HANDBOOK OPERATING INSTRUCTIONS

RADIO TRANSMITTING SETS

AN/ART-13 AN/ART-13B

AND

NAVY MODELS

ATC ATC-1



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Destruction of Abandoned Materiel in the Combat Zone

In case it should become necessary to prevent the capture of this equipment and when ordered to do so, DESTROY IT SO THAT NO PART OF IT CAN BE SALVAGED, RECOGNIZED, OR USED BY THE ENEMY. BURN ALL PAPERS AND BOOKS.

Means:

- 1. Explosives, when provided.
- Explosives, when provided.
 Hammers, axes, sledges, machetes, or whatever heavy object is readily available.
 Burning by means of incendiaries such as gasoline, oil, paper, or wood.
- Grenades and shots from available arms.
- 5. Burying all debris or disposing of it in streams or other bodies of water, where possible and when time permits.

Procedure:-

- 1. Obliterate all identifying marks. Destroy nameplates and circuit labels.

- Demolish all panels, castings, switch- and instrument boards.
 Destroy all controls, switches, relays, connections, and meters.
 Rip out all wiring and cut interconnections of electrical equipment. Smash gas, oil,
- and water-cooling systems in gas-engine generators, etc.

 5. Smash every electrical or mechanical part, whether rotating, moving, or fixed.

 6. Break up all operating instruments such as keys, phones, microphones, etc.

 7. Destroy all classes of carrying cases, straps, containers, etc.

- 8. Bury or scatter all debris.

DESTROY EVERYTHING!



Unsatisfactory Report

For U. S. Army Air Force Personnel:

In the event of malfunctioning, unsatisfactory design, or unsatisfactory installation of any of the component units of this equipment, or if the material contained in this book is considered inadequate or erroneous, an Unsatisfactory Report, AAF Form No. 54, or a report in similar form, shall be submitted in accordance with the provisions of Army Air Force Regulation No. 15-54, listing:

- Station and organization.
 Nameplate data (type number or complete nomenclature if nameplate is not attached to the equipment).
- 3. Date and nature of failure.
- 4. Radio model and serial number.
- 5. Remedy used or proposed to prevent recurrence.
 6. Handbook errors or inadequacies, if applicable.

For U. S. Navy Personnel:

Report of failure of any part of this equipment during its guaranteed life shall be made on Form N.Aer.4112, "Report of Unsatisfactory or Defective Material," or a report in similar form, and forwarded in accordance with the latest instructions of the Bureau of Aeronautics. In addition to other distribution required, one copy shall be furnished to the inspector of Naval Materiel (location to be specified) and the Bureau of Ships. Such reports of failure shall include:

- Reporting activity.
 Nameplate data.
 Date placed in service.
 Part which failed.

- Nature and cause of failure.
 Replacement needed (yes—no).
 Remedy used or proposed to prevent recurrence.

For British Personnel:

Form 1022 procedure shall be used when reporting failure of radio equipment.

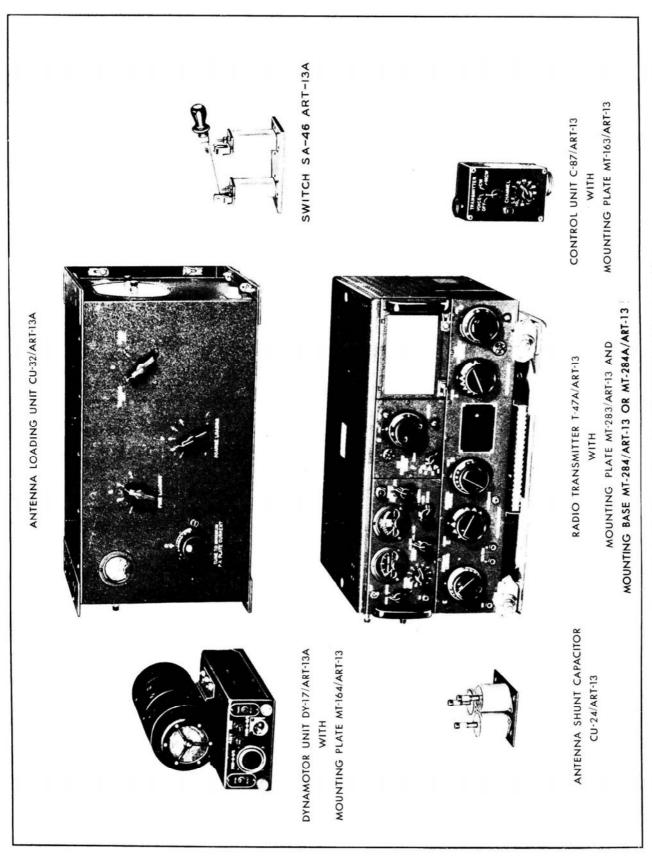


Figure 1-1-Radio Transmitting Set AN/ART-13A—Major Assemblies

WARNING

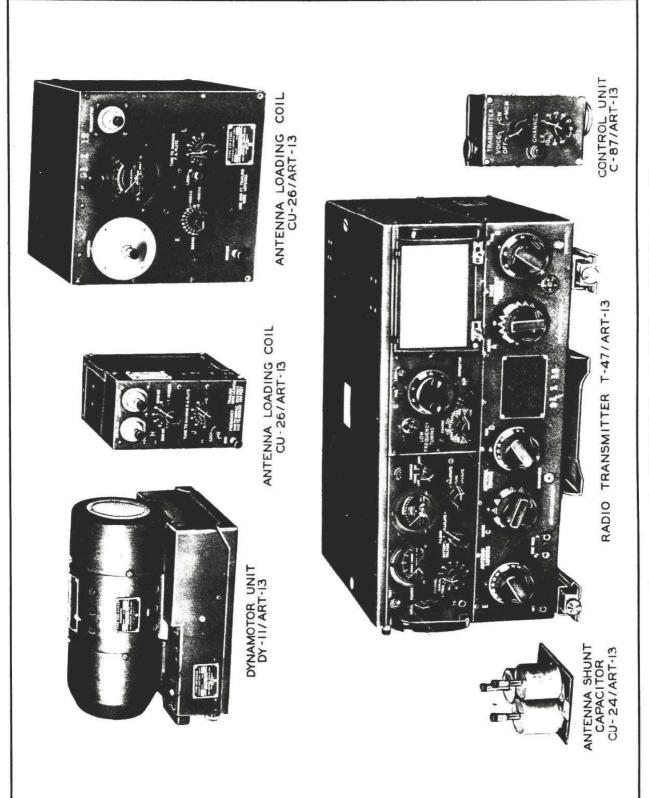
Operation of this equipment involves the use of high voltages which are dangerous to life. Operating personnel must observe safety regulations. Whenever the dynamotor is running, there is a potential of 1150 volts applied to the plate caps on top of the tubes.

SECTION I GENERAL DESCRIPTION

1. GENERAL.

- a. The contents of this handbook apply to Radio Transmitting Set AN/ART-13A (fig. 1-1); to an earlier model of the same general type of equipment, identified as Radio Transmitting Set AN/ART-13 (also known and employed by the U.S. Navy as Navy Model ATC or ATC-1) shown in figure 1-2; and to the latest model, designated AN/ART-13B, which uses all of the components included with the above two assemblies, excepting their low frequency oscillator units, O-16/ART-13 or O-17/ART-13A. This new model (see fig. 1-2A) includes the CDA-T, 24 frequency Crystal Oscillator Unit, which replaces the original low frequency units. Use of the CDA-T Unit does not interfere with the original VFO functioning of the Transmitter excepting in the frequency range.
- b. This equipment includes transmitting components which provide radio communication by voice, modulated continuous wave telegraphy (MCW), or continuous wave telegraphy (CW).
- c. Transmission frequencies in the ranges 200 to 1500 kilocycles (when the low frequency oscillator is installed) and 2000 to 18,000 kilocycles can be obtained with this equipment, using a variable frequency oscillator. With the CDA-T Crystal Control Unit installed, replacing the VFO low frequency oscillator unit, 24 crystals provide a frequency range of 300 to 500 kilocycles, and 2,000 to 18,000 kilocycles in addition to 10 frequencies provided by the variable high frequency oscillator.
- d. Operation is possible into either fixed or trailing wire antennas. Selection of the desired antenna is accomplished either by means of switches incorporated in low frequency tuning equipment or by means of Switch SA-13/U when low frequency equipment is not used in the installation. This arrangement allows both transmission and reception on the same antenna for all frequencies and is used in Army installations.

- e. Using VFO operation, shifting from one transmission frequency to another can be accomplished by the conventional method of "hand positioning" the controls or by using the built-in automatic shifting mechanism known as the "Autotune". Autotune operation (either local or remote) is available for eleven preselected frequencies, one of which may be in the range 200 to 1500 kilocycles and the other ten in the range 2000 to 18,100 kilocycles. For crystal operation, the low frequency VFO unit is removed, and the CDA-T installed in its place. Autotone operation may be used in the same manner as with the VFO, excepting that for each of the first 10 channel positions, two crystal frequencies are available. In the low frequency channel position, four low frequency crystals are available, selected by a switch on the CDA-T Unit,
- f. Remote operation of the equipment is possible by means of a remote control unit furnished. The equipment may be turned off or on, the type of emission selected, the channel may be selected and the transmitter keyed or modulated from the remote control unit. Operation from the remote position is possible only when the "LOCAL-REMOTE" switch on the transmitter is in the "REMOTE" position. This switch can be operated only from the transmitter panel. However, the transmitter may be keyed or modulated (according to the type of emission selected at the controlling position) from either position any time that the transmitter is on. The red pilot light indicates which position at all times except when the autotune is cycling.
- g. When this equipment is in use at altitudes over 20,000 to 25,000 feet, the power is automatically reduced about one-half to prevent arcing or flashover. Satisfactory operation can then be obtained for altitudes up to 40,000 feet.



Figure, 1-2—Radio Transmitting Set AN/ART-13 (Navy Model ATC or ATC-1) Major Assemblies

b. A 28 volt direct current power source is required for operation of the equipment. Voltages as low as 24 volts may be used but reduction in power output and increased time for Autotune operation will result. The dynamotor unit contains a dynamotor machine that supplies the intermediate and high voltage power requirements of the transmitter. The following table shows typical power input requirements for a supply voltage of 28 volts direct current.

	Frequency	Power In	out (Watts)
Type of Emission Used	(mega- cycles)	Full Power	*Reduced Power
CW	3.0	780	700
CW (Standby)	3.0	560	560
MCW	3.0	925	760
MCW (Standby)	3.0	560	560
VOICE (90% Mod.)	3.0	925	760
VOICE (Standby)	3.0	250	250

^{*}Reduced power input operating at altitudes higher than 20,000 to 25,000 feet results from automatic reduction in high voltage to prevent flashover.

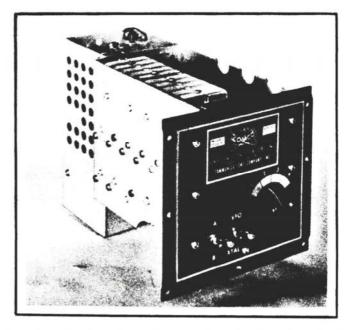


Figure 1-8A—Oscillator CDA-T

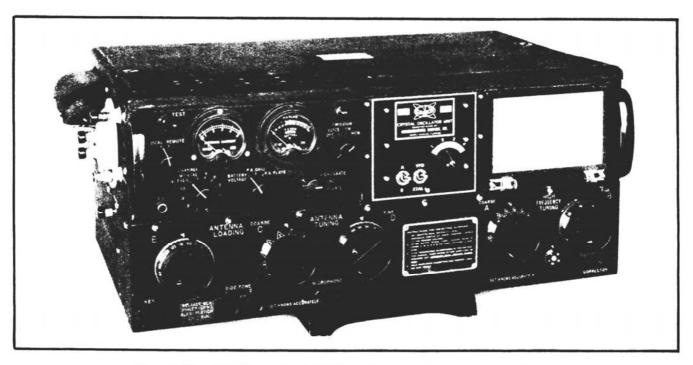


Figure 1-2A—Radio Transmitter T-47A/ART-13 with Oscillator CDA-T Installed



2. EQUIPMENT SUPPLIED.

The table below lists the equipment supplied for Radio Transmitting Set AN/ART-13A. Refer to the

table of interchangeability in paragraph 4 of this section when parts of Radio Transmitting Set AN/ART-13 (Navy Model ATC or ATC-1) are supplied.

Quantity per Equipment	Name of Unit	Army Type Designation	Overall Dimensions (in inches) Length Height Depth	Weight (lbs.)
1	Radio Transmitter (with Panel MX-128/ART-13 installed, Mounting Plate MT-283/ART-13 attached and Mounting Base MT-284/ART-13 or MT-284A/ART-13 and includes plugs, tubes and crystals)	T-47A/ART-13	23.5 x 11.5 x 14.8	62.5
1	Oscillator (includes tube)	CDA-T	5.4 x 6.4 x 9.7	4.0
1	Mounting Plate (attached to Radio Transmitter T-47A/ART-13)	MT-283/ART-13	20.9 x 1.5 x 13.2	1.6
1	Mounting Base (for Radio Transmitter T-47A/ART-13)	MT-284/ART-13	20.8 x 2.5 x 15.0	3.0
	(Deleted)	or MT-284A/ART-13		
1	Dynamotor Unit (with CQR machine and mounted on Mounting Plate MT-164/ART-13; includes plugs)	DY-17/ART-13A	13.2 x 8.8 x 7.2	28.0
	Dynamotor Unit (with CG machine and mounted on Mounting Plate MT-164/ART-13; includes plugs)	DY-17/ART-13A		
1	Mounting Plate (for Dynamotor Unit DY-17/ART-13A	MT-164/ART-13	11.2 x 1.3 x 7.0	1.1
1	Antenna Loading Unit (mounted on Mounting Base MT-198/ART-13A; includes plugs)	CU-32/ART-13A	25.7 x 13.9 x 13.0	28.3
1	Mounting Base (for Antenna Loading Unit CU-32/ART-13A)	MT-198/ART-13A	22.6 x 2.8 x 11.4	3.2
1	Control Unit (mounted on Mounting Plate MT-163/ART-13; includes plug)	C-87/ART-13	3.6 x 8.0 x 3.2	1.5
1	Mounting Plate (for Control Unit C-87/ART-13)	MT-163/ART-13	5.3 x 3.6 x 0.3	0.11
1	Antenna Shunt Capacitor	CU-24/ART-13	5.0 x 3.9 x 4.2	1.75
1	Switch	SA-46/ART-13A	6.0 x 4.0 x 2.0	0.87
1	Switch	SA-13/U	9.5 x 9.3 x 4.4	2.5
1	Plug (cannon type NK-27-21C 11/16")	U-6/U	2.1 x 1.7 x 1.7	0.19
1	Plug (cannon type FK-10-21C 9/16")	U-7/U	2.4 x 2.0 x 2.0	0.25
1	Plug (cannon type RNK-27-22C 11/16")	U-8/U	2.0 x 1.8 x 1.8	0.25
1	Plug (cannon type RFK-10-24C %16")	U-9/U	1.9 x 2.6 x 2.1	0.32
1	Plug (cannon type GK-C3-23C 1/2")	U-10/U	1.9 x 1.9 x 1.3	0.25
1	Plug (cannon type RWK-C3-22C ⁷ / ₁₆ ")	U-11/U	1.9 x 1.1 x 1.1	0.12
1	Plug (cannon type WK-C3-23C 7/16")	U-1 . J	2.0 x 1.5 x 1.1	0.13
1	Handbook of Operating Instructions for Radio Transmit-		11.0 x 8.5 x 0.5	0.7
	ting Set AN/ART-13, AN/ART-13A and Navy Model ATC and ATC-1		Total weight (cables not included)	140.54

3. EQUIPMENT REQUIRED BUT NOT SUPPLIED.

Quantity per Equipment	Name of Unit	Army Type Designation	Navy Type Designation	Required Characteristics
1	Microphone (with Cord CD- 318 or CD-508) or Micro- phone	1		Carbon with 40 ohms internal resistance
1	Key	J-37		
1	Headset	HS-33 or HS-38		300 ohm impedance
1	Antenna Equipment	AN/ARA-4		Fixed 30 to 65 feet long, and/or Trailing to 200 feet long
1	Cables and Wiring			Open wiring (for cable and wiring requirements see figure 5-15)

4. INTERCHANGEABILITY OF RADIO TRANSMITTING SET AN/ART-13A AND SIMILAR EQUIPMENTS.

The following table furnishes mechanical and elec-

trical interchangeability information for Radio Transmitting Set AN/ART-13A, AN/ART-13 and Navy Models ATC and ATC-1. Refer to paragraph 5 of this section for more detailed information.

Name of Unit	AN Type Designation	Navy Type Designation	British Ref. Number	Mechanically Interchangeable with	Electrically Interchangeable with
Radio Transmitter	T-47/ART-13 (M2- with 8Q-2 CFI Unit; M1- with interlock switch)		None	T-47A/ART-13 When MT-283/ART-13 is attached	T-47/ART-13
Radio Transmitter	T-47A/ART-13	None	11OD/878	T-47/ART-13 When MT-283/ART-13 is attached	T-47/ART-13 (M2 with 8Q-2 CFI Unit; M1 with interlock switch
Mounting Base	MT-161/ART-13	Part of - 52286	None	Nothing	Not applicable
Mounting Plate plus	MT-283/ART-13 plus			Bottom cover and two shock Mounts on T-	Not applicable
Mounting Base	MT-284 ART-13 or MT-284A ART-13	None	Part of 110D/878	47/ART-13 plus 2 Mounting Bases MT- 161/ART-13	
Oscillator	0-16/ART-13	Part of 52286	None	O-17/ART-13A or CDA-T or MX- 128/ART-13	O-17/ART-13A or CDA-T except for frequency coverage
Oscillator	0-17/ART-13A	None	110V/21	O-16/ART-13 or CDA-T or MX- 128/ART-13	O-16/ART-13 or CDA-T except for frequency coverage
Oscillator	CDA-T	None	None	O-17/ART-13A or O-16/ART-13 or MX-128/ART-13	O-17/ART-13A or O-16/ART-13 except for frequency coverage
Panel	MX-128/ART-13	Part of — 52286	None	O-16/ART-13 or O-17/ART-13A or CDA-T	O-16/ART-13, O-17/ ART-13A or CDA-T Transmitter operable in H.F. range without any of the above
Dynamotor Unit	DY-11/ART-13	-23333 or -23333-A plus 21931	None	DY-12/ART-13, or DY-12A/ART-13A or DY-17/ART-13A (Height of DY-17/ART-13A is 3/4" greater)	DY-17/ART-13A

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Name of Unit	AN Type Designation	Navy Type Designation	British Ref. Number	Mechanically Interchangeable with	Electrically Interchangeable with
Dynamotor Unit	DY-12/ART-13	-23333 or -23333-A plus -21932	None	DY-11/ART-13, DY-12A/ART-13, or DY-17/ART-13A (Height of DY-17/ ART-13A is 3/4" great- er)	DY-17/ART-13A
Dynamotor Unit	DY-12A/ART-13	-23335 or -23333-A plus -21932	None	DY-11/ART-13, DY-12/ART-13, or DY-17/ART-13A (Height of DY-17/ ART-13A is 3/4" great- er)	DY-11/ART-13, DY-12/ART-13, or DY-17/ART-13A (Height of DY-17/ ART-13A is 3/4" great- er)
Dynamotor Unit	DY-17/ART-13A (Height of DY-17/ ART-13A is 3/4" greater)	None	110K/1448	DY-11/ART-13, DY-12/ART-13, or DY-12A/ART-13	DY-11/ART-13, DY-12/ART-13, or DY-12A/ART-13
Mounting Plate (for dynamotor unit)	MT-164/ART-13	Part of -23333 or -23333-A	Part of 110K/ 1448	Nothing	Not Applicable
Antenna Loading Unit	CU-32/ART-13A	None	110B/363	Nothing	CU-25/ART-13 plus SA-22/ART-13
Mounting Base (for Antenna Loading Unit CU-32/ART-13A)		None	Part of 110B/363	Nothing	Not Applicable
Antenna Loading Coil	CU-25/ART-13	47281	None	Nothing	CU-32/ART-13A
plus Antenna Switching Unit	SA-22/ART-13	None	110F/922	Nothing	
Antenna Loading Coil	CU-26/ART-13	-47282	None	Nothing	Nothing
Mounting Plate (For Antenna Loading Coil CU-26/ART-13)	MT-162/ART-13	Part of -47282	None	Nothing	Not Applicable
Mounting (for Antenna Switching Unit SA-22/ART-13	FT-142	None	Part of 110F/922	FT-142-A	Not Applicable
Antenna Shunt Capacitor	CU-24/ART-13	481628	110B/362	Nothing	Nothing
Control Unit	C-87/ART-13	23330	110L/133	Nothing	Not Applicable
Mounting Plate (for control unit)	MT-163/ART-13	Part of 23330	Part of 110L/133	Nothing	Not Applicable
Switch	SA-46/ART-13A	None	None	Nothing	Nothing
Switch	SA-13/U	None	None	Nothing	Nothing
Plug	U-6/U	None	None	Nothing	Nothing
Plug	U-7/U	None	None	Nothing	Nothing
Plug	U-8/U	None	None	Nothing	Nothing
Plug	U-9/U	None	None	Nothing	Nothing
Plug	U-10/U	None	None	Nothing	Nothing
Plug	U-11/U	None	None	Nothing	Nothing
Plug	U-12/U	None	None	Nothing	Nothing

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5. DESCRIPTION OF MAJOR ASSEMBLIES.

The following discussion of the major assemblies of Radio Transmitting Set AN/ART-13A, AN/ART-13 and Navy Models ATC and ATC-1 is to aid in event

that a mixed group of assemblies are used for a particular installation. (Refer to pars. 2 and 4, this section.)

a. RADIO TRANSMITTERS.

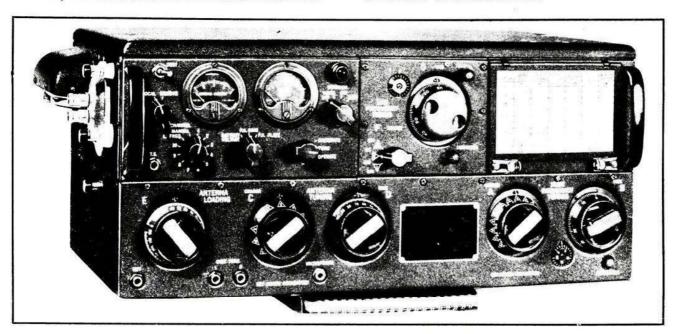


Figure 1-3—Radio Transmitter T-47A/ART-13 with Oscillator 0-17/ART-13A Installed

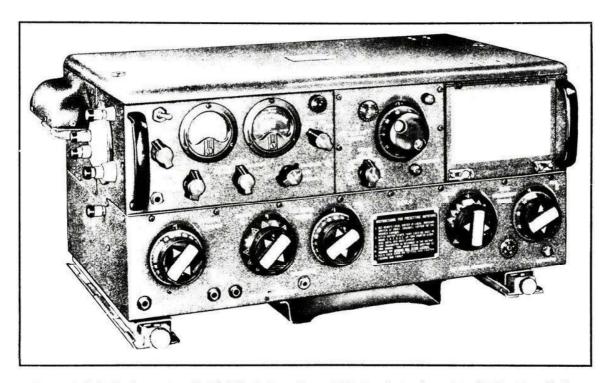
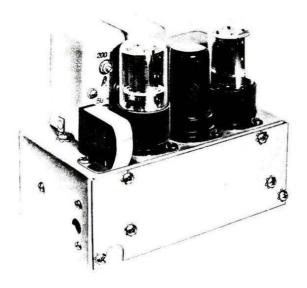


Figure 1-4-Radio Transmitter T-47/ART-13 (Navy Type -52286) with Oscillator 0-16/ART-13 Installed

(1) GENERAL.—Sub-assembly type of construction has been used extensively in the radio transmitter. This type of construction greatly simplifies the removal of component parts without major disassembly of the unit. Vacuum tubes are accessible by removal of the top cover of the transmitter case.

The transmitter proper contains a high frequency oscillator which covers the frequency range 1000 to 1500 kilocycles. A band switch, control "A", connects the proper multiplier circuits to provide operation of the complete transmitter over the frequency range 2000 to 18,100 kilocycles. An internal crystal oscillator permits calibration of the master oscillator at points designated on the calibration tables. The antenna tuning network is incorporated in the transmitter for operation into aircraft antennas. When the radio transmitter is operated in the radio frequency range 3000 to 18,100 kilocycles, the antenna tuning network incorporated in the transmitter is capable of tuning and delivering power into fixed antennas which are between 17 and 65 feet in length. For operation between 2000 and 3000 kilocycles external shunt capacitors may be required in addition to the antenna tuning network in the transmitter to tune and deliver power to fixed aircraft antennas which are between 20 and 60 feet in length. Instructions describing correct use of the shunt capacitor unit are given in section II, paragraph 7b(2) (ii).

The mountings for the transmitters are shown in figures 2-6 and 2-7. Interchangeability of the mountings is given in the table of section I, paragraph 4.



Note

If this unit is installed, use calibration tables 5-1, 5-2 and 5-3 or tables in Calibration Book for Radio Transmitting Set AN/ART-13A (T.O. No. 16-30ART13-9). (If this unit is installed when Oscillator O-16/ART-13 is used, refer to par. 6A, section V for instructions for calibrating the oscillator.)

Figure 1-5-MCW-CFI 8Q-2 Unit

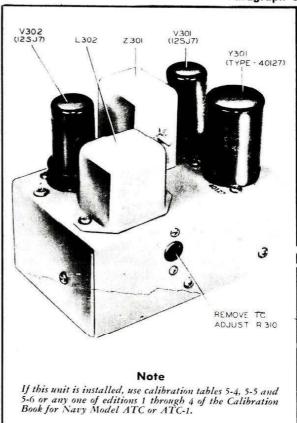


Figure 1-6-MCW-CFI 8Q-1 Unit

Two types of crystal oscillators have been supplied with the transmitters. The MCW-CFI 8Q-1 unit is the original design. (See fig. 1-6.) The later design is known as the 8Q-2 unit. (See fig. 1-5.) The 8Q-2 unit has louder signals at the check points and the check points occur every 50 kilocycles on the master oscillator which spaces them evenly in the calibration tables for a particular band. The distance between them varies with different multiplication factors selected by the band change switch. Different calibration tables are furnished for the different MCW-CFI units in order to indicate the different check points. The figures in the tables are the same regardless of which MCW-CFI unit is used but the position of the check points varies. The units are interchangeable between transmitters providing the proper calibration table is used. Calibration tables 5-1, 5-2, and 5-3 are to be used only when the radio transmitter has an 8Q-2 installed.*
(When the radio transmitter has an Oscillator O-16/ART-13 and MCW-CFI 8Q-2 unit installed, refer to par. 6A, section V for calibration instructions for the oscillator.) Calibration tables 5-4, 5-5, and 5-6 are to be used only when the radio transmitter has an 8Q-1 installed.* Determine which is installed before performing adjustments using calibration tables. A

*Calibration tables 5-1 and 5-2 are the same tables which are in "Calibration Book for Radio Transmitting Set AN/ART-13A (T.O. No. 16-30ART13-9)." Calibration tables 5-5 and 5-6 are the same tables which are in editions 1 through 4 for Navy Model ATC.

visual inspection of the radio transmitter with the top cover removed and comparison with figures 1-5 and 1-6 will be sufficient to tell if an 8Q-2 or an 8Q-1 is installed. Use calibration tables accordingly.

- (2) RADIO TRANSMITTER T-47A/ART-13. (See Figure 1-3).—These transmitters are a redesign of Radio Transmitter T-47/ART-13. Several changes were made to the circuit including addition of an interlock switch and some components were changed. All of these transmitters are shipped from the factory with an 8Q-2 installed and with Panel MX-128/ART-13 installed in place of low frequency oscillators.
- (3) RADIO TRANSMITTER T-47/ART-13. (See Figure 1-4).—These transmitters are identical to those furnished with Navy Model ATC and ATC-1 equipment. Early production was equipped with MCW-CFI unit 8Q-1. 8Q-2 was incorporated during production. Some transmitters already delivered before this unit was incorporated were modified by modification M2. That modification replaced the 8Q-1 with an 8Q-2 and replaced the calibration book to conform to the changed unit. Transmitters with this modification were marked "M2" beside the nameplate. Modification M1 consisted of the addition of an interlock switch which shuts off high voltage from the radio transmitter when the top cover is removed.

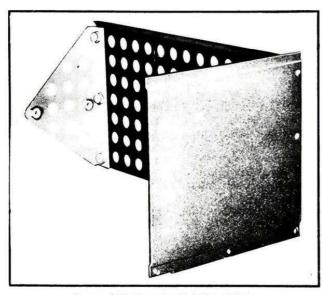


figure 1-7-Panel MX-128/ART-13

(4) RADIO TRANSMITTERS T-47/ART-13, T-47/ART-13A with CDA-T Crystal Oscillator (See Figure 1-2A). This transmitter includes the original features of each model, excepting that the low frequency unit has been removed and the CDA-T installed in its place. The CDA-T permits operation in the 2000 to 18,000 kilocycles range (crystal controlled and VFO) and with four crystal controlled frequencies, in the low frequency range of 300 to 500 kilocycles.

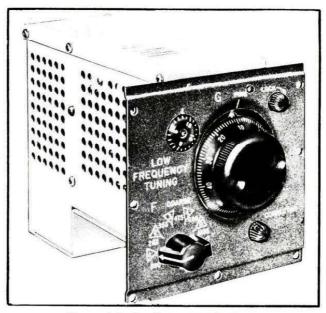


Figure 1-8-Oscillator 0-16/ART-13

b. LOW FREQUENCY OSCILLATORS.

- (1) GENERAL.—Low frequency oscillators are available for extending the frequency range of the transmitter below 2000 kilocycles. These oscillators are installed in the transmitter proper and obtain their power from the circuits in the transmitter. The front panel of the oscillator, which contains the controls for it, forms a part of the front panel of the transmitter. Check points for the calibration of the low frequency oscillators are obtained from the same MCW-CFI unit that provides check point for the high frequency oscillator in the transmitter. Therefore, care must be exercised in the use of calibration tables to be sure that the proper table is used with the MCW-CFI unit in the transmitter.
- (2) OSCILLATOR O-16/ART-13. Figure 1-8 covers the frequency range 200 to 1500 kilocycles. Calibration table 5-3 is for this oscillator with 8Q-2 and calibration table 5-6 is for this oscillator with 8Q-1. The tables in ATC or ATC-1 calibration books, editions 1 through 4 are for this oscillator with 8Q-1. Refer to paragraph 6A, section V for calibration instructions for this oscillator when the MCW-CFI 8Q-2 unit is used.
- (3) OSCILLATOR O-17/ART-13A. Oscillator O-17/ART-13A covers the frequency range 200 to 600 kilocycles. Calibration table 5-1 is for this oscillator with 8Q-2 and calibration table 5-4 is for this oscillator with 8Q-1. The tables in the Calibration Book for Radio Transmitting Set AN/ART-13A are for this oscillator with 8Q-2.
- (4) PANEL MX-128/ART-13. Figure 1-7 is a blank panel with a resistor to be installed in the transmitter when no low frequency operation is desired. It fills the part of the transmitter panel used for the low frequency oscillator controls and provides the necessary

resistor to replace the filament circuit of the low frequency oscillator tube.

c. ANTENNA LOADING COILS AND SWITCH-ING UNIT.

(1) GENERAL.—When transmission frequencies in the 200 to 1500 kilocycle range are selected, the antenna tuning and loading circuits, built into the transmitter, are not used and the output of the power amplifier is automatically connected to the loading circuits in external loading coils. Controls are provided on the front panel of the loading coils to permit adjustment of inductive reactance and coupling in order to tune and deliver power to the antenna. A radio frequency ammeter is used in some loading coils to indicate antenna current. Selection of either the trailing wire or fixed aircraft antenna is accomplished by means of a switch knob located on the control panel. Terminal posts facilitate connections to a fixed aircraft antenna, trailing wire antenna, ground (structure of aircraft), the high frequency antenna terminal of the transmitter, the low frequency terminal of the transmitter, and to a 28 volt supply source which is controlled by the output circuit selecting relay (K-105) in the transmitter. The 28 volt d-c source is "keyed" by microphone or telegraph key and actuates a relay in the loading unit. This relay is actuated only when control "A" of the transmitter is set on position 13. This low frequency relay connects the aircraft antenna to the "LOAD COIL" terminal of the transmitter thru the circuits of the loading unit when the key or microphone button is pressed. Thus, automatic selection of the correct antenna tuning and loading system is accomplished for either high or low frequency operation when the transmitter controls are being set to the desired transmission frequency. When both the trailing wire antenna and the fixed antenna are connected to the loading unit, only one or the other is actually in use for any transmission frequency. The idle antenna is, at all times, automatically connected to a terminal post on the exterior of the control unit. This terminal (labelled "PLUG PL-259") may be connected to a dissociated receiver.

- (2) ANTENNA LOADING UNIT CU-32/ART-13-A. (See Fig. 1-9).—The antenna tuning network, low frequency relay, and antenna selector switch are all incorporated in this unit. The network is capable of tuning any antenna (fixed or trailing) 30 to 200 feet in length throughout the range 200 to 600 kilocycles.
- (3) ANTENNA LOADING COIL CU-25/ART-13 (See Fig. 1-10).—This unit contains a tuning network capable of tuning a trailing wire antenna 200 feet long throughout the range 200 to 600 kilocycles. It will, in addition, tune fixed antennas in the upper portion of that frequency range. Long antennas can be tuned to lower frequencies than short ones.
- (4) ANTENNA LOADING COIL CU-26/ART-13 (See Fig. 1-11).—This unit contains a tuning network capable of tuning, trailing wire antennas 150 feet long

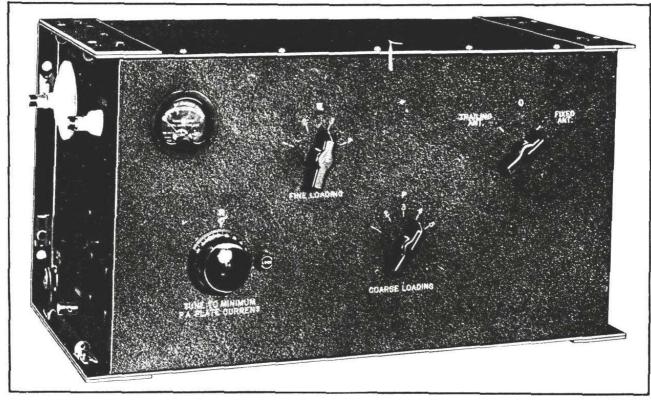


Figure 1-9-Antenna Loading Unit CU-32/ART-13A

throughout the frequency range 1100 to 1500 kilocycles and 200 feet long throughout the frequency range 500 to 1100 kilocycles. In addition, it may be used for tuning long, fixed antennas in a restricted frequency range. Note that this loading coil is not applicable if Oscillator O-17/ART-13A is used.



Figure 1-10—Antenna Loading Coil CU-25/ART-13 (Navy Type -47281)

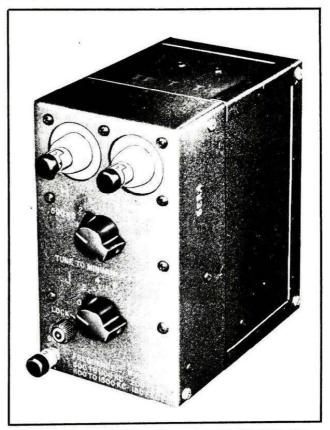


Figure 1-11—Antenna Loading Coil CU-26/ART-13 (Navy Type -47282)

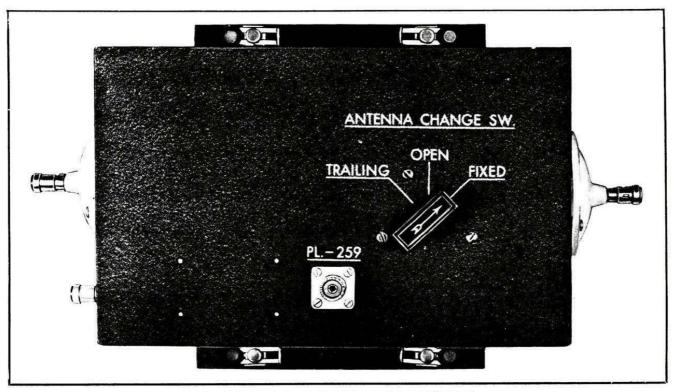


Figure 1-12—Antenna Switching Unit SA-22/ART-13

- (5) ANTENNA SWITCHING UNIT SA-22/A-RT-13 (See Fig. 1-12.)—This unit contains the antenna selector switch and the low frequency relay required for use with Antenna Loading Coil CU-25/ART-13 or CU-26/ART-13. When low frequency equipment is not included in the installation, Switch SA-13/U is used for the antenna changeover switch.
- (6) MOUNTINGS.—Mounting Base MT-198/-ART-13A (fig. 2-10) is supplied for mounting Antenna Loading Unit CU-32/ART-13A. Mounting plate MT-162/ART-13 (fig. 2-11) is supplied for mounting Antenna Loading Coil CU-26/ART-13. Mounting FT-142 is supplied for mounting Antenna Switching Unit SA-22/ART-13.

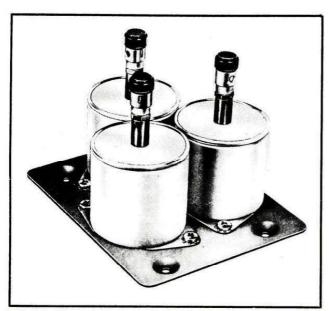


Figure 1-13—Antenna Shunt Capacitor CU-24/ART-13 (Navy Type -481628)

d. ANTENNA SHUNT CAPACITOR AND SWITCH.

- (1) Antenna Shunt Capacitor CU-24/ART-13 (see fig. 1-13) is supplied for use with the transmitter. It is used whenever required (see sec. II, par. 7b(2) (jj)), to properly tune and deliver power to fixed aircraft antennas (20 to 60 feet long) operating in the 2000 to 3000 kilocycle range of transmission frequencies. The shunt capacitor unit consists of three individual 25 micromicrofarad capacitors mounted on a plate which serves as a common connection to one terminal of each unit. Each capacitor may be connected individually or collectively to the antenna system by means of the terminal at the top, thus providing capacitance values of 25, 50, or 75 micromicrofarads.
- (2) Mounting holes are provided in the base of the antenna shunt capacitor to facilitate attachment to the aircraft structure.

(3) Switch SA-46/ART-13A (see fig. 1-1) is used to connect Antenna Shunt Capacitor CU-24/ART-13 to the transmitter output circuit ("COND" binding post) when it is required.

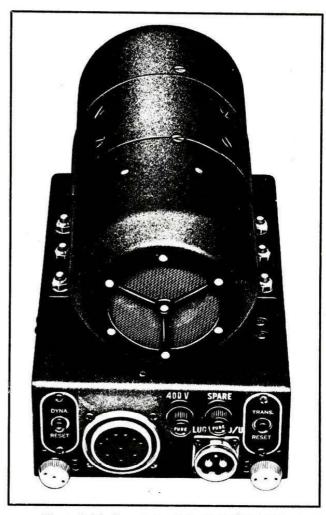


Figure 1-14-Dynamotor Unit DY-17/ART-13A

e. DYNAMOTOR POWER UNIT.

- (1) Any one of the following dynamotor power units may be used with this equipment:
- (a) Dynamotor Unit DY-17/ART-13A (fig. 1-14).
- (b) Dynamotor Unit DY-12/ART-13 (Navy Model -23333 Power Unit, with Dynamotor -21932).
- (c) Dynamotor Unit DY-12A/ART-13 (Navy Model -23333 or -23333-A plus -21932).
- (d) Dynamotor Unit DY-11/ART-13 (Navy Model -23333 Power Unit, with Dynamotor -21931). (See fig. 1-15.)

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(2) The dynamotor unit is the power source used for operation of the radio transmitter. It contains a dynamotor machine, barometric switch, control and overload relays, filters and fuse for overload protection of the plate and screen voltage supply circuits of the low power stages. A 28 volt direct current power source is required for operation of the dynamotor machine as well as for the circuits in the transmitter. Voltages as low as 24 volts d-c may be used but reduction in power output and increased time required for Autotune operation will result.

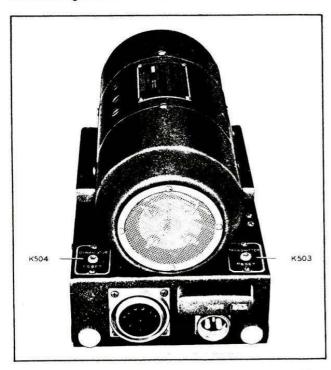


Figure 1-15—Dynamotor Unit DY-11/ART-13 (Navy Type -23333 Power Unit, with Dynamotor -21931)

f. REMOTE CONTROL UNIT

- (1) Control Unit C-87/ART-13 (see fig. 1-16) provides a remote control for operation of the transmitter using a variable frequency oscillator unit. By means of the two knobs located on the face of the control unit, the following items may be controlled:
 - (a) Turn power supply on or off.
- (b) Select type of emission (CW, MCW or VOICE).
- (c) Select any one of 11 preset transmission frequencies.
- (2) Control Unit C-87/ART-13, modified by the addition of an "A-B" channel switch and used with a transmitter employing the CDA-T Crystal Oscillator permits remote control of functions (a) and (b) as outlined above; and allows selection of any one of 20 frequencies in the range of 2000 to 18,000 kilocycles; and one frequency in the range of 300 to 500 kilocycles.



Figure 1-16—Control Unit C-87/ART-13 (Navy Type -23330)

(3) For installations having standardized control panels, Control Panel C-405/A (see fig. 1-17) or C-405A/A replaces and performs all the functions (except key) of Control Unit C-87/ART-13. Control Panel C-405A/A differs from the C-405/A Model in that it has an edge-lighted lucite panel and two panel lamps. It is mechanically and electrically interchangeable with the C-405/A except that it has an additional wire to bring power to the lamps.

Note

Transfer of control from the transmitter panel to the remote control unit is possible only at the transmitter.



Figure 1-17-Control Panel C-405/A or C-405A/A

g. ACCESSORIES.—Complete sets of Phillips and Bristo wrenches are supplied with the equipment. They are fastened beneath the cover of the transmitter or externally, under the plugs on those Radio Transmitters T-47/ART-13 with the MCW-CFI 8O-2 Unit installed).

Revised 15 December 1956



SECTION II

INSTALLATION AND ADJUSTMENT

1. UNCRATING RADIO TRANSMITTING SET AN/ART-13A.

Open packing crates as outlined. Use care to avoid damage and search all packing material to be sure that small packages are not overlooked. All crates are marked with arrows to indicate the upright position. Cut and remove banding around crates.

a. TRANSMITTER CRATE.-Keep in upright position and remove cover of crate. Take off waterproof and foil bags. Remove cloth bags containing silica gel. Remove banding frame (holds transmitter to bottom of crate) by taking off 4 bolts. Lift transmitter out of

b. DYNAMOTOR CRATE.-Keep in upright position and remove cover of crate. Remove waterproof and foil bags. Remove cloth bags containing silica gel. Remove 2 clamps holding dynamotor to base and lift out the dynamotor. Remove Kimpak wrapper.

c. CONTROL UNIT .- Remove cover of crate. Lift out cardboard carton containing the unit. Remove unit

from carton and take off foil bag and Kimpak wrapper.

d. ANTENNA LOADING UNIT.-Remove cover of crate. Take off waterproof bag and Kimpak wrapper. Remove foil and waterproof bags. Open cardboard carton and take out cloth bags, containing Silica gel. Lift the unit out and remove Kimpak wrapper.

e. ANTENNA SHUNT CAPACITOR.-Remove cover of crate. Lift out cardboard carton containing the unit. Remove unit from carton and take off foil bag and Kimpak wrapper.

2. PREPARATION FOR INSTALLATION.

The equipment should be checked before installation to make sure that all parts are operating properly and that no damage occurred during shipment which might cause early failure in service.

a. MECHANICAL INSPECTION.(1) TRANSMITTER.

(a) Rotate all switches on the face of the transmitter to see that they operate freely and the knobs are fastened tightly to their shafts.

(b) Inspect the terminals at the left end of the transmitter for proper spring action and broken parts.

(c) Inspect the case and mountings for dents or bent portions which might interfere with operation.

(d) Remove the top cover of the transmitter

1. Make sure the crystal is in the proper position and clamped securely in place. (See fig. 2-1 when MCW-CFI 8Q-2 Unit is used; see fig. 2-2 when MCW-CFI 8Q-1 Unit is used).

2. Make sure all tubes are mounted securely in the sockets and that tubes JAN-811, JAN-1625, and JAN-837 are locked properly. (See fig. 2-1 or 2-2.)

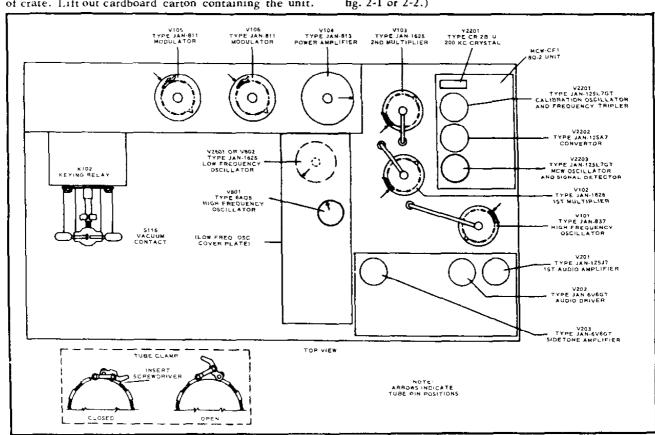


Figure 2-1—Radio Transmitter T-47A/ART-13 and Oscillator O-17/ART-13A (or Oscillators O-16/ART-13 or CDA-T)—Tube Placement Diagram

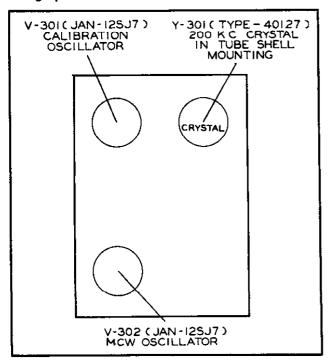


Figure 2-2—MCW-CFI 8Q-1 Unit—Tube Placement Diagram (see fig. 2-1)

- 3. Make sure the plate connector caps on all tubes employing them are in the proper position and firm.
- 4. If the low frequency oscillator is installed, remove the cover from the low frequency oscillator and check the tube for proper seating in the socket, and firm and proper connection of the plate cap. Replace the cover.
- 5. Check the vacuum switch to be sure it is not broken.
 - (e) Replace the top cover of the transmitter.
 - (2) DYNAMOTOR UNIT.
- (a) Check the fuse and spare fuse to see that they are serviceable.
- (b) Remove the bottom plate and check all relays and stand off insulators for broken parts.
- (c) Check the relays by closing them by hand to see that they do not bind and are not bent.
- (d) Make sure all circuit elements are mounted securely. Replace the bottom cover.
- (e) Make sure the end cover mounting bolts are tight.
 - (3) CONTROL UNIT.
- (a) Turn the switches to make sure they function properly and the knobs are not loose on the shafts.
- (b) Press the key to check the spring action and make sure the mechanism does not bind and stick.

- (c) Remove the back plate and inspect the switches for broken parts. Replace the plate.
 - (4) ANTENNA SHUNT CAPACITOR.
- (a) Inspect to see that no parts are bent or broken.
 - (b) Check spring action of all terminals.

(5) ANTENNA LOADING UNIT CU-32/ART-13-A.

- (a) Turn the switches to make sure they function properly and the knobs are not loose on the shafts.
- (b) Check all terminals for broken parts and spring action.
- (c) Remove the cover and inspect all switches for broken parts.
- (d) Make sure that none of the leads are broken or bent in a manner that reduces spacing between leads or the case.
- (e) Rotate the variometer ("TUNE TO MINI-MUM PA PLATE CURRENT" knob) and make sure it does not bind.
 - (f) Make sure vacuum switch is not broken.
- (g) Make sure micalex terminal board is not broken.
- (b) Check all stand off insulators to see that none are broken and replace the cover.

(6) ANTENNA LOADING COIL CU-25/ART-13.

- (a) Turn the switches to make sure they function properly and the knobs are not loose on the shafts.
- (b) Check all terminals for broken parts and spring action.
- (c) Remove the case by removing the screws around the extreme edge of the front panel. Inspect for broken parts.
- (d) Make sure that none of the leads are broken or bent in a manner that reduces spacing between leads or the case.
- (e) Rotate the variometer ("TUNE TO MINI-MUM PA PLATE CURRENT" knob) and make sure it does not bind.
- (f) Check all stand off insulators to see that none are broken. Replace the cover.

(7) ANTENNA LOADING COIL CU-26/ART-13.

- (a) Turn the switches to make sure they function properly and the knobs are not loose on the shafts.
- (b) Check all terminals for broken parts and spring action.

- (c) Remove Mounting Plate MT-162/ART-13 (left side of case) by loosening the captive screws on the right side of the case. Inspect for broken parts.
- (d) Make sure that none of the leads are broken or bent in a manner that reduces spacing between leads or the case.
- (e) Rotate the variometer ("TUNE TO MINI-MUM PA PLATE CURRENT" knob) and make sure it does not bind.
- (f) Check all stand-off insulators and shaft insulators to see that none are broken.
 - (g) Replace Mounting Plate MT-162/ART-13.

(8) ANTENNA SWITCHING UNIT SA-22/ART-13.

- (a) Turn the switches to make sure they function properly and the knobs are not loose on the shafts.
- (b) Check all terminals for broken parts and spring action.
- (c) Remove the cover and inspect the switch for broken parts.
- (d) Make sure that none of the leads are broken or bent in a manner that reduces spacing between leads or the case.
- (e) Rotate the variometer ("TUNE TO MINI-MUM PA PLATE CURRENT" knob) and make sure it does not bind.
- (f) Make sure micalex terminal board is not broken

(9) CAPACITOR CONNECTING SWITCH.

- (a) Inspect all ceramic parts to make sure none are broken.
- (b) Check spacing of jumper leads to make sure it has not been shortened by improperly bent wires.

b. BENCH TEST.

(1) GENERAL.—Check the complete equipment for proper operation before installation in the aircraft. Where numerous installations are to be made, it is recommended that a test bench be set up.

Note

Adjustment procedures for the equipment must be thoroughly understood before making any of the following tests. (See paragraph 7, this section.)

(2) EQUIPMENT REQUIRED.

- (a) Complete mock-up including all necessary cables and plugs and one station box with liaison position connected into the mock-up.
- (b) A 28-volt direct current power source with a capacity of 35 amperes per transmitter being tested.
 - (c) Suitable phantom antenna (Antenna A-58).
 - (d) Head Set HS-33.
- (e) Microphone T-17, or Microphone T-30 with Cord CD-318 or CD-508.
- (f) Means for checking continuity. This may be a continuity meter or just a battery and light bulb.
 - (g) Plug PL-55 with the terminals shorted.

(3) TEST PROCEDURE—VARIABLE FREQUENCY OSCILLATOR OPERATION.

- (a) Connect the components in the bench mockup with Antenna A-58 connected to the "FIXED ANTENNA" ("FIXED" terminal when using Antenna Switching Unit SA-22/ART-13) terminal on the antenna loading unit.
- (b) Turn "EMISSION" switch to "VOICE" position and "CHANNEL' switch to position "1".
- (c) Set the antenna selector switch on the antenna loading unit on "FIXED ANT." position ("FIXED" when using Antenna Switching Unit SA-22/ART-13) and the switch on Antenna A-58 on position "4." Set and lock the transmitter controls on 2400 kilocycles (control "A" on 1) on channel 1 in accordance with the operating instructions for CW operation and using the crystal frequency indicator. Check "P.A.GRID" meter reading to make certain the grid drive to the final amplifier tube is within limits.
- (d) Cycle the autotune into channel 1 by moving "CHANNEL" switch to position "2" until the autotune motor starts and then back to position "1." Close "TEST" switch after cycling is completed. The "P.A. PLATE" reading should be very close to that obtained when the channel was set up.
- (e) Plug the shorted Plug PL-55 into "T.S." jack and "KEY" jack in turn. Power should be delivered to the antenna in each case.
- (f) Lift the calibration chart on the face of the transmitter and make sure that microphone selector switch S201 is in the "CARBON" position and safety wired. (See fig. 2-3.) Turn "EMISSION" switch to "VOICE," plug the microphone into "MICRO-PHONE" jack, and press the button. Power should be delivered to the antenna and the plate current should be slightly above that for CW operation. Speak or whistle into the microphone. Plate current should rise near or higher than the "MCW" area on the meter with modulation.

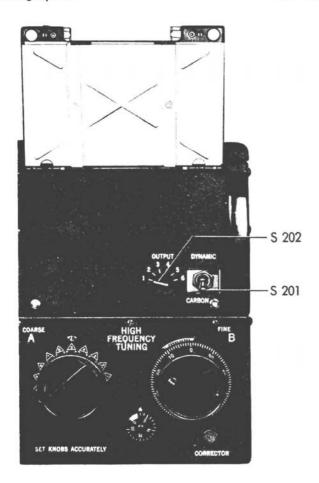
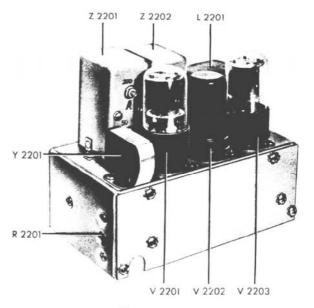


Figure 2-3—Microphone Selector Switch and Sidetone Output Switch

(g) Place "EMISSION" switch on "MCW" position and close "TEST" switch. Power should be delivered to the antenna and the plate current meter should read 190 or higher. If this reading is not obtained, readjust the MCW control until a reading of at least 190 is secured. This screwdriver adjustment is located inside the transmitter and is reference number R-2201 when using the MCW-CFI 8Q-2 Unit (see fig. 2-4), and is reference number R-310 as shown in figure 2-5 when the transmitter employs the MCW-CFI 8Q-1 Unit.

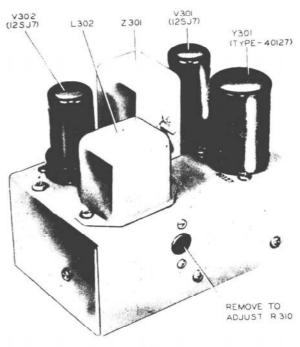
(b) Listen in the "SIDETONE 1" circuit and key the transmitter on "CW," "MCW," and modulate on "VOICE" position. The proper sidetone signal should be heard on all emission positions. Repeat with head sets plugged into the station box connected as a part of the mock-up. Lift the calibration chart the set "OUTPUT" switch \$202 on each position in turn. (See fig. 2-3.) The proper sidetone signal should be heard on each position, being louder the higher the number of the switch position.



Note

If this unit is installed, use calibration tables 5-1, 5-2 and 5-3 or tables in Calibration Book for Radio Transmitting Set AN/ART-13A (T.O. No. 16-30ART13-9). (If this unit is installed when Oscillator O-16/ART-13 is used, refer to par. 6A, section V for instructions for calibrating the oscillator.)

Figure 2-4-MCW-CFI 8Q-2 Unit-Showing R-2201



Note

If this unit is installed, use calibration tables 5-4, 5-5 and 5-6 or any one of editions 1 through 4 of Calibration Book for Navy Model ATC or ATC-1.

Figure 2-5-MCW-CFI 8Q-1 Unit-Showing R-310

(i) Set up and lock the other channels of the autotune by loading the transmitter into the phantom antenna, with controls "A" and "B" set as follows:

Channel	A	В
2	2	200
3	3	100
4	4 5	060
5		100
6	6	100
7	7	100
8	8	100
9	9	100
10	10	100

- (j) Place the switch on Antenna A-58 on position "3."
- (k) Set up the "L.FREQ." channel on 400 kilocycles using the internal CFI.
- (1) Place the switch on Antenna A-58 on position "4."
- (m) Place "CHANNEL" switch on "MANUAL," power level switch on "TUNE," meter switch on "P.A. GRID," control "B" on 100, control "C" on 13, control "A" on 11, and close "TEST" switch. The meter should read in or slightly above the lightly shaded area under "P.A.GRID." Repeat with control "A" on position 12.
- (n) If the installation includes the antenna shunt capacitor, close its connecting switch and tune the transmitter near 2300 kilocycles. Open the switch.
 - (a) Turn "EMISSION" switch to "OFF."
- (p) Change the phantom antenna lead from the "FIXED ANTENNA" ("FIXED" terminal on Antenna Switching Unit SA-22/ART-13.) terminal on the antenna loading unit to the "TRAILING ANTENNA" ("TRAILING" terminal on Antenna Switching Unit SA-22/ART-13) terminal and set the switch to the "TRAILING ANT." ("TRAILING position on Antenna Switching Unit SA-22/ART-13) position.
- (q) If the installation includes the remote control unit, set "LOCAL REMOTE" switch on "REMOTE" position, the emission switch on the remote control unit on "VOICE," and "CHANNEL" switch on position "1." Then place the emission switch on "CW." Wait for the light on the control unit to come on.
- (r) Press the key on the control unit. Power should be delivered to the antenna and the meter should read in the area marked "CW." Meter readings should be very close to those obtained previously.
- (s) Check operation on "VOICE" from the control unit by means of its emission switch and the microphone jack on it.

- (t) Select channels "2" to "L.F." on the control unit in turn, closing the key each time the autotune completes cycling. Operation should be normal on each; meter readings, plate and antenna, should be very close to those obtained previously.
- (*) Disconnect the wires from the "ANT." and "LOAD COIL" posts and check continuity between the "RECEIVER" and ground posts. They should be open with the key up and closed with the key down. Remove the input plug from the dynamotor unit and then check continuity between the "ANT" and "RECEIVER" posts. They should be connected.

(4) TEST PROCEDURE—CRYSTAL OSCILLATOR OPERATION

- (a) With the CDA-T Crystal Oscillator in use, VFO operation is still obtainable in the frequency range of 2000 to 18,100 kilocycles, by throwing the "VFO/XTAL" switch to the "VFO" position. Then follow instructions as outlined in paragraph (3), (a) through (u) of Section II.
- (b) For crystal operation in the frequency range of 2000 to 18,000 kilocycles:
- 1. Turn the "VFO/XTAL" switch to "XTAL", and the "A-B" switch to "A".
- 2. Follow procedure outlined in paragraph (3) (a) through (b), of Section II. It will be noted that the "P.A. GRID" meter reading will be lower for Crystal operation than for VFO; how much lower depends to a great extent on the frequency in use. "P.A.PLATE" meter readings may also vary, but not to the same extent as the "P.A.GRID". While a definite "P.A.GRID" reading cannot be specified for crystal operation, it should never go below the "40" indication on the meter. Remember that these readings are for comparison purposes only, and do not represent any definite amount of grid drive.
- 3. After this channel has been checked with the "A-B" switch setting on "A", switch to "B", and note the differences if any, between the two frequencies. It may sometimes be necessary to adjust the transmitter's loading and calibration settings to a midway point between the "A" and "B" settings, to obtain the maximum average output.
- 4. Set up channels 2 through 10, as outlined above for channel 1.
- (c) For crystal operation in the frequency range of 300 to 500 kilocycles:
- 1. Set "VFO/XTAL" switch to "XTAL"; the 4-position switch on the CDA-T Unit to position "1"; and the transmitters channul to "L.FREQ.", (which should position the "A" dial to it's #13 setting). If the transmitter's "A" dial is not on #13, it should be set manually or by re-setting the Autotune.

- 2. Check the "P.A.GRID" and "P.A.PLATE" meter indications as previously outlined for the higher frequency range, keeping in mind that these indications will also vary on the low frequency range from VFO operation.
- Turn the 4-position switch on the CDA-T
 Unit to each position, and re-check as outlined above.
 - (d) For crystal operation-Remote control.
- Follow instructions as outlined in paragraph
 (3) (q) through (u).
- 2. To obtain 2 frequencies on each of the 1 through 10 channels, throw the "A-B" switch to each of its positions. Only 1 low frequency is obtainable on remote control, and it depends on the setting of the 4-position switch on the transmitter's CDA-Unit.

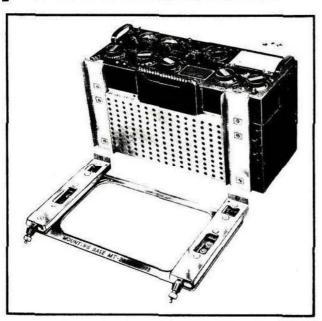


Figure 2-6—Radio Transmitter T-47A/ART-13 with Mounting Base MT-284/ART-13 and Mounting Plate MT-283/ART-13

3. INSTALLATION.

- a. TRANSMITTER.—Mount the transmitter at a height convenient for operation of the controls. Outline dimensions, ventilation provisions, clearances required for operation and removal, bonding and mounting hole sizes and placement are shown in figures 5-1 and 5-2.
- (1) To install the unit on Mounting Base MT-284/ART-13, the transmitter must be equipped with Mounting Plate MT-283/ART-13. After Mounting Base MT-284/ART-13 has been installed in the aircraft in accordance with figure 5-1, set the transmitter on the mounting with the channels engaged, slide it backwards to engage the holding pins and tighten the locking knobs on the front of the transmitter by turn-

ing them clockwise until tight. Be sure the holding pins on the back of the unit engage the proper holes before tightening the locking knobs. Safety wire the locking knobs in position.

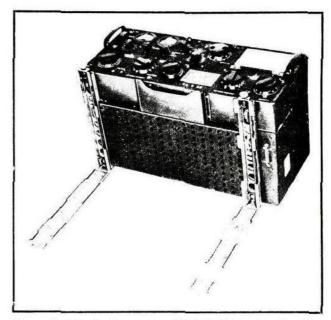


Figure 2-7—Radio Transmitter T-17/ART-13 with Mounting Base MT-161/ART-13 (Navy Type -52286 Transmitter)

(2) To install the unit on Mounting Bases MT-161/ART-13, the transmitter must be equipped with the two channel shock mounts and the perforated tray. After the mounting bases have been installed in the aircraft in accordance with figure 5-2, either slide the transmitter in from the front or set the unit on top of the mounting bases approximately 2 inches forward of its proper position. Slide the unit back as far as it will go and lock it by turning the knobs on the front of the transmitter in a clockwise direction until they are tight. Fasten the locking knobs in position with safety wire.

b. DYNAMOTOR UNIT.—Locate the dynamotor unit in such a position that it will be possible to reach the "RESET" buttons and the "FUSE" on the front of the unit while in flight. Both ends must be at least three inches from a flat surface to provide sufficient ventilation.

Figure 5-3 shows outline dimensions, plug clearances, bonding and mounting hole positions and sizes for Dynamotor Unit DY-17/ART-13. Similar information for Dynamotor Units DY-11/ART-13, DY-12/ART-13 and DY-12A/ART-13 is contained in figure 5-4.

To install the dynamotor unit on the mounting plate, set it on the mounting and slide it backward until the holding pins are engaged, then tighten the two locking knobs on the front of the unit by turning them clockwise.

- (1) Safety wire Dynamotor Unit DY-11/ART-13, DY-12/ART-13, or DY-12A/ART-13 by wiring the two locking knobs together. See figure 2-9.
- (2) Safety wire Dynamotor Unit DY-17/ART-13 by passing the wire through one of the holes in the knob and the hole in the corner of the filter and relay box. See figure 2-8.
- c. ANTENNA LOADING EQUIPMENT FOR LOW FREQUENCY OPERATION.— For the frequency range 200 to 600 kilocycles either Antenna Loading Unit CU-32/ART-13A with its associated Mounting Base MT-198/ART-13A or Antenna Loading Coil CU-25/ART-13 and Antenna Switching Unit SA-

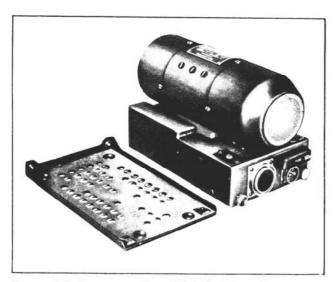


Figure 2-8-Dynamotor Unit DY-11/ART-13 (Navy Type -23333 Power Unit, with Dynamotor -21931)-with Mounting Plate MT 164/ART-13

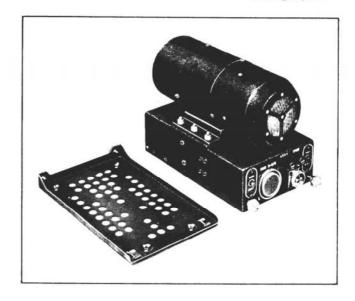


Figure 2-9—Dynamotor Unit DY-17/ART-13A with Mounting Plate MT-164/ART-13

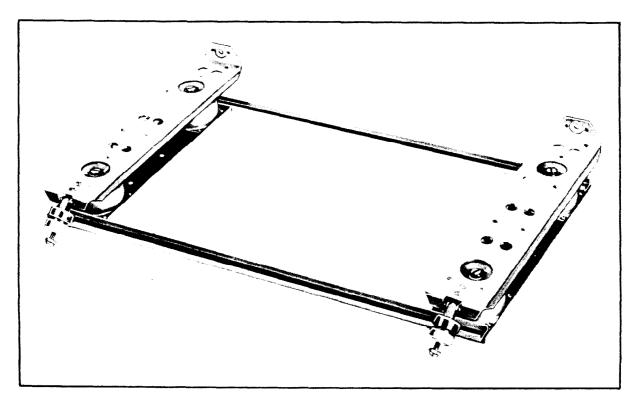


Figure 2-9A—Mounting Base MT-284A/ART-13

22/ART-13 with Mounting FT-42 may be used. For the frequency range 500 to 1500 kilocycles, use Antenna Loading Coil CU-26/ART-13 with Mounting Plate MT-162/ART-13 and Antenna Switching Unit SA-22/ART-13 with Mounting FT-142. If operation below 2000 kilocycles is not required in the installation, install Switch SA-13/U in place of loading or switching units. For outline dimensions, see figure 5-10.

Mount the loading and switching units within easy reach of the operator. Provide at least 6 inches of clearance between electrical terminals on each side of the units and surrounding objects.

- (1) ANTENNA LOADING UNIT CU-32/ART-13A AND MOUNTING BASE MT-198/ ART-13A.
- (a) Figures 5-5 and 5-6 show outline dimensions, required clearances, mounting hole locations, and bonding instructions for these units. The loading unit may be attached to the mounting plate in either of the positions shown. Snap slides are used to secure the loading unit to the mounting base. Duplicate sets of snap slides are provided on the top, back, and bottom of the loading unit case. Thus, the mounting base may be located above or below the loading unit, and the unit may be mounted facing out, up, or down.

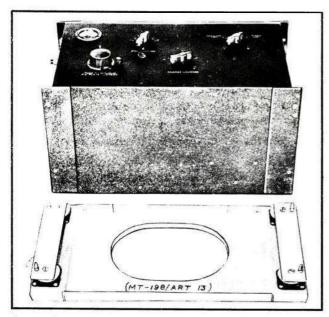


Figure 2-10—Antenna Loading Unit CU-32/ART-13A with Mounting Base MT-198/ART-13A

- (b) The mounting base is mounted on the structure of the aircraft by means of eight 1/4 screws (see fig. 5-4 for location of holes.)
- (c) After the mounting base has been installed, place loading unit in position on mounting base and

secure by closing all four snap slides (one on each corner of the case.) Safety wire the four snap slides.

- (2) ANTENNA LOADING COIL CU-25/ART-13 (NAVY TYPE -47281). (See Fig. 1-10.)
- (a) Figure 5-7 shows the outline dimensions and the distances between centers of the mounting holes. The loading coil may be mounted using holes on either of the two sides, top, bottom or rear of the case.

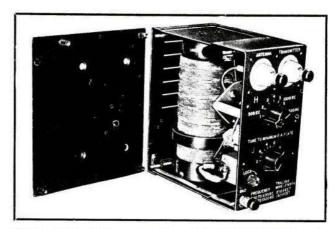


Figure 2-11—Antenna Loading Coil CU-26/ART-13 with Mounting Plate MT-162/ART-13 (Navy Type -47282)

- (b) To mount the case, remove the front panel by removing the panel securing screws and pulling the panel forward. All unit components are attached to the panel; therefore, the removal of the front panel leaves the case free for mounting. Approximately 111% inches clearance between the unit front panel and nearest obstruction is necessary for removal of the unit from the case.
 - (3) ANTENNA LOADING COIL CU-26/ART--13 (NAVY TYPE -47282). (See Fig. 2-11.)
- (a) Figure 5-9 shows the outline dimensions and the distances between centers of the mounting holes. Mounting Plate MT-162/ART-13 is used to mount the unit. That plate is a part of the case (the left side) of the unit and is, therefore, delivered installed on the unit.
- (b) To mount this unit, remove Mounting Plate MT-162/ART-13 by loosening the four captive screws on the right side of the unit and fasten the mounting plate to the structure of the aircraft. Fasten the unit to the mounting plate by means of the captive screws.
 - (4) ANTENNA SWITCHING UNIT SA-22/ART-13.
- (a) Figure 5-8 shows the outline dimensions and position and size of mounting holes. Mounting FT-142 is used to mount the unit.

- (b) Fasten the mounting to the aircraft and then mount the unit by means of the four snap slides. Safety wire and the snap slides in position.
- (c) Connect a two-conductor cable between the antenna switching unit and the transmitter. Insert the male connector Plug U-11 U into the transmitter and the female connector, Plug U-12 U, into the receptacle on the switching unit.

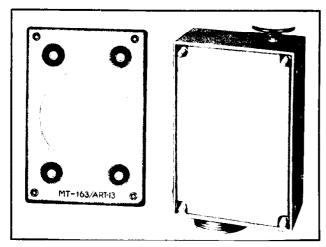


Figure 2-12—Control Unit C-87/ART-13 with Mounting Plate MT-163/ART-13 (Navy Type -23330)

- d. REMOTE CONTROL UNIT. (See figure 2-12.) Locate the control unit so that the controls are easily accessible to the operator. Mount it with the key upward leaving sufficient space for operation of the key.
- (1) See figure 5-11 for outline dimensions, plug clearances and mounting hole positions and sizes.
- (2) To mount the control unit on the mounting plate, place the unit on the mounting and tighten the four screws, one in each corner.
 - e. ANTENNA SHUNT CAPACITOR AND CONNECTING SWITCH.
- (1) Locate the units as near the left end of the transmitter as possible. Place the switch between the unit and the transmitter in such a position that it can be operated during flight and so vibration will not cause it to close. The total length of leads from the transmitter to the capacitor shall not exceed 12 inches.
- (2) See figure 5-12 for antenna shunt capacitor outline dimensions, bonding and position and size of mounting holes. See figure 5-13 for shunt capacitor connecting switch outline dimension.
- f. ANTENNAS AND LEAD INS.—Antenna Equipment AN ARA-4 has been designed for use with this transmitting equipment and its associated receiving equipment (Radio Receiving Set AN ARR-11.) Use number 10 bare copper wire for connecting the trans-

mitting antenna circuits inside the plane. Space the wires at least 1½ inches from any other metallic object. Use Beads IN-83 for additional protection where required.

4. INTER-UNIT CONNECTIONS.

- a. Make up the inter-unit connections when installing the equipment. A drawing of a typical wiring diagram for Radio Transmitting Set AN ART-13A is shown in figure 5-15. Typical wiring diagram for Radio Transmitting Set AN ART-13 is shown in figure 5-16.
- b. Cut the wires to the proper length for the installation involved.
- c. Allow enough additional length for each cable so that the cable is not tight enough to interfere with the action of the shock mounts or to damage the connectors.
- d. Figure 5-14 shows the dimensions of the plugs and outlines the method of connecting wires to the terminals
- e. Insert each plug into the corresponding socket in the equipment. Sockets are marked with the nomenclature of the proper plug.
- f. Tighten the locking rings on all plugs and safety wire them in place.

5. INSPECTION AND TEST AFTER INSTALLATION.

- a. Inspect the inter-connections to check them for conformity to the mock-up of the particular installation.
- b. Check the knurled knobs on the front of the transmitter and dynamotor unit, the microphone selector switch under the chart and all connector plug locking rings for presence of safety wiring.
 - c. Inspect the antenna for proper security and tension.
- d. Check the connections to the receiver, antenna ground and loading unit, making certain the spring connector terminals are making good contact with the wires.
 - e. Check all components for security of mounting.
- f. Set up the frequencies to be used in the flight test on the channels desired according to the procedure given in paragraph 7, this section.
- g. If low frequency equipment is installed, set up one frequency in the range 200 to 600 kilocycles and check for proper operation (see subparagraph 7b, (4) and 7c (3), this section).
- b. Cycle each channel in turn and check each for proper operation on "CW" by closing the key and noting the plate current for each. Plate current with the meter switch is "P.A. PLATE" position should be in the area marked "CW." Do not leave the key down any longer than necessary.

- i. Check "VOICE" and "MCW" operation on one frequency.
- j. If remote control is included in the installation, cycle each channel from the control Unit with the "LOCAL-REMOTE" switch in the "REMOTE" position. Check "VOICE," "CW" and "MCW" operation on one channel from the remote control unit.
- k. Turn on the receiver, make sure the "NORMAL-MONITOR" switch is in the "NORMAL" position, and listen in the liaison position of the jack box. The receiver hiss should be heard with the key up; the proper transmitter sidetone signal should be heard with the key down. Set the "OUTPUT" switch under the calibration chart on the position that gives the proper volume of sidetone signal when the transmitter is being keyed or modulated.
- L'Tune the receiver for CW operation ("CW.OSC") switch in the "ON" position on one of the frequencies set up on the transmitter. Set "NORMAL-MONITOR" switch (normally on "LIAISON" junction box) in "MONITOR" position and turn the power level switch on the transmitter to "CALIBRATE" position. It should be possible to hear a beat note and to tune the beat note to zero by rotating the receiver dial. Return the power level switch to "OPERATE" and the "NORMAL MONITOR" switch to "NORMAL" position.
- m. Establish communication with the ground station on each frequency to be used in the flight test.

6. FLIGHT TEST.

During the airplane test flight, establish communication with the ground station on both fixed and trailing wire antennas. The transmitter should be operated a minimum length of time on a regularly assigned test frequency.

7. ADJUSTMENTS.

WARNING

Operation of this equipment involves use of high voltages which are dangerous to life. Operating personnel must observe all safety regulations. Whenever the dynamotor is running, there is a potential of 1150 volts applied to the plate caps on top of the tubes.

a. USE OF CALIBRATION TABLES.

- (1) The low-frequency and high-frequency oscillators are electron coupled with no provision made for crystal control of the frequency of either oscillator. Therefore, a crystal controlled frequency standard has been incorporated in the equipment to be used for the calibration of the variable frequency oscillators.
- (2) Detailed oscillator calibration tables 5-1, 5-2, and 5-3 are included in section V for the crystal frequency indicator (MCW-CF1 8Q-2 Unit, shown in figure 2-1) delivered with Radio Transmitter T-47-

A/ART-13. Tables for the old crystal frequency indicator MCW-CFI 8Q-1 Unit are 5-4, 5-5, and 5-6, as delivered with some Radio Transmitters T-47/ART-13 (Navy Type -52286) and illustrated in figure 2-5. Calibration instructions for Oscillator O-16/ART-13, when MCW-CFI 8Q-2 unit is installed in the transmitter, are included in paragraph 6A, section V.

Note

Be sure to use the correct table.

Calibrating frequency "check points" have been indicated in the calibration tables by printing them in heavy black type. When checking the calibration, it is necessary to use the check point which is numerically nearest to the transmission frequency that is to be used. In calibration tables 5-1 and 5-2 horizontal lines appear at intervals in the columns which serve to indicate the direction of the nearest check point. In these tables always use the check point which appears between the same horizontal dividing lines that the desired frequency appears between. In calibration tables 5-3, 5-4, 5-5, and 5-6 use the first check point (heavy type) that is encountered by either looking back to succeedingly lower frequencies or by looking ahead to succeedingly higher frequencies. A note is included at the bottom of each table which will aid in locating the correct check point.

(3) The check points are frequencies at which audio beat notes between the output of the low-frequency oscillator or the output of the high-frequency oscillator and the harmonics of the CFI unit may be heard. These "beat notes" are used for setting the dial and the movable indicator mark in adjusting for proper calibration of the oscillator. The frequencies in the tables are given in kilocycles with the control positions in columns opposite the frequency. The numbers in columns B or G may be considered as combination numbers. For control "G," the hundreds figures (the one or two figures in the third and fourth positions to the left of the decimal point as underlines in the following example 724.6 or 1536.4) are set on the revolution counter near the control and the rest of the number is set on the dial, estimating the figure to the right of the decimal and setting it between divisions on the dial. For control "B," the hundreds figures are set the same as for control "G," the two figures immediately to the left of the decimal point (724.6 or 1536.4) are set on the dial and the figure to the right of the decimal point (724.6 or 1546.4) is set by means of a vernier. To obtain the settings given in the columns under B and G (B and G represent both dial designation and calibration table column heading) rotate the control until the revolution counter indicates the proper number of full revolutions and the dial indicates the fraction of a revolution. For accuracy in setting control "B," a vernier scale has been provided. To use the vernier, set that part of the number to the left of

the decimal point opposite the zero line on the vernier scale. Then note the line on the vernier scale that corresponds to the figure to the right of the decimal point and rotate the dial slightly in a clockwise direction until that line of the vernier is lined up with the first line on the dial that approaches it. For example, opposite 3410 kc the reading under B in the table is 1114.1 To obtain this setting of control "B," rotate the dial until the revolution counter indicates that the control has been rotated 11 full revolutions from the zero setting (see fig. 2-13); then continue to rotate the con-

trol until 14 on the dial appears opposite the zero line on the vernier scale, note line 1 on the vernier scale and further rotate the dial until the first line (15) on the dial lines up with line 1 on the vernier.

Note

Radio Transmitter T-47/ART-13 (Type -52286) cannot be set up as accurately as Radio Transmitter T-47A/ART-13 since no vernier was supplied and calibration tables are not as accurate.

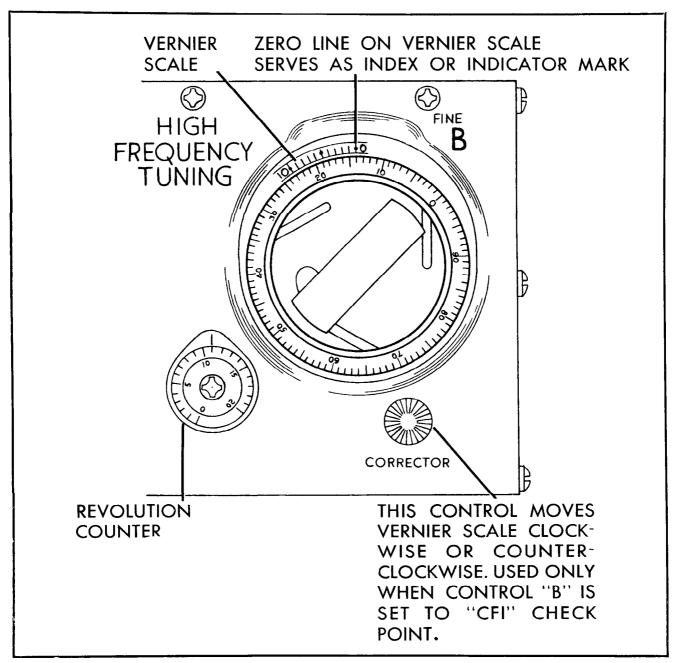


Figure 2 13—Illustration Showing Setting of Control "B" to 114.1 Per Example in the Text

- (4) The transmitter can be set to frequencies between those given in the table by the following method:
- (a) Find the two frequencies located on either side of the desired frequency.
- (b) Find the difference between the dial settings of control "B" or "G" for these two frequencies.
- (c) Multiply this difference by the decimal of a kilocycle in the desired frequency.
- (d) Add this product to the dial setting for the lower frequency in subparagraph (a) above.

EXAMPLE
It is desired to transmit on 3411.5 kilocycles.

	FREQ.	A	В	
	3410	3	1114.1	D:4
Desired Frequency 3411.5	(3411	3	1116.6}	Difference Between Dial Settings is 2.4
	∫3412	3	1119.0	Dial Settings
	3413	3	1121.5	15 2.4

SETTING FOR DESIRED FREQUENCY IS OBTAINED THUS:

Difference in dial setting	2.4	
		Multiply
Decimal in the desired frequency	x 5	
Product	1.20	
Dial setting for lower frequency	1116.60	Add
Dial setting for desired freq.	1117.80	

- b. PROCEDURES FOR SETTING THE CONTROLS (FOR MANUAL OR AUTOTUNE OPERATION.)
- (1) GENERAL.—Following are the procedures for setting up the transmitter for manual or autotune operation. If manual operation is desired it is only necessary to set "CHANNEL" switch on "MANUAL" position and follow these instructions, except the locking bars should not be moved. Manual operation will not interfere with any of the channels set up for autotune operation if the locking bars are not loosened nor will setting up any channel in accordance with the following procedure interfere with any other channel previously set up. Channeling the autotune with the locking bars loose will completely eliminate the setting previously set up for the channel that was cycled and may cause settings for some or all of the other channels to shift.
- (2) CW OPERATION INTO FIXED ANTENNA—VARIABLE FREQUENCY OSCILLATOR (VFO)—(2,000 to 18,100 Kilocycles).—The following procedure is to be used for setting up the transmitter for autotune operation on a desired frequency on any of the 10 high frequency channels.
- (a) Place the antenna selector switch on the antenna loading unit on "FIXED ANT." position.

- ("FIXED" position when using Antenna Switching Unit SA-22/ART-13.) When no low frequency equipment is supplied in the installation, Switch SA-13/U is used.
- (b) Make certain that the microphone, key, and throttle switch ("T.S.") jack circuits are open.
- (c) Place "LOCAL-REMOTE" switch in "LOCAL" position and "VFO/XTAL" switch in "VFO" position.
- (d) Place "EMISSION" switch in "VOICE" position.
- (e) Check primary voltage by moving the meter switch to "BATTERY VOLTAGE" position. Usable primary voltage is indicated when the meter needle is within the light colored area under "BATTERY." A primary voltage of 28 volts will cause the meter needle to read at the top edge of this colored area. A primary voltage of 24 volts will cause the meter needle to read the lower edge of this colored area.
- (f) Place "CHANNEL" switch in the position corresponding to the channel it is desired to set up. (If manual operation is desired, place "CHANNEL" switch in "MANUAL" position.) If the autotune system begins to run, allow it to complete the cycle of operation before proceeding. The red pilot light on the front of the transmitter will light when the autotune cycle is completed, and the transmitter will be ready for tuning adjustments or operation.
- (g) Unlock all five controls by holding the dial and turning the locking bar ¼ turn in a counterclockwise direction. (If manual operation is being used, the locking bars should not be loosened.)
- (b) Set control "C" on position 1. Check the position of the control against the indicator mark on the transmitter panel. The setting of this control is critical. The transmitter will not operate if control "C" is not set properly.
- (i) Find the desired frequency in the calibration table and note the nearest crystal check point marked in heavy black type.
- (j) Set control "A" to the position corresponding to the number in column A at this crystal check point. Check the position of the control against the indicator mark on the transmitter panel. The setting of this control is critical. The transmitter will not operate if control "A" is not set properly.
- (k) Set control "B" to the position corresponding to the number in column B at this crystal check point.
- (1) Set the power level switch to "CALIBRATE" position and listen in the sidetone circuit for a beat note while rotating control "B" back and forth about the position given for the crystal check point. Set con-

trol "B" on the position which gives zero beat and turn the power level switch to "TUNE" position.

- (m) Set the venier scale or single index mark by means of the "CORRECTOR" knob near control "B" to the reading of control "B" found in column B at this crystal point.
- (n) Refer to the calibration table and obtain the correct setting of control "B" for the desired operating frequency.

Note

Be sure to use the correct tables. For radio transmitters with the MCW-CF1 8Q-2 Unit installed use tables 5-1, 5-2, and 5-3; for radio transmitters with the MCW-CFI 8Q-1 Unit installed use tables 5-4, 5-5, and 5-6. (When the MCW-CFI 8Q-2 Unit is installed in the transmitter and Oscillator O-16/ART-13 is used, refer to par. 6A, section V for instructions for calibrating the oscillator.)

- (a) Set control "B" to the reading obtained above.
- (p) Lock control "A" by first noting its reading, rotating dial counterclockwise one-quarter turn, or against the stop if the stop is within one-quarter turn, and then rotating it clockwise to, but not past the reading on which it had been set. Hold the knob and turn the locking bar clockwise until it is right with a firm but not heavy pressure. Repeat this procedure for control "B." Further pressure on either control in a clockwise direction should not cause the dial to move beyond the original setting. If it does, unlock and repeat the locking procedure, making certain the original dial settings are used. (If manual operation is being used, the locking bars should not be bothered.
- (q) Place "EMISSION" switch on "CW" position.
- (r) Check the grid drive to the final amplifier by placing the meter switch on "P.A.GRID" position, closing "TEST" switch, and noting the reading on the meter. It should read in, or slightly above, the light colored area marked "P.A.GRID." If it does not, operation is not normal. Control "A" may not have been positioned accurately. Check the trouble before proceeding. See "Note" in subparagraph (bh) following.
- (s) Place the meter switch on "P.A.PLATE" position.
 - (t) Place control "D" on zero.
- (u) Hold "TFST" switch closed and rotate control "E" throughout its range, seeking a plate current dip indicating resonance of the circuit.

CAUTION

Do not move control "E" across the space between 100 and 200 or between 0 and 100 while "TEST" switch, microphone button, or key is closed. An internal switch will be damaged if this precaution is not followed.

- (v) If no resonance dip is found, set control "C" on the next higher position and rotate control "E" again, seeking a dip in plate current.
- (w) Repeat the instructions in subparagraph (v) above until the resonance dip is found or until control "C" is set on position 8 and resonance has not been found.

Note

If frequency of operation is below 3000 kilocycles see instructions in subparagraph (jj) following.

- (x) If resonance was found on positions 1 to 7 inclusive on control "C", place the power level switch in "OPERATE" position.
- (y) Load the power amplifier by increasing the reading on control "D" in steps, re-resonating with control "E" each time. When control "D" has been rotated throughout its range, set control "C" on the next higher position, control "D" on zero, and repeat. Continue this process until the resonance dip falls in the light colored area marked "CW" on the plate meter. Correct loading of the final amplifier tube, when a 28-volt primary voltage is used, is 100 on the plate meter. It may not be possible, in all cases to load the amplifier tube exactly to this value, but any value of loading which is in the light colored area marked "CW" will be satisfactory.

Note

If the resonance dip causes the plate current to fall to a very low value, control "C" may be set to the next higher position without moving control "D," always re-resonating with control "E" each time as before. Fine adjustment must still be made by means of control "D." On antennas more than 55 feet in length and on frequencies below 3000 kilocycles it may not be possible to load the final amplifier to the light area marked "CW" before control "E" reaches zero. If this happens, set control "E" on zero and resonate with control "D." This will give the best operation obtainable under these conditions.

- (z) If resonance was not found before control "C" was set on position 8, leave control "C" on position 8, set control "E" on zero, and seek the resonance dip in plate current by rotating control "D" throughout the range of 0 to 100.
- (aa) If resonance is not found, set control "C" on the next higher position, rotate control "D" again, seeking the resonance dip.
- (bb) Repeat subparagraph (aa) above until resonance is found or until control "C" has been tried on position 13 without finding a resonance dip.

- (cc) If the resonance dip was not found with control "C" on position 13, leave that control on position 13, place control "D" on 100, and seek the resonance dip with control "E."
- (dd) When resonance is found, place the power level switch on "OPERATE" position.
- (ee) Load the power amplifier by increasing the reading on control "E" in steps, re-resonating with control "D" each time until the resonance dip falls in the light colored area marked "CW" on the meter.

Note

On some types of antennas, and often with Control "C" on position 13, loading may decrease when control "E" is placed on a higher position. In that event, reverse the direction of movement of control "E".

- (ff) After proper loading of the final amplifier tube has been found using any of the above procedures, lock control "C" by noting its reading, rotating the dial counterclockwise about one-quarter turn, and then rotating it clockwise to but not past the reading on which it had been set. Hold the knob and turn the locking bar clockwise, until tight, with a firm but not heavy pressure. Further pressure on the dial in a clockwise direction should not cause the dial to move beyond the original setting. If it does, unlock and repeat the locking procedure, making certain the original dial setting is used. Repeat this procedure with controls "D" and "E." (If manual operation is being used, the locking bars should not be bothered.)
- (gg) Check tuning and locking by holding "TEST" switch closed while placing a small force on each dial in turn in the clockwise direction. If all dials are locked properly, no detuning will result. (Do not use this test when in "MANUAL" position.)
- (bh) Repeat the above procedure for each high frequency autotune channel it is desired to set up on the transmitter.

Note

The "P.A.GRID" meter reading, with control "A" on position No. 7 is usually at the lower edge of the light colored area marked "CW." It is permissible for the grid meter reading for this particular setting (control "A" on No. 7) to be 50 on the meter scale and still be satisfactory. A lower meter reading is not satisfactory, and the transmitter should be replaced with a serviceable transmitter if resetting of control "A" does not correct the difficulty.

(ii) When operating in the 2000 to 3000 kilocycle range into a fixed antenna, care must be exercised to avoid operation on a harmonic of the desired frequency. This will be avoided in most cases by follow-

ing the outlined procedure for tuning adjustment into a fixed antenna. However, for frequencies between 2000 and 3000 kilocycles on antennas shorter than 50 feet, the antenna may be too short for the tuning elements in the transmitter to resonate at the fundamental frequency. Therefore, the first resonance indicated by the tuning adjustment procedure may be a harmonic of the desired frequency. To determine whether this is tuned, follow the tuning procedure outlined in subparagraph (jj) below.

(jj) For operation into short antennas (less than 50 feet) at frequencies between 2000 kilocycles and 3000 kilocycles it may be necessary to connect the antenna shunt capacitor to the "COND" post on the transmitter. This is accomplished by throwing the knife switch so the capacitor is connected to the transmitter. The following table may be used as a guide to determine whether or not use of the capacitor will be necessary and, if used, how many sections are required for various frequencies and lengths of antenna.

Length of Antenna (in feet)	Frequency Range (in kilocycles)	Antenna Shunt Capacitor number of Sections Necessary	
60 to 65	2000 to 18100	none	
53 to 60	2000 to 2100	one	
53 to 60	2100 to 18100	none	
45 to 53	2000 to 2100	two	
45 to 53	2100 to 2200	one	
45 to 53	2200 to 18100	none	
36 to 45	2000 to 2100	three	
36 to 45	2100 to 2200	two	
36 to 45		one	
36 to 45	2400 to 18100	none	
27 to 36	2100 to 2200	three	
27 to 36	2200 to 2400	two	
27 to 36	2400 to 2700	one	
27 to 36	2700 to 18100	none	
20 to 27	2200 to 2400	three	
20 to 27	2400 to 2700	two	
20 to 27	2700 to 3000	one	
20 to 27	3000 to 18100	none	

To determine the length of the antenna, measure the total length of wire from the antenna terminal of the transmitter to the extreme end of the antenna (including the length of the lead inside the airplane.) If the antenna is a "T," disregard the length of wire in the shorter branch at the top of the "T,", or, if the two branches are equal, include the length of only one of them. The tuning procedure for the transmitter, when using the shunt capacitor, is identical to the procedure without the shunt capacitor. The use of the antenna

shunt capacitor reduces the power output from the transmitter when used on frequencies higher than those which require its use. For this reason, it should not be used except when necessary and only on those channels which require it. This cannot be done if the transmitter is to be operated from a remote position, since no provisions have been made to automatically switch the shunt capacitor in or out. In this case the capacitor should be used only if it is desired to set a channel in the frequency range wherein the antenna cannot be resonated by the tuning elements in the transmitter itself, and it must be left in for all channels regardless of the reduction of power. Only the capacity necessary to tune the lowest frequency used should be connected. This can be done by connecting one, two, or three of the capacitors in parallel, according to the amount of capacity needed. Use the smallest number possible. To determine the lowest frequency that can be tuned with a given number of capacitors for a particular antenna, proceed as follows.

- 1. Connect the circuit it is desired to check; that is, either no capacitor connected, one section connected, two sections connected, or three sections connected.
- 2. Place "LOCATE REMOTE" switch to "LOCAL" position.
- 3. Place "EMISSION" switch on "VOICE" position.
- 4. Place "CHANNEL" switch on "MANUAL" position.
- 5. Place the meter switch on "P.A.PLATE" position.
- 6. When the autotune motor stops and the pilot light comes on, set control "A" on position 2 and control "B" on 2000.
- 7. Tune the load the power amplifier according to instructions contained in subparagraph 7b(2)(q) through (y).
- 8. Attempt to repeat the above tuning and loading procedure with each of the following combinations of settings in turn.

Control A	Control B
2	1500
2	1000
2	500
1	1500
1	1000
1	500
1	100

The setting of control "E" for each successive trial will be lower than for the preceding trial. If one of the above combinations of controls "A" and "B" cannot be tuned without going to a higher setting of control "C" than for the preceding combination, place

control "C" on position 1, control "D" on zero, and control "E" on zero. Then rotate control B toward a higher reading, while holding "TEST" switch closed, until the plate current shows a resonance dip. Turn the transmitter off and look up the frequency in the calibration table corresponding to the combination of controls "A" and "B" found by this process. This installation of the transmitter, with sections of the antenna shunt capacitor (if used), with this length of fixed antenna wire in this type of airplane, cannot be tuned to any frequency below that obtained by this process. It may appear that proper operation is obtained by continuing the tuning procedure to higher positions of control "C," but this results in operation on a harmonic of the desired frequency and will result in complete lack of communication.

- (3) CW OPERATION INTO TRAILING AN-TENNA---VARIABLE FREQUENCY OSCIL-LATOR (VFO)---(2,000 to 18,100 Kilocycles)
- (a) Set control "A" and "B" on the desired frequency by following instructions in paragraphs 7b(2)-(b) through (s).
- (b) Connect the "ANT." post on the transmitter to ground with a lead as short as possible.
 - (c) Place control "D" on zero.
- (d) Hold "TEST" switch closed and rotate control "E" throughout its range, seeking a plate current dip indicating resonance of the circuit.
- (e) If no resonance dip is found, set control "C" on the next higher position and rotate control "E" again, seeking a dip in plate current.
- (f) Repeat the instructions in paragraph (e) above until the resonance dip is found or until control "C" is set on position 8.
- (g) If resonance was not found before control "C" was set on position 8, leave control "C" on position 8, set control "E" on zero, and seek the resonance dip in plate current by rotating control "D" throughout the range of 0 to 100.
- (b) If resonance is not found, set control "C" on the next higher position, rotate control "D" again, seeking the resonance dip.
- (i) Repeat paragraph (b) above until resonance is found or until control "C" has been tried on position 13 without finding a resonance dip.
- (j) If the resonance dip was not found with control "C" on position 13, leave that control on position 13, place control "D" on 100, and seek the resonance dip with control "E." Do not attempt to load the Linsmitter.

Note

The above procedure may be accomplished on the ground and controls "C," "D," and "E" locked in the positions found for each frequency on which trailing wire operation is desired. Then during flight, it will be necessary to channel the autotune into the channel on which it is desired to operate: unlock controls "C," "D," and "E" and continue with the procedure that follows. Be sure "EMISSION" switch is on "CW," power level switch in on "TUNE" and meter switch is on "P,A,PLATE."

- (k) When resonance is obtained, release the "TEST" key and remove the connection between the "ANT." post and ground and make certain the proper wire is fastened to that post.
- (1) Let out the trailing wire to a counter reading 10 higher than that shown in the following table of approximate antenna lengths for the desired frequency.
- (m) Hold the "TEST" switch closed and reel the wire in while watching the plate current meter for a resonance dip.
- (n) If no dip is found, let the wire out to a reading 20 higher than that indicated in the table and repeat the reeling-in procedure.

COUNTER READING

KC	1/4	Wave	3/4 Wave	5/4 Wave
2000.		101		
3000.		61		
4000.		46	150	
5000.		38	118	
6000.			90	
7000.			70	
8000.			60	
9000.		<i></i>	48	93
10000.			41	76
12000.				55
14000.				44
16000.				37
18000.				34

- (a) When resonance is found, adjust the length of the wire to correspond to minimum plate current and set power level switch on "OPERATE" position.
- (p) If resonance was found with control "C" on positions 1 to 7 inclusive, load the power amplifier by increasing the reading on control "D" in steps, reresonating with control "E" each time. When control "D" has been rotated throughout its range, set control "C" on the next higher position, control "D" on zero, and repeat. Continue this process until the resonance dip falls in the light shaded area marked "CW" on the plate meter.

Note

If the resonance dip causes the plate current to fall to a very low value, control "C" may be set to the next higher position without moving control "D," always re-resonating with control "E" each time as before. Fine adjustment must still be made by means of control "D."

- (q) If resonance was found with control "C" on positions 8 to 13 inclusive, load the power amplifier by increasing the reading on control "E" in steps, reresonating with control "D" each time until the resonance dip falls in the light colored area marked "CW" on the meter.
- (r) Lock controls "C," "D," and "E." (If manual operation is being used, the locking bars should not be loosened.)

Note

This channel may be used on trailing wire again without unlocking the dials by cycling the autotune into the channel, placing the power level switch on "TUNE" position, adjusting the antenna length to the position corresponding to minimum plate current if frequency is below 10,000 kilocycles and to maximum antenna current if frequency is above 10,000 kilocycles and returning the power level switch to "OPERATE" position. Be sure to use the same number of quarter wave lengths as in tuning up.

- (s) Trailing wire operation will increase the range of the equipment considerably in the frequency range 2000 to 6000 kilocycles, some in the frequency range 6000 to 10,000 kilocycles, but will not increase it appreciably for frequencies above 10,000 kilocycles.
 - (3A) CW OPERATION INTO FIXED OR TRAILING ANTENNA—CRYSTAL OSCIL-LATOR (2,000 to 18,000 Kilocycles)
- (a) With the CDA-T in use, replacing the low frequency unit (either O-16/ART-13 or O-17/ART-13A), the transmitter installation and operation will remain basically the same as outlined in paragraphs 7 a and 7 b of Section II. The few differences are as follows:
- 1. The "VFO/XTAL" switch on the CDA-T unit must be turned to "XTAL".
- 2. The "A-B" switch on the CDA-T must be operated to obtain a choice of two crystals on each of the 10 high frequency channels.
- 3. Meter readings will be lower than for VFO operation, but not excessively lower. The "P.A.GRID" setting should never go below "40".
- 4. When setting up the Autotone system, crystals must be chosen whose proper harmonic will fit into

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the frequency range specified on "A" dial for each channel.

- 5. When using remote control, only 10 frequencies are available (depending on the setting of the "A-B" switch at the transmitter) unless the remote control unit has been modified to include an "A-B" switch.
- 6. While the calibration charts are not so essential as when operating with VFO, the setting of dial "B" will affect the proper frequency setting, even with crystal operation; and it is important that this "B" setting be accurate
 - (4) CW OPERATION INTO FIXED OR TRAIL-ING ANTENNA—VARIABLE FREQUEN-CY OSCILLATOR (200 to 1500 Kilocycles).

The following procedure is to be used for setting up the transmitter; for autotune or manual operation on a desired frequency in the low frequency channel.

- (a) Place the antenna selector switch on the antenna loading unit (on Antenna Switching Unit SA-22/ART-13, when used) in the position which selects the desired antenna.
- (b) Make certain that the microphone, key and throttle switch ("T.S.") jack circuits are open.
- (c) Place "LOCAL-REMOTE" switch in "LO CAL" position.
- (d) Place "EMISSION" switch in "VOICE" position.
- (e) Place "CHANNEL" switch in "L. FREQ." position and wait until the autotune stops.
- (f) Unlock controls "A" and "C." Place control "A" on position 13 and control "C" on position 8, and lock them in place. (If manual operation is being used, place control "A" on position 13 and control "C" on position 8 without unlocking them.)

Note

If the low frequency autotune mechanism should fail, it is only necessary to switch to "MANUAL" and set control "A" to position 13 and control "C" to position 8, since low frequency operation is only a switching procedure. It is possible to set the low frequency position on any of the 11 channels. It is only necessary to lock control "A" on position 13 and control "C" on position 8, on the channel it is desired to use as a substitute for the "L. FREQ." position.

- (g) Find the desired frequency in the calibration table and note the nearest crystal point marked in heavy black type.
- (b) Set control "F" to the position corresponding to the number in column F at the crystal check point.

- (i) Unlock control "G" by turning the lock knob counterclockwise until loose. Then set control "G" to the position corresponding to the number in column G at the crystal check point.
- (j) Set the power level switch to "CALIBRATE" position and listen in the sidetone circuit for a beat note while rotating control "G" back and forth about the position given for the crystal check point. Set control "G" on the position that gives zero beat and turn the power level switch to "TUNE" position.
- (k) Set the movable indicating mark by means of the "CORRECTOR" knob near control "G" to the reading of the control "G" found in the column G at the crystal check point.
- (1) Refer to the calibration table and obtain the correct setting of control "G" for the desired operating frequency and set control "G" to that reading. Lock the dial.
- (m) Place "EMISSION" switch on "CW" posi-
- (n) Check the grid drive to the final amplifier by placing the meter switch on "P.A.GRID" position, closing "TEST" switch, and noting the reading on the meter. It should read in, or slightly above, the light colored area marked "P.A.GRID" on the meter. If it does not, check the positions of controls "A" and "C."
- (0) Place the meter switch on "P.A.GRID" position.

IMPORTANT

Continue with steps (p) through (y) below when using Antenna Loading Unit CU-32/ART-13A. Continue with steps (z) through

- (bb) following when using Antenna Loading Coil CU-25/ART-13 (Antenna Loading Coil CU-26/ART-13) and Antenna Switching Unit SA-22/ART-13.
- (p) Place control "P" on the Antenna Leading Unit on position 1.
 - (q) Place control "Q" on position 1.
 - (r) Unlock control "R" and place it on zero.
- (s) Hold "TEST" switch closed and rotate "R" throughout its range, seeking a plate current dip indicating resonance of the circuit.
- (t) If no resonance was found, place control "Q" on the next higher position, hold "TEST" switch closed, and rotate control "R" again, seeking the dip in plate current.
- (u) Repeat paragraph (t) above until resonance is found or until control "Q" has been tried on all its positions.

- (v) If no resonance was found in subparagraph (u) above, set control "P" on the next higher position, control "Q" on position 1 and repeat subparagraphs (s) (t) and (u) above.
- (w) Repeat subparagraph (v) above until reson ance is found.
- (x) When resonance is found, lock control "R" in the position giving minimum plate current.
- (y) This completes the tuning procedure when using Antenna Loading Unit CU-32/ART-13A as there is no provision for exact loading of the transmitter in the frequency range 200 to 600 kilocycles. The plate current may read anywhere between \$\dlocup\$0 and 120 for normal operation.

Note

For operation in the 200 to 600 kilocycle range, use Antenna Loading Coil CU-25/ART-13 with controls "K" and "L"; in the 600 to 1500 kilocycle range, use Antenna Loading Coil CU-26/ART-13 with controls "H" and "J."

- (z) Place control "K" (or "H" as applicable) on position 1.
- (aa) Turn the "LOCK" knob counterclockwise until loose on control "L" (or "J" as applicable).
- (bb) Place the "EMISSION" selector switch on "CW" position.
- (cc) Hold the "TEST" switch closed and rotate control "L" (or "J") throughout its range, seeking a plate current dip indicating resonance of the circuit. Be sure meter circuit selector switch is in "P.A. PLATE" position.
- (dd) If no resonance was found, place control "K" (or "H") on the next higher position, hold the "TEST" switch closed, and rotate control "L" (or "J") again, seeking the dip in plate current.
- (ee) Repeat paragraph (dd) above until resonance is found.
- (ff) Adjust control "L" (or "J") to the position giving minimum plate current.
- (gg) Place the "CALIBRATE-TUNE-OPER-ATE" switch in the "OPERATE" position.
- (bb) This completes the tuning procedure, as there is no provision in the frequency range 200 to 1500 kilocycles for exact loading of the transmitter to the light colored area marked "CW" on the plate meter. The plate current may read anywhere from 10 to 110.

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Note:

If the low-frequency autotune mechanism should fail, it is only necessary to switch to "MANUAL" and set control "A" to position 13 and control "C" to position 8. Since the low frequency operation is only a switching procedure, it is possible to set the low frequency position on any of the 11 channels. It is only necessary to lock control "A" on position 13 and control "C" on position 8 on the channel it is desired to use as a substitute for the "L. FREQ." position.

- (ii) Note that the tuning reactance present in Antenna Loading Coil CU-25/ART-13 (200-600 kc) may not be sufficient to resonate all fixed wire antennas down to 200 kc. It will resonate a 200-foot trailing wire antenna over the frequency range of 200-600 kc. The tuning reactance present in Antenna Loading Coil CU-26/ART-13 may not be sufficient to resonate all fixed wire antennas down to 500 kc. It will resonate a 200-foot trailing wire antenna over the frequency range of 600-1100 kc and a 150-foot trailing wire antenna over the frequency range of 1100-1500 kc.
- (jj) Be careful to avoid operation on a harmonic of the desired frequency. In the type of tuning network used, the antenna is a part of the plate tuning circuit. Therefore, if the antenna is too short, it will not be possible to tune the lower end of the frequency range. To determine the lowest frequency that it is possible to tune, proceed as follows:
- I. Set the "EMISSION" switch to "VOICE," the "CHANNEL" switch to "L. FREQ.," the meter selector switch to "P.A.PLATE," and the antenna changeover switch to the "FIXED" position.
- 2. Set control "K" to position 1 and control "L" to zero.
- 3. Make certain that control "A" stops on position 13 and control "C" on position 8. If not, set and lock the autotune in those positions.
- 4. Set control "F" on position 1 and control "G" on zero.
 - 5. Set the power level switch to "TUNE."
- 6. Close the "TEST" switch and rotate control "G" toward a higher reading, watching for a resonance dip in plate current.
- 7. If the resonance dip is not found before control "G" is rotated to its extreme position, set control "F" on position 2, control "G" to zero, and repeat closing the "TEST" switch and rotating control "G" towards a higher reading again.
- 8. Set control "G" on the position that corresponds to the minimum plate current as found by the above method and release the "TEST" switch.
- 9. Determine the frequency indicated by the readings on control "F" and "G". Installation of this length and type of fixed antenna cannot be tuned to any frequency below that obtained by this process. It may appear that proper operation is obtained by continuing the tuning procedure to higher positions of control "K," but this results in operation on a harmonic of the desired frequency and will cause complete lack of communication. This same procedure may be used for the smaller load coil by substituting control "H" for "K" and control "J" for "L."

- (4A) CW OPERATION INTO FIXED OR TRAILING ANTENNA—CRYSTAL OSCIL-LATOR (300 to 500 Kilocycles).
- (a) With the CDA-T in use, replacing the low frequency unit (either O-16/ART-13 or O-17/ART-13A), the transmitter loading operations will remain primarily the same as outlined in paragraphs 7 a and 7 b of Section II. The differences are as follows:
- 1. The "VFO/XTAL" Switch on the CDA-T Unit must be thrown to "XTAL".
- 2. Through either manual or autotune operation, the transmitter "A" dial must be set on position 13, and the "C" dial on position 8. (Dial "B" has no function when using any of the low frequency units).
- 3. The 4-position switch (S-803), on the CDA-T Unit must be rotated to select the desired frequency of the four crystal-controlled frequencies available. This change in low frequency is possible only at the transmitter, and remote control must accept the frequency for which this switch is set.
- 4. Calibration charts are not required when using the CDA-T low frequency oscillator, as it's output is directly coupled to the transmitter power amplifier tube.
- 5. Meter readings for low frequency crystal operation, as with high frequency crystal operation, will be lower than for VFO operation.

(5) VOICE OPERATION.

- (a) Adjust the transmitter for CW operation and place "EMISSION" switch on "VOICE" position. No further tuning adjustments are necessary.
- (b) Be sure the microphone selector switch under the tuning chart on the front panel of the transmitter is in the position corresponding to the type of microphone being used.
- (c) Press the button on the microphone or in its cord and hold it depressed while speaking. Release it to listen.

Note:

When the meter switch is in "P.A.PLATE" position, the meter indicates the sum of the power amplifier and modulator plate currents and will, therefore, read slightly higher on "VOICE" than on "CW." With normal modulation the plate current meter will read in the red area above the portion marked "CW" and may hit the meter peg with heavy modulation during normal operation.

(6) MCW OPERATION.

(a) Adjust the transmitter for CW operation and place "EMISSION" switch on "MCW" position. No further adjustments are necessary.

(b) Key the transmitter for normal operation.

Note:

The normal meter reading on "MCW" when the meter switch is in "P.A.PLATE" position, key down, will be in, or slightly above, the light colored area marked "MCW."

- (7) ADJUSTMENT OF SIDETONE LEVEL.
- (a) Lift the chart on the front panel of the transmitter.
- (b) Listen in the headphones while holding the "TEST" switch closed and adjust the "OUTPUT" control for proper volume of signal. Check the volume on each type of emission; "MCW," "CW," and "VOICE."

(8) USE OF TRANSMITTER CHART

After the transmitter has been set on the desired channels, enter the readings of controls "A", "B", "C", "D" and "E" on the chart on the transmitter. Make these entries after the autotune has been channeled into each channel set up, and after the operation has been checked. Show the "A", "B" and "VFO" frequencies set up on each high frequency channel. If VFO is used, set the vernier scale or single index mark for control "B" with the zero line of the vernier directly above the dial, and record the reading of the dial with the vernier scale in that position. This will enable the operator to check the settings even after the movable vernier scale has been adjusted to set up another channel. If the shunt capacitor is necessary on any of the frequencies set up, write the number of sections required, following the number of the channel. The four low operating frequencies are likewise entered on the chart. Record the settings of controls "P", "Q" and "R" on th Antenna Loading Unit CU-32/ART-13A, or "K" and "L" on Antenna Loading Coil CU-25/ART-13, and indicate whether for fixed or trailing antenna. To minimize tuning in the air, leave controls "P", "Q" and "R" on the positions for fixed antenna operation and record the positions for trailing antenna on the chart, or reverse the order if desired.

(9) PREPARATION FOR OPERATION.—The transmitter uses tubes which require at least 30 seconds to warm up before operation. If conditions permit, have the transmitter in readiness for operation

by leaving the "EMISSION" switch in "VOICE" position during the entire flight. This is a "standby" condition and eliminates the 30 second delay waiting for the tubes to warm up.

- c. SIMPLIFIED PROCEDURES FOR SETTING THE CONTROLS.
- (1) GENERAL.—The following procedures are for setting the controls using the approximate dial settings following the calibration tables.
- (2) SIMPLIFIED CW OPERATION INTO FIXED ANTENNA (2000 to 18,100 kilocycles).
- (a) Follow instructions in paragraphs 7b(2) (a) through (s).
- (b) Set the control "C," "D," and "E" to the positions indicated in the table of approximate dial settings for the desired frequency. Be sure to use the column under the correct length of antenna. (Table 5.7 in this manual.)
 - (c) If control "C" is on position 7 or below.
- 1. Hold "TEST" switch closed and adjust control "E" to=the position at resonance indicated by the dip in plate current.
- 2. Place the power level switch on "OPER-ATE" position.
- 3. If the plate current meter reading is above the area marked "CW" move control "D" a few divisions lower and readjust control "E" for minimum plate current. Repeat until the plate current reading is in the area marked "CW." If the plate current meter reading is below the area marked "CW" move control "D" a few divisions higher and readjust control "E" for minimum plate current. Repeat until the plate curent reading is in the area marked "CW." Do not leave the control on any position other than that at the resonance dip. Lock control "C," "D," and "E."
 - (d) If control "C" is on position 8 or above.
- 1. Hold "TEST" switch closed and adjust control "D" to the position at resonance indicated by the dip in plate current.
- 2. Place the power level switch on "OPER-ATE" position.
- 3. If the plate current meter reading is above the area marked "CW," move control "E" a few divisions lower and readjust the control "D" for minimum plate current. Repeat until the plate current reading is in the area marked "CW." If the plate current meter reading is below the area marked "CW," move control "E" a few divisions higher and readjust control "D" for minimum plate current. Repeat until the plate current reading is in the area marked "CW." Do not leave the controls on any position other than at the resonance dip. Lock control "C," "D" and "E."

- (3) SIMPLIFIED CW OPERATION INTO FIXED OR TRAILING ANTENNA (200 to 600 kilocycles) WHEN USING ANTENNA LOADING UNIT CU-32/ART-13A.
- (a) Follow instructions in paragraph 7 (4) (a) through (a).
- (b) Set controls "P" and "Q" on the positions indicated in the table of approximate dial settings for the frequency below the desired frequency. Be sure to use the column under the correct length of antenna.
- (c) Follow the instructions in the regular procedure starting with paragraph 7b(4)(s).
- d. PROCEDURES FOR SETTING THE CONTROLS OF RADIO TRANSMITTING SET AN/ART-13B (MANUAL OR AUTOTUNE OPERATION).
- (1) GENERAL.—Radio Transmitting Set AN/ART-13B employs both variable frequency oscillator (VFO) operation and crystal-controlled (XTAL) operation. When operated as a VFO transmitter, utilizing Oscillator O-17/ART-13A, procedures for setting all controls are exactly as outlined for Radio Transmitting Set AN/ART-13A in paragraph b. of this section. For VFO operation on the high frequency range, with the CDA-T Oscillator in use, the transmitter controls are set as outlined for the AN/ART-13A, with the addition of one operation; that is the setting of the "VFO-XTAL" switch, on the CDA-T panel, to "VFO".

Crystal-controlled operation is obtainable only with use of the CDA-T Oscillator unit, and its "VFO-XTAL" switch turned to "XTAL". "MANUAL" operation is not possible with crystal-controlled operation. All transmitter and loading coil adjustments for crystal-controlled operation (excepting the frequency controls "A" and "B") are performed the same as described in paragraph b, of this section. Crystal-controlled frequency adjustment procedures are as follows.

- (2) FREQUENCY ADJUSTMENTS-CRYSTAL CONTROLLED OPERATION.-Since manual control is inoperative with crystal-controlled operation, ten high frequency and one low frequency channels are available with autotune selection. Through use of an "A-B" switch on the CDA-T panel, two frequencies are available on each of the ten high frequency "CHANNEL" switch positions. A 4-position switch, also on the CDA-T panel, permits selection of four low frequencies with the "CHANNEL" switch in the "L.-FREQ." position.
- (3) HIGH FREQUENCY RANGE.—Utilizing the "A-B" switch, two frequency channels are available on each of the autotune "CHANNEL" switch positions, 1 through 10. Selection of frequencies with the 1670 to 18,000 kc range are limited only by the available crystals and the individual range of each setting of the transmitters "A" control. "CHANNEL" switch positions of the autotune mechanism are not restricted

to any particular setting of the "A" control and several frequency outputs within a narrow frequency range are possible, providing crystals are available for each channel desired. The crystal frequency used, however, must be suitable for the frequency range of the chosen "A" control setting.

Note

For frequencies from 1,670 kc through 2,000 kc, place the "EXTENDED-NORMAL" switch in "EXTENDED" position. For frequencies from 2,000 kc through 18,000 kc, place the "EXTENDED-NORMAL" switch in "NORMAL" position.

- (a) Place the antenna selector switch on the antenna loading unit on "FIXED ANT." position. Make certain that the microphone, key and throttle switch (T.S.) jack circuits are open.
- (b) Place "LOCAL-REMOTE" switch in "LOCAL" position, the "VFO-XTAL" switch in "XTAL" position and the "A-B" switch in the "A" position. Turn the "EMISSION" switch to "VOICE".
- (c) Check crystals for proper seating and frequency. Channel the autotune to position 1. When cycling has stopped, check the frequency range of the control "A" setting, to be sure it is suitable for the crystal employed. If not suitable, change either the crystal or retune control "A" to the proper frequency range setting. Lock this control. Unlock the other transmitter controls; set control "C" to position 1.
- (d) Place "EMISSION" switch on "CW" position. Check the grid drive to the final amplifier by placing the meter switch on "P.A.GRID" position, closing the "TEST" switch, and noting the reading on the meter. If no reading, or a very low reading is observed, close the "TEST" switch, at the same time varying the "B" control setting. The grid drive indication will vary as the "B" control setting is changed. Adjust this setting for maximum grid drive reading.
- (e) Set the remaining transmitter loading controls, as described in paragraph b, to obtain proper P.A. Plate dip indication, and maximum antenna current reading.
- (f) Channel the autotune to channel 2, and when cycling starts, turn the "CHANNEL" switch back to position 1. Again check the grid drive and P.A. Plate readings, which should be approximately the same as previously obtained.
- (g) Channel the autotune to each of the remaining nine high frequency channels and tune as outlined for channel 1.
- (b) If two frequency outputs are desired for any one position of the "CHANNEL" switch, their frequencies should not be separated by more than 3%. The exact amount of separation possible will be determined by the output frequency and the antenna characteristics into which the transmitter operates. Adjust the setting

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of control "B" as outlined with the "A-B" switch on "A". Record the setting of this control for maximum grid drive reading. Throw the "A-B" switch to "B" and determine the setting of control "B" for maximum grid drive indication. Finally, set control "B" midway between the two settings obtained with maximum grid drive for the "A" and "B" crystals. Repeat this procedure for all channel switch positions for which two crystals are in use.

- (4) LOW FREQUENCY RANGE.—Utilizing the 4-position selector switch, located on the CDA-T panel, four low frequency outputs within the range of 300 to 500 kc are possible. It will be noted that only three low frequency crystal sockets are provided, requiring the use of a dual crystal holder in one socket. Due to the physical limitations of this holder, its two crystals must be within the range of 400 to 500 kc. Remote control of low frequency operation is possible, only on one frequency, as the 4-position switch must be operated manually and its setting will determine the frequency obtained by the remote control operator.
- (a) Place the antenna selector switch on the antenna loading unit in the fixed antenna position. Make certain that the microphone, key and throttle switch (T.S.) jack circuits are open. Place "LOCAL-REMOTE" switch in "LOCAL" position, the "EMISSION" switch in "VOICE" position, the "VFO-XTAL" switch in "XTAL" position, and the 4-position low frequency selector switch in position 1.
- (b) Place "CHANNEL" switch in "L.FREQ." position and wait until the autotune stops. Control

- "A" should stop on position 13. If not in this position when cycling is complete, unlock control and set to 13. Set control "C" to position 8. (Control "B" is not required for low frequency crystal operation.)
- (c) Place the meter switch on "P.A.GRID"; the "EMISSION" switch on "CW", and check for grid drive by closing the "TEST" switch and noting the meter reading. P.A.GRID meter readings will be lower than those obtained for the high frequency ranges.
- (d) Adjust the variable choke, L-803, located at the top rear corner of the CDA-T unit, to obtain maximum grid drive indication.
- (e) Turn the 4-position switch to the remaining three positions, and check for grid drive. Adjust the variable choke, as required, to obtain maximum grid drive reading for each switch position. This choke setting will vary slightly for each of the low frequency output frequencies, and should finally be set to obtain sufficient grid drive with all crystals employed.
- (f) Set all other transmitter and loading coil adjustments as outlined in paragraph b. (4) (o) through (y) of this section, to obtain proper P.A. Plate dip indication and maximum antenna current reading. When more than one low frequency crystal is employed, optimum transmitter performance on any one frequency requires readjustment of the variable choke (for grid drive peaking) and the transmitter loading controls, with a resultant lowering of output at the remaining low frequency channels.

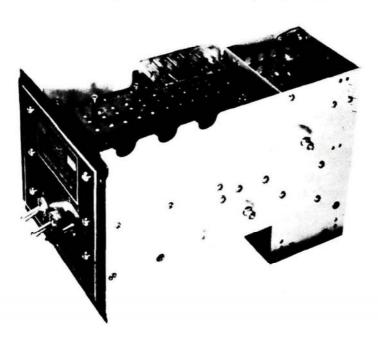


Figure 2-14-Crystal Controlled Oscillator Unit (CDA-T) - Front Side View

SECTION III OPERATION

CAUTION

NO transmissions will be made on emergency (distress) HF Channels except for emergency purposes. For testing, demonstration or drill purposes, radio equipment will be operated into a non-radiating dummy load instead of an Antenna to prevent transmissions of false distress signals.

1. STARTING AND STOPPING.

- a. TO START.—Turn "EMISSION" switch to "VOICE" position.
- b. TO STOP.—Turn "EMISSION" switch to "OFF" position.

2. OPERATION DURING NORMAL USE.

- a. Check "LOCAL-REMOTE" switch on the transmitter panel to make sure it is in the proper position according to whether operation is desired from the transmitter panel or from the remote control unit. If the CDA-T Crystal Oscillator is installed in the transmitter, check the "VFO/XTAL", "A-B" and 4-position low frequency switches to see that each is set according to the frequency and type of operation desired.
- b. Place the emission switch on "VOICE" if the equipment is turned off or leave it on "VOICE," "CW," or "MCW" if equipment is already on and place "CHANNEL" switch on the position corresponding to the frequency on which transmission is desired. This may be found on the chart on the front panel of the transmitter. If there is a number (1, 2 or 3) after the channel number on the chart and in the same box with it, make sure that the number of sections of the shunt capacitor are connected and that Switch SA-46/ART-13A is closed.
- c. When red pilot light comes on (it will take about 25 seconds for the autotune to seek the proper position), place the emission switch on the position corresponding to the type of emission desired; "VOICE," "CW" or "MCW." If operation is in the range 200 to 1500 kc, check to make sure that the proper frequency is set up on controls "F" and "G" and that the antenna circuit is in resonance before attempting operation.
- d. Operate the transmitter with the microphone and its associated switch if "VOICE" operation is desired or with the key if "CW" or "MCW" is desired.

CAUTION

Under no circumstances should the transmitter be actually operating (key down or microphone switch closed) when the emission switch is being operated. Such operation, especially at high altitudes, can cause an arc to occur and damage the contacts of relays. Never leave the Autotune controls in any position other than against the stops in a clockwise direction. The mechanism always leaves them in the proper position and they should not be tampered with after cycling. Proper positioning may be checked by applying a firm but not heavy force to each control in a clockwise direction until the control strikes the stop.

3. DEFENSE AGAINST RADIO JAMMING.

- a. GENERAL.—Jamming is the intentional generation by the enemy of radio signals designed to make friendly signals unreadable and to surprise and confuse the radio operators. The various types of jamming are described in section 5, paragraph 4.
- b. PROCEDURE.—If bad interference is received and jamming is suspected, proceed as follows:
- (1) Remove the antenna from the binding post of the receiver. If the noise level drops appreciably, the interference is coming from outside the receiver. If the noise does not diminish there is something wrong with the receiver.
- (2) Tune the receiver several hundred kilocycles each side of the desired signal. If there is no change in intensity of the interference something close at hand is the cause. If the interference extends only over a short frequency band it is probably jamming.
- (3) Report jamming immediately to the commanding officer.
- (4) Use a crystal filter when available. Tune the receiver slowly back and forth across the desired signal to find the position where the signal is the clearest.
- (5) Use a noise limiter when available. If no limiter is available turn the receiver gain up as high as it will go. To make this less hard on the ears put a handkerchief between the ears and headphones or just turn the headphones around so they are facing away from the ears.
- (6) Change the BFO setting when working with CW. This will often put the message on one audio tone and the jamming on the other. With some types of jamming the signal can be heard better with the BFO cut off. Also try turning the gain control to a very low level.

- (7) Change to an alternate frequency and call sign if the primary frequency is badly jammed. Tune up quickly and accurately using a dummy antenna if available. If not, tune up at reduced power.
- (8) Generally CW is the most difficult to jam. Tone telegraph should also be tried. When using radiophone use the phonetic alphabet and speak each word twice.
 - (9) Beware of fake messages slipped into the jam-

ming by the enemy. In case of doubt authenticate. Don't allow the enemy to distract attention with conversation.

(10) Do not shut down. That is exactly what the enemy wants to happen and it would let him know that the jamming is effective. Practice, concentration, and persistence will enable an operator to work through jamming many times stronger than the desired signal.

SECTION IV EMERGENCY OPERATION AND REPAIR

1. EMERGENCY TROUBLE-SHOOTING (IN FLIGHT).

The information presented here is intended to assist the technically trained operator to rapidly locate a source of trouble and make emergency repairs to the equipment while in flight. Use of the following chart, showing symptoms, causes and emergency remedies, for troubles that are most frequent causes of transmitter failure, should simplify and expedite the location and correction of the fault. It should be noted that this chart is intended for use only while in flight since it does not include information on troubles that require more involved repairs or parts replacement that cannot be accomplished in flight. Complete and detailed trouble-shooting may be accomplished, after the airplane has returned to its base, by using similar but more detailed trouble-shooting charts in section V of the maintenance handbook. See Figure 2-1 for tube placement.

Symptoms	Probable Cause	Emergency Remedy	
1. Autotune does not run and tubes do not light.	1a. Open circuit breaker.	1a. Check circuit breakers in 28 volt supply lines to equipment.	
	1b. Open overload relay on dynamotor unit.	1b. Press "TRANS. RESET" button on front of dynamotor unit.	
2. Dynamotor does not start but Autotune runs and tubes light.	2a. Open overload relay on dynamotor.	2a. Press "DYNARESET" button on front of dynamotor unit.	
	2b. Interlock switch does not close.	2b. Short terminals of contact switch.	
3. No R-F output on any frequency. Autotune runs, tubes light, and dynamotor starts.	3a. Control "C" is incorrectly set.	3a. Unlock the dial and rotate it back and forth through a small range while holding "TEST" switch closed. If R-F output is obtained, lock control near proper number so that transmitter will operate even if dial is not set exactly on the indicated position.	
	3b. Blown fuse on dynamotor.	3b. Check fuse in holder labelled "400V." If blown, spare fuse is located in adjacent holder labelled "SPARE."	
	3c. Vacuum switch failure (glass is cracked or arcing occurs inside the switch).	3c. Turn off equipment. Remove wire from the "ANT" post and connect it to the "COND." post. Add wire from "RECEIVER" post on transmitter to antenna (either fixed or trailing wire) that is not being used for transmission. Be sure trailing wire is reeled out. This operation may damage receiver if wire now connected to receiver antenna "A" post is not disconnected during the transmission period. It is recommended that this wire be disconnected during transmissions.	

Symptoms	Probable Cause	Emergency Remedy
	3d. Antenna Loading Unit failure.	3d. Connect "ANT" post on transmitter directly to antenna lead-in. This will provide high frequency operation only.
	3e. "CALIBRATE - TUNE - OPERATE" switch set incorrectly.	3e. Be sure this switch is set to "OPERATE" position.
	3f. Faulty tube. Tubes V-104, V-103, V-102, V-101, V-801, V-802 or V-2601 are most likely offenders.	3f. Check tubes by replacement. Instructions for removing and replacing tubes are given in paragraphs 2, following this chart.
4. No R-f output on "L.FREQ." (200-600 kilocycles) range only. Other ranges are OK.	4a. Control "A" not set correctly.	4a. Be sure control "AW" is set exactly to position 13 ("L.FREQ.").
	4b. Faulty tube in low frequency oscillator.	4b. Check tube by replacement.
	4c. Fault in Antenna Load Unit.	4c. Cannot be corrected in flight. Use high frequency channels only.
5. No R-f output in 6 to 18 megacycles frequency range. Other ranges are OK.	5a. Faulty tube.	5a. Check tubes 813, V-102, and V-103 by replacement.
6. No R-f output in 2 to 6 megacycles frequency range.	6a. Faulty tube.	6a. Check tubes V-101 (or V-801), V-102 and V-103 by replacement.
Equipment will not operate from Remote Control Unit.	7a. Failure of Remote Control Unit or cable.	7b. Place "LOCAL-REMOTE" switch on transmitter panel in "LOCAL" position and operate equipment from its panel.
8. Autotune will not operate. Equipment is OK otherwise.	8a. Defect in "CHANNEL" switch.	8a. Turn switch to "MANUAL." If autotune operates, allow it to complete the cycle and then set all controls manually to their correct settings. If autotune still does not run, set 8b.
	8b. Defect in mechanism, and controls are "jammed."	8b. Loosen locking bars in all knobs and position each knob to correct setting.
9. Autotune operates but does not set all control knobs to their correct position.	9a. Faulty part in one or more of the autotune units.	9a. Try to turn the incorrectly set dial to correct position. If it will not turn, release the locking bar and then turn to correct setting.
10. No modulation on "MCW", but "VOICE" operation is OK.	10a. Faulty tube.	10a. Check tube V2203 by replacement (tube V-203 when MCW-CFI 8Q-1 unit is installed).
11. No modulation when "VOICE" operation is used.	11a. Faulty microphone plug or jack.	11a. Try connecting microphone to jack on remote control or transmitter panel.
	11b .Faulty tube.	11b. Check tubes V-201, V-202, V-203, V-105, and V-106 by replacement.
12. No sidetone but transmission is OK.	12a. Faulty tube.	12a. Check tube V-203 by replacement.
13. "BEAT NOTE" cannot be heard when crystal is attempting to calibrate.	13a. Defective: CFI Unit.	13a. Replace crystal.
	13b. Faulty tube.	13b. Check tubes V-2201, V-2202, and V-2203, by replacement (tubes V-301, and V-302 when MCW-CFI 8O-1 Unit is installed)

2. REPLACING TUBES.

a. Remove cover of transmitter by inserting coin or screwdriver in each hold-down screw and make a half turn counter-clockwise. Pry up cover.

WARNING

Be sure to turn off the entire equipment before replacing tubes. High voltage on caps at top of tubes is dangerous to life. Observe all safety precautions.

- b. The position of each tube is shown in figure 2-1 in this handbook. All tubes with exception of V-2601 (low frequency oscillator) are visible and accessible when transmitter top cover is removed. Tube V-2601 can be reached by removing the cover of LFO unit (this unit is located directly behind control, "G" and has perforated cover).
- c. Tube clamps are used on some tubes to prevent tube from coming out of socket when vibration occurs. To open clamp, insert screwdriver and gently pry ope. (see sketch in fig. 2-1). Clamps on tubes V-105 and V-106 are accessible through rear cover plate. Clamps on tubes V-102 and V-103 can best be reached from the top of transmitter. Obtain access to clamp on tube V-101 through side cover plate.
- d. To replace tube V-104, orient the base pin with the slot in the hole above the socket and then press down firmly until tube pins are solidly engaged in the socket.

3. REPLACING FUSE.

The only fuse used in this equipment is located on the dynamotor unit chassis. The holder containing the fuse is labelled "400V." To remove the fuse, unscrew the holder. A spare fuse is located in the adjacent holder labelled "SPARE,"

4. REPLACING DYNAMOTOR BRUSHES.

Remove end covers from dynamotor to obtain access to brushes. Replace brushes that are worn down to 1/4" or less. When removing a brush that has been used, mark the upper side with the polarity and number (if applicable) that appears on the bracket near that brush so that it can be replaced in the same holder and in the same direction as before. New brushes may be installed in any holder with either side up, although it is preferable to place the brush code marking down so that the blank side of the brush will be used for marking when it is removed.

5. SUBSTITUTION OF TUBES WHEN REPLACEMENTS ARE NOT AVAILABLE.

The following tube substitutions can be made when a replacement tube of the correct type is not available.

a. LOW FREQUENCY OSCILLATOR
Replace with one of the Multiplier tubes. This will
provide low frequency operation only.

- b. ONE MULTIPLIER TUBE V-102 OR V-103.— Interchange with the low frequency oscillator tube. A tube with a good filament must be in the low frequency oscillator socket at all times. This will provide high frequency operation only.
- c. TWO MULTIPLIER TUBES OR ONE MULTI-PLIER TUBE AND THE LOW FREQUENCY OS-CILLATOR TUBE.—Put the good tube in the first multiplier socket. Tubes with good filaments must be in the low frequency oscillator and the second multiplier sockets. This will provide operation in the frequency range 2000 to 6000 kilocycles.
- d. SPEECH AMPLIFIER V-201.—Use "CW" operation. No sidetone signal will be available.
- e. AUDIO DRIVER V-202.—Interchange it with the sidetone amplifier. There must be a tube with a good filament in the sidetone socket. This will provide normal operation with the exception of a sidetone signal.
- f. MODULATOR V-105 OR V-106.—USE "CW" operation. The modulator tubes must have good filaments.
- g. *DETECTOR AND MCW AUDIO OSCILLATOR V-2203.—Interchange it with the crystal oscillator tube. If there is a tube with a good filament in the crystal oscillator socket, all operation will be normal except the CFI will be inoperative. If the tube in the crystal oscillator socket does not have a good filament, only "VOICE" and "CW" operation are possible.
- e*. ANY COMBINATION INCLUDING ALL OF CRYSTAL OSCILLATOR V-2201, MIXER V-2202, DETECTOR AND MCW AUDIO OSCILLATOR V-2203, SIDETONE AMPLIFIER V-203.—There must be a good tube with a good filament in the sidetone amplifier socket. "VOICE" and "CV" operation are available.
- f*. ANY COMBINATION, INCLUD NG ALL OF CRYSTAL OSCILLATOR V-2201, M'XER V-2202, DETECTOR AND MCW AUDIO OSCILLATOR V-2203, SPEECH AMPLIFIER V-201, DRIVER V202, SIDETONE AMPLIFIER V-203, MODULATORS V-105 AND V-106.—There must be tubes with good filaments in the modulator sockets. "CW" operation is available.
- j. HIGH FREQUENCY OSCILLATOR V-101.— Interchange with the low frequency oscillator. The tube in the low frequency oscillator socket must have a good filament. It may be necessary to reset the frequency of operation since this interchange will cause the oscillator to shift from the original frequency. The tube must be replaced with the proper type as soon as possible. This interchange will provide high frequency operation only.

^{*}These steps can be performed only when MCW-CFI 8Q-2 Unit is installed in transmitter.

6. REGULAR INSPECTIONS.

- a. PREFLIGHT INSPECTION.—The radio transmitting equipment shall be given a rapid visual and operating inspection in accordance with the following:
- (1) Inspect antenna for proper security and ten sion.
- (2) Make a visual check for proper security of all set components.
 - (3) Turn on the liaison receiver.
- (4) Place "EMISSION" switch on "VOICE" with "LOCAL-REMOTE" switch on "LOCAL" and antenna selector switch on "FIXED ANT." ("FIXED" when Antenna Switching Unit SA-22/ART-13 is used).
- (5) Make sure the microphone selector switch is in the position corresponding to the type of microphone to be used.
- (6) Be sure the meter switch is on "P.A.PLATE" and the power level switch is on "OPERATE."
- (7) Place "CHANNEL" switch on a position corresponding to one of the frequencies to be used on the mission.
- (8) When the cycle is completed, check the settings of controls "A," "B," "C," "D," and "E" against readings on the transmitter chart with the zero line of the vernier scale on control "B" previously set so that it is directly above the dial.
- (9) Place "EMISSION" switch on "CW" and close "TEST" switch. The plate current should read in the area marked "CW."
- (10) Place the meter switch on "P.A.GRID." The meter should read in the area marked "P.A.GRID." Release the "TEST" switch and place the meter switch on "P.A.PLATE."
 - (11) Place "EMISSION" switch on "MCW."
- (12) Listen in the sidetone circuit and close the telegraph key. The receiver hiss should stop and the sidetone signal should be heard. The plate current should be in or near the area marked "MCW." Release "TEST" switch.
- (13) Place "EMISSION" switch on "VOICE." Press the microphone button. The plate current should read about 20 or 30 higher than on "CW." Speak or whistle into the microphone. The plate current should read near the area marked "MCW" and may read full scale on loud signals.
- (14) Check the control settings against the chart, the "P.A.GRID" and "P.A.PLATE" current on "CW" for each of the other channels it is desired to use on the mission. Connect the proper number of sections of the shunt capacitor for the channels requiring them as indicated on the chart. See section II, sub-paragraph 7b(8).
- (15) If the transmitter is crystal controlled (equipped with a CDA-T Unit), switch to "XTAL" operation and check out one channel in the high frequency range as outlined in items (4) through (13) above. With the channel switch on low frequency, follow this same procedure to check out any of the 4 switch positions on the CDA-T Unit.

- b. DAILY INSPECTION.—The radio transmitting equipment shall be given a thorough visual and operating inspection in accordance with the following:
- (1) Inspect Antenna for proper security and tension. Check condition of shock links and antenna wire, cleaning if dirty and replacing if defective. Clean insulators and replace if cracked or chipped.
- (2) Inspect the inter-unit connections for broken or damaged wires or cables and for high voltage wires that may be bent too near other objects.
- (3) Check the knurled knobs on the front of the transmitter and dynamotor unit, the microphone selector switch under the chart, and all connector plug olcking rings for tiewire.
- (4) Check the connection to the receiver, antenna, ground, loading unit, and transmitter making certain the spring connector terminals are making good with the wires.
- (5) Check all set components for security of mounting.
 - (6) Turn on the liaison receiver.
- (7) Place "EMISSION" switch on "VOICE" with "LOCAL-REMOTE" switch on "LOCAL" and antenna selector switch on "FIXED ANT." ("FIXED" when using Antenna Switching Unit SA-22/ART-13).
 - (8) Be sure the meter switch is on "P.A.PLATE" the power level switch is on "OPERATE."
- (9) Place "CHANNEL" switch on a position corresponding to one of the frequencies that is set up on the autotune.
- (10) When the cycle is completed, check the settings of controls "A," "B," "C," "D," and "E" against readings on the transmitter chart with the zero line of the vernier scale on control "B" previously set so that it is directly above the dial.
- (11) Place "EMISSION" switch on "CW" and close "TEST" switch. The plate current should read in the area marked "CW."

NOTE

If the meter does not indicate a "P.A.PLATE"

meter reading with the "CW" portion of the scale, some adjustment of the output loading may be necessary. Before attempting to readjust the output circuit for proper loading, check the battery voltage by rotating the meter switch to the "BATTERY VOLTAGE" position. Read the meter with the key depressed. If the meter reads within the light colored area under "BATTERY," the channel needs readjusting. If the meter reads above or below the colored area, the "P.A.PLATE" current may read above or below the area marked "CW" and the transmitter still be adjusted properly. No adjustment of the output controls should

(12) Place the meter switch on "P.A.GRID." The meter should read in the area marked "P.A.GRID."

meter on the transmitter.

be attempted if the supply voltage does not

read within the proper limits shown by the

Release the "TEST" switch and place the meter switch on "P.A.PLATE."

- (13) Place "EMISSION" switch on "MCW."
- (14) Listen in the sidetone circuit and close "TEST" switch. The receiver hiss should stop and the sidetone signal should be heard. The plate current should be in or near the area marked "MCW." Release "TEST" switch.
- (15) Place "EMISSION" switch on "VOICE." Press the microphone button. The plate current should read about 20 or 30 higher than on "CW." Speak or whistle into the microphone. The plate current should read near the area marked "MCW" and may bear full scale on loud signals.
- (16) Check the control settings against the chart, the "P.A.GRID" and "P.A.PLATE" current on "CW" for each of the other channels set up. Connect the proper number of sections of the shunt capacitor for the channels requiring them as indicated on the chart. See section II, paragraph 7b(8).
- (17) Check operation of the autotune on each of the channels not set up by cycling the autotune into each in turn and making sure the controls turn properly.
- (18) If remote operation is provided in the installation, check operation of the autotune from it by cycling each channel in turn and checking the setting of controls against the transmitter chart for each channel set up and that the controls turn properly on all other channels. Check the key on "CW", and proper operation on "MCW" and "VOICE" from the remote control unit on one channel.
- (19) Set "CHANNEL" switch on "L.FREQ." and let the autotune cycle.
- (20) Make sure that control "A" stops on 13 and control "E" on 8. If they do not, lock them in those positions.
- (21) If the antenna loading unit is supposed to be adjusted for operation into the fixed antenna on the frequency set up on the low frequency oscillator (see sec. II, par 7b(8)), unlock control "R" on the loading unit, close "TEST" switch, adjust control "R" to minimum plate current and release "TEST" switch. Lock control "R" in that position.
- (22) Cycle the transmitter into one of the frequencies set up in the high frequency range. Tune the receiver for "CW" operation on that frequency. Set "NORMAL-MONITOR" switch on "MONITOR" position and turn the power level switch on the transmitter to "CALIBRATE" position. It should be possible to hear a beat note and to tune the beat note to zero by rotating the receiver dial. Return the power level switch to "OPERATE" and the "NORMAL-MONITOR" switch to "NORMAL" position.
 - (23) Place "CHANNEL" switch on "MANUAL"

- and let the autotune cycle. All controls should move freely. Set control "C" on position 1, control "A" on 2, control "B" on 1910. Set power level switch on "CAL-IBRATE" position and listen in the sidetone circuit. A beat note should be heard and it should be possible to tune it to zero by rotating control "B." Replace the power level switch on "OPERATE" position.
- (24) Return "CHANNEL" switch to the position it was on originally and let the autotune cycle.
- (25) If the transmitter is equipped with a CDA-T Crystal Oscillator Unit, switch to "XTAL" operation and follow the procedure as outlined in paragraph 6. b. (1) through (23). When checking the low frequency operation, dial "A" must be in position "13", and the 4-position switch on the CDA-T Unit must be rotated to obtain the four low frequencies. When checking the high frequencies, the "A-B" switch must be operated to obtain the 20 crystal frequencies.
 - (26) Turn the transmitter and the receiver off.
- c. 100-HOUR INSPECTION.—The radio transmitting equipment shall be given a thorough and searching visual and operating inspection and a thorough cleaning in accordance with the following:
- (1) Remove the transmitter from its mounting by cutting the tiewire on the locking knobs on the front and on the plug locking rings on the left end, removing the plugs and wires from the sockets and terminals on the left end, loosening the knurled locking knobs on the front of the transmitter, and sliding the transmitter forward off its mounting.
- (2) Remove the cover and clean out all dust and dirt, particularly around isolantite bushings, stand-off, feed-through insulators, etc. Inspect for loose ends of wire, corrosion or other obvious defects.
 - (3) Inspect all relay contacts.
- (4) Inspect in accordance with section II, paragraph 2a(1).
- (5) Remove the dynamotor unit from its mounting by cutting the tiewire on the locking knobs and the plug locking rings on the front, removing the plugs from the front, loosening the knurled locking knobs and sliding the unit forward off its mounting.
- (6) Remove the end covers and clean the interior of the machine.
- (7) Remove and inspect the brushes. Replace those less than one-quarter inch long (see par. 4, this section). Be sure to mark the top of each brush removed with the polarity and number (if appiclable) that appears on the end bracket near the respective brushes. When replacing brushes, be sure to put them back in the same holder and the same side up as removed.

- (8) Inspect the commutators and smooth them with 00 sandpaper if they are rough.
- (9) Replace the end covers and inspect in accordance with section II, par. 2a(2), and, in addition, inspect all relay contacts for pits and burns and all parts for corrosion. Clean the interior.
- (10) Remove the antenna loading unit by cutting the tiewire on the four snapslides and the plus locking ring, removing the plugs and the wires to the terminals, loosening the snapslides, and lifting the unit out.
- (11) Inspect in accordance with section II, par. 2a(5), and, in addition, clean the interior and inspect for corrosion.
- (12) If the antenna shunt capacitor is a part of the installation, check it in accordance with section II, par. 2a(4) without removing it from the plane.
- (13) If the remote control unit is a part of the installation, remove it by cutting the tiewire on the plug locking ring, removing the plug, and loosening the four screws in the corners of the unit.
- (14) Inspect in accordance with section II, par. 2a(3), and, in addition, clean and inspect for corresion.
- (15) Reinstall all units in accordance with instructions given in section II, par. 3.
- (16) Check in accordance with the Daily Inspection procedure outlined in pars. 6b(1) through (25) of this section.
- 7. REPLACEMENTS OF DEFECTIVE ITEMS. (See paragraphs 2, 3 and 4 this section.)

Try to localize trouble by replacing MCW-CFI unit, audio amplifier unit, or low frequency oscillator. If proper operation is obtained by replacing any of the

- above units, leave the good one in the transmitter and send the defective one for repair.
 - a. To remove the MCW-CFI unit, proceed as follows:
- (1) Loosen the two screws of contrasting color, one at each end of the unit.
 - (2) Lift the unit out.
- b. To remove the audio amplifier unit, proceed as follows:
- (1) Loosen the two screws of contrasting color, one at each end of the unit.
- (2) Unlock and remove the master oscillator tube (JAN-837).
- (3) Lift the unit high enough to disengage the plug pins, then move it backward to clear the screw heads on the ends, and lift it out.
- c. To remove the low frequency oscillator, proceed as follows:
- (1) Remove the JAN-813 tube by removing the plate cap, inserting a small screwdriver under the tube base through one of the ventilating holes in the back, and exerting a light pressure upward while wiggling the tube gently from side to side. The tube lifts straight out: do not twist it.
- (2) Remove the lead on the right side of the oscillator where it enters the unit.
- (3) Remove the two screws from the back of the oscillator through the space left by removal of the JAN-813 tube.
- (4) Remove the seven screws from around the edges of the oscillator's front panel and loosen the adjacent screws across the top of the autotune cover.
 - (5) Lift the oscillator straight up.

SECTION V SUPPLEMENTARY DATA

1. TUBE COMPLEMENT.

a. For Radio Transmitter With Oscillator 0-17/ART-13A and MCW-CFI 8Q-2 Unit Installed.

Reference Symbol		Type De	signation	
	Stock No.	JAN-	JAN- VT- F	Function
V-101	2J837 or 2V101	JAN-837	VT-101	High Frequency Oscillator
V -102	2J1625 or 2V136	JAN-1625	VT-136	1st Frequency Multiplier
V-103	2J1625 or 2V136	JAN-1625	VT-136	2nd Frequency Multiplier
V-104	2J813 or 2V144	JAN-813	VT-144	Power Amplifier
V-105	2J811 or 2V217	JAN-811	VT-217	Modulator

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Reference Symbol	Type Designation			
	Stock No.	JAN-	VT-	Function
V-106	2J811 or 2V217	JAN-811	VT-217	Modulator
V-201	2J12SJ7 or 2V162	JAN-12SJ7	VT-162	1st Audio Amplifier
V-202	2V6V6GT or 2V107-A	JAN-6V6GT	VT-107-A	Audio Driver
V-203	2V6V6GT or 2V107-A	JAN-6V6GT	VT-107-A	Sidetone Amplifier
V-2201	2J12SL7GT	*JAN-12SL7GT		1st Section is 200 kc. calibration oscillator. 2nd Section is Frequency Tripler
V-2202	2J12SA7 or 2V-161	*JAN-12SA7	VT-161	Detector
V-2203	2J12SL7GT	*JAN-12SL7GT		1st Section is Signal Detector. 2nd Section is MCW Audio Oscillator.
V-2601	2J1625 or 2V136	JAN-1625	VT-136	Low Frequency Oscillator.

^{*}Types JAN-12SL7GT and JAN-12SL7 may be used interchangeably. Types JAN-12SA7 and JAN-12SA7GT may be used interchangeably.

b. For Radio Transmitter With Oscillator 0-16/ART-13 and MCW-CFI 8Q-1 Unit Installed.

V-101	2J837 or 2V101	JAN-837	VT-101	High Frequency Oscillator
V-102	2J1625 or 2V136	JAN-1625	VT-136	1st Frequency Multiplier
V-103	2J1625 or 2V136	JAN-1625	VT-136	2nd Frequency Multiplier
V-104	2J813 or 2V144	JAN-813	VT-144	Power Amplifier
V-105	2J811 or 2V127	JAN-811	VT-217	Modulator
V-106	2J811 or 2V217	JAN-811	VT-217	Modulator
V-201	2J12SJ7 or 2V162	JAN-12SJ7	VT-162	1st Audio Amplifier
V-202	2J6V6GT or 2V107-A	JAN-6V6GT	VT-107-A	Audio Driver
V-203	2J6V6GT or 2V107-A	JAN-6V6GT	VT-107-A	Sidetone Amplifier
V-301	2J12SJ7 or 2V162	JAN-12SJ7	VT-162	Calibration Oscillator
V-302	2J12SJ7 or 2V162	JAN-12SJ7	VT-162	MCW Oscillator
V-401	2J1625 or 2V136	JAN-1625	VT-136	Low Frequency Oscillator

c. For Radio Transmitter with Oscillator CDA-T and MCW-CFI 8Q-2 Unit Installed.

n days and	Type Designation			
Reference Symbol	Stock No.	JAN-	VT-	Function
V-101	2J837 or 2V101	JAN-837	VT-101	High Frequency Oscillator
V-102	2J1625 or 2V136	JAN-1625	VT-136	1st Frequency Multiplier
V-103	2J1625 or 2V136	JAN-1625	VT-136	2nd Frequency Multiplier
V-104	2J813 or 2V144	JAN-813	VT-144	Power Amplifier

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V-105	2J811 or 2V217	JAN-811	VT-217	Modulator
V-106	2J811 or 2V217	JAN-811	VT-217	Modulator
V-201	2J12SJ7 or 2V162	JAN-12SJ7	VT-162	1st Audio Amplifier
V-202	2V6V6GT or 2V107-A	JAN-6V6GT	VT-107-A	Audio Driver
V-203	2V6V6GT or 2V107-A	JAN-6V6GT	VT-107-A	Sidetone Amplifier
V-2201	2J12SL7GT	*JAN-12SL7GT		1st Section is 200 kc. calibration oscillator. 2nd Section is Frequency Tripler.
V-2202	2J12SA7 or 2V161	*JAN-12SA7	VT-161	Detector
V-2203	2J12SL7GT	*JAN-12SL7GT		1st Section is Signal Detector. 2nd Section is MCW Audio Oscillator.
V-801	2J6AQ5	JAN-6AQ5		Low Frequency Oscillator
V-802	2J1625 or 2V136	JAN-1625	VT-136	High Frequency Oscillator

^{*}Types JAN-12SL7GT and JAN-12SL7 may be used interchangeably. Types JAN-12SA7 and JAN-12SA7GT may be used interchangeably.

2. FUSE COMPLEMENT.

			Loc	ation
Type No.	Stock No.	Current Rating	Active Fuse	Spare Fuse
Aircraft type	8800-337360	1 amp.	Dynamotor "400V"	Dynamotor "SPARE"

3. PILOT LAMP COMPLEMENT.

Type Designation	Stock No.	Location
General Elec. #313 General Elec. #313		Inside Transn itter Inside Control Box

4. RADIO JAMMING.

Types of jamming likely to be employed by the enemy are:

a. "Spark" jamming is the familiar type of noise obtained from small electric motors, razors, ignition system, etc.

- b. "Sweep-through" jamming is the result of sweeping a carrier back and forth across a frequency band at a relatively rapid rate (100 to 600 cycles per second.) The resulting noise is much like that of an airplane engine.
- c. "Stepped tone" is a monotonous repetition of three to five audio tones which resembles the Scotch hagpipe. The Germans use this regularly.
- d. "Noise jamming sounds the same as noise which is heard when the gain is turned up on a radio receiver that is not tuned to a signal. It may easily be mistaken for receiver noise.
- e. Combinations of any of the above types of jamming can be used.

5. PROCEDURE FOR SETTING RECEIVER BC-348 ON A PRE-SELECTED FREQUENCY USING RADIO TRANS-MITTER T-47/ART-13 OR T-47A/ART-13 AS A FREQUENCY METER.

a. GENERAL.—The following procedure is to be used for setting the liaison receiver on a pre-selected frequency when it is desired to set the receiver with greater accuracy than the calibration of the receiver provides.

b. PROCEDURE.

- (1) Place "LOCAL-REMOTE" switch in "LOCAL" position.
- (2) Place "EMISSION" switch in "VOICE" position.
- (3) Place "CHANNEL" switch in "MANUAL" position and let the autotune complete its cycle.
 - (4) Set control "C" on position 1.
- (5) Find the desired frequency in the calibration table for the transmitter and note the nearest crystal check point marked in heavy black type.
- (6) Set controls "A" and "B" to the position indicated by the table for the crystal check point.
- (7) Set the power level switch to "CALIBRATE" positions and listen in the sidetone circuit for a beat note while rotating control "B" back and forth about the position for the crystal check point. Set control "B" on the position that gives zero beat and turn the power level switch to "TUNE" position.
- (8) Set the movable indicator mark by means of the "CORRECTOR" knob near control "B" to the reading of control "B" found in column B at this crystal check point,
- (9) Refer to the calibration table and obtain the correct setting of control "B" for the frequency it is desired to set on the receiver and set control "B" to that reading.
- (10) Turn the receiver on and set the "NORMAL-MONITOR" switch in the airplane to "MONITOR" position.
- (11) Set the "C.W. OSC" switch on the receiver in the "ON" position.

- (12) Set the "BAND SWITCH" and "TUNING" control on the receiver to the positions corresponding to the frequency it is desired to set up according to the calibration of the receiver.
- (13) Set the "BEAT FREQ" control so that the arrow points straight up.
- (14) Place the power level switch on the transmitter to "CALIBRATE" position.
- (15) Listen in the sidetone for a beat note and adjust the "TUNING" dial on the receiver to the position corresponding to zero beat.
- (16) Turn the level switch on the transmitter back to "OPERATE" position and the "NORMAL MONITOR" switch back to "NORMAL."
- (17) Turn the "CHANNEL" switch on the transmitter to the position corresponding to the frequency desired for transmission.

The equipment is now ready for operation. Type of emission may be chosen on the transmitter with the "EMISSION" switch. The receiver may be used for any type of reception and any dial on the receiver may be used except the "BAND SWITCH" and the "TUNNING" dial without disturbing the frequency set up.

CALIBRATION TABLES 5-1, 5-2, 5-3, 5-4, 5-5, and 5-6.

The calibration tables numbered 5-1, 5-2 and 5-3 are for the MCW-CFI-8Q-2 Unit. The first column, headed "FREQ." is the frequency column, the other columns are headed with the letter identifying the control. Tables 5-4, 5-5 and 5-6 are for the MCW-CFI 8Q-1 Unit. The figures in heavy black type are crystal check points.

In tables 5-1 and 5-2 horizontal lines appear at intervals in the columns which serve to indicate the direction of the nearest check point. In these tables always use the check point which appears between the same horizontal dividing lines that the desired frequency appears between. In tables 5-3, 5-4, 5-5, and 5-6 use the first check point (heavy type) that is encountered by either looking back to succeedingly lower frequencies or by looking ahead to succeedingly higher frequencies. The note at the bottom of each table will aid in locating the proper check point.

6A. CALIBRATION INSTRUCTIONS FOR OSCILLATOR O-16/ART-13 (WHEN MCW-CFI 8Q-2 UNIT IS USED.)

If the low-frequency oscillator circuit components have been damaged or replaced, the grid circuit may require realignment. To realign the circuit, perform the following after installing a low-frequency oscillator in the transmitter:

- a. Turn control "F" to position "6" (1035 kc to 1500 kc).
- b. Rotate "CHANNEL" selector switch \$108 to the "LOW FREQ." position.
- c. Turn "EMISSION" selector switch \$110 to the "VOICE" position.
- d. When the auto tune cycle has been completed, check the position of control "A." The control should

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stop in position "13." If the control stops in any position other than "13," loosen the locking bar and manually operate control "A" to position "13,"

- e. Refer to table 5-3, section V and select a dial setting under column G that is near the middle of the tuning range. If there is a dial setting listed on each side of the midpoint of the tuning range, select the dial setting on the high-frequency side. For example, 1073 in column G is very near the midpoint of the tuning range of the control. (The exact midpoint is 1000.)
- f. Rotate control "G" to the dial setting that has been chosen from the calibration table.
- g. Operate power level switch \$106 to the "CALIBRATE" position. (This applies 1150 volts d-c to the plates of V104, V105, and V106.)
- b. Insert an earphone cord plug into "SIDE-TONE" output jack J104.
- i. While listening to the sidetone amplifier output, rotate control "G" about the setting obtained from the calibration table until exact zero beat is obtained between the output of the low-frequency oscillator and the output of the calibration oscillator.
 - j. Check the dial setting and lock the dial.
- k. Loosen the two setscrews that hold the knob to the shaft of control "G" and, without detuning the circuit, rotate the knob on the shaft until the dial setting corresponds to the setting given in the calibration table. Then tighten the setscrews.
- I. Rotate control "G" to the home stop position near zero. Loosen the two setscrews on the counter dial mechanism collar attached to the main oscillator shaft and, holding the mechanism at zero, rotate control "G" to zero. Tighten the setscrews.
 - m. Turn control "F" to position "5."
- n. As explained in steps e. and f., select a dial setting from table 5-3 near the middle of the tuning range.
- Note the numbered slots on the oscillator shield cover exposing trimming capacitor C-411.
- p. While listening to the sidetone output, adjust capacitor section E(5) of C411 with any narrow tool until zero bear is obtained between the low-fre-

quency oscillator output and the output of the calibration oscillator.

- q. Turn control "F" to position "4" and repeat steps n, and p,, adjusting section D(4) of C411 instead of section E.
- r. Repeat steps n. and p., adjusting capacitor trimmer sections C(3), B(2), and A(1) for control "F" positions "3," "2," and "1" respectively.
- s. Check the excitation over the entire range of each position of control "F" by rotating control "G" through 20 revolutions for each position of control "F" while watching the "P.A. GRID" meter reading.

7. TABLES OF APPROXIMATE CONTROL SETTINGS (FOR ANTENNA TUNING AND LOADING).

- a. These tables (refer to table 5-7) show approximate dial settings for the various frequencies and for various lengths of antennas. The tables are repeated to show settings for the case using the antenna shunt capacitor. The spaces marked with three dots in column D are left blank because of the setting of that control cannot be determined beforehand. All settings are approximate and the procedure outlined for section II, paragraph 7 must be followed to obtain the exact settings.
- b. To determine which table to use, measure the length of the antenna, taking the total length of wire from the antenna terminal of the transmitter to the extreme end of the antenna. If the antenna is a "T" disregard the length of wire in the shorter branch, or, if the two branches are equal, include the length of only one of them. To check the choice of table, tune up the set on one of the frequencies given in the table for the antenna length nearest that measured above. Choose a frequency which tunes on position 7 on control C. Compare the actual settings given in this table and also in the tables for the next shorter and the next longer antenna lengths. Of these three tables the one showing control settings closest to the actual control settings is the table to use for this particular installation. Record the type of airplane and a brief description of the antenna in the three lines above that table to identify it so that that table may be readily recognized as the correct one for future use on any frequency.
- c. The antenna cannot be tuned at any frequencies below those shown in the tables for the various lengths of antenna.

SECTION V

AN 16-30ART13-3

TABLE 5-1

CALIBRATION OF OSCILLATOR 0-17/ART-13A WHEN MCW-CFI 8Q-2 UNIT IS USED

200 Kc to 600 Kc

Revised 23 November 1948

TABLE 5-1. CALIBRATION OF OSCILLATOR 0-17/ART-13A WHEN MCW-CFI 8Q-2 UNIT IS USED

Frequency:	200-300	Κc

_					_	_					
Freq.	A	F	G	Frey.	A	F	G	Freq.	Α	F	G
200	13	1	189.2	234	13	ŧ	890.2	269	13	1	1604.0
201	13	1	212.0	235	13	1	910.6				
202	13	1	234.8	236	13	1	931.0	270	13	1	1624.5
203	13	1	256.8	237	13	1	951.3	271	13	1	1645.6
204	13	1	278.0	238	13	1	971.7	272	13	1	1666.0
205	13	1	299.8	239	13	t	992.0	273	13	1	1686.5
206	13	1	321 3					274	13	1	1707.2
207	13	1	342.8	240	13	t	10124	275	13	1	1728.8
208	13	1	363.6	241	13	1	1032.8	276	13	1	1750.0
209	13	1	384.3	242	13	1	1053.3	277	13	1	1771.0
				243	13	1	1073.7	278	13	1	1792.0
210	13	1	405.0	244	13	1	1094.2	279	13	1	1814.0
211	13	1	425.3	245	13	1	1114.6				
212	13	1	445.6	246	13	1	1135.0	280	13	1	1836.0
213	13	1	466.5	247	13	1	1155.5	281	13	1	1858.0
214	13	1		248	13	ŧ	1175.9	282	13	1	1880.0
	13		486.7	249	13	1	1196.4	283	13	1	1902.2
215		1	508.1	ì				284	13	1	1925.2
216	13	1	527.5	250	13	1	1216.8	285	13	1	1948.5
217	13	1	548.0	251	13	1	1237.1				
218	13	1	568.0	252	13	1	1257.4	285	13	2	118.8
219	13	1	588.C	253	13	1	1277.8	286	13	2	135.7
				254	13	1	1298.1	287	13	2	152.2
220	13	1	608.0	255	13	1	1318.4	288	13	2	168.2
221	13	1	628.1	256	13	1	1338.7	289	13	2	184.2
222	13	1	648.2	257	13	1	1359.0	١			
223	13	1	668.2	258	13	1	1379.4	290	13	2	200.2
224	13	1	688.3	259	13	1	1399.7	291	13	2	215.5
225	13	1	796.4	١				292	13	2	231.C
226	13	1	728.5	260	13		1420.0	293	13	2	246.8
227	13	1	748.6	261	13		1440.0	294	13	2	261.8
228	13	1	768.6	262	13	1	1460.9	295	13	2	276.5
229	13	1	788.7	263	13	1	1481.4	296	13	2	291.4
				264	13		1501.8	297	13	2	306.5
230	13	1	808.8	265	13		1522.2	289	13	2	321.5
231	13		829.2	266	13		1542.7	299	13	2	336.2
232		,	849.5	267	13		1563.1	1			
233	13	1	869.9	268	13	. 1	1583.6	300	13	2	350.8

Use nearest check point shown in heavy type

Frequency: 300-400 Kc

Freq.	A	F	G	Freq.	A	F	G	Freq.	A	F	G
300	13	2	350.8	334	13	2	829.0	368	13	2	1309.2
301	13	2	365.7	335	13	2	843.0	369	13	2	1323.3
302	13	2	379.4	336	13	2	857.0	Ì			
303	13	2	394.5	337	13	2	871.0	370	13	2	1337.5
304	13	2	408.7	338	13	2	885.0	371	13	2	1351.5
305	13	2	423.5	339	13	2	899.0	372	13	2	1365.6
306	13	2	438.7					373	13	2	1379.6
307	13	2	452.0	340	13	2	913.0	374	13	2	1393.6
308	13	2	466.0	341	13	2	927.2	375	13	2	1407.6
309	13	2	480.0	342	13	2	941.4	376	13	2	1421.7
		_		343	13	2	955.6	377	13	2	1435.7
310	13	2	494.0	344	13	2	969.8	378	13	2	1449.7
311	13	5	509.2	345	13	2	984.0	379	13	2	1463.7
312	13	2	522.4	346	13	2	998.2			_	
313	13	2	536.6	347	13	2	1012.4	380	13	2	1477.8
314	13	2	550.6	348	13	2	1026.6	381	13	2	1492.0
315	13	2	564.4	349	13	2	1040.8	382	13	2	1506.2
316	13	2	578.4			_		383	13	2	1520.3
317	13	5	592.2	350	13	2	1055.0	384	13	2	1534.5
318	13	2	606.2	351	13	2	1069.1	385	13	2	1548.7
319	13	2	620.2	352	13	2	1083.2	386	13	2	1562.9
				353	13	2	1097.3	387	13	2	1577.1
320	13	2	634.2	354	13	2	1111.4	388	13	2	1591.2
321	13	2	648.1	355	13	2	1125.5	389	13	2	1605.4
322	13	2	662.0	356	13		1139.6				
323	13	2	675.8	357	13	2	1153.7	390	13	2	1619.6
324	13	2	58 9.7	358	13	2	1167.8	391	13	2	1634.1
325	13	2	703.6	359	13	2	1181.9	392	13	2	1648.6
326	13	2	717.5	360	13	2	1196.0	393	13	2	1663.2
327	13	2	731.4	361	13		1210.1	394	13	2	1677.7
328	13	2	745.2	362	13		1224.3	395	13	2	1692.2
329	13	2	759.1	_				396	13	2	1706.7
		_		363	13		1238.4	397	13	2	1721.2
330	13	2	773.0	364	13		1252.6	398	13	2	1735.7
331	13	2	786.4	365	13		1266.7	399	13	2	1750.3
332	13		801.0	366	13		1280.9	l		_	
333	13	2	815.0	367	13	2	1295.0	400	13	2	1764.8
				1				1			

Use nearest check point shown in heavy type

Frequency: 400-500 Kc

Freq.	A	F	G	Freq.	A	F	G	Freq.	A	F	G
400	13	2	1.764.8	433	13	3	320.4	468	13	3	662.6
401	13	2	1779.0	434	13	3	330.4	469	13	3	672.2
402	13	2	1793.7	435	13	3	340.6	l			
403	13	2	1809.0	436	13	3	350.8	470	13	3	681.8
404	13	2	1824.0	437	13	3	360.8	471	13	3	691.4
405	13	2	1839.4	438	13	3	370.6	472	13	3	701.0
406	13	2	1854.4	439	13	3	380.4	473	13	3	710.5
407	13	2	1869,4					474	13	3	720.1
408	13	2	1885.0	440	13	3	390.4	475	13	3	729.7
409	13	2	1900.2	441	13	3	400.3	476	13	3	739.3
				442	13	3	41C.1	477	13	3	748.9
410	13	2	1916.2	443	13	3	420.0	478	13	3	758.4
411	13	2	1932.2	444	13	3	429.8	479	13	3	768.0
412	13	2	1948.2	445	13	3	439.7				
413	13	2	1964.4	445	13	3	449.6	480	13	3	777.6
414	13	2	1980.3	447	13	3	459.4	481	13	3	787.3
415	13	2	1997.0	448	13	3	469.3	482	13	3	796.9
				443	13	3	479.1	483	13	3	806.6
415	13	3	127.2	l				484	13	3	816.2
416	13	3	138.6	450	13	3	489.0	485	13	3	825.9
417	13	3	150.2	451	13	3	498.7	486	13	3	835.6
418	13	3	161.3	452	13	3	508.4	487	13	3	B45.2
419	13	3	172.2	453	13	3	518.0	488	13	3	854.9
				454	13	3	527.7	489	13	3	864.5
420	13	3	183.0	455	13	3	537.4	703	13	•	607.5
421	13	3	193.8	456	13	3	547.1	1		_	
422	13	3	205.0	457	13	3	556.8	490	13		874.2
423	13	3	215.6	458	13	3	566.4	491	13		884.0
424	13	3	226.6	459	13	3	576.1	492 493	13		893.7 903.5
425	13	3	237.2	460	13	3	585.8	494	13		913.2
426	13	3	247.7	461	13	3	595.4	495	13		923.3
427	13	3	258.2	462	13	3	605.0	496	13		932.8
428	13	3	268.4	_				497	13	***	942.5
429	13	3	277.7	463	13	3	614.6	498	13		952.3
		_		464	13	3	624.2	490	13		962.0
430	13	3	289.2	465	13	3	633.8	799	13	,	502.0
431 432	13	3	299.6	466 467	13	3	643.4	500	13	3	971.8
732	13		310.2	70/	13		653.0	300	7.3	<u>,</u>	3/1.8

Use nearest check point shown in heavy type

Frequency: 500-600 Kc

Freq.	A	F	G	Freq.	A	F	G	Freq.	A	F	G
500	13	3	971.8	534	13	3	1303.2	568	13	3	1634.3
501	13	3	981.6	535	13	3	1312.9	569	13	3	1644.0
502	13	3	991.3	536	13	3	1322.6				
503	13	3	1001.1	537	13	3	1332.3	570	13	3	1653.8
504	13	3	1010.9	538	13	3	1342.0	571	13	3	1663.8
505	13	3	1020.6	539	13	3	1351.7	572	13	3	1673.2
506	13	3	1030.4	1				573	13	3	1682.0
507	13	3	1040.2	540	13	3	1361.4	574	13	3	1692.8
508	13	3	1050.0	541	13	3	1371.1	575	13	3	1703.0
509	13	3	1059.7	542	13	3	1380.8	576	13	3	1713.0
		_		543	13	3	1390.4	577	13	3	1723.0
510	13	3	1069.5	544	13	3	1400.1	578	13	3	1733.A
511	13	3	1079.2	545	13	3	1409.8	579	13	3	1743.4
512		-	1089.0	546	13	3	1419.5	1		3	1752.4
513	13	3	1098.8	547	13	3	1429.2	580	13 13	_	1753.4
514	13	3	1108.5	548	13	3	1438.8	581	13	3	1763.4
515	13	3	1118.2	549	13	3	1448.5	583	13	3	1773.2 1783.2
516	13	3	1128.0			_		584	13	3	1793.8
517	13	3	1137.7	550	13	3	1458.2	585	13	3	1804.0
518	13	3	1147.5	551	13	3	1467.9	586	13	3	1814.4
519	13	3	1157.3	552 553	13	3	1477.7	587	13	3	1824.8
520	13	3	1167.0	554	13	3	1487.4		_	3	
521	13	3	1176.8	555	13	3	1497.1 1506.9	588 589	13	3	1835.2
522	13	3	11/6.8	556	13	3	1516.6	589	13	3	1845 9
523	13	3	1196.2	557	13	3	1526.3	590	13	3	1856.2
523 524	13	3	1206.0	558	13	3	1536.1	591	13	3	1866.4
525	13	3	1215.7	559	13	3	1545.9	592	13	3	1877.0
526	13	3	1225.5	333	,,	3	1545.5	593	13	3	1887.5
527	13	3	1235.2	560	13	3	1555.6	594	13	3	1898.0
528	13	3	1245 0	561	13	3	1565.4	595	13		
529	13	3	1254.7	562	13	3	1575.2	596	13		
		•		563	13	3	1585.1		13		
530	13	3	1264.5	564	13				13		
531	13	_		565					13		
532	13			566				1		-	
533				567	13				13	3	1964.0
		-		1		-		1		-	
	_										

Use nearest check point shown in heavy type

TABLE 5-2

CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED.

2,000 Kc to 18,100 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED

Frequency:	2000	2100	W.
rrequency:	2UU-	-2100	R.C

	Frequency: 2000—2100 Kc													
Freq.	A	B	Freq.	A	В	Freq.	A	В						
2000	1	100.1	2034	1	225.4	2068	1	350.8						
2001	1	103.8	2035	1	229.1	2063	1	354.5						
2002	1	107.5	2036	1	232.7									
2003	1	111.2	2037	1	236.4	2070	1	358.1						
2004	1	114.9	2038	t	240.1	2071	7	361.8						
2005	1	118.6	2039		243.8	2072	1	365.5						
2006	1	122.3				2073	1	369.2						
2007	1	126.0	2040	1	247.4	2074	1	372.9						
2008	1	129.7	2041	1	251.1	2075	1	376.6						
2009	1	133.4	2042	1	254.8	2076	1	380.3						
			2043	1	258.5	2077	1	384.0						
2010	1	137.1	2044	1	262.2	2078	1	387.7						
2011	1	140.8	2045	1	265.9	2079	1	391.4						
2012	1	144.5	2045	1	269.6	l								
2013	1	148.2	2047	1	273.2	2080	1	395.1						
2014	1	151.9	2048	1	276.9	2081	1	398.8						
2015	1	155.6	2049	1	280.6	2082	1	402.5						
2016	1	159.2				2083	1	406.2						
2017	1	162.9	2050	1	284.3	2064	1	410.0						
2018	1	166.6	2051	1	288.0	2085	1	413.7						
2019	1	170.3	2052	1	291.7	2066	1	417.4						
			2053	1	295.4	2087	1	421.2						
2020	1	174.0	2054	1	299.1	2088	1	424.9						
2021	1	177.7	2055	1	302.8	2089	1	428.6						
2022	1	181.3	2056	1	306.5	1								
2023	1	185.0	2057	1	310.2	2090	1	432.3						
2024	1	188.7	2058	1	313.9	2091	1	436.1						
2025	1	192.3	2059	1	317.5	2092	1	439.8						
2026	1	196.0	ł			2093	1	443.5						
2027	1	199.7	2060	1	321.2	2094	1	447.2						
2028	1	203.4	2061	1	324.9	2095	1	451.0						
2029	t	207.0	2062	1	328.6	2096	1	454.7						
			2063	1	332.3	2097	1	458.4						
2030	1	210.7	2064	1	336.0	2098	1	462.1						
2031	1	214.4	2065	1	339.7	2099	1	465.9						
2C32	1	218.0	2066	1	343.4	i								
2033	1	221.7	2067	1	347.1	21.00	1	469.6						

Use check point at 2000 or 2100 Kc, whichever is nearer

Frequency: 2100-2200 Kc

Freq.	A	В	Freq.	A	В	Freq.	A	В
21.00	1	469.6	2134	1	596.4	2168	1	723.5
2101	1	473.3	2135	1	600.1	2169	1	727.2
2102	1	477.0	2136	1	603.9			
2103	1	480.7	2137	1	607.6	2170	1	731.0
2104	1	484.4	2138	1	611.4	2171	1	734.7
2105	1	488.2	2139	1	615.1	2172	1	738.5
2106	1	491.9	i			2173	1	742.2
2107	1	495.6	2140	1	618.8	2174	1	746.0
2108	1	499.3	2141	1	622.6	2175	1	749.7
2109	1	503.0	2142	1	626.3	2176	1	753.5
			2143	1	630.1	2177	1	757.2
2110	1	506.7	2144	1	633.8	2178	1	761.0
2111	1	510.5	2145	1	637.5	2179	1	764.7
2112	1	514.2	2146	1	641.3	ı		
2113	1	517.9	2147	1	645.0	2180	1	768.5
2114	1	521.7	2148	1	648.8	2181	1	772.2
2115	1	525.4	2149	1	652.5	2182	1	775.9
2116	1	529.2	$\overline{}$			2183	1	779.6
2117	1	532.9	2150	7	656.2	2184	1	783.3
2118	1	536.6	2151	1	660.0	2185	1	787.1
2119	1	540.4	2152	1	663.7	2186	1	790.8
_			2153	1	667.4	2187	1	794.5
2120	1	544.1	2154	1	671.2	2188	1	798.2
2121	1	547.9	2155	1	674.9	2189	1	802.0
2122	1	551.6	2156	1	678.6	1		
2123	1	655.3	2157	1	682.4	2190	1	805.7
2124	1	559.0	2158	1	686.1	2191	1	809.4
2125	1	562.8	2159	1	689.8	2192	1	813.1
2126	1	566.5	1			2193	1	815.9
2127	1	570.2	2160	1	693.6	2194	1	820.6
2128	1	574.0	2161	1	697.3	2195	1	824.3
2129	1	577.7	2162	1	701.1	2196	1	828.1
			2163	1	704.8	2197	1	831.8
2130	1	581.4	2164	1	708.5	2198	1	835.5
2131		585.2		- 1	712.3	2199	1	839.3
2132		588.9	2166	- 1	716.0			
2133		592.6		1	719.8	2200	1	843.0
		300.0						

Use check point at 2100 or 2200 Kc, whichever is nearer

Frequency: 2200-2300 Kc

Freq.	A	В	Freq.	A	В,	Freq.	Α	В
2200	1	843.0	2234	1	969.1	2268	1	1094.6
2201	1	846.7	2235	1	972.8	2269	1	1098.2
2202	1	850.4	2236	1	976.5	l		
2203	1	854.1	2237	1	980.2	2270	1	1101.9
2204	1	857.8	2238	1	983.9	2271	1	1105.6
2205	1	861.6	2239	1	987.6	2272	1	1109.3
2206	1	865.3				2273	1	1112.9
2207	t	869.0	2240	1	991.2	2274	1	1116.6
2208	1	872.7	2241	1	994.9	2275	1	1120.3
2209	1	876.4	2242	1	998.6	2276	1	1123.9
			2243	1	1002.3	2277	1	1127.6
2210	1	880.1	2244	1	1006.0	2278	1	1131.3
2211	1	883.8	2245	1	1009.8	2279	1	1134.9
2212	1	887.5	2246	1	1013.5			
2213	1	891.3	2247	1	1017.2	2280	1	1138.6
2214	1	895.0	2248	1	1020.9	2281	1	1142.3
2215	1	898.7	2249	1	1024.6	2282	1	1145.9
2216	1	902.4				2283	1	1149.6
2217	1	906.1	2250	1	1028.3	2284	1	1153.3
2218	1	909.8	2251	1	1032.0	2285	1	1156.9
2219	1	913.5	2252	1	1035.7	2296	1	1160.6
			2253	1	1039.4	2287	1	1164.2
2220	1	917.2	2254	1	1043.1	2288	1	1167.9
2221	1	921.0	2255	1	1046.8	2289	1	1171.6
2222	1	924.7	2256	1	1050.5		_	
2223	1	928.4	2257	1	1054.2	2290	1	1175.2
2224	1	932.1	2258	1	1057.9	2291	1	1176.9
2225	1	935.8	2259	1	1061.6	2292	1	1182.5
2226	1	939.5	l			2293	1	1186.2
2227	1	943.2	2260	1	1065.3	2294	1	1189.9
2228	1	946.9	2261	1	1068.9	2295	1	1193.5
2229	1	950.6	2262	1	1072.6	2296	1	1197.2
			2263	1	1076.3	2297	1	1200.8
2230	1	954.3	2264	1	1079.9	2298	1	1204.5
2231	1	958.0	2265	1	1083.6	2299	1	1208.1
2232	1	961.7	2266	1	1087.3			
2233	1	965.4	2267	1	1090.9	2300	1	1211.8
			<u> </u>	_				

Use check point at 2200 or 2300 Kc, whichever is nearer

Frequency: 2300-2400 Kc

Freq.	A	B	Freq.	A	В	Freq.	A	В
2300	1	1211.8	2334	1	1336.2	2368	1	1460.6
2301	1	1215.4	2335	1	1339.8	2369	1	1464.2
2302	1	1219.1	2336	1	1343.5			
2303	1	1222.7	2337	1	1347.1	2370	1	1467.9
2304	1	1226.4	2338	1	1350.8	2371	1	1471.6
2305	1	1230.0	2339	1	1354.5	2372	1	1475.3
2306	1	1233.7				2373	1	1479.0
2307	1	1237.3	2340	1	1358.1	2374	1	1482.7
2308	1	1241.0	2341	1	1361.8	2375	1	1486.4
2309	1	1244.6	2342	1	1355.4	2376	1	1490.0
			2343	1	1369.1	2377	1	1493.7
2310	1	1248.3	2344	1	1372.7	2378	1	1497.4
2311	1	1252.0	2345	1	1376.4	2379	1	1501.1
2312	1	1255.6	2346	1	1380.0	ł		
2313	1	1259.3	2347	1	1383.7	2380	1	1504.8
2314	1	1262.9	2348	1	1387.3	2381	1	1508.5
2315	1	1266.6	2349	1	1391.0	2382	1	1512.2
2316	1	1270.2				2383	1	1515.9
2317	1	1273.9	2350	- 1	1394.6	2384	1	1519.6
2318	1	1277.5	2351	- 1	1398.3	2385	1	1523.3
2319	1	1281.2	2352	1	1402.0	2386	1	1527.0
			2353	1	1405.7	2387	1	1530.7
2320	1	1284.8	2354	1	1409.3	2388	1	1534.3
2321	1	1288.5	2355	1	1413.0	2389	1	1538.0
2322	1	1292.2	2356	1	1416.7	1		
2323	1	1295.8	2357	1	1420.3	2390	1	1541.7
2324	1	1299.5	2358	1	1424.0	2391	1	1545.4
2325	1	1303.2	2359	1	1427.7	2392	1	1549.1
2326	1	1306.8	1			2393	1	1552.9
2327	1	1310.5	2360	1	1431.4	2394	- 1	1556.6
2328	1	1314.2	2361	1	1435.0	2395	- 1	1560.3
2329	1	1317.9	2362	1	1438.7	2396	1	1564.0
			2363	t	1442.3	2397	1	1567.7
2330	1	1321.5	2364	1	1446.0	2398	1	1571.4
2331	í	1325.2	2365	1	1449.6	2399		1575.1
2332	1	1328.8	2366	1	1453.3	1		
2333	1	1332.5	2367	1	1456.9	2400	1	1578.9

Use check point at 2300 or 2400 Kc, whichever is nearer

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

	00 Kc	0-276	260	ency:	Frequ					00 Kc	00-25	240	ency:	Frequ		
Ā	Freq.	В	A	Freq.	B	A	Freq.	В	A	Freq.	B	A	Freq.	В	A	req.
2	2668	778.3	2	2634	673.4	2	2600	267.4	2	2468	164.0	2	2434	60.0	2	400
2	2669	781.4	2	2635	676.5	2	2601	270.4	2	2469	167.0	2	2435	63.1	2	401
		784.5	2	2636	679.6	2	2602			ı	170.0	2	2436	66.1	2	402
2	2670	787.6	2	2637	682.7	2	2603	273.5	2	2470	173.1	2	2437	69.2	2	403
2	2671	790.7	2	2638	685.7	2	2604	276.5	2	2471	176.1	2	2438	72.3	2	404
2	2672	793.8	2	2639	688.8	2	2605	279.6	2	2472	179.1	2	2439	75.3	2	405
2	2673				691.9	2	2606	282.6	2	2473				78.4	2	406
2	2674	796.9	2	2640	695.0	2	2607	285.7	2	2474	182.2	2	2440	81.5	2	407
2	2675	800.0	2	2641	698.1	2	2608	288.7	2	2475	185.2	2	2441	84.5	2	408
2	2676	803.1	2	2642	701.2	2	2609	291.7	2	2476	188.3	2	2442	87.6	2	409
2	2677	806.2	2	2643				294.8	2	2477	191.3	5	2443			
2	2678	809.3	2	2644	704.2	2	2610	297.8	2	2478	194.3	2	2444	90.7	2	410
2	2679	812.4	2	2645	707.3	2	2611	300.9	2	2479	197.4	2	2445	93.7	5	411
		815.5	2	2646	710.4	2	2612			i	200.4	2	2446	96.8	2	412
2	2680	818.6	2	2647	713.5	2	2613	303.9	2	2480	203.5	2	2447	99.9	2	413
2	2681	821.7	2	2648	716.6	2	2614	307.0	2	2481	206.5	2	2448	102.9	2	414
2	2682	824.9	2	2649	719.8	2	2615	310.0	2	2482	209.6	2	2449	106.0	2	415
2	2683				722.9	2	2616	313.1	2	2483				109.1	2	416
2	2684	828.0	2	2650	726.0	2	2617	316.1	2	2484	212.6	2	2450	112.1	2	417
2	2685	831.0	2	2651	729.1	2	2618	319.2	2	2485	215.6	2	2451	115.2	2	418
Z	2686	834.1	2	2652	732.2	2	2619	322.2	2	2486	218.7	2	2452	118.3	2	419
2	2687	837.2	2	2653				325.3	2	2487	221.7	2	2453			
2	2688	840.3	2	2654	735.3	2	2620	328.4	2	2488	224.7	2	2454	121.3	2	420
2	2689	843.4	2	2655	738.3	2	2621	331.4	2	2489	227.8	2	2455	124.4	2	421
	ł	846.4	2	2656	741.4	2	2622				230.8	2	2456	127.4	2	422
2	2690	849.5	2	2657	744.5	2	2623	334.5	2	2490	233.9	2	2457	130.5	2	423
2	2691	852.6	2	2658	747.5	2	2624	337.5	2	2491	236.9	2	2458	133.5	2	424
2	2692	855.7	2	2659	750.6	2	2625	340.6	2	2492	239.9	2	2459	136.6	2	425
2	2693			l	753.7	2	2626	343.7	2	2493	- 1			139.6	2	426
2	2694	858.8	2	2660	756.8	2	2627	346.8	2	2494	243.0	2	2460	142.7	2	427
2	2695	861.8	2	2661	759.8	2	2628	349.8	2	2495	246.0	2	2461	145.7	2	428
2	2696	864.8	2	2662	762.9	2	2629	352.9	2	2496	249.1	2	2462	148.8	2	129
2	2697	867.9	2	2663				356.0	2	2497	252.1	2	2463	ı		
2	2698	870.9	2	2664	766.0	2	2630	359.0	2	2498	255.2	2	2464	151.8	2	130
2	2699	874.0	2	2665	769.1	2	2631	362.1	2	2499	258.2	2	2465	154.9	2	131
		877.0	2	2666	772.1	2	2632				261.3	2	2466	157.9	2	132
2	2700	880.0	2	2667	775.2	2	2633	365.2	2	2500	264.3	2	2467	160.9	2	433

Use check point at 2400 or 2500 Kc, whichever is nearer

Use check point at 2600 or 2700 Kc, whichever is nearer

Frequency:	2500-2600	Kc
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Freq.	A	В	Freq.	A	В	Freq.	Α	В
2500	2	365.2	2534	2	469.5	2568	2	574.4
2501	2	368.2	2535	2	472.5	2569	2	577.5
2502	2	371.3	2536	2	475.6	l		
2503	2	374.3	2537	2	478.6	2570	2	580.6
2504	2	377.3	2538	2	481.7	2571	2	583.7
2505	2	380.4	2539	2	484.8	2572	2	586.8
2506	2	383.4				2573	2	589.9
2507	2	386.5	2540	2	487.8	2574	2	593.0
2508	5	389.5	2541	5	490.9	2575	5	596.1
2509	2	392.6	2542	2	494.0	2576	2	599.2
			2543	2	497.2	2577	2	602.3
2510	2	395.6	2544	2	500.3	2578	2	605.4
2511	2	398.7	2545	2	503.4	2579	2	608.5
2512	2	401.8	2546	2	506.5			
2513	2	404.8	2547	2	509.6	2580	2	611.6
2514	2	407.9	2548	2	512.7	2581	2	614.7
2515	2	411.0	2549	2	515.8	2582	2	6178
2516	2	414.1				2583	2	620.9
2517	2	417.2	2550	2	518.9	2584	2	623.9
2518	2	420.2	2551	2	522.0	2585	2	627.0
2519	2	423.3	2552	2	525.1	2586	2	630 1
			2553	2	528.2	2587	2	633.2
2520	2	426.4	2554	2	531.2	2588	2	636.3
2521	2	429.5	2555	2	534.3	2589	2	639.4
2522	2	432.6	2556	2	537.4			
2523	2	435.6	2557	2	540.5	2590	2	642.5
2524	2	438.7	2558	2	543.6	2591	2	645.6
2525	2	441.8	2559	2	546.6	2592	2	648.7
2526	2	444.9				2593	2	651.8
2527	2	448.0	2560	2	549.7	2594	2	654.9
2528	2	451.1	2561	2	552.8	2595	2	658.0
2529	2	454.2	2562	2	555.9	2596	2	661.1
			2563	2	559.0	2597	2	664.1
2530	2	457.2	2564	5	562.1	2598	2	667.2
2531	2	460.3	2565	2	565.2	2599	2	670.3
2532	2	463.4	2566	2	568.2			
25.13	?	466.4	2567	2	571.3	2600	2	673.4

Use check paint at 2500 or 2600 Kc, whichever is nearer

Frequency: 2700—2800 Kc

Freq.	A	8	Freq.	٨	В	Freq.	A	В
2780	2	381.4	2734	2	1085.2	2768	2	1188.4
2701	2	984.4	2735	2	1088.2	2769	2	1191.4
2702	2	987.5	2736	2	1091.3			
2703	2	990.5	2737	2	1094.3	2770	2	1194.4
2704	2	993.6	2738	2	1097.3	2771	2	1197.5
2705	2	996.7	2739	2	1100.4	2772	2	1200.5
2706	2	999.7	l			2773	2	1203.6
2707	2	1002.8	2740	2	1103.4	2774	2	1206.6
2708	2	1005.8	2741	2	1106.5	2775	2	1209.7
2709	2	1008.9	2742	2	1109.5	2776	2	1212.7
			2743	2	1112.6	2777	2	1215.8
2710	2	1012.0	2744	2	1115.6	2778	2	1218.8
2711	2	1015.0	2745	2	1118.6	2779	2	1221.9
2712	2	1018.1	2746	2	1121.7	ł		
2713	2	1021.1	2747	2	1124.7	2780	2	1224.9
2714	2	1024.2	2748	2	1127.8	2781	2	1227.9
2715	2	1027.2	2749	2	1130.8	2782	2	1230.9
2716	2	1030.3				2783	2	1234.0
2717	2	1033.3	2750	2	1133.8	2784	2	1237.0
2718	2	1036.4	2751	2	1136.9	2785	2	1240.0
2719	2	1039.4	2752	2	1139.9	2786	2	1243.0
			2753	2	1143.0	2787	2	1246.0
2720	2	1042.5	2754	2	1146.0	2788	2	1249.1
2721	2	1045.5	2755	2	1149.0	2789	2	1252.1
2722	2	1048.6	2756	2	1152.1	1		
2723	2	1051.6	2757	2	1155.1	2790	2	1255.1
2724	2	1054.7	2758	2	1158.1	2791	2	1258.1
2725	2	1057.7	2759	2	1161.2	2792	2	1261.1
2726	2	1060.8				2793	2	1264.2
2727	2	1063.8	2760	2	1164.2	2794	2	1267.2
2728	2	1066.9	2761	2	1167.2	2795	2	1270.2
2729	2	1069.9	2762	2	1170.3		2	1273.2
			2763	2	1173.3		2	1276.2
2730	2	1073.0	2764	2	1176.3		2	1279.3
2731	2	1076.0	2765	2	1179 3		2	1282.3
2732	2	1079.1	2766	2	1182.4			
2733	2	1082.1	2767	2	1185 4	2800	2	1,285.3
			<u> </u>			l		

Use check point at 2700 or 2800 Kc, whichever is nearer

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

Freq.

3001

3006 3007

3024 3025

3026 3027

3028

3029

3030

3031

3032

3033

		Frequ	ency:	28	00-290	Ю Kc		
Freq.	A	В	Freq.	Ā	В	Freq.	A	
2800	2	1285.3	2834	2	1388 4	2868	2	1491.9
2801	2	1288.3	2835	2	1391.4	2869	2	1495.0
2802	2	1291.4	2836	2	1394.5			
2803	2	1294.4	2837	2	1397.5	2870	2	1498.0
2804	2	1297.4	2838	2	1400.5	2871	2	1501.1
2805	2	1300.5	2839	2	1403.6	2872	2	1504.2
2806	2	1303.5				2873	2	1507.2
2807	2	1306.6	2840	2	1406.6	2874	2	1510.3
2808	2	1309.6	2841	2	1409.6	2875	2	1513.4
2809	2	1312.6	2842	2	1412.7	2876	2	1516.4
			2843	2	1415.7	2877	2	1519.5
2810	2	1315.7	2844	2	1418.8	2878	2	1522.5
2811	2	1318.7	2845	2	1421.8	2879	2	1525.6
2812	2	1321.7	2846	2	1424.9	1		
2813	2	1324.8	2847	2	1427.9	2880	2	1528.7
2814	2	1327.8	2848	2	1431.0	2881	2	1531.7
2815	2	1330.8	2849	2	1434.0	2882	2	1534.8
2816	2	1333.8		_		2883	2	1537.9
2817	2	1336.9	2850	2	1437.1	2884	2	1540.9
2818	2	1339.9	2851	2	1440.1	2885	2	1544.0
2819	2	1342.9	2852	2	1443.2	2886	2	1547.0
20.3	-	1312.5	2853	2	1446.2	2887	2	1550.1
2820	2	1346.0	2854	2	1449.3	2888	2	1553.2
2821	2	1349.0	2855	2	1452.4	2889	2	1556.2
2822	2	1352.0	2856	2	1455.4	1	-	
2823	2	1355.1	2857	2	1458.5	2890	2	1559.3
2824	2	1358.1	2858	2	1461.5	2891	2	1562.4
2825	2	1361.1	2859	2	1464.6	2892	2	1565.4
2826	2	1364.2	1 - 000	-		2893	2	1568.5
2827	2	1367.2	2860	2	1467.6	2894	2	1571.6
2828	2	1370.2	2861	2	1470.7	2895	2	1574.7
2829	2	1373.2	2862	2	1473.7	2896	2	1577.8
-565	-		2863	2	1476.8	2897	2	1580.8
2830	2	1376.3	2864	2	1479.8	2898	2	1583.9
2831	2	1379.3	2865	2	1482.8	2899	2	1587.0
2832	2	1382.3	2866	2	1485.9	1 2003	-	1997.0
2833	2	1385.4	2867	2	1488.9	2900	2	1550.1
2003	~	1300.7	1 2007	-	1700.5	-300	•	

В

1808.0

30008 1199 3041 200.9 3075 122.3 3042 203.4 3076 286.8 3043 3044 205.8 208.3 3077 3010 3078 291.7 127.3 129.7 132.2 3045 3046 210.7 213.2 3011 3079 296.6 3047 3080 3013 215.6 134.7 137.1 139.6 3081 3082 3014 3 218.1 299.1 3015 3016 3049 220.5 301.5 3083 3017 142.1 144.5 3050 223.0 3084 306.5 308.9 3085 3018 3051 225.4 3052 3053 227.9 230.3 311.4 313.9 3019 147.0 3086 3087 3020 149.4 3054 232.8 SUNS 316.3 3055 235.2 3089 3021 318.8 151.9 3022 3023 154.3 156.8 3056 3057 237.7

Frequency: 3000-3100 Kc

req.

3069

3073

3074

267.1

269.6

272.0

274.5

279.4

281.8

183.8 3068

186.2

188 7

191.1

193.6 3071

196.0

rea.

3034

3035

3036

3037

3039

100.1

102.6

105.1

107.5

110.0 3038

112.5

114.9

117.4

3090 321.2 240.1 159.3 3058 242.6 3091 3092 323.7 326.2 245.0 161.7 3059 164.2 166.6 3093 328.6 247.5 3094 3060 331.1 249.9 252.4 169.1 3061 3095 333.5 3062 3096 336.0 171.5 3063 3064 254.8 3097 338.5 340.9 174.0 257.3 3098 176.4 178.9 3065 259.7 3099 343.4 3066 262.2

264.6

3100 3

345.8

Use check point at 3000 or 3150 Kc, whichever is nearer

3067

Frequency: 2900-3000 Kc

В

1699.3

Frea.

2969

Freq. 2900

R Freq.

1590.1

1593.2

1680.4

1689.9

2 1683.6 1686.7

2931 2932

2933 2 1693.0 2963

2964 2965

2966

2967

2934

2935

Use check point a 2800 or 2900 Kc, whichever is nearer

2901 2902 2936 1702.5 1596.3 2903 2904 1599.4 2937 1705.7 2970 1811.2 2938 1708.8 2971 1814.4 1602.5 2905 2906 2907 1605.6 2939 2 1712.0 2972 1817.7 2973 1820.9 1608.7 2974 2975 2976 1611.8 2940 1715.1 1824.2 1827.4 2941 2942 1718.3 1721.5 2908 2909 1614.9 1618.0 1830.7 2943 1724.6 2977 1833.9 2910 1621.1 2944 2945 1727.8 1731.0 2978 2979 1837.2 2911 1624.2 1734.1 1737.3 1627.3 1843.7 2947 2913 1630.4 2914 1633.5 2948 1740.5 2981 1847.0 1743.6 2982 1850.3 2915 1636.7 2949 1639.8 2983 1853.6 2984 2950 1746.8 1856.9 2917 1642.9 2918 2919 1646.0 2951 1750.0 1753.2 2985 1860.2 2986 1863.5 2952 1649.1 1756.4 2987 1866 8 1759.6 2988 1870.1 1652.3 2954 2920 1655.4 2955 1762.8 2989 1873.5 2956 1766.0 2922 1658.5 1876.8 1880.1 1661.7 1769.3 2990 2958 1772.5 2991 2924 1664.8 1667.9 2959 1775.7 2992 1883 4 1886.7 2993 2926 1671.0 2960 1778.9 2004 1890.1 2995 1893.4 2928 1677.3 2961 1782.1

Use check point at 2900 or 3000 Kc, whichever is nearer

1785.3

1788.6

1791 8 1795.0

1798.3

1801.5

2996

2997

2998 2999

3000

1896.7 1900.0

1903.4 1906.7

2 1910.0

Frequency: 3100-3200 Kc

3100 3 3101 3 3102 3	34 35	5.8 8.3	3134	3	429.8	3168	3	514.2
3102 3	35	8.3				J. 30	•	3'7.2
			3135	3	432.3	3169	3	516.7
		0.8	3136	3	434.8	i		
3103 3	35	3.2	3137	3	437.3	3170	3	519.2
3104 3	35	5.7	3138	3	439.8	3171	3	521.7
3105 3	35	8.1	3139	3	442.3	3172	3	524.2
3106 3	36	50.6	1			3173	3	526.7
3107 3	36	53.1	3140	3	444.7	3174	3	529.2
3108 3	36	55.5	3141	3	447.2	3175	3	531.7
3109 3	3 30	98.0	3142	3	449.7	3176	3	534.1
			3143	3	452.2	3177	3	536.6
3110 3		70.4	3144	3	454.7	3178	3	539.1
		72.9	3145	3	457.2	3179	3	541.6
		75.4	3146	3	459.6	l		
		77.8	3147	3	462.1	3180	3	544.1
		80.3	3148	3	464.6	3181	3	546.6
		82.8	3149	3	467.1	3182	3	549.1
		85.2	l			3183	3	551.6
		87.7	3150	3	469.6	3184	3	554.1
		90.1	3151	3	472.1	3185	3	556.6
3119	3 3	92.6	3152	3	474.5	3186	3	559.0
			3153	3	477.0	3187	3	561.5
		95.1	3154	3	479.5	3188	3	564.0
		97.5	3155	3	482.0	3189	3	566.5
3122		00.0	3156	3	484.4	I	_	
3123		02.5	3157	3	486.9	3190	3	569.0
		05.0	3158	3	489.4	3191	3	571.5
	_	07.5	3159	3	491.9	3192	3	574.0
		10.0	l	_		3193	3	576.4
		12.5	3160	3	494.3		3	578.9
		14.9	3161	3	496.8		3	581.4
3129	3 4	117.4	3162	3	499.3		3	583.9
	_		3163	3	501 8		3	586.4
3130		119.9	3164	3	504.2		3	588.9
3131		22.4			506.7		3	591 4
3132		124.9		3	509.2		-	
3133	3 4	127 4	3167	3	511.7	3200	3	593.9

Use check point at 3150 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A ART-13 OR T-47 ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

	00 Kt	00-350	340	ency:	Frequ						10 Kc	00-330	320	ency:	Frequ		
A	Freq.	В	A	Frey.	23	<u>, </u>		Freq.	В	A	Freq.	13	A	Freq.	В	Ā	eq.
3	3468	1172.8	3	3434	1089.7	1	3	3400	763.5	3	3268	678.6	3	3234	593.9	3	200
3	3469	11752	3	3435	092 1		3	3401	766.0	3	3269	681.1	3	3235	596.4	3	201
	ŀ	1177.7	3	3436	094.6	:	3	3402			4	683.6	3	3236	598.9	3	202
:	3470	1180.1	3	3437	097.0		3	3403	768.5	3	3270	686.1	3	3237	601.4	3	203
	3471	1182.5	3	3438	099.5	ŀ	3	3404	770.9	3	3271	688.6	3	3238	603.9	3	204
3	3472	1185.0	3	3439	101.9		3	3405	773.4	3	3272	691.1	3	3239	606.4	3	205
	3473			1	104 4		3	3406	775.9	3	3273			Ì	608.9	3	206
3	3474	1187.4	3	3440	106.8		3	3407	778.4	3	3274	693.6	3	3240	611.4	3	207
	3475	11898	3	3441	109.2	ŀ	3	3408	780.9	3	3275	696.1	3	3241	613.9	3	208
;	3476	1192.3	3	3442	111.7		3	3409	783 3	3	3276	698.6	3	3242	616.4	3	209
3	3477	1134 7	3	3443					785.8	3	3277	701.1	3	3243			
3	3478	1197.2	3	3444	114.1		3	3410	788.3	3	3278	703.5	3	3244	6188	3	210
3	3479	1199.6	3	3445	116.6		3	3411	790.8	3	3279	706.0	3	3245	621.3	3	211
	l	1202.0	3	3446	119.0		3	3412				708.5	3	3246	623.8	3	212
3	3480	1204.5	3	3447	121.5		3	3413	793.3	3	3280	711.0	3	3247	62G.3	3	213
3	3481	1206 9	3	3448	123.9		3	3414	795.7	3	3281	713.5	3	3248	628.8	3	214
3	3482	1209.3	3	3449	126.4		3	3415	798.2	3	3282	716.0	3	3249	631.3	3	215
:	3483				128.8		3	3416	800.7	3	3283			ì	633.8	3	216
	3484	1211.8	3	3450	131.3		3	3417	803.2	3	3284	718.5	3	3250	636.3	3	217
3	3485	1214.2	3	3451	133.7		3	3418	805.7	3	3285	721.0	3	3251	638.8	3	218
3	3486	1216.7	3	3452	136.1		3	3419	808.2	3	3286	723.5	3	3252	641.3	3	219
3	3487	1219.1	3	3453					810.7	3	3287	726.0	3	3253			
3	3488	1221.5	3	3454	138.6		3	3420	813.1	3	3288	728.5	3	3254	643.8	3	220
3	3489	1224.0	3	3455	141.1		3	3421	815.6	3	3289	731.0	3	3255	646.3	3	221
		1226.4	3	3456	143.5		3	3422			ļ	733.5	3	3256	648.8	3	222
3	3490	1228.8	3	3457	145.9		3	3423	818.1	3	3290	736.0	3	3257	651.3	3	223
3	3491	1231.3	3	3458	148.4		3	3424	820.6	3	3291	738.5	3	3258	653.7	3	224
3	3492	1233.7	3	3459	150.8		3	3425	823.1	3	3292	741.0	3	3259	656.2	3	225
3	3493			1	153.3		3	3426	825.6	3	3293)	658.7	3	226
3	3494	1236.1	3	3460	155.7		3	3427	828.1	3	3294	743.5	3	3260	661 2	3	227
3	3495	1238.6	3	3461	158.1		3	3428	830.6	3	3295	746.0	3	3261	663.7	3	228
3	3496	1241.0	3	3462	160.6		3	3429	833.0	3	3296	748.5	3	3262	666.2	3	229
3	3497	1243.4	3	3463					835.5	3	3297	751.0	3	3263			
3	3498	1245.9	3	3464	163.0		3	3430	838.0	3	3298	753.5	3	3264	668.7	3	230
3	3499	1248.3	3	3465	165.5		3	3431	840.5	3	3299	756.0	3	3265	671.2	3	231
		1250.7	3	3466	167.9		3	3432			Į.	758.5	3	3266	673.7	3	232
3	3500	1253.2	3	3467	170.3		3	3433	843.0	3	3300	761.0	3	3267	676.2	3	233

Use check point at 3150 or 3300 Kc, whichever is nearer

Frequency: 3300-3400 Kc

Use check point at 3450 Kc

Frey.	A	В	Freq.	A	В	Freq.	A	В
3300	3	843.0	3334	3	927.1	3368	3	0.1101
3301	3	845.5	3335	3	929.6	3369	3	1013.5
3302	3	848.0	3336	3	932.1	Į .		
3303	3	850.4	3337	3	934.6	3370	3	1015.9
3304	3	852.9	3338	3	937.0	3371	3	1018.4
3305	3	855.4	3339	3	939.5	3372	3	1020.9
3306	3	857.9				3373	3	1023.3
3307	3	860.3	3340	3	942.0	3374	3	1025.8
3368	3	862.8	3341	3	944.4	3375	3	1028.3
3309	3	865 3	3342	3	946.9	3376	3	1030.7
			3543	3	949.4	3377	3	1033.2
3310	3	867.8	3344	3	951 9	3378	3	1035.7
3311	3	870 2	3345	3	954 3	3379	3	1038.1
3312	3	872.7	3346	3	956.8	l		
3313	3	875.2	3347	3	959.3	3380	3	1040.6
3314	3	877.7	3348	3	961.7	3381	3	1043.1
3315	3	880.1	3349	3	964.2	3382	3	1045.5
3316	3	882.6				3383	3	1048.0
3317	3	885.1	3350	3	966.6	3384	3	1050.5
3318	3	887.6	3351	3	969.1	3385	3	1052.9
3319	3	0.068	3352	3	971.6	3386	3	1055.4
			3353	3	974.0	3387	3	1057.9
3320	3	892.5	3354	3	9 76.5	3388	3	1060.3
332t	3	895.0	3355	3	978.9	3389	3	1062.8
3322	3	897.4	3356	3	981.4			
3323	3	899.9	3357	3	983.9	3390	3	1065.2
3324	3	902 4	3358	3	986.3	3391	3	1067.7
3325	3	904.9	3359	3	988.8	3392	3	1070.2
3326	3	907.3	2250			3393	3	1072.6
3327	3	909.8	3360	3	991.2	3394	3	1075.0
3328		912 3	3361		993.7	3395		1077 5
3329	3	914.8	3362	3	996.2	3396	3	1079.9
3330	3	0170	3363	3	998.6	3397	3	1082.4
		917.2 919.7	3364	3	1001.1	3398	3	1084.8
3331 3332	3	919.7	3365 3366	3	1003.6 1006.0	3399	3	1087.3
						3400	•	1000 7
3333	3	924 7	3367	3	1008.5	3400	3	1089 7

Use check point at 3300 or 3450 Kc, whichever is nearer

Frequency: 3500-3600 Kc

Freq.	Α	В	Freq.	A	В	Freq.	A	В
3500	3	1333.7	3534	3	1416.7	3568	3	1499.9
3501	3	1336.2	3535	3	1419.1	3569	3	1502.4
3502	3	1338.6	3536	3	1421.6	ļ		
3503	3	1341.0	3537	3	1424.0	3570	3	1504.8
3504	3	1343.5	3538	3	1426.5	3571	3	1507.3
3505	3	1345.9	3539	3	1428.9	3572	3	1509.7
3506	3	1348.4				3573	3	1512.2
3507	3	1350.8	3540	3	1431.4	3574	3	1514.7
3508	3	1353.2	3541	3	1433.8	3575	3	1517.1
3509	3	1355.7	3542	3	1436.2	3576	3	1519.6
			3543	3	1438.7	3577	3	1522.0
3510	3	1358.1	3544	3	1441.1	3578	3	1524.5
3511	3	1360.6	3545	3	1443.5	3579	3	1527.0
3512	3	1363.0	3546	3	1446.0	}		
3513	3	1365.4	3547	3	1448.4	3580	3	1529.4
3514	3	1367.9	3548	3	14508	3581	3	1531.9
3515	3	1370.3	3549	3	1453,3	3582	3	1534.3
3516	3	1372.7				3583	3	1536.8
3517	3	1375.2	3550	3	1455.7	3584	3	1539.3
3518	3	1377.6	3551	3	1458.1	3585	3	1541.7
3519	3	1380.0	3552	3	1460 6	3586	3	1544.2
			3553	3	1463.0	3587	3	1546.7
3520	3	1382.5	3554	3	1465.4	3588	3	1549.1
3521	3	1384.9	3555	3	1467.9	3589	3	1551.6
3522	3	1387.3	3556	3	1470.3	ļ		
3523	3	1389.8	3557	3	1472.8	3590	3	1554.1
3524	3	1392.2	3558	.3	1475.3	3591	3	1556.6
3525	3	1394.6	3559	3	1477.7	3592	3	1559.1
3526	3	1397 1				3593	3	1561 5
3527	3	1399 5	3560	3	1480.2	3594	3	1564 0
3528	3	1402 0	3561	3	1482.6	3595	3	1566.5
3529	3	1404 4	3562	3	1485.1	3596	3	1569.0
			3563	3	1487.6	3597	3	1571 4
3530	3	1406 9	3564	3	1490.0	3598	3	1673.9
3531	.3	1409.3	3565	3	1492.5	3599	3	1576.4
3532	3	1411.8	3566	3	1495.0	\		
3533	3	1414.2	3567	3	1497.4	3600	3	1578.9
			<u> </u>			<u> </u>		

Use check point at 3450 or 3600 Kc, whichever is nearer

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

		Frequ	ency:	360	0-37	00 Kc					Frequ	ency:	J90	20 –39	00 Kc		
τeu.	Α	B	Freq.	Α	В	Freq.	Α	В	Frey.	A	В	Freq.	A	В	Freq.	A	
3600	4	60.0	3634	4	129.5	3668	4	198.4	3800	4	467.4	3834	4	537.4	3868	4	60
3601	4	62.0	3635	4	131.5	3669	4	200.4	3801	4	469.5	3835	4	539.4	3869	4	60
602	4	64.1	3636	4	133.5	l .			3802	4	471.5	3836	4	541.5			
603	4	66.1	3637	4	135.6	3670	4	202.5	3803	4	473.5	3837	4	543.6	3870	4	6
604	4	68.2	3638	4	137.6	3671	4	204.5	3804	4	475.6	3838	4	545.6	3871	4	6
3605	4	70.2	3639	4	139.6	3672	4	206.5	3805	4	477.6	3839	4	547.7	3872	4	6
36C6	4	72.3				3673	4	208.5	3806	4	479.7				3873	4	•
3607	4	74.3	3640	4	141.7	3674	4	210.6	3807	4	481.7	3840	4	549.7	3874	4	•
3608	4	76.4	3641	4	143.7	3675	4	212.6	3808	4	483.7	3841	4	551.8	3875	4	•
3609	4	78.4	3642	4	145.7	3676	4	214.6	3809	4	485.8	3842	4	553.8	3876	4	•
			3643	4	147.7	3677	4	216.6				3843	4	555.9	3877	4	
610	4	80.4	3644	4	149.8	3678	4	218 7	3810	4	487.8	3844	4	557.9	3878	4	
3611	4	82.5	3645	4	151.8	3679	4	220.7	3811	4	489.9	3845	4	560.0	3879	4	- (
612	4	84.5	3646	4	153.8			••••	3812	4	492.0	3846	4	562.1			
3613	4	86.6	3647	4	155.9	3680	4	222.7	3813	4	494.0	3847	4	564.1	3880	4	
614	4	88.6	3648	4	157.9	3681	4	224.7	3814	4	496.1	3848	4	566.2	3881	4	
615	4	90.7	3649	4	159 9	3682	4	226.8	3815	4	498.2	3849	4	568.2	3882	4	
616	4	92.7	1			3683	4	228.8	3816	4	500.2	1			3883	4	
617	4	94.7	3650	4	161.9	3684	4	230.8	3817	4	502.3	3850	4	570.3	3884	4	
618	4	96.8	3651	4	164.0	3685	4	232.8	3818	4	504.4	3851	4	572.3	3885	4	
619	4	98.8	3652	4	166.0	3686	4	234.9	3819	4	506.5	3852	4	574.4	3886	4	
			3653	4	168.0	3687	4	236.9				3853	4	576.5	3887	4	- 1
620	4	100.9	3654	4	170.0	3688	4	238.9	3820	4	508.5	3854	4	578.5	3888	4	-
621	4	102.9	3655	4	172.1	3689	4	240.9	3821	4	510.6	3855	4	580.6	3889	4	-
622	4	105.0	3656	4	174.1				3822	4	512.7	3856	4	582.6	1		
623	4	107.0	3657	4	176.1	3690	4	243.0	3823	4	514.8	3857	4	584.7	3890	4	
624	4	109.1	3658	4	178.1	3691	4	245.0	3824	4	516.8	3858	4	586.8	3891	4	
625	4	111.1	3659	4	180.2	3692	4	247.0	3825	4	518.9	3859	4	588.8	3892	4	
626	4	113.1				3693	4	249.1	3826	4	521.0	1			3893	4	
3627	4	115.2	3660	4	182.2	3694	4	251.1	3827	4	523.0	3860	4	590.9	3894	4	
3628	4	117.2	3661	4	184.2	3695	4	253.1	3828	4	525.1	3861	4	593.0	3895	4	
629	4	119.3	3662	4	186.2	3696	4	255.2	3829	4	527.1	3862	4	595.0	3896	4	,
			3663	4	188.3	3697	4	257.2	3025	•	327.1	3863	4	597.1	3897	4	
630	4	121.3	3664	4	190.3	3698	4	259.2	3830	4	529.2	3864	4	599.2	3898	4	i
3631	4	123.4	3665	4	192.3	3699	4	261.3	3831	4	531.2	3865	4	601.2	3899	4	ì
3632	4	125.4	3666	4	194.3	-,,,,			3832	4	533.3	3866	4	603.3	0305		
3633	4	127.4	3667	4	196.4	3700	4	263.3	3833	4	535.3	3867	4	605.4	3900	4	•

Use check point at 3600 or 3750 Kc, whichever is nearer

Use check point at 3750 or 3900 Kc, whichever is nearer

		Frequ	ency:	370	00-380	00 Kc		
Frey.	Α	В	Freq.	Α	В	Freq.	A	В
3700	4	263.3	3734	4	332.4	3768	4	401.8
3701	4	265.4	3735	4	334.5	3769	4	403.8
3702	4	267.4	3736	4	336.5	i i		
3703	4	269.4	3737	4	338.6	3770	4	405.9
3704	4	271.5	3738	4	340.6	3771	4	407 9
3705	4	273.5	3739	4	342.7	3772	4	410.0
3706	4	275.5				3773	4	412.0
3707	4	277.6	3740	4	344.7	3774	4	414.1
3708	4	279.6	3741	4	346.8	3775	4	416.1
3709	4	281.6	3742	4	348.8	3776	4	418.2
			3743	4	350.8	3777	4	420.2
3710	4	283.6	3744	4	352.9	3778	4	422.3
3711	4	285.7	3745	4	354.9	3779	4	424.3
3712	4	287.7	3746	4	357.0			
3713	4	289.7	3747	4	359.0	3780	4	426.4
3714	4	291.7	3748	4	361.1	3781	4	428.4
3715	4	293.8	3749	4	363.1	3782	4	430.5
3716	4	295.8				3783	4	432.6
3717	4	297.8	3750	4	365.2	3784	4	434.6
3718	4	299.8	3751	4	367.2	3785	4	436.7
3719	4	301.9	3752	4	369.2	3786	4	438.7
			3753	4	371.2	3787	4	440.8
3720	4	303.9	3754	4	373.3	3788	4	442.8
3721	4	305.9	3755	4	375.3	3789	4	444.9
3722	4	308 0	3756	4	377.3	l		
3723	4	310.0	3757	4	379.4	3790	4	447.0
3724	4	312.1	3758	4	381.4	3791	4	449.0
3725	4	314.1	3759	4	383.4	3792	4	451.1
3726	4	316.1	ļ			3793	4	453.1
3727	4	318.2	3760	4	385.5	3794	4	455.2
3728	4	320.2	3761	4	387.5	3795	4	457.2
3729	4	322.2	3762	4	389.5	3796	4	459 3
			3763	4	391.6	3797	4	461.3
3730	4	324 3	3764	4	393.6	3798	4	463.4
3731	4	326.3	3765	4	395.6	3799	4	465.4
3732	4	328.4	3766	4	397.7	1		
3733	4	330.4	3767	4	399.7	3800	4	467.4

Use check point at 3750 Kc

		Frequ	ency:	390	00-400	X Kc		
Frey.	A	В	Freq.	А	В	Freq.	A	В
3900	4	673.4	3934	4	743.4	3968	4	813.4
3901	4	675.5	3935	4	745.5	3969	4	815.5
3902	4	677.5	3936	4	747.5			
3903	4	679.6	3937	4	749.6	3970	4	817.6
3904	4	681.6	3938	4	751.6	3971	4	819.7
3905	4	683.7	3939	4	753.7	3972	4	821.7
3906	4	685.8				3973	4	823.8
3907	4	687.8	3940	4	755.7	3974	4	825.9
3908	4	689.9	3941	4	757.8	3975	4	828.0
3909	4	691.9	3942	4	759.8	3976	4	830.0
			3943	4	761.9	3977	4	832.1
3910	4	694.0	3944	4	763.9	3978	4	834.1
3911	4	696.0	3945	4	766.0	3979	4	836.2
3912	4	698.1	3946	4	768.0	ł		
3913	4	700.1	3947	4	770.1	3980	4	838 2
3914	4	702.2	3948	4	772.1	3981	4	840.3
3915	4	704.2	3949	4	774.2	3982	4	842.3
3916	4	706.3	ì			3983	4	844.4
3917	4	708.4	3950	4	776.3	3984	4	846.4
3918	4	710.4	3951	4	778.3	3985	4	848.5
3919	4	712.5	3952	4	780.4	3986	4	850.5
			3953	4	782.4	3987	4	852.6
3920	4	714.6	3954	4	784.5	3988	4	854.7
3921	4	716.6	3955	4	786.6	3989	4	856.7
3922	4	718.7	3956	4	788.6	l		
3923	4	720.8	3957	4	790.7	3990	4	858 8
3924	4	722.9	3958	4	792.7	3991	4	860.8
3925	4	724.9	3959	4	794.8	3992	4	862.8
3926	4	727.0	1			3993	4	864.8
3927	4	729.1	3960	4	796.9	3994	4	866.9
3928	4	731 1	3961	4	798.9	3995	4	868.9
3929	4	733.2	3962	4	801.0	3996	4	870.9
			3963	4	803.1	3997	4	872.9
3930	4	735.3	3964	4	805 2	3998	4	875.0
3931	4	737.3	3965	4	807.2	3999	4	877.0
3932	4	739.4	3966	4	809.3	l		
3933	4	741.4	3967	4	811.4	4000	4	879.0

Use check point at 3900 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

		Frequ	ency:	400	00-410	10 Kc		
Freq.	A	В	Freq.	A	В	Freq.	A	В
4900	5	180.1	4034	5	162.9	4068	5	225.4
4001	5	102.0	4035	5	164.8	4069	5	227.2
4002	5	103.8	4036	5	166.6			
4003	5	105.7	4037	5	168.5	4070	5	229.1
4004	5	107.5	4038	5	170.3	4071	5	230.9
4005	5	109.4	4039	5	172.1	4072	5	232.7
4006	5	111.2				4073	5	234.6
4007	5	113.1	4040	5	174.0	4074	5	236.4
4008	5	114.9	4041	5	175.8	4075	5	238.3
4009	5	116.8	4042	5	177.7	4076	5	240.1
			4043	5	179.5	4077	5	241.9
4010	5	118.6	4044	5	181.3	4078	5	243.8
4011	5	120.5	4045	5	183.2	4079	5	245.6
4012	5	122.3	4046	5	185.0			
4013	5	124.2	4047	5	186.8	4080	5	247.4
4014	5	126.0	4048	5	188.7	4081	5	249.3
4015	5	127.9	4049	5	190.5	4082	5	251.1
4016	5	129.7				4063	5	253.0
4017	5	131.6	4050	5	192.3	4084	5	254.8
4018	5	133.4	4051	5	194.2	4085	5	256.7
4019	5	135.3	4052	5	196.0	4086	5	258.5
			4053	5	197.8	4087	5	260.3
4020	5	137.1	4054	5	199.7	4088	5	262.2
4021	5	139.0	4055	5	201.5	4089	5	264.0
4022	5	140.8	4056	5	203.4	ł		
4023	5	142.7	4057	5	205.2	4090	5	265.9
4024	5	144.5	4058	5	207.0	4091	5	267.7
4025	5	146.4	4059	5	208.9	4092	5	269.6
4026	5	148.2				4093	5	271.4
4027	5	150.0	4060	5	210.7	4094	5	273.2
4028	5	151.9	4061	5	212.5	4095	5	275.1
4029	5	153.7	4062	5	214.4	4096	5	276.9
			4063	5	216.2	4097	5	278.8
4030	5	155.6	4064	5	218.0	4098	5	280.6
4031	5	157.4	4065	5	219.9	4099	5	282.5
4032	5	159.2	4066	5	221.7.			
4033	5	161.1	4067	5	223.6	4100	5	284.3

Use check point at 4000 Kc

Frequency: 4100-4200 Kc

Freq.	A	Ð	Freq.	A	В	Freq.	Α	В
4100	5	284.3	4134	5	347.1	4168	5	410.0
4101	5	286.1	4135	5	348.9	4169	5	411.8
4102	5	288.0	4136	5	350.8			
4103	5	289.8	4137	5	352.6	4170	5	413.7
4104	5	291.7	4138	5	354.5	4171	5	415.6
4105	5	293.5	4139	5	356.3	4172	5	417.4
4106	5	295.4				4173	5	419.3
4107	5	297.2	4140	5	358.1	4174	5	421.2
4108	5	299.1	4141	5	360.0	4175	5	423.0
4109	5	300.9	4142	5	361.8	4176	5	424.9
			4143	5	363.7	4177	5	426.7
4110	5	302.8	4144	5	365.5	4178	5	428.6
4111	5	304.6	4145	5	367.4	4179	5	430.5
4112	5	306.5	4146	5	369.2	ľ		
4113	5	308.3	4147	5	371.1	4180	5	432.3
4114	5	310.2	4148	5	372.9	4181	5	434.2
4115	5	312.0	4149	5	374.8	4182	5	436.1
4116	5	313.9	l			4183	5	437.9
4117	5	315.7	4150	5	376.6	4184	5	439.8
4118	5	317.5	4151	5	378.4	4185	5	441.7
4119	5	319.4	4152	5	380.3	4186	5	443.5
			4153	5	382.1	4187	5	445.4
4120	5	321.2	4154	5	384.0	4188	5	447.2
4121	5	323.1	4155	5	385.8	4189	5	449.1
4122	5	324.9	4156	5	387.7			
4123	5	326.8	4157	5	389.5	4190	5	451.0
4124	5	328.6	4158	5	391.4	4191	5	452.8
4125	5	330.5	4159	5	393.2	4192	5	454.7
412E	5	332.3				4193	5	456.5
4127	5	334.2	4160	5	395.1	4194	5	458.4
4126	5	336.0	4161	5	396.9	4195	5	460.3
4129	5	337.8	4162	5	398.8	4196	5	462.1
			4163	5	400.7	4197	5	464.0
4130	5	339.7	4164	5	402.5	4198	5	465.₽
4131	5	341.5	4165	5	404.4	4199	5	467.7
4132	5	343.4	4166	5	406.2	1		
4133	5	345.2	4167	5	406.1	4200	5	469.6
						<u> </u>		

Use check point at 4200 Kc

Frequency: 4200-4300 Kc

Freq.	Ā	8	Freq.	Α	В	Freq.	A	В
4200	5	469.6	4234	5	532.9	4268	5	596.4
4201	5	471.4	4235	5	534.8	4269	5	598.3
4202	5	473.3	4236	5	536.6	7203	•	350.3
4203	5	475.2	4237	5	538.5	4270	5	600.1
4204	5	477.0	4238	5	540.4	4271	5	602.0
4205	5	478.9	4239	5	542.3	4272	5	603.9
4206	5	480.7	1205	•	312.5	4273	5	605.7
4207	5	482.6	4240	5	544.1	4274	5	607.6
4208	5	484.4	4241	5	546.0	4275	5	609.5
4209	5	486.3	4242	5	547.9	4276	5	611.4
			4243	5	549.7	4277	5	613.2
4210	5	488.2	4244	5	551.6	4278	5	615.1
4211	5	490.0	4245	5	553.4	4279	5	617.0
4212	5	491.9	4246	5	555.3		-	
4213	5	493.7	4247	5	557.2	4280	5	618.8
4214	5	495.6	4248	5	559.0	4281	5	620.7
4215	5	497.4	4249	5	560.9	4282	5	622.6
4216	5	499.3				4283	5	624.5
4217	5	501.1	4250	5	562.8	4284	5	626.3
4218	5	503.0	4251	5	564.6	4285	5	628.2
4219	5	504.9	4252	5	566.5	4286	5	630.1
			4253	5	568.4	4287	5	631.9
4220	5	506.7	4254	5	570.2	4268	5	633.8
4221	5	508.6	4255	5	572.1	4289	5	635.7
4222	5	510.5	4256	5	574.0		-	
4223	5	512.3	4257	5	575.8	4290	5	637.5
4224	5	514.2	4258	5	577.7	4291	5	639.4
4225	5	516.1	4259	5	579.6	4292	5	641.3
4226	5	5179	i		•	4293	5	643.2
4227	5	519.8	4260	5	581.4	4294	5	645.0
4228	5	521.7	4261	5	583.3	4295	5	646.9
4229	5	523.6	4262	5	585.2	4296	5	648.8
			4263	5	587.0	4297	5	650.6
4230	5	525.4	4264	5	588.9	4298	5	652.5
4231	5	527.3	4265	5	590.8	4299	5	654.4
4232	5	529.2	4266	5	592.6	I -		
7636		531.0	4267	5	594.5	4300	5	656.2

Use check point at 4200 Kc

Frequency: 4300—4400 Kc

Freq.	Α	B	Freq.	Α	В	Freq.	A	В
4300	5	656.2	4334	5	719.8	4368	5	783.3
4301	5	658.1	4335	5	721.6	4369	5	785.2
4302	5	660.0	4336	5	723.5			
4303	5	661.8	4337	5	725.4	4370	5	787.1
4304	5	663.7	4338	5	727.2	4371	5	788.9
4305	5	665.6	4339	5	729.1	4372	5	790.8
4306	5	667.4				4373	5	792.7
4307	5	669.3	4340	5	731.0	4374	5	794.5
4308	5	671.2	4341	5	732.9	4375	5	796.4
4309	5	673.0	4342	5	734.7	4376	5	798.2
			4343	5	736.6	4377	5	800.1
4310	5	674.9	4344	5	738.5	4378	5	802.0
4311	5	676.8	4345	5	740.4	4379	5	803.8
4312	5	678.6	4346	5	742.2		_	
4313	5	680.5	4347	5	744.1	4380	5	805.7
4314	5	682.4	4348	5	746.0	4381	5	807.5
4315 4316	5 5	684.2	4349	5	747.8	4382	5	809.4
	5	686.1		_		4383	5	811.3
4317 4318	5	688.0 8.88	4350 4351	5	749.7 751.6	4384 4385	5	813.1
4319	5		4352	5			5	815.0
4319	Đ	691.7	4353	5 5	753.5 755.3	4386 4387	5 5	816.9 818.7
4320	5	693.6	4354	5	757.2	4388	5	820.6
4321	5	695.5	4355	5	757.2	4389	5	822.5
4322	5	697.3	4356	5	761.0	4369	3	822.3
4323	5	699.2	4357	5	762.8	4390	5	824.3
4324	5	701.1	4358	5	764.7	4391	5	826.2
4325	5	702.9	4359	5	766.6	4392	5	828.1
4326	5	704.8	"""	٠	700.0	4393	5	829.9
4327	5	706.7	4360	5	768.5	4394	5	B31.8
4328	5	708.5	4361	5	770.3	4395	5	833.7
4329	5	710.4	4362	5	772.2	4396	5	835.5
	-		4363	5	774.0	4397	5	837.4
4330	5	712.3	4364	5	775.9	4398	5	839.3
4331	5	714.2	4365	5	777.8	4399	5	841.1
4332	5	716.0	4366	5	779.6	1	-	
4333	5	717.9	4367	5	781.5	4400	5	843.0

Use check point at 4400 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

		predi	sency:	440	XX45	00 Kc		_			Frequ	ency:	46	00-47	00 Kc		
req.	A	В	Freq.	A	В	Freq.	A	В	Freq.	_	В	Freq.	A	В	Freq.	A	
1400	5	843.0	4434	5	906.1	4468	5	979.1	4600	5	1211.8	4634	5	1273.9	4668	5	
4401	5	844.9	4435	5	908.0	4469	5	970.9	4601	5	1213.6	4635	5	1275.7	4669	5	
4402	5	846.7	4436	5	909.8	l			4602	5	1215.4	4636	5	1277.5		_	
4403	5	848.6	4437	5	911.7	1470	5	972.8	4603	5	1217.3	4637	5	1279.4	4670	5	
4404	5	850.4	4438	5	913.5	4471	5	974.6	4804	5	1219.1	4638	5	1281.2	4671	5	
4406	5	852.3	4439	5	915.4	4472	5	976.5	4606	5	1220.9	4639	5	1283.0	4672	5	
4406	5	854.1	1			4473	5	978.3	4606	5	1222.7				4673	5	
4407	5	856.0	4440	5	917.2	4474	5	980.2	4607	5	1224.6	4640	5	1284.8	4674	5	
4408	5	857.8	4441	5	919.1	4475	5	982.0	4608	5	1226.4	4641	5	1286.7	4675	5	
4409	5	859.7	4442	5	921.0	4476	3	983.9	4609	5	1228.2	4642	5	1288.5	4676	5	
			4443	5	922.8	4477	5	985.7				4643	5	1290.3	4677	5	
4410	5	861.6	4444	5	924.7	4478	5	987.6	4610	5	1230.0	4644	5	1292.2	4678	5	
4411	5	863.4	4445	5	926.5	4479	5	989.4	46]1	5	1231.9	4645	5	1294.0	4679	5	
4412	5	865.3	4446	5	928.4	l			4612	5	1233.7	4646	5	1295.8			
4413	5	867.1	4447	5	930.2	4480	5	991.2	4613	5	1235.5	4647	5	1297.7	4680	5	
4414	5	869.0	4448	5	932.1	4481	5	993.1	4614	5	1237.3	4648	5	1299.5	4681	5	
4415	5	870.8	4449	5	933.9	4482	5	994.9	4615	5	1239.2	4649	5	1301.3	4682	5	
4416	5	872.7				4483	5	996.8	4616	5	1241.0				4683	5	
4417	5	874.6	4450	5	935.8	4484	5	998.6	4617	5	1242.8	4650	5	1303.2	4684	5	
4418	5	876.4	4451	5	937.6	4485	5	1000.5	4618	5	1244.6	4651	5	1305.0	4685	5	
4419	5	878.3	4452	5	939.5	4486	5	1002.3	4619	5	1246.5	4652	5	1306.8	4686	5	
			4453	5	941.4	4487	5	1004.2				4653	5	1308.7	4687	5	
4420	5	880.1	4454	5	943.2	4488	5	1006.0	4620	5	1248.3	4654	5	1310.5	4688	5	
4421	5	882.0	4455	5	945.1	4489	5	1007.9	4621	5	1250.1	4655	5	1312.4	4689	5	
4422	5	883.8	4456	5	946.9	1			4622	5	1252.0	4656	5	1314.2	~~~	-	
4423	5	885,7	4457	5	948.8	4490	5	1009.7	4623	5	1253.8	4657	5	1316.0	4690	5	
4424	5	887.5	4456	5	960.6	4491	5	1011.6	4624	5	1255.6	4658	5	1317.9	4691	5	
4425	5	889.4	4459	5	952.5	4492	5	1013.5	4625	5	1257.4	4659	5	1319.7	4692	5	
4426	5	891.3	I			4493	5	1015.3	4626	5	1259.3		_		4693	5	
4427	5	893.1	4460	5	954.3	4494	5	1017.2	4627	5	1261.1	4660	5	1321.5	4694	5	
4428	5	895.0	4461	5	966.2	4495	5	1019.0	4628	5	1262.9	4661	5	1323.4	4695	8	
4429	5	896.8	4462	5	958.0	4496	5	1020.9	4629	5	1264.7	4662	5	1325.2	4696	5	
			4463	5	959.9	4497	5	1022.7	· -			4663	5	1327.0	4697	5	
4430	5	898,7	4464	5	961.7	4496	5	1024.6	4630	5	1266.6	4664	5	1328.8	4698	5	
4431	5	900.5	4465	6	963.6	4499	5	1026.4	4631	5	1268.4	4666	5	1330.7	4899	5	
4432	5	902.4	4466	5	965.4	1			4632	5	1270.2	4666	5	1332.5	"""	-	
4433	5	904.2	4467	5	967.3	4500	5	1028.3	4633	5	1272.1	4667	5	1334.3	4700	6	

Use check point at 4400 Kc

Use check point at 4460 Kz

Frequency: 4500-4600 Kc													
Freq.	Α	В	Freq.	A	В	Freq.	Ā	В					
4500	5	1028.3	4534	5	1090.9	4668	5	1153.3					
4501	5	1030,1	4535	5	1092.7	4569	5	1155.1					
4502	5	1032.0	4536	5	1094.6								
4503	5	1033.6	4537	5	1096.4	4670	5	1156.9					
4504	5	1035.7	4538	5	1098.2	4571	5	1158.8					
4505	5	1037.5	4539	5	1100.1	4672	5	1160.6					
4506	5	1039.4	l			4573	5	1162.4					
4507	6	1041.2	4540	5	1101.9	4574	5	1164.2					
4506	5	1043.1	4541	5	1103.7	4575	5	1166.1					
4509	5	1044.9	4542	5	1105.6	4576	5	1167.9					
	-		4543	5	1107.4	4577	5	1169.7					
4510	5	1046.8	4544	5	1109.3	4578	5	1171.6					
4511	5	1048.6	4545	5	1111.1	4579	5	1173.4					
4512	5	1050.5	4546	5	1112.9	•							
4513	5	1052.3	4547	5	1114.8	4580	5	1175.2					
4614	5	1054.2	4548	5	1116.6	4581	5	1177.1					
4575	5	1056,0	4549	5	1118.4	4582	5	1178.9					
4616	5	1057.9	l			4583	5	1180.7					
4517	5	1059.7	4550	5	1120.3	4584	5	1182.5					
4618	5	1061.6	4551	5	1122.1	4585	5	1184.4					
4519	5	1063.4	4552	5	1123.9	4586	5	1186.2					
			4553	5	1125.8	4587	5	1188.0					
4520	5	1065.3	4554	5	1127.6	4588	5	1189.9					
4821	5	1067.1	4555	5	1129.4	4589	5	1191.7					
4522	5	1068.9	4556	5	1131.3	1							
4523	5	1070.8	4657	5	1133.1	4590	5	1193.5					
4524	5	1072.6	4558	5	1134.9	4591	5	1195.3					
4625	5	1074.4	4559	5	1136.8	4592	5	1197.2					
4526	6	1076.3	ĺ			4593	5	1199.0					
4627	5	1078.1	4560	5	1138.6	4594	5	1200.8					
4528	5	1079.9	4561	5	1140.4	4595	5	1202.6					
4529	5	1081.8	4662	5	1142.3	4596	5	1204.5					
			4563	5	1144.1	4597	5	1206.3					
4530	5	1083.6	4564	5	1145.9	4598	5	1206.1					
4531	5	1085.4	4565	5	1147.8	4599	5	1210.0					
4532	5	1087.3	4566	5	1149.6	"	_						
4633	5	1089.1	4567	5	1151.4	4000	5	1711.8					

Use check point at 4400 Ks

Frequency: 4700-4800 Kc Freq. 4734 В Freq. A В Freq. 4768 B 1394.6 1396.5 1398.3 1400.1 1402.0 1456.9 1519.6 4700 1458.7 1460.6 4701 4702 4735 4769 1521.4 4703 4737 4738 1462.4 4770 1523.3 4771 1525.1 4704 4706 4706 1403.8 1405.7 1466.0 4739 4772 1527.0 4773 1528.8 4740 4741 4742 1467.9 1469.7 1471.6 1473.4 5 4707 4708 1407.5 1409.3 4774 1530.7 1532.5 4776 1534.3 4709 1411.2 4743 4744 4745 4748 4710 1413.0 4778 4779 1475.3 1538.0 5 5 1414.8 1416.7 1418.5 1420.3 1422.2 1424.0 4711 4712 1477.1 1479.0 4780 4781 4782 4783 4713 4747 4748 1480.8 1482.7 4714 1543.6 1545.4 1547.3 4715 4749 1484.5 1486.4 1486.2 1490.0 1491.9 1493.7 1495.6 1497.4 1425.9 4750 5 5 5 4784 4785 4786 4787 1549.1 1561.0 4717 4751 4752 4753 4754 4719 1429.5 1562.9 1564.7 1431.4 4720 4788 4789 5 1556.6 1433.2 1435.0 1436.8 1438.7 4755 4756 4721 1558.4 4722 4757 4758 4759 4723 4724 1499.3 1501.1 4790 1560.3 4791 4792 4793 4794 4795 1562.1 1564.0 1440.5 1442.3 1444.1 1446.0 4725 4726 1503.0 5 5 1565.9 4760 4761 4762 4763 1504.8 1506.7 4727 1567.7 4728 5 5 5 1569.6 1508.5 1510.4 4796 4798 4798 1571.4 1573.3 1575.1 4729 1447.8 5 5 5 5 4730 1449.6 4764 4765 1512.2 1514.1 1451.4 1453.3 4731 4799 1577.0 5 4732 4766 1515.9 1455.1 4767 4733 4000 5 1578.5 1517.7

Use check point at 4800 Ke

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

	Frequency: 4800—4900 Kc								Frequ	ency:	500	DO-51	00 Kc				
req.	A	В	Freq.	A	В	Frey.	A	В	Freq.	A	В	Freq.	A	В	Freq.	A	В
4800	6	60.0	4834	6	112.1	4868	6	164.0	5000	6	365.2	5034	6	417.2	5068	6	46
1801	6	61.5	4835	6	113.7	4869	6	165.5	5001	6	366.7	5035	6	418.7	5069	6	47
1802	6	63.1	4836	6	115.2	l			5002	6	368.2	5036	6	420.2	1		
4803	6	64.6	4837	6	116.7	4870	6	167.0	5003	6	369.7	5037	6	421.8	5070	6	47
4804	6	66.1	4838	6	118.3	4871	6	168.5	5004	6	371.3	5038	6	423.3	5071	6	47
4805	6	67.7	4839	6	119.8	4872	6	170.0	5005	6	372.8	5039	6	424.8	5072	6	47
4806	6	69.2	1			4873	6	171.6	5006	G	374.3	1			5073	6	47
4807	6	70.7	4840	6	121.3	4874	6	173.1	5007	6	375.8	5040	6	426.4	5074	6	47
4808	6	72.3	4841	6	122.8	4875	6	174.6	5008	6	377.3	5041	6	427.9	5075	6	48
4809	6	73.8	4842	6	124.4	4876	6	176.1	5009	6	378.9	5042	6	429.5	5076	6	48
			4843	6	125.9	4877	6	177.6				5043	6	431.0	5077	6	48
4810	6	75.3	4844	6	127.4	4878	6	179.1	5010	6	380.4	5044	6	432.6	5078	6	48
4811	6	76.9	4845	6	128.9	4879	6	180.7	5011	6	381.9	5045	6	434.1	5079	6	48
4812	6	78.4	4846	6	130.5	1			5012	6	383.4	5046	6	435.6	ı		
4813	6	79.9	4847	6	132.0	4880	6	182.2	5013	6	385.0	5047	6	437.2	5080	6	48
4814	6	81.5	4848	6	133.5	4881	6	183.7	5014	6	386.5	5048	6	438.7	5081	6	48
4815	6	83.0	4849	6	135.0	4882	6	185.2	5015	6	388.0	5049	6	440.3	5082	6	49
4816	6	84.5	ĺ			4883	6	186.7	5016	6	389.5				5083	6	49
4817	6	86.1	4850	6	136.6	4884	6	188.3	5017	6	391.1	5050	6	441.8	5084	6	49
4818	6	87.6	4851	6	138.1	4885	6	189.8	5018	6	392.6	5051	6	443.4	5085	6	49
4819	6	89.1	4852	6	139.6	4886	6	191.3	5019	6	394.1	5052	6	444.9	5086	6	49
			4853	6	141.1	4887	6	192.8				5053	6	446.4	5087	6	49
4820	6	90.7	4854	6	142.7	4888	6	194.3	5020	6	395.6	5054	6	448.0	5088	6	50
4821	6	92.2	4855	6	144.2	4889	6	195.9	5021	6	397.2	5055	6	449.5	5089	6	50
4822	6	93.7	4856	6	145.7	1			5022	6	398.7	5056	6	451.1			
4823	6	95.3	4857	6	147.2	4890	6	197.4	5023	6	400.2	5057	6	452 6	5090	6	50
4824	6	96.8	4858	6	148.8	4891	6	198.9	5024	6	401.8	5058	6	454.2	5091	6	50
4825	6	98.3	4859	6	150.3	4892	6	200.4	5025	6	403.3	5059	6	455.7	5092	6	50
4826	6	99.9		-		4893	6	202.0	5026	6	404.8				5093	6	50
4827	6	101.4	4860	6	151.8	4894	6	203.5	5027	6	406.4	5060	6	457.2	5094	6	50
4828	6	102.9	4861	6	153.3	4895	6	205.0	5028	6	407.9	5061	6	458.8	5095	6	51
4829	6	104.5	4862	6	154.9	4896	5	206.5	5029	6	409.5	5062	6	460.3	5096	6	51
.023	٠		4863	6	156 4	4897	6	208.0	5025	•		5063	6	461.8	5097	6	51
4830	6	106.0	4864	6	157.9	4898	6	209.6	5030	6	411 0	5064	6	463.4	5098	6	51
4831	6	107.5	4865	6	159.4	4899	6	211.1	5031	6	412.5	5065	6	464.9	5099	6	51
4832	6	109.1	4866	6	160.9	1	-		5032	6	414.1	5066	6	466.4	1	-	
4833	6	110.6	4867	6	162.4	4900	6	212.6	5033	6	415.6	5067	6	467.9	5100	6	51
,000	٠		""	-					5000	_		1	-				

Frequency: 4900—5000 Kc												
Frey.	\overline{A}	В	Freq.	A	В	Freq.	A	В				
4900	6	212.6	4934	6	264.3	4968	6	316.1				
4901	6	214.1	4935	6	265.9	4969	6	317.7				
4902	6	215.6	4936	6	267.4							
4903	6	217.2	4937	6	268.9	4970	6	319.2				
4904	6	218.7	4938	6	270.4	4971	6	320.7				
4905	6	220.2	4939	6	272.0	4972	6	322.2				
4906	6	221.7				4973	6	323.8				
4907	6	223.2	4940	6	273.5	4974	6	325.3				
4908	6	224.7	4941	6	275.0	4975	6	326.8				
4909	6	226.3	4942	6	276.5	4976	6	328.4				
	-		4943	6	278.1	4977	6	329.9				
4910	6	227.8	4944	6	279.6	4978	6	331.4				
4911	6	229.3	4945	6	281.1	4979	6	333.0				
4912	6	230.8	4946	6	282.6							
4913	6	232.3	4947	6	284.1	4980	6	334.5				
4914	6	233.9	4948	6	285.7	4981	6	336.0				
4915	6	235.4	4949	6	287.2	4982	6	337 5				
4916	6	236.9				4983	6	339 1				
4917	6	238 4	4950	6	288.7	4984	6	340 6				
4918	6	239.9	4951	6	290.2	4985	6	342.2				
4919	6	241.4	4952	6	291.7	4986	6	343.7				
			4953	6	293.3	4987	6	345.2				
4920	6	243.0	4954	6	294.8	4988	6	346.8				
4921	6	244.5	4955	6	296.3	4989	6	348.3				
4922	6	246.0	4956	6	297 8	Į.						
4923	6	247.5	4957	6	299.3	4990	6	349.8				
4924	6	249.1	4958	6	300.9	4991	6	351 4				
4925	6	250 6	4959	6	302.4	4992	6	352 9				
4926	6	252.1	1			4993	6	354.4				
4927	6	253.6	4960	6	303.9	4994	6	356.0				
4928	6	255.2	4961	6	305.4	4995	6	357.5				
4929	6	256.7	4962	6	307 0	4996	6	359.6				
			4963	6	308.5	4997	6	360 6				
4930	6	258 2	4964	6	310.0	4998	6	362.1				
4931	6	259 8	4965	6	311.5	4999	6	363.6				
4932	6	261.3	4966	6	313.1							
4933	6	262.8	4967	6	314.6	5000	6	365.2				

Use check point at 5000 Kc

Use check point at \$200 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

Frequency: 5200—5300 Kc												
Freq.	A	B	Freq.	A	В	Freq.	A	B				
5200	6	673.4	5234	6	726.0	5268	6	778.3				
5201	6	675.0	5235	6	727.5	5269	6	779.9				
5202	6	676.5	5236	6	729.1							
5203	6	678.0	5237	6	730.6	5270	6	781.4				
5204	6	679.6	5238	6	732.2	5271	6	783.0				
5205	6	681.1	5239	6	733.7	5272	6	784.5				
5206	6	682.7				5273	5	786.0				
5207	6	684.2	5240	6	735.3	5274	6	787.6				
5208	6	685.7	5241	6	736.8	5275	6	789.1				
5209	6	687.3	5242	6	738.3	5276	6	790.7				
			52 4 3	6	739.9	5277	6	792.2				
5210	6	688.8	5244	6	741.4	5278	6	793.8				
5211	6	690.4	5245	6	742.9	5279	6	795.3				
5_12	6	691.9	5246	6	744.5	I						
5213	6	693.5	5247	6	746.0	5280	6	796.9				
5214	6	695.0	5248	6	747.5	5281	6	798.4				
5215	6	696.5	5249	6	749.1	5282	6	800.0				
5216	6	698.1	l			5283	6	801.5				
5217	6	699.6	5250	6	750.6	5284	6	803.				
5218	6	701.2	5251	6	752.1	5285	6	804.6				
5219	6	702.7	5252	6	753.7	5286	5	806.2				
			5253	6	755.2	5287	5	807.				
5220	6	704.2	5254	6	756.8	5288	6	809.				
5221	6	705.8	5255	6	758.3	5289	6	810.9				
5222	6	707.3	5256	6	759.8	****	-					
5223	6	708.9	5257	6	761 4	5290	6	812.4				
5224	6	710.4	5258	6	762.9	5291	6	814.0				
5225	6	712.0	5259	6	764.4	5292	6	815.5				
5226	6	713.5				5293	6	817.				
5227	6	715.1	5260	6	766.0	5294	6	818.6				
5228	6	716.6	5261	6	767.5	5295	6	820.3				
5229	6	718.2	5262	6	769.1	5296	6	821.7				
,	-		5263	6	770.6	5297	6	823				
5230	6	719.8	5264	6	772.1	5298	6	824.9				
5231	6	721.3	5265	6	773.7	5299	6	826.				
5232	6	722.9	5266	6	775.2	1	-					
5233	6	724.4	5267	6	776.8	5300	6	828.0				

Use check point at 5200 Kc

Frequency:	5300-5400	Kς

Freq.	A	В	Freq.	A	В	Freq.	A	В
5300	6	828.0	5334	6	880.0	5368	6	932.3
5301	6	829.5	5335	6	881.5	5369	6	933.B
5302	6	831.0	5336	6	883.1			
5303	6	832.6	5337	6	884.6	5370	6	935.3
5304	6	834.1	5338	6	886.1	5371	6	936.9
5305	6	835.7	5339	6	887.6	5372	6	938.4
5306	6	837.2				5373	6	939.9
5307	6	838.7	5340	6	889.1	5374	6	941.5
5308	6	840.3	5341	6	890.7	5375	6	943.0
5309	6	841.8	5342	6	892.2	5376	6	944.5
	_		5343	6	893.8	5377	6	946.1
5310	6	843.4	5344	6	895.3	5378	6	947.6
5311	6	844.9	5345	6	896.9	5379	6	949.1
5312	6	846.4	5346	6	898.4			
5313	6	848.0	5347	6	899.9	5380	6	950 7
5314	6	849.5	5348	6	901.5	5381	6	952.2
5315	6	851.1	5349	6	903.0	5382	6	953.7
5316	6	852.6		_		5383	6	955.3
5317	6	854.1	5350	6	904.6	5384	6	956.8
5318	6	855.7	5351	6	906.1	5385	6	958.3
5319	6	857.2	5352	6	907.7	5386	6	959.9
	_		5353	6	909.2	5387	6	961.4
5320	6	858.8	5354	6	910.8	5388	6	962.9
5321	6	860.3	5355	6	912.3	5389	6	964.5
5322	6	861.8	5356	6	913.8	ļ		
5323	6	863.3	5357	6	915.4	5390	6	966.0
5324	6	864.8	5358	6	916.9	5391	6	967.5
5325	6	866.4	5359	6	918.5	5392	6	969.1
5326	6	867.9		_		5393	6	970.6
5327	6	B69.4	5360	6	920.0	5394	6	972.2
5328	6	870.9	5361	6	921.6	5395	6	973.7
5329	6	872.4	5362	6	923.1	5396	6	975.2
F220	_	074.0	5363	6	924.6	5397	6	976.8
5330	6	B74.0	5364	6	926.1	5398	6	978.3
5331	6	875.5	5365	6	927 7	5399	6	979.8
5332	6	877.0	5366	6	929.2			
5333	6	878.5	5367	6	930.7	5400	6	981.4
			1					

Use check point at 5400 Kc

Frequency: 5400—5500 Kc

5400 6 5401 6 5402 6 5403 6 5404 6 5405 6 5406 6 5407 6		981.4 982.9 984.4 986.0 987.5 989.0 990.5	5434 5435 5436 5437 5438 5439	6 6 6 6	1033.3 1034.9 1036.4	5468 5469	6 6	1085.2 1086.7
5402 6 5403 6 5404 6 5405 6 5406 6 5407 6 5408 6		984.4 986.0 987.5 989.0	5436 5437 5438	6 6	1036.4	5469	6	1086.7
5403 6 5404 6 5405 6 5406 6 5407 6 5408 6	5	986.0 987.5 989.0	5437 5438	6		1		
5404 6 5405 6 5406 6 5407 6 5408 6) ; ;	987.5 989 0	5438		1007.0	ı		
5405 6 5406 6 5407 6 5408 6))	989 0		6	1037.9	5470	6	1088.2
5406 6 5407 6 5408 6	5		5439	•	1039.4	5471	6	1089.7
5407 6 5408 6	5	990.5		6	1041.0	5472	6	1091.3
5408						5473	6	1092.8
		992.1	5440	6	1042.5	5474	6	1094.3
	;	993.6	5441	6	1044.0	5475	6	1095.8
5409 6	3	995.1	5442	6	1045.5	5476	6	1097.3
			5443	6	1047.1	5477	6	1098.9
5410		996.7	5444	6	1048.6	5478	6	1100.4
5411 6		998.2	5445	6	1050.1	5479	6	1101 9
5412	5	999.7	5446	6	1051.6			
5413	5 1	001.3	5447	6	1053.2	5480	6	1103.4
5414 (; ;	8.200	5448	6	1054.7	5481	6	1105.0
5415	5 1	004.3	5449	6	1056.2	5482	6	1106 5
5416	3 1	005.8				5483	6	1108.0
5417 (5 1	007.4	5450	6	1057.7	5484	6	1109.5
5418	3 1	008.9	5451	6	1059.3	5485	6	1111.0
5419	5 1	1010.4	5452	6	1060.8	5486	6	1112.6
			5453	6	1062.3	5587	6	1114.1
5420	5 1	012.0	5454	6	1063.8	5488	6	1115.6
5421	5 1	1013.5	5455	6	1065.4	5489	6	1117.1
5422	6 1	1015.0	5456	6	1066.9	l		
5423	6 1	1016.5	5457	6	1068.4	5490	6	1118.6
5424	5 ·	1018.1	5458	6	1069.9	5491	6	1120.2
5425	6 '	1019.6	5459	6	1071.5	5492	6	1121.7
5426	6 '	1021.1				5493	6	1123.2
5427	5	1022.6	5460	6	1073.0	5494	6	1124.7
5428	6 '	1024.2	5461	6	1074.5	5495	6	1126.2
5429	6 '	1025.7	5462	6	1076.0	5496	6	1127.8
			5463	6	1077.5	5497	6	1129.3
5430	6 .	1027.2	5464	6	1079.1	5498	6	1130.8
5431	6	1028.7	5465	6	1080.6	5499	6	1132.3
		1030.3	5466	6	108? 1			
5433	6	1031.8	5467	6	1083.6	5500	6	1133.8
			l					

Use check point at \$400 Kc

Frequency: 5500-5600 Kc

Freq.	A	В	Freq.	A	В	Freq.	A	В
5500	6	1133.8	5534	6	1185.4	5568	6	1237.0
5501	6	1135.4	5535	6	1186.9	5569	6	1238.5
5502	6	1136.9	5536	6	1188.4			
5503	G	1138.4	5537	6	1189.9	5570	6	1240.0
5504	6	1139.9	5538	6	1191.4	5571	6	1241.5
5505	6	1141.4	5539	6	1192.9	5572	6	1243.0
5506	6	1143.0				5573	6	1244.5
5507	6	1144.5	5540	6	1194.4	5574	6	1246.0
5508	6	1146.0	5541	6	1196.0	5575	C	1247.6
5509	6	1147.5	5542	6	1197.5	5576	6	1249 1
			5543	6	1199.0	5577	6	1250.6
5510	6	1149.0	5544	6	1200.5	5578	6	1252.1
5511	6	1150.5	5545	6	1202.1	5579	6	1253.6
5512	6	1152.1	5546	6	1203.6	1		
5513	6	1153.6	5547	6	1205.1	5580	6	1255.1
5514	6	1155.1	5548	6	1206.6	5581	6	1256.6
5515	6	1156.6	5549	6	1208.1	5582	6	1258.1
5516	6	1158.1	l			5583	6	1259.6
5517	6	1159.7	5550	6	1209.7	5584	6	1261.1
5518	6	1161.2	5551	6	1211.2	5585	6	1262.7
5519	6	1162.7	5552	6	1212.7	5586	6	1264.2
			5553	6	1214.2	5587	6	1265.7
5520	6	1164.2	5554	6	1215.8	5588	6	1267.2
5521	6	1165.7	5555	6	1217.3	5589	6	1268.7
5522	6	1167.2	5556	6	1218.8	1		
5523	6	1168.8	5557	6	1220.3	5590	6	1270.2
5524	6	1170.3	5558	6	1221.9	5591	6	1271.7
5525	6	1171.8	5559	6	1223.4	5592	6	1273.2
5526	6	1173 3				5593	6	1274.7
5527	6	1174.8	5560	6	1224.9	5594	6	1276.2
5528	6	1176.3	5561	6	1226.4	5595	6	1277.8
5529	6	1177.8	5562	6	1227.9	5596	6	1279.3
			5563	6	1229.4	5597	6	1280.8
5530	6	1179.3	5564	6	1230.9	5598	6	1282.3
5531	6	1180.8	5565	6	1232 5	5599	6	1283.8
5532	6	1182.4	5566	6	1234.0	i		
5533	6	1183.9	5567	6	1235.5	5600	6	1285.3
			i			1		

Use check point at 5600 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

Frequency: 5600—5700 Kc											
Freq.	A	В	Freq.	Α	В	Freq.	A	В			
5600	6	1285.3	5634	6	1336.9	5668	6	1388.4			
5601	6	1286.8	5635	6	1338.4	5669	6	1389.9			
5602	6	1288.3	5636	6	1339.9	ì					
5603	6	1269.9	5637	6	1341.4	5670	6	1391.4			
5604	6	1291.4	5638	6	1342.9	5671	6	1393.0			
5605	6	1292.9	5639	6	1344.4	5672	6	1394.5			
5606	6	1294.4				5573	6	1396.0			
5607	6	1295.9	5640	6	1346.0	5674	6	1397.5			
5608	6	1297.4	5641	6	1347.5	5675	6	1399.0			
5609	6	1299.0	5642	6	1349.0	5676	6	1400.5			
			5643	6	1350.5	5677	6	1402.1			
5610	6	1300.5	5644	6	1352.0	5678	6	1403.6			
5611	6	1302.0	5645	6	1353.5	5679	6	1405.1			
5612	6	1303.5	5646	6	1355.1						
5613	6	1305.0	5647	6	1356.6	5680	6	1406.6			
5614	6	1306.6	5648	6	1358.1	5681	6	1408.1			
5615	6	1308.1	5649	6	1359.6	5682	6	1409.6			
5616	6	1309.6	l			5683	6	1411.2			
5617	6	1311.1	5650	6	1361.1	5684	6	1412.7			
5618	6	1312.6	5651	6	1362.6	5685	6	1414.2			
5619	6	1314.1	5652	6	1364.2	5686	6	1415.7			
			5653	6	1365.7	5687	6	1417.3			
5620	6	1315.7	5654	6	1367.2	5688	6	1418.8			
5621	6	1317.2	5655	6	1368.7	5689	6	1420.3			
5622	6	1318.7	5656	6	1370.2	i					
5623	6	1320.2	5657	6	1371.7	5690	6	1421.8			
5624	6	1321.7	5658	6	1373.2	5691	6	1423.4			
5625	6	1323.2	5659	6	1374.8	5692	6	1424.9			
5626	6	1324.8				5693	6	1426.4			
5627	6	1326.3	5660	6	1376.3		6	1427.9			
5628	6	1327.8	5661	6	1377.8	5695	6	1429.4			
5629	6	1329.3	5662	6	1379.3		6	1431.0			
			5663	6	1380.8	5697	6	1432.5			
5630	6	1330.8	5664	6	1382.3	5698	6	1434.0			
5631	6	1332.3	5665	6	1383.9	5699	6	1435.			
5632	6	1333.8	5666	6	1385.4						
5633	6	1335.4	5667	6	1386.9	5700	6	1437.1			

Use check point at 5600 Ka

Frequency: 5700-5800 Kc

Freq.	A	В	Freq.	A	В	Freq.	A	В
5700	6	1437.1	5734	6	1488.9	5768	6	1540.9
5701	6	1438.6	5735	6	1490.4	5769	6	1542.5
5702	6	1440.1	5736	6	1491.9			
5703	6	1441.6	5737	6	1493.5	5770	6	1544.0
5704	6	1443.2	5738	6	1495.0	5771	6	1545.5
5706	6	1444.7	5739	6	1496.5	5772	6	1547.0
5706	6	1446.2				5773	6	1548.6
5707	6	1447.8	5740	6	1498.0	5774	6	1550.1
5708	6	1449.3	5741	6	1499.6	5775	6	1551.6
5709	6	1450.8	5742	6	1501.1	5776	6	1553.2
			5743	6	1502.6	5777	6	1554.7
5710	6	1452.4	5744	6	1504.2	5778	6	1556.2
5711	6	1453.9	5745	6	1505.7	5779	6	1557.8
5712	6	1455.4	5746	6	1507.2	l	_	
5713	6	1455.9	5747	6	1508.8	5780	6	1559.3
5714	6	1458.5	5748	6	1510.3	5781	6	1560.8
5715	6	1460.0	5749	6	1511.8	5782	6	1562.4
5716	6	1461.5		_		5783	6	1563.9
5717	6	1463.1	5750	6	1513.4	5784	6	1565.4
5718	6	1464.6	5751	6	1514.9	5785	6	1567.0
5719	6	1466.1	5752	6	1516.4	5786	6	1568.5
			5753	6	1517.9	5787	6	1570.1
5720	6	1467.6	5754	6	1519.5	5788	6	1571.6
5721	6	1469.2	5755	6	1521.0	5789	6	1573.1
5722	6	1470.7	5756	6	1522.5	1	_	
5723	6	1472.2	5757	6	1524.1	5790	6	1574.7
5724	6	1473.7	5758	6	1525.6		6	1576.2
5725	6	1475.2	575 9	6	1527.1	5792	6	1577.8
5726	6	1476.8		_		5793	6	1579.3
5727	6	1478.3	5760	6	1528.7	5794	6	1580.8
5728	6	1479.8	5761	6	1530.2		6	1582.4
5729	6	1481.3	5762	6	1531.7		6	1583.9
	_		5763	6	1533.3		6	1585.5
5730	6	1482.8		6	1534.8		6	1587.0
5731	6	1484.3		6	1536.3		6	1588.5
5732	6	1485.9		6	1537.9		_	
5733	6	1487.4	5767	6	1539.4	5800	6	1594.1

Use check point at \$800 Kc

Frequency: 5800—5900 Kc

Freq.	Α	В	Freq.	Α	B	Freq.	Α	В.
5800	6	1590.1	5834	6	1642.9	5868	6	1696.2
5801	6	1591.6	5835	6	1644.5	5869	6	1697.8
5802	6	1593.2	5836	6	1646.0	ŀ		
5803	6	1594.7	5837	6	1647.6	5870	6	1699.3
5804	6	1596.3	5838	6	1649.1	5871	6	1700.9
5805	6	1597.8	5839	6	1650.7	5872	6	1702.5
5806	6	1599.4				5873	6	1704.1
5807	6	1600.9	5840	6	1652.3	5874	6	1705.7
5808	6	1602.5	5841	6	1653.8	5875	6	1707.2
5809	6	1604.0	5842	6	1655.4	5876	6	1708.8
			5843	6	1657.0	5877	6	1710.4
5810	6	1605.6	5844	6	1658.5	5878	6	1712.0
5811	6	1607.1	5845	6	1660.1	5879	6	1713.5
5812	6	1608.7	5846	6	1661.7			
5813	6	1610.2	5847	6	1663.2	5880	6	1715.1
5814	6	1611.8	5848	6	1664.8	5881	6	1716.7
5815	6	1613.3	5849	6	1666.3	5882	6	1718.3
5816	6	1614.9	l			5883	6	1719.9
5817	6	1616.4	5850	6	1667.9	5884	6	1721.5
5818	6	1618.0	5851	6	1669.5	5885	6	1723.0
5819	6	1619.5	5852	6	1671.0	5886	6	1724.6
			5853	6	1672.6	5887	6	1726.2
5820	6	1621.1	5854	6	1674.2	5888	6	1727.8
5821	6	1622.6	5855	6	1675.7	5889	6	1729.4
5822	6	1624.2	5856	6	1677.3	i		
5823	6	1625.7	5857	6	1678.9	5890	6	1731.0
5824	6	1627.3	5858	6	1680.4	5891	6	1732.5
5825	6	1628.9	5859	6	1682.0	5892	6	1734.1
5826	6	1630.4	l			5893	6	1735.7
5827	6	1632.0	5860	6	1683.6	5894	6	1737.3
5828	6	1633.5	5861	6	1685.1	5895	6	1738.9
5829	6	1635.1	5862	6	1686.7	5896	6	1740.5
			5863	6	1688.3	5897	6	1742.0
5830	6	1636.7	5864	6	1689.9	5898	6	1743.6
5831	6	1638.2	5865	6	1691.5	5899	6	1745.2
5832	6	1639.8	5866	6	1693.0	ì		
5833	6	1641.3	5867	6	1694.6	5900	6	1746.8
			1					

Use check point at 3800 Kc

Frequency: 5900-6000 Kc

Freq.	A	В	Freg.	A	В	Freq.	A	В
5900	6	1746.8	5934	6	1801.5	5968	6	1856.9
5901	6	1748.4	5935	6	1803.1	5969	6	1858.6
5902	6	1750.0	5936	6	1804.7			
5903	6	1751.6	5937	6	1806.3	5970	6	1860.2
5904	6	1753.2	5938	6	1808.0	5971	6	1861.9
5905	6	1754.8	5939	6	1809.6	5972	6	1863.5
5906	6	1756.4				5973	6	1865.2
5907	6	1758.0	5940	6	1811.2	5974	6	1866.8
5908	6	1759.6	5941	6	1812.8	5975	6	1868.5
5909	6	1761.2	5942	6	1814.4	5976	6	1870.1
			5943	6	1816.1	5977	6	1871.8
5910	6	1762.8	5944	6	1817.7	5978	6	1873.5
5911	6	1764.4	5945	6	1819.3	5979	6	1875.1
5912	6	1766.0	5946	6	1820.9	l		
5913	6	1767.7	5947	6	1822.6	5980	6	1876.8
5914	6	1769.3	5948	6	1824.2	5981	6	1878.4
5915	6	1770.9	5949	6	1825.8	5982	6	1880.1
5916	6	1772.5	1			5983	6	1881.7
5917	6	1774.1	5950	6	1827.4	5984	6	1883.4
5918	6	1775.7	5951	6	1829.1	5985	6	1885.1
5919	6	1777.3	5952	6	1830.7	5986	6	1886.7
	_		5953	6	1832.3	5987	6	1888.4
5920	6	1778.9	5954	6	1833.9	5988	6	1890.1
5921	6	1780.5	5955	6	1835.6	5989	6	1891.7
5922	6	1782.1	5956	6	1837.2		_	
5923	6	1783.7	5957	6	1838.8	5990	6	1893.4
5924	6	1785.3	5958	6	1840.4	5991	6	1895.0
5925	6	1787.0	5959	6	1842.1	5992	6	1896.7
5926	6	1788.6	l	_		5993	6	1898.4
5927	6	1790.2	5960	6	1843.7	5994	6	1900.0
5928	6	1791.8	5961	6	1845.3	5995	6	1901.7
5929	6	1793.4	5962	6	1847.0	5996	6	1903.4
F000			5963	6	1848.6	5997	6	1905.0
5930	6	1795.0	5964	6	1850.3	5998	6	1906.7
5931	6	1796.6	5965	6	1852.0	5999	6	1908.3
5932	6	1798.3	5966	6	1853.6			4040.5
5933	6	1799.9	5967	6	1855.3	6000	6	1910.0
			<u> 1</u>			L		

Use check point at 6000 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

Frequency: 6000-6100 Kc										
Freq.	Α	В	Freq.	A	В	Freq.	A	В		
6000	7	100.1	6034	7	142.0	6068	7	183.8		
6001	7	101.4	6035	7	143.3	6069	7	185.0		
6002	7	102.6	6036	7	144.5					
6003	7	103.8	6037	7	145.7	6070	7	186.2		
6004	7	105.1	6038	7	147.0	6071	7	187.4		
6005	7	106.3	6039	7	148.2	6072	7	188.7		
6006	7	107.5				6073	7	189.9		
6007	7	108.8	6040	7	149.4	6074	7	191.1		
6008	7	110.0	6041	7	150.6	6075	7	192.3		
6009	7	111.2	6042	7	151.9	6076	7	193.6		
			6043	7	153.1	6077	7	194.8		
6010	7	112.5	6044	7	154.3	6078	7	196.0		
6011	7	113.7	6045	7	155.5	6079	7	197.2		
6012	7	114,9	6046	7	156.8					
6013	7	116.2	6047	7	158.0	6080	7	198.5		
6014	7	117.4	6048	7	159.2	6081	7	199.7		
6015	7	118.6	6049	7	160.5	6082	7	200.9		
6016	7	119.9				6083	7	202.		
6017	7	121.1	6050	7	161.7	6084	7	203.3		
6018	7	122.3	60°1	7	162.9	6085	7	204.0		
6019	7	123.6	6052	7	164.1	6086	7	205.		
			6053	7	165.4	6087	7	207.0		
6020	7	124.8	6054	7	166.6	6088	7	208.		
6021	7	126.0	6055	7	167.8	6089	7	209.		
6022	7	127.3	6056	7	169.1					
6023	7	128.5	6057	7	170.3	6090	7	210.		
6024	7	129.7	6058	7	171.5	6091	7	211.5		
6025	7	131.0	6059	7	172.7	6092	7	213.		
6026	7	132.2	l			6093	7	214.4		
6027	7	133.4	6060	7	174.0	6094	7	215.		
6028	7	134.7	6061	7	175.2	6095	7	216.		
6029	7	135.9	6062	7	176.4	6096	7	218.		
			6063	7	177.6	6097	7	219.		
6030	7	137.1	6064	7	178.9	6098	7	220.		
6031	7	138.4	6065	7	180.1	6099	7	221.		
6032	7	139.6	6066	7	181.3	1				
6033	7	140.8	6067	7	182.5	6100	7	222.9		

Frequency: 6200-6300 Kc

Freq.	Α	В	Freq.	A	В	Freq.	A	В
6200	7	345.8	6234	7	387.7	6268	7	429.9
6201	7	347.1	6235	7	388.9	6269	7	431.1
6202	7	348.3	6236	7	390.1	****	•	
6203	7	349.5	6237	7	391.4	6270	7	432.3
6204	7	350.8	6238	7	392.6	6271	7	433.6
6205	7	352.0	6239	7	393.8	6272	7	434.8
6206	7	353.2				6273	7	436.1
6207	7	354.4	6240	7	395 1	6274	7	437.3
6208	7	355.7	6241	7	396.3	6275	7	438.5
6209	7	356.9	6242	7	397.5	6276	7	439.8
			6243	7	398.8	6277	7	441.0
6210	7	358.1	6244	7	400.0	6278	7	442.3
6211	7	359.4	6245	7	401.3	6279	7	443.5
6212	7	360.6	6246	7	402.5			
6213	7	361.8	6247	7	403.8	6280	7	444.8
6214	7	363.1	6248	7	405.0	6281	7	446.0
6215	7	364.3	6249	7	406.2	6282	7	447.2
6216	7	365.5				6283	7	448.5
6217	7	366.8	6250	7	407.5	6284	7	449.7
6218	7	368.0	6251	7	408.7	6285	7	451.0
6219	7	369.2	6262	7	410.0	6286	7	452.2
			6253	7	411.2	6287	7	453.4
6220	7	370.4	6254	7	412.5	6288	7	454.7
6221	7	371.7	6255	7	413.7	6289	7	455.9
6222	7	372.9	6256	7	414.9	1		
6223	7	374.1	6257	7	416.2	6290	7	457.2
6224	7	375.4	6258	7	417.4	6291	7	458.4
6225	7	376.6	6259	7	418.7	6292	7	459.6
6226	7	377.8	l			6293	7	460.9
6227	7	379.1	6260	7	419.9	6294	7	462.
5228	7	380.3	6261	7	421.2	6295	7	463.4
6229	7	381.5	6262	7	422.4	6296	7	464.
			6263	7	423.6	6297	7	465.9
6230	7	382.8	6264	7	424.9	6298	7	467.
6231	7	384.0	6265	7	426.1	6299	7	468.
6232	7	385.2	6266	7	427.4	i		
6233	7	386.4	6267	7	428.6	6300	7	469.

Use shock point at 6000 Kg

Use check point at 6300 Kc

E	4100	4200	v.
Frequency:	0100-	-0200	Κ¢

Freq.	A	B	Freq.	A	В	Freq.	A	В
6100	7	222.9	6134	7	264.6	6168	7	306.5
6101	7	224.2	6135	7	265.9	6169	7	307.7
6102	7	225.4	6136	7	267.1			
6103	7	226.6	6137	7	268.3	6170	7	308.9
6104	7	227.8	6138	7	269.6	6171	7	310.2
6105	7	229.1	6139	7	270.8	6172	7	311.4
6106	7	230.3	i			6173	7	312.6
6107	7	231.5	6140	7	272.0	6174	7	313.8
6108	7	232.7	6141	7	273.2	6175	7	315.1
6109	7	234.0	6142	7	274.5	6176	7	316.3
			6143	7	275.7	6177	7	317.5
6110	7	235.2	6144	7	276.9	6178	7	318.8
6111	7	236.4	6145	7	278.2	6179	7	320.0
6112	7	237.6	6146	7	279.4			
6113	7	238.9	6147	7	280.6	6180	7	321.2
6114	7	240.1	6148	7	281.8	6181	7	322.5
6115	7	241.3	6149	7	283.1	6182	7	323.7
6116	7	242.5				6183	7	324.9
6117	7	243.8	6150	7	284.3	6184	7	326.2
6118	7	245.0	6151	7	285.5	6185	7	327.4
6119	7	246.2	6152	7	286.8	6186	7	328.6
			6153	7	288.0	6187	7	329.8
6120	7	247.4	6154	7	289 .2	6188	7	331.1
6121	7	248.7	6155	7	290.5	6189	7	332.3
6122	7	249.9	6156	7	291.7	1		
6123	7	251.1	6157	7	292.9	6190	7	333.5
6124	7	252.4	6158	7	294.2	6191	7	334.8
6125	7	253.6	6159	7	295.4	6192	7	336.0
6126	7	254.8	l			6193	7	337.2
6127	7	256.0	6160	7	296.6	6194	7	338.5
6128	7	257.3	6161	7	297.8		7	339.7
6129	7	258.5	6162	7	299.1	6196	7	340.9
			6163	7	300.3		7	342.1
6130	7	259.7	6164	7	301.5		7	343.4
6131	7	261.0	6165	7	302.8		7	344.6
6132	7		6166	7	304.0			
6133	7	263.4	6167	7	305.2	6200	7	345.8
			1			i		_

Use check point at 4000 or 4300 Kr, whichever is mourer

Frequency: 6300-6400 Kc

Freq.	A	В	Freq.	A	В	Freq.	A	В
6300	7	469.6	6334	7	511.7	6368	7	554.1
6301	7	470.8	6335	7	513.0	6369	7	555.3
6302	7	472.0	6336	7	514.2			
6303	7	473.3	6337	7	515.4	6370	7	556.6
6304	7	474.5	6338	7	516.7	6371	7	557.8
6305	7	475.8	6339	7	517.9	6372	7	559.0
6306	7	477.0	ł			6373	7	560.3
6307	7	478.2	6340	7	519.2	6374	7	561.5
0306	7	479.5	6341	7	520.4	6375	7	562.8
6309	7	480.7	6342	7	521.7	5376	7	564.0
			6343	7	522.9	6377	7	565.3
6310	7	482.0	6344	7	524.2	6378	7	566.5
6311	7	483.2	6345	7	525.4	6379	7	567.7
6312	7	484.4	6346	7	526.7	1		
6313	7	485.7	6347	7	527.9	6380	7	569.0
6314	7	486.9	6348	7	529.2	6381	7	570.2
6315	7	488.1	6349	7	530.4	6382	7	571.5
6316	7	489.4	ļ			6383	7	572.7
6317	7	490.6	6350	7	531.7	6384	7	574.0
6318	7	491.9	6351	7	532.9	.6385	7	575.2
6319	7	493.1	6352	7	534.2	6386	7	576.4
			6353	7	535.4	6387	7	577.7
6320	7	494.3	6354	7	536.6	6388	7	578.9
6321	7	495.6	6355	7	537.9	6389	7	580.2
6322	7	496.8	6356	7	539.1	ì		
6323	7	498.1	6357	7	540.4	5390	7	581.4
6324	7	499.3	6358	7	541.6	6391	7	582.7
6325	7	500.5	6359	7	542.9	6392	7	583.9
6326	7	501.8				6393	7	585.2
6327	7	503.0		7	544.1	6394	7	586.4
6328	7	504.2	6361	7	545.4	6395	7	587.7
6329	7	505.5	6362	7	546.6		7	588.9
			6363	7	547.9		7	590.1
6330	7	506.7	6364	7	549.1	6398	7	591.4
6331	7	508.0	6365	7	550.3		7	592.6
6332	7	509.2		7	551.6			
6333	7	510.5	6367	7	552.8	6400	7	5 9 3.9
			1			1		

Use check point at 6300 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER
T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT

IS USED. (Continued)
Frequency: 6400-6500 Kc

		rrequ	ency:	040	10- 6 50	~ ~ ~ ~		
Freq.	Α	В	Freq.	A	В	Freq.	Α	В
6400	7	593.9	6434	7	636.3	6468	7	678.6
6401	7	595.1	6435	7	637.5	6469	7	679.9
6402	7	596.4	6436	7	638.8			
6403	7	597.6	6437	7	640.0	6470	7	681.1
6404	7	598.9	6438	7	641.3	6471	7	682.4
6405	7	600.1	6439	7	642.5	6472	7	683.6
6406	7	601.4	l			6473	7	684.9
6407	7	602.6	6440	7	643.8	6474	7	686.1
6408	7	603.9	6441	7	645.0	6475	7	687.4
6409	7	605.1	6442	7	646.3	6476	7	688.6
			6443	7	647.5	6477	7	689.8
6410	7	606.4	6444	7	648.8	6478	7	691.1
6411	7	607.6	6445	7	650.D	6479	7	692.3
6412	7	608.9	6446	7	651.2			
6413	7	610.1	6447	7	652.5	6480	7	693.6
6414	7	611.4	6448	7	653.7	6481	7	694.8
6415	7	612.6	6449	7	655.0	6482	7	696.1
6416	7	613.8				6483	7	697.3
6417	7	615.1	6450	7	656.2	6484	7	698.6
6418	7	616.3	6451	7	657.5	6485	7	699.8
6419	7	617.6	6452	7	658.7	6486	7	701.1
			6453	7	660.0	6487	7	702.3
6420	7	618.8	6454	7	661.2	5488	7	703.€
6421	7	620.1	6455	7	662.5	6489	7	704.8
6422	7	621.3	6456	7	663.7	1		
6423	7	622.6	6457	7	665.0		7	706.0
6424	7	623.8	6458	7	666.2	6491	7	707.3
6425	7	625.1	6459	7	667.4	6492	7	708.5
6426	7	626.3	l			6493	7	709.8
6427	7	627.6	6460	7	668.7	6494	7	711.0
6428	7	628.8	6461	7	669.9	6495	7	712.3
6429	7	630.1	6462	7	671.2	6496	7	713.5
			6463	7	672.4	6497	7	714.8
6430	7	631.3	6464	7	673.7	6498	7	716.0
6431	7	632.5	6465	7	674.9	6499	7	717.3
6432	7	633.8	6466	7	676.2			
6433	7	635.0	6467	7	677.4	6500	7	718.

Use check point at 6300 or 6600 Kc, whichever is nearer

Frequency: 6500-6600 Kc

Freq.	A	В	Freq.	A	В	Freq.	A	В
6500	7	718.5	6534	7	671.0	6568	7	803.2
6501	7	719.8	6535	7	762.2	6569	7	804.4
6502	7	721.0	6536	7	763.5	Ì		
6503	7	722.2	6537	7	764.7	6570	7	805.7
6504	7	723.5	6538	7	766.0	6571	7	806.9
6505	7	724.7	6539	7	767.2	6572	7	808.2
6506	7	726.0				6573	7	809.4
6507	7	727.2	6540	7	768.5	6574	7	810.7
6508	7	728.5	6541	7	769.7	6575	7	811.9
6509	7	729.7	6542	7	770.9	6576	7	813.1
			6543	7	772.2	6577	7	814.4
6510	7	731.0	6544	7	773.4	6578	7	815.6
6511	7	732.2	6545	7	774.7	6579	7	816.9
6512	7	733.5	6546	7	775.9			
6513	7	734.7	6547	7	777.1	6580	7	818.1
6514	7	736.0	6548	7	778.4	6581	7	819.4
6515	7	737.2	6549	7	779.6	6582	7	820.6
6516	7	738.5	l			6583	7	821.9
6517	7	739.7	6550	7	780.9	6584	7	823.1
6518	7	741.0	6551	7	782.1	6585	7	B24.3
6519	7	742.2	6552	7	783.3	6586	7	825.6
	_		6553	7	784.6	6587	7	826.8
6520	7	743.5	6554	7	785.8	6588	7	828.1
6521	7	744.7	6555	7	787.1	6589	7	829.3
6522	7	746.0	6556	7	788.3		_	000.0
6523	7	747.2	6557	7	789.6	6590	7	830.6
6524	7	748.5	6558	7	790.8	6591	7	831.8 833.0
6525	7	749.7	6559	7	792.0	6592	7	833.0 834.3
6526	7	751.0		_	300 3	6593	7	
6527	7	752.2	6560	7	793.3	6594	7	835.5
6528	7	753.5	6561	7	794.5	6595	7	836.8
6529	7	754.7	6562 6563	7	795.8	6596 6597	7 7	838.0 839.3
6530	7	756.0	6564	7	797.0 798.2	6598	7	839.3 840.5
6531	7	757.2	6565	7	799.5	6599	7	841.8
6532	7	757.2 758.5	6566	7	799.5 800.7	0399	1	0.110
				7			7	843.0
6533	7	759.7	6567	-	802.0	6600	-	843.0

Use check point at 6600 Kc

Frequency: 6600-6700 Kc

Freq.	Α	В	Freq.	A	В	Freq.	A	В
6600	7	843.0	6634	7	885.1	6668	7	927.1
6601	7	844.2	6635	7	886.3	6669	7	928.4
6602	7	845.4	6636	7	887.5	1		
6603	7	846.7	6637	7	888.8	6670	7	929.6
6604	7	847.9	6638	7	890.0	6671	7	930.8
6605	7	849.2	6639	7	891.3	6672	7	932.1
6606	7	850.4	l .			6673	7	933.3
6607	7	851.7	6640	7	892.5	6674	7	934.6
6608	7	852.9	6641	7	893.7	6675	7	935.8
6609	7	854.1	6642	7	895.0	6676	7	937.0
			6643	7	896.2	6677	7	938.3
6610	7	855.4	6644	7	897.4	6678	7	939.5
6611	7	856.6	6645	7	898.7	6679	7	940.7
6612	7	857.8	6646	7	899.9		_	
6613	7	859.1	6647	7	901.2	6680	7	942.0
5614	7	860.3	6648	7	902.4	6681	7	943.2
6615	7	861.6	6649	7	903.6	6682	7	944.4
6616	7	862.8	l			6683	7	945.7
6617	7	864.0	6650	7	904.9	6684	7	946.9
6618	7	865.3	6651	7	906.1	6685	7	948.2
6619	7	866.5	6652	7	907.3	6686	7	949.4
4	_	4.0	6653	7	908.6	6687	7	950.6
5620	7	867.7	6654	7	909.8	6688	7	951.9
6621	7	869.0	6655	7	911.1	6689	7	953.1
6622	7	870.2	6656	7	912.3			
6623	7	871.5	6657	7	913.5	6690	7	954.3
6624	7	872.7	6658	7	914.8	6691	7	955.6
6625	7	873.9	6659	7	916.0	6692	7	956.8
6626	7	875.2	1			6693	7	958.0
6627	7	876.4	6660	7	917.2	6694	7	959.3
6628	7	877.6	6661	7	918.5	6695	7	960.5
6629	7	878.9	6662	7	919.7	6696	7	961.7
		_	6663	7	921.0	6697	7	963.0
6630	7	880.1	6664	7	922.2	6698	7	964.2
6631	7	881.4	6665	7	923.4	6699	7	965.4
6632	7	882.6	6666	7	924.7	1		
6633	7	883.8	6667	7	925.9	6700	7	966.6
				—		——		

Use check point at 6600 Kc

Frequency: 6700-6800 Kc

Freq.	Α	В	Freq.	Α	B	Freq.	Α	В
6700	7	966.6	6734	7	1008.5	6768	7	1050.5
6701	7	967.9	6735	7	1009.8	6769	7	1051.7
6702	7	969.1	6736	7	1011.0	i		
6703	7	970.3	6737	7	1012.2	6770	7	1052.9
6704	7	971.6	6738	7	1013.5	6771	7	1054.2
6705	7	972.8	6739	7	1014.7	6772	7	1055.4
6706	7	974.0				6773	7	1056.6
6707	7	975.3	6740	7	1015.9	6774	7	1057.9
6708	7	976.5	6741	7	1017.2	6776	7	1059.1
6709	7	977.7	6742	7	1018.4	6776	7	1060.3
			6743	7	1019.6	6777	7	1061.6
6710	7	978.9	6744	7	1020.9	6778	7	1062.8
6711	7	980.2	6745	7	1022.1	6779	7	1064.0
6712	7	981.4	6746	7	1023.3	l		
6713	7	982.6	6747	7	1024.6	6780	7	1065.3
6714	7	983.9	6748	7	1025.8	6781	7	1066.5
6715	7	985.1	6749	7	1027.0	6782	7	1067.7
6716	7	986.3				6783	7	1068.9
6717	7	987.6	6750	7	1028.3	6784	7	1070.1
6718	7	988.8	6751	7	1029.5	6785	7	1071.4
6719	7	990.0	6752	7	1030.7	6786	7	1072.6
			6753	7	1032.0	6787	7	1073.8
6720	7	991.2	6754	7	1033.2	6788	7	1075.0
6721	7	992.5	6755	7	1034.4	6789	7	1076.3
6722	7	993.7	6756	7	1035.7			
6723	7	994.9	6757	7	1036.9	6790	7	1077.5
6724	7	996.2	6758	7	1038.1	6791	7	1078.7
6725	7	997.4	6759	7	1039.4	6792	7	1079.9
6726	7	998.6				6793	7	1081.1
6727	7	999.9	6760	7	1040.6	6794	7	1082.4
6728	7	1001.1	6761	7	1041.8	6795	7	1083.6
6729	7	1002.3	6762	7	1043.1	6796	7	1084.8
			6763	7	1044.3	6797	7	1086.0
6730	7	1003.6	6764	7	1045.5	6798	7	1087.3
6731	7	1004.8	6765	7	1046.8	6799	7	1088.5
6732	7	1006.0	6766	7	1048.0	1		
6733	7	1007.3	6767	7	1049.2	6800	7	1089.7
			<u> </u>					

Use check point at 6600 or 6900 Kc, whichever is nearer

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

					. ,		•	ш,							
		Frequ	ency:	68	00-69	00 Kc					Frequ	ency:	700	00-710	10 Kc
Freq.	A	В	Freq.	A	В	Freq.	A	В	Freq.	Α	В	Freq.	Α	В	Freq.
6800	7	1089.7	6834	7	1131.3	6868	7	1172.8	7000	7	1333.7	7034	7	1375.2	7068
6801	7	1090.9	6835	7	1132.5	6869	7	1174.0	7001	7	1334.9	7035	7	1376.4	7069
6802	7	1092.1	6836	7	1133.7	ì			7002	, 7	1336.2	7036	7	1377.6	l
6803	7	1093.4	6837	7	1134.9	6870	7	1175.2	7003	7	1337.4	7037	7	1376.6	7070
6804	7	1094.6	6838	7	1136.2	6871	7	1176.4	7004	7	1338.6	7038	7	1380.0	7071
6805	7	1095.8	6839	7	1137.4	6872	7	1177.7	7005	7	1339.8	7039	7	1381.2	7072
6806	7	1097.0	1			6873	7	1178.9	7006	7	1341 0	ŀ			7073
6807	7	1098.2	6840	7	1138.6	6874	7	1180.1	7007	7	1342.3	7040	7	1382.5	7074
6808	7	1099.5	6841	7	1139.8	6875	7	1181.3	7008	7	1343.5	7041	7	1383.7	7075
6809	7	1100.7	6842	7	1141.1	6876	7	1182.5	7009	7	1344.7	7042	7	1384.9	7076
			6843	7	1142.3	6877	7	1183.8				7043	7	1386.1	7077
6810	7	1101.9	6844	7	1143.5	6878	7	1185.0	7010	7	1345.9	7044	7	1387.3	7078
6811	7	1103.1	6845	7	1144.7	6879	7	1186.2	7011	7	1347.1	7045	7	1388.6	7079
6812	7	1104.4	6846	7	1145.9				7012	7	1348.4	7046	7	1389.8	l
6813	7	1105.6	6847	7	1147.2	6880	7	1187.4	7013	7	1349.6	7047	7	1391.0	7080
6814	7	1106.8	6848	7	1148.4	6881	7	1188.6	7014	7	1350.8	7048	7	1392.2	7081
6815	7	1108.0	6849	7	1149.6	6882	7	1189.9	7015	7	1352.0	7049	7	1393.4	7082
6816	7	1109.3				6883	7	1191.1	7016	7	1353.2				7083
6817	7	1110.5	6850	7	1150.8	6884	7	1192.3	7017	7	1354.5	7050	7	1394.6	7084
6818	7	1111.7	6851	7	1152.0	6885	7	1193.5	7018	7	1355.7	7051	7	1395.9	7085
6819	7	1112.9	6852	7	1153.3	6886	7	1194.7	7019	7	1356.9	7052	7	1397.1	7086
			6853	7	1154.5	6887	7	1195.9				7053	7	1398.3	7087
6820	7	1114.1	6854	7	1155.7	6888	7	1197.2	7020	7	1358.1	7054	7	1399.5	7088
6821	7	1115.4	6855	7	1156.9	6889	7	1198.4	7021	7	1359.3	7055	7	1400.8	7089
6822	7	1116.6	6856	7	1158.1	1			7022	7	1360.6	7056	7	1402.0	(
6823	7	1117.8	6857	7	1159.4	6890	7	1199.5	7023	7	1361.8	7057	7	1403.2	7090
6824	7	1119.0	6858	7	1160.6	6891	7	1200.8	7024	7	1363.0	7058	7	1404.4	7091
6825	7	1120.3	6859	7	1161.8	6892	7	1202.0	7025	7	1364.2	7059	7	1405.7	7092
6826	7	1121.5	İ			6893	7	1203.3	7026	7	1365.4	l			7093
6827	7	1122.7	6860	7	1163.0	6894	7	1204.5	7027	7	1366.6	7060	7	1406.9	7094
6828	7	1123.9	6861	7	1164.2	6895	7	1205.7	7028	7	1367.9	7061	7	1408.1	7095
6829	7	1125.2	6862	7	1165.5	6896	7	1206.9	7029	7	1369.1	7062	7	1409.3	7096
			6863	7	1166.7	6897	7	1208.1				7063	7	1410.6	7097
6830	7	1126.4	6864	7	1167.9	6898	7	1209.3	7030	7	1370.3	7064	7	1411.8	7098
6831	7	1127.6	5865	7	1169.1	6899	7	1210.6	7031	7	1371.5	7065	7	1413.0	7099
6832	7	1128.8	6866	7	1170.3	1			7032	7	1372.7	7066	7	1414.2	
6833	7	1130.0	6867	7	1171.6	6900	7	1211.8	7033	7	1373.9	7067	7	1415.4	7100
	•		1			1						1			1

Use check point at 6900 Kc

Use check paint at \$900 or 7200 Kc, whichever is nearer

Frequency:	6900-7000	Kc
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Freq.	A	В	Freq.	A		Freq.	A	В
6900	7	1211.8	6934	7	1253.2	6968	7	1294.6
6901	7	1213.0	6935	7	1254.4	6969	7	1295.8
6902	7	1214.2	6936	7	1255.6	l		
6903	7	1215.4	6937	7	1256.8	6970	7	1297.1
6904	7	1216.6	6938	7	1258.0	6971	7	1298.3
6905	7	1217.9	6939	7	1259.3	6972	7	1299.5
6906	7	1219.1				6973	7	1300.7
6907	7	1220.3	6940	7	1260.5	6974	7	1302.0
6908	7	1221.5	6941	7	1261.7	6975	7	1303.2
6909	7	1222.7	6942	7	1262.9	6976	7	1304.4
			6943	7	1264.1	6977	7	1305.6
6910	7	1224.0	6944	7	1265.4	6978	7	1306.8
6911	7	1225.2	6945	7	1266.6	6979	7	1308.1
6912	7	1226.4	6946	7	1267.8	l		
6913	7	1227.6	6947	7	1269.0	6980	7	1309.3
6914	7	1228.8	6948	7	1270.2	6981	7	1310.5
6915	7	1230.0	6949	7	1271.4	6982	7	1311.7
6916	7	1231.3	1			6983	7	1313.0
6917	7	1232.5	6950	7	1272.7	6984	7	1314.2
6918	7	1233.7	6951	7	1273.9	6985	7	1315.4
6919	7	1234.9	6952	7	1275.1	6986	7	1316.6
			6953	7	1276.3	6987	7	1317.9
6920	7	1236.1	6954	7	1277.5	6988	7	1319.1
6921	7	1207.3	6955	7	1278.8	6989	7	1320.3
6922	7	1238.6	6956	7	1280.0	1		
6923	7	1239.8	6957	7	1281.2	6990	7	1321.5
6924	7	1241.0	6958	7	1282.4	6991	7	1322.7
6925	7	1242.2	6959	7	1283.6	6992	7	1324.0
6926	7	1243.4	1			6993	7	1325.2
6927	7	1244.6	6960	7	1284.8	6994	7	1326.4
6928	7	1245.9	6961	7	1286.1	6995	7	1327.6
6929	7	1247.1	6962	7	1287.3	6996	7	1328.8
			6963	7	1288.5	6997	7	1330.1
6930	7	1248.3	6964	7	1289.7	6998	7	1331.3
6931	7	1249.5	6965	7	1291.0	6999	7	1332.5
6932	7	1250.7	6966	7	1292.2	1		
6933	7	1252.0	6967	7	1293.4	7000	7	1333.7
	•		i			1		

Use theck point at \$900 Kc

Frequency: 7100-7200 Kc

Freq. A B 7068 7 1416.7 7069 7 1417.9

1419.1

1419.1 1420.3 1421.6 1422.8 1424.0 1425.2 1426.5 1427.7

1428.9 1430.1

1431.4

1432.6 1433.8 1435.0

1436.2

1437.4 1438.7 1439.9

1441.1 1442.3

1443.5 1444.7 1446.0 1447.2 1448.4

1449.5 1450.8

1452.0 1453.3

7100 7 1455.7

Freq.	A	B	Frey.	Α	B	Freq.	Α	B
7100	7	1455.7	7134	7	1497.4	7168	7	1539.3
7101	7	1456.9	7135	7	1498.7	7169	7	1540.5
7102	7	1458.1	7136	7	1499.9	l		
7103	7	1459.3	7137	7	1501.1	7170	7	1541.7
7104	7	1460.6	7138	7	1502.4	7171	7	1543.0
7105	7	1461.8	7139	7	1503.6	7172	7	1544.2
7106	7	1463.0				7173	7	1545.4
7107	7	1464.2	7140	7	1504.8	7174	7	1546.7
7108	7	1465.4	7141	7	1506.1	7175	7	1547.9
7109	7	1466.6	7142	7	1507.3	7176	7	1549.1
			7143	7	1508.5	7177	7	1550.4
7110	7	1467.9	7144	7	1509.8	7178	7	1551.6
7111	7	1469.1	7145	7	1511.0	7179	7	1552.9
7112	7	1470.3	7146	7	1512.2			
7113	7	1471.6	7147	7	1513.4	7180	7	1554.1
7114	7	1472.8	7148	٠,7	1514.7	7181	7	1555.3
7115	7	1474.0	7149	7	1515.9	7182	7	1556.6
7116	7	1475.3				7183	7	1557.8
7117	7	1476.5	7150	7	1517.1	7184	7	1559.1
711B	7	1477.7	7151	7	1518.4	7185	7	1560.3
7119	7	1479.0	7152	7	1519.6	7186	7	1561.5
			7153	7	1520.8	7187	7	1562.8
7120	7	1480.2	7154	7	1522.1	7188	7	1564.0
7121	7	1481.4	7155	7	1523.3	7189	7	1565.2
7122	7	1482.7	7156	7	1524.5	í		
7123	7	1483.9	7157	7	1525.7	7190	7	1566.5
7124	7	1485.1	7158	7	1527.0	7191	7	1567.7
7125	7	1486.4	7159	7	1528.2	7192	7	1569.0
7126	7	1487.6	i .			7193	7	1570.2
7127	7	1488.8	7160	7	1529.4	7194	7	1571.4
7128	7	1490.0	7161	7	1530.7	7195	7	1572.7
7129	7	1491.3	7162	7	1531.9	7196	7	1573.9
			7163	7	1533.1	7197	7	1575.1
7130	7	1492.5	7164	7	1534.3	7198	7	1576.4
7131	7	1493.7	7165	7	1535.6	7199	7	1577.6
7132	7	1495.0	7166	7	1536.8	1		
7133	7	1496.2	7167	7	1538.0	7200	7	1578.9
			<u></u>			<u> </u>		

Use check point at 7200 Kc

B 332.4 333.5

8 334.5 8 335.5 8 336.5 8 337.5 8 338.6 8 340.6 8 341.6 8 342.7 8 343.7

344.7 345.7 346.8 347.8 348.8 350.8 351.9 352.9 353.9

> 354.9 356.0 357.0 358.0 359.0 360.0 361.1 362.1 363.1 364.1

8 365.2

AN 08-30 ART 13-3

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

		Frequ	ency:	720	0-730	00 Kc					frequ	ency:	740	750-750	00 Kc
req.	Ā	В	Freq.	A	В	Freq.	A	В	Freq.	A	В	Freq.	A	В	Freq.
7200	8	60.0	7234	В	94.7	7268	В	129.5	7400	8	263.3	7434	В	297.8	7468
7201	8	61.0	7235	8	95.8	7269	8	130.5	7401	8	264.3	7435	8	298.8	7469
7202	8	62.0	7236	8	96.8	i			7402	8	265.4	7436	8	299.8	
7203	8	63.1	7237	В	97.8	7270	8	131.5	7403	8	266.4	7437	8	300.9	7470
7204	8	64.1	7238	8	98.8	7271	8	132.5	7404	8	267.4	7438	8	301.9	7471
7205	8	65.1	7239	8	99.9	7272	8	133.5	7405	8	268.4	7439	8	302.9	7472
7206	8	66.1				7273	8	134.5	7406	8	269.4				7473
7207	8	67.2	7240	8	100.9	7274	8	135.6	7407	8	270.4	7440	8	303.9	7474
7208	8	68.2	7241	8	101.9	7275	8	136.6	7408	8	271.5	7441	8	304.9	7475
7209	8	69.2	7242	8	102.9	7276	8	137.6	7409	8	272.5	7442	8	305.9	7476
			7243	8	103.9	7277	8	138.6				7443	8	307.0	7477
7210	8	70.2	7244	8	105.0	7278	8	139.6	7410	8	273.5	7444	8	308.0	7478
7211	8	71.2	7245	8	105.0	7279	8	140.6	7411	8	274.5	7445	8	309.0	7479
7212	В	72.3	7246	8	107.0	l			7412	8	275.5	7446	8	310.0	1
7213	8	73.3	7247	8	108.0	7280	8	141.7	7413	8	276.5	7447	8	311.0	7480
7214	8	74.3	7248	8	109.1	7281	8	142.7	7414	8	277.6	7448	8	312.1	7481
7215	8	75.3	7249	8	110.1	7282	8	143.7	7415	8	278.6	7449	8	313.1	7482
7216	8	76.4	1			7283	8	144.7	7416	8	279.6	1			7483
7217	8	77.4	7250	8	111.1	7284	8	145.7	7417	8	280.6	7450	8	314.1	7484
7218	8	78.4	7251	8	112.1	7285	8	146.7	7418	8	281.6	7451	8	315.1	7485
7219	8	79.4	7252	8	113.1	7286	8	147.8	7419	8	282.6	7452	8	316.1	7486
,	•		7253	8	114.2	7287	8	148.8				7453	8	317.2	7487
7220	8	BO.4	7254	8	115.2	7288	8	149.8	7420	8	283.6	7454	8	318.2	7488
7221	8	81.5	7255	8	116.2	7289	8	150.8	7421	8	284.6	7455	8	319.2	7489
7222	8	82.5	7256	8	117.2	1			7422	8	285.7	7456	8	320.2	1
7223	ě	83.5	7257	8	118.3	7290	8	151.8	7423	8	286.7	7457	8	321.2	7490
7224	8	B4.5	7258	8	119.3	7291	8	152.8	7424	8	287.7	7458	8	322.2	7491
7225	8	85.6		6	120.3	7292	8	153.8	7425	8	288.7	7459	8	323.3	7492
7226	8	86.6		•		7293	8	154.9	7426	8	289.7				7493
7227	В	87.6		8	121.3	7294	8	155.9	7427	8	290.7	7460	8	324.3	7494
7228	8	88.6		8	122.3	7295	8	156.9	7428	8	291.7	7461	8	325.3	7495
7229	8	89.6		8	123.4	7296	8	157.9	7429	8	292.8	7462	8	326.3	7496
	-		7263	8	124.4	7297	8	158.9				7463	8	327.3	7497
7230	8	90.7		8	125.4	7298	8	159.9	7430	8	293.8	7464	8	328.4	7498
7231	8	91.7			126.4	7299	В	160.9	7431	8	294.8	7465	8	329.4	7499
7232	8	92.7			127.4				7432	8	295.8	7466	8	330.4	1
7233	8	93.7		8	128.4		8	161.9	7433	8	296.8	7467	8	331.4	7500

Use check point at 7200 Kc

Use check point at 7500 Kc

_							
Α	В	Freq.	A	В	Freq.	A	В
8	161.9	7334	8	196.4	7368	В	230.8
8	163.0	7335	8	197.4	7369	8	231.8
8	164.0	7336	В	198.4			
8	165.0	7337	₿	199.4	7370	8	232.8
8	166.0	7338	8	200.4	7371	8	233.9
8	167.0	7339	8	201.4	7372	8	234.9
8	168.0				7373	8	235.9
8	169.0	7340	8	202.5	7374	8	236.9
8	170.0	7341	8	203.5	7375	8	237.9
8	171.0	7342	8	204.5	7376	8	238.9
		7343	8	205.5	7377	8	239.9
8	172.1	7344	8	206.5	7378	8	240.9
8	173.1	7345	8	207.5	7379	8	241.9
8	174.1	7346	8	208.5			
8	175.1	7347	8	209.6	7380	8	243.0
8	176.1	7348	8	210.6	7381	8	244.0
8	177.1	7349	8	211.6	7382	8	245.0
8	178.1				7383	8	246.0
8	179.1	7350	8	212.6	7384	8	247.0
8	180.2	7351	8	213.6	7385	8	248.1
8	181.2	7352	8	214.6	7386	8	249.1
		7353	8	215.6	7387	8	250.1
8	182.2	7354	8	216.6	7388	8	251.1
8	183.2	7355	8	217.7	7389	8	252.1
8	184.2	7356	8	218.7	Į.		
8	185.2	7357	8	219.7	7390	8	253.1
В	186.2	7358	8	220.7	7391	8	254.2
В	187.3	7359	8	221.7	7392	8	255.2
8	188.3				7393	8	256.2
8	189.3	7360	8	222.7	7394	8	257.2
8	190.3	7361	8	223.7	7395	8	258.2
8	191.3	7362	8	224.7	7396	8	259.2
		7363	8	225.8	7397	8	260.3
8	192.3	7364	8	226.8	7398	8	261.3
8	193.3	7365	8	227.8	7399	8	262.3
8	194.3	7366	8	228.8	1		
8	195.4	7367	8	229.8	7400	8	263.3
	888888888888888888888888888888888888888	8 161.9 8 163.0 8 164.0 8 165.0 8 166.0 8 167.0 8 169.0 6 177.0 8 1771.1 8 173.1 8 175.1 8 176.1 8 176.1 8 179.1 8 181.2 8 183.2 8 184.2 8 185.2 8 186.2 8 185.2 8 186.2 8 187.3 8 190.3 8 190.3 8 191.3	8 161.9 7334 8 163.0 7336 8 164.0 7337 8 166.0 7338 8 166.0 7338 8 168.0 8 169.0 7340 8 177.0 7342 7343 7344 8 177.1 7345 8 177.1 7346 8 175.1 7347 8 176.1 7347 8 176.1 7348 8 177.1 7347 8 176.1 7349 8 178.1 7352 8 181.2 7353 8 181.2 7353 8 182.2 7355 8 184.2 7355 8 184.2 7355 8 184.2 7356 8 185.2 7357 8 186.2 7358 8 187.3 7359 8 188.3 7359 8 189.3 7360 8 190.3 7361 8 190.3 7363	8 161.9 7334 8 163.0 7335 8 163.0 7337 8 166.0 7338 8 167.0 7339 8 167.0 7340 8 170.0 7341 8 170.0 7341 8 170.0 7342 8 173.1 7346 8 175.1 7347 8 175.1 7345 8 175.1 7350 8 185.2 7355 8 185.2 7355 8 185.2 7355 8 185.2 7355 8 185.2 7356 8 185.2 7356 8 185.2 7356 8 185.2 7356 8 185.3 7360 8 190.3 7360 8 190.3 7360 8 190.3 7361 8 190.3 7366 8 193.3 7365 8 193.3 7365 8 193.3 7365 8 193.3 7365 8	8 161.9 7334 8 196.4 8 163.0 7335 8 197.4 8 166.0 7337 8 199.4 8 166.0 7338 8 200.4 8 166.0 7339 8 201.4 8 167.0 73310 8 201.5 8 170.0 7341 8 202.5 8 172.1 7344 8 205.5 8 172.1 7344 8 205.5 8 173.1 7344 8 205.5 8 175.1 7347 8 206.5 8 176.1 7348 8 205.5 8 176.1 7348 8 206.5 8 176.1 7348 8 206.5 8 177.1 7349 8 211.6 8 179.1 7350 8 212.6 8 180	8 161.9 7334 8 196.4 7368 8 163.0 7335 8 199.4 7369 8 166.0 7336 8 199.4 7370 8 166.0 7337 8 199.4 7370 8 166.0 7338 8 200.4 7371 8 167.0 7340 8 202.5 7376 8 171.0 7341 8 205.5 7377 8 172.1 7344 8 205.5 7377 8 172.1 7344 8 205.5 7377 8 172.1 7346 8 205.5 7377 8 172.1 7346 8 205.5 7377 8 172.1 7346 8 205.5 7377 8 175.1 7347 8 209.6 7380 8 175.1 7348 8 206.5 7381 </td <td>8 161.9 7334 8 196.4 7368 8 8 163.0 7335 8 197.4 7369 8 8 165.0 7336 8 199.4 7370 8 8 165.0 7338 8 200.4 7371 8 8 166.0 7338 8 200.4 7371 8 8 169.0 7340 8 202.5 7376 8 8 170.0 7341 8 205.5 7377 8 8 172.1 7344 8 205.5 7377 8 8 172.1 7344 8 205.5 7378 8 8 174.1 7346 8 205.5 7378 8 8 174.1 7346 8 205.5 7378 8 8 175.1 7347 8 209.6 7380 8 8 176.1</td>	8 161.9 7334 8 196.4 7368 8 8 163.0 7335 8 197.4 7369 8 8 165.0 7336 8 199.4 7370 8 8 165.0 7338 8 200.4 7371 8 8 166.0 7338 8 200.4 7371 8 8 169.0 7340 8 202.5 7376 8 8 170.0 7341 8 205.5 7377 8 8 172.1 7344 8 205.5 7377 8 8 172.1 7344 8 205.5 7378 8 8 174.1 7346 8 205.5 7378 8 8 174.1 7346 8 205.5 7378 8 8 175.1 7347 8 209.6 7380 8 8 176.1

Use check point at 7200 or 7500 Kc, whichever is nearer

Freq.	A	В	Freq.	A	В	Freq.	A	В
7500	8	365.2	7534	8	399.7	7568	8	434.6
7501	8	366.2	7535	В	400.7	7569	8	435.6
7502	8	367.2	7536	8	401.8	'***	_	
7503	8	368.2	7537	8	402.8	7570	8	436.7
7504	8	369.2	7538	8	403.8	7571	ă	437.7
7505	8	370.2	7539	8	404.8	7572	8	438.7
7506	8	371.3				7573	8	439.8
7507	8	372.3	7540	8	405.9	7574	8	440.8
7508	8	373.3	7541	8	406.9	7575	8	441.8
7509	8	374,3	7542	8	407.9	7576	8	442.8
			7543	В	408.9	7577	8	443.9
7510	8	375.3	7544	В	410.0	7578	8	444.9
7511	8	376.3	7545	В	411.0	7579	8	445.9
7512	8	377.3	7546	8	412.0	1		
7513	8	378.4	7547	8	413.1	7580	8	447.0
7514	8	379.4	7548	8	414.1	7581	8	448.0
7515	8	380.4	7549	В	415.1	7582	8	449.0
7516	8	381.4	i			7583	8	450.0
7517	8	382.4	7550	В	416.1	7584	8	451.1
7518	8	383.4	7551	8	417.2	7585	8	452.1
7519	8	384.5	7552	8	418.2	7586	8	453.1
			7553	8	419.2	7587	8	454.2
7520	8	385.5	7554	8	420.2	7588	8	455.2
7521	В	386.5	7555	8	421.3	7589	8	456.2
7522	В	387.5	7556	8	422.3			
7523	8	388.5	7557	8	423.3	7590	8	457.2
7524	8	389.5	7558	8	424.3	7591	8	458.3
7525	В	390.5	7559	8	425.4	7592	8	459.3
7526	8	391.6	ĺ			7593	8	460.3
7527	8	392.6	7560	8	426.4	7594	В	461.3
7528	8	393.6	7561	8	427.4	7595	8	462.3
7529	8	394.6	7562	8	428.4	7596	8	463.4
		i	7563	8	429.5	7597	8	464.4
7530	8	395.6	7564	8	430.5	7598	8	465.4
7531	8	396.6	7565	8	431.5	7599	8	466.4
7532	8	397.7	7566	8	432.6			
7533	8	398.7	7567	В	433.6	7600	8	467.4

Use check point at 7500 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47'ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

		Frequ	ency:	760	00-77	00 Kc		
Freq.	Α	В	Freq.	A	В	Freq.	A	В
7600	В	467.4	7634	8	502.3	7668	В	637.4
7601	8	468.5	7635	8	503.4	7669	8	538.4
7602	8	469.5	7636	8	504.4	l		
7603	8	470.5	7637	8	505.4	7670	8	539.5
7604	8	471.5	7638	8	506.5	7671	8	540.5
7605	8	472.5	7639	8	507.5	7672	8	541.5
7606	8	473.5				7673	8	542.5
7607	8	474.6	7640	8	508.6	7674	8	543.6
7608	8	475.6	7641	8	509.6	7675	8	544.6
7609	8	476.6	7642	8	510.6	7676	8	545.6
			7643	8	511.7	7677	8	546.6
7610	8	477.6	7644	8	512.7	7678	8	547.7
7611	8	478.6	7645	8	513.7	7679	8	548.7
7612	8	479.7	7646	8	514.8			
7613	8	480.7	7647	8	515.8	7680	8	549.7
7614	8	481.7	7648	8	516.8	7681	8	550.7
7615	8	482 7	7649	8	517.9	7682	8	551.8
7616	8	483.7				7683	8	552.8
7617	8	484.8	7650	8	518.9	7684	8	553.8
7618	8	485.8	7651	8	519.9	7685	8	554.9
7619	8	486.8	7652	8	521.0	7686	8	555.9
	_		7653	8	522.0	7687	8	556.9
7620	8	487.8	7654	8	523.0	7688	8	557.9
7621	8	488.9	7655	8	524.1	7689	8	559.0
7622	B	489.9	7656	8	525.1	1,000	•	303.0
7623	8	490.9	7657	8	526.1	7690	8	560.0
7624	8	492.0	7658	8	527.1	7691	8	561.0
7625	8	493.0	7659	8	528.2	7692	8	562.1
7625	8	494.0	1,339	9	J20.2	7693	8	563.1
7627	8	495.1	7660	8	529.2	7694	8	564.1
7628	8	496.1	7661	8	530.2	7695	8	565.2
7629	8	497.2	7662	8	531.2	7696	8	566.2
1029	D	797.2	7663	8	532.3	7697	8	567.2
7630	8	498.2	7664	8			8	
7631		498.2	7665	8	533.3	7698	8	568.2
7632	8			_	534.3	7699	0	569.3
7632	8	500.3	7666 7667	8	535.3	7700	8	570.3
/033	•	501.3	/667	-6	536.4	7700	4	5/0.3

Use thetk point at 7500 or 7800 Kt, whichever is nearer

Use check point at 7800 Kc

		Frequ	ency:	77(DO-780	00 Kc		
Freq.	A	В	Freq.	A	В	Freq.	A	В
7700	8	570.3	7734	8	605.4	7768	8	640.4
7701	8	571.3	7735	8	606.4	7769	8	641.5
7702	8	572.4	7736	8	607.4			
7703	8	573.4	7737	8	608.5	7770	8	642.5
7704	8	574.4	7738	8	609.5	7771	8	643.5
7705	8	575.4	7739	8	610.5	7772	8	644.6
7706	8	576.5				7773	8	645.6
7707	8	577.5	7740	8	611.6	7774	8	646.6
7708	8	578.5	7741	8	612.6	7775	8	647.7
7709	8	579.6	7742	8	613.6	7776	8	648.7
			7743	8	614.7	7777	8	649.7
7710	8	580.6	7744	8	615.7	7778	8	650.7
7711	8	581.6	7745	8	616.7	7779	8	651.8
7712	8	582.6	7746	8	617.8	Į.		
7713	8	583.7	7747	8	618.8	7780	8	652.8
7714	В	584.7	7748	8	619.8	7781	8	653.8
7715	8	585.7	7749	В	620.9	7782	8	654.9
7716	8	586.8				7783	8	655.9
7717	8	587.8	7750	8	621.9	7784	8	656.9
7718	8	588.8	7751	8	622.9	7785	8	658.0
7719	8	589.9	7752	8	623.9	7786	8	659.0
			7753	8	625.0	7787	8	660.0
7720	8	590.9	7754	8	626.0	7788	8	661.1
7721	8	591.9	7755	8	627.0	7789	8	662.1
7722	8	593.0	7756	8	628.1			
7723	8	594.0	7757	В	629.1	7790	8	663.1
7724	8	595.0	7758	8	630.1	7791	8	664.1
7725	8	596.1	7759	В	631.2	7792	8	665.2
7726	8	597.1				7793	8	666.2
7727	8	598.1	7760	8	632.2	7794	8	667.2
7728	8	599.2	7761	8	633.2	7795	8	668.3
7729	8	600.2	7762	8	634.3	7796	8	669.3
			7763	8	635.3	7797	8	670.3
7730	8	601.2	7764	8	636.3	7798	8	671.4
7731	8	602.3	7765	В	637.3	7799	8	672.4
7732	8	603.3	7766	8	638.4	1		
7733	В	604.3	7767	8	639.4	7800	8	673.4

Use check point at 7800 Kc

Frea.	A	В	Frea.	Ā	В	Freq.		В
7900	8	776.3	7934	8	811.4	7968	8	846.4
7901	8	777.3	7935	8	812.4	7969	8	847.5
7902	8	778.3	7936	8	813.4			
7903	В	779.4	7937	8	814.5	7970	8	848.5
7904	8	780.4	7938	8	815.5	7971	8	849.5
7905	В	781.4	7939	8	816.6	7972	8	850.5
7906	В	782.4				7973	8	851.6
7907	8	783.5	7940	8	817.6	7974	8	852.6
7908	8	784.5	7941	8	818.6	7975	8	853.6
7909	8	785.5	7942	8	819.7	7976	8	854.7
			7943	8	820.7	7977	8	855.7
7910	8	786.6	7944	8	821.7	7978	8	856.7
7911	8	787.6	7945	8	822.8	7979	8	857.7
7912	8	788.6	7946	8	823.8	!		
7913	8	789.7	7947	8	824.9	7980	8	858.8
7914	8	790.7	7948	8	825.9	7981	8	859.8
7915	8	791.7	7949	a	826.9	7982	8	860.8
7916	8	792.7	-			7983	8	861.8
7917	8	793.8	7950	8	828.0	7984	8	862.8
7918	8	794.8	7951	8	829.0	7985	8	863.8
7919	8	795.8	7952	8	830.0	7986	8	864.
			7953	8	831.0	7987	8	865.
7920	8	796.9	7954	8	832.1	7988	8	866.
7921	8	797.9	7955	8	833.1	7989	8	867.
7922	8	798.9	7956	8	834.1			
7923	8	800.0	7957	8	835.1	7990	8	868.
7924	8	801.0	7958	8	836.2	7991	8	869.
7925	8	802.0	7959	8	837.2	7992	8	870.
7926	8	803.1	1			7993	8	871.
7927	8	804.1	7960	8	838.2	7994	8	872.
7928	8	805.2	7961	8	839.3	7995	8	874.
7929	8	806.2	7962	8	840.3	7996	8	875.
			7963	8	841.3	7997	8	876.
7930	8	807.2	7964	8	842.3	7998	8	877.
7931	8	808.3	7965	8	843.4	7999	8	878
7932	8	809.3	7966	8	844.4	1		
7933	8	810.3	7967	8	845.4	8000	8	879.

Use check point at 7800 or 8100 Kc, whichever is neuror

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

	-			-		-	_	
req.	Ā		Freq.	A	В	Freq.	A	В
8000	8	879.0	8034	В	913.8	£068	8	942.6
8001	8	0.088	8035	В	914.9	8069	В	949.6
8002	В	881.0	8036	8	915.9	l	_	
8003	8	882.1	8037	8	916.9	8070	8	950.7
8004	8	883.1	8038	8	918.0	8071	8	951.7
8005	8	884.1	8039	8	919.0	8072	8	952.7
8006	8	885.1				8073	8	953.7
8007	8	886.1	8040	8	920.0	8074	В	954.8
8008	8	887.1	8041	8	921.0	8075	8	955.8
8009	8	888.1	8042	8	922.1	8076	8	956.8
			8043	8	923.1	8077	8	957.8
8010	В	889.1	8044	8	924.1	8078	8	958.8
8011	8	890.2	8045	8	925.1	8079	8	959.9
8012	8	991.2	8046	8	926.1	1		
BC13	8	892.2	8047	8	927.2	8080	8	960.9
B014	8	893.3	8048	8	928.2	8081	8	961.9
8015	8	894.3	8049	8	929.2	8082	8	962.9
8016	8	895.3	l			8083	8	964.0
8017	8	896.3	8050	8	930.2	8084	8	965.0
8018	8	897.4	8051	8	931.3	8085	8	966.0
8019	8	898.4	8052	8	932.3	8086	8	967.0
			8053	8	933.3	8087	8	968.1
8020	8	899.4	8054	8	934.3	8068	В	969.1
8021	8	900.5	8055	8	935.3	8089	8	970.1
8022	8	901.5	8056	8	936.4	-345	-	-10
8023	8	902.5	8057	B	937.4	8090	8	971.1
8024	8	903.6	8058	ě	938.4	8091	8	972.2
8025	8	904.6	8059	В	939.4	8092	8	973.2
8026	8	905.6	1	٠	333.4	8093	8	974.2
8027	8	906.6	8060	8	940.4	8094	8	975.2
8028	8	907.7	8061	8	941.5	8095	8	976.2
8029	8	908.7	8062	8	942.5	8096	8	977.3
W23	9	JJU.7	8063	8	943.5	8097	8	978.3
8030	8	909.7	8064	8	944.5	8098	8	979.3
8031	8	910.8	8065	8	945.6	8099	8	980.3
			8066	8		Lonaa	-	AG0.1
8032 8033	8	911.8 912.8	8067	8	946.6 947.6	8100		981.4

Use check point at \$100 Kc

Frequency: \$100-8200 Kc

Freq. A В В 981.4 8134 982.4 8135 983.4 8136 984.4 8137 **8100** 8101 8102 8 8 1016.0 8168 8 1017.0 8169 8 1050.6 B 1018.1 B 1019.1 8103 8104 8105 8106 984.4 985.4 8170 1052.6 8138 8 1020.1 8171 8139 8 1021.1 8172 1053.7 986.5 987.5 988.5 989.5 1055.7 8173 8140 8 8141 8 8142 8 8143 8 8174 8175 8176 8177 8178 8179 8107 8108 8 1056.7 1057.7 1022.1 1023.2 1024.2 1025.2 8109 990.5 1058.7 1059.8 991.6 992.6 993.6 994.6 995.6 8 8 8 8 1026.2 1027.2 8110 8 8 8 8144 1060.8 8111 8145 1061.8 8112 8113 8146 8147 1028.2 1029.3 8181 8182 1030.3 1031.3 8114 8148 1063.8 996.7 997.7 998.7 999.7 1064.8 8115 8149 8116 8183 8150 8151 8117 1032.3 B184 1066.9 1067.9 8118 1033.3 8185 8119 1000.7 8152 1034.3 1035.4 8186 8187 1068.9 1069.9 8153 1036.4 1037.4 8120 8 1001.8 8154 8188 1070.9 1002.8 8155 8121 8189 1072.0 8122 8123 1003.8 1004.8 8156 8157 1038.4 1039.4 8190 1073.0 8124 1005.6 8158 1040.4 1041.5 8191 8192 1074.0 1075.0 8125 1006.9 8159 1007.9 1008.9 1009.9 8126 8193 1076.0 1042.5 1043.5 1044.5 1045.5 8160 8161 8162 1077.0 1078.1 8127 8194 8195 8128 1010.9 8196 8197 1079.1 8163 8164 8165 8166 1046.5 1047.6 **B130** 1012.0 8131 8 8132 8 8133 8 1013.0 8199 8 1062.1 1014.0 1015.0 1048.6 8200 8 1063.1 1049.6 8167

Use check point at \$100 Kc

Frequency: 8200-8300 Kc

	_	11041				-		
Freq.	Α	B	Freq.	Α	В	Freq.	A	В
8200	8	1083.1	8234	8	1117.6	8268	8	1152.1
8201	8	1084.1	B235	8	1118.6	8269	8	1153.1
8202	8	1085.2	8236	8	1119.7			
8203	8	1086.2	8237	8	1120.7	8270	8	1154.1
8204	8	1087.2	8238	8	1121.7	8271	8	1155.1
8205	8	1088.2	8239	8	1122.7	8272	8	1156.1
8206	8	1089.2				8273	8	1157.1
8207	8	1090.2	8240	8	1123.7	8274	8	1158.1
8206	8	1091.3	8241	8	1124.7	8275	8	1159.2
8209	8	1092.3	8242	8	1125.7	8276	8	1160.2
			8243	8	1126.7	8277	В	1161.2
8210	8	1093.3	8244	8	1127.8	8278	8	1162.2
8211	8	1094.3	8245	В	1128.8	8279	8	1163.2
8212	8	1095.3	8246	В	1129.8			
8213	8	1096.3	8247	8	1130.8	8280	8	1164.2
8214	8	1097.3	8248	8	1131.8	8281	8	1165.2
8215	8	1098.4	8249	_8	1132.8	8282	8	1166.2
8216	8	1099.4				8283	8	1167.2
8217	8	1100.4	8250	8	1133.8	8284	8	1168.2
8218	8	1101.4	8251	8	1134.9	8285	8	1169.3
8219	8	1102.4	8252	8	1135.9	8286	8	1170.3
			8253	В	1136.9	8287	8	1171.3
8220	8	1103.4	8254	8	1137.9	8288	8	1172.3
8221	8	1104.5	8255	8	1138.9	8289	8	1173.3
8222	8	1105.5	8256	8	1139.9			
8223	8	1106.5	8257	8	1140.9	8290	8	1174.3
8224	8	1107.5	8258	8	1141.9	8291	8	1175.3
8225	8	1106.5	8259	8	1143.0	8292	8	1176.3
8226	8	1109.5	•			8293	8	1177.3
8227	8	1110.5	8260	В	1144.0	8294	8	117B.3
8228	8	1111.5	8261	6	1145.0	8295	8	1179.3
8229	8	1112.6	8262	8	1146.0	8296	8	1180.3
			8263	8	1147.0	8297	8	1181.3
8230	8	1113.6	8264	8	1148.0	8298	8	1182.4
8231	в	1114.6	8265	8	1149.0	8299	8	1183.4
8232	B	1115.6	8266	8	1150.0	ļ		
8233	8	1116.6	8267	8	1151.1	8300	8	1184.4
						L1-A	- 1-	

Use check point at \$100 or \$400 Kc, whichever is nearer

Frequency: 8300—8400 Kc

Freq.	A	В	Freq.	A	В	Freq.	A	В
8300	8	1184.4	8334	8	1218.8	8368	8	1253.1
8301	8	1185.4	8335	8	1219.8	8369	8	1254.1
8302	8	1186.4	8336	8	1220.8	l		
8303	8	1187.4	8337	8	1221.9	8370	8	1255.1
8304	8	1188.4	8338	8	1222.9	8371	8	1256.1
8305	8	1189.4	8339	8	1223.9	8372	8	1257.1
8306	8	1190.4	ì			8373	В	1258.1
8307	8	1191.4	8340	8	1224.9	8374	B	1259.1
8306	8	1192.4	8341	8	1225.9	8375	8	1260.1
8309	8	1193.4	8342	8	1226.9	8376	8	1261.1
			8343	8	1227.9	8377	8	1262.1
8310	8	1194.4	8344	8	1228.9	8378	8	1263.2
8311	8	1195.5	8345	8	1229.9	8379	8	1264.2
8312	8	1196.5	8346	6	1230.9	l		
8313	8	1197.5	8347	8	1231.9	8380	8	1265.2
8314	6	1198.5	8348	8	1233.0	8381	8	1266.2
8315	8	1199.5	8349	8	1234.0	8382	8	1267.2
8316	8	1200.5				8383	8	1268.2
8317	8	1201.5	8350	8	1235.0	8384	В	1269.2
8318	8	1202.6	8351	8	1236.0	8385	В	1270.2
8319	8	1203.6	8352	8	1237.0	8386	8	1271.2
			8353	8	1238.0	8387	8	1272.2
8320	8	1204.6	8354	8	1239.0	8388	8	1273.2
8321	8	1205.6	8355	8	1240.0	8389	8	1274.2
8322	8	1206.6	8356	8	1241.0	1		
8323	В	1207.6	8357	8	1242.0	8390	8	1275.2
8324	В	1206.7	8358	8	1243.0	839t	8	1276.2
8325	8	1209.7	8359	8	1244.0	8392	8	1277.2
8326	8	1210.7				8393	8	1276.3
8327	8	1211.7	8360	В	1245.0	8394	8	1279.3
8328	8	1212.7	8361	8	1246.0	8395	8	1280.3
8329	8	1213.7	8362	8	1247.0	8396	8	1281.3
			8363	8	1248.1	8397	8	1282.3
8330	8	1214.7	8364	8	1249.1	8398	8	1283.3
8331	8	1215.8	8365	8	1250.1	6399	5	1284.3
8332	8	1216.8	8366	8	1251.1			
8333	8	1217.8	8367	8	1252.1	8400	*	1,285.3

Use check point at \$400 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

		Frequ	ency:	84	00-85	00 Kc					Freq	neuch:	86	00-87	00 Kc		
req.	A	В	Freq.	A	В	Freq.	A	B	Freq.	A	В	Freq.	Λ	B	Freq.	Λ	
3400		1285.3	8434	8	1319.7	8468	8	1354.0	8600	8	1487.9	8634	8	1522.5	8668	8	
B401	8	1286.3	8435	8	1320.7	8469	8	1355.1	8601	8	1488.9	8635	8	1523.6	8669	8	
8402	8	1287.3	8436	8	1321.7	1			8602	8	1489.9	8636	8	1524.6	l		
8403	8	1288.3	8437	8	1322.7	8470	8	1356.1	8603	8	1490.9	8637	8	1525.6	8670	8	
8404	8	1289.3	8438	8	1323.7	8471	8	1357.1	8604	8	1491.9	8638	8	1526.6	8671	8	
B405	8	1290.4	8439	8	1324.8	8472	8	1358.1	8605	8	1493.0	8639	8	1527.7	8672	8	
8406	8	1291.4				8473	8	1359.1	8606	- 8	1494.0				8673	8	
8407	8	1292.4	8440	8	1325.8	8474	8	1360.1	8607	8	1495.0	8640	8	1528.7	8674	8	
8408	8	1293.4	8441	8	1326.8	8475	8	1361.1	8608	8	1496.0	8641	8	1529.7	8675	8	
8409	8	1294.4	8442	8	1327.8	8476	8	1362.1	8609	8	1497.0	8642	В	1530.7	8676	8	
		_	8443	8	1328.8	8477	8	1363.1				8643	8	1531.7	8677	8	
8410	8	1295.4	8444	8	1329.8	8478	8	1364.2	8610	8	1498.0	8644	8	1532.8	8678	8	
8411	B	1296.4	8445	₿	1330.8	8479	8	1365.2	8611	8	1499.0	8645	8	1533.8	8679	8	
8412	8	1297.4	8446	8	1331.8	1			8612	8	1500.1	8646	8	1534.8			
8413	8	1298.5	8447	8	1332.8	8480	8	1366.2	8613	8	1501.1	8647	8	1535.8	8680	8	
8414	8	1299.5	8448	8	1333.8	8481	8	1367.2	8614	8	1502.1	8648	8	1536.8	8681	8	
8415	8	1300.5	8449	8	1334.9	8482	8	1368.2	8615	. 8	1503.1	8649	8	1537.9	8682	8	
8416	8	1301.5	l .			8483	8	1369.2	8616	8	1504.2				8683	8	
8417	8	1302.5	8450	8	1335.9	8484	8	1370.2	8617	8	1505.2	8650	8	1538.9	8684	8	
8418	8	1303.5	8451	8	1336.9	8485	8	1371.2	8618	8	1506.2	8651	8	1539.9	8685	8	
8419	8	1304.5	8452	8	1337.9	8486	8	1372.2	8619	8	1507.2	8652	8	1540.9	8686	8	
			8453	8	1338.9	8487	8	1373.2				8653	8	1541.9	8687	8	
8420	8	1305.5	8454	В	1339.9	8488	8	1374.3	8620	8	1508.2	8654	8	1543.0	8688	8	
8421	8	1306.6	8455	8	1340.9	8489	В	1375.3	8621	8	1509.3	8655	8	1544.0	8689	8	
8422	8	1307.6	8456	8	1341.9	1			8622	. 8	1510.3	8656	8	1545.0	1		
8423	8	1308.6	8457	8	1342.9	8490	8	1376.3	8623	8	1511.3	8657	8	1546.0	8690	8	
8424	8	1309.6	8458	8	1343.9	8491	8	1377.3	8624	8	1512.3	8658	8	1547.0	8691	8	
8425	8	1310.6	8459	8	1345.0	8492	8	1378.3	8625	8	1513.4	8659	8	1548.1	8692	8	
8426	8	1311.6	1			8493	8	1379.3	8626	8	1514.4	1			8693	8	
8427	8	1312.6	8460	8	1346.0	8494	В	1380.3	8627	. 8	1515.4	8660	В	1549.1	8694	В	
8428	8	1313.6	8461	8	1347.0	8495	8	1381.3	8626	8	1516.4	8661	8	1550.1	8695	8	
8429	8	1314.6	8462	8	1348.0	8496	8	1382.3	8629	8	1517.4	8662	8	1551.1	8696	8	
			8463	8	1349.0	8497	8	1383.4				8663	8	1552.1	8697	8	
8430	8	1315.7	8464	8	1350.0	8498	8	1384.4	8630	8	1518.5	8664	8	1553.2	8698	8	
8431	8	1316.7	8465	8	1351.0	8499	8	1385.4	8631	8	1519.5	8665	8	1554.2	8699	8	
8432	8	1317.7	8466	8	1352.0	1			8632	8	1520.5	8666	8	1555.2			
8433	8	1318.7	8467	8	1353.0	8500	8	1386.4	8633		1521.5	8667	8	1556.2	2700		

Use check point at 8400 Kc

Use check point at \$700 Kc

Freq.	Α	В	Freq.	Α	В	Freq.	Α	В
8500	8	1386.4	8534	8	1420.8	8568	8	1455.4
8501	8	1387.4	8535	B	1421.8	8569	8	1456.4
8502	8	1388.4	8536	8	1422.8	1 ****	-	
8503	8	1389.4	8537	8	1423.9	8570	8	1457.4
8504	8	1390.4	8538	8	1424.9	8571	8	1458.5
8505	8	1391.4	8539	8	1425.9	8572	8	1459.5
8506	8	1392.5				8573	8	1460.5
8507	8	1393.5	8540	8	1426.9	8574	8	1461.5
8508	8	1394.5	8541	8	1427.9	8575	8	1462.5
8509	8	1395.5	8542	8	1428.9	8576	8	1463.6
			8543	8	1430.0	8577	8	1464.6
8510	8	1396.5	8544	8	1431.0	8578	8	1465.6
8511	8	1397.5	8545	8	1432.0	8579	8	1466.6
8512	8	1398.5	8546	8	1433.0	ł		
8513	8	1399.5	8547	8	1434.0	8580	8	1467.6
8514	8	1400.5	8548	8	1435.0	8581	8	1468.7
8515	8	1401.5	8549	8	1436.0	8582	8	1469.7
8516	8	1402.6				8583	8	1470.7
8517	8	1403.6	8550	8	1437.1	8584	8	1471.7
8518	8	1404.6	8551	В	1438.1	8585	8	1472.7
8519	8	1405.6	8552	8	1439.1	8586	8	1473.7
			8553	8	1440.1	8587	8	1474.7
8520	8	1406.6	8554	8	1441.1	8588	8	1475.7
8521	8	1407.6	8555	8	1442.2	8589	8	1476.8
8522	8	1408.6	8556	8	1443.2			
8523	8	1409.6	8557	8	1444.2	8590	8	1477.8
8524	8	1410.7	8558	В	1445.2	8591	8	1478.8
8525	8	1411.7	8559	8	1446.2	8592	8	1479.8
8526	8	1412.7	l			8593	8	1480.8
8527	8	1413.7	8560	8	1447.3	8594	8	1481.8
8528	8	1414.7	8561	8	1448.3	8595	8	1482.8
8529	В	1415.7	8562	8	1449.3	8596	8	1483.8
			8563	8	1450.3	8597	8	1484.9
8530	8	1416.8	8564	8	1451.3	8598	8	1485.9
8531	8	1417.8	8565	8	1452.4	8599	8	1486.9
8532	В	1418.8	8566	8	1453.4	l		
8533	8	1419.8	8567	8	1454.4	8600	8	1487.9

Use check point at 8400 or 8700 Kc, whichever is nearer

		Frequ	ency:	87	00-88	00 Kc		
Freq.	A	В	Freq.	A	В	Freq.	A	В
8700		1590.1	8734	8	1625.2	8768	8	1660.6
8701	8	1591.1	8735	8	1626.3	8769	8	1661.7
8702	8	1592.1	8736	8	1627.3			
8703	8	1593.2	8737	8	1628.3	8770	8	1662.7
8704	8	1594.2	8738	8	1629.4	8771	8	1663.7
8705	8	1595.2	8739	8	1630.4	8772	8	1664.8
8706	8	1596.3	i i			8773	8	1665.8
8707	8	1597.3	8740	8	1631.5	8774	8	1666.9
8708	8	1598.3	8741	8	1632.5	8775	8	1667.9
8709	8	1599.4	8742	В	1633.5	8776	8	1669.0
			8743	8	1634.6	8777	8	1670.0
8710	8	1600.4	8744	8	1635.6	8778	8	1671.0
8711	8	1601.4	8745	8	1636.7	8779	8	1672.1
8712	8	1602.5	8746	8	1637.7			
8713	8	1603.5	8747	8	1638.7	8760	8	1673.1
8714	8	1604.5	8748	8	1639.8	8761	8	1674.2
B715	8	1605.6	8749	8	1640.8	8782	8	1675.2
8716	8	1606.6	ı			8783	8	1676.3
8717	8	1607.6	8750	8	1641.9	8784	8	1677.3
8718	8	1608.7	8751	В	1642.9	8785	8	1678.3
8719	8	1609.7	8752	8	1643.9	8786	8	1679.4
			8753	8	1645.0	8787	8	1680.4
8720	8	1610.7	8754	8	1646.0	8788	8	1681.5
8721	8	1611.8	8755	8	1647.1	8789	8	1682.5
8722	8	1612.8	8756	8	1648.1	Ì		
8723	8	1613.8	8757	8	1549.1	8790	8	1683.6
8724	8	1614.9	8758	8	1650.2	8791	8	1684.6
8725	8	1615.9	8759	8	1651.2	8792	8	1685.7
8726	8	1616.9	l			8793	8	1686.7
8727	8	1618.0	8760	8	1652.3	8794	8	1687.8
8728	8	1619.0	8761	8	1653.3	8795	8	1688.8
8729	8	1620.0	8762	8	1654.3	8796	8	1689.9
			8763	8	1655.4	8797	8	1690.9
8730	8	1621.1	8764	8	1656.4	8798	8	1692.0
8731	8	1622.1	8765	8	1657.5	8799	8	1693.0
8732	8	1623.1	8766	8	1658.5	l		
8733	8	1624.2	8767	8	1659.6	8800	8	1694.

Use check point at 8700 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

q.	A	В	Freq.	A	В	Freq.	A	<u> </u>	Freq.		В	Freq.	_	В	Freq.		
00	8	1694.1	8834	8	1729.9	8868	8	1766.0	5000	9	100.1	9034	9	128.1	9068	9	
30 1	8	1695.1	8835	8	1731.0	8869	8	1767.1	9001	9	101.0	9035	9	128.9	9069	9	
802	8	1696.2	8836	8	1732.0	j			9002	9	101.8	9036	9	129.7	1		
1803	8	1697.2	8837	8	1733.1	8870	8	1768.2	9003	9	102.6	9037	9	130.6	9070	9	
8804	8	1698.3	8838	8	1734.1	8871	8	1769.3	9004	9	103.4	9038	9	131.4	9071	9	
8805	8	1699.3	8839	8	1735.2	8872	8	1770.3	9005	9	104.3	9039	9	132.2	9072	9	
8806	8	1700.4	ŀ			8873	8	1771.4	9006	9	105.1				9073	9	
8807	8	1701.4	8840	8	1736.2	8874	8	1772.5	9007	9	105.9	9040	9	133.0	9074	9	
8008	8	1702.5	8841	8	1737.3	8875	8	1773.5	9008	9	106.7	9041	9	133.8	9075	9	
6809	8	1703.5	8842	8	1738.4	8876	8	1774.6	9009	9	107.5	9042	9	134.7	9076	9	
			8843	8	1739.4	8877	9	1775.7				9043	9	135.5	9077	9	
8810	8	1704.6	8844	8	1740.5	8878	8	1776.7	9010	9	108.4	9044	9	136.3	9078	9	
8811	8	1705.7	8845	8	1741.5	8879	8	1777.8	9011	9	109.2	9045	9	137.1	9079	9	
8812	8	1706.7	8846	8	1742.6				9012	9	110.0	9046	9	137.9	l		
8813	8	1707.8	8847	8	1743.6	8880	8	1778.9	9013	9	110.8	9047	9	138.8	9080	9	
8814	8	1708.8	8848	8	1744.7	8881	8	1780.0	9014	9	111.6	9048	9	139.6	9081	9	
8815	8	1709.9	8849	8	1745.7	8882	8	1781.0	9015	9	112.5	9049	9	140.4	9082	9	
8816	8	1710.9				8883	8	1782.1	9016	9	113.3	Ì			9083	9	
8817	8	1712.0	8850	8	1746.8	8884	8	1783.2	9017	9	114.1	9050	9	141.2	9084	9	
8818	8	1713.0	8851	8	1747.9	8885	8	1784.3	9018	9	114.9	9051	9	142.0	9085	9	
8819	8	1714.1	8852	8	1748.9	8886	8	1785.3	9019	9	115.8	9082	9	142.9	9086	9	
			8853	8	1750.0	8887	8	1786.4				9053	9	143.7	9087	9	
8820	8	1715.1	8854	8	1751.1	8888	8	1787.5	9020	9	116.6	9054	9	144.5	9088	9	
8821	8	1716.2	8855	8	1752.1	8889	8	1788.6	9021	9	117.4	9055	9	145.3	9089	9	
8822	8	1717.2	8856	8	1753.2	Į.			9022	9	118.2	9056	9	146.1			
8823	8	1718.3	8857	8	1754.3	8890	8	1789.6	9023	9	119.0	9057	9	147.0	9090	9	
B824	8	1719.3	8858	8	1755.4	8891	8	1790.7	9024	9	119.9	9058	9	147.8	9091	9	
8825	8	1720.4	8859	8	1756.4	8892	8	1791.8	9025	9	120.7	9059	9	148.6	9092	9	
8826	8	1721.5	l			8893	8	1792.9	9026	9	121.5				9093	9	
8827	8	1722.5	8860	8	1757.5	8894	8	1794.0	9027	9	122.3	9060	9	149.4	9094	9	
8828	8	1723.6	8861	8	1758.6	8895	8	1795.0	9028	9	123.2	9061	9	150.2	9095	9	
8829	8	1724.6	8862	8	1759.6	8896	8	1796.1	9029	9	124.0	9062	9	151.1	9096	9	
			8863	8	1760.7	8897	8	1797.2				9063	9	151.9	9097	9	
8830	8	1725.7	8864	8	1761.8	8898	8	1798.3	9030	9	124.8	9064	9	152.7	9098	9	
8831	8	1726.7	8865	8	1762.8	8899	8	1799.3	9031	9	125.6	9065	9	153.5	9099	9	
8832	8	1727.8	8866	8	1763.9	1			9032	9	126.4	9066	9	154.3	1		
8833	8	1728.8	8867	8	1765.0	8900	8	1800.4	9033	9	127.3	9067	9	155.1	9100	9	

В 237.7 238.5

239.3 240.1 240.9 241.7 242.5 243.4 244.2 245.0 245.8 246.6

247.4 248.3 249.1 249.9 250.7 251.5 252.4 253.2 254.0 254.8

255.6 256.5 257.3 258.1 258.9 259.7 260.6 261.4 282.2 263.0

263.8

		Frequ	ency:	89	00-90	00 Kc					Frequ	ency:	910	92-92	00 Kc	:
Freq.	A	В	Freq.	_	В	Freq.	Α	В	Freq.	_A	В	Freq.	Λ	В	Freq.	
8900	6	1800.4	8934	8	1837.2	8968	8	1874.6	9100	9	182.1	9134	9	209.9	9168	
8901	6	1801.5	8935	8	1838.3	8969	8	1875.7	9101	9	183.0	9135	9	210.7	9169	
8902	8	1802.6	8936	8	1839.3				9102	9	183.8	9136	9	211.5	I	
8903	B	1803.6	8937	8	1840.4	8970	8	1876.8	9103	9	184.6	9137	9	212.3	9170	
8904	8	1804.7	8938	8	1841.5	8971	8	1877.9	9104	9	185.4	9138	9	213.2	9171	
8905	8	1805.8	8939	8	1842.6	8972	8	1879.0	9105	9	186.2	9139	9	214.0	9172	
8906	8	1806.9	1			8973	8	1880.1	9106	9	187.0	1			9173	
8907	8	1808.0	8940	8	1843.7	8974	8	1881.2	9107	9	187.9	9140	9	214.8	9174	
8908	8	1809.0	8941	8	1844.8	8975	8	1882.3	9108	9	188.7	9141	9	215.6	9175	
8909	8	1810.1	8942	8	1845.9	8976	В	1883.4	9109	9	189.5	9142	9	216.4	9176	
			8943	8	1847.0	8977	8	1884.5				9143	9	217.2	9177	
8910	8	1811.2	8944	8	1848.1	8978	8	1885.6	9110	9	190.3	9144	9	218.1	9178	
8911	8	1812.3	8945	8	1849.2	8979	8	1886.7	9111	9	191.1	9145	9	218.9	9179	
8912	8	1813.3	8946	8	1850.3	1			9112	9	191.9	9146	9	219.7		
8913	8	1814.4	8947	8	1851.4	8980	8	1887.8	9113	9	192.8	9147	9	220.5	9180	į
8914	8	1815.5	8948	8	1852.5	8981	8	1888.9	9114	9	193.6	9148	9	221.3	9181	
8915	8	1816.6	8949	8	1853.6	8982	8	1890.1	9115	9	194.4	9149	9	222.1	9182	•
8916	8	1817.7	ì			8983	8	1891.2	9116	9	195.2	1			9183	t
8917	8	1818.8	8950	8	1854.7	8984	8	1892.3	9117	9	196.0	9150	9	223.0	9184	ŀ
8918	8	1819.8	8951	8	1855.8	8985	8	1893.4	9118	9	196.8	9151	9	223.8	9185	
8919	8	1820.9	8952	8	1856.9	8986	8	1894.5	9119	9	197.6	9152	9	224.6	9186	;
			8953	8	1858.0	8987	8	1895.6		_		9153	9	225.4	9187	•
8920	8	1822.0	8954	8	1859.1	8988	8	1896.7	9120	9	198.5	9154	9	226.2	9188	
8921	8	1823.1	8955	8	1860.2	8989	8	1897.8	9121	9	199.3	9155	9	227.0	9189	į
8922	8	1824.2	8956	8	1861.3	1			9122	9	200.1	9156	9	227.9		
8923	8	1825.3	8957	8	1862.4	8990	8	1896 9	9123	9	200.9	9157	9	228.7	9190	į
8924	В	1826.3	8958	8	1863.5	8991	8	1900.0	9124	9	201.7	9158	9	229.5	9191	
8925	8	1827.4	8959	8	1864.6	8992	8	1901.1	9125	9	202.5	9159	9	230.3	9192	
8926	8	1828.5	1			8993	8	1902.2	9126	9	203.4	1			9193	
8927	8	1829.6	8960	8	1865.7	8994	8	1903.4	9127	9	204.2	9160	9	231.1	9194	
8926	В	1830.7	8961	8	1866.8	8995	8	1904.5	9128	9	206.0	9161	9	231.9	9195	,
8929	8	1831.8	8962	8	1867.9	8996	8	1905.6	9129	9	205.8	9162	9	232.6	9196	
			8963	8	1869.0	8997	8	1906.7				9163	9	233.6	9197	
8930	8	1832.8	8964	8	1870.1	8998	8	1907.8	9130	9	206.6	9164	9	234.4	9196	
8931	8	1833.9	8965	8	1871.2	8999	8	1908.9	9131	9	207.4	9165	9	235.2	9199	
8932	6	1835.0	8966	8	1872.3	1			9132	9	208.3	9166	9	236.0	[
8933	8	1836.1	8967	8	1873.5	9000		1918.0	9133	9	209.1	9167	9	236.8	9200	

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

		Frequ	ency:	920	XX—93	00 Kc					Frequ	ency:	94	DO <u>-</u> 95	00 Kc		
Teq.	_	В	Freq.	A	В	Freq.	A	В	Freq.	A	В	Freq.	Ā	В	Freq.	<u> </u>	
200	9	263.8	9234	9	291.7	9268	9	319.6	9400	9	428.2	9434	9	456.3	9468	9	4
201	9	264.6	9235	9	292.5	9269	9	320.4	9401	9	429.0	9435	9	457.2	9469	9	4
202	9	265.5	9236	9	293.3				9402	9	429.8	9436	9	458.0			
203	9	266.3	9237	9	294.2	9270	9	321.2	9403	9	430.7	9437	9	458.8	9470	9	
204	9	267.1	9238	9	295.0	9271	9	322.1	9404	9	431.5	9438	9	459.6	9471	9	
205	9	267.9	9239	9	295.8	9272	9	322.9	9405	9	432.3	9439	9	460.5	9472	9	
206	9	268.7				9273	9	323.7	9406	9	433.2				9473	9	
207	9	269.6	9240	9	296.5	9274	9	324.5	9407	9	434.0	9440	9	461.3	9474	9	
208	9	270.4	9241	9	297.4	9275	9	325.3	9406	9	434.8	9441	9	462.1	9475	9	
209	9	271.2	9242	9	298.3	9276	9	326.2	9409	9	435.6	9442	9	462.9	9476	9	
			9243	9	299.1	9277	9	327.0				9443	9	463.8	9477	9	
210	9	272.0	9244	9	299.9	9278	9	327.8	9410	9	436.5	9444	9	464.6	9478	9	
211	9	272.8	9245	9	300.7	9279	9	328.6	9411	9	437.3	9445	9	465.4	9479	9	
212	9	273.7	9246	9	301.5				9412	9	438.1	9446	9	466.3	l		
9213	9	274.5	9247	9	302.4	9280	9	329.4	9413	9	438.9	9447	9	467.1	9480	9	
214	9	275.3	9248	9	303.2	9281	9	330.3	9414	9	439.8	9448	9	467.9	9481	9	
215	9	276.1	9249	9	304.0	9282	9	331.1	9415	9	440.6	9449	9	468.7	9482	9	
216	9	276.9				9283	9	331.9	9416	9	441.4				9483	g	
217	9	277.8	9250	9	304.8	9284	9	332.7	9417	9	442.3	9450	9	469.6	9484	9	
218	9	27B.6	9251	9	305.6	9285	9	333.5	9418	9	443.1	9451	9	470.4	9485	9	
9219	9	279.4	9252	9	306.5	9286	9	334.4	9419	9	443.9	9452	9	471.2	9486	9	
			9253	9	307.3	9287	9	335.2				9453	9	472.1	9487	9	
9220	9	280.2	9254	9	308.1	9288	9	336.0	9420	9	444.7	9454	9	472.9	9488	9	
9221	9	281.0	9255	9	308.9	9289	9	336.8	9421	9	445.6	9455	9	473.7	9489	9	
9222	9	281.8	9256	9	309.7	1			9422	9	446.4	9456	9	474.5	1	_	
9223	9	282.7	9257	9	310.6	9290	9	337.6	9423	9	447.2	9457	9	475.4	9490	9	
9224	9	283.5	9258	9	311.4	9291	9	338.5	9424	9	448.0	9458	9	476.2	9491	9	
9225	9	284,3	9259	9	312.2	9292	9	339.3	9425	9	448.9	9459	9	477.0	9492	9	
9226	9	285.1				9293	9	340.1	9426	9	449.7	1			9493	9	
9220 9227	9	285.9	9260	9	313.0	9294	9	340.9	9427	9	450.5	9460	9	477.8	9494	9	
9228	9	286.8	9261	9	313.9	9295	9	341.7	9428	9	451.4	9461	9	478.7	9495	9	
9229	9	287.6	9262	9	314.7		9	342.6	9429	9	452.2	9462	9	479.5	9496	9	
3623	•	407.0	9263	9	315.5		9	343.4				9463	9	480.3	9497	9	
9230	9	288.4	9264	9	316.3		9	344.2	9430	9	453.0	9464	9	481.1	9498	9	
9231	9	289.2	9265	9	317.1		9	345.0	9431	9	453.8	9465	9	482.0	9499	9	
9232	9	290.0	9266	9	318.0		-		9432	9	454.7	9466	9	482.8	1	•	
9233	9	290.9	9267	9	318.8		9	345.8	9433	9	455.5	9467	9	483.6	9500	9	

Use check point at 9000 or 9450 Kc, whichever is nearer

Use check point at 9450 Kc

freq	neuch:	930	XX9400	Kc
	T_		5 le	

Freq.	Α	B	Freq.	Α	В	Frea.	A	В
9300	9	345.8	9334	9	373.7	9368	9	401.7
9301	9	346.7	9335	9	374.5	9369	9	402.5
9302	9	347.5	9336	9	375.4			
9303	9	348.3	9337	9	376.2	9370	9	403.3
9304	9	349.1	9338	9	377.0	9371	9	404.2
9305	9	349.9	9339	9	377.8	9372	9	405.0
9306	9	350.8	j		i	9373	9	405.8
9307	9	351.6	9340	9	378.6	9374	9	406.6
9308	9	352.4	9341	9	379.5	9375	9	407.5
9309	9	353.2	9342	9	380.3	9376	9	408.3
			9343	9	381.1	9377	9	409.1
9310	9	354.0	9344	9	381.9	9378	9	410.0
9311	9	354.9	9345	9	382.7	9379	9	410.8
9312	9	355.7	9346	9	383.6			
9313	9	356.5	9347	9	384.4	9380	9	411.6
9314	9	357.3	9348	9	385.2	9381	9	412.4
9315	9	358.1	9349	9	386.0	9382	9	413.3
9316	9	359.0	l			9383	9	414.1
9317	9	359.8	9350	9	386.8	9384	9	414.9
9318	9	360,6	9351	9	387.7	9385	9	415.8
9319	9	361.4	9352	9	388.5	9386	9	416.6
			9353	9	389.3	9387	9	417.4
9320	9	362.2	9354	9	390.1	9388	9	418.2
9321	9	363.1	9355	9	390.9	9389	9	419.1
9322	9	363.9	9356	9	391.8	1		
9323	9	364.7	9357	9	392.6	9390	9	419.9
9024	9	365.5	9358	9	393.4	9391	9	420.7
9325	9	366.3	9359	9	394.2	9392	9	421.6
9326	9	367.2	1			9393	9	422.4
9327	9	368.0	9360	9	395.1	9394	9	423.2
9328	9	368.8	9361	9	395.9	9395	9	424.0
9329	9	369.6	9362	9	396.7	9396	9	424.9
			9363	9	397.5	9397	9	425.7
9330	S	370.4	9364	9	398.4	9398	9	426.5
9331	9	371.3		9	399.2	9399	9	427.4
9332	9	372.1	9366	9	400.0	1		
9333	9	372.9	9367	9	400.8	9400	9	428.2

Use check point at 9450 Ke

Frequency: 9500-9600 Kc

Freq.	Ā	В	Freq.	A	В	Freq.	A	В
9500	9	510.9	9534	9	539.1	9568	9	567.3
9501	9	511.7	9535	9	540.0	9569	9	568.2
9502	9	512.5	9536	9	540.8			
9503	9	513.4	9537	9	541.6	9570	9	569.0
9504	9	514.2	9538	9	542.5	9571	9	569.8
9505	9	515.0	9539	9	543.3	9572	9	570.6
9506	9	515.9	1			9573	9	571.5
9507	9	516.7	9540	9	544.1	9574	9	572.3
9508	9	517.5	9541	9	544.9	9575	9	573.1
9509	9	518.4	9542	9	545.8	9576	9	574.0
			9543	9	546.6	9577	9	574.8
9510	9	519.2	9544	9	547.4	9578	9	575.6
9511	9	520.0	9545	9	548.3	9579	9	576.4
9512	9	520.8	9546	9	549.1	!		
9513	9	521.7	9547	9	549.9	9580	9	577.3
9514	9	522.5	9548	9	550.7	9581	9	578.1
9515	9	523.3	9549	9	551.6	9582	9	578.9
9516	9	524.2	i			9583	9	579.8
9517	9	525.0	9550	9	552.4	9584	9	580.6
9518	9	525.8	9551	9	553.2	9585	9	581.4
9519	9	526.7	9552	9	554.1	9586	9	582.2
			9553	9	554.9	9587	9	583.1
9520	9	527.5	9554	9	555.7	9588	9	583.9
9521	9	528.3	9555	9	556.5	9589	9	584.7
9522	9	529.2	9556	9	557.4	ì		
9523	9	530.0	9557	9	558.2	9590	9	585.6
9524	9	530.B	9558	9	559.0	9591	9	586.4
9525	9	531.7	9559	9	559.9	9592	9	587.2
9526	9	532.5	1			9593	9	588.1
9527	9	533.3	9560	9	560.7	9594	9	588.9
9528	9	534.1	9561	9	561.5	9595	9	589.7
9529	9	535.0	9562	9	562.4	9596	9	590.6
			9563	9	563.2	9597	9	591.4
9530	9	535.8	9564	9	564.0	9598	9	592.2
9531	9	536.6	9565	9	564.8	9599	9	593.1
9532	9	537.5	9566	9	565.7	1		
9533	9	538.3	9567	8	566.5	9600	9	593.9
						<u> </u>		

Use check point at 9450 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

Freq.	A	В	Freq.	A	В	Freq.	Α	B
9600	9	593.9	9634	9	622.2	9668	9	650.4
9601	9	5\$4.7	9635	9	623.0	9669	9	651.2
9602	9	595.5	9636	9	623.8			
9603	9	596.4	9637	9	624.6	9670	9	652.1
9604	9	597.2	9638	9	625.5	9671	9	652.9
9605	9	598.0	9639	9	626.3	9672	9	653.7
9606	9	598.9				9673	9	654.6
9607	9	599.7	9640	9	627.1	9674	9	655.4
9608	9	600.5	9641	9	628.0	9675	9	656.2
9609	9	601.4	9642	9	628.8	9676	9	657.1
			9643	9	629.6	9677	9	657.9
9610	9	602.2	9644	9	630.5	9678	9	658.7
9611	9	603.0	9645	9	631.3	9679	9	659.6
9612	9	603.9	9646	9	632.1			
9613	9	604.7	9647	9	633.0	9680	9	660.4
9614	9	605.5	9648	9	633.8	9681	9	661.2
9615	9	606.4	9649	9	634.6	9682	9	662.0
9616	9	607.2	l			9683	9	662.9
9617	9	608.0	9650	9	635.5	9684	9	663.7
9618	9	608.9	9651	9	636.3	9685	9	664.5
9619	9	609.7	9652	9	637.1	9686	9	665.4
			9653	9	637.9	9687	9	666.2
9620	9	610.5	9654	9	638.8	9688	9	667.0
9621	9	611.3	9655	9	639.6	9689	9	667.9
9622	9	612.2	9656	9	640.4	l		
9623	9	613.0	9657	9	641.3	9690	9	668.7
9624	9	613.8	9658	9	642.1	9691	9	669.5
9625	9	614.7	9659	9	642.9	9692	9	670.3
9626	9	615.5				9693	9	671.2
9627	9	616.3	9660	9	643.8	9694	9	672.0
9628	9	617.2	9661	9	644.6	9695	9	672.8
9629	9	618.0	9662	9	645.4	9696	9	673.7
			9663	9	646.3	9697	9	674.5
9630	9	618.8	9664	9	647.1	9698	9	675.3
9631	9	619.7	9665	9	647.9	9699	9	676.2
9632	9	620.5	9666	9	648.7	I		
9633	9	621.3	9667	9	649.6	9700	9	677.0

Use check point at 9450 or 9900 Kc, whichever is nearer

A 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	B 760.1 761.0 761.8 762.6 763.5 764.3 765.1 766.0 766.8 767.6 768.5 769.3 770.1	Freq. 9834 9835 9836 9837 9838 9839 9840 9841 9842 9843 9844 9845 9846	A 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	788.3 789.1 790.0 790.8 791.6 792.4 793.3 794.1 794.9 795.7 796.6 797.4	Freq. 9868 9869 987' 9871 9872 9673 9874 9875 9876 9876 9877	A 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	816.5 817.3 818.1 818.9 819.8 820.6 821.4 822.3 823.1 823.9
9999999999999	761.0 761.8 762.6 763.5 764.3 765.1 766.0 766.8 767.6 768.5 769.3 770.1	9835 9636 9637 9838 9839 9840 9841 9842 9843 9844 9845 9846	9 9 9 9 9 9 9 9	789.1 790.0 790.8 791.6 792.4 793.3 794.1 794.9 795.7 796.6	9869 9871 9871 9872 9873 9874 9875 9876 9877	9 9 9 9 9 9	817.3 818.1 818.9 819.8 820.6 821.4 822.3 823.1 823.9
9999999999999	761.8 762.6 763.5 764.3 765.1 766.0 766.8 767.6 768.5 769.3 770.1	9636 9637 9638 9839 9840 9841 9842 9843 9844 9845 9846	9 9 9 9 9 9 9	790.0 790.8 791.6 792.4 793.3 794.1 794.9 795.7 796.6	967' 9671 9672 9673 9674 9675 9876 9877 9878	9 9 9 9 9	818.1 818.9 819.8 820.6 821.4 822.3 823.1 823.9
99999999999	762.6 763.5 764.3 765.1 766.0 766.8 767.6 768.5 769.3 770.1 770.9	9637 9638 9839 9840 9841 9842 9843 9844 9845 9846	9 9 9 9 9 9 9	790.8 791.6 792.4 793.3 794.1 794.9 795.7 796.6	9871 9672 9673 9874 9875 9876 9877 9878	9 9 9 9 9 9	818.9 819.8 820.6 821.4 822.3 823.1 823.9 824.7
9999999999	763.5 764.3 765.1 766.0 766.8 767.6 768.5 769.3 770.1 770.9	9838 9839 9840 9841 9842 9843 9844 9845 9846	9 9 9 9 9 9	791.6 792.4 793.3 794.1 794.9 795.7 796.6	9871 9672 9673 9874 9875 9876 9877 9878	9 9 9 9 9 9	818.5 819.6 820.6 821.4 822.3 823.1 823.5 824.7
999999999	764.3 765.1 766.0 766.8 767.6 768.5 769.3 770.1 770.9	9839 9840 9841 9842 9843 9844 9845 9846	9 9 9 9	792.4 793.3 794.1 794.9 795.7 796.6	9872 9873 9874 9875 9876 9877 9878	9 9 9 9 9	819.8 820.6 821.4 822.3 823.1 823.9 824.7
9 9 9 9 9 9 9	765.1 766.0 766.8 767.6 768.5 769.3 770.1 770.9	9840 9841 9842 9843 9844 9845 9846	9 9 9 9	793.3 794.1 794.9 795.7 796.6	9873 9874 9875 9876 9877 9878	9 9 9 9	820.6 821.4 822.3 823.1 823.9 824.7
9 9 9 9 9 9 9	766.0 766.8 767.6 768.5 769.3 770.1 770.9	9841 9842 9843 9844 9845 9846	9 9 9 9	794.1 794.9 795.7 796.6	9874 9875 9876 9877 9878	9 9 9 9	821.4 822.3 823.1 823.9 824.7
9 9 9 9 9 9	766.8 767.6 768.5 769.3 770.1 770.9	9841 9842 9843 9844 9845 9846	9 9 9 9	794.1 794.9 795.7 796.6	9875 9876 9877 9878	9 9 9	823.1 823.1 823.9 824.7
9 9 9 9 9	767.6 768.5 769.3 770.1 770.9	9842 9843 9844 9845 9846	9 9 9	794.9 795.7 796.6	9876 9877 9878	9 9 9	823.1 823.9 824.7
9 9 9 9	768.5 769.3 770.1 770.9	9843 9844 9845 9846	9	795.7 796.6	9877 9878	9	823.9 824.7
9 9 9	769.3 770.1 770.9	9844 9845 9846	9	796.6	9878	9	824.7
9 9 9	769.3 770.1 770.9	9845 9846	9				
9 9 9	770.1 770.9	9846		797.4			
9 9	770.9				3079	9	825.€
9			9	798.2	l		
-		9847	9	799.1	9880	9	826.4
	771.B	9848	9	799.9	9881	9	827.2
9	772.6	9849	9	800.7	9882	9	828.1
9	773.4	l			9883	9	828.9
9	774.2	9850	9	801.5	9884	9	829.7
9	775.1	9651	9	802.4	9885	9	830.6
9	775.9	9852	9	803.2	9886	9	831.4
		9853	9	804.0	9887	9	832.2
9	776.7	9854		804.8	9888		833.0
9	777.5	9855	9	805.7	9889	9	833.9
9	778.4	9856	9	806.5	l		
9	779.2	9857	9	807.3	9890	9	834.7
9	780.0	9858	9	808.2	9891	9	835.5
9	780.9	9859	9	809.0	9892	9	836.4
9	781.7				9893	9	837.2
9	782.5	9860	9	8.608	9894	9	838.0
9	783.3	9861	9	810.6	9895	9	838.9
9	784.2	9862	9	B11.5	9896	9	839.7
		9863	9	B12.3	9897	9	840.5
9	785.0	9864	9	B13.1	9898	9	841.4
9	785.B	9865	9	814.0	9899	9	842.2
9	786.6	9866	9	814.8	l		
9	787.5	9867	9	815.6	9900	9	843.0
	9999999999999	9 774.2 9 775.1 775.9 9 776.7 9 776.7 9 777.5 9 778.4 9 779.2 9 780.0 9 780.9 9 781.7 782.5 9 783.3 9 784.2 9 785.0 9 785.6 9 786.6 9 786.6	9 774.2 9850 9 775.1 9851 9 775.9 9852 9 775.9 9863 9 776.7 9854 9 777.2 9857 9 780.9 9859 9 780.9 9859 9 781.7 9855 9 782.5 9860 9 783.3 9861 9 782.5 9862 9 783.3 9861 9 785.8 9865 9 785.8 9866 9 785.8 9866	9 774.2 9850 9 9 775.1 9851 9 9 775.9 9853 9 9 776.7 9854 9 9 776.7 9856 9 9 778.4 9856 9 9 778.2 9857 9 9 780.0 9858 9 9 780.0 9858 9 9 780.7 985.9 9 781.7 9860 9 9 783.3 9861 9 9 783.3 9861 9 9 785.0 9862 9 9 785.0 9863 9 9 785.0 9866 9 9 785.0 9866 9 9 785.6 9866 9	9 774.2 9850 9 801.5 9 775.1 9851 9 802.4 9 775.9 9851 9 802.4 9863 9 804.0 9 776.7 9854 9 804.8 9 777.5 9855 9 805.7 9 778.4 9856 9 806.5 9 780.9 9858 9 806.2 9 780.9 9859 9 809.0 9 781.7 9 782.5 9860 9 809.8 9 783.3 9861 9 810.6 9 784.2 9862 9 811.5 9 785.0 9864 9 813.1 9 785.8 9865 9 814.0 9 785.6 9866 9 814.6 9 786.6 9866 9 814.6	9 774.2 9850 9 801.5 9884 9 775.1 9851 9 802.4 9885 9 775.9 9852 9 803.2 9886 9863 9 804.0 9887 9 776.7 9854 9 804.8 9888 9 776.7 9855 9 805.7 9889 9 778.4 9856 9 805.7 9 779.2 9857 9 807.3 9890 9 780.0 9858 9 808.2 9891 9 780.7 9858 9 808.2 9891 9 781.7 9860 9 809.8 9894 9 781.7 9860 9 809.8 9893 9 783.3 9861 9 810.6 9893 9 785.0 9864 9 811.5 9896 9 785.0 9864 9 813.1 9898 9 785.8 9865 9 814.0 9899 9 785.8 9865 9 814.0 9899	9 774.2 9850 9 801.5 9884 9 9 775.1 9851 9 802.4 9885 9 9 775.9 9852 9 803.2 9886 9 9 776.7 9854 9 804.8 9888 9 9 776.7 9854 9 804.8 9888 9 9 778.4 9856 9 806.5 9 9 779.2 9857 9 807.3 9890 9 9 780.9 9859 9 806.5 9 9 780.9 9859 9 809.0 9892 9 9 781.7 9855 9860 9 809.8 9894 9 9 781.7 9856 9 811.5 9896 9 9 782.5 9866 9 811.5 9896 9 9 785.0 9864 9 813.1 9898 9 9 785.0 9864 9 813.1 9898 9 9 785.6 9865 9 814.0 9899 9 9 786.5 9866 9 814.0 9899 9 9 785.6 9866 9 814.0 9899 9 9 786.5 9866 9 814.0 9899 9 9 785.6 9866 9 814.0 9899 9 9 785.6 9866 9 814.0 9899 9 9 785.6 9866 9 814.0 9899 9

Frequency: 9800-9900 Kc

Use check point at 7900 Kc

		Frequ	ency:	97(98900	90 Kc		
Freq.	Α	В	Freq.	Α	B	Freq.	Α	В
9700	9	877.0	9734	9	705.2	9768	9	733.5
9701	9	677.8	9735	9	706.0	9769	9	734.3
9702	9	678.6	9736	9	706.9	l		
9703	9	679.5	9737	9	707.7	9770	9	735.1
9704	9	680.3	9738	9	708.5	9771	9	736.0
9705	9	681.1	9739	9	709.4	9772	9	736.8
9706	9	682.0	l			9773	9	737.€
9707	9	682.8	9740	9	710.2	9774	9	738.5
9708	9	683.6	9741	9	711.0	9775	9	739.3
9709	9	684.5	9742	9	711.9	9776	9	740.1
			9743	9	712.7	9777	9	741.0
9710	9	685.3	9744	9	713.5	9778	9	741.8
9711	9	686.1	9745	9	714.4	9779	9	742.6
9712	9	686.9	9746	9	715.2	l		
9713	9	687.8	9747	9	716.0	9780	9	743.5
9714	9	688.6	9748	9	716.9	9781	9	744.3
9715	9	689.4	9749	9	717.7	9782	9	745.1
9716	9	690.3	l			9783	9	746.0
9717	9	691.1	9750	9	718.5	9784	9	746.8
9718	9	691.9	9751	9	719.3	9785	9	747.6
9719	9	692.8	9752	9	720.2	9786	9	748.5
			9753	9	721.0	9787	9	749.3
9720	9	693.6	9754	9	721.8	9788	9	750.1
9721	9	694.4	9755	9	722.7	9789	9	751.0
9722	9	695.2	9756	9	723.5			
9723	9	696.1	9757	9	724.3	9790	9	751.6
9724	9	696.9	9758	9	725.2	9791	9	752.6
9725	9	697.7	9759	9	726.0	9792	9	753.5
9726	9	698.6	l			9793	9	754.3
9727	9	699.4	9760	9	726.8	9794	9	755.1
9728	9	700.2	9761	9	727.7	9795	9	756.0
9729	9	701.1	9762	9	728.5	9796	9	756.8
			9763	9	729.3	9797	9	757.6
9730	9	701.9	9764	9	730.1	9798	9	758.5
9731	9	702.7	9765	9	731.0	9799	9	759.3
9732	9	703.6	9766	9	731.8			_
9733	9	704.4	9767	9	732.6	9800	9	760.1

Use sheck point at 9900 Ke

		Frequ	ency:	990	0-100	00 Kc		
Freq.	A	В	Freq.	A	В	Freq.	A	В
3300	9	843.8	9934	9	871.0	9968	9	899.1
9901	9	843.8	9935	9	871.9	9969	9	899.9
9902	9	844.7	9936	9	872.7			
9903	9	845.5	9937	9	873.5	9970	9	900.7
9904	9	846.3	9938	9	874.3	9971	9	901.6
9905	9	847.1	9939	9	875.2	9972	9	902.4
9906	9	847.9				9973	9	903.2
9907	9	848.8	9940	9	876.0	9974	9	904.0
9908	9	849.6	9941	9	876.8	9975	9	904.9
9909	9	850.4	9942	9	877.6	9976	9	905.7
			9943	9	878.5	9977	9	906.5
9910	9	851.2	9944	9	879.3	9978	9	907.3
9911	9	852.1	9945	9	880.1	9979	9	908.2
9912	9	852.9	9946	9	880.9	1		
9913	9	853.7	9947	9	881.8	9980	9	909.0
9914	9	854.5	9948	9	882.6	9981	9	909.8
9915	9	855.4	9949	9	883.4	9982	9	910.6
9916	9	856.2				9963	9	911.5
9917	9	857.0	9950	9	884.2	9984	9	912.3
9918	9	857.8	9951	9	885.1	9985	9	913.1
9919	9	858.7	9952	9	885.9	9986	9	913.9
			9953	9	886.7	9987	9	914.8
9920	9	859.5	9954	9	887.5	9988	9	915.6
9921	9	860.3	9955	9	888.4	9989	9	916.4
9922	9	861.1	9956	9	889.2			
9923	9	862.0	9957	9	890.0	9990	9	917.2
9924	9	862.8	9958	9	890.8	9991	9	918.1
9925	9	863.6	9959	9	891.7	9992	9	918.9
9926	9	864.4				9993	9	919.7
9927	9	865.3	9960	9	892.5	9994	9	920.
9928	9	866.1	9961	9	893.3	9995	9	921.4
9929	9	866.9	9962	9	894.1	9996	9	922.2
			9963	9	895.0	9997	9	923.0
9930	9	867.7	9964	9	895.8	9998	9	923.8
9931	9	868.6	9965	9	896.6	9999	9	924.7
9932	9	869.4	9966	9	897 4			
9933	9	870.2	9967	9	898.3	10000	9	925.5

Use check point at 9900 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

		freque	ncy: 1	000	0-101	100 Kc		
Freq.	А	В	Freq.	Ä	В	Frey.	Α	В
10000	9	925.5	10034	9	953.5	10068	9	981.4
10001	9	926.3	10035	9	954.3	10069	9	982.2
10002	9	927 1	10036	9	955.2			
10003	9	928.0	10037	9	956.0	10070	9	983.0
10004	9	928.8	10038	9	956.8	10071	9	983.9
10005	9	929.6	10039	9	957.6	10072	9	984.7
10006	9	930.4				10073	9	985.5
10007	9	931.3	10040	9	958.4	10074	9	986.3
10008	9	932.1	10041	9	959.3	10075	9	987.1
10009	9	932.9	10042	9	960.1	10076	9	988.0
			10043	9	960 9	10077	9	988.8
10010	9	933.7	10044	9	961.7	10078	9	989.6
10011	9	934.6	10045	9	962.5	10079	9	990.4
10012	9	935.4	10046	9	963.4			
10013	9	936.2	10047	9	964.2	10080	9	991.2
10014	9	937.0	10048	9	965.0	10081	9	992.1
10015	9	937.8	10049	9	965.8	10082	9	992.9
10016	9	938.7	ł			10083	9	993.
10017	9	939.5	10050	9	966.6	10084	9	994.
10018	9	940.3	10051	9	967.5	10085	9	995.
10019	9	941.1	10052	9	968.3	10086	9	996.
			10053	9	969.1	10087	9	997.0
10020	9	942.0	10054	9	969.9	10088	9	997.8
10021	9	942.8	10055	9	970.7	10089	9	998.6
10022	9	943.6	10056	9	971.6		•	
10023	9	944.4	10057	9	972.4	10090	9	999.9
10024	9	945.3	10058	9	973.2	10091	9	1000.
10025	9	946.1	10059	9	974.0	10092	9	1001
10026	9	946.9	1			10093	9	1001.5
10027	9	947.7	10060	9	974.8	10094	9	1002.8
10028	9	948.6	10061	9	975.7	10095	9	1003.6
10029	9	949.4	10062	9	976.5	10096	9	1004.4
			10063	9	977.3	10097	9	1005.2
10030	9	950.2	10064	9	978.1	10098	9	1006.0
10031	9	951.0	10065	9	978.9	10099	9	1006.9
10032	9	951.9	10066	9	979.8		_	
10033	9	952.7	10067	9	980.6	10100	9	1007.7
			1			1	-	

Use check point at 9900 Kc

Frequency:	10100-10200	Kc

Freq.	A	В	Freq.	\mathbf{A}	B	Frey.	Α	В
10100	9	1007 7	10134	9	1035 7	10168	9	1063 6
10101	9	1008 5	10135	9	1036 5	10169	9	1064 4
10102	9	1009 3	10136	9	1037 3	ľ		
10103	9	1010 2	10137	9	1038 1	10170	9	1065 3
10104	9	1011 0	10138	9	1038 9	10171	9	1066 1
10105	9	1011 B	10139	9	1039 8	10172	9	1066 9
10106	9	1012 6				10173	9	1067 7
10107	9	1013 5	10140	9	1040 6	10174	9	1068 5
10108	9	1014 3	10141	9	1041 4	10175	9	1069 3
10109	9	1015 1	10142	9	1042 2	10176	9	1070 1
			10143	9	1043 1	10177	9	1071 0
10110	9	1015 9	10144	9	1043 9	10178	9	1071 8
10111	9	1016 7	10145	9	1044 7	10179	9	1072 6
10112	9	1017 6	10146	3	1045 5	ļ		
10113	9	1018 4	10147	9	1046 3	10180	9	1073 4
10114	9	1019 2	10148	9	1047 2	10181	9	1074 2
10115	9	1020 0	10149	9	1048 0	10182	9	1075 0
10116	9	1020 9				10183	9	1075 8
10117	9	1021 7	10150	9	1048 8	10184	9	1076 7
10118	9	1022 5	10151	9	1049 6	10185	9	1077 5
10119	9	1023 3	10152	9	1050 5	10186	9	1078 3
			10153	9	1051 3	10187	9	1079 1
10120	9	1024 1	10154	9	1052 1	10188	9	1079 9
10121	9	1025 0	10155	9	1052 9	10189	9	1080 7
10122	9	1025 8	10156	9	1053 7	Į		
10123	9	1026 6	10157	9	1054 6	10190	9	1081 5
10124	9	1027 4	10158	9	1055 4	10191	9	1082 4
10125	9	1028 3	10159	9	1056 2	10192	9	1083 2
10126	9	1029 1	L			10193	9	1084 0
10127	9	1029 9	10160	9	1057 0	10194	9	1084 8
10128	9	1030 7	10161	9	1057 9	10195	9	1085 6
10129	9	1031 5	10162	9	1058 7	10196	9	1086 4
			10163	9	1059 5	10197	9	1087 2
10130	9	1032 4	10164	9	1060 3	10198	9	1088 1
10131	9	1033 2	10165	3	1061 1	10199	9	1088 9
10132	9	1034 0	10166	9	1062 0	l		
10133	9	1034 B	10167	9	1062 B	10200	9	1089 7
			ı			1		

Use check point at 9900 or 10350 Kc, whichever is nearer

Frequency: 10200-10300 Kc

10200	9		Freq.	Α	В	Freq.	Α	В
10201	3	1089 7	10234	9	1117 4	10268	9	1145 1
	9	1090 5	10235	9	1118 2	10269	9	1145 9
10202	9	1091 3	10236	9	1119 0			
10203	9	1092 1	10237	9	1119 9	10270	9	1146 7
10204	9	1092 9	10238	9	1120 7	10271	9	1147 6
10205	9	1093 B	10239	9	1121 5	10272	9	1148 4
10206	9	1094 6				10273	9	1149 2
10207	9	1095 4	10240	9	1122 3	10274	9	1150 0
10208	9	1096 2	10241	9	1123 1	10275	9	1150 8
10209	9	1097 0	10242	9	1123 9	10276	9	1151 6
			10243	9	1124 7	10277	9	1152 4
10210	9	1097 8	10244	9	1125 6	10278	9	1153 3
10211	9	1098 6	10245	9	1126 4	10279	9	1154.1
10212	9	1099 5	10246	9	1127.2	l		
10213	9	1100 3	10247	9	1128 0	10280	9	1154 9
10214	9	1101 1	10248	9	1128.8	10281	9	1155.7
10215	9	1101 9	10249	9	1129 6	10282	9	1156 5
10216	9	1102 7	ì			10283	9	1157 3
10217	9	1103 5	10250	9	1130 5	10284	9	1158 1
10218	9	1104 4	10251	9	1131 3	10285	9	1158 9
1021 9	9	1105 2	10252	9	1132 1	10286	9	1159 8
			10253	9	1132 9	10287	9	1160 5
10220	9	1106 0	10254	9	1133 7	10288	9	1161 4
10221	9	1106 8	10255	9	1134 5	10289	9	1162 2
10222	9	1107 6	10256	9	1135 3	ļ.		
10223	9	1108 4	10257	9	1136 2	10290	9	1163 D
10224	9	1109 2	10258	9	1137 0	10291	9	1163 8
10225	9	1110 1	10259	9	1137 8	10292	9	1164 6
10550	9	1110 9				10293	9	1165 5
10227	9	1111 7	10260	9	1138 6	10294	9	1166 3
10228	9	1112 5	10261	9	1139 4	10295	9	1167 1
10229	9	1113 3	10262	9	1140 2	10296	9	1167 9
			10263	9	1141 0	10297	9	1168 7
10230	9	1114 1	10264	9	1141 9	10298	9	1169 5
10231	9	1115 0	10265	9	1142 7	10299	9	1170 3
10232	9	1115 8	10266	9	1143 5			
10233	9	1116 6	10267	9	1144 3	10300	9	1171 2
			!			l		

Use check point at 10350 Kc

Frequency: 10300-10400 Kc

Freq.	A	В	Freq.	A	В	Freq.	Α	В
10300	9	1171 2	10334	9	1198 8	10368	9	1226 4
10301	9	1172 0	10335	9	1199 6	10369	9	1227 2
10302	9	1172 8	10336	9	1200 4			
10303	9	1173 6	10337	9	1201 2	10370	9	1228 0
10304	9	1174 4	10338	9	1202 0	10371	9	1228 8
10305	9	1175 2	10339	9	1202 8	10372	9	1229 6
10306	9	1176 0	l			10373	9	1230 4
10307	9	1176 8	10340	9	1203 7	10374	9	1231 3
10308	9	1177 7	10341	9	1204 5	10375	9	1232 1
10309	9	1178 5	10342	9	1205 3	10376	9	1232 9
			10343	9	1206 1	10377	9	1233 7
10310	9	1179 3	10344	9	1206 9	10378	9	1234 5
10311	9	1180 1	10345	9	1207 7	10379	9	1235 3
10312	9	1180 9	10346	9	1208 5	1		
10313	9	1181 7	10347	9	1209 3	10380	9	1236 1
10314	9	1182 5	10348	9	1210 1	10381	9	1236 9
10315	9	1183 4	10349	9	1211 0	10382	9	1237 7
10316	9	1184 2	l			10383	9	1238 6
10317	9	1185 0	10350		1211.8	10384	9	1239 4
10318	9	1185 8	10351	9	1212 6	10385	9	1240 2
10319	9	1186 6	10352	9	1213 4	10386	9	1241 0
	_		10353	9	1214 2	10387	9	1241 8
10329	9	1187 4	10354	9	1215 0	10388	9	1242 6
10321	9	1188 2	10355	9	1215 8	10389	9	1243 4
10322	9	1189 0	10356	9	1216 6	l		
10323	9	1189 8	10357	9	1217 5	10390	9	1244 2
10324	9	1190 7	10358	9	1218 3	10391	9	1245 1
10325	9	1191 5	10359	9	1219 1	10392	9	1245 9
10326	9	1192 3		_		10393	9	1246 7
10327	9	1193 1	10360	9	1219 9	10394	9	1247 5
10328	9	1193 9	10361	9	1220 7	10395	9	1248 3
10329	9	1194 7	10362	9	1221 5	10396	9	1249 1
10220		1105 5	10363	9	1222 3	10397	9	1249 9
10330	9	1195 5	10354	9	1223 1	10398	9	1250 7
10331	9	1196 3	10365	9	1224 0	10399	9	1251 5
10332		1197 2	10366	9	1224 8	1	_	
10333	9	1198 0	10367	9	1225 6	10400	9	1252 4
						<u> </u>		

Use check point at 10350 Kr

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

Frequency: 10400—10500 Kc											
Freq.	Α	Ж	Freq.	A	В	Freq.	A	В			
10400	9	1252 4	10434	9	1280 0	10468	9	1307 7			
10401	9	1253 2	10435	9	1280 6	10469	9	1308 5			
10402	9	1254 0	10436	9	1281 6	ļ					
10403	9	1254 B	10437	9	1282 4	10470	9	1309 3			
10404	9	1255 6	10438	9	1283 2	10471	9	1310 1			
10405	9	1256 4	10439	9	1284 0	10472	9	1310 9			
10406	9	1257 2	1			10473	9	1311 7			
10407	9	1258 0	10440	9	1284 8	10474	9	1312 6			
10406	9	1258 9	10441	9	1285 7	10475	9	1313 4			
10409	9	1259 7	10442	9	1286 5	10476	9	1314 2			
			10443	9	1287 3	10477	9	1315 0			
10410	9	1260 5	10444	9	1288 1	10478	9	1315 B			
10411	9	1261 3	10445	9	128 8 9	10479	9	1316 6			
10412	9	1262 1	10446	9	1289 7	l .					
10413	9	1262 9	10447	9	1290 5	10480	9	1317 4			
10414	9	1263 7	10448	9	1291 4	10481	9	1318 3			
10415	9	1264 5	10449	9	1292 2	10482	9	1319 1			
10416	9	1265 4				10483	9	13t9 9			
10417	9	1266 2	10450	9	1293 0	10484	9	1320 7			
10418	9	1267 0	10451	9	1293 B	10485	9	1321 5			
10419	9	1267 B	10452	9	1294 6	10486	9	1322 3			
			10453	9	1295 4	10487	9	1323 1			
10420	9	1268 6	10454	9	1296 3	10468	g	1324 0			
10421	9	1269 4	10455	9	1297 1	10489	9	1324 8			
10422	9	1270 2	10456	9	1297 9						
10423	9	1271 0	10457	9	1298 7	10490	9	1325 6			
10424	9	1271 8	10458	9	1299 5	10491	9	1326 4			
10425	9	1272 7	10459	9	1300 3	10492	9	1327 2			
10426	9	1273 5				10493	9	1328 0			
10427	9	1274 3	10460	9	1301 1	10494	9	1328 8			
10426	9	1275 1	10461	9	1302 0	10495	9	1329 7			
10429	9	1275 9	10462	9	1302 B	10496	9	1330 5			
			10463	9	1303 6	10497	9	1331 3			
10430	9	1276 7	10464	9	1304 4	10498	9	1332 1			
10431	9	1277 5	10465	9	1305 2	10499	9	1332 9			
10432	9	1278 3	10466	9	1306 0	I					
10433	9	1279 2	10467	9	1306 8	10500	9	1333 7			

Use check point at 10350 Kc

frequency:	10500-10600	Κc

Freq.	A	a	Frey.	A	В	Freq.	٨	B
10500	9	1333 7	10534	9	1361 4	10568	9	1389 0
10501	9	1334 5	10535	9	1362 2	10569	9	1389 8
10502	9	1335 3	10536	9	1363 0			
10503	9	1336 2	10537	9	1363 8	10570	9	1390 6
10504	9	1337 0	10538	9	1364 B	10571	9	1391 4
10505	9	1337 B	10539	9	1365 4	10572	9	1392 2
10506	9	1338 6				10573	9	1393 0
10507	9	1339 4	10540	9	1366 2	10574	9	1393 8
10508	9	1340 2	10541	9	1367 0	10575	9	1394 6
10509	9	1341 0	10542	9	1367 9	10576	9	1395 5
			10543	9	1368 7	10577	9	1396 3
10510	9	1341 9	10544	9	1369 5	10578	9	1397 1
10511	9	1342 7	10545	9	1370 3	10579	9	1397 9
10512	9	1343 5	10546	9	1371 1			
10513	9	1344 3	10547	9	1371 9	10580	9	1398 7
10514	9	1345 1	10548	9	1372 7	10581	9	1399 5
10515	9	1345 9	10549	9	1373 5	10582	9	1400 4
10516	9	1346 7				10583	9	1401 2
10517	9	1347 5	10550	9	1374 3	10584	9	1402 0
1051B	9	1348 4	10551	9	1375 2	10585	9	1402 8
10519	9	1349 2	10552	9	1276 0	10586	9	1403 6
			10553	9	1376 8	10587	9	1404 4
10520	9	1350 0	10554	9	1377 6	10588	9	1405 2
10521	9	1350 8	10555	9	1378 4	10589	9	1406 1
10522	8	1351 6	10556	9	1379 2	l		
10523	9	1352 4	10557	9	1380 0	10590	8	1406 9
10524	9	1353 2	10558	9	1380 8	10591	9	1407 7
10525	9	1354 1	10559	9	1381 7	10592	9	1406 \$
10526	9	1354 9	l			10593	9	1409 3
10527	9	1355 7	10560	9	1382 5	10594	9	1410 1
10528	ġ	1356 5	10561	9	1383 3	10595	9	1411 0
10529	9	1357 3	10562	9	1384 1	10596	9	1411 8
			10563	9	1384 9	10597	9	1412 6
10530	9	1358 1	10564	9	1385 7	10598	9	1413 4
10531	9	1356 9	10565	9	1386 5	10599	9	1414 2
10532	9	1359 7	10566	9	1387 3	l		
10533	9	1360 6	10567	9	1388 1	10600	9	1415 0
			<u> </u>			<u> </u>		

Use check paint at 10350 or 10800 Ks, whichever is neuror

Frequency: 10600-10700 Kc

Freq.	Α	B	Freq.	Α	В	Freq.	Α	В
10600	9	1415 0	10634	9	1442 7	10668	9	1470 3
10601	9	1415 9	10635	9	1443 5	10669	9	1471 1
10602	9	1416 7	10636	9	1444 3	l		
10603	9	1417 5	10637	9	1445 1	10670	9	1472 0
10604	9	1418 3	10638	9	1446 0	10671	9	1472 8
10605	9	1419 1	10639	9	1446 B	10672	9	1473 6
10606	9	1419 9				10673	9	1474 4
10607	9	1420 8	10640	9	1447 6	10674	9	1475 3
10608	9	1421 6	10641	9	1448 4	10675	9	1476 1
10609	9	1422 4	10642	9	1449 2	10676	9	1476 9
			10643	9	1450 0	10677	9	1477 7
10610	9	1423 2	10544	9	1450 8	10678	9	1478 5
10611	9	1424 0	10645	9	1451 6	10679	9	1479 4
10612	9	1424 8	10646	9	1452 4	l		
10613	9	1425 6	10647	9	1453 3	10680	9	1480 2
10614	9	1426 5	10648	9	1454 1	10681	9	1481 D
10615	9	1427 3	10549	9	1454 9	10682	9	1481 6
10616	9	1428 1	i i			10683	9	1482 7
10617	9	1428 9	10650	9	1455 7	10684	9	1483 5
10618	9	1429 7	10651	9	1456 5	10685	9	1484 3
10619	9	1430 5	10652	9	1457 3	10686	9	1485 1
			10653	9	1458 1	10687	9	1485 9
10620	9	1431 4	10654	9	1458 9	10688	9	1486 8
10621	9	1432 2	10655	9	1459.7	10689	9	1487 6
10622	9	1433 (1	10656	9	1450 6			
10623	9	1433 8	10657	9	1461 4	10690	9	1488 4
10624	9	1434 6	10658	9	1462 2	10691	9	1489 2
10625	9	1435 4	10659	9	1463 Q	10692	9	1490 0
10626	9	1436 2				10693	9	1490 9
10627	9	1437 Q	10660	9	1463 8	10694	9	1491 7
10628	9	1437 B	10661	9	1454 6	10695	٩	1492 5
10529	9	1438 7	10662	9	1465 4	10696	9	1493 3
			10663	9	1466 2	10697	9	1494 2
10630	9	1439 5	10664	9	1467 0	10698	9	1495 0
10631	9	1440 3	10665	9	1467 9	10699	9	1495 8
10632	9	1441 1	10666	9	1468 7	I		
10633	9	1441 9	10667	9	1469.5	10700	9	1496 6

Use check point at 10860 Ka

Frequency: 10730-10800 Kc

Freq.	A	Ð	Freq.	A	_ B	Freq.	$\overline{\mathbf{A}}$	_ B
10700	9	1496 6	10734)	1524 5	10768	9	1552 4
10701	9	1497 4	10735	1	1525 3	10769	9	1553 3
10702	9	1498 3	10736	9	1526 1	ľ		
10703	9	1499 1	10737	9	1527 0	10770	9	1554 F
10704	9	1499 9	10738	9	1527 8	10771	9	1554 9
10705	9	1500 7	10739	9	1528 6	10772	9	1555 8
10706	9	1501 6				10773	9	1556 6
10707	9	1502 4	10740	9	1529 4	10774	9	1557 4
10708	9	1503 2	10741	9	1530 2	10775	9	1558 2
10709	9	1504 0	10742	9	1531 1	10776	9	1559 1
			10743	9	1531 9	10777	9	1559 9
10710	9	1504 6	10744	9	1532 7	10778	9	1560 7
10711	9	1505 7	10745	9	1533 5	10779	9	1561 5
10712	9	1506 5	10746	9	1534 3			
10713	9	1507 3	10747	9	1535 2	10780	9	1562 4
10714	9	1508 1	10748	9	1536 0	10781	9	1563 2
10715	9	1506 9	10749	9	1536 8	10782	9	1564 0
10716	9	1509 8	1			10783	9	1564 B
10717	9	1510 6	10750	9	1537 6	10784	9	1565 7
10718	9	1511 4	10751	9	1538 4	10785	9	1566 5
10719	9	1512.2	10752	9	1539 3	10786	9	1567 3
			10753	9	1540 1	10787	9	1568 1
10720	9	1513 0	10754	9	1540 9	10788	9	1569 0
10721	9	1513 9	10755	9	1541 7	10789	9	1569 8
10722	9	1514 7	10756	9	1542.5	i		
10723	9	1515 5	10757	9	1543 4	10790	9	1570 6
10724	9	1516 3	10758	9	1544 2	10791	9	1571 4
10725	9	1517 1	10759	9	1545 0	10792	9	1572 3
10726		1518 0	(10793	9	1573 1
10727	9	1518 8	10760	9	1545 8	10794	9	1573 9
10728		1519 6	10761	9	1546 7	10795	9	1574 7
10729	9	1520 4	10762	9	1547 5	10796	9	1575 6
			10763	9	1548 3	10797	9	1576 4
10730		1521 2	10764	9	1549 1	10798	9	1577 2
10731	9	1522 1	10765	9	1550 0	10799	9	1578 0
10732	9	1522 9	10768	9	1550 8	l		
10733	9	1523 7	10767	9	1551 6	10000	•	1571.9

Use thack point at 10000 Kz

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

Frequency	10800-	.10900	K.

Frequency: 10800—10900 Kc												
Freq.	Ā	В	Freq.	A	В	Freq.	Α	В				
10200	10	60.0	10834	10	83 2	10868	10	106.3				
10801	10	60 7	10835	10	83 8	10869	10	107 0				
10802	10	61 4	10836	10	84 5							
10803	10	62 D	10837	10	85 2	10870	10	107 7				
10804	10	62 7	10838	10	85 9	10871	10	108 4				
10805	10	63 4	10839	10	86 6	10872	10	109 1				
10806	10	64 1				10873	10	109 7				
10807	10	64 B	10840	10	87 3	10874	10	110 4				
10806	10	65 5	10841	10	87 9	10875	10	111 1				
10809	10	66 1	10842	10	88 6	10676	10	111 8				
			10843	10	89 3	10877	10	112 5				
10810	10	66 8	10844	10	90 0	10878	10	113 1				
10811	10	67 5	10845	10	90 7	10879	10	113.8				
10812	10	68 2	10846	10	91 3							
10813	10	68 9	10847	10	92 0	10880	10	114 5				
10814	10	69 5	10848	10	92 7	10881	10	115 2				
10815	10	70 2	10849	10	93 4	10882	10	115 9				
10816	10	70 9	ļ			10883	10	115 6				
10817	10	71 6	10850	10	94 1	10884	10	117 2				
10818	10	72 3	10851	10	94 7	10885	10	117 9				
10819	10	72 9	10852	10	95 4	10886	10	118 6				
			10853	10	96 1	10887	10	119 3				
10820	10	73 6	10854	10	96 8	10888	10	120 0				
10821	10	74 3	10855	10	97 5	10889	10	120 6				
10822	10	75 O	10856	10	98 2							
10823	10	75 7	10857	10	98 B	10890	10	121 3				
10824	10	76 4	10858	10	99 5	10891	10	122 0				
10825	10	77 O	10859	10	100 2	10892	10	122 7				
10826	10	77 7	Ì			10893	10	123 4				
10827	10	78 4	10860	10	100 9	10894	10	124 0				
10828	10	79 1	10861	10	101 6	10895	10	124 7				
10829	10	79 B	10862	10	102 2	10896	10	125 4				
			10863	10	102 9	10897	10	126 1				
10630	10	80 4	10864	10	103 6	10898	10	126 7				
10831	10	81 1	10865	10	104 3	10899	10	127 4				
10832	10	81 8	10866	10	105 0	l						
10833	10	82 5	10867	10	105 6	10900	10	128 1				

Use check point at 10800 Kc

Frequency: 10900-11000 Kc

10900	Freq.	A	B	Freq.	A	В	Freq.	A	В
10902 10 129 4 10936 10 152 5 10930 10 175 4 10930 10 130 8 10 153 8 10971 10 176 1 10905 10 131 5 10939 10 154 5 10972 10 176 8 10906 10 132 8 10940 10 155 2 10974 10 176 8 10907 10 132 8 10940 10 155 5 10974 10 178 8 10908 10 133 5 10941 10 155 9 10975 10 178 8 10909 10 134 2 10942 10 156 5 10976 10 178 8 10910 10 135 5 10944 10 157 2 10977 10 180 2 10910 10 135 5 10944 10 157 9 10978 10 180 8 10911 10 135 5 10945 10 158 6 10979 10 181 5 10912 10 136 2 10946 10 159 2 10913 10 136 3 10946 10 159 2 10913 10 136 3 10946 10 159 2 10913 10 138 3 10946 10 160 6 10981 10 182 2 10916 10 138 3 10916 10 138 3 10916 10 138 3 10916 10 138 3 10916 10 138 3 10916 10 138 3 10916 10 141 0 10952 10 161 3 10986 10 185 6 10991 10 162 6 10987 10 186 6 10991 10 140 3 10955 10 163 3 10986 10 186 6 10992 10 141 6 10954 10 164 6 10987 10 186 6 10992 10 141 6 10954 10 166 7 10990 10 188 3 10926 10 145 7 10957 10 166 7 10990 10 188 3 10926 10 145 7 10957 10 168 7 10991 10 189 6 10992 10 163 3 10992 10 143 3 10995 10 168 7 10990 10 188 9 10992 10 141 6 10958 10 167 7 10997 10 189 6 10992 10 141 6 10958 10 168 7 10991 10 189 6 10992 10 141 6 10958 10 168 7 10991 10 189 6 10992 10 141 6 10996 10 168 7 10991 10 189 6 10992 10 141 6 10996 10 168 7 10991 10 189 6 10992 10 141 6 10996 10 168 7 10996 10 193 7 10997 10 193 7 10997 10 193 7 10997 10 193 7 10930 10 149 8 10996 10 177 7 10997 10 193 7 10930 10 149 8 10996 10 172 7 10999 10 193 7 10930 10 149 8 10996 10 17	10900	10	128 1	10934	10	151 1	10968	10	174 1
10903 10 130 1 10937 10 153 2 10970 10 175 4 10906 10 130 8 10938 10 153 8 10971 10 176 8 10906 10 131 5 10939 10 154 5 10972 10 176 8 10906 10 132 2 10907 10 132 8 10940 10 155 5 10973 10 177 5 10907 10 132 8 10940 10 155 5 10975 10 178 8 10909 10 134 2 10942 10 156 5 10976 10 178 8 10910 10 135 5 10945 10 157 9 10976 10 180 8 10911 10 135 5 10945 10 157 9 10976 10 180 8 10911 10 135 5 10945 10 158 6 10979 10 181 5 10912 10 136 9 10944 10 157 9 10978 10 180 8 10911 10 136 9 10947 10 158 6 10979 10 181 5 10914 10 139 9 10914 10 159 9 10914 10 159 9 10914 10 161 3 10926 10 161 3 10926 10 161 3 10926 10 161 3 10926 10 161 3 10926 10 161 3 10926 10 161 3 10926 10 161 3 10926 10 161 3 10926 10 161 3 10926 10 161 3 10926 10 162 3 10926 10 163 3	10901	10	128 8	10935	10	151 8	10969	10	174 B
10904 10 130 8 10938 10 153 8 10971 10 176 10905 10 131 5 10939 10 154 5 10972 10 176 8 10906 10 132 8 10940 10 155 2 10974 10 178 1 10909 10 134 2 10944 10 155 9 10975 10 178 8 10909 10 134 2 10944 10 155 9 10975 10 178 8 10910 10 135 5 10944 10 157 9 10976 10 179 5 10910 10 135 5 10944 10 157 9 10976 10 180 8 10911 10 135 5 10945 10 158 6 10977 10 180 8 10911 10 135 5 10945 10 158 6 10977 10 180 8 10911 10 135 5 10946 10 159 9 10978 10 181 5 10914 10 137 6 10946 10 159 9 10980 10 181 5 10914 10 137 6 10946 10 159 9 10980 10 182 2 10916 10 138 8 10947 10 159 9 10980 10 182 2 10916 10 138 3 10946 10 161 3 10982 10 183 6 10917 10 139 6 10949 10 161 3 10982 10 183 6 10917 10 141 0 10952 10 163 3 10986 10 184 2 10917 10 141 0 10952 10 163 3 10986 10 186 0 10923 10 141 3 10955 10 166 7 10986 10 187 6 10982 10 143 3 10958 10 166 7 10990 10 188 3 10926 10 147 7 10960 10 168 7 10990 10 193 7 10927 10 147 7 10962 10 167 7 10997 10 193 7 10930 10 149 8 10966 10 172 7 10997 10 193 7 10930 10 149 8 10966 10 172 7 10999 10 193 7 10932 10 149 8 10966 10 172 7 10999 10 193 7 10932 10 149 8 10966 10 172 7 10999 10 193 7 10932 10 149 8 10966 10 172 7 10999 10 193 7 10932 10 149 8 10966 10 172 7 10999 10 193 7 10932 10 149 8 10966 10 172 7 10999 10 10966 10 172 7 10966 10 172 7 10967 10 172 10 172 10932 10 149 8 10966 10 172 7 1096	10902	10	129 4	10936	10	152 5			
10905 10 131 5 10939 10 154 5 10972 10 176 8 10906 10 132 8 10907 10 132 8 10907 10 135 5 10907 10 133 8 10909 10 155 2 10974 10 178 1 10908 10 133 5 10941 10 155 9 10975 10 178 8 10909 10 134 2 10943 10 157 5 10977 10 180 2 10910 10 135 5 10944 10 157 9 10976 10 180 8 10911 10 135 5 10944 10 157 9 10978 10 180 8 10912 10 136 2 10946 10 159 2 10913 10 136 9 10947 10 159 9 10981 10 182 2 10914 10 137 6 10948 10 160 6 10981 10 182 2 10916 10 138 9 10945 10 158 6 10979 10 181 5 10916 10 138 9 10949 10 161 2 10922 10 138 2 10949 10 161 2 10922 10 183 6 10917 10 139 6 10949 10 161 2 10922 10 183 6 10919 10 141 0 10995 10 162 6 10981 10 184 2 10991 10 141 0 10995 10 163 3 10986 10 186 6 10991 10 141 0 10995 10 163 3 10986 10 186 6 10921 10 142 3 10955 10 165 3 10987 10 186 6 10922 10 143 3 10956 10 166 6 7 10992 10 145 0 10995 10 168 0 10995 10 188 3 10996 10 144 3 10995 10 166 7 10997 10 148 3 10995 10 144 0 10995 10 168 0 10995 10 188 3 10996 10 144 7 10997 10 168 7 10999 10 189 6 10999 10 168 0 10999 10 189 6 10999 10 168 0 10999 10 189 6 10999 10 189 6 10999 10 189 6 10999 10 168 0 10999 10 189 6 10999 10 168 0 10999 10 189 6 10999 10 144 6 10996 10 167 6 10990 10 189 6 10999 10 168 0 10999 10 189 6 10999 10 168 0 10999 10 189 6 10999 10 168 0 10999 10 199 3 1099	10903	10	130 1	10937	10	153 2	10970	10	175 4
10906 10 132 2 10940 10 155 2 10974 10 178 10908 10 133 8 10941 10 156 9 10975 10 178 8 10909 10 134 2 10942 10 156 5 10976 10 178 8 10910 10 134 2 10942 10 156 5 10976 10 178 8 10910 10 134 2 10944 10 157 9 10976 10 180 8 10911 10 135 5 10945 10 157 9 10978 10 180 8 10911 10 135 5 10945 10 158 6 10979 10 181 5 10912 10 136 2 10946 10 159 9 10911 10 137 6 10948 10 160 6 10981 10 182 9 10914 10 138 9 10915 10 138 9 10915 10 138 9 10915 10 138 9 10915 10 138 9 10916 10 138 9 10917 10 139 6 10995 10 161 3 10986 10 184 9 10910 10 141 0 10952 10 163 3 10986 10 186 9 10922 10 143 3 10995 10 164 6 10985 10 186 9 10922 10 143 3 10995 10 166 3 10986 10 186 9 10922 10 143 3 10995 10 166 7 10990 10 188 9 10925 10 145 0 10957 10 166 7 10990 10 188 9 10926 10 145 0 10958 10 167 3 10991 10 189 6 10982 10 148 3 10996 10 168 3 10996 10 149 3 10996 10 167 3 10996 10 193 3 10990 10 149 3 10996 10 177 3 10999 10 193 3 10930 10 149 4 10996 10 177 4 10999 10 193 7 10930 10 149 4 10996 10 172 7 10997 10 193 7 10930 10 149 4 10996 10 172 7 10997 10 193 7 10930 10 149 4 10996 10 172 7 10997 10 149 3 10930 10 149 4 10996 10 172 7 10997 10 193 7 10930 10 149 4 10996 10 172 7 10997 10 193 7 10930 10 149 4 10996 10 172 7 10997 10 193 7 10930 10 149 4 10996 10 172 7 10997 10 149 8 10996 10 172 7 10997 10 149 8 10996 10 172 7 10997 10 149 8 1	10904	10	130 8	10938	10	153 B	10971	10	176 1
10907 10 132 8 10940 10 155 2 10974 10 178 10908 10 133 5 10941 10 156 5 10975 10 178 10909 10 134 2 10942 10 156 5 10977 10 180 2 10910 10 134 5 10944 10 157 9 10977 10 180 2 10911 10 135 5 10945 10 158 6 10977 10 180 8 10911 10 135 5 10945 10 158 6 10979 10 181 5 10912 10 136 2 10946 10 159 9 10980 10 181 5 10913 10 136 6 10949 10 151 3 10982 10 183 6 10915 10 138 8 10915 10 138 8 10915 10 138 9 10948 10 161 3 10982 10 183 6 10915 10 138 3 10948 10 161 3 10982 10 183 6 10915 10 162 6 10985 10 184 2 10919 10 141 0 10952 10 163 3 10986 10 186 2 10919 10 141 0 10952 10 164 0 10987 10 185 6 10921 10 142 3 10955 10 166 3 10986 10 187 6 10922 10 143 3 10958 10 166 7 10923 10 144 3 10958 10 166 7 10924 10 144 3 10958 10 166 7 10992 10 148 6 10992 10 149 8 10992 10 149 8 10992 10 149 8 10992 10 149 8 10992 10 149 8 10992 10 149 3 10996 10 169 4 10999 10 193 3 10999 10 149 3 10996 10 177 10997 10 193 7 10997 10 109	10905	10	131 5	10939	10	154 5	10972	10	176 B
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10909 10 134 2 10942 10 156 5 10976 10 179 5 10910 10 134 9 10944 10 157 9 10978 10 180 8 10911 10 135 5 10945 10 158 6 10979 10 181 5 10911 10 135 5 10945 10 158 6 10979 10 181 5 10912 10 136 9 10947 10 159 9 10980 10 182 9 10914 10 138 9 10947 10 159 9 10980 10 182 9 10915 10 138 9 10915 10 138 9 10915 10 138 9 10916 10 138 9 10916 10 138 9 10917 10 139 6 10995 10 161 3 10986 10 184 9 10918 10 140 3 10916 10 166 6 10981 10 184 9 10918 10 140 3 10995 10 163 3 10986 10 186 9 10990 10 141 0 10995 10 166 3 10986 10 186 9 10922 10 143 3 10995 10 166 3 10986 10 188 9 10922 10 143 3 10995 10 166 7 10990 10 188 9 10925 10 145 0 10995 10 166 7 10990 10 189 6 10982 10 145 0 10995 10 168 0 10992 10 190 3 10992 10 147 7 10960 10 168 7 10994 10 191 6 10992 10 147 7 10960 10 168 7 10994 10 191 6 10990 10 193 7 10997 10 146 4 10960 10 168 7 10996 10 193 7 10997 10 193 7 10997 10 193 7 10930 10 149 8 10966 10 172 7 10999 10 193 7 10932 10 149 8 10966 10 172 7 10999 10 193 7 10932 10 149 8 10966 10 172 7 10999 10 193 7 10932 10 149 8 10966 10 172 7 10999 10 193 7 10932 10 149 8 10966 10 172 7 10999 10 193 7 10932 10 149 8 10966 10 172 7 10997 10 193 7 10932 10 149 8 10966 10 172 7 10997 10 193 7 10932 10 149 8 10966 10 172 7 10997 10 193 7 10932 10 149 8 10966 10 172 7 10997 10 193 7 10966 10 172 7 10966 10 172 7 10966 10 172 7	10907	10		10940	10	155 2	10974	10	178 1
10910 10 134 9 10944 10 157 9 10978 10 180 2 10911 10 135 5 10946 10 157 9 10978 10 180 2 10912 10 136 2 10946 10 159 2 10913 10 136 6 10946 10 159 9 10980 10 182 2 10914 10 137 6 10948 10 160 6 10981 10 182 9 10915 10 138 2 10949 10 161 3 10982 10 183 6 10915 10 138 6 10949 10 161 3 10982 10 183 6 10916 10 138 3 10 144 2 10949 10 161 3 10982 10 183 6 10916 10 162 6 10985 10 184 2 10919 10 141 0 10952 10 163 3 10986 10 186 2 10919 10 141 0 10952 10 163 3 10986 10 186 2 10922 10 143 3 10955 10 166 3 10992 10 148 3 10922 10 143 3 10958 10 166 7 10992 10 144 3 10958 10 166 7 10992 10 145 0 10952 10 166 7 10992 10 145 0 10995 10 168 0 10995 10 168 0 10995 10 168 0 10995 10 168 0 10995 10 168 0 10995 10 168 0 10995 10 168 0 10995 10 168 0 10995 10 168 0 10995 10 168 0 10995 10 168 0 10995 10 168 0 10995 10 10958 10 167 0 10995 10 168 0 10995 10 10958 10 169 4 10995 10 10958 10 10959 10				10941	10	155 9	10975	10	178 8
10910 10 134 9 10944 10 157 9 10978 10 180 8 10911 10 135 5 10945 10 158 6 10979 10 181 5 10912 10 136 2 10946 10 159 2 10913 10 136 2 10946 10 159 2 10913 10 136 3 10946 10 159 9 10981 10 182 2 10914 10 137 6 10948 10 160 6 10981 10 182 2 10914 10 138 3 10916 10 138 3 10949 10 161 2 10962 10 183 5 10916 10 138 3 10986 10 183 6 10917 10 139 6 10949 10 161 2 10982 10 183 6 10917 10 139 6 10995 10 161 2 10985 10 185 6 10919 10 141 0 10992 10 163 3 10986 10 185 6 10919 10 141 0 10992 10 163 3 10986 10 186 2 10953 10 164 6 10987 10 186 6 10921 10 142 3 10955 10 164 6 10986 10 186 7 10922 10 143 3 10995 10 166 7 10990 10 188 9 10922 10 145 0 10995 10 166 7 10991 10 189 6 10992 10 147 7 10927 10 146 4 10960 10 168 7 10994 10 191 6 10995 10 1	10909	10	134 2	10942	10	156 5	10976	10	179 5
10911 10 135 5 10945 10 158 6 10979 10 181 5 10912 10 136 2 10946 10 159 2 10913 10 136 9 10947 10 159 9 10980 10 182 2 10914 10 137 6 10947 10 159 9 10981 10 182 9 10914 10 138 9 10915 10 138 9 10915 10 138 9 10915 10 138 9 10916 10 183 3 10916 10 183 3 10917 10 139 6 10990 10 161 3 10988 10 184 9 10918 10 140 3 10918 10 162 6 10985 10 186 9 10919 10 141 0 10952 10 163 3 10986 10 186 9 10922 10 141 6 10955 10 165 3 10986 10 186 9 10922 10 143 3 10955 10 165 3 10986 10 186 9 10922 10 143 3 10955 10 165 3 10989 10 188 9 10 188 3 10922 10 143 3 10955 10 165 3 10989 10 188 3 10922 10 143 3 10955 10 165 3 10989 10 188 3 10922 10 144 3 10958 10 166 7 10990 10 188 9 10 189 6 10922 10 145 0 10957 10 166 7 10991 10 189 6 10922 10 147 7 10960 10 168 7 10994 10 191 6 10999 10 143 3 10930 10 149 4 10966 10 177 4 10998 10 193 7 10930 10 149 4 10966 10 172 1 10999 10 193 7 10932 10 149 3 10966 10 172 7 10999 10 193 7 10932 10 149 3 10966 10 172 7 10999 10 195 0 10932 10 149 3 10966 10 172 7 10999 10 195 0 10932 10 149 3 10966 10 172 7 10999 10 195 0 10932 10 149 3 10966 10 172 7 10997 10 195 0 10998 10 149							10977	10	180 2
10912 10 136 2 10946 10 159 2 10913 10 136 9 10947 10 159 9 10980 10 182 2 10914 10 137 6 10948 10 160 6 10981 10 182 2 10915 10 138 2 10949 10 161 3 10982 10 183 5 10916 10 138 9 10981 10 138 9 10981 10 138 9 10981 10 138 9 10981 10 148 2 10917 10 141 0 10952 10 161 0 10985 10 184 2 10919 10 141 0 10952 10 162 3 10986 10 186 2 10991 10 141 0 10952 10 164 0 10987 10 186 2 10921 10 142 3 10995 10 165 3 10986 10 187 6 10921 10 142 3 10955 10 165 3 10989 10 188 3 10922 10 143 3 10955 10 165 3 10992 10 148 3 10925 10 145 0 10997 10 168 0 10922 10 143 3 10956 10 166 7 10990 10 188 9 10922 10 145 0 10997 10 168 0 10992 10 146 4 10960 10 168 7 10994 10 191 6 10929 10 147 7 10962 10 170 0 10996 10 193 7 10930 10 148 4 10960 10 170 0 10996 10 193 7 10930 10 148 4 10960 10 170 0 10996 10 193 7 10930 10 148 4 10960 10 170 0 10996 10 193 7 10930 10 148 4 10966 10 170 0 10996 10 193 7 10930 10 148 4 10966 10 172 1 10999 10 193 7 10932 10 148 3 10966 10 172 7 10997 10 193 7 10932 10 148 3 10966 10 172 7 10999 10 195 0 10932 10 149 3 10966 10 172 7 10999 10 195 0 10932 10 149 3 10966 10 172 7 10999 10 195 0 10932 10 149 3 10966 10 172 7 10999 10 195 0 10932 10 149 3 10966 10 172 7 10999 10 100							10978	10	
10913 10 136 9 10947 10 159 9 10980 10 182 2 10914 10 137 6 10948 10 160 6 10981 10 182 2 10916 10 138 3 10949 10 161 3 10982 10 183 6 10916 10 183 6 10917 10 139 6 10995 10 161 9 10985 10 184 2 10918 10 140 3 10995 10 162 6 10985 10 185 6 10919 10 141 0 10952 10 163 3 10986 10 186 2 10953 10 164 0 10987 10 186 2 10957 10 163 3 10986 10 186 2 10953 10 164 0 10987 10 186 6 10921 10 142 3 10955 10 165 3 10986 10 187 6 10922 10 143 0 10955 10 166 7 10990 10 188 9 10923 10 143 7 10957 10 166 7 10990 10 188 9 10925 10 145 0 10958 10 167 3 10991 10 189 6 10925 10 145 0 10959 10 168 7 10991 10 189 6 10992 10 147 7 10962 10 168 7 10994 10 191 6 10997 10 191 6 10907 10 191 6 10907 10907 10 191 6 10907 10907 10907 10907 10907 10907 10907 10907 10907 10907 10907 10907 10907 10907 10907 10907 10907 10907 10							10979	10	181 5
10914 10 137 6 10948 10 160 6 10981 10 182 9 10915 10 138 9 10949 10 161 3 10962 10 183 6 10916 10 138 9 10917 10 139 6 10959 10 161 3 10984 10 184 9 10917 10 141 0 10951 10 162 6 10985 10 185 6 10918 10 141 0 10952 10 163 3 10986 10 186 9 10952 10 163 3 10986 10 186 9 10952 10 163 3 10986 10 186 9 10952 10 163 3 10986 10 186 9 10952 10 165 3 10986 10 186 9 10952 10 165 3 10986 10 186 9 10952 10 165 3 10986 10 187 6 10952 10 165 3 10986 10 188 9 10 10952 10 165 3 10986 10 188 9 10 10952 10 165 3 10986 10 188 9 10 10952 10 165 3 10986 10 188 9 10 10952 10 143 7 10956 10 166 7 10990 10 188 9 10 10952 10 145 0 10958 10 166 7 10990 10 188 9 10 10952 10 145 0 10958 10 167 3 10991 10 189 6 10952 10 145 7 10958 10 167 3 10991 10 189 6 10 10958 10 167 3 10991 10 189 6 10 10958 10 167 3 10991 10 189 6 10 10958 10 167 3 10991 10 189 6 10 10958 10 167 3 10991 10 190 3 10992 10 10965 10 10962 10 170 0 10965 10 193 7 10997 10 193 7 10997 10 193 7 10997 10 193 7 10997 10 193 7 10997 10 193 7 10997 10 193 7 10993 10 149 1 10965 10 172 1 10999 10 193 0 195 0 10932 10 149 1 10965 10 172 1 10999 10 195 0 10955 10 195 0 10956 10 172 7 10997 10 193 7 10993 10 149 1 10965 10 172 1 10999 10 195 0 10956 10 172 7 10997 10 193							1		
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10916 10 138 9 10990 10 161 9 10983 10 184 2 10917 10 139 6 10991 10 162 6 10985 10 185 6 10919 10 140 3 10991 10 162 6 10985 10 185 6 10919 10 141 0 10992 10 163 3 10986 10 186 2 10953 10 164 0 10987 10 186 9 10992 10 143 3 10996 10 164 6 10987 10 186 9 10992 10 143 3 10996 10 165 3 10986 10 187 6 10992 10 143 3 10995 10 165 3 10989 10 188 3 10992 10 143 3 10995 10 166 7 10994 10 144 3 10995 10 166 7 10994 10 189 6 10992 10 145 7 10997 10 168 9 10992 10 145 0 10995 10 168 0 10992 10 189 6 10992 10 145 7 10997 10 168 0 10999 10 168 0 10999 10 168 0 10999 10 168 0 10999 10 169 10 191 6 10999 10 147 7 10996 10 190 10 191 6 10999 10 147 7 10996 10 190 10 191 6 10999 10 148 4 10999 10 149 8 10999 10 149 8 10999 10 193 7 10999 10 149 8 10999 10 193 7 10999 10 149 8 10996 10 177 4 10999 10 193 7 10930 10 149 8 10996 10 172 1 10999 10 149 8 10996 10 172 1 10999 10 193 7 10932 10 149 8 10996 10 172 7 10999 10 193 7 10932 10 149 8 10996 10 172 7 10999 10 193 7 10932 10 149 8 10996 10 172 7 10999 10 195 0									
10917 10 139 6 10950 10 161 9 10984 10 184 9 10918 10 140 3 10991 10 162 6 10985 10 185 6 10991 10 141 0 10952 10 163 3 10986 10 186 6 10992 10 141 6 10995 10 164 6 10987 10 186 9 10921 10 142 3 10995 10 165 3 10988 10 187 6 10922 10 143 3 10995 10 165 3 10988 10 188 3 10922 10 143 7 10995 10 166 7 10990 10 188 9 10922 10 143 7 10995 10 166 7 10990 10 188 9 10925 10 145 7 10995 10 168 0 10995 10 190 3 10995 10 169 4 10992 10 145 7 10997 10 146 4 10996 10 168 7 10994 10 191 6 10998 10 147 7 10996 10 169 4 10996 10 193 7 10993 10 193 7 10930 10 148 4 10960 10 177 7 10997 10 193 7 10931 10 148 4 10960 10 177 7 10997 10 193 7 10932 10 149 8 10966 10 172 7 10999 10 195 0 10932 10 149 8 10966 10 172 7 10999 10 195 0 10993 10 195 0				10949	10	161 3			
10918 10 140 3 10951 10 162 6 10985 10 185 6 10919 10 141 0 10952 10 163 3 10986 10 186 2 10952 10 163 3 10986 10 186 2 10952 10 164 0 10987 10 186 9 10953 10 164 0 10987 10 186 9 10952 10 164 0 10986 10 187 6 10952 10 143 0 10955 10 166 0 10923 10 143 7 10957 10 166 7 10990 10 188 9 10952 10 144 3 10958 10 167 3 10991 10 189 6 10952 10 145 0 10959 10 168 0 10952 10 165 0 10959 10 168 0 10952 10 165 0 10959 10 168 0 10952 10 165 0 10959 10 168 0 10959 10 168 0 10959 10 168 0 10959 10 168 0 10959 10 168 0 10959 10 168 0 10959 10 169 0 1095 10 195 0 10959 10 165 0 10959 10 165 0 10959 10 165 0 10959 10 165 0 10959 10 165 0 10959 10 195 0 10950 1								-	
10919 10 141 0 10952 10 163 3 10986 10 186 2 10953 10 164 0 10987 10 186 9 10952 10 164 0 10987 10 186 9 10952 10 164 0 10987 10 186 9 10952 10 144 3 10955 10 166 7 10999 10 188 3 10922 10 143 0 10956 10 166 7 10999 10 188 9 10923 10 143 7 10957 10 166 7 10990 10 188 9 10925 10 145 0 10958 10 167 3 10991 10 189 6 10952 10 145 0 10958 10 167 3 10991 10 189 6 10952 10 145 0 10958 10 167 3 10991 10 189 6 10952 10 145 0 10958 10 168 0 10992 10 190 3 10991 10 190 1									
10920 10 141 6 10953 10 164 0 19987 10 186 9 10921 10 142 3 10955 10 165 3 10989 10 188 3 10922 10 143 0 10955 10 165 3 10989 10 188 3 10922 10 143 7 10956 10 166 7 10990 10 188 9 10925 10 145 7 10924 10 144 3 10958 10 167 3 10991 10 189 6 10925 10 145 0 10959 10 168 0 10925 10 145 0 10959 10 168 0 10929 10 190 3 10 191 0 10927 10 146 4 10960 10 168 7 10994 10 191 6 10928 10 147 0 10960 10 168 7 10994 10 191 6 10928 10 147 0 10960 10 168 7 10995 10 192 3 10930 10 148 4 10960 10 169 4 10995 10 193 0 10963 10 170 7 10997 10 193 7 10930 10 148 4 10966 10 171 4 10998 10 194 3 10931 10 149 8 10966 10 172 7 10999 10 195 0									
10920 10 141 6 10954 10 164 6 10986 10 187 6 10921 10 142 3 10955 10 165 3 10989 10 188 3 10922 10 143 7 10956 10 166 0 10923 10 143 7 10957 10 166 7 10990 10 188 9 10924 10 144 3 10958 10 167 3 10991 10 188 6 10925 10 145 0 10959 10 168 0 10992 10 190 3 10992 10 190 3 10926 10 145 7 10927 10 146 4 10960 10 168 7 10994 10 191 6 10928 10 147 0 10961 10 168 7 10994 10 191 6 10928 10 147 0 10961 10 168 7 10994 10 191 6 10992 10 147 7 10996 10 170 0 10996 10 193 0 10993 10 191 0 10963 10 170 0 10996 10 193 0 10963 10 170 0 10996 10 193 0 10963 10 170 1 10997 10 193 7 10930 10 148 4 10966 10 172 1 10999 10 195 0 10932 10 149 8 10966 10 172 7	10919	10	141 0						
10921 10 142 3 10955 10 165 3 10989 10 188 3 10922 10 143 0 10956 10 166 0 10950 10 188 9 100923 10 143 7 10957 10 166 7 10990 10 188 9 10924 10 144 3 10958 10 167 3 10991 10 189 6 10925 10 145 0 10958 10 167 3 10991 10 189 6 10925 10 145 0 10958 10 168 0 10992 10 190 3 10992 10 190 3 10992 10 190 3 10992 10 190 3 10992 10 190 3 10992 10 190 3 10992 10 190 3 10992 10 191 0 191 6 10992 10 147 7 10962 10 170 0 10996 10 193 0 10999 10 148 4 10994 10 191 0 193 0 10999 10 149 1 10995 10 193 0 10930 10 149 1 10965 10 172 1 10998 10 194 3 10931 10 149 1 10965 10 172 7 10999 10 195 0 195 0		_							
10922 10 143 0 10996 10 166 0 10990 10 188 9 10923 10 143 7 10997 10 166 7 10990 10 188 9 10924 10 144 3 10995 10 167 3 10991 10 189 6 10925 10 145 0 10999 10 168 0 10992 10 190 3 10996 10 145 7 10927 10 146 4 10960 10 168 7 10994 10 191 6 10928 10 147 0 10961 10 169 4 10995 10 193 0 1093 10 191 0 1093 10 193 0 1093 10 191 0 1093 10 193 0 1093 10 194 3 10931 10 148 4 10964 10 171 4 10998 10 193 0 10931 10 149 1 10996 10 172 1 10999 10 193 0 10932 10 149 8 10996 10 172 7									
10923 10 143 7 10957 10 166 7 10990 10 188 9 10924 10 144 3 10958 10 167 3 10991 10 189 6 10925 10 145 0 10959 10 168 0 10992 10 190 3 10992 10 145 7 10997 10 146 4 10960 10 168 7 10994 10 191 6 10928 10 147 0 10961 10 169 4 10995 10 192 3 10929 10 147 0 10961 10 169 4 10995 10 193 0 10962 10 170 0 10996 10 193 0 10963 10 170 7 10997 10 193 7 10930 10 148 4 10964 10 171 4 10998 10 194 3 10931 10 149 1 10965 10 172 1 10999 10 195 0 10932 10 149 8 10966 10 172 7	_						10989	10	188 3
10924 10 144 3 10958 10 167 3 19991 10 189 6 10952 10 145 0 10959 10 168 0 10992 10 190 3 10992 10 190 3 10992 10 190 3 10992 10 190 3 10992 10 190 3 10992 10 190 3 10992 10 190 3 10992 10 190 10992 10 190 10 190 10992 10 190 10992 10 190 10992 10 190 10992 10 190 10992 10 190 10992 10 190 10992 10 190 10992 10 190 10992 10 190 10992 10 190 10992 10 190 10992 10 190 10992 10 190 10992 10 190 10992 10 190 10992 10 190 1090 10							ì		
10925 10 145 0 10959 10 168 0 10992 10 190 3 10926 10 145 7 10927 10 146 4 10960 10 168 7 10994 10 191 0 10928 10 147 7 10962 10 170 0 10996 10 193 0 10999 10 147 7 10962 10 170 0 10996 10 193 0 10930 10 148 4 10996 10 170 7 10997 10 193 7 10931 10 149 4 10964 10 171 4 10998 10 194 3 10931 10 149 1 10965 10 172 7 10999 10 195 0 10932 10 149 8 10966 10 172 7									
10926 10 145 7 10927 10 146 4 10960 10 168 7 10994 10 191 6 10928 10 147 0 10961 10 169 4 10929 10 147 7 10962 10 170 0 10996 10 193 0 10930 10 148 4 10964 10 171 4 10998 10 193 7 10931 10 149 1 10965 10 172 1 10998 10 194 3 10932 10 149 8 10966 10 172 7									
10927 10 146 4 10960 10 168 7 10994 10 191 6 10982 10 147 0 10961 10 169 4 10995 10 192 3 10929 10 147 7 10962 10 170 0 10996 10 193 0 10930 10 148 4 10994 10 171 4 10998 10 194 3 10931 10 149 1 10965 10 172 1 10997 10 195 0 1093 10 149 8 10966 10 172 7		-		10959	10	168 0			
10928 10 147 0 10961 10 169 4 10995 10 192 3 10929 10 147 7 10962 10 170 0 10996 10 193 0 10963 10 170 7 10997 10 193 7 10930 10 148 4 10964 10 171 4 10998 10 194 3 10931 10 149 1 10965 10 172 1 10999 10 195 0 10932 10 149 8 10996 10 172 7									
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10930 10 148 4 10964 10 171 4 10998 10 194 3 10931 10 149 1 10965 10 172 1 10999 10 195 0 10932 10 149 8 10966 10 172 7	10929	10	147 7						
10931 10 149 1 10965 10 172 1 10999 10 195 0 10932 10 149 8 10966 10 172 7					-				
10932 10 149 8 10966 10 172 7									
							10999	10	195 0
- iusis iu 190 4 [10967 îu 173 4 [11000 10 195 7									
1	109.33	10	100 4	10967	10	173 4	111000	10	195 /

Use check point at 10800 Kc

Frequency: 11000-11100 Kc

Freq.	A	В	Freq.	A	В	Freq.	Α	В
11000	10	195 7	11034	10	218 7	11068	10	241 6
11001	10	196 4	11035	10	219 3	11069	10	242 3
11002	10	197 1	11036	10	220 0			
11003	10	197 7	11037	10	220 7	11070	10	243 0
11004	10	198 4	11038	10	221 4	11071	10	243 6
11005	10	199 1	11039	10	222 0	11072	10	244 3
11006	10	199 8				11073	10	245 0
11007	,10	200 4	11040	10	222 7	11074	10	245 7
11008	10	201 1	11041	10	223 4	11075	10	246 4
11009	10	201 8	11042	10	224 1	11076	10	247 0
			11043	10	224 7	11077	10	247 7
11010	10	202 5	11044	10	225 4	11078	10	248 4
11011	10	203 1	11045	10	226 1	11079	10	249 1
11012	10	203 8	11046	10	226 8			
11013	10	204 5	11047	10	227 4	11080	10	249 7
11014	10	205 2	11048	10	228 1	11081	10	250 4
11015	10	205 8	11049	10	228 8	11082	10	251 1
11016	10	206 5	ĺ			11063	10	251 8
11017	10	207 2	11050	10	229 5	11084	10	252 5
11018	10	207 9	11051	10	230 1	11085	10	253 1
11019	10	208 5	11052	10	230 8	11086	10	253 8
			11053	10	231 5	11087	10	254 5
11020	10	209 2	11054	10	232 2	11088	10	255 2
11021	10	209 9	11055	10	232 8	11089	10	255 9
11022	10	210 6	11056	10	233 5			
11023	10	211 2	11057	10	234 2	11090	10	256 5
11024	10	211 9	11058	10	234 9	11091	10	257 2
11025	10	212 6	11059	10	235 5	11092	10	257 9
11026	10	213 3	l .	_		11093	10	258 6
11027	10	213 9	11060	10	236 2	11094	10	259 2
11028	10	214 6	11061	10	236 9	11095	10	259 9
11029	10	215 3	11862	10	237 6	11096	10	260 6
			11063	10	238 2	11097	10	261 3
11030	10	216 0	11064	10	238 9	11098	10	262 0
11031	10	216 6	11065	10	239 6	11099	10	262 6
11032	10	217 3	11066	10	240 3	l		
11033	10	218 0	11067	10	240.9	11100	10	263 3
	_		Щ			L		

Use check point at 10800 or 11250 Kc, whichever is nearer

Frequency: 11100—11200 Kc

Freq.	A	В	Freq.	A	В	Freq.	A	В
11100	10	263 3	11134	10	286 3	11168	10	309 3
11101	10	264 0	11135	10	287 0	11169	10	310 0
11102	10	264 7	11136	10	287 7			
11103	10	265.4	11137	10	288 4	11170	10	310 7
11104	10	266 0	11138	10	289 0	11171	10	311 4
11105	10	266 7	11139	10	289 7	11172	10	312 1
11106	10	267 4				11173	10	312 7
11107	10	268 1	11140	10	290 4	11174	10	313 4
11108	10	268 7	11141	10	291 1	11175	10	314 1
11109	10	269 4	11142	10	291 7	11176	10	314.8
			11143	10	292 4	11177	10	315 4
11110	10	270 1	11144	10	293 1	11178	10	316 1
11111	10	270 8	11145	10	293 8	11179	10	316 8
11112	10	271 5	11146	10	294 4			
11113	10	272 1	11147	10	295 1	11180	10	317 5
11114	10	272 B	11148	10	295 8	11181	10	318 2
11115	10	273 5	11149	10	296 5	11182	10	318 8
11116	10	274 2				11183	10	319 5
11117	10	274 9	11150	10	297 1	11184	10	320 2
11118	10	275 5	11151	10	297 8	11185	10	320 9
11119	10	276 2	11152	10	298 5	11186	10	321 6
	_		11153	10	299 2	11187	10	322 2
11120	10	276 9	11154	10	299 B	11188	10	322 9
11121	10	277 6	11155	10	300 5	11189	10	323 6
11122	10	278 2	11156	10	301 2			
11123	10	278 9	11157	10	301 9	11190	10	324 3
11124	10	279 6	11158	10	302 5	11191	10	325 0
11125	10	280 3	11159	10	303 2	11192	10	325 6
11126	10	280 9				11193	10	326 3
11127	10	281 6	11160	10	303 9	11194	10	327 0
11128	10	282 3	11161	10	304 6	11195	10	327 7
11129	10	283 0	11162	10	305 3	11196	10	328 4
11120			11163	10	305 9	11197	10	329 0
11130	10	28. 6	11164	10	306 6	11198	10	329 7
11131	10	284 3	11165	10	307 3	11199	10	330 4
11132	10	285 0	11166	10	308 0			
11133	10	285 7	11167	10	308 7	11200	10	331 1
						L		

Use check point at 11250 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

Frequency:	11200-113	00 Kc

freq.	A	В	Freq.	$\overline{}$	В	Freq.	A	В			
11200	10	331 1	11234	10	354 2	11268	10	377.3			
11201	10	331 8	11235	10	354 9	11269	10	378 0			
11202	10	332 4	11236	10	355 6						
11203	10	333 1	11237	10	356 3	11270	10	378 7			
11204	10	333 8	11238	10	357 0	11271	10	379 4			
11205	10	334 5	11239	10	357 7	11272	10	380 1			
11206	10	335 2				11273	10	380.7			
11207	10	335 8	11240	10	358 3	11274	10	381 4			
11208	10	336 5	11241	10	359 O	11275	10	382 1			
11209	10	337 2	11242	10	359 7	11276	10	382 8			
			11243	10	360 4	11277	10	383 4			
11210	10	337 9	11244	10	361 1	11278	10	384 1			
11211	10	338 6	11245	10	361 7	11279	10	384 8			
11212	10	339 2	11246	10	362 4						
11213	10	339 9	11247	10	363 1	11280	10	385 5			
11214	10	340 6	11248	10	363 B	11281	10	386 1			
11215	10	341 3	11249	10	364.5	11282	10	386.8			
11216	10	342 0				11283	10	387 5			
11217	10	342 7	11250	10	365.2	11284	10	388 2			
11218	10	343.3	11251	10	365 B	11285	10	388 8			
11219	10	344 0	11252	10	366 5	11286	10	389 5			
			11253	10	367 2	11287	10	390 2			
11220	10	344 7	11254	10	367 9	11288	10	390.9			
11221	10	345 4	11255	10	368 5	11289	10	391.6			
11222	10	346 1	11256	10	369 2	1					
11223	10	346 7	11257	10	369 9	11290	10	392 2			
11224	10	347 4	11258	10	370.6	11291	10	392 9			
11225	10	348 1	11259	10	371 3	11292	10	393 6			
11226	10	348 8	ı			11293	10	394 3			
11227	10	349 5	11260	10	371 9	11294	10	394 9			
11228	10	350 2	11261	10	372 6	11295	10	395 6			
11229	10	350 8	11262	10	373 3	11296	10	396 3			
			11263	10	374 0	11297	10	397 0			
11230	10	351.5	11264	10	374 6	11298	10	397.7			
11231	10	352.2	11265	10	375 3	11299	10	398.4			
11232	10	352 9	11266	10	376 0	I					
11233	10	353 6	11267	10	376 7	11300	10	399 0			
		_	∟_			<u> </u>					

Use check point at 11250 Kc

Frequency: 11300--11400 Kc

Frequency: 1130011400 Kc											
Freq.	A	В	Freq.	A	В	Freq.	A	В			
11300	10	399 0	11334	10	422 3	11368	10	445 6			
11301	10	399 7	11335	10	423 0	11369	10	446 3			
11302	10	400 4	11336	10	423.6						
11303	10	401 1	11337	10	424 3	11370	10	446 9			
11304	10	401 8	11338	10	425 0	11371	10	447 6			
11305	10	402 5	11339	10	425.7	11372	10	44B 3			
11306	10	403 1				11373	10	449 0			
11307	10	403 B	11340	10	426 4	11374	10	449 7			
11308	10	404 5	11341	10	427 1	11375	10	450 4			
11309	10	405 2	11342	10	427 7	11376	10	451 1			
			11343	10	428 4	11377	10	451 7			
11310	10	405 9	11344	10	429 1	11378	10	452 4			
11311	10	406 6	11345	10	429 8	11379	10	453 1			
11312	10	407 2	11346	10	430 5						
11313	10	407 9	11347	10	431 2	11380	10	453 8			
11314	10	408 6	11348	10	431 9	11381	10	454 5			
11315	10	409 3	11349	10	432 5	11382	10	455 2			
11316	10	410 0	l			11383	10	455 9			
11317	10	410 7	11350	‡0	433 2	11384	10	456 5			
11318	10	411 3	11351	10	433 9	11385	10	457 2			
11319	10	412 0	11352	10	434 6	11386	10	457 9			
			11353	10	435 3	11387	10	458 6			
11320	10	412 7	11354	10	436 0	11388	10	459 3			
11321	10	413 4	11355	10	436 7	11389	10	460 0			
11322	10	414 1	11356	10	437 3)					
11323	10	414 8	11357	10	438 0	11390	10	460 6			
11324	10	415 4	11358	10	438 7	11391	10	461 3			
11325	10	416 1	11359	10	439 4	11392	10	462 0			
11326	10	416 8	1			11393	10	462 7			
11327	10	417 5	11360	10	440 î	11394	10	463 4			
11328	10	418 2	11361	10	440 B	11395	10	464 0			
11329	10	418 9	11362	10	441 5	11396	10				
			11363	10	442 1	11397	10	465 4			
11330	10	419 5	11364	10	442 8	11398	10	466 1			
11331	10	420 2	11365	10	443 5	11399	10	466 7			
11332			11366		444 2	I					
11333	10	421 6	11367	10	444 9	11400	10	467 4			
11333	10	421 6	11367	10	444 9	11400	10	467			

Use check point at 11250 Kc

Frequency: 11400-11500 Kc

Freq.	A	В	Freq.	Α	В	Freq.	Α	В
11400	10	467 4	11434	10	490 6	11468	10	514 1
11401	10	468 1	11435	10	491 3	11469	10	514 8
11402	10	468 8	11436	10	492 0			
11403	10	469 5	11437	10	492 7	11470	10	515 5
11404	10	470 1	11438	10	493 3	11471	10	516 2
11405	10	470 8	11439	10	494 0	11472	10	516 8
11406	10	471 5				11473	10	517 5
11407	10	472 2	11440	10	494 7	11474	10	518 2
11408	10	472 9	11441	10	495 4	11475	10	518 9
11409	10	473 5	11442	10	496 1	11476	10	519 6
			11443	10	496 8	11477	10	520 3
11410	10	474 2	11444	10	497 5	11478	10	521 0
11411	10	474 9	11445	10	498 2	11479	10	521 7
11412	10	475 6	11446	10	498 9		. •	
11413	10	476 3	11447	10	499 6	11480	10	522 3
11414	10	476 9	11448	10	500 3	11481	10	523 0
11415	10	477 6	11449	10	501 0	11482	10	523 7
11416	10	478 3				11483	10	524 4
11417	10	479 0	11450	10	501 6	11484	10	525 1
11418	10	479 7	11451	10	502 3	11485	10	525 8
11419	10	480 3	11452	10	503 0	11486	10	526 4
			11453	10	503 7	11487	10	527 1
11420	10	481 0	11454	10	504 4	11488	10	527 B
11421	10	481 7	11455	10	505 1	11489	10	528 5
11422	10	482 4	11456	10	505 8			
11423	10	483 1	11457	10	506 5	11490	10	529 2
11424	10	483 7	11458	10	507 2	11491	10	529 9
11425	10	484 4	11459	10	507 9	11492	10	530 6
11426	10	485 1	1			11493	10	531 2
11427	10	485 B	11460	10	508 6	11494	10	531 9
11428	10	486 5	11461	10	509 2	11495	10	532 6
11429	10	487 1	11462	10	509 9	11496	10	533 3
			11463	10	510 6	11497	10	534 0
11430	10	487 8	11464	10	511 3	11498	10	534 7
11431	10	488 5	11465	10	512 0	11499	10	535 3
11432	10	489 2	11466	10	512 7	t		
11433	10	489 9	11467	10	513 4	11500	10	536.0

Use check point at 11250 or 11700 Ke, whichever is nearer

Frequency: 11500—11600 Kc

Freq.	A	B	Freq.	A	В	Freq.	A	B
11500	10	536 O	11534	10	559 3	11568	10	582 6
11501	10	536 7	11535	10	560 O	11569	10	583 3
11502	10	537 4	11536	10	560 7			
11503	10	538 1	11537	10	561 4	11570	10	584 0
11504	10	538 8	11538	10	562 1	11571	10	584 7
11505	10	539 5	11539	10	562 7	11572	10	585 4
11506	10	540 1	ľ			11573	10	586 1
11507	10	540 B	11540	10	563 4	11574	10	5(68
11508	10	541 5	11541	10	564 1	11575	10	587 5
11509	10	542 2	11542	10	564 8	11576	10	588 2
			11543	10	565 5	11577	10	588 8
11510	10	542 9	11544	10	566 2	11578	10	589 5
11511	10	543 6	11545	10	566 9	11579	10	590 2
11512	10	544 2	11546	10	567 5			
11513	10	544 9	11547	10	568 2	11580	10	590 9
11514	10	545 6	11548	10	568 9	11581	10	591 6
11515	10	546 3	11549	10	569 6	11582	10	592 3
11516	10	547 0				11583	10	593 0
11517	10	547 7	11550	10	570 3	11584	10	593 7
11518	10	548 3	11551	10	571 0	11585	10	594 4
11519	10	549 0	11552	10	571 7	11586	10	595 0
			11553	10	572 3	11587	10	595 7
11520	10	549 7	11554	10	573 0	11588	10	596 4
11521	10	550 4	11555	10	573 7	11589	10	597 1
11522	10	551 1	11556	10	574 4	ŀ		
11523	10	551 B	11557	10	575 1	11590	10	597 B
11524	10	552 5	11558	10	575 B	11591	10	598 5
11525	10	553 t	11559	10	576 5	11592	10	599 2
11526	10	553 8				11593	10	599 9
11527	10	554 5	11560	10	577 1	11594	10	600 6
11528	10	555 2	11561	10	577 8	11595	10	601 2
11529	10	555 9	11562	10	578 5	11596	10	601 9
			11563	10	579 2	11597	10	602 6
11530	10	556 6	11564	10	579 9	11598	10	603 3
11531	10	557 3	11565	10	580 6	11599	10	604 0
11532	10	557 9	11566	10	581 3	١	_	
11533	10	558 6	11567	10	582 O	11600	10	604 7

Use check point at 11700 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

Frequency: 11600—11700 Kc												
Freq.	A	В	Freq.	A	В	Freq.	Α	В				
11600	10	604 7	11634	10	628 1	11668	10	651 4				
11601	10	605 4	11635	10	628 8	11669	10	652 1				
11602	10	606 1	11636	10	629 4	ļ						
11603	10	606 B	11637	10	630 1	11670	10	652 B				
11604	10	607 4	11638	10	630 8	11671	10	653 5				
11605	10	608 1	11639	10	631 5	11672	10	654 2				
11606	10	608 8	l			11673	10	654 9				
11607	10	609 5	11540	10	632 2	11574	10	655 6				
116C8	10	610 2	11641	10	632 9	11675	10	656 2				
11609	10	610 9	11642	10	633 6	11676	10	656 9				
			11643	10	634 3	11677	10	657 6				
11610	10	611 6	11644	10	634 9	1167B	10	658 3				
11611	10	612 3	11645	10	635 6	11679	10	659 O				
11612	10	612 9	11646	10	636 3	l .						
11613	10	613 6	11647	10	637 0	11680	10	659 7				
11614	10	614 3	11648	10	637 7	11591	10	660 4				
11615	10	615 0	11649	10	638 4	11682	10	661 1				
11616	10	615 7	ì			11683	10	661 7				
11617	10	616 4	11650	10	639 1	11684	10	662 4				
11618	10	617 1	11651	10	639 8	11685	10	663 1				
11619	10	617 8	11652	10	640 4	11686	10	663 E				
			11653	10	641 1	11687	10	664 5				
11620	10	618 4	11654	10	641 8	11688	10	665 2				
11621	10	619 1	11655	10	642 5	11689	10	665 9				
11622	10	619.8	11656	10	643 2							
11623	10	620 5	11657	10	643 9	11690	10	666 €				
11624	10	621 2	11658	10	644 6	11691	10	667 2				
11625	10	621 9	11659	10	645 2	11692	10	667 9				
11626	10	622 6				11693	10	668 6				
11627	10	623 3	11660	10	645 9	11694	10	669 3				
11628	10	623 9	11661	10	646 6	11695	10	670 (
11629	10	624 6	11662	10	647 3	11696	10	670 7				
			11663	10	648 0	11697	10	671 4				
11630	10	625 3	11664	10	648 7	11698	10	672 (
11631	10	626 0	11665	10	649 4	11699	10	672				
11632	10	626 7	11666	10	650 1							
11633	10	627 4	11667	10	650 7	11700	10	673.4				

Use check point at 11700 Kc

Frequency: 11700—11800 Kc

Freq.	۸	В	Freq.	۸	В	Freq.	A	В
11700	10	673.4	11734	10	696 7	11768	10	720 1
11701	10	674 1	11735	10	697 4	11769	10	720 8
11702	10	674 8	11736	10	698 1			
11703	10	675 5	11737	10	698 B	11770	10	721 5
11704	10	676 2	11738	10	699 4	11771	10	722 2
11705	10	676 B	11739	10	700 1	11772	10	722 9
11706	10	677 5				11773	10	723 5
11707	10	678 2	11740	10	700 8	11774	10	724 2
11708	10	67B 9	11741	10	701 5	11775	10	724 9
11709	10	679 6	11742	10	702 2	11776	10	725 6
			11743	10	702 9	11777	10	726 3
11710	10	680 3	11744	10	703 6	11778	10	727 O
11711	10	681 0	11745	10	704 2	11779	10	727 7
11712	10	681 6	11746	10	704 9	l		
11713	10	682 3	11747	10	705 6	11780	10	728 4
11714	10	683 0	11748	10	706 3	11781	10	729 1
11715	10	683 7	11749	10	707 0	11782	10	729 7
11716	10	684 4	l			11783	10	730 4
11717	10	685 0	11750	10	707 7	11784	10	731 1
11718	10	685 8	11751	10	708 4	11785	10	731 8
11719	10	686 4	11752	10	709 1	11786	10	732 5
			11753	10	709 8	11787	10	733 2
11720	10	687 1	11754	10	710 4	11788	10	733 9
11721	10	687 8	11755	10	711 1	11789	10	734 6
11722	10	688 5	11756	10	711 8			
11723	10	689 2	11757	10	712 5	11790	10	735 3
11724	10	689 9	11758	10	713 2	11791	10	735 9
11725	10	690 5	11759	10	713 9	11792	10	736 6
11726 11727	10	691 2				11793	10	737 3
11727		691 9	11760	10	714 6	11794	10	738 0
11728	10 10	692 6	11761	10	715 3	11795	10	738 7
11/29	10	693 3	11762	10 10	716 0 716 6	11796	10	739 4
11730	10	694 O	11764	10	715 6	11797	10	740 0 740 7
11730	10	694 7	11765	10	718 0	11798	10	741 4
11731	10	695 3	11766	10		111/99	30	/4) 4
11733	10	696 0	11767	10	718 7 719 4	11800	10	340 1
11133	10	030 0	111/0/	10	/19 4	111800	10	742 1
			Į.			ı		

Use check point at 11700 Kc

Freq. A B Freq. A B Freq. A B 1800 10 742 1 11834 10 765 3 11868 10 788

Freq.	A	В	Freq.	A	В	Freq.	Α	В
11800	10	742 1	11834	10	765 3	11868	10	788 6
11801	10	742 8	11835	10	766 0	11869	10	789 3
11802	10	743 4	11836	10	766 6			
11803	10	744 1	11837	10	767 3	11870	10	790 0
11804	10	744 8	11838	10	768 0	11871	10	790 7
11805	10	745 5	11839	10	768 7	11872	10	791 4
11806	10	746 2	l			11873	10	792 1
11807	10	746 9	11840	10	769 4	11874	10	792 7
11808	10	747 5	11841	10	770 1	11875	10	793 4
11809	10	748 2	11842	10	779 8	11876	10	794 1
			11843	10	771 5	11877	10	794 8
11810	10	748 9	11844	10	772 1	11878	10	795 5
11811	10	749 6	11845	10	772 8	11879	10	796 2
11812	10	750 3	11846	10	773 5			
11813	10	751 0	11847	10	774 2	11880	10	796 9
11814	10	751 6	11848	10	774 9	11831	10	797 6
11815	10	752 3	11849	10	775 6	11882	10	798 2
11816	10	753 0	l			11883	10	798 9
11817	10	753 7	11850	10	776 3	11884	10	799 6
11818	10	754 4	11851	10	776 9	11885	10	800 3
11819	10	755 0	11852	10	777 6	11886	10	801 0
			11853	10	778 3	11887	10	801 7
11820	10	755 7	11854	10	779 Q	11888	10	802 4
11821	10	756 4	11855	10	779 7	11889	10	803 1
11823	10	757 1	11856	10	780.4	l		
11824		757 8	11857	10	781 1	11890	10	603 B
11825	10 10	758.5	11858	10	781 8	11891	10	804 5
11826	10	759 1 759 8	11859	10	782 4	11892	10	805 ?
11827	10	760 5				11893	10	805 8
11828	10	761 2	11860	10	783 1	11894	10	806 5
11829	10	761 9	11861	10	783 8	11895	10	807.2
11029	10	101 9	11862	10	784 5	11896	10	807.9
11830	10	762 5	11863	10	785 2	11897	10	808 6
11831	10	763 2	11864	10	785 9	11898	10	809 3
11832	10	763 9	11865	10	786 6	11899	10	810 0
11833	10	763 9 764 6	11866	10	787 2	١		
, , , 33	,,,	704 6	1 ''95/	10	787.9	11900	10	810 7
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Use check point at 13700 Kc

Frequency: 11900—12000 Kc

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Freq.	A	В	Freq.	A	В	freq.	Α	В
11900	10	810 7	11934	10	834 1	11968	10	857 4
11901	10	811 4	11935	10	834 8	11969	10	858 1
11902	10	812 1	11936	10	835 5			
11903	10	812 8	11937	10	836 2	11970	10	858 8
11904	10	B13 4	11938	10	836 9	11971	10	859 4
11905	10	814 1	11939	10	837 5	11972	10	860 1
11906	10	814 8	ľ			11973	10	860 B
11907	10	815 5	11940	10	838 2	11974	10	861 5
11908	10	816 2	11941	10	838 9	11975	10	862 1
11909	10	816 9	11942	10	839 6	11976	10	862 8
			11943	10	840 3	11977	10	863 5
11910	10	817 6	11944	10	841 0	11978	10	864 2
11911	10	818 3	11945	10	841 6	11979	10	864 8
11912	10	819 0	11946	10	842 3	i		
11913	10	819 7	11947	10	843 0	11980	10	865 5
11914	10	820 4	11948	10	843 7	11981	10	866 2
11915	10	821 1	11949	10	844 4	11982	10	866 9
11916	10	821 7	i			11983	10	867 5
11917	10	822 4	11950	10	845 1	11984	10	868 2
11918	10	823 1	11951	10	845 B	11985	10	868 9
11919	10	823 8	11952	10	846 4	11986	10	869 6
4			11953	10	847 1	11987	10	870 2
11920	10	824 5	11954	10	847 B	11988	10	870 9
11921	10	825 2	11955	10	848 5	11989	10	871 6
11922	10	825 9	11956	10 10	849 2 849 9	11990	10	872 3
11923 11924	10	826 6 827 3	11958	10	850 5	11990	10	872 9
11925	10	828 0	11959	10	851 2	11992	10	873 6
11925	10	828 G	11909	10	031 2	11992	10	974 3
11927	10	829 3	11960	10	851 9	11994	10	875 0
11928	10	830 0	11961	10	852 6	11995	10	875 6
11929	10	830 7	11962	10	853 3	11996	10	876 3
11323	,,,	0.00 /	11963	10	854 0	11997	10	877 0
11930	10	831 4	11964	10	854 7	11998	10	877 7
11931	10	832 1	11965	10	855 3	11999	10	878 3
11932	10	832 B	11966	10	856 0	'''		05
11933	10	833 4	11967	10	856 7	12000	10	879 0
11000		- T	1	,,,	300 /	,		3.30
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Use check point at 11700 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

Frequency: 12000—12100 Kc						Fraque	ncy: 1	220	10-12	300 Ka	:					
	В	Freq.		В	Freq.		В	Freq.	A	В	Freq.	A	В	Freq.	A	
11	100.1	12034	11	121 1		11	142 1	12200	11	222 9	12234	11	243.8	12268	11	
11	100 8	12035	11	121 7		11	142 7	12201	11	223 6	12235	11	244 4	12269	11	
		12036		122.3	12009	"	142 /	12202	11	224.2	12236	11	245 0			
	101 4		11	123 0	12070		142.2	12203	11	224 8	12237	11	245 6	12270	11	
	102 6					11	143 3	12204	11	225.4	12238	11	246 2	12271	11	
- 11		12038	11	123 6		11	143 9	12205	11	226 0	12239	11	246.8	12272	11	
11	163 2	12039	11	124 2		11	144 5	12206	11	226 6	,			12273	11	
11	103 8					11	145 1	12207	11	227 2	12240	11	247 4	12274	11	
11	104 5	12040	11	124 8		11	145 7	12208	11	227 8		11	248 1	12275	11	
11		12041	11	125 4	12075	11	146 4	12209			12242	11	248.7	12276	11	
11	105.7	12042	11	126 0	12076	11	147 0		• • •		12243	11	249.3	12277	11	
		12043	11	126.7	12077	11	147 6	12210	11	229 1	12244	11	249 9	12278	11	
1 11		12044	11	127 3	12078	11	148.2	12211				11	250.5	12279	-11	
- 11	106 9	12045	11	127 9	12079	11	148 8	12212		230 3	12246	11	251 1	'	•••	
11	107 5	12046	11	128 5				12213			12247		251.7	12280	11	
11	108 2	12047	11	129 1	12080	11	149 4	12214			12248	11	252 4	12281	11	
11	108 8	12048	11	129 7	12081	11	150 0	12215				11	253 0	12282		
11	109 4	12049	11	130 4	12082	31	150 6	12216			12293	, ,	200 0		11	
11	110 0	1			12083	11	151 3							12283	11	
7 11	110 6	12050	11	131 0	12084	11	151 9	12217			12250	11	253.6	12284	11	
3 11	111 2	12051	11	131 6	12085	11	152 5	12218			12251	11	254 2	12285	11	
9 11	111 9	12052	11	132 2	12086	11	153 1	12219	11	234 6	12252	11	254 8	12286	11	
		12053	11	132 8	12087	-11	153.7	****			12253	11	255 4	12287	11	
11	112 5	12054	11	133 4	12068	11	154 3	12220			12254	11	256 0	12288	11	
1 11	113 1	12055	11	134 1	12089	11	154 9	12221			12255	11	256 7	12289	11	
2 11	113 7	12056	11	134 7				12222			12256	11	257.3	1		
3 11	114 3	12057	11	135 3	12090	11	155 6	12223			12257	11	257 9	12290		
4 11				135 9	12091	11	156 2	12224			12258	11	258 5	12291	11	
5 11					12092			12225			12259	11	259 1	12292		
6 11					12093	11		12226						12293		
7 11		12060	11	137 1	12094	11	158 (12227			12250		259 7	12294		
B 11				137 8	12095	11	158 (12228			12261	11	260 3	12295		
9 11					12096			12229	11	240.7	12262	- 11	261.0	12296		
- ''		12063		139 0	12097						12263		261 6	12297		
n 11	118 6							12230	3 11	241 3	12264	11	262.2	12298	11	
								12231	1 11	241 9	12265	11	262 8	12299	11	
					1 ,2033	• • •	.01.	1223	2 11	242.5	12266	11	263 4	1		
					12100	- 11	161	1223	3 11	243.2	12267	11	264 0	12300	11	
0 11 1 11 2 11 3 11	1	19 3 19 9	18 6 12064 19 3 12065 19 9 12066	18 6 12064 11 19 3 12065 11 19 9 12066 11	18 6 12064 11 139 6 19 3 12065 11 140 2 19 9 12066 11 140 8	18 6 12064 11 139 6 12098 19 3 12065 11 140 2 12099 19 9 12066 11 140 8	18 6 12064 11 139 6 12098 11 19 3 12065 11 140 2 12099 11 19 9 12066 11 140 8	18 6 12064 11 139 6 12098 11 160 5 19 3 12065 11 140 2 12099 11 161 1 19 9 12066 11 140 8	18 6 12064 11 139 6 12098 11 160 5 1223 19 3 12065 11 140 2 12099 11 161.1 1223 19 9 12066 11 140 8 140 8 140 8	18 6 12064 11 139 6 12098 11 160 5 12230 11 19 3 12065 11 140 2 12099 11 161 1 12232 11 19 9 12066 11 140 8 12332 11 12332	18 6 12064 11 139 6 12098 11 160 5 12230 11 241 9 19 3 12065 11 140 2 12099 11 161.1 12231 11 241 9 19 9 12066 11 140 8 12232 11 242 5 20 5 12067 11 141 4 12100 11 161 7 12233 11 243 2	18 6 12064 11 139 6 12098 11 160 5 12230 11 241 3 12265 19 3 12065 11 140 2 12099 11 161.1 12231 11 241 9 12265 19 9 12066 11 140 8 12232 11 242 5 12265 20 5 12067 11 141 4 12100 11 161 7 12233 11 243.2 12267	18 6 12064 11 139 6 12098 11 160 5 12230 11 241 3 12264 11 19 3 12065 11 140 8 12231 11 241 9 12265 11 19 9 12066 11 140 8 12232 11 242 5 12266 11 20 5 12067 11 141 4 12100 11 161 7 12233 11 243.2 12267 11	18 6 12064 11 139 6 12098 11 160 5 12230 11 241 3 12264 11 262 2 19 3 12065 11 140 2 12231 11 241 9 12265 11 262 8 19 9 12066 11 140 8 12232 11 242 5 12265 11 262 8 20 5 12067 11 141 4 12100 11 161 7 12233 11 243 2 12267 11 264 0	18 6 12064 11 139 6 12098 11 160 5 12230 11 241 3 12264 11 262 2 12298 19 3 12065 11 140 2 12209 11 161.1 12232 11 241 9 12265 11 262 8 12299 19 9 12066 11 140 8 12232 11 242 5 12267 11 263 4 10 2323 13 144 2 12267 13 264 0 12208 1 264 0 12208 1 264 0 12208 1 264 0 12208 1 264 0 12208 1 264 0 12208 1 264 0 12208 1 264 0 12208 1 264 0 12208 1 264 0 12208 1 264 0 12208 1 264 0 12208 1 264 0 12208 1 264 0 12208 1 264 0 12208 1 264 0 12208 1 264 0 12	18 6 12064 11 139 6 12098 11 160 5 12230 11 241 3 12264 11 262 2 12298 11 19 3 12065 11 140 2 12099 11 161.1 12231 11 241 9 12265 11 262 8 12269 11 19 9 12066 11 140 8 1200 11 161 7 12233 11 243.2 12267 11 264 0 12300 11 20 5 12067 11 141 4 12100 11 161 7 12233 11 243.2 12267 11 264 0 12300 11

Use check point at 12000 Ks.

Frequency: 12100-12200 Kc

Freq.	A	В	Freq.	Α	В	Freq.	A	В
12100	11	161 7	12134	11	182 5	12168	11	203 4
12101	11	162 3	12135	11	183 2	12169	11	204 0
12102	11	162.9	12136	11	183 8			
12103	11	163.5	12137	11	184 4	12170	11	204 6
12104	11	164 2	12138	11	185 0	12171	11	205.2
12105	11	164 8	12139	11	185 6	12172	11	205 8
12106	11	165 4				12173	11	206.4
12107	11	166 0	12140	11	186 2	12174	11	207.0
12108	11	166 6	12141	11	186 8	12175	11	207.5
12109	11	167 2	12142	11	187 4	12176	11	208 3
			12143	11	188 1	12177	11	208 9
12110	11	167 8	12144	11	188 7	12178	11	209 5
12111	11	168 5	12145	11	189 3	12179	11	210.1
12112	11	169 1	12146	11	189 9			
12113	11	169 7	12147	11	190 5	12180	11	210 7
12114	11	170.3	12148	11	191 1	12181	11	211 3
12115	11	170 9	12149	11	191 7	12182	11	211 9
12116	11	171.5				12183	11	212 5
12117	11	172 1	12150	11	192 3	12184	11	213 1
12118	11	172 8	12151	11	193 0	12185	11	213 8
12119	11	173 4	12152	11	193 6	12186	11	214 4
			12153	11	194 2	12187	11	215 0
12120	11	174 0	12154	11	194 8	12188	11	215.6
12121	11	174 6	12155	11	195 4	12189	11	216 2
12122	11	175.2	12156	11	196 0	1		
12123	11	175 8	12157	11	196 6	12190	11	216 8
12124	11	176 4	12158	11	197 2	12191	11	217 4
12125	11	177 0	12159	11	197 8	12192	11	218.0
12126	11	177.7	l			12193	11	218 7
12127	11	178 3	12160	11	198 5	12194	11	219 3
12128	11	178 9	12161	11	199.1	12195	11	219.9
12129	11	179 5	12162	11	199 7	12196	11	220 5
			12163	-11	200 3	12197	11	221 1
12130	11	180 1	12164	11	200 9	12198	11	221 7
12131	-11	180 7	12165	-11	201.5	12199	11	222 3
12132	11	181 3	12166	11	202 1	Į.		
12133	11	181 9	12167	11	202 7	12200	11	222 9

Use check point at 12000 Kc

Freq.	A	В	Freq.	Ā	В	Freq.	A	В
12300	11	284 3	12334	11	305 2	12368	11	326.2
12301	11	284 9	12335	11	305 8	12369	11	326 8
12302	11	285 5	12336	11	306 5			
12303	11	286.1	12337	11	307.1	12370	11	327.4
12304	11	286 8	12338	11	307 7	12371	11	328 (
12305	11	287 4	12339	11	308 3	12372	11	328
12306	11	288 0	[12373	11	329
12307	11	288 6	12340	11	308.9	12374	11	329
12308	11	289 2	12341	11	309.5	12375	11	330
12309	11	289 8	12342	11	310.2	12376	11	331
			12343	11	310.8	12377	11	331
12310	11	290.5	12344	11	311 4	12378	11	332
12311	11	291 1	12345	11	312.0	12379	11	332 .
12312	11	291 7	12346	11	312 6			
12313	11	292 3	12347	11	313.2	12380	11	333
12314	11	292 9	12348	11	313 9	12381	11	334
12315	11	293.5	12349	11	314.5	12382	11	334
12316	11	294.2	ľ			12383	11	335
12317	11	294.8	12350	11	315.1	12384	11	336 (
12318	11	295.4	12351	11	315.7	12385	11	336 (
12319	11	296.0	12352	11	316.3	12386	11	337
			12353	11	316 9	12387	11	337 8
12320	11	296 6	12354	11	317 5	12388	11	338
12321	11	297.2	12355	11	318 2	12389	11	339 1
12322	11	297 8	12356	11	318 8			
12323	11	298 5	12357	11	319 4	12390	11	339
12324	11	299 1	12358	11	320 0	12391	11	340
12325	11	299 7	12359	11	320 6	12392	11	340 9
12326	11	300 3				12393	11	341 5
12327	11	300.9	12360	11	321 2	12394	11	342.2
12328	11	301 5	12361	11	321 9	12395	11	342 (
12329	11	302 2	12362	11	322 5	12396	11	343
			12363	11	323.1	12397	11	344 (
12330	11	302 8	12364	11	323.7	12398	11	344 (
12331	11	303 4	12365	11	324.3	12399	11	345
12332	11	304.0	12366	11	324 9			
12333	11	304 6	12367	11	325.5	12400	11	345 8

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

	- 1	Freque	ncy: 1	240	12:	100 Kc			Frequency: 12600-12700 Kc				:				
теа.	A	В	Freq.	A	В	Freq.	Α	В	Freq	. ^	В	Freq.	Α	В	Freq.	_	_
2400	11	345 8	12434	11	366 8	12468	11	387 7	1260		469.6	12634	11	490 6	12668	11	
2401	11	346 5	12435	11	367 4	12469	11	388 3	1260	11	470 2	12635	11	491 2	12669	11	
2402	11	347 1	12435	11	368 0				1260	2 11	470 8	12636	11	491 9	'	• • •	
12403	11	347 7	12437	11	368 6	12470	11	388 9	1260	3 11	471 4	12637	11	492 5	12670	11	
12404	11	348 3	12438	11	269 2	12471	11	389.5	1260	11	472 1	12638	11	493 1	12671	11	
12405	11	348 9	12439	11	369 8	12472	11	390.1	1260	5 11	472 7	12639	11	493 7	12672	11	
12406	11	349 5	1			12473	11	390.8	1260	5 11	473 3				12673	11	
12407	11	350 1	12440	11	370 4	12474	11	391.4	1260	11	473 9	12640	11	494 3	12674	11	
12408	11	350.8	12441	11	371 1	12475	11	392.0	1260	3 11	474 5	12641	11	495 0	12675	11	
12409	11	351 4	12442	11	371 7	12476	11	392 6	1260	11	475 2	12642	11	495.6	12676	11	
			12443	11	372 3	12477	11	393 2				12643	11	496 2	12677	11	
12410	11	352.0	12444	11	372 9	12478	11	393 8	12610	11	475 8	12644	11	496 8	12678	11	
12411	11	352 6	12445	11	373 5	12479	11	394.4	1261	11	476 4	12645	11	497 4	12679	11	
12412	11	353 2	12446	11	374 1				12612	11	477 0	12646	11	498 1			
12413	11	353 B	12447	11	374 8	12480	-11	395 1	12613	11	477 6	12647	11	498.7	12680	11	
12414	11	354.5	12448	11	375 4	12481	-11	395 7	1261	- 11	478 2	12648	11	499.3	12681	11	
12415	11	355 1	12449	11	376 0	12482	-11	396.3	12619	11	478 9	12649	11	499 9	12682	11	
12416	11	355 7	1			12483	11	396 9	12610	11	479 5				12683	11	
12417	11	356 3	12450	11	376 6	12484	11	397 5	1261	11	480 1	12650	11	500 5	12684	11	
12418	11	356 9	12451	11	377 2	12485	11	398 2	12618	3 11	480 7	12651	11	501 1	12685	11	
12419	11	357.5	12452	-11	377 B	12486	11	398 8	1261	11	481 3	12652	11	501.8	12€86	11	
			12453	11	378 4	12487	-11	399 4				12653	11	502 4	12687	11	
12420	11	358 1	12454	11	379 1	12488	11	400 0	12620	11	482 0	12654	11	503 0	12688	-11	
12421	-11	358 8	12455	-11	379 7	12489	11	400.7	1262	11	482 6	12655	11	503 6	12689	11	
12422	-11	359 4	12456	11	3 8 0 3	1			1262	11	483 2	12656	11	504 2		• • •	
12423	11	360 0	12457	11	380 9	12490	11	401 3	12623	11	483 8	12657	11	504 9	12690	11	
12424	-11	360 6	12458	11	381 5	12491	11	401 9	12624	11	484 4	12656	11	505 5	12691	11	
12425	-11	361 2	12459	11	382 1	12492	11	402 5	12629	11	485 1	12659	11	506 1	12692	11	
12426	11	361 8				12493	11	403 1	12626	11	485 7				12693	11	
12427	11	362 4	12460	11	382 8	12494	11	403 8	12627	11	486 3	12660	11	506 7	12694	11	
12428	11	363 1	12461	11	383 4	12495	11	404 4	12626	11	486 9	12661	11	507 3	12695	11	
12429	-11	363 7	12462	11	384 0	12496	11	405 0	12629	11	487.5	12662	11	508 0	12696	11	
			12463	11	384 6	12497	11	405 6				12663	11	508 6	12697	11	
12430	11	364 3	12464	11	385 2	12498	11	406 2	12630	11	488 2	12664	11	509 2	12698	11	
12431	-11	364 9	12465	11	385 8	12499	11	406 9	12631	11	488 8	12665	11	509 8	12699	11	
12432	11	365 5	12466	-11	386 4	I			1263		489 4	12666	11	510 5		• •	
12433	11	366 1	12467	11	387 1	12500	11	407 5	12633		490 0	12667	11	511.1	12700		

Use check point at 12600 Kc

Frequency: 12500-12600 Kc

Use check point at 12600 Kc

_								
Freq.	A	В	Freq.	A	В	Freq.	A	В
12500	11	407 5	12534	11	428 6	12568	11	449 7
12501	11	408 1	12535	11	429 2	12569	11	450.3
12502	11	408 7	12536	11	429 9			
12503	11	409 4	12537	11	430 5	12570	11	451 0
12504	11	410 0	12538	11	431 1	12571	11	451 6
12505	11	410 6	12539	11	431 7	12572	11	452 2
12506	11	411 2				12573	11	452 B
12507	11	411 B	12540	11	432 3	12574	11	453 4
12508	11	412 5	12541	11	433 0	12575	11	454 1
12509	11	413 1	12542	11	433 6	12576	11	454 7
			12543	11	434 2	12577	11	455 3
12510	11	413.7	12544	11	434 8	12578	11	455 9
12511	11	414 3	12545	11	435 4	12579	11	456 5
12512	11	414 9	12546	11	436 1	l		
12513	11	415 6	12547	11	436 7	12580	11	457 2
12514	11	416 2	12548	11	437 3	12581	* *	457 8
12515	11	416 B	12549	11	437 9	12582	11	458 4
12516	11	417 4	l			12583	11	459 0
12517	11	418 0	12550	11	438 5	12584	11	459 6
12518	11	418 7	12551	11	439 2	12585	11	460 3
12519	11	419 3	12552	11	439 B	12586	11	460 9
			12553	11	440 4	12587	11	461 5
12520	11	419 9	12554	11	441 0	12588	11	462 1
12521	11	420 5	12555	11	441 7	12589	11	462 8
12522	11	421 2	12556	11	442 3	ļ		
12523	11	421 B	12557	11	442 9	12590	11	463 4
12524	11	422 4	12558	11	443 5	12591	11	464
12525	11	423 0	12559	11	444 1	12592	11	464 6
12526	11	423 6	ì			12593	11	465 2
12527	11	424 3	12560	11	444 8	12594	11	465 9
12528	11	424 9	12561	11	445 4	12595	11	466
12529	11	425 5	12562	11	446 0	12596	11	467
			12563	11	446 6	12597	-11	467
12530	11	426 1	12564	11	447 2	125€8	11	4EB :
12531	11	426 7	12565	11	447 9	12599	11	469 (
12532	11	427 4	12566	11	448 5	1		
12533	11	428 0	12567	11	449.1	12000	11	469.

Use check point at 12600 Kc

Freq.	_A	B	Freq.	A	В	Freq.	A	В
12700	11	531 7	12734	11	552 8	12768	11	574.0
12701	11	532 3	12735	11	553 4	12769	11	574 6
12702	11	532 9	12736	11	554 1			
12703	11	533 5	12737	11	554 7	12770	11	575.2
12704	11	534.1	12738	11	556 3	12771	11	575.8
12705	11	534 8	12739	11	555 9	12772	11	576.4
12706	11	535 4	l			12773	11	577.1
12707	11	536.0	12740	11	556 6	12774	11	577.7
12708	11	536.6	12741	11	557 2	12775	11	578.3
12709	11	537 3	12742	11	557 8	12776	11	578 9
			12743	11	558 4	12777	11	579 6
12710	11	537 9	12744	11	559 0	12778	11	580 2
12711	11	538 5	12745	11	559 7	12779	11	580 6
12712	11	539 1	12746	11	560 3	ł		
12713	11	539 8	12747	11	560 9	12780	11	581 4
12714	11	540 4	12748	11	561 5	12781	11	582 0
12715	11	541 0	12749	11	562 1	12782	11	582 7
12716	11	541 6	1			12783	11	583 3
12717	11	542 3	12750	11	562 8	12784	11	583 9
12718	11	542 9	12751	11	563 4	12785	. 1	584.5
12719	11	543 5	12752	11	564 0	12786	1	585.2
			12753	11	564 6	12787	11	585 8
12720	11	544.1	12754	11	565 3	12788	11	586 4
12721	11	544 7	12755	11	565 9	12789	11	587 0
12722	11	545 4	12756	11	566 5			
12723	11	546 0	12757	11	567 1	12790	11	587 7
12724	11	546 6	12758	11	567.7	12791	11	588 3
12725	11	547 2	12759	11	568 4	12792	11	588 9
12726	11	547 9				12793	11	589 5
12727	11	548.5	12760	11	569 0	12794	11	590 2
12728	11	549.1	12761	11	569 6	12795	11	590 8
12729	11	549.7	12762	11	570 2	12796	11	591 4
			12763	11	570 9	12797	11	592 0
12730	11	550 3	12764	11	571.5	12798	11	592 6
12731	11	551 0	12765	11	572.1	12799	11	593 3
12732	11	551 6	12766	11	572 7			
12733	11	552 2	12767	11	573.3	12800	11	593.9

Use check point at 12600 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A ART-13 OR T-47 ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

	Frequency: 12800-12900 Kc								Freque	ncy: 1	300	0-13	100 Kc	:				
Freq.	A	В	Freq.	A	В	Freq.	Α	13	Freq.	Α	В	Freq.	Α	В	Freq.	A	В	_
12800	11	593 9	12834	11	615 1	12868	11	636	13000	11	718 5	13034	11	739 7	13068	11	761 (0
12801	11	594 5	12835	11	615 7	12869	11	636 9	13001	11	719 1	13035	11	740 4	13069	11	761	6
12802	11	595 1	12836	11	616 3	Į .			13002	11	719 8	13036	11	741 0	1			
12803	11	595 8	12837	11	617 0	12870	11	637	13003	11	720 4	13037	11	741 6	13070	11	762	2
12804	11	596 4	12838	11	617 6	12871	11	638 3	13004	11	721 0	13038	11	742 2	13071	11	762	8
12805	11	597 Q	12839	11	618 2	12872	11	638 8	13005	11	721 6	13039	11	742 8	13072	11	763	5
12806	11	597 6	1			12873	11	639	13006	11	722 3	1			13073	11	764	1
12807	11	598 3	12840	11	618 B	12874	11	640 (13007	11	722 9	13040	11	743 5	13074	11	764	7
12808	11	598 9	12841	11	619 5	12875	11	640	13008	11	723 5	13041	11	744 1	13075	11	765	3
12809	11	599 5	12842	11	620 1	12876	11	641	13009	11	724 1	13042	11	744 7	13076	11	766	0
			12843	11	620 7	12877	11	641 5				13043	11	745 3	13077	11	766	6
12810	11	600.1	12844	11	621 3	12878	11	642	13010	11	724 7	13044	11	746 0	13078	11	767	2
12811	11	600 8	12845	11	622 0	12879	11	643	13011	11	725 4	13045	11	746 6	13079	11	767	В
12812	11	601 4	12846	11	622 6	l			13012	11	726 0	13046	11	747 2	l			
12813	11	602 0	12847	11	623 2	12880	11	643	13013	11	726 6	13047	11	747 8	13080	11	768	5
12814	11	602 6	12848	3.1	623 8	12881	11	644	13014	11	727 2	13048	11	748 5	13081	11	769	ι
12815	11	603 2	12849	11	624 5	12882	11	645	13015	11	727 9	13049	11	749 1	13082	11	769	7
12816	11	603 9				12883	11	645	13016	11	728 5	ľ			13083	11	770	3
12817	11	604 5	12850	11	625 1	12884	11	646	13017	11	729 t	13050	11	749 7	13084	11	770 9	9
12818	11	605 1	12851	11	625 7	12885	11	546	13018	11	729 7	13051	11	750 3	13085	11	771	6
12819	11	605 7	12852	11	626 3	12886	11	647	13019	11	730 4	13052	11	751 0	13086	11	772	2
			12853	11	626 9	12887	11	648				13053	11	751 6	13087	11	772	В
12820	11	606 4	12854	11	627 6	12888	11	648	13020	11	731 0	13054	11	752 2	13088	11	773	4
12821	11	607 0	12855	11	628 2	12889	11	649	13021	11	731 6	13055	11	752 8	13089	11	774	0
12822	11	607 6	12856	11	628 8	ĺ			13022	11	732 2	13056	11	753 5				
12823	11	508 2	12857	11	629 4	12890	11	650	13023	11	732 9	13057	11	754 1	13090	11	774	7
12824	11	608 9	12858	11	630 1	12891	11	650	13024	11	733 5	13058	11	754 7	13091	11	775	3
12825	11	609 5	12859	11	630 7	12892	11	651	13025	11	734 1	13059	11	755 3	13092	11	775	9
12826	11	610 1	l			12893	11	651 1	13026	11	734 7				13093	11	776	5
12827	11	610 7	12860	11	631 3	12894	11	652	13027	11	735 4	13060	11	756 0	13094	11	777	1
12828	11	611 4	12861	11	631 9	12895	11	653	13028	11	736 0	13061	11	756 6	13095	11	777	8
12829	11	612 0	12862	11	632 6	12896	11	653	13029	11	736 6	13062	11	757 2	13096	11	778	4
			12863	11	633 2	12897	11	654				13063	11	757 B	13097	11	779	0
12830	11	612 6	12864	11	633 B	12898	11	655	13030	11	737 2	13064	11	758 5	13098	11	779 (6
12831	11	613 2	12865	11	634 4	12899	11	655	13031	11	737 9	13065	11	759 1	13099	11	780 2	
12832	11	613 9	12866	11	635 0	l			13032	11	738 5	13066	11	759 7				
12833	11	614 5	12867	11	635 7	12900	11	656	13033	11	739 1	13067	11	760 3	13100	11	780 9	9
		Use	check p	oint	et 1260	0 Kc			- <u></u> -		Use	check p	pint	at 1320	D Kc			_

Frequency: 1290	0-13000 Kc
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Freq.	A	В	Freq.	A	В	Freq.	А	В
12900	• •	656 2	12934	11	677 4	12968	11	698 6
12901	11	656 9	2935	17	678 0	12969	11	699 2
12902	11	657 5	12936	17	678 6	.2303	• •	000 L
12903	11	658 1	12937	1.	679 3	12970	11	699 8
12904	11	658 7	2938	11	679 9	12971	11	700 4
12905	11	659 4	. 2630	1.	680 5	12972	1.	701 1
12906	11	660 0				12974	11	701 7
12907	11	660 6	12940	1 *	68' 1	12974	3.1	702 3
12908	11	661.2	12941	11	681.8	12975	ŧ.	702 9
12009	1.	661.8	12042	1,	682 4	2976	11	703 6
		0.01	12943	١.	683.0	12977	11	704-2
12910	- 1	662.5	12944	11	683-6	12978	11	704 8
1001	11	$F_iF_i \subseteq \mathbb{R}$	12945	1.	684-2	12979	11	705 4
1,202	- 1	663.7	2046	11	684.9			
1.2913	1.1	€6 4 3	12947	11	685 5	12980	11	705 0
2014		665_0	1.2948	٠,	1 389	12981	1	706 7
0.05	: •	665 6	1,2549	1 '	686.7	12982	1.	707 3
1,300,0	1.	666 P				12983	1.1	707 9
1,3017	1.	666 8	12950	1.	687 4	12984	٠,	708 5
12018	٠.	667 4	12951	٠,	688 u	12895	1.1	709 2
15649	• ;	668 1	12952	• •	688 6	12586	11	709 8
			12953	1.	689-2	12987	1.	710 4
12920	1:	568.7	12954	• •	689-8	12988	1,	711 0
1,2921	1.	660-4	17955	٠,	590 5	21.83	٠,	711 7
12922	1.	669-9	12956	1.	60°			
1,8923	ι.	670-6	12957	* 1	691 T	2000	٠,	712 3
12024		671.2	12958	+ -	692 .	15001	٠,	712.9
1,74.25	*:	671 b	2000	• •	593-0	17992	1.	713 5
50,50	٠,	672 4				1,2993	1.	714 2
15655	٠,	673 u	12956	• ;	590.6	12994	17	714 8
Caris	1.1	67 5 7	1:0	• 1	€)! \$ 1.1	12995	1.	715 4
10.50	• •	674 -	216.2	٠,	004-8	-500g	٠,	(
			2,200	٠:	1205	2006	' '	716 6
3.2950	• •	674 9	1,2504	٠:	656-3	2508	٠,	717 3
2.51	• •	675.5	P.P. (5)	1.	1.05	12999	1.3	717 9
1,895,8	1 '	676.2	10000	١.	1747 3	1		
* ** * 1	1 -	4,7, 5,	.4457	• •	100,700	- 2000	٠,	714 8

Use check point at 13200 Kc

Frequency: 13100-13200 Kc

Freq.	A	В	Freq.	A	В	Freq.	A	В
13100	11	780 9	13134	11	802 0	13168	13	823 1
13101	11	781 5	13:35	11	802 6	13169	11	823 7
13102	11	782 1	13136	11	803 2			
13103	11	782 7	13137	11	803 8	13170	11	824 3
13104	11	783 3	13138	11	804 4	13171	11	825 0
13105	11	784 0	13139	11	805 1	13172	11	825 6
13106	11	784 6				13173	11	826 2
13107	11	785 2	13140	11	805 7	13174	11	826 B
13108	11	785 8	13141	11	806 3	13175	11	827 5
13109	11	786 4	13142	11	806 9	13176	11	828 1
			13143	11	807 5	13177	11	828 7
13110	11	787 1	13144	11	808 2	13178	11	829 3
13111	1.	787 7	13145	11	808 8	13179	11	829 9
13112	11	788 3	13146	11	809 4			
13113	11	788 9	13147	11	810 0	13180	11	830 6
13114	11	789 6	13148	11	810 7	f3181	11	831 2
13115	11	790-2	13149	11	811.3	13182	11	831 B
13.16	11	790 8				13183	11	832 4
13117	11	791 4	13150	11	811.9	13184	11	833 0
13118	11	792 0	13151	1.	812 5	13185	11	833 7
13119	11	792 7	13152	11	813 1	13186	11	834 3
			13153	11	813 8	13187	11	834 9
13120	11	793 3	13154	11	814 4	13188	11	835 5
13121	11	793 9	*3155	-11	815 0	13189	11	B36 2
13122	11	794 5	1.3156	11	815 6			
13123	11	795 1	13157	11	816 3	13190	1.7	836 8
13124	11	795 B	13158	11	816.9	13.9.	- 1	8.37 4
13125	11	796 4	13159	11	817.5	13.92	1.	838 0
13126	11	797 0				13193	1,	838 6
13127	11	797 6	13160	11	8.8	13194	11	839 3
13128	11	798 2	*3161	11	818 7	13195	:1	839 9
13129	11	798 9	13162	11	819 4	13196	11	840.5
			*3163	11	820 0	13197	11	841 1
13130	11	799 5	13164	1.1	820 6	13198	11	841 8
13131	11	800 1	13165	11	821 2	13199	11	842 4
13132	• •	800.7	13:66	1.	821.9	ì		
13133	1.1	801. 3	13167	1.1	822.5	13200	11	843.0

Use check point at 13200 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

	Frequency: 13200-13300 Kc									ı	Freque	ncy: 1	340	13:	500 Kc	;		
Freq.	A	В	Frey.	A	В	Freq.	A	В	Freq		A	В	Frey.	Α	В	Freq.	A	
13200	11	843.0	13234	11	864 0	13268	13	885 1	1340			966.6	13434		987.6	13468	11	10
13201	11	843 6	13235	11	864 7	13269	11	885 7	1340	1	11	967.3	13435	11	988.2	13469	11	10
13202	11	844 2	13236	11	865 3				1340	2	11	967.9	13436	11	988.8			
13203	11	844 9	13237	11	865 9	13270	11	886 3	1340			968.5	13437		989.4	13470	11	10
13204	11	845 5	13238	11	866 5	13271	11	886 9	1340			969.1	13438		990.0	13471		10
13205	11	846 1	13239	11	867 1	13272	11	887 5	1340	5	11	969.7	13439	11	990.6	13472	11	10
13206	11	846 7	•			13273	11	888 2	1340			970.3				13473		10
13207	11	847 3	13240	11	867 7	13274	11	888 6	1340	7	11	970.9	13440	11	991.2	13474	11	10
13208	11	848 0	13241	11	868 4	13275	11	889 4	1340			971.6	13441		991.9	13475		_
13209	11	848 6	13242	11	869 0	13276	11	890 0	1340	9	11	972.2	13442		992 5	13476	11	10
			13243	11	869 6	13277	11	890 6					13443		993.1	13477		
13210	11	849 2		11	870 2	13278	11	891 3	1341	0	11	972.8	13444		993.7	13478		
13211	11	849 8	13245	11	870 8	13279	11	891 9	1341			973.4	13445		994.3	13479		
13212	11	850 4	13246	11	871 5	l			1341	2	11	974.0	13446	11	994.9	l		
13213	11	851 0	13247	11	872 1	13280	11	892 5	1341	3	11	974.6	13447	11	995.6	13480	11	10
13214	11	851 7	13248	11	872 7	13281	11	B93 1	1341			975.3	13448	11	996.2	13481	11	10
13215	11	852 3	13249	11	873 3	13282	11	893 7	1341			975.9	13449		996.8	13482		10
13216	11	852 9				13283	11	894 3	1341			976.5	10110	• • •		13483		-
13217	11	853 5	13250	11	873 9	13284	11		1341			977.1	13450	11	997.4	13484		_
13218	11	854 1	13251	11	874 6	13285	11	895 6	1341			977.7	13451		998.0	13485		10
13219		854 8	13252	11		13286	11		1341	_		978.3	13452		998.6	13486		
			13253	11		13287	11			-			13453		999.3	13487		
13220	11	855 4	13254	11	876 4	13288	11	897 4	1342	0	11	978.9	13454		999.9	13488		
13221	11	856 0	13255	11		13289	11		1342			979.6	13455		1000.5	13489		
13222	11	856 6	13256	11					1342			980.2	13456		1001.1	1		
13223		857 2	13257	11	878 3	13290	11	898 7	1342			980.8			1001.7	13490	11	10
13224		857 8	13258	11		13291	11		1349			981.4	13458		1002.3	13491		
13225		858 5	13259	11		13292	11		1342			982.0			1003.0	13492		
13226	11	859 1		•		13293	11		1349			982.6	1.5.05			13493		
13227		859 7	13260	11	880 1	13294	11		1349			983.2	13460	11	1003.6	13494		
13228		860 3	13261	11	880 7	13295	11		1349			983.9			1004.2	13495		
13229		860 9	13262	11	881 4	13296	11		134			984.5			1004.8	13496		
			13263	11		13297	11		,,,				13463			13497		
13230	11	861 6	13264	11		13298	11		134	30	11	985.1	13464			13498		
13231	11	862 2	13265	11		13299		-	134			985.7	13465			13499		
13232		862 8	13266	11	883 8		••	-5. -	134			986.3	13466					
13233		863 4	13267	11	884 5	13300	11	904 9	134			986.9	13467				11	11
. 02.00	.,	203 4	1 '525'		J. J	"	,,	30. 3	137		• •	300.3	1 '3'0'	• •	.005	1,550		

Use check point at 13200 Kc

Use check point at 13200 Kc

Freq.	Α	n 1	Ç	Λ	В	E	_	В
Freq. 13300		B 904 9	Freq. 13334	A 11	925 9	Freq. 13368	A 11	946 9
13300	11	905 5	13335	11				
					926 5	13369	11	947 5
13302	11	906 1	13336	11	927 1			
13303	11	906 7	13337	11	927 8	13370	11	948 2
13304	11	907 3	13338	11	928 4	13371	11	948 8 949 4
13305 13306	11	908 0 908 6	13339	11	929 0	13372	11	950 0
13300	11	909 2	13340	11	929 6	13374	11	950 6
13307	11	209 8	13340	11	929 0	13374	11	951 2
13309	11	910 4	13341	11	930 8	13375	11	951 9
13309	.,	3/0 4	13343	11	931 5	13377	11	952 5
13310	11	911 1	13344	11	937 1	13377	11	953 1
13311	11	911 7	13345	11	932 7	13379	11	953 7
13312	11	912.3	13346	11	933 3	,,,,,	• •	505 /
13313	11	312.9	13347	11	933 9	13380	11	954 3
13314	11	913.5	13348	11	934 6	13381	11	955 0
13315	13	914 3	13349	11	935 2	13382	11	955 6
13316	11	914 8	10010		555 2	13383	11	856 2
13117	11	915 4	13350	11	935 8	13384	11	956 8
13318	11	916 0	13351	11	936 4	13385	11	957 4
13319	11	916 6	13352	11	937 0	13386	11	958 0
			13353	11	937 6	13387	11	958 6
13320	11	917.2	13354	11	938 3	13388	11	959 3
13321	11	917.9	13355	11	938 9	13389	11	959 9
13322	11	918.5	13356	11	939 5			
13323	11	919 1	13357	11	940 1	13390	11	960 5
13324	11	919.7	13358	11	940 7	13391	11	961 1
13325	1.1	920 3	13359	11	941 4	13392	11	961 7
13326	11	921 0	ļ			13393	-11	962 3
13327	11	921 6	13360	11	942 0	13394	11	963 (
13328	1.1	922 2	13361	11	947 6	13395	1.1	963 6
13329	11	922.8	13362	3.1	943.2	13396	11	964 2
			13363	11	943 B	13397	11	964 8
13330	11	923.4	13364	11	944 4	13398	, ;	965 4
13331	11	924 0	13365	11	945 1	13399	11	966 (
13332	11	924 7	13366	11	945 7			
13333	11	925.3	13367	11	946 3	13400	-11	966 €

Use check point at 13200 Kc

Freq.	Α	В	Freq.	Α	В	Frey.	A	В
			13534	11	1049.2	13568	11	1070.1
13500	11	1028.3	13535	11	1049.8	13569	11	1070.B
13501	11	1028.9	13536	11	1050.5	13303	• •	10.0.0
13502	11	1029.5	13537	11	1051.1	13570	11	1071.4
13503	11	1030.1	13538	11	1051.7	13571	11	1072.0
13504	11	1030.7 1031.3	13539	11	1052.3	13572	11	1072.6
13505 13506	11	1031.3	13003	•	1032.0	13573	11	1073.2
	31	1032.6	13540	11	1052.9	13574	11	1073.8
13507 13508	11	1032.6	13541	11	1053.5	13575	11	1074.4
13509	11	1033.2	13542	11	1054.2	13576	11	1075.0
13303	* 1	1033.0	13543	11	1054.8	13577	11	1075.6
13510	11	1034.4	13544	11	1055.4	13578	11	1076.3
13511	11	1035.0	13545	11	1056.0	13579	11	1076.9
13512	11	1035.7	13546	11	1056.6			
13513	11	1036.3	13547	11	1057.2	13580	11	1077.5
13514	11	1036.9	13548	11	1057.9	13581	11	1078.1
13515	11	1037.5	13549	11	1058.5	13582	11	10:8
13516	11	1038.1				13583	11	1079.3
13517	11	1038.7	13550	11	1059.1	13584	11	1079.9
13518	11	1039.4	13551	11	1059.7	13585	11	1080.5
13519	11	1040.0	13552	11	1060.3	13586	11	1081.
			13553	11	1060 9	13587	11	1081.
13520	11	1040.6	13554	11	1061.6	13588	11	1082.
13521	11	1041.2	13555	11	1062.2	13589	11	1083.0
13522	11	1041.8	13556	11	1062.8			
13523	11	1042.4	13557	11	1063.4	13590	11	1083.0
13524	11	1043.1	13558	11	1064.0	13591	11	1084
13525	11	1043.7	13559	11	1064.6	13592	11	1084.
13526	11	1044.3				13593	11	1085.
13527	11	1044.9	13560	11	1065.3	13594	11	1086.0
13528	11	1045.5	13561	11	1065.9	13595	11	1086.0
13529	11	1046 1	13562	11	1066 5	13596	11	1087.
			13563	11	1067.1	13597	11	1087.
13530	11	1046.8	13564	11	1067.7	13598	11	1088.
13531	11	1047.4	13565	11	1068.3	13599	11	1089.
13532	11	1048.0	1 3566	11	1068.9	l .		
13533	11	1048.6	13567	11	1069.5	13600	11	1089.

Use check point at 13800 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

Frequency:	13600-1	3700	V.
rieuventy:	13000-	13/UU	R.C

13639 11 1113.5

13640 11 1114 1 13641 11 1114.8 13642 11 1115.4 13643 11 1116.0 13644 11 1116.6

13645 11 1117.2 13646 11 1117.8

13647 11 1118.4 13648 11 1119.0

13649 11 1119.6

13650 11 1120.3 13651 11 1120.9 13652 11 1121.5 13653 11 1122.7 13655 11 1122.7

13656 11 1123.9 13657 11 1124.5 13658 11 1125.2 13659 11 1125.8

13660 11 1126.4 13661 11 1127.0

13662 11 1127.6 13663 11 1128.2

13664 11 1128.8 13665 11 1129.4

13666 11 1130.0 13667 11 1130.7

Freq. A B 13600 11 1089.7 13601 11 1090.3 13602

13605 11 1092.7 13606 11 1093.4 13607 11 1094.0

13608 11 1094.6 13609 11 1095.2

13610 11 1095.8 13611 11 1096.4 13612 11 1097.0

13613 11 1097.6

3614 11 1098.2 13615 11 1098.9

13616 11 1099.5

13617 11 1100.1 13618 11 1100.7 13619 11 1101.3

13620 11 11019 13621 11 1102.5 13622 11 1103.1

13623 11 1103.7

13624 11 1104.4 13625 11 1105.0 13626 11 1105.6

13627 11 1106.2 13628 11 1106.8

13629 11 1107.4

13630 11 1108 0

13632 11 1108.6 13632 11 1109.2 13633 11 1109.9

13604

1090.0 13603 11 1091.5 Freq. A B | Freq. A B | 13634 | 11 | 1110.5 | 13668 | 11 | 1131.3 | 13635 | 11 | 11111 | 13636 | 11 | 11112.3 | 13670 | 11 | 1132.5 | 13638 | 11 | 1112.9 | 13671 | 11 | 1133.1 |

13670 11 1132.5 13671 11 1133.1 13672 11 1133.7 13673 11 1134.3 13674 11 1134.9

13675 11 1135.6 13676 11 1136.2 13677 11 1136.8 13678 11 1137.4

13679 11 1138.0

13680 11 1138.6 13681 11 1139.2 13682 11 1139.8

13683 11 1140,4

13684 11 1141.1 13685 11 1141.7 13686 11 1142.3 13687 11 1142.9 13688 11 1143.5 13689 11 1144.1

13691 11 1145.3 13692 11 1145.9 13693 11 1146.5

13694 11 1147.2 13695 11 1147.8

13696 11 1148.4 13697 11 1149.0

13698 11 1149.6

13699 11 1150.2

13700 11 1150.8

Use check point at 13800 Kc

Frequency: 13700—13800 Kc

						- N	_	
Freq.	A	В	Freq.	A	В	Freq.	A	В
13700	11	1150.8	13734	11	1171.6	13768	11	1192.3
13701	11	1151.4	13735	¥1	1172.2	13769	11	1192.9
13702	11	152.0	13736	11	1172.8			
13703	11	1152 û	13737	11	1173.4	13770	11	1193.5
13704	11	1153.3	13738	11	1174.0	13771	11	1194.1
13705	11	1153.9	13739	11	1174.6	13772	11	1194.7
13706	11	1154 5				13773	11	1195.3
13707	1	1155 1	13740	11	1175.2	13774	11	1195.9
13708	11	1155 7	13741	11	1175.8	13775	11	11966
13709	11	1156.3	13742	11	1176.4	13776	11	1197.2
			13743	11	1177 1	13777	11	1197.8
13710	11	1156 9	13744	11	1177.7	13778	11	1198.4
13711	1 t	1157.5	13745	11	1178.3	13779	11	1199.0
13712	11	1158.1	13746	11	1178 9			
13713	11	1158.8	13747	11	1179.5	13780	11	11996
13714	11	1159.4	13748	11	1180.1	13781	11	1200.2
13715	11	1160.0	13749	11	1180.7	13782	11	1200.8
13716	11	1160.6				13783	11	1201.4
13717	11	1161.2	13750	11	1181.3	13784	11	1202.0
13718	11	1161 8	13751	11	11819	13785	11	1202.6
13719	11	1162.4	13752	11	1182.5	13786	11	1203.3
			13753	11	1183.1	13787	11	1203.9
13720	11	1163.0	13754	11	1183.8	13788	11	1204.5
13721	11	1163.6	13755	11	1184 4	13789	11	1205.1
13722	11	1164.2	13756	11	1185.0			
13723	13	1164 9	13757	11	1185.6	13790	11	1205.7
13724	11	1165.5	13758	11	1186.2	13791	11	1206.3
13725	11	1165 t	13759	t t	1186.8	13792	11	1206.9
13726	11	1166.7				13793	11	1207.5
13727	11	1167.3	13760	11	1187 4	13794	11	1208.1
13728	11	1167.9	13761	11	1188.0	13795	11	1208.7
13729	11	1168.5	13762	11	1188.6	13796	11	1209 3
			13763	11	1189.2	13797	11	1210.0
13730	11	1169 1	13764	11	1189.9	13798	11	1210.6
13731	11	1169 7	13765	11	1190.5	13799	11	1211.2
13732	11	1170.3	13766	11	1191.1	٠		
13733	11	1171.0	13767	11	1191.7	13800	11	1211.8
			I			ı		

Use check point at 13800 Kc

frequency: 13800-13900 Kc

Freq.	Α	В	Freq.	A	В	Freq.	A	_в
13800	11	1211.8	13834	11	1232.5	13868	11	1253.2
13801	11	1212.4	13835	11	1233.1	13869	11	1253.8
13802	11	1213.0	13836	11	1233.7			
13803	11	1213.6	13837	11	1234.3	13870	11	1254.4
13804	11	1214.2	13838	11	1234.9	13871	11	1255.0
13805	11	1214.8	13839	11	1235.5	13872	11	1255.6
13806	11	1215.4	İ			13873	11	1256.2
13807	11	1216.0	13840	11	1236.1	13874	11	1256.8
13806	11	1216.6	13841	11	1236.7	13875	11	1257.4
13809	11	1217.3	13842	11	1237.3	13876	11	1258.0
		'	13843	11	1238.0	13877	11	1258.7
13810	11	1217.9	13844	11	1238.6	13878	11	1259.3
13811	11	1218 5	13845	11	1239.2	13879	11	1259.9
13812	11	1219.1	13846	11	1239.8			
13813	11	1219.7	13847	11	1240.4	13880	11	1260.5
13814	11	1220.3	13848	11	1241.0	13881	11	1261.1
13815	11	1220.9	13849	11	1241.6	13882	11	1261.7
13816	11	1221.5				13683	11	1262.3
13817	11	1222.1	13850	11	1242.2	13884	11	1262.9
13818	11	1222.7	13851	11	1242.8	13885	11	1263.5
13819	11	1223.3	13852	11	1243.4	13886	11	1264.1
			13853	11	1244.0	13887	11	1264.7
13820	11	1224.0	13854	tt	1244.6	13888	11	1265.4
13821	11	1224.6	13855	11	1245.3	13889	11	1266.0
13822	11	1225.2	13856	11	1245.9	l		
13823	11	1225 8	13857	11	1246.5	13890	3.1	1266.6
13824	11	1226.4	13858	11	1247.1	13891	11	1267.2
13825	11	1227 0	13859	11	1247.7	13892	11	1267 8
13826	11	1227.6				13893	11	1268.4
13827	11	1228.2	13860	11	1248.3	13894	11	1269.0
13828	11	1228.8	13861	11	1248 9	13895	11	1269.6
13829	11	1229.4	13862	11	1249 5	13896	11	1270.7
			13863	11	1250.1	13897	11	1270.
13830	11	1230.0	13864	11	1250.7	13898	11	1271.4
13831	11	1230 6	13865	11	1251.3	13899	11	1272
13832	11	1231.3	13866	11	1252 0	ì		
13833	11	1231.9	13867	11	1252.6	13900	11	1272.

Use check point at 13800 Kc

Frequency: 13900-14000 Kc

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Freq.	Λ	В	Freq.	Α	В	Freu.	A	В
13900	11	1272.7	13934	11	1293.4	13968	11	13142
13901	11	1273.3	13935	11	1294.0	13969	11	1314.8
13902	11	1273.9	13936	11	1294.6			
13903	11	1274.5	13937	11	1295.2	13970	11	1315.4
13904	11	1275.1	13938	11	1295 8	13971	11	1316.0
13905	11	1275.7	13939	11	1296 5	13972	11	1316.6
13806	11	1276.3	,			13973	11	1317.2
13907	11	1276.9	13940	11	1297.1	13974	11	1317.9
13908	11	1277.5	13941	11	1297.7	13975	11	1318.5
13909	11	1278 1	13942	11	1298.3	13976	11	13191
			13943	11	1298 9	13977	11	1319.7
13910	11	1278.8	13944	11	1299.5	13978	11	1320.3
13911	11	1279.4	13945	11	1300 1	13979	11	1320.9
13912	11	1280.0	13946	11	1300.7			
13913	11	1280.6	13947	11	1301.3	13980	11	1321.5
13914	11	1281.2	13948	11	1302 0	13981	11	1322.1
13915	11	1281.8	13949	11	1302.6	13982	11	1322.7
13916	11	1282.4				13983	11	1323.4
13917	11	1283.0	13950	11	1303.2	13984	11	1324.0
13918	11	1283.6	13951	11	1303.8	13985	11	1324.6
13919	11	1284.2	13952	11	1304.4	13986	11	1325 2
			13953	11	1305.0	13987	11	1325.8
13920	11	1284.8	13954	11	1305.6	13388	11	1326.4
13921	11	1285.5	13955	11	1306 2	13989	11	1327.0
13922	11	1286.1	13956	11	13068	l		
13923	11	1286.7	13957	11	1307 5	13990	11	1327.6
13924	11	1287.3	13958	11	1308 1	13991	11	1328.2
13925	11	1287 9	13959	11	13087	13992	11	1328.8
13926	11	1288.5				13993	11	1329.5
13927	11	1289 1	13260	11	1309.3	13994	11	1330 1
13928	11	1289 7	13961	11	1309 9	13995	11	1330.7
13929	11	1290.3	13962	11	13105	13996	13	1331 3
			13963	11	1311 1	13997	11	1331.9
13930	11	1291.0	13964	11	1311.7	13998	11	1332.5
13931	11	1291.6	13965	11	1312.4	13999	11	1333.1
13932	11	1292.2	13966	11	1313.0			
13933	11	1292.8	13967	11	1313.G	14000	3 1	1333.7
			<u>L. </u>					
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Use check point at 13800 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

Frequency:	14000	14100 K.	
LIAGOAUTA:	1-000-	17 1VV KL	

Freq. A B	Frequency: 14000—14100 Kc										
14001 11 1334.3 14035 11 1355.1 14069 11 1375.8 14002 11 1334.9 14036 11 1355.1 14070 11 1376.4 14004 11 1335.2 14038 11 1356.9 14071 11 1377.0 14005 11 1336.8 14039 11 1356.9 14071 11 1377.0 14006 11 1338.6 14041 11 1358.1 14074 11 1378.2 14007 11 1338.6 14041 11 1358.1 14074 11 1378.2 14009 11 1339.8 14042 11 1359.3 14076 11 1380.0 14011 11 1340.2 14042 11 1360.2 14078 11 1380.2 14011 11 1341.7 14045 11 1361.2 14078 11 1381.2 14012 11	Freq.	Α	В	Freq.	A	В	Freq.	Α	В		
14002 11 1334.9 14036 11 1355.7 14003 11 1335.6 14037 11 1336.3 14070 11 1377.6 14005 11 1335.2 14038 11 1356.9 14071 11 1377.6 14005 11 1337.4 14072 11 1377.6 14073 11 1378.2 14007 11 1338.0 14040 11 1358.1 14073 11 1378.2 14009 11 1338.0 14040 11 1358.1 14074 11 1378.2 14009 11 1339.2 14042 11 1358.3 14076 11 1379.4 14010 11 1339.8 14044 11 1359.3 14076 11 1380.0 14011 11 1340.4 14045 11 1361.2 14079 11 1381.9 14011 1341.0 14047 11 1362.4 14080	14000	11	1333.7	14034	11	1354.5	14068	11	1375.2		
14003 11 1335.6 14037 11 1356.3 14070 11 1376.4 14004 11 1335.2 14038 11 1356.9 14071 11 1377.6 14006 11 1336.8 14039 11 1357.5 14072 11 1377.6 14006 11 1338.0 14040 11 1358.7 14074 11 1378.2 14009 11 1339.8 14041 11 1358.7 14075 11 1379.4 14010 11 1339.8 14042 11 1359.9 14077 11 1380.6 14011 13 14043 11 1359.9 14077 11 1380.6 14011 11 1340.0 14044 11 1360.6 14078 11 1381.2 14011 11 1341.0 14046 11 1361.2 14079 11 1382.5 14015 11 1342.9	14001	11	1334.3	14035	11	1355.1	14069	11	1375.8		
14004 11 1336.2 14038 11 1356.9 14071 11 1377.0 14006 11 1337.8 14039 11 1357.5 14072 11 1377.6 14007 11 1338.0 14040 11 1358.1 14074 11 1378.8 14008 11 1338.6 14041 11 1358.7 14075 11 1378.8 14009 11 1339.2 14042 11 1359.3 14076 11 1380.0 14011 11 1339.8 14044 11 1360.6 14078 11 1381.2 14011 11 1340.4 14045 11 1361.2 14079 11 1381.9 14011 11 1341.0 14045 11 1361.8 14014 11 1361.8 14014 11 1341.0 14046 11 1361.8 14014 11 1341.0 14046 11 1363.0 14081 11 1383.1 14015 11 1363.6 14082 11 1383.1 14016 11 1343.5 14044 11 1363.6 14082 11 1383.1 14016 11 1344.7 14047 11 1366.6 14082 11 1384.3 14018 11 1344.7 14050 11 1366.6 14082 11 1384.3 14022 11 1345.3 14052 11 1366.0 14082 11 1386.1 14022 11 1345.3 14055 11 1366.0 14082 11 1387.9 14024 11 1348.4 14055 11 1366.6 14088 11 1387.9 14024 11 1348.4 14057 11 1366.5 14088 11 1387.9 14024 11 1348.4 14057 11 1366.5 14098 11 1387.9 14022 11 1348.5 14057 11 1369.5 14099 11 1389.2 14022 11 1348.5 14057 11 1369.5 14099 11 1391.0 14022 11 1349.5 14052 11 1351.4 14052 11 1370.3 14094 11 1391.0 14029 11 1391.0 14029 11 1391.0 14029 11 1391.0 14029 11 1391.0 14029 11 1391.0 14031 11 1352.0 14062 11 1372.7 14098 11 1392.8 14031 11 1352.0 14065 11 1373.3 14099 11 1392.8 14031 11 1352.0 14066 11 1373.3 14098 11 1392.8 14031 11 1353.2 14066 11 1373.3 14098 11 1392.8 14031 11 1353.2 14066 11 1373.3 14098 11 1392.8 14031 11 1353.2 14066 11 1373.3 14098 11 1392.8 14031 11 1353.2 14066 11 1373.3 14098 11 1392.8 14031 11 1353.2 14066 11 1373.3	14002	11	1334.9	14036	11	1355.7					
14005 11 1336.8 14039 11 1357.5 14072 11 1377.6 14006 11 1337.4 14040 11 1358.1 14073 11 1377.6 14007 11 1338.0 14040 11 1358.1 14075 11 1378.8 14009 11 1338.0 14041 11 1358.7 14075 11 1379.4 14010 11 1339.2 14042 11 1359.9 14076 11 1380.0 14011 11 1340.4 14045 11 1361.2 14079 11 1381.9 14012 11 1341.0 14046 11 1361.2 14079 11 1381.9 14014 11 1342.3 14046 11 1363.0 14081 11 1382.5 14014 11 1342.3 14047 11 1362.4 14080 11 1382.1 14017 11	14003	11	1335.6	14037	11	1356.3	14070	11	1376.4		
14006 11 1337.4 14073 11 1378.2 14007 11 1338.6 14041 11 1358.7 14075 11 1379.4 14009 11 1338.6 14041 11 1358.7 14075 15 1379.4 14009 11 1339.2 14042 11 1359.3 14076 11 1380.0 14011 11 1340.4 14045 11 1359.9 14078 11 1380.0 14012 11 1341.0 14046 11 1361.2 14079 11 1381.2 14014 11 1341.0 14046 11 1361.2 14079 11 1381.2 14014 11 1342.3 14046 11 1362.4 14080 11 1383.7 14015 11 1342.9 14049 11 1363.6 14082 11 1383.7 14017 11 1345.3 14052 11	14004	11	1336.2	14038	11	1356.9	14071	11	1377.0		
14007 11 1338.0 14040 11 1358.1 14074 11 1378.8 14009 11 1338.6 14041 11 1359.3 14076 11 1379.8 14009 11 1339.2 14042 11 1359.9 14077 11 1380.6 14011 11 1349.8 14044 11 1360.2 14079 11 1380.6 14012 11 1340.1 14045 11 1361.2 14079 11 1381.2 14012 11 1341.7 14046 11 1361.8 14080 11 1382.5 14014 11 1342.3 14048 11 1363.0 14081 11 1383.1 14015 11 1342.3 14049 11 1363.0 14083 11 1383.1 14017 11 1342.3 14049 11 1363.6 14083 11 1384.3 14018 11	14005	11	1336.8	14039	11	1357.5	14072	11	1377.6		
14008 11 1338.6 14041 11 1358.7 14075 11 1379.4 14009 11 1339.2 14042 11 1359.9 14076 11 1380.6 14010 11 1339.8 14044 11 1359.9 14077 11 1380.6 14011 11 1340.4 14045 11 1361.2 14079 11 1381.9 14012 11 1341.7 14046 11 1361.8 14079 11 1381.9 14014 11 1342.3 14048 11 1363.0 14081 11 1383.1 14015 11 1342.9 14049 11 1363.0 14081 11 1383.1 14017 11 1342.9 14049 11 1363.0 14081 11 1383.1 14017 11 1343.5 14051 11 1364.2 14082 11 1384.3 14017 11	14006	11	1337.4				14073	11	1378.2		
14009 11 1339.2 14042 11 1359.3 14076 11 1380.0 14010 11 1339.8 14043 11 1359.9 14078 11 1380.0 14011 11 1340.4 14045 11 1361.2 14079 11 1381.9 14012 11 1341.0 14046 11 1361.8 14080 11 1381.9 14014 11 1361.2 14081 11 1362.4 14080 11 1381.9 14015 11 1342.9 14048 11 1363.0 14082 11 1383.1 14015 11 1342.9 14049 11 1363.6 14082 11 1383.7 14017 11 1344.7 14050 11 1364.2 14082 11 1384.9 14019 11 1345.9 14050 11 1366.0 14086 11 1386.1 14020 11	14007	11	1338.0	14040	11	1358.1	14074	11	1378.8		
14010	14008	11	1338.6	14041	11	1358.7	14075	11	1379.4		
14010 11 1339.8 14044 11 1360.6 14078 11 1381.2 14011 11 1340.4 14045 11 1361.8 14079 11 1381.9 14013 11 1341.7 14047 11 1362.4 14080 11 1382.5 14014 11 1342.3 14048 11 1363.0 14081 11 1383.1 14015 11 1342.9 14049 11 1363.0 14081 11 1383.1 14016 11 1342.9 14049 11 1363.0 14081 11 1383.1 14017 11 1343.5 14050 11 1363.2 14084 11 1384.3 14019 11 1345.3 14051 11 1365.4 14084 11 1384.9 14019 11 1345.3 14052 11 1365.4 14086 11 1386.1 14021 11	14009	11	1339.2	14042	11	1359.3	14076	11	1380.0		
14011 11 1340.4 14045 11 1361.2 14079 11 1381.9 14012 11 1341.7 14046 11 1361.8 14080 11 1381.9 14013 11 1342.3 14048 11 1363.0 14081 11 1383.1 14015 11 1342.3 14049 11 1363.6 14082 11 1383.7 14016 11 1343.5 14050 11 1364.2 14083 11 1384.3 14017 11 1344.7 14050 11 1364.2 14084 11 1384.3 14019 11 1344.7 14050 11 1364.8 14085 11 1384.9 14029 11 1345.9 14052 11 1366.0 14088 11 1386.1 14020 11 1345.9 14055 11 1366.6 14088 11 1387.9 14022 11				14043	11	1359.9	14077	11	1380.6		
14012 11 1341.0 14046 11 1361.8 14080 11 1382.5 14013 11 1342.3 14048 11 1363.0 14081 11 1383.1 14015 11 1342.3 14049 11 1363.0 14082 11 1383.7 14016 11 1342.3 14049 11 1363.6 14082 11 1383.7 14017 11 1344.1 14050 11 1364.2 14084 11 1384.3 14019 11 1345.3 14052 11 1365.4 14086 11 1385.3 14019 11 1345.3 14052 11 1365.4 14086 11 1385.1 14020 11 1345.3 14052 11 1365.4 14086 11 1385.1 14020 11 1345.9 14053 11 1366.0 14086 11 1387.9 14022 11	14010			14044	11	1360.6	14078				
14013 11 1341.7 14047 11 1362.4 14080 11 1382.5 14014 11 1342.3 14048 11 1363.0 14081 11 1383.1 14016 11 1342.9 14049 11 1363.6 14082 11 1383.1 14017 11 1343.5 14050 11 1364.2 14084 11 1384.9 14019 11 1345.3 14051 11 1365.4 14086 11 1384.9 14020 11 1345.9 14052 11 1365.0 14087 11 1366.0 14021 11 1345.9 14052 11 1366.0 14087 11 1367.3 14022 11 1347.1 14055 11 1367.3 14089 11 1387.9 14023 11 1347.8 14055 11 1367.9 14099 11 1389.8 14025 11	14011	11	1340.4	14045	11	1361.2	14079	11	1381.9		
14014 11 1342.3 14048 11 1363.0 14081 11 1383.1 14015 11 1342.3 14049 11 1363.6 14082 11 1383.1 14081 11 1384.3 14081 11 1344.1 14050 11 1364.8 14084 11 1384.3 14019 11 1345.3 14051 11 1364.8 14085 11 1385.5 14020 11 1345.9 14052 11 1366.6 14088 11 1386.1 14022 11 1347.3 14055 11 1367.9 14022 11 1347.3 14056 11 1367.9 14024 11 1347.8 14058 11 1367.9 14026 11 1349.6 11 1369.7 14026 11 1367.9 14026 11 1367.9 14026 11 1369.7 14026 11 1369.7 14026 11 1369.7 14026 11 1369.7 14026 11 1369.7 14026 11 1369.7 14026 11 1369.7 14026 11 1369.7 14026 11 1369.7 14026 11 1369.7 14026 11 1369.7 14026 11 1369.7 14026 11 1369.7 14026 11 1369.7 14026 11 1369.7 14026 11 1350.8 14066 11 1370.3 14094 11 1390.6 14028 11 1350.8 14061 11 1370.3 14096 11 1390.6 14030 11 1350.6 14066 11 1372.7 14097 11 1392.8 14031 11 1352.6 14065 11 1373.3 14096 11 1392.8 14031 11 1352.6 14065 11 1373.3 14096 11 1392.8 14031 11 1353.2 14066 11 1373.3 14096 11 1392.8 14031 11 1353.2 14066 11 1373.3 14096 11 1394.0 14032 11 1353.2 14066 11 1373.3 14096 11 1394.0 14032 11 1353.2 14066 11 1373.3 14096 11 1394.0 14032 11 1353.2 14066 11 1373.3 14096 11 1394.0 14032 11 1353.2 14066 11 1373.3 14096 11 1394.0 14032 11 1353.2 14066 11 1373.3 14096 11 1394.0 14032 11 1353.2 14066 11 1373.3 14096 11 1394.0 14032 11 1353.2 14066 11 1373.3 14096 11 1394.0 14032 11 1353.2 14066 11 1373.3 14096 11 1394.0 14032 11 1353.2 14066 11 1373.3 14096 11 1394.0 14032 11 1353.2 14066 11 1373.3 14096 11 1394.0 14032 11 1353.2 14066	14012	11	1341.0	14046	11	1361.8	1				
14015 11 1342.9 14049 11 1363.6 14082 11 1383.7 14016 11 1343.5 14065 11 1364.2 14083 11 1384.3 14017 11 1344.7 14051 11 1364.8 14085 11 1385.1 14019 11 1345.3 14052 11 1366.0 14086 11 1385.1 14020 11 1345.3 14052 11 1366.0 14086 11 1386.1 14020 11 1345.9 14053 11 1366.0 14087 11 1387.9 14022 11 1347.8 14055 11 1367.9 14089 11 1387.9 14024 11 1349.0 14056 11 1369.1 14091 11 1388.6 14024 11 1349.0 14056 11 1369.1 14091 11 1389.2 14026 11	14013	11	1341.7	14047	11	1362.4	14080	11	1382.5		
14016 11 1343.5 14083 11 1384.3 14017 11 1344.1 14050 11 1364.2 14085 11 1384.5 14019 11 1345.3 14051 11 1365.4 14086 11 1385.5 14020 11 1345.3 14052 11 1366.6 14087 11 1386.1 14020 11 1345.3 14052 11 1366.6 14088 11 1386.1 14021 11 1345.5 14055 11 1366.6 14088 11 1387.9 14022 11 1347.1 14056 11 1366.3 14088 11 1387.9 14022 11 1347.8 14057 11 1369.3 14099 11 1389.2 14024 11 1348.6 14056 11 1369.1 14091 11 1389.2 14026 11 1349.0 14057 11	14014	11	1342.3	14048	11	1363.0	14081	11	1383.1		
14017 11 1344.1 14050 11 1364.2 14084 11 1384.9 14019 11 1345.3 14051 11 1365.4 14085 11 1385.5 14029 11 1345.3 14051 11 1366.4 14086 11 1386.1 14020 11 1345.9 14054 11 1366.0 14088 11 1387.3 14021 11 1345.5 14055 11 1367.3 14089 11 1387.9 14023 11 1347.8 14055 11 1367.9 14099 11 1387.9 14024 11 1349.8 14058 11 1369.7 14090 11 1389.8 14025 11 1349.0 14059 11 1369.7 14091 11 1389.8 14026 11 1349.0 14059 11 1369.7 14092 11 1389.8 14028 11	14015	11	1342.9	14049	11	1363.6	14082	11	1383.7		
14018 11 1344.7 14051 11 1364.8 14085 11 1385.5 14019 11 1345.3 14052 11 1365.0 14086 11 1386.1 14020 11 1345.9 14053 11 1366.0 14087 11 1367.3 14021 11 1345.5 14054 11 1366.0 14088 11 1387.3 14022 11 1347.1 14055 11 1367.9 14089 11 1387.9 14023 11 1347.8 14056 11 1369.9 14091 11 1388.6 14024 11 1349.0 14057 11 1369.7 14091 11 1389.2 14025 11 1349.0 14058 11 1369.7 14091 11 1389.2 14026 11 1359.0 14051 11 1370.3 14094 11 1390.4 14029 11	14016	11	1343.5				14083	11	1384.3		
14019 11 1345.3 14052 11 1365.4 14086 11 1386.1 14020 11 1345.9 14053 11 1366.6 14088 11 1367.3 14021 11 1346.5 14055 11 1367.3 14089 11 1387.9 14022 11 1347.8 14055 11 1369.5 14090 11 1389.9 14024 11 1348.4 14058 11 1369.1 14091 11 1389.2 14026 11 1349.0 14059 11 1369.1 14091 11 1389.2 14027 11 1350.2 14060 11 1370.3 14094 11 1391.0 14028 11 1351.4 14062 11 1371.5 14094 11 1391.0 14029 11 1351.4 14062 11 1371.5 14096 11 1392.2 14031 11	14017	11	1344.1	14050	11	1364.2	14084	11	1384.9		
14020 11 1345.9 14053 11 1366.0 14087 11 1386.7 14021 11 1346.5 14055 11 1366.3 14088 11 1387.3 14022 11 1347.1 14056 11 1367.9 14023 11 1347.8 14056 11 1367.9 14024 11 1349.0 14059 11 1369.7 14026 11 1349.0 14059 11 1369.7 14092 11 1389.8 14096 11 1370.3 14098 11 1390.4 14026 11 1350.2 14060 11 1370.3 14094 11 1390.4 14028 11 1350.8 14061 11 1370.3 14094 11 1390.4 14029 11 1351.4 14062 11 1370.9 14095 11 1391.0 14029 11 1351.4 14062 11 1370.3 14094 11 1391.0 14029 11 1351.4 14061 11 1370.3 14096 11 1392.8 14033 11 1352.6 14066 11 1373.3 14097 11 1392.8 14031 11 1352.6 14065 11 1373.3 14099 11 1394.0	14018	11	1344.7	14051	11	1364.B	14085	11	1385.5		
14020 11 1345.9 14054 11 1366.6 14088 11 1387.3 14021 11 1345.5 14055 11 1367.9 14089 11 1387.9 14022 11 1347.8 14056 11 1367.9 14090 11 1388.6 14023 11 1348.4 14058 11 1369.7 14091 11 1389.2 14025 11 1349.0 14059 11 1369.7 14092 11 1389.2 14026 11 1349.6 11 1370.3 14094 11 1389.2 14027 11 1350.2 14060 11 1370.3 14094 11 1391.0 14028 11 1351.4 14062 11 1371.5 14096 11 1392.8 14030 11 1352.0 14064 11 1372.1 14097 11 1392.8 14031 11 1352.0 <td< td=""><td>14019</td><td>11</td><td>1345.3</td><td>14052</td><td>11</td><td>1365.4</td><td>14086</td><td>11</td><td>1386.1</td></td<>	14019	11	1345.3	14052	11	1365.4	14086	11	1386.1		
14021 11 1346.5 14055 11 1367.3 14089 11 1387.9 14022 11 1347.8 14055 11 1368.5 14090 11 1388.6 14024 11 1348.4 14058 11 1369.1 14091 11 1389.2 14026 11 1349.0 14059 11 1369.1 14091 11 1389.2 14027 11 1350.2 14060 11 1370.3 14094 11 1391.0 14028 11 1351.4 14062 11 1371.5 14095 11 1391.0 14029 11 1351.4 14062 11 1371.5 14096 11 1392.2 14030 11 1352.0 14064 11 1372.1 14096 11 1393.4 14031 11 1352.2 14065 11 1373.3 14099 11 1393.4 14031 11				14053	11	1366.0	14087	11	1386.7		
14022 11 1347.1 14056 11 1367.9 14023 11 1347.8 14057 11 1368.5 14090 11 1388.6 14024 11 1348.4 14058 11 1369.1 14091 11 1389.2 14026 11 1349.6 14059 11 1369.7 14093 11 1390.4 14026 11 1350.2 14060 11 1370.3 14093 11 1390.4 14028 11 1350.8 14061 11 1370.9 14095 11 1391.6 14029 11 1351.4 14062 11 1371.5 14096 11 1392.8 14030 11 1352.0 14064 11 1372.1 14097 11 1392.8 14031 11 1352.6 14064 11 1373.3 14099 11 1394.0 14031 11 1353.2 14066 11 1373.3	14020	11	1345.9	14054	11	1366.6	14088	11	1387.3		
14023 11 1347.8 14057 11 1368.5 14090 11 1388.6 14024 11 1348.4 14058 11 1369.1 14091 11 1389.2 14025 11 1349.0 14059 11 1369.7 14092 11 1389.8 14026 11 1349.6 14060 11 1370.3 14094 11 1390.4 14028 11 1350.8 14061 11 1370.9 14095 11 1391.6 14029 11 1351.4 14062 11 1372.1 14096 11 1392.8 14030 11 1352.0 14064 11 1372.1 14097 11 1392.8 14031 11 1352.6 14064 11 1373.3 14098 11 1393.4 14031 11 1353.2 14066 11 1373.3 14099 11 1394.0	14021	11	1346.5	14055	11	1367.3	14089	11	1387.9		
14024 11 1348.4 14058 11 1369.1 14091 11 1389.2 14025 11 1349.6 14059 11 1369.7 14093 11 1390.4 14027 11 1350.2 14060 11 1370.3 14094 11 1391.0 14028 11 1350.8 14061 11 1370.3 14095 11 1391.0 14029 11 1351.4 14062 11 1371.5 14096 11 1392.2 14030 11 1352.0 14064 11 1372.1 14097 11 1393.4 14031 11 1352.6 14064 11 1373.3 14099 11 1393.4 14032 11 1353.2 14066 11 1373.3 14099 11 1394.0	14022	11	1347.1	14056	11	1367.9					
14025 11 1349.0 14059 11 1369.7 14092 11 1389.8 14026 11 1349.6 14093 11 1390.4 14027 11 1350.2 14060 11 1370.3 14094 11 1391.6 14028 11 1350.8 14061 11 1370.9 14095 11 1391.6 14029 11 1351.4 14062 11 1371.5 14096 11 1392.8 14030 11 1352.0 14064 11 1372.7 14098 11 1393.4 14031 11 1352.6 14065 11 1373.3 14099 11 1394.0 14032 11 1353.2 14066 11 1373.3 14099 11 1394.0	14023	11	1347.8	14057	11	1368.5	14090	11	1388.6		
14026 11 1349.6 14093 11 1390.4 14027 11 1350.2 14060 11 1370.3 14094 11 1391.6 14028 11 1350.8 14061 11 1370.9 14095 11 1391.6 14029 11 1351.4 14062 11 1371.5 14096 11 1392.8 14030 11 1352.0 14064 11 1372.1 14097 11 1392.8 14031 11 1352.0 14064 11 1373.3 14099 11 1394.0 14031 11 1353.2 14065 11 1373.3 14099 11 1394.0	14024	11	1348.4	14058	11	1369.1	14091	11	1389.2		
14027 11 1350.2 14060 11 1370.3 14094 11 1391.0 14028 11 1350.8 14061 11 1370.9 14095 11 1391.0 14029 11 1351.4 14062 11 1371.5 14096 11 1392.2 14030 11 1352.0 14063 11 1372.1 14097 11 1392.8 14031 11 1352.6 14065 11 1373.3 14099 11 1394.0 14032 11 1353.2 14066 11 1373.9 14099 11 1394.0	14025	11	1349.0	14059	11	1369.7	14092	11	1389.8		
14028 11 1350.8 14061 11 1370.9 14095 11 1391.6 14029 11 1351.4 14062 11 1371.5 14096 11 1392.2 14030 11 1352.0 14064 11 1372.7 14097 11 1392.8 14031 11 1352.6 14065 11 1373.3 14099 11 1394.0 14032 11 1353.2 14066 11 1373.9 14099 11 1394.0	14026	11	1349.6	1			14093	11	1390.4		
14029 11 1351.4 14062 11 1371.5 14096 11 1392.2 14030 11 1352.0 14064 11 1372.7 14097 11 1392.8 14031 11 1352.0 14065 11 1372.7 14098 11 1393.4 14032 11 1353.2 14066 11 1373.3 14099 11 1394.0	14027	11	1350.2	14060	11	1370.3	14094	11	1391.0		
14030 11 1352.0 14064 11 1372.1 14097 11 1392.8 14031 11 1352.6 14064 11 1372.7 14098 11 1393.4 14032 11 1353.2 14066 11 1373.9	14028	11	1350.8	14061	11	1370.9	14095	11	1391.6		
14030 11 1352.0 14064 11 1372.7 14098 11 1393.4 14031 11 1352.6 14065 11 1373.3 14099 11 1394.0 14032 11 1353.2 14066 11 1373.9	14029	11	1351.4	14062	11	1371.5	14096	11	1392.2		
14031 11 1352.6 14065 11 1373.3 14099 11 1394.0 14032 11 1353.2 14066 11 1373.9				14063	11	1372.1	14097	11	1392.8		
14032 11 1353.2 14066 11 1373.9	14030	11	1352.0	14064	11	1372.7	14098	11	1393.4		
	14031	11	1352.6	14065	11	1373.3	14099	11	1394.0		
14033 11 1353.9 14067 11 1374.6 14100 11 1394.6	14032	31	1353.2	14066	11	1373.9	1				
	14033	11	1353.9	14067	11	1374.6	14100	11	1394.6		
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Use check point at 13800 Kc

Frequency: 14100-14200 Kc

Freq.	Α	В	Freq.	A	В	Freq.	Α	В
14100	11	1394.6	14134	11	1415.4	14168	11	1436.2
14101	11	1395.3	14135	11	1416.1	14169	11	1436.8
14102	11	1395.9	14136	11	1416.7			
14103	11	1396.5	14137	11	1417.3	14170	11	1437.4
14104	11	1397.1	14138	11	1417.9	14171	11	1438.1
14105	11	1397 7	14139	11	1418.5	14172	11	1438.7
14106	11	1398.3				14173	11	1439.3
14107	11	1398.9	14140	11	1419.1	14174	11	1439.9
14108	1.1	1399.5	14141	11	1419.7	14175	7.1	1440.5
14109	11	1400.1	14142	11	1420.3	14176	11	1441.1
			14143	11	1421.0	14177	11	1441.7
14110	11	1400.B	14144	11	1421.6	14178	11	1442.3
14111	11	1401.4	14145	11	1422.2	14179	11	1442.9
14112	11	1402.0	14146	11	1422.8			
14113	11	1402.6	14147	11	1423.4	14180	11	1443.5
14114	11	1403.2	14148	11	1424.0	14181	11	1,444.1
14115	11	1403.8	14149	11	1424.6	14182	11	1444.7
14116	11	1404.4				14183	11	1445.4
14117	11	1405.0	14150	11	1425.2	14184	11	1446.0 1446.6
14118	11	1405.7	14151	11	1425.9		11	1447.2
14119	11	1406.3	14152 14153	11	1426 5 1427 1	14186 14187	11	1447.8
44400			14154	11		14188	11	1448.4
14120	11	1406.9	14155	11	1427.7	14189	11	1449.0
14121	11	1407.5	14156	11	1428.3	14109	* +	1449.0
14122 14123	11	1408.1	14157	11	1428.9	14190	11	1449.6
14123	11	1408.7	14158	11	1430.1	14191	13	1450.2
14125	11	1409.3	14159	11	1430.7	14192	11	1450.8
14126	11	1410.6	14133		1430 /	14193	- 11	1451.4
14120	11	1411.2	14160	11	1431.4	14194	11	1452.0
14128	11	1411.8	14161	11	1432.0	14195	11	1452.7
14129		1412.4	14162	11	1432.6	14196	11	1453.3
14123		1712.7	14163	11	1433.2	14197	11	1453.9
14130	11	1413.0	14164		1433.5	14198	11	1454.5
14131	11	1413.6	14165		1434.4	14199	11	1455.1
14132		1414.2	14166		1435.0	1	•	
14133			14167		1435.6	14200	11	1455.7
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Use check point at 14400 Kc

Frequency: 14200-14300 Kc

Freq.	Α	В	Freq.	Α	В	Freq.	Α	В
14200	11	1455.7	14234	11	1476.5	14268	11	1497.4
14201	11	1456.3	14235	11	1477.1	14269	11	1498.1
14202	11	1456.9	14236	11	1477.7			
14203	11	1457.5	14237	11	1478.3	14270	11	1498.7
14204	11	1458.1	14238	11	1479.0	14271	11	1499.3
14205	11	1458.7	14239	11	1479.6	14272	11	1499.9
14206	11	1459.3				14273	11	1500.5
14207	11	1460.0	14240	11	1480.2	14274	11	1501.1
14208	11	1460.6	14241	11	1480.8	14275	11	1501.8
14209	11	1461.2	14242	11	1481.4	14276	11	1502.4
			14243	11	1482.0	14277	11	1503.0
14210	11	1461.8	14244	11	1482.7	14278	11	1503.6
14211	11	1462.4	14245	11	1483.3	14279	11	1504.2
14212	11	1463.0	14246	11	1483.9	1		
14213	11	1463.6	14247	11	1484.5	14280	11	1504.8
14214	11	1464.2	14248	11	1485.1	14281	11	1505.5
14215	11	1464.8	14249	11	1485.7	14282	11	1506.1
14216	11	1465.4	l			14283	11	1506.7
14217	11	1466.0	14250	11	1486.4	14284	11	1507.3
14218	11	1466.6	14251	1.1	1487.0	14285	13	1507.9
14219	11	1467.3	14252	11	1487.6	14286	11	1508.5
			14253	11	1488.2	14287	11	1509.1
14220	11	1467.9	14254	11	1488.8	14288	11	1509.8
14221	11	1468.5	14255	11	1489.4	14289	11	1510.4
14222	11	1469.1	14256	11	1490.0	i		
14223	11	1469.7	14257	11	1490.7	14290	11	1511.0
14224	11	1470.3	14258	11	1491.3	14291	11	1511.6
14225	11	1470.9	14259	11	1491.9	14292	11	1512.2
14226	11	1471.6				14293	11	1512.8
14227	11	1472.2	14260	11	1492.5	14294	11	1513.4
14228	11	1472.8	14261	11	1493.1	14295	11	1514.1
14229	11	1473.4	14262	11	1493.7	14296	11	1514.7
			14263	11	1494.4	14297	3.1	1515.3
14230	11	1474.0	14264	11	1495.0	14298	11	1515.9
14231	11	1474.6	14265	11	1495.6	14299	11	1516.5
14232	11	1475.3	14266	11	1496.2	l		,
14233	11	1475.9	14267	11	1496.8	14300	11	1517.1
			<u> </u>					

Use check point at 14400 Kc

Frequency: 14300-14400 Kc

Freq.	Α	В	Freq.	Α	В	Freq.	A	В
14300	11	1517.1	14334	11	1538.0	14368	11	1559.1
14301	11	1517.7	14335	11	1538.6	14369	11	1559.7
14302	11	1518.4	14336	11	1539.3			
14303	11	1519.0	14337	11	1539.9	14370	11	1560.3
14304	11	1519.6	14338	11	1540.5	14371	11	1560.9
14305	11	1520.2	14339	11	1541.1	14372	11	1561.5
14306	11	1520.8				14373	11	1562.1
14307	11	1521.4	14340	11	1541.7	14374	11	1562.8
14308	11	1522.1	14341	11	1542.3	14375	11	1563.4
14309	11	1522.7	14342	11	1543.0	14376	11	1564.0
			14343	11	1543.6	14377	11	1564.6
14310	11	1523.3	14344	11	1544.2	14378	11	1565.2
14311	11	1523.9	14345	11	1544.8	14379	11	1565.9
14312	11	1524.5	14346	11	1545.4			
14313	11	1525.1	14347	11	1546.1	14380	11	1566.5
14314	11	1525.7	14348	11	1546.7	14381	11	1567.1
14315	11	1526.4	14349	11	1547.3	14382	11	1567:7
14316	11	1527.0	l			14383	11	1568.3
14317	11	1527.6	14350	11	1547.9	14384	11	1569.0
14318	11	1528.2	14351	11	1548.5	14385	11	1569.6
14319	11	1528.8	14352	11	1549.1	14386	11	1570.2
			14353	11	1549.8	14387	11	1570.8
4320	11	1529.4	14354	11	1550.4	14388	11	1571.4
14321	11	1530.0	14355	11	1551.0	14389	11	1572.1
14322	11	1530.7	14356	11	1551.6			
14323	11	1531.3	14357	11	1552.2	14390	11	1572.7
14324	11	1531.9	14358	11	1552.9	14391	11	1523.3
14325	11	1532.5	14359	11	1553.5	14392	11	1573.9
14326	11	1533.1	1			14393	11	1574.5
14327	11	1533.7	14360	11	1554.1	14394	11	1575.1
14328	11	1534.3	14361	11	1554.7	14395	11	1575.8
14329	11	1535.0	14362	11	1555.3	14396	11	1576.4
			14363	11	1556.0	14397	11	1577.0
14330	11	1535.6	14364	11	1556.6	14398	‡1	1577.6
14331	11	1536.2	14365	11	1557.2	14399	11	1578.2
14332	11	1536.8	14366	11	1557.B	I		
14333	11	1537.4	14367	11	1558.4	14400	11	1578.9

Use check point at 14400 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

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Frequency:	14400-	. 14500	Κc

	,	reque	ney: 14	140	V— 143	OO K¢		
Freq.	A	В	Freq.	A	В	Freq.	A	В
14400	12	60.0	14434	12	77.4	14468	12	94 7
14401	12	60 5	14435	12	77 9	14469	12	95 3
14402	12	61 0	14436	12	78 4			
14403	12	61 5	14437	12	78 9	14470	12	95 8
14404	12	62 0	14438	12	79 4	14471	12	96 3
14405	12	62 6	14439	12	79 9	14472	12	96 8
14406	12	63 1				14473	12	97 3
14407	12	63 6	14440	12	80 4	14474	12	97 8
14408	12	64 1	14441	12	81 0	14475	12	98 3
14409	12	64 6	14442	12	81 5	14476	12	98 8
		i	14443	12	82 Q	14477	12	99 3
14410	12	65 1	14444	12	82 5	14478	12	99 9
14411	12	65 6	14445	12	83.0	14479	12	100 4
14412	12	66 1	14446	12	83 5			
14413	12	66 6	14447	12	B4 0	14480	12	100 9
14414	12	67 2	14448	12	84 5	14481	12	101 4
14415	12	67 7	14449	12	85.0	14482	12	101 9
14416	12	68 2				14483	12	102 4
14417	12	68 7	14450	12	85 6	14484	12	102 9
14418	12	69.2	14451	12	86 1	14485	12	103 4
14419	12	69 7	14452	12	86 6	14486	12	103 9
			14453	12	87 1	14487	12	104 5
14420	12	70 2	14454	12	87 6	14488	12	105 0
14421	12	70 7	14455	12	88 1	14489	12	105 5
14422	12	71 2	14456	12	88 6			
14423	12	71 8	14457	12	89 1	14490	12	106 0
14424	12	72 3	14458	12	89 6	14491	12	106 5
14425		72 8	14459	12	90 1	14492	12	107.0
14426		73 3	l	_		14493	12	107 5
14427		73 8	14460	12	90 7	14494	12	108 0
14428		74 3	14461	12	91 2	14495	12	108 5
14429	12	74 8	14462	12	91 7	14496	12	109 1
			14463	12	92 2	14497	12	109 6
14430		75 3	14464	12	92 7	14498	12	110 1
14431		75 8	14465	12	93 2	14499	12	110 6
14432		76.4	14466	12	93 7	1		
14433	12	76.9	14467	12	94.2	14500	12	111.1
			1			1		

Use check point at 14400 Kc

Frequency: 14500-14600 Kc

Freq.	A	В	Freq.	A	В	Freq.	A	В
14500	12	111 1	14534	12	128 4	14568	12	145 7
14501	12	111 6	14535	12	128 9	14569	12	146 2
14502	12	112 1	14536	12	129 5			
14503	12	112 6	14537	12	130 0	14570	12	146 7
14504	12	113 1	14538	12	130 5	14571	12	147 2
14505	12	113 7	14539	12	131 0	14572	12	147 B
14506	12	114 2				14573	12	148 3
14507	12	114 7	14540	12	131 5	14574	12	148 8
14508	12	115 2	14541	12	132 0	14575	12	149 3
14509	12	115 7	14542	12	132 5	14576	12	149 8
			14543	12	133 0	14577	12	150 3
14510	12	116 2	14544	12	133 5	14578	12	150 B
14511	12	116 7	14545	12	134 0	14579	12	151 3
14512	12	117 2	14546	12	134 5	1		^
14513	12	117 7	14547	12	135 0		12	151 8
14514	12	118 3	14548	12	135 6	14581	12	152 3 152 8
14515		118 8	14549	12	136 1	14582	12 12	153 3
14516		119 3			136 6	14583	12	153 8
14517		119 8	14550	12	137 1	14585	12	154 4
14518		120 3 120 8	14552	12	137 6	14586	12	154 9
14519	12	120 6	14553	12	138 1	14587	12	155 4
14520	12	121 3	14554		138 6		12	155 9
14521		121 8	14555			14589	12	156 4
14522			14556				12	100 4
14523			14557			14590	12	156 9
14524			14558				12	157 4
14525			14559			14592		157 9
14526						14593	12	158 4
14527			14560	12	141 7			
14528			14561				12	159 4
14529	_		14562	12	142 7	14596	12	159 9
			14563	12	143 2	14597	12	160 4
14530) 12	126 4	14564	12	143 7	14598	12	160 9
1453		126 9	14565	12	144 2	14599	12	161 4
1453		127 4	14566			, I		
1453		127 9	14567	12	145 2	14600	12	161 9
			1			1		

Use check point at 14400 Kc

Frequency: 14600-14700 Kc

Freq.	Α	В	Freq.	A	В	Freq.	A	В
14600	12	161 9	14634	12	179 1	14668	12	196 4
14601	12	162 4	14635	12	179 7	14669	12	196 9
14602	12	163 0	14636	12	180 2			
14603	12	163 5	14637	12	180 7	14670	12	197 4
14604	12	164 0	14638	12	181 2	14671	12	197 9
14605	12	164 5	14639	12	181 7	14672	12	198.4
14606	12	165 0				14673	12	198 9
14607	12	165 5	14640	12	182 2	14674	12	199 4
14608	12	166 0	14641	12	182 7	14675	12	199 9
14609	12	166 5	14642	12	183 2	14676	12	200 4
			14643	12	183 7	14677	12	200 9
14610	12	167 0	14644	12	184 2	14678	12	201 4
14611	12	167 5	14645	12	184 7	14679	12	202 0
14612	12	168 0	14646	12	185 2		_	
14613	12	168 5	14647	12	185 7	14680	12	202 5
14614	12	169 0	14648	12	186 2	14681	12	203 0
14615	12	169 5	14649	12	186 7	14682	12	203 5
14616	12	170 0				14683	12	204 0
14617	12	170 5	14650	12	187 3	14684	12	204.5
14618	12	171 0	14651	12	187 8	14685	12	205 0
14619	12	171 6	14652	12	188 3	14686	12	205 5
			14653	12	168.8	14687	12	206 0
14620	12	172 1	14654	12	189 3	14688	12	206 5
14621	12	172 6	14655	12	189 8	14689	12	207 0
14622	12	173 1	14656	12	190 3			
14623	12	173 6	14657	12	190 8	14690	12	207 5
14624	12	174 1	14658	12	191.3	14691 14692	12 12	208 0 208 5
14625	12	174 6	14659	12	191 8	14693	12	209 1
14626	12	175 1	14660	12	192 3	14694	12	209 6
14627	12 12	175 6 176 1	14661	12	192 8	14695	12	210 1
14628	12	176 6	14662	12	193 3	14696	12	210 6
14629	12	1/0 0	14663	12	193 3	14697	12	211 1
14630	12	177 1	14664	12	194 3	14698	12	211 6
14631	12	177 6	14665	12	194 9	14699	12	212 1
14632	12	177 6	14666	12	195 4	17035	12	215
14633	12	178 6	14667	12	195 9	14700	12	212 6
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			<u> </u>	_				
		Hea		-1-4	14404	1 Ka		

Use check point at 14400 Ke

Frequency: 14700-14800 Kc

Freq.	A	В	Freq.	A	В	Freq.	A	В
14700	12	212 6	14734	12	229 8	14768	12	247 0
14701	12	213 1	14735	12	230 3	14769	12	247 5
14702	12	213 6	14736	12	230 8	1		
14703	12	214 1	14737	12	231 3	14770	12	248 1
14704	12	214 6	14738	12	231 8	14771	12	248 6
14705	12	215 1	14739	12	232 3	14772	12	249 1
14706	12	215 6	l			14773	12	249 6
14707	12	216 1	14740	12	232 8	14774	12	250 1
14708	12	216 6	14741	12	233 3	14775	12	250 6
4709	12	217 2	14742	12	233 9	14776	12	251 1
			14743	12	234 4	14777	12	251 6
4710	12	217 7	14744	12	234 9	14778	12	252 1
14711	12	218 2	14745	12	235 4	14779	12	252 6
14712	12	218 7	14746	12	235 9			
14713	12	219 2	14747	12	236 4	14780	12	253 1
4714	12	219 7	14748	12	236 9	14781	12	253 6
4715	12	220 2	14749	12	237 4	14782	12	254 2
4716	12	220 7				14783	12	254 7
4717	12	221 2	1475C	12	237 9	14784	12	255 2
4718	12	221 7	14751	12	238 4	14785	12	255 7
4719	12	222 2	14752	12	238 9	14786	12	256 2
			14753	12	239 4	14787	12	256 7
4720	12	222 7	14754	12	239 9	14788	12	257 2
4721	12	223 2	14755	12	240 4	14789	12	257 7
4722	12	223 7	14756	12	240 9			
4723	12	224 2	14757	12	241 4	14790	12	258 2
4724	12	224 7	14758	12	241 9	14791	12	258 7
4725	12	225 3	14759	12	242 5	14792	12	259 2
4726	12	225 8				14793	12	259 8
4727	12	226 3	14760	12	243 0	14794	12	260 3
4728	12	226 8	14761	12	243 5	14795	12	260 8
4729	12	227 3	14762	12	244 0	14796	12	261 3
			14763	12	244 5	14797	12	261 8
4730	12	227 8	14764	12	245 0	14798	12	262 3
14731	12	228 3	14765	12	245 5	14799	12	262 8
14732	12	228 8	14766	12	246 0			
14733	12	229 3	14767	12	246 5	14800	12	263 3

Use check point at 15000 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

Frequency:	14800-1	14900 Kc

riadaanch: 14000-14300 Kc										
Freq.	A	В	Freq.	A	В	Freq.	A	В		
14800	12	263 3	14834	12	280 6	14868	12	297 8		
14801	12	263 8	14835	12	281 1	14869	12	298 3		
14802	12	264 3	14836	12	281 6					
14803	12	264 8	14837	12	282 1	14870	12	298 8		
14804	12	265 4	14B38	12	282 6	14871	12	299 3		
14805	12	265 9	14839	12	283 1	14872	12	299 8		
14806	12	266 4				14873	12	300 4		
14807	12	266 9	14840	12	283 6	14874	12	300 9		
14808	12	267 4	14841	12	284 1	14875	12	301 4		
14809	12	267 9	14842	12	284 6	14876	12	301 9		
			14843	12	285 2	14877	12	302 4		
14810	12	268 4	14844	12	265 7	14878	12	302 9		
14811	12	268 9	14845	12	286 2	14879	12	303 . 4		
14812	12	269 4	14845	12	286 7					
14813	12	269 9	14847	12	287 2	14880	12	303 9		
14814	12	270.4	14848	12	287 7	14881	12	304 4		
14815	12	271 0	14849	12	288 2	14882	12	304 9		
14816	12	271 5				14883	12	305 4		
14817	12	272 0	14850	12	288 7	14884	12	305 9		
14818	12	272 5	14851	12	289 2	14885	12	306 4		
14819	12	273 0	14852	12	289 7	14886	12	307 0		
			14853	12	290 2	14887	12	307 5		
14820	12	273 5	14854	12	290 7	14888	12	308 0		
14821	12	274 0	14855	12	291 2	14889	12	308 5		
14822	12	274 5	14856	12	291 7					
14823	12	275 C	14857	12	292 2	14890	12	309 0		
14824	12	275 5	14858	12	292 8	14891	12	309 5		
14825	12	276 0	14859	12	293 3	14892	12	310 0		
14826	12	276 5	l	_		14893	12	310 5		
14827	12	277 0	14860	12	293 8	14894	12	311.0		
14828	12	277 6	14861	12	294 3	14895	12	311 5		
14829	12	278 1	14862	12	294 8	14896	12	312 1		
			14863	12	295 3	14897	12	312 6		
14830	12	278 6	14864	12	295 8	14898	12	313 1		
14831	12	279 1	14865	12	296 3	14899	12	313 6		
14832	12	279 6	14866	12	296 8					
14833	12	280 1	14867	12	297 3	14900	12	314 1		
			l					_		

Use check point at 15000 Kc

Frequency: 14900-15000 Kc

Freq.	Α	В	Freq.	A	В	Freq.	Α	В
14900	12	314 1	14934	12	331 4	14968	12	348 8
14901	12	314 6	14935	12	331 9	14969	12	349 3
14902	12	315.1	14936	12	332 4			
14903	12	315 6	14937	12	333 0	14970	12	349 8
14904	12	316 1	14938	12	333 5	14971	12	350 3
14905	12	316 6	14939	12	334 0	14972	12	350 8
14906	12	317 2	1			14973	12	351 4
14907	12	317 7	14940	12	334 5	14974	12	351 9
14908	12	318 2	14941	12	335 0	14975	12	352 4
14909	12	318 7	14942	12	335 5	14976	12	352 9
			14943	12	336 O	14977	12	353 4
14910	12	319 2	14944	12	336 5	14978	12	353 9
14911	12	319 7	14945	12	337 0	14979	12	354 4
14912	12	320 2	14946	12	337 5			
14913	12	320 7	14947	12	338 1	14980	12	354 9
14914	12	321 2	14948	12	338 6	14981	12	355 4
14915	12	321 7	14949	12	339 1	14982	12	356 0
14916	12	322 2				14983	12	356 5
14917	12	322 8	14950	12	339 6	14984	12	357 0
14918	12	323 3	14951	12	340 1	14985	12	357 5
14919	12	323 8	14952	12	340 6	14986	12	358 0
			14953	12	341 1	14987	12	358 5
14920	12	324 3	14954	12	341 6	14988	12	359 0
14921	12	324 8	14955	12	342 2	14989	12	359 5
14922	12	325 3	14956	12	342 7	1		
14923	12	325 8	14957	12	343 2	14990	12	360 D
14924	12	326 3	14958	12	343 7	14991	12	360 6
14925	12	326 8	14959	12	344 2	14992	12	361 1
14926	12	327 3	i			14993	12	361 6
14927	12	327 9	14960	12	344 7	14994	12	362 1
14928	12	328 4	14961	12	345 2	14995	12	362 6
14929	12	328 9	14962	12	3 45 7	14996	12	363 1
			14963	12	346 2	14997	12	363 6
14930	:2	329 4	14964	12	346 8	14998	12	364 1
14931	12	329 9	14965	12	347 3	14999	12	364 6
14932	12	330 4	14966	12	347 8	l		
14933	12	330 9	14967	12	348 3	15000	12	365.2
			l			ł		

Use check point at 15000 Kc

Frequency: 15000-15100 Kc

Fréq.	Α	B	Freq.	A	В	Freq.	Α	A
15000	12	365.2	15034	12	382 4	15068	12	399 7
15001	12	365 7	15035	12	382 9	15069	12	400 2
15002	12	366 2	15036	12	383 4			
15003	12	366 7	15037	12	383 9	15070	12	400 7
15004	12	367 2	15938	12	384 5	15071	12	401 3
15005	12	367 7	15039	12	385 0	15072	12	401 8
15006	12	368 2				15073	12	402 3
15007	12	368 7	15040	12	385 5	15074	12	402 8
15008	12	369 2	15041	12	386 0	15075	12	403 3
15009	12	369 7	15042	12	386 5	15076	12	403 8
			15043	12	387 0	15077	12	404 3
15010	12	370 2	15044	12	387 5	15078	12	404 6
15011	12	370 7	15045	12	388 0	15079	12	405 4
15012	12	371 3	15046	12	388 5	Ì		
15013	12	371 8	15047	12	389 0	15080	12	405 9
15014	12	372 3	15048	12	389 5	15081	12	406 4
15015	12	372 8	15049	12	390 0	15082	12	406 9
15016	12	373 3				15083	12	407 4
15017	12	373 8	15050	12	390 5	15084	12	407 9
15018	12	374 3	15051	12	391 1	15085	12	408 4
15019	12	374 8	15052	12	391 6	15086	12	408 9
			15053	12	392 1	15087	12	409 5
15020	12	375 3	15054	12	392 6	15088	12	410 0
15021	12	375 8	15055	12	393 1	15089	12	410 5
15022	12	376 3	15056	12	393 6			
15023	12	376 B	15057	12	394 1	15090	12	411 0
15024	12	377 3	15058	12	394 6	15091	12	411 5
15025	12	377 9	15059	12	395 1	15092	12	412 0
15026	12	378 4				15093	12	412 5
15027	12	378 9	15060	12	395 6	15094	12	413 1
15028	12	379 4	15061	12	396 1	15095	12	413 6
15029	12	379 9	15062	12	396 6	15096	12	414 1
			15063	12	397 2	15097	12	414 6
15030	12	380 4	15064	12	397 7	15098	12	415 1
15031	12	380 9	15065	12	398 2	15099	12	415 6
15032	12	381 4	15066	12	398.7			
15033	12	381 9	15067	12	399 2	15100	12	416 1

Use check point at 15000 Kc

Frequency: 15100-15200 Kc

	-	_				_		
Freq.	A	В	Freq.	A	В	Freq.	Α	В
15100	12	416 1	15134	12	433 6	15168	12	451 1
15101	12	416 6	15135	12	434 1	15169	12	451 6
15102	12	417 2	15136	12	434 6			
15103	12	417.7	15137	12	435 1	15170	12	452 1
15104	12	418 2	15138	12	435 6	15171	12	452 6
15105	12	418 7	15139	12	436 2	15172	12	453 1
15106	12	419 2				15173	12	453 6
15107	12	419 7	15140	12	436 7	15174	12	454 2
15108	12	420 2	15141	12	437 2	15175	12	454 7
15109	12	420 7	15142	12	437 7	15176	12	455 2
			15143	12	438 2	15177	12	455 7
15110	12	421 3	15144	12	438 7	15178	12	456 2
15111	12	421 8	15145	12	439 2	15179	12	456 7
15112	12	422 3	15146	12	439 8			_
15113	12	422 B	15147	12	440 3	15180	12	457 2
15114	12	423 3	15148	12	440 8	15181	12	457 7
15115	12	423 8	15149	12	441 3	15182	12	458 3
15116	12	424 3	1			15183	12	458 8
15117	12	424 8	15150	12	441 8	15184	12	459 3
15118	12	425 4	15151	12	442 3	15185	12	459 8
15119	12	425 9	15152	12	442 8	15186	12	460 3
			15153	12	443 4	15187	12	460 8
15120	12	426 4	15154	12	443 9	15188	12	461 3
15121	12	426 9	15155	12	444 4	15189	12	461 8
15122	12	427 4	15156	12	444 9			
15123	12	427 9	15157	12	445 4	15190	12	462 3
15124	12	428 4	15158	12	445 9	15191	12	462 B
15125	12	429 0	15159	12	446 4	15192	12	463 4
15126	12	429 5				15193	12	463 9
15127	12	430 0	15160	12	447 0	15194	12	464 4
15128	12	430 5	15161	12	447 5	15195	12	464 9
15129	12	431 0	15162	12	448 0	15196	12	465 4
		431 5	15163	12	448 5 449 0	15197	12	465 9
15130 15131	12	432 0	15154	12	449 0	15198	12	466 4 466 9
	12		15165	12		15199	12	400 9
15132	12	432 6	15166		450 0	1.5000		467 4
15133	12	433 1	15167	12	450 6	15200	12	467 4
			<u> </u>					

Use check point at 15000 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

					~-!3	300 Ke					Freque	mch: I	-41	~-13			
	A	B	Freq.		В	Freq.		В	Freq.		В	Freq.	A	В	•	A	
ю	12	467 4	15234	12	484 8	15268	12	502 3	15400	12	570 3	15434	12	587 8	15468	12	
01	12	467 9	15235	12	485 3	15269	12	502 9	15401	12	570 8	15435	12	588 3	15469	12	
02		468 5	15236	12	485 8				15402	12	571 3	15436	12	588 8	l		
03		469 0		12	486 3	15270	12	503 4	15403	12	571 8	15437	12	589 4	15470		
04	12		15238	12	486 8	15271	12	503 9	15404	12	572 4	15438	12	589 9	15471	12	
05	12		15239	12	487 3		12	504 4	15405	12	572 9	15439	12	590 4	15472	12	
90		470 5	l				12	504 9	15406	12	573 4	ľ			15473	12	
207		471 0	15240				12	505 4	15407	12	573 9	15440	12		15474	12	
208		471 5	15241	12	488 3	15275	12	506 0	15408	12	574 4	15441	12	591 4	15475	12	
209	12	472 0		12	488 9	15276	12	506 5	15409	12	574.9	15442	12	591 9	15476	12	
			15243	12	489 4	15277	12	507 0				15443	12	592 5	15477	12	
		472 5	15244	12	489 9	15278	12	507 5	15410	12		15444	12	593 O	15478	12	
211	12	473 0	15245	12	490 4	15279	12	508 0	15411	12	576 0	15445	12	593 5	15479	12	
212	12	473 5	15246	12	490 9				15412	12	576 5	15446	12	594 0	l		
213		474 1	15247	12	-	15280		508 6	15413	12	577 0	15447	12	594 5	15480	12	
214	_	474 6	15248	12	492 0	15281	12	509 1	15414	12	577 5	15448	12		15481	12	
215		475 1	15249	12	492 5	15282	12	509 6	15415	12	578 0	15449	12	595 6	15482	12	
216	12	475 6			_	15283	12	510 T	15416	12	578 5	ĺ			15483	12	
5217	12	476 1	15250		493 0	15284	12	510 6	15417	12	579 0	15450	12		15484	12	
5218	12	476 6	15251	12	493 5	15285	12	511 t	15418	12	579 6	15451	12		15485	12	
5219	12	477 1	15252	12	494 0	15286	12	511 7	15419	12	580 1	15452	12	597 1	15486	12	
			15253	12	494 6	15287	12	512 2				15453	12	597.6	15487	12	
5220	12	477 6	15254	12	495 1	15288	12		15420	12	580 6	15454	12	598 1	15488	12	
5221	12	478 1	15256	12	495 6	15289	12	513 2	15421	12	581 1	15455	12	598 7	15489	12	•
5222	12	478 6	15256	12	496 1	i			15422	12	581 6	15456	12		l		
5223	12	479 2	15257			15290			15423	12	582 1	15457	12		15490	12	
5224	12	479 7	15258	12	497 2	15291	12		15424	12	582 6	15458	12		15491	12	
5225	12	480 2	15259	12	497 7	15292			15425	12	583 2	15459	12	600 7	15492	12	
5226	12	480 7	1			15293			15426	12	583 7				15493		
5227	12	481 2	15260		498 2	15294	12	515 8	15427	12	584 2	15460	12		15494	12	
5228	12	481 7	15261	12	498 7	15295	12	516 3	15428	12	584 7	15461	12	601 8	15495	12	:
5229	12	482 2	15262			15296	12		15429	12	585 2	15462	12		15496	12	
			15263		499 7	15297	12					15463	12	602 8	15497	12	!
5230	12	482 7	15264	12	500 3	15298	12	517 9	15430	12	585 7	15464	12	603 3	15498	12	!
5231	12	483 2	15265	12		15299	12	518 4	15431	12	586 3	15465	12	603 8	15499	12	!
5232	12	483 7	15266	12	501 3	I			15432	12	586 8	15466	12	604.3	ł		
5233	12	484 3	15267	12	501 8	15300	12	518 9	15433	12	587 3	15467	12	604.9	15500	12	!

Use check point at 15000 Ke

Use check point at 15600 Kc

	ı	Freque	ncy: 1	530	0-154	100 Kc		
Frey.	A	H	Freq.	A	B	Freq.	A	B -
15300	12	518 9	15334	12	536 4	15368	12	553 8
15301	12	519 4	15335	12	536 9	15369	12	554 3
15302	12	519 9	15336	12	537 4			
15303	12	520 5	15337	12	537 9	15370	12	554 9
15304	12	521 0	15338	12	538 4	15371	12	555 4
15305	12	521 5	15339	12	538 9	15372	12	555 9
15306	12	522 0	ł			15373	12	556 4
15307	12	522 5	15340	12	539 5	15374	12	556 9
15308	12	523 0	15341	12	540 0	15375	12	557 4
15309	12	523 5	15342	12	540 5	15376	12	557 9
			15343	12	541 0	15377	12	558 5
15310	12	524 1	15344	12	541 5	15378	12	559 0
15311	12	524 6	15345	12	542 0	15379	12	559 5
15312	12	525 1	15346	12	542 5	l		
15313	12	525 6	15347	12	543 0	15380	12	560 Q
15314	12	526 1	15348	12	543 6	15381	12	560 5
15315	12	526 6	15349	12	544 1	15382	12	561 0
15316	12	527 1				15383	12	561 5
15317	12	527 6	15350	12	544 6	15384	12	562 1
15318	12	528 2	15351	12	545 1	15385	12	562 6
15319	12	528 7	15352	12	545 6	15386	12	563 1
			15353	12	546 1	15387	12	563 6
15320	12	520 2	15354	12	546 6	15388	12	564 1
15321	12	529 7	15355	12	547 2	15389	12	564 6
15322	12	530 2	15356	12	547 7	l		
15323	12	530 7	15357	12	548 2	15390	12	565 2
15324	12	531 2	15358	12	548 7	15391	12	565 7
15325	12	531 8	15359	12	549 2	15392	12	566 2
15326	12	532 3	ļ			15393	12	566 7
15327	12	532 8	15360	12	549 7	15394	12	567 2
15328	12	533 3	15361	12	550 2	15395	12	567 7
15329	12	533 8	15362	12	550 7	15396	12	568 2
			15363	12	551 3	15397	12	568 8
15330	12	534 3	15364	12	551 8	15398	12	569 3
15331	12	534 8	15365	12	552 3	15399	12	569 8
15332	12	535 3	15366	12	552 8	l		
15333	12	535 9	15367	12	553 3	15400	12	570 3
			1					

Use check point at 15600 Kc

Freq.	Ā	В	Freq.	A	В	Freq.	A	В
15500	12	621 9	15534	12	639 4	15568	12	656 9
15501	12	622 4	15535	12	639 9	15569	12	657 4
15502	12	622 9	15536	12	640 4			
15503	12	623 4	15537	12	641 0	15570	12	658 0
15504	12	623 9	15538	12	641 5	15571	12	658 5
15505	12	624 5	15539	12	642 0	15572	12	659 (
15506	12	625 0	l			15573	12	659 5
15507	12	625 5	15540	12	642 5	15574	12	660 0
15508	12	626 O	15541	12	643 0	15575	12	660 5
15509	12	626 5	15542	12	643 5	15576	12	661 1
			15543	12	644 0	15577	12	661 6
15510	12	627 0	15544	12	644 6	15578	12	662 1
15511	12	627 6	15545	12	645 1	15579	12	662 (
15512	12	628 1	15546	12	645 6			
15513	12	628 6	15547	12	646 1	15580	12	663
15514	12	629 1	15548	12	646 6	15581	12	663 (
15015	12	629 6	15549	12	647 1	15582	12	664
15516	12	630 1	l			15583	12	664
15517	12	630 6	15550	12	647 7	15584	12	665
15518	12	631 2	15551	12	648 2	15585	12	665
15519	12	631 7	15552	12	648 7	15586	12	666
			15553	12	649 2	15587	12	666
15520	12	632 2	15554	12	649 7	15588	12	667
15521	12	632 7	15555	12	650 2	15589	12	667
15522	12	633 2	15556	12	650 7			
15523	12	633 7	15557	12	651 3	15590	12	668
15524	12	634 3	15558	12	651 8	15591	12	668
15525	12	634 8	15559	12	652 3	15592	12	669
15526	12	635 3				15593	12	669
15527	12	635 8	15560	12	652 8	15594	12	670
15528	12	636 3	15561	12	653 3	15595	12	670 8
15529	12	636 8	155F2	12	653 8	15596	12	671
		-	15563	12	654 4	15597	12	671 5
15530	12	637 3	15564	12	654 9	15598	12	672
15531	12	637 9	15565	12	655 4	15599	12	672
15532	12	638 4	15566	12	655 9	(`		
15533	12	638 9	15567	12	656 4	1 5 ECO	12	673.4

Use check point at 15600 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

			, 03		,	*****												
	ı	reque	ncy: 1	560	0 —157	700 Kc					frequ	/01	жу: 1.	580	0 -159	200 Kc		
Freq.	A	B	Freq.	Α	B	Freq.	<u> </u>	8	Freq		B	Т	Freq.	Ä	В	Freq.	A	В
15600	12	673.4	15634	12	690 9	15668	12	708 4	15800	1:	776		15834	12	793 B	15868	12	B11 4
15601	12	673 9	15635	12	691 4	15669	12	706 5	15801	1:	776	9	15835	12	794.3	15859	12	
15602	12	674 4	15636	12	691 9	1			15902	1:	777	3	15836	12	794 8			
15603	12	675 O	15637	12	692 4	15670	12	709	15803	11	777	e	15837	12	795 3	15870	12	812 4
15604	12	675 5	15638	12	692 9	15671	12	709 1	15804	1:	778	3	15838	12	795 8	15871	12	812.5
15605	12	676 O	15639	12	693 5	15672	12	710 -	15805	1:	778 8	8	15839	12	796.3	15872	12	813 4
15606	12	676 5	1			15673	12	711 (15806	1:	779	4				15873	12	814.0
15607	12		15640	12	694 0	15674	12	711	16907	11	779 9	9	15840	12	796 9	15874	12	814.5
15600		677 5	15641	12	694 5	15675	12	712	15806	1:	760 4	٠.	15841	12	797 4	15875	12	815.0
15609	12	678 C	15642	12	695 0	15676	12	712	15809	11	780 !	9	15842	12	797 9	15876	12	815 5
			15643	12	695 6	15677	12	713				- 1	15843	12	798 4	15877	12	816 (
15610		678 6	15644	12	696 O	15678		713	15810) 1	2 781	4	15844	12	798 9	15678	12	816 6
15611	12	679 1	15645	12	696 6	15679	12	714	15811	1:	2 781	9	15845	12	799 5	15879	12:	817.1
15612	12		15646	12	697 0	1			15812	1	782	4	15846	12	800 C			
15613	12	690 1	15647	12	6 97 6	15680	12	714	16813	1	783	0	15847	12	800 5	15860	12	B17 (
15614	12	680 G	15648	12	698 1	15681	12	715	15014	1:	2 283	6	15848	12	801 0	15881	12	618
15615	12	681 I	15649	12	698 6	15682	12	715	1581	1	784	٥Į	15849	12	801 5	15882	12	818
15616	12	681 6				15683	12	716	15810	5 1	784	5				15883	12	819
15617	12	682 2	15650	12		15684	12	716	1581	7 1	785	이	15850	12	B02 0	15884	12	619
15618	12	582 7	15651	12	699 6	15685	12	717.	1581	3 1	2 785	5	15851	12	802 6	15885	12	620
15619	12	683 2	15652	12	700 1	15686	12	717	1561	9 1	2 786	۱ ٥	15852	12	803 1	15886	12	820
			15653	12		15687	12					l	15853	12	90 3 6	15887	12	821
15620	12		15654					718	1582	3 1	2 786	6	15854	12	804 1	15888	12	821
15621	12	684 2	15655				12	719	1582	1 1	2 787	١l	15655	12	804 6	15889	12	822
15622	12		15656						1582	2 †	2 787.	6	15856	12	805.2			
15623	12		15657						1582	3 1	2 789.	1	15857	12	805.7	15890	12	822
15624	12		15658	_		15691	12		1582	4 1	2 788	6	15858	12	806 2	15891	12	823
15625	12		15659	12	703 7	15692	12		1582	5 1	2 789	1	15859	12	806 7	15892	12	823
15626	12		1			15693	12		1582		2 789					15893	12	824
15627	12		15660				12		1582		2 790.	2	15860	12		15894	12	
15628	12		15661				12		1582		2 790		15861	12	807 7	15895	12	825
15629	12	6 88 3	15662				12		1582	9 1	2 : 791	2	15862	12	808 3	15896	12	825
			15663				12					- 1	15853	12	808 8	15897	12	B26
15630			15664				12		1583	0 1	2 791	7]	15864	12	809 3	15898	12	826
15631	12						12	724	1583	1 1	2 792	2	15865	12	B09 8	15899	12	827
15632	12		15666			1			1583	2 1	2 792	7	15866	12	810 3	1		
15633	12	690 4	15667	12	707.9	15700	12	724	1583	3 1	2 793	3 I	15867	12	810.9	15900	12	826

Use check point at 15400 Kc

Use check point at 15400 Ke

Frequency:	15700	15800	Κ¢
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Freq.	A	В	Freq.	A	В	Freq.	A	B
15700	12	724 9	15734	12	742 4	15768	12	759 8
15701	12	725 4	15735	12	742 9	15769	12	760 3
15702	12	726 0	15736	12	743 4			
15703	12	726 5	15737	12	744 0	15770	12	760 B
15704	12	727 0	15738	12	744 5	15771	12	761 4
15705	12	727 5	15739	12	745 0	15772	12	761 9
15706	12	728 Q				15773	12	762 4
15707	12	728 5	15740	12	745 5	15774	12	762 9
15708	12	729 1	15741	12	746 0	15775	12	763 4
15709	12	729 6	15742	12	746 5	15776	12	763 9
			15743	12	747 0	15777	12	764 4
15710	12	730 1	18744	12	747 5	15778	12	764 9
15711	12	730 6	15745	12	748 1	15779	12	765 4
15712	12	731 1	15746	12	748 6	1		
15713	12	731 6	15747	12	749 1	15780	12	766 O
15714	12	732 2	15748	12	749 6	15781	12	766 5
15715	12	732 7	15749	12	750 1	15762	12	767 0
15716	12	733 2	l .			15783	12	767 5
15717	12	733 7	15750	12	750 6	15764	12	765 0
15718	12	734 2	15751	12	751 1	15785	12	768 5
15719	12	734 7	15752	12	751 6	15786	12	769 1
			15753	12	752 1	15787	12	769 6
15720	12	735 3	15754	12	752 7	15788	12	770 1
15721	12	735 8	15755	12	753 2	15789	12	770 G
15722	12	736 3	15756	12	753 7			
15723	12	736 8	15757	12	754 2	15790	12	77 1 1
15724	12	737 3	15758	12	754 7	15791	12	771 6
15725	12	737 8	15759	12	755 2	15792	12	772 1
15726	12	738 3				15793	12	772 7
15727	12	738 8	15760		755 7	15794	12	773 2
15728	12	739 4	15761	12	756 2	15795	12	773 7
15729	12	739 9	15762	12	756 8	15796	12	774 2
			15763		757 3	15797	12	774 7
15730	12	740 4	15764	_	757 B	15798	12	775 2
15731	12	740 9	15765		758 3	15799	12	775 7
15732	12	741 4	15766		758 8	1		
15733	12	741 9	15767	12	759 3	15800	12	776 3
								<u>.</u>

Use check point at 15600 Ke

Frequency: 15900-16000 Kc

Freq.	A	B	Freq.	A	В	Freq.	A	B
15900	12	828 Q	15934	12	845.4	15968	12	B62 8
15901	12	828 5	15935	12	845 9	15969	12	863.3
15902	12	829 Q	15936	12	846 4			
15903	12	B29 5	15937	12	847 0	15970	12	863 B
15904	12	830 0	15938	12	B47 5	15971	12	864 3
15905	12	830 5	15939	12	848.0	15972	12	864 B
15906	12	831 O				15973	12	865 3
15907	12	831 6	15940	12	848 5	15974	†2	865 8
15908	12	B32 1	15941	12	849 D	15975	12	866 4
15909	12	832 6	15942	12	849 5	15976	12	666 9
			15943	12	850 0	15977	12	B67 €
15910	12	833 1	15944	12	850 5	15978	12	867 9
15911	12	833 6	15945	12	851 1	15979	12	868 4
15912	12	834 1	15846	12	851 6			
15913	12	834 6	15947	12	852 1	15980	12	868 9
15914	12	835 1	15948	12	852 6	15981	12	869 4
15915	12	835 7	15949	12	653 1	15982	12	869 9
15916	12	836.5				15963	12	870 4
15917	12	836 7	15950	12	853 6	15964	12	870 9
15918	12	837 2	15951	12	854 1	15985	12	871 4
15919	12	837.7	15952	12	854 7	15986	12	B71 9
			15953	12	855 2	15987	12	872.4
15920	12	838 2	15954	12	855 7	15988	12	872 9
15921	12	838 7	15955	12	856 2	15989	12	873 4
15922	12	839 3	15956	12	856 7			
15923	12	B39 B	15957	12	857 2	15990	12	874 0
15924	12	840.3	15958	12	857 7	15991	12	874 5
15925	12	840 B	15959	12	858 2	15992	12	B75.0
15926	12	841 3				15993	12	875 5
15927	12	841 B	15960	12	658 8	15994	12	876 0
15928	12	842 3	15961	12	659 3	15995	12	876 5
15929	12	842 8	15962	12	859 8	15996	12	877 0
			15963	12	860 3	15997	12	B77 5
15930	12	843 4	15964	12	860 B	15998	12	878 0
15931	12	843 9	15965	12	861 3	15999	12	878.5
15932	12	844 4	15966	12	861.8			
15933	12	844 9	15967	12	862 3	16000	12	879.0

Use check point at 14200 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

		Frequ	ency: 1	60	DO-16	100 K	:		Frequency: 16200-16300 Kc								
Freq.		В	Freq.	٨	В	Freq.	٨	Ð	Freq.	A	В	Freq.	٨	В	Freq.	<u> </u>	В
6000		879 0	16034	12	896 3	16068	12	913 \$	18260	12	981.4	16234	12	998.7	16268	12	1016
6001	12	879 5	16035	12	896 9	16069	12	914 4	16201	12	981.9	16235	12	999.2			1010
6002	12	880 O	16036	12	897 4				16202	12	982.4	16236		999.7			
6003	12	880 5	16037	12	897 9	15070	12	914 9	16203	12	982.9	16237	12	1000.2	16270	12	101
6004		551 0	16038	12	898 4	16071	12	915 4	16204	12	963.4			1000.7			101
6005	12	881 5	16039	12	898 9	16072	12	915 9	16205	12	983.9	16239			16272		
6006	12	882 1	l			1607.3	12	916 4	16206	12	984.4				16273		
6007	12	882 6	16040	12	899 4	16074	12	916 9	16207	12	984.9	16240	12	1001.8			101
6008	12	883 1	16041	12	899 9	16075	12	917 4	16208	12	965.4	16241		1002.3			1011
6009	12	883 6	15042	12	900 5	16076	12	918 0	16209		986.0			1002.8			1020
			16043	12	901 0	16077	12	918 5						1003.3	16277		
6010	12	884 1	16044	12	901 5	16078	12	919 0	16210	12	986.5	16244		1003.8	16278		
6011	12	884 6	16045	12	902 0	16079	12	919 5	16211	12	987.0			1004.3	16279		
6012	12	885 1	16046	12	902 5				15212	12	987.5			1004.8		-	
6013	12	885 6	16047	12	903 0	16080	12	920 0	16213		968.0			1005.3	16280	12	102
6014	12	886 1	16048	12	903 6	16081	12	920 5	16214		988.5	16248		1005.8	16281	12	102
6015	12	886 6	16049	12	904 1	16082	12	921 0	16215		989 0	16249		1006.4	16282		102
6016	12	887 1	l			16083	12	921 6	16216		989.5		-		16283		102
6017	12	887 6	16050	12	904 6	16084	12	922 1	16217		990.0	16250	12	1006.7	16284	12	102
6018	12	888 1	16051	12	905 1	16085	12	922 6	16218		990.5	16251		1007.4	16265	_	102
6019	12	888 6	16052	12	905 6	16086	12	923 1	16219		991.1			1007.9	16296	12	
			16053	12	906 1	16087	12	923 6		•				1906.4	16287		
6020	12	889 1	16054	12	906 6	16088	12	924 1	16220	12	991.6			1008.9	16288		102
6021	12	889 7	16055	12	907 2	16089	12	924 6	16221		992.1	15255		1009.4			102
6022	12	890 2	16056	12	907 7				16222		992.6	18256		1009.9	'0203	-	102
6023	12	890 7	16057	12	906 2	16090	12	925 1	16223		993.1	16257		1010.4	16290		
6024	12	891 2	16058	12	908 7	16091	12	925 6	16224		993.6	16258		1010.9	16291	12	102
5025	12	891 7	16059	12		16092	12		16225		994.1			1011.5	16292		102
6026	12	892 2				16093		926 7	16226		994.6	10233	•	1011.5	16293		102
6027	12	892 7	16060	12	909 7	16094	12	927 2	16227		995.1	16260	12	1012.0	16294		102
6028		893 3	16061	12	910 2	16095	12		16228		995.6	16261		1012.5	16295	12	
6029		993 B	16062	12		16096	12	928 2	16229		996.2			1013.0	16296	-	
	-		16063	12	911 3	16097	12	928 7	10229	12	330.2			1013.5		12	103
6030	12	894 3	16064	12	911 8	16098	12	929 2	15230	12	996.7			1014.0	16298		
6031	12	894 8	16065		912 3	16099	12		16230		997.2			1014.5			103
6032	12	895 3	16066		912 8		•-		16232		997.9	16266		1015.0	16299	12	103
		895 8	16067			16100	12	930-2	16233								
					3		•	*** *	10233	12	998.2	1020/	12	1015.5	16300	12	10.3

Use check point at 14200 Kc

Use check point at 16200 Kc

frequency:	16100-16200	Κ¢
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req.	A	В	Freq.	A	В	Freq.	A	B						
16100	12	930 2	16134	12	947 6	16168	12	965 0						
16101	12	930 7	16135	12	948 1	16169	12	965 5						
16102	12	931 3	16136	12	948 6									
16103	12	931 8	16137	12	949 1	16170	12	966 0						
16104	12	932 3	16138	12	949 6	16171	12	966 5						
16105	12	932 B	16139	12	950 1	16172	12	967 0						
16106	12	933 3				16173	12	967 5						
16107	12	933 B	15140	12	950 7	15174	12	968 1						
16108	12	934 3	16141	12	951 2	16175	12	968 6						
16109	12	934 8	16142	12	951 7	15176	12	969 1						
			16143	12	952 2	16177	12	969 6						
16110	12	9 35 3	16144	12	952 7	16178	12	970 1						
16111	12	935 9	16145	12	953 2	16179	12	970 6						
16112	12	936 4	16146	12	953 7	Ì								
16113	12	936 9	16147	12	954 2	16180	12	971 1						
16114	12	937 4	15:48	12	954 B	16181	13	971 6						
16115	12	937 9	16149	12	955 3	16182	12	972 2						
16116	12	938 4	i			16183	12	972 7						
16117	12	938 9	15150	12	955 8	16184	12	973 2						
16118	12	939 4	16151	12	956 3	16185	12	973 7						
16119	12	939 9	16152	12	956 8	16186	12	974 2						
			16153	12	957 3	16187	12	974 7						
16120	12	940 4	16154	12	957 8	16188	12	975 2						
16121	12	941 0	16155	12	958 3	16189	12	975 7						
16122	12	941 5	16156	12	958 8	l								
16123	12	942 0	15157	12	959 4	16190	12	976 2						
16174	12	942 5	16158	12	959 9	16191	12	976 8						
16125	12	943 0	16159	12	960 4	16192	12	977 3						
16126	12	943 5	l			16193	12	977 8						
16127	12	944 Q	16160	12	960 9	16194	12	978 3						
16128	12	944 5	16161	12	961 4	16195	12	978 6						
16129	12	945 0	16162	12	961 9	16196	12	979 3						
			16163	12	962 4	16197	12	979 8						
16130	12	945 6	16164	12	962 9	16198	12	980-3						
16131	12	946 1	16165	12	963 5	16199	12	960 B						
16132	12	946 6	16:66	12	964 0	l								
16133	12	947 1	16167	12	964 5	16200	12	961.4						
			1			l								

Use check point at 18200 Ke

Frequency: 16300-16400 Kc

Free	4.	Α	B	Freq.	Α	В	Freq.	Α	В
1630	0	12	1032.3	16334	12	1049.6	16368	12	1066.9
1630	1	12	1032.8	16335	12	1050.1	16369	12	1067.4
1630	2	12	1033.3	16336	12	1050.6	!		
1630	13	12	1033.8	16337	12	1051.1	16370	12	1067.9
1630	×	12	1034.3	16338	12	1051.6	16371	12	1068.4
1630		12	1034 9	18339	12	1052.1	16372	12	1068.9
1630		12	1035.4	ŀ			16373	12	1069.4
1630		12	1035.9	16340	12	1052.6	16374	12	1059.9
1630		12	1035.4	16341	12	1053.2	16375	12	1070.4
1630	19	12	1036.9	15342	12	1053.7	16376	12	1070 9
				16343	12	1054.2	16377	12	1071 5
1631		12	1037.4	16344	12	1054.7	16378	12	1072.0
1631		12	1037.9	16345	12	1055.2	16379	12	1072.5
1631	-	15	1038.4	16346	12	1055.7	l		
1631		15	1038 9	16347	12	1056.2	16380	12	1073.0
1631		12	1039.4	16348	12	1056.7	16381	12	1073.5
1631		12	1039.9	16349	12	1057.2	16382	12	1074.0
1631		12	1040.4		_		16383	12	1074.5
1631		12	1041.0	16350	12	1057.7	16384	12	1075.0
1631		12	1041.5	16351	12	1058.2	16385	12	1075.5
1631	9	12	1042.0	16352	12	1058.7	16386	12	1076 0
	_			16353	12	1059.3	16387	12	1076 5
1632		12	1042.5	16354	12	1059.8	16388	12	1077:0
1632		12	1043.0	16355	12	1060.3	16389	12	1077.5
1632		12	1043.5	16356	12	1060.8	Ι.		
1632		12	1044.0	16357	12	1061.3	16390	12	1078.1
1632		12	1044.5	16358	12	1061.8	16391	12	1078.6
1632		12	1045.0	16359	12	1062.3	16392	12	1079.1
1632		12	1045.5				16393	12	1079.6
1632		12	1046 0	16360	12	1062.8	16394	12	1080.1
1632		12	1046.5	16361	12	1063.3	16395	12	1080.6
1632		12	1047.1	16362 16363	12	1063.8	16396 16397	12	1081.1
1633			1047 6			1064.3		12	1081.6
1633		12	1048.1	16364 16365	12	1064.8	16398	12	1082.1
1633		12	1048.1	16366	12	1065.4 1065.9	16399	12	1082.6
1633		12							1002 -
	•	12	1049.1	16367	12	1066.4	16400	12	1083.1

Use check point at 16300 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

		Freque	ncy: 1	640	XX—165	00 Kc			Frequency: 16600—16700 Kc									
теа.	Α	В	Freq.	A	В	Freq.	A	В	Freq		4	В	Freq.	Α	B	Freq.	_	В
6400	12	1083.1	16434	12	1100.4	16468	12	1117.6	16600) 1	2	1184.4	15634	12	1201.5	16668	12	121
6401	12	1083.6	16435	12	1100.9	16469	12	1118.1	1660	1	2	1184.9	16635	12	1202.1	16669	12	121
6402	12	1084.1	16436	12	1101.4				16603	1	2	1185.4	16636	12	1202.6	l		
6403	12	1084.7	16437	12	1101.9	16470	12	1118.6	1660	3 1	2	1185.9	16637	12	1203.1	16670	12	121
6404	12	1085.2	16438	12	1102.4	16471	12	1119.1	1660	ŀī	2	1186.4	15638	12	1203.6	16671	12	122
6405	12	1085.7	16439	12	1102.9	16472	12	1119.7	1660) 1	2	1186.9	16639	12	1204.1	16672	12	122
6406	12	1086.2	ł			16473	12,	1120.2	1660	3 1	2	1187.4				16673	12	12
6407	12	1085.7	16440	12	1103.4	16474	12	1120.7	1660	, ,	2	1187.9	16640	12	1204.6	16674	12	122
6408	12	1087.2	16441	12	1103.9	16475	12	1121.2	1660	3 1	2	1188.4	16641	12	1205.1	16675	12	127
16409	12	1087.7	16442	12	1104.5	16476	12	1121.7	1660	3 1	2	1188.9	16642	12	1205.6	16676	12	127
			16443	12	1105.0	16477	12	1122.2					16643	12	1206.1	16677	12	127
16410	12	1088.2	16444	12	1105.5	16478	12	1122.7	1661) 1	2	1189.4	16544	12	1206.6	16678	12	12
16411	12	1088.7	16445	12	1106.0	16479	12	1123.2	1661	١ ١	2	1189.9	16645	12	1207.1	16679	12	12
16412	12	1089.2	16446	12	1106.5	Į .			1651	2 1	2	1190.4	16646	12	1207.6	1		
16413	12	1089.7	16447	12	1107.0	16480	12	1123.7	1661	3 1	2	1190.9	16647	12	1208.1	16680	12	12
16414	12	1090.2	16448	12	1107.5	16481	12	1124.2	1661	. 1	2	1191.4	16648	12	1208.7	16681	12	12
6415	12	1090.7	16449	12	1106.0	16482	12	1124.7	1661	, ,	2	1191.9	16649	12	1209.2	16682	12	12
6416	12	1091.3	l			16483	12	1125.2	1661	5 1	2	1192.4	l			16683	12	12
6417	12	1091.8	16450	12	1108.5	16484	12	1125.7	1661	7 1	2	1192.9	16650	12	1209.7	16634		
6418	12	1092.3	16451	12	1109.0	16485	12	1126.2	1661	8 1	2	1193.4	16651	12	1210.2	16685	12	12
16419	12	1092.8	16452	12	1109.5	16486	12	1126.7	1661	9 1	2	1193.9	16652	12	1210.7	16686	12	12
			16453	12	1110.0	16487	12	1127.3					16653	12	1211.2	16687		
16420	12	1093.3	16454	12	1110.5	16488	12	1127.8	1662) 1	2	1194.4	16654	12	121t.7	16688	12	12
16421	12	1093.8	16455	12	1111.0	16489	12	1128.3	1662	1 1	2	1194.9	16655	12	1212.2	16689	12	12
16422	12	1094:3	16456	12	1111.5	1			1662	2 1	2	1195.5	16656	12	1212.7	i i		
6423	12	1094.8	16457	12	1112.1	16490	12	1128.8	1662	3 1	2	1196.0	16657	12	1213.2	16690	i2	12
16424	12	1095.3	16458	12	1112.6	16491	12	1129.3	1662	1	2	1196.5	16658	12	1213.7	16691	12	12
16425	12	1095.8	15459	12	1113.1	16492	12	1129.8	1 6 62	5 1	2	1197.0	16659	12	1214.2	16692	12	12
16426	12	1096.3				16493	12	1130.3	1662	6 1	2	1197.5				16693	12	12
16427	1 12	1096.8	16460	12	1113.6	16494	12	1130.8	1662	7 1	2	1198.0	16660	12	1214.7	16694	12	12
16428	12	1097.3	16461	12	2 1114.1	16495	17	1131.3	1662	8 1	2	1198.5	16661	12	1215.3	16695	12	12
16429	12	1097.9	16462	12	1114.6	16496	12	1131.8	1662	9 1	2	1199.0	16662	12	1215.8	16696	12	12
					1115.1		17	1132.3					16663	12	1216.3	16697	12	12
16430	12	1098.4			1115.6		12	1132.8	1663	0 1	15	1199.5	16664	12	1216.8	16698	12	12
		1098.9		12	2 1116.1	16499	12	1133.3	1663	1 1	2	1200.0	16665	12	1217.3	16699	12	12
		1099.4		1:	2 1116.6	1			1663	2 1	2	1200.5	16666	12	1217.8	1		
		1099.9		17	2 1117.1	16500	11	1133.8	1663	3 1	12	1201.0	16667	12	1218.3	16700	12	12

Use check point at 14200 Kc

Use check point at 16800 Kc Frequency: 16700-16800 Kc

Frequency:	16500-16600	Κc
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Freq.	٨	В	Freq.	A	В	Freq.	A	В
16500	12	1133.8	16534	12	1151.1	16568	12	1168.2
16501	12	1134.3	16535	12	1151.6	16569	12	1168.8
16502	12	1134.9	16536	12	1152.1			
16503	12	1135.4	16537	12	1152.6	16570	12	1159.3
16504	12	1135.9	16538	12	1153.1	16571	12	1169.8
16505	12	1136.4	16539	12	1153.6	16572	12	1170.3
16506	12	1136.9				16573	12	1170.8
16507	12	1137.4	16540	12	1154.1	16574	12	1171.3
16508	12	1137.9	16541	12	1154.6	16575	12	1171.8
16509	12	1138.4	16542	12	1155.1	16576	12	1172.3
			16543	12	1155.6	16577	12	1172.8
16510	12	1138.9	16544	12	1156.1	16578	12	1173.3
16511	12	1139.4	16545	12	1155.6	16579	12	1173.8
16512	12	1139.9	16546	12	1157.1	l		
16513	12	1140.4	16547	12	1157.6	16580	12	1174.3
16514	12	1140.9	16548	12	1158.1	16581	12	1174.8
16515	12	1141,4	16549	12	1158.7	16582	12	1175.3
16516	12	1141,9				16583	12	1175.8
16517	12	1142.4	16550	12	1159.2	16584	12	1176.3
16518		1143.0	16551	12	1159.7	16585	12	1176.8
16519	12	1143.5	16552	12	1160.2	16586	12	1177.3
			16553	12	1160.7	16587	12	1177.8
16520		1144.0	16554		1161.2	16588	12	1178.3
16521	12	1144.5	16555	12	1161.7	16589	12	1178.8
16522		1145.0	16556		1162.2			
16523			16557		1162.7	16590		
16524			16558		1163.2	16591	12	
16525			16559	12	1163.7	16592	12	1180.3
16526			L			16593	12	
16527			16560			15594		
16528			16561	12		16595		
16529	12	1148.5	16562			16596		
			16563			16597		
16530			16564	_		16598		
16531			16565			15599	12	1183.9
16532			16566			1		
16533	12	1150.5	16567	12	1167.7	16600	12	1184.4
			1			1		

Use check point at 16800 Kc

	1 /													
Freq.	A	В	Freq.	Α	В	Freq.	A	В						
16700	12	1235.0	16734	12	1252.1	16768	12	1269.2						
16701	12	1235.5	16735	12	1252.6	16769	12	1269.7						
16702	12	1235.0	16736	12	1253.1									
16703	12	1236.5	16737	12	1253.6	16770	12	1270.2						
16704	12	1237.0	16738	12	1254.1	16771	12	1270.7						
16705	12	1237.5	16739	12	1254.6	16772	12	1271.2						
16706	12	1238.0	ļ			16773	12	1271.7						
16707	12	1238.5	16740	12	1255.1	16774	12	1272.2						
16708	12	1239.0	16741	12	1255.6	16775	12	1272.7						
16709	12	1239.5	16742	12	1256.1	16776	12	1273 2						
			16743	12	1256.6	16777	12	1273.7						
16710	12	1240.0	16744	12	1257.1	16778	12	1274.2						
16711	12	1240.5	16745	12	1257.6	16779	12	1274.7						
16712	12	1241.0	16746	12	1258.1									
16713	12	1241.5	16747	12	1258.6	16780	12	1275.2						
16714	12	1242.0	16748	12	1259.1	16781	12	1275.7						
16715	12	1242.5	16749	12	1259.6	16782	12	1276.2						
16716	12	1243.0	!			16783	15	1276.7						
16717	12	1243.5	16750	12	1260.1	16784	12	1277.2						
16718	12	1244.0	16751	12	1260.6	16785	12	1277.8						
16719	12	1244.5	16752	12	1261.1	16785	12	1278.3						
			16753	12	1261.6	16787	12	1278.8						
16720	12	1245.0	16754	12	1262.1	16788	12	1279.3						
16721	12	1245.5	16755	12	1262.7	16789	12	1279.8						
16722	12	1246.0	16756	12	1263.2									
16723	12	1246.5	16757	12	1263.7	16790	12	1280.3						
16724	12	1247.0	16758	12	1264.2	16791	12	1280.8						
16725	12	1247.6	16759	12	1264.7	16792	12	1281.3						
16726	12	1248.1				16793	12	1281.6						
16727	12	1248.6	16760	12	1265.2	16794	12	1282:3						
16728	12	1249.1	16761	12	1265.7	16795	12	1282.8						
16729	12	1249.6	16762	12	1265.2	16796	12	1283.3						
			16763	12	1266.7	16797	12	1283.8						
16730	12	1250.1	16764	12	1267.2	16798	12	1284.3						
16731	12	1250.6	16765	12	1267.7	16799	12	1284.8						
16732	12	1251.1	16766	12	1268.2									
16733	12	1251.6	16767	12	1268.7	16880	12	1205.3						
			I			I								

Use check point at 14800 Kr

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

Frequency: 16800—16900 Kc						Frequency: 17000—17100 Kc												
Teq.	A	В	Freq.	A	В	Freq.	_	B	Free	7.	Α	В	Freq.	A	В	Freq.	Ā	B
		1285.3			1302.5			1319.7	1700	0	12	1386.4	17034	12	1403.6	17068	12	142
		1285.8			1303.0			1320.2	1700			1386.9	17035	12	1404.1	17069	12	142
		1286.3			1303.5	10000			1700			1387.4	17036	12	1404.6	ì		
		1286.8			1304.0	16870	12	1320.7	1700			1387.9			1405.1	17070		
		1287.3			1304.5	16871		1321.2	1700			1388.4			1405.6	17071		
		1287.8			1305.0			1321.7	1700			1388.9	17039	12	1406.1	17072		
		1288.3						1322.2	1700			1389.4				17073	12	147
		1288.8	±6840	12	1305.5			1322.7	1700			1389.9	17040	12	1406.6	17074	12	14
		1289.3			1306.0			1323.2	1700	8 1	12	1390.4	17041	12	1407.1	17075	12	149
		1289.9			1306.6			1323.7	1700	9 1	12	1390.9	17042	12	1407.6	17076	12	147
					1307.1	16877		1324.2							1408.1	17077	12	14
810	12	1290.4			1307.6			1324.8	1701	0	12	1391.4			1408.6	17078	12	14
		1290.9			1308.1			1325.3	1701	1	12	1391.9	17045	12	1409.1	17079	12	14
		1291,4			1308.6	'**''		. 020.0	1701	2	12	1392.5	17046	12	1409.6			
		1291.9			1309.1	16880	12	1325.8	1701	3	12	1393.0	17047	12	1410.2	17080	12	14
		1292.4			1309.6			1326.3	1701	4	12	1393.5	17048	12	1410.7		12	
		1292.9			1310.1	16882		1326.8	1701	5	12	1394.0	17049	12	1411.2	17082	12	14
		1293.4	100.0		1010.1	16883		1327.3	1701	6	12	1394.5				17083	12	14
		1293.9	16850	19	1310.6	16884		1327.8	1701	7	12	1395.0	17050	12	1411,7	17084	12	14
		1294,4			1311.1	15885		1328.3	1701	8	12	1395.5	17051	12	1412.2	17065		14
		1294.9			1311.6	16886		1328.8	1701	9	12	1396.0			1412.7	17086	12	
110	12	237.5			1312.1	16887		1329.3							1413.2	17087		14
820	12	1295.4			1312.6	16888		1329.8	170	20	12	1396.5	17054	12	1413.7	17088		14
821		1295.9			1313.1			1330.3				1397.0			1414.2	17069		
		1295.9			1313.6	10889	12	1330.3				1397.5			1414.7			
B23		1296.9			1314.1			1330.8				1398.0			1415.2	17090	12	1/
		1290.9			1314.6			1331.3				1398.5			1415.7	17091		14
		1298.0			1315.2	16892		1331.B				1399.0	17059	12	1416.2	17092		
		1298.5	10003	12	1313.2			1332.3	170	26	12	1399.5	```			17093		
		1299.0	16960	19	1315.7			1332.8	1700	?7	12	1400.0	17060	12	1416.B		12	
828		1299.5			1316.2			1333.3				1400.5			1417.3	17095		1/
829		1300.0			1316.7			1333.8	170			1401.0			1417.8	17096		10
069	12	1300.0			1317.2					-					1418.3	17097		2
מכם	12	1300.5			1317.2			1334.3 1334.9	170	30	12	1401.5			1418.8	17098		
831		1300.5			1317.7							1402.1			1419.3	17099		
832		1301.5			1318.2	10039	12	1335.4				1402.6			1419.8		•••	
								1275.0				1403.1			1420.3	17100	12	1 1 1
بد	12	1302.0	1000/	12	1319.2	16900	12	1335.9					1	-		H	<u> </u>	

Freq.	Ā	В	Freq.	A	В	Freq.	4	В
16900	12	1335.9	16934	12	1353.0	16968	12	1370.2
16901	12	1336.4	16935	12	1353.5	16969	12	1370.7
16902	12	1336.9	16936	12	1354.0			
16903	12	1337.4	16937	12	1354.6	16970	12	1371.2
15904	12	1337.9	16938	12	1355.1	16971	12	1371.7
16905	12	1338.4	†693 9	12	1355.6	16972	12	1372.2
16906	12	1338.9				16973	12	1372.7
16907	12	1339.4	16940	12	1356.1	16974	12	1373.2
16908	12	1339.9	16941	12	1356.6	16975	12	1373.8
16909	15	1340.4	16942	12	1357.1	16375	12	1374.3
			16943	12	1357.6	16977	12	1374,8
16910	12	1340.9	16944	12	1358.1	16978	12	1375.3
16911	12	1341.4	16945	12	1358.6	16979	12	1375.8
16912	12	1341.9	16946	12	1359.1	ł		
16913	12	1342.4	16947	12	1359.6	16980	12	1376.3
16914	12	1342.9	16948	12	1360.1	16981	12	1376 8
16915	12	1343.4	16949	12	1360.6	16982	12	1377.3
16916	12	1343.9				16983	12	1377.8
16917	12	1344.4	16950	12	1361.1	16984	12	1378.3
16918	12	1345.0	16951	12	1361.6	16985	12	1378.8
16919	12	1345.5	16965	12	1352.1	16986	12	1379.3
			16953	12	1362.6	16987	12	1379.8
16920	12	1346.0	16954	12	1363.1	16988	12	138Q.3
16921	12	1346.5	16955	12	1363,6	16989	12	1380.8
16922	12	1347.0	16956	12	1364.2	l		
16923	12	1347.5	15957	12	1364.7	16990	12	1381.3
16924	12	1348.0	16958	12	1365.2	16991	12	1381.8
16925	12	1348.5	16959	12	1365.7	16992	12	1382.3
16926	12	1349.0				16993	12	1382.8
16927	12	1349.5	16960	12	1366.2	16994	12	1383.4
16928	12	1350.0	16961	12	1366.7	16995	12	1383.9
16929	12	1350.5	16962	12	1367.2	16336	12	1394.4
			16963	12	1367.7	16997	12	1384.9
16930	12	1351 0	16964	12	1368.2	16998	12	1385.4
16931	12	1351.5	16965	12	1368.7	16999	12	1385.9
16932	12	1352.0	16966	12	1369.2	l		
16933	12	1352.5	16967	12	1369.7	17000	12	1386.4

Use check point at 16600 Ke

Frequency: 17100-17200 Kc Freq. A B Freq. 17110 12 1442.2 17144 12 1459.5 17111 12 1442.7 17145 12 1460.0 17112 12 1443.2 17146 12 1460.0 17113 12 1443.2 17146 12 1460.0 17114 12 1443.2 17147 12 1461.0 17115 12 1444.2 17148 12 1461.5 17115 12 1444.7 17149 12 1462.0 17180 12 1477.8 17181 12 1478.3 17182 12 1478.8 17183 12 1479.3 17184 12 1479.3 17115 12 1445.2 17116 12 1445.2 17117 12 1445.2 17118 12 1446.2 17151 12 1462.5 17152 12 1463.1 17153 12 1464.7 17153 12 1463.1 17185 12 1480.3 17196 12 1480.8 17187 12 1481.3 17120 12 1447.3 17121 12 1447.8 17122 12 1448.3 17123 12 1448.8 17124 12 1449.3 17125 12 1449.8 17153 12 1464.1 17154 12 1464.6 77155 12 1465.1 17156 12 1465.6 17157 12 1466.1 17158 12 1466.6 17159 12 1467.1 17188 12 1481.8 17189 12 1482.3 17190 12 1482.8 17190 12 1482.8 17191 12 1483.3 17192 12 1483.8 17193 12 1484.3 17194 12 1484.9 17125 12 1449.8 1710-17126 12 1450.3 17160 12 1467.6 17128 12 1451.3 17161 12 1468.1 17129 12 1451.3 17161 12 1468.1 17163 12 1469.2 17194 12 1485.4 17195 12 1485.4 17196 12 1486.4 17197 12 1486.4 17198 12 1486.9 17199 12 1487.4 17164 12 1469.7 17165 12 1470.2 17166 12 1470.7 17130 12 1452.4 17131 12 1452.9 17132 12 1453.4 17133 12 1453.9 17167 12 1471.2 17200 12 1487.9

Use check point at 17400 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

Frequency:	17200-	17300	Ke

Frequency:	17400-17500	Kε
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							_				•	ency: I					
Freq.			Freq.		В	Freq.		В	Freq	. А	В	Freq.		В	Freq.	$\overline{}$	
		1487.9			1505.2			1522.5	1740	12	1590 1	17434	12	1607.6	17468	12	
		1488.4			1506.7	17269	12	1523.1	1740	1 12	1590.6	17435	12	1608.2	17469	12	
		1488.9			1506.2				1740	12	1591.1	17436	12	1608.7	l		
17203	12	1489.4	17237	12	1506.7	17270	12	1523.6	1740	3 12	1591.6	17437	12	1609.2	17470	12	
		1489.9			1507.2	17271	12	1524.1	1740	1 12	1592.1	17438	12	1609.7	17471	12	
		1490.4	17239	12	1507.7			1524.6	1740	12	1592.7	17439	12	1610.2	17472	12	
		1490.9	ľ					1525.1	1740	12	1593.2				17473	12	
		1491.4			1508.2			1525.6	1740	1 12	1593.7	17440	12	1610.7	17474	12	
		1491.9			1508.8			1526.1	1740	12	1594.2	17441	12	1611.2	17475	12	
17209	12	1492.5			1509.3			1526.6	1740	12	1594.7	17442	12	1611.8	17476	12	
					1509.8			1527.1				17443	12	1612.3	17477	12	
		1493.0			1510.3			1527.7	1741	12	1595.2	17444	12	1612.8	17478	12	٠
		1493.5			1510.8	17279	12	1528.2	1741	1 12	1595.8	17445	12	1613.3	17479	12	
		1494.0			1511.3				1741	2 12	1596.3	17446	12	1613.8	l		
		1494.5			1511.8			1528.7	1741	3 12	1596.8	17447	12	1614.3	17480	12	
		1495.0			1512.3			1529.2	1741	1 12	1597.3	17448	12	1614.9	17481	12	+
17215	12	1495.5	17249	12	1512.8			1529.7	1741	5 12	1597.8	17449	12	1615.4	17482	12	٠
17216	12	1496.0						1530.2	1741	5 12	1598.3	ŀ			17483	12	
17217	12	1496.5	17250	12	1513.4			1530.7	1741	7 12	1598.9	17450	12	1615.9	17484	12	
17218	12	1497.0			1513.9			1531.2	1741	12	1599.4	17451	12	1616.4	17485	12	
17219	12	1497.5	17252	12	1514.4			1531.7	1741	9 12	1599.9	17452	12	1616.9	17486	12	
					1514.9			1532.3				17453	12	1617.4	17487	12	
		1498.0			1515.4			1532.8	1742	0 12	1600.4	17454	12	1618.0	17488	12	
17221	12	1498.5	17255	12	1515.9	17289	12	1533.3	1742	1 12	1600.9	17455	12	1618.5	17489	12	
17222	12	1499.0			1516.4				1742	2 12	1601.4	17456	12	1619.0	l .		
17223	12	1499.6	17257	12	1516.9	17290	12	1533.8	1742	3 12	1602.0	17457	12	1619.5	17490	12	
		1500.1			1517.4			1534.3	1742	6 12	1602.5	17458	12	1620.0	17491	12	
		1500.6	17259	12	1517.9			1534.5	1742	5 12	1603.0	17459	12	1620.5	17492	12	
		1501.1						1535.3			1603.5	1			17493	12	
		1501.6		-	1518.5			1535.8	1742	7 12	1604.0	17460	12	1621.1	17494	12	
		1502.1			1519.0			1536.3	1742	8 12	1604.5	17461	12	1621.6	17495	12	
17229	12	1502.6			1519.5			1535.8			1605.1	17462	12	1622.1	17496	12	
					1520.0			1537.4				17463	12	1622.6	17497		
		1503.1			1520.5			1537.9	1743	12	1605.6			1623.1	17496		
		1503.6			1521.0	17299	12	1538.4	1743	1 12	1606.1	17466	12	1623.7	17499	12	
		1504.2			1521.5	I			1743	2 12	1606.6	17466	12	1624.2	1		
17233	12	1504.7	17267	12	1522.0	17300	12	1538.9			1607.1			1624.7	17500	12	

Use check point at 17400 Kc

Use check point at 17400 Ka

Frequency:	17300-	17400	Ke

Frequency:	17500-17600 Kc
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Freq.	A	B	Freq.	Α	В	Freq.	A	B
17300	12	1538.9	17334	12	1556.2	17368	12	1573.7
17301	12	1539.4	17335	12	1556.7	17369	12	1574.2
17302	12	1539.9	17336	12	1557 2			
17303	12	1540.4	17337	12	1557.8	17370	12	1574.7
17304	12	1540.9	17338	12	1558.3	17371	12	1575.2
17305	12	1541.4	17339	12	1558.8	17372	12	1575.7
17306	12	1541.9				17373	12	1576.2
17307	12	1542.5	17340	12	1559.3	17374	12	1576.7
17308	12	1543.0	17341	12	1559.8	17375	12	1577.2
17309	12	1543.5	17342	12	1560.3	17376	12	1577.8
			17343	12	1560.8	17377	12	1578.3
17310	12	1544.0	17344	12	1561.3	17378	12	1578.8
17311	12	1544.5	17345	12	1561.8	17379	12	1579.3
17312	12	1545.0	17346	12	1562.4			
17313	12	1545.5	17347	12	1562.9	17380	12	1579.8
17314	12	1546.0	17348	12	1563.4	17381	12	1580.3
17315	12	1546.5	17349	12	1563.9	17382	12	1580.8
17316	12	1547.0	l			17383	12	1581.4
17317	12	1547.6	17350	12	1564.4	17384	12	1581.9
17318	12	1548.1	17351	12	1564.9	17385	12	1582.4
17319	12	1548.6	17352	12	1565.4	17386	12	1582.9
			17353	12	1566.0	17387	12	1583.4
17320	12	1549.1	17354	12	1566.5	17366	12	1583.9
17321	12	1549.6	17355	12	1567.0	17389	12	1584.4
17322	12	1550.1	17356	12	1567.5	ľ		
17323	12	1550 6	17357	12	1568.0	17390	12	1584.9
17324	12	1551.1	17358	12	1568.5	17391	12	1585.5
17325	12	1551.6	17359	12	1569.0	17392	12	1586.0
17326	12	1552.1	1			17393	12	1586.5
17327	12	1552.7	17360	12	1569.5	17394	12	1587.0
17328	12	1553.2	17361	12	1570.1	17395	12	1587.5
17329	12	1553.7	17362	12	1570.5	17396	12	1588.0
			17363	12	1571.1	17397	12	1588.5
17330	12	1554.2	17364	12	1571.6	17396	12	1589.1
17331	12	1554.7	17365	12	1572.1	17399	12	1589.6
17332	12	1555.2	17366	12	1572.6			
17333	12	1555.7	17367	12	1573.1	17488	12	1590.1

Use check point at 17400 Kc

		Freque	неу: 1	75	00-17	500 K	:	
Freq.	Α	В	Freq.	A	B	Freq.	- -	В
17500	12	1641.9	17534	12	1659.6	17568	12	1677.3
17501	12	1642.4	17535	12	1660.1	1756y	12	1677.8
17502	12	1642.9	17536	12	1660.6	Ī -		
17503	12	1643.4	17537	12	1661.1	175/70	12	1678.3
17504	12	1643.9	17538	12	1661.7	17671	12	1678.9
17505	12	1644.5	17539	12	1662.2	17572	12	1679.4
17506	12	1645.0				17573	12	1679.9
17507	12	1645.5	17540	12	1662.7	17574	12	1680.4
17508	12	1646.0	17541	12	1663.2	17575	12	1681.0
17509	12	1646.5	17542	12	1663.7	1/576	12	1581.5
			17543	12	1664.3	17577	12	1682.0
17510	12	1647.1	17544	12	1664.8	17578	12	1582.5
17511	12	1647 6	17545	12	1665.3	17579	12	1683.0
17512	12	1648.1	17546	12	1665.4	l		
17513	12	1648.6	17547	12	1666.8	17580	12	1683.6
17514	12	1649.1	17548	12	1666,9	17581	12	1684.1
17515	12	1649.7	17549	12	1667.4	17582	12	1684.6
17516	12	1650.2				17583	12	1685.1
17517	12	1650.7	17550	12	1667.9	17584	12	1685.7
17518	12	1651.2	17551	12	1668.4	17585	12	1686.2
17519	12	1651.7	17552	12	1669.0	17586	12	1686.7
	_		17553	12	1669.5	17587	12	1687.2
17520	12	1652.3	17554	12	1670.0	17588	12	1687.8
17521	12	1652.8	17555	12	1670.5	17589	12	1688.3
17522	12	1653.3	17556	12	1671.0			
17523	12	1653.8	17557	12	1671.6	17590	12	1688.8
17524	12	1654.3	17558	12	1672.1	17591	12	1689.3
17525	12	1654.9	17559	12	1672.6	17592	12	1689.9
17526	12	1655.4				17593	12	1690.4
17527	12	1655.9	17560	12	1673.1	17594	12	1690.9
17528	12	1656.4	17561	12	1673.6	17595	12	1691.4
17520	12	1657.0	17562	12	1674.2	17596	12	1692.0
	_		17563	12	1674.7	17597	12	1692.5
17530	12	1657.5	17564	12	1675.2	17598	12	1693.0
17531	12	1658.0	17565	12	1675.7	17509	12	1693.6
17532	12	1658.5	17566	12	1676.3	l		
17533	12	1659.0	17567	12	1676.8	17600	12	1694.1
				_				

Use check point at 17400 Ke

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

		freque	ncy: 1	764	90 1 <i>7</i> 7	700 Kc	!				Freque	ency: 1	78	00 1 <i>7</i> 1	900 K	:	
Frey.	A	В	Freq.	A	В	Freq.	Α	Ħ	Freq	. 4	В	Freq.	_A	В	Freq.	•	В
7600	12	1694 1	17634	12	1712.0	17668	12	1729.9	1780	12	1800.4	17834	12	1818.8			1837.2
7601	12	1694.6	17635	12	1712.5	17669	12	1730.4	1780	: 12	1801.0	17835	12	1819.3			1837.7
0 2	12	1695.1	17636	12	1713.0	l			1780	2 12	1801.5	17836	12	1819.8			
		1695.7	17637	12	1713.5	17670	12	1731.0	1780	1 12	1802.0	17837	12	1820.4	17870	12	1636.3
		1696.2			1714.1			1731.5			1802.6	17838	12	1820.9	17871	12	1838.8
		1696.7	17639	12	1714.6	17672	12	1732.0	1780	5 12	1803.1	17839	12	1821.5	17872	12	1839.3
506	12	1697.2				17673	12	1732 5	1780	12	1803.6				17873	12	1839.9
		1697.8	17640	12	1715.1	17674	12	1733.1	1780	12	1804.2	17840	12	1822.0	17874	12	1840.4
08	12	1698.3	17641	12	1715.6	17675	12	1733.6	1780	12	1804.7	17841	12	1822.6	17875	12	1841.0
09	12	1698.8			1716.2	17676	12	1734.1	1780	12	1805.3	17842	12	1823.1	17876	12	1841.5
			17643	12	1715.7	17677	12	1734.7				17843	12	1823.6			1842.1
		1699.3			1717.2			1735 2			1805.8	17844	12	1824.2	17378	12	1842.0
11	12	1699.9	17645	12	1717.8	17679	12	1735.7	1781	12	1806.3	17845	12	1824.7	17879	12	1843.1
12	12	1700.4	17646	12	1718.3	l			1781	12	1806.9	17846	12	1825.3			
13	12	1700.9	17547	12	1718.8	17680	12	1736.2	1781	1 12	1807.4	17847	12	1825.8	17880	12	1843.7
	12	1701.4			1719.3	17681	12	1736.8	1781-	12	1806.0	17848	12	1826.3	17881	12	1844.2
	12	1702.0	17649	12	1719.9	17682	12	1737.3	1781	12	1808.5	17849	12	1826.9	17882	12	1844.8
1	2	1702.5	l			17683	12	1737.8	1781	12	1809.0				17883	12	1845.3
•	2	1703.0	17650	12	1720.4	17684	12	1738.4	1781	12	1809.6	17850	12	1827.4	17884	12	1845.9
12	١	1703.5	17651	12	1720.9	17685	12	1738.9	1781	12	1810.1	17851	12	1828.0	17885	12	1846.4
	12	1704.1	17652	12	1721.5	17686	12	1739.4	17819	12	1810.6	17852	12	1828.5	17986	12	1847.0
			17653	12	1722.0	17687	12	1739.9				17853	12	1829.1	17887	12	1847.5
	12	1704.6	17654	12	1722.5	17688	12	1740.5	1782	12	1811.2	17854	12	1829.5			1848.1
	12	1705.1	17655	12	1723.0	17689	12	1741.0	1782	12	1811.7	17855	12	1830.1	17889	12	1848.6
2	12	1705.7	17656	12	1723.6				1782	! 12	1812.3	17856	12	1830.7	1		
	12	1706.2	17657	12	1724.1	17690	12	1741.5	1782	12	1812.8	17857	12	1831.2	17890	12	1849.2
4	12	1706.7	17658	12	1724.6	17691	12	1742.0	1782	12	1813.3	17858	12	1831.8	17891	12	1849.7
5	12	1707.2	17659	12	1725.2	17692	12	1742.6	1782	12	1813.9	17859	12	1832.3	17892	12	1850.3
26	12	1707.8	ĺ			17693	12	1743.1	1782	12	1814.4	1			17893	12	1850.8
27	12	1708.3	17660	12	1725.7	17694	12	1743.6	1782	12	1815.0	17860	12	1832.8	17894	12	1851.4
28	12	1708.8	17661	12	1726.2	17695	12	1744.1			1815.5	17861		1833.4			1852.0
29	12	1709.3	17662	12	1726.7	17696	12	1744.4			1816.1	17862		1833.9			1852.5
			17663	12	1727.3	17697	12	1745.2		-				1834.5			1853.1
30	12	1709.9	17664	12	1727.8	17698	12	1745.7	17830	12	1816.6	17864		1835.0			1653.6
631	12	1710.4			1728.3	17699	12	1746.3			1817.1	17865		1835.6			1854.2
32	12	1710.9	17666	12	1728.8	l			1783	12	1817.7	17866		1836.1		-	3 - 1 -
		1711.4	17667	12	1729.4	17700	12	1746.8			1818.2			1836.6	17900	12	1854.7

Use check point at 17400 Kc

Use theck point at 18000 Kc

Frequency:	17700-	17800	Ke

							_	
Freq.	A	н	Frey.	Α	A	Freq.	Α	A
17700	12	1746.8	17734	12	1765.0	17768	12	1783.2
17701	12	1747.3	17735	12	1765 5	17769	12	1783.7
17702	12	1747.9	17736	12	1766.0			
17703	12	1748.4	17737	12	1766 6	17770	12	1784.3
17704	12	1748.9	17738	12	1767.1	17771	12	1784.8
17705	12	1749.5	17739	12	1767.7	17772	12	1785.3
17706	12	1750.0	l			17773	12	1785.9
17707	12	1750.5	17740	12	1768.2	17774	12	1785.4
17708	12	1751 1	17741	12	1768.7	17775	12	1787.0
17709	12	1751 6	17742	12	1769.3	17776	12	1787.5
			17743	12	1769.8	17777	12	1788.0
17710	12	1752 1	17744	12	1770 3	17778	12	1788.6
17711	12	1752.7	17745	12	1770.9	17779	12	1789.1
17712 17713	12 12	1753.2 1753.8	17746	12	1771.4	l		
17713	12	1754 3	17747 17748	12	1771.9 1772.5	17780	12	1789.6 1790.2
17715	12	1754.8	17749	12	1773.0	17782	12	1790.7
17716	12	1755.4	17759	12	1773.0	17783	12	1791.3
12717	12	1755.9	17750	12	1773.5	17784	12	1791.8
17718	12	1756.4	17751	12	1774.1	17765	12	1792.3
17719	12	1757.0	17752	12	1774.6	17786	12	1792.9
	••		17753	12	1775.1	17787	12	1793.4
17720	12	1757 5	17754	12	1775.7	17788	12	1794.0
17721	12	1758.0	17755	12	1776.2	17789	12	1794.5
17722	12	1758.6	17756	12	1776.7	[-	
17723	12	1759 1	17757	12	1777.3	17790	12	1795.0
17724	12	1759 6	17758	12	1777.8	17791	12	1795.5
17725	12	1760 2	17759	12	1778.3	17792	12	1796.1
17726	12	1760.7	1			17793	12	1796.6
17727	12	1761.2	17760	12	1778.9	17794	12	1797.2
17728	12	1761.8	17761	12	1779.4	17795	12	1797.7
17729	12	1762.3	17762	12	1780.0	17796	12	1798.3
			17763	12	1780.5	17797	12	1798.8
17730	12	1762 8	17764	12	1761.0	17798	12	1799.3
17731	12	1763.4	17765	12	1781 6	17799	12	1799.9
17732	12	1763 9	17766	12	1782.1	l		
17733	12	1764.4	17767	12	1782.6	17800	12	1800.4
			i			l		

Use check point at 18000 Kc

Frequency: 17900-18000 Kc

Freq.	A	B	Freq.	٨	В	Freq.	A	В
17900	12	1854.7	17934	12	1873.5	17968	12	1892.3
17901	12	1855.3	17935	12	1874.0	17969	12	1892.8
17902	12	1855 8	17935	12	1874.6			
17903	12	1856.4	17937	12	1875.1	17970	12	1893.4
17904	12	1856.9	17938	12	1875.7	17971	12	1893.9
17905	12	1857.5	17939	12	1876.2	17972	12	1894.5
17906	12	1858.0	ŀ			17973	12	1895.0
17907	12	1858.6	17940	12	1876 8	17974	12	1895.6
17908	12	1859.1	17941	12	1877.3	17975	12	1896.2
17909	12	1859.7	17942	12	1877.9	17976	12	1896.7
			17943	12	1876 4	17977	12	1897.3
17910	12	1860 2	17944	12	1879.0	17978	12	1897.8
17911	12	1860.8	17945	12	1879.5	17979	12	1898.4
17912	12	1861.3	17946	12	1880.1	l		
17913	12	1861 9	17947	12	1880.6	17980	12	1898.9
17914	12	1862 4	17948	12	1881 2	17981	12	1899 5
17915	12	1863.0	17949	12	1881.7	17982	12	1900.0
17916	12	1863.5				17983	12	1900.6
17917	12	1864 1	17950	12	1882 3	17984	12	1901.1
17918	12	1864 6	17951	12	1882.9	17985	12	1901.7
17919	12	1865.2	17952	12	1883 4	17986	12	1902.2
			17953	12	1884 0	17987	12	1902.8
17920	12	1865 7	17954	12	1884.5	17966	12	1903.4
17921	12	1866.3	17955	12	1885.1	17989	12	1903.9
17922	12	1866 8	17956	12	1885.6			
17923	12	1867.4	17957	12	1886.2	17990	12	1904.5
17924	12	1867 9	17958	12	1886.7	17991	12	1905.0
17925	12	1868.5	17959	12	1887.4	17992	12	1905.6
17926	12	1869 0		_		17993	12	1906.1
17927	12	1869.6	17960	12	1887.8	17994	12	1906.7
17928	12	1870.1	17961	12	1885.4	17995	12	1907.2
17929	12	1870.7	17962	12	1888.9	17996	12	1907 B
			17963	12	1889.5	17997	12	1906.3
17930	12	1871.2	17964	12	1890.1	17998	12	1908.9
17931	12	1871.6	17965	12	1890.6	17999	12	1909.4
17932	12	1672.3	17966	12	1891.2			****
17933	12	1872.9	17967	12	1891.7	12000	12	1910.0

Use shock point at 18000 Kc

TABLE 5-2. CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED. (Continued)

Frequency: 18000-18100 Kc

Freq.	A	В	Freq.	A	В	Freq.	A	В
18000	12	1910.0	18034	12	1929.1	18068	12	1948.3
18001	12	1910.6	18035	12	1929.7	18069	12	1948.8
18002	12	1911.1	18036	12	1930.2			
18003	12	1911.7	18037	12	1930.8	18070	12	1949.4
18004	12	1912.2	18038	12	1931.4	18071	12	1950.0
18005	12	1912.8	18039	12	1931.9	18072	12	1950.5
18006	12	1913.4				18073	12	1951.1
18007	12	1913.9	18040	12	1932.5	18074	12	1951.7
18008	12	1914.5	18041	12	1933.0	18075	12	1952.3
18009	12	1915.1	18042	12	1933.6	18076	12	1952.8
			18043	12	1934.2	18077	12	1953.4
18010	12	1915.6	18044	12	1934.7	18078	12	1954.0
18011	12	1916.2	18045	12	1935.3	18079	12	1954.5
18012	12	1916.7	18046	12	1935.9			
18013	12	1917.3	18047	12	1936.4	18080	12	1955.1
18014	12	1917.9	18048	12	1937.0	18081	12	1955.7
18015	12	1918.4	18049	12	1937.5	18082	12	1956.2
18016	12	1919.0				18083	12	1956.8
18017	12	1919.6	18050	12	1938.1	18084	12	1957.4
18018	12	1920.1	18051	12	1938.7	18085	12	1957.9
18019	12	1920.7	18052	12	1939.2	18086	12	1958.5
			18053	12	1939.8	18087	12	1959.1
18020	12	1921.2	18054	12	1940.3	18088	12	1959.7
18021	12	1921.8	18055	12	1940.9	18089	12	1960.2
18022	12	1922.4	18056	12	1941.5			
18023	12	1922.9	18057	12	1942.0	18090	12	1960.8
18024	12	1923.5	18058	12	1942.6	18091	12	1961.4
18025	12	1924.1	18059	12	1943.2	18092	12	1961.9
18026	12	1924.6				18093	12	1962.5
18027	12	1925.2	18060	12	1943.7	18094	12	1963.1
18028	12	1925.7	18061	12	1944.3	18095	12	1963.6
18029	12	1926.3	18062	12	1944.9	18096	12	1964.2
			18063	12	1945.4	18097	12	1964.8
18030	12	1926.9	18064	12	1946.0	18098	12	1965.3
18031	12	1927.4	18065	12	1946.6	18099	12	1965.9
18032	12	1928.0	18066	12	1947.1			
18033	12	1928.5	18067	12	1947.7	18100	12	1966.5

Use check point at 18000 Kc

TABLE 5-3

CALIBRATION OF OSCILLATOR 0-16/ART-13
WHEN MCW-CFI 8Q-2 UNIT IS USED

200 Kc to 1500 Kc

AN 16-30ART13-3

TABLE 5-3. CALIBRATION OF OSCILLATOR 0-16/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED 200 Kc to 750 Kc

							OO Ke to		•						
Freq.	A	F	G	Freq.	A	_ F	G	Freq.	A	F	G	Freq.	A	F	G
200	13	1	393	300	13	2	1114	400	13	3	1090	500	13	4	518 sui ;Ai 565 ;Ai 609 ij
202	13	- 1	469	302	13	2	1153 😨	402	13	3	1120	505	13	4	565 😤
204	13	ı I	540 🔓	304	13	2	1192 🛌	404	13	3	1148	510	13	4	609 ≩
206	13	1	609	306	13	2	1229	406	13	3	1177	515	13	4	654 gr
208	13	1	676	308	- 13	2	1266	408	13	3	1205				_
210	13	-1	739 801 180	310	13	2	1302 🦉	410	13	3	1233 😨	520	13	4	697
212	13	-1	80∤ 🖫	312	13	2	1338 📆	412	13	3	1260	525	13	4	739
214	13	1	861 📆	314	13	2	1373 🕿	414	13	3	1288	530	13	4	
216	13	, ,	919	316	13	2	1407	116	13	3		533	13	4	781 2 808 2
218	13	1	976		_	-	,	418	13	3	1314 \$6 1341 ;iA 1368 ;i	535	13	4	821
220	13	1	1030	318	13	2	1442	420	13] 3	1368	540	13	4	
	'*	, i		320	13	2	1476	422	13	3		545	13	4	862 8 901 3 940 8
222	13	,	1084	322	13	2	1508		l	3	1394 B	11			901 .
224	13	, 1	1136	324	13	2	1542 😨	424	13	l .	, ,	550	13	4	
_	13	;	1	■ 325	13	2	1558	425	13	3	1432	555	13	4	978 😅
	I .	:	1161	326	13	2	1574	426	13	3	1445	560	13	4	1016
226	13		1187 🚡	328	13	2	1606	428	13	3	1470	565	13	4	1053
228	13	1	1237	330	13	2	1638	430	13	3	1495	11]	Ì	Ì
230	13	ן י	1286	332	13	2	1670 To	432	13	3	1519	570	13	4	1090
232	13	ן ן	1334 .5	333	13		1691 👱	434	13	3	1544	575	13	4	1127
234	13	ו	1381 💈	11		2		436	13	3	1569	580	13	4	1163
236	13	1	1426	334	13	2	1701	438	13	3	1593 🕏	585	13	4	1198
238	13	١ ١	1472	336	13	2	1732	440	13	3	1616	5 90	13	4	
240	13	1	1515	338	13	_	1763	442	13] 3	1641	595	13	4	1234
242	13	١ ١	1560	340	13	2	1793	444	13	3	1665 .5	600	13	4	1304
244	13	١,	1603	342	13	2	1823 -	446	13	3	1665 . 1688 ≥	605	13	4	1304 1340 1375
				344	13	2	1823 😨	448	13	3	1710 📆	610	13	4	1375
246	13	l i	1646	346	13	2	1883	450	13] 3	1734 E	615	13	4	1408
248	13	l .	1688 🖫	348	13	2		452	13	3	1757	620	13	4	1444
250	13	l r	1729	350	13		1912 6 1942 1971	454	13	3	1780	625	13	4	1479
252	13		1770	• • • • • • • • • • • • • • • • • • • •		2	1942 3	456	13] 3	1802	630	13	4	1512
254	13		1810.5	352	13	2		1	1	3		030	''	7	1312
256	13	l i	1851 5	354	13	2	2000	458	13		1825		١.,	١.	
258	13	l ;	1890	356	[13	2	2028 =	460	13	3	1847	635	13	4	1548
260	13	li	1929	350	١.,	١.	معرا ا	462	13	3	1870	640	13	4	1584
		1			13	3	154	464	13	3	1892 🖫	645	13	4	1618
262	13	1	1968	352	13	3	205	466	13	3	1912	650	13	4	11000
	١	١.	1	354	13	3	255	467	13	3	1921	655	13	4	1691
262	13	2	175	356	13	3	302 <u>9</u>	468	13	3	1936 5	660	13	4	1728 1766 : 1779 :
264	13	2	242	358	13	3	347	470	13	3	1958 😤	655	13	4	1766
266	13	2	305	360	13	3	392	472	13	3	1980 📆	667	13	4	1779 :
267	13	2	325 😨	362	13	3	434 🚆	474	+3	3	2001 등	670	13	4	1804 ;
268	13	2	366	364	13	3	476 🚆	■ 475	13	4	268	675	13	4	1845
270	13	2		366	13	3	434 sug 476 sig 515 sp	476	13	3	2022	680	13	4	1886
272	13	2	480	368	13	3	555 =	467	13	4	176			ľ	
274	13	2	533 :∰	370	13	3	593 💆	468	13	4	191 🚓	685	13	4	1928
275	13	2	533 : 5 559 · 6	372	13	3	631	470	13	4	213	690	13	4	1976
276	13	2	585 😤	374	13	3	668	472	13	4	235	695	1 13	4	2023
278	13	2	635	■ 375	13	3	686	474	13	4	257 🕏		1		1
280	13	2	684	11 -		_		475	13	4	257 279 279 2	695	13	5	156
282	13	2	731	376	13	3	704	476	13	4	270 2	700	13	5	195
	1	-		378	13	3	739	478	13	4	300	705	13	5	221
284	13	2	778	380	13	3	774	II	ı	4	300 € 321 €	710	13	1	231 269
286	13	2	823 🖫	382	13	3	808	480	[3				1	5	303
288	13	2	868 2	384	13	3		482	13	4	342	715	13	5	303
				386	13	3	841 8	484	13	4	363	720	13	5	338
290	13	2	911	11	13			486	13	4	383 😨	725	13	5	338 373 406
292	13	2	953	388	1	3		488	13	4	402 🐷	730	13	5	406
294	13	2	953 5 995 5 1035 5	390	13	3	938	490	13	4	422 🖺	733	13	5	427
296	13	2		392	13	3	970	492	13	4	442 🖫	735	13) 5	438
298	13	2	1075 👼	394	13	3	1000 😤	494	13	4	462 🖫	740	13	5	471
300	13	2	1114	396	13	3	1030	496	13	4	462 : 481 :	745	13	5	502
	1	1	1	398	13	3	1061	498	13	4	499 🖭	750	13	5	533
				400	13	3	1090				518 =				

Use nearest check point shown in heavy type.

TABLE 5-3. CALIBRATION OF OSCILLATOR 0-16/ART-13 WHEN MCW-CFI 8Q-2 UNIT IS USED (Continued) 750 Kc to 1500 Kc

				1	KC 10			<u> </u>			1 _
Freq.	<u>A</u>	F	G	Freq.	A	F	G	Freq.	A	F	G
750 755	13	5	533 😭	1000	13	5	1795 1822 🖫	1250	13	6	1016
760	13	5 5	565 t 594 d .	1005	13	5	1822 —	1255	13		1032
765	13	5	624 ≟	1010	13	5	1850 &	1260	13	6	
770	13	5	654 <u>v</u>	1015	13	5	1878 19 05 19 35 19 35 19 35	1265	13	6	1067
,,¢	' '	,	037 55	1020 1025	13	5	1905 13	1267	13	6	1073 년
775	13	5	683	1023	13	5	1735 18	1270	13	6	1084
/80	13	5	711	1035	13	5	1966 m 1998 ti	1275	13	6	1100 %
785	13	5	739	1035	13	3		1280	13	6	1119 🙃
790	13	5	768 宜	1035	13	6	145 星	1285	13	6	1132
795	13	5	795	1040	13	6	171 🙎	1290	13	6	1149
800	13	5	795 821 849 3	1045	13	ŧ		1295	13	6	1166
805	13	5	849 >	1050	13	6	196 > 219 **	1300	13	6	l
810	13	5	976 13	1055	13	6	244 🕞	1305	13	6	11182 3
815	13	5	976 s ; 90! s ;			-		1310	13	6	1214
820	13	5	927	1060	13	5	270 😧 293	1315	13	6	1230 6
825	13	5	953	1065	13	6	293 🚆	1320	13	4.	1230 800 1246 12 1262 13
830	13	5	979	1067	13	ó	300	1325	13	6	1240 2
			'''	1070	13	6	315 者	1330	13		1278
835	13	5	1004	1075	13	6	338 "	1335	13	6	1294
840	13	5	1029	1080	13	6	363 🕏	1335	13	6	1309
845	13	5	1054 😨					1345	13	6	1304
850	13	5	1079	1085	13	é.	385 🛖	1345	13	. 6	1341
855	13	5	1103	1090	3	6	407	1350	'3	•	1371
860	13	5	1127 🛎	1095	13	é	428	1355	13	6	1358
845	13	5	1127 50 1152 55 1160 15	1100	13	6	451	1360	13	,	1374
867	13	5	1160 -	1105	13	6	451 . 473 5	1365	13	6	1389
870	13	5	1176	1110	13	6	493	1370	13	6	1404
875	13	5	1199 😎	1115	13	6	514	1375	13	6	1419 _
880	13	_	1223	 		i		1380	13	6	1436
				H20	13	6	534 😨	1385	13	6	1452
885	13	ε	1247 😨	1125	13	6	555 🖢	1390	13	6	
890	13	5	1270 星	1130	13	6	576 💂	1395	13	6	1484
895	13	5	1294 &	1133	13	6	555 3 576 3 589 3	1400	13	6	1468 \$1484 \$1499 \$2
900	13	5	1317 6 1341 5 1364 5	1135	13	6	596 🛫	1405	13	6	
905	13	5	1341				_	1410	13	6	1514 7
910	13	5	1364 章	1140	.13	ò	615	1415	13	6	1547
915	13	5	1387 👙	1 45	13	6	635 💆	1420	13	6	1563
			a	1150	E1	6	656 to 675	1425	13	6	1580
920	13	5	1410	1+55	13	6	675 🙅	1430	13	6	1595
925	13	5	1433	1160	13	٨.	694 🛓	'430	'3	"	1375
930	13	5	1457 🖫	1165	13	t	712 🧙	1435	13	6	1611
933	13	5	1473	1170	13	6	731 ²²	1440	13	6	1627
935	13	5	1480	1175	13	6	751	1445	13	6	1644
940	13	5	1503 .₫		١.,	١,	7.20	1450	13	6	1661
945	13	5	1503 .0 1526 .2 1550	1180	13	6	770	1455	13	6	116/8 -
950	13	5	1000	1185	13		788	1460	13	6	1694
955	13	5	1574 🕏	1190	13	6	806 823 🖫	1465	13	6	1694
960	13	5	1597	1195	+3	6	825 -8	1467	13	6	1715
				1200	13	6	842 8	1470	13	6	1727 📆
965	13	5	1621	1205	15	6	860 . 878 - 3	1475	13	6	1744
970	13	5	1645	1210	13	6	8/8 1	1480	13	6	1763
975	13	5	1670 💆	1215	13	6	895 8	'	'.		
980	13	5	1718 1744 199	1220	13	6	710	1485	13	6	1780
985	13	5	1718 💆	1225	13	6	930	1490	13	6	1813 <u>2</u>
990	13	5	1744 ∑	1230	13	6	948	1495	13	6	1813 >
995	13	5	1770		.,	l .	966 星	1500	13	هٔ	1832
1000	13	5	1795	1235	13	6	966		'-		,
	1	1	_	1240	13	6	983		1	1	"
	1		1	1245	13	6	999 <u>*</u>]		1
			l	1250	13	6	1016		1		
				1267	13	l 6	1 1077 >		i .		

Use nearest check point shown in heavy type.

TABLE 5-4

CALIBRATION OF OSCILLATOR 0-17/ART-13A WHEN MCW-CFI 8Q-1 UNIT IS USED

200 Kc to 600 Kc

TABLE 5-4. CALIBRATION OF OSCILLATOR 0-17/ART-13A WHEN MCW-CFI 8Q-1 UNIT IS USED 200 Kc to 300 Kc

Freq.	A	F	G	Freq.	A	F	G	Freq.	A	F	G
200	13	1	189.2	234	13	1	890.2	269	13	1	1604.0
201	13	. 1	212.0	235	13	1	910.6				
202	13	1	234.8	236	13	1	931.0	270	13	1	1624.5
203	13	1	256.8	237	13	1	951.3	271	13	1	1645.6
204	13	1	278.0	238	13	1	971.7	272	13	1	1666.0
205	13	1	299.8	239	13	1	992.0	273	13	1	1686.5
206	13	1	321.3					274	13	1	1707.2
207	13	1	342.8	240	13	1	1012.4	275	13	1	1728.8
208	13	1	363.6	241	13	1	1032.8	276	13	1	1750.0
209	13	1	384.3	242	13	1	1053.3	277	13	1	1771.0
			ļ	243	13	1	1073.7	278	13	1	1792.0
210	13	1	405.0	244	13	1	1094.2	279	13	1	1814.0
211	13	1	425.3	245	13	1	1114.6				
212	13	1	445.6	246	13	1	1135.0	280	13	1	1836.0
213	13	1	466.5	247	13	1	1155.5	281	13	1	1858.0
214	13	1	486.7	248	13	1	1175.9	282	13	1	1880.0
215	13	1	508.1	249	13	1	1196.4	283	13	1	1902.2
216	13	1	527.5				1	284	13	1	1925.2
217	13	1	548.0	250	13	1	1216.8	285	13	1	1948.5
218	13	1	568.0	251	13	1	1237.1				
219	13	1	588.0	252	13	1	1257.4	285	13	2	118.8
				253	13	1	1277.8	286	13	2	135.7
220	13	1	608.0	254	13	1	1298.1	287	13	2	152.2
221	13	1	628.1	255	13	1	1318.4	288	13	2	168.2
222	13	1	648.2	256	13	1	1338.7	289	13	2	184.2
223	13	1	668.2	257	13	1	1359.0				
224	13	1	688.3	258	13	1	1379.4	290	13	2	200.2
225	13	1	708.4	259	13	1	1399.7	291	13	2	215.5
226	13	1	728.5				1	292	13	2	231.0
227	13	1	748.6	260	13	1	1420.0	293	13	2	246.8
228	13	1	768.6	261	13	1	1440.0	294	13	2	261.8
229	13	1	788.7	262	13	1	1460.9	295	13	2	276.5
				263	13	1	1481.4	296	13	2	291.4
230	13	1	8.808	264	13	1	1501.8	297	13	2	306.5
231	13	1	829.2	265	13	1	1522.2	298	13	2	321.5
232	13	1	849.5	266	13	1	1542.7	299	13	2	336.2
233	13	1	869.9	267	13	1	1563.1				
				268	13	1	1583.6	300	13	2	350.8

Use nearest check point shown in heavy type.

TABLE 5-4. CALIBRATION OF OSCILLATOR 0-17/ART-13A WHEN MCW-CFI 8Q-1 UNIT IS USED (Continued) 300 Kc to 400 Kc

Freq.	A	F	G	Freq.	A	F	G	Freq.	A	F	G
300	13	2	350.8	334	13	2	829.0	368	13	2	1309.2
301	13	2	365.7	335	13	2	843.0	369	13	2	1323.3
302	13	2	379.4	336	13	2	857.0				
303	13	2	394.5	337	13	2	871.0	370	13	2	1337.5
304	13	2	408.7	338	13	2	885.0	371	13	2	1351.5
305	13	2	423.5	339	13	2	899.0	372	13	2	1365.6
306	13	2	438.7					373	13	2	1379.6
307	13	2	452.0	340	13	2	913.0	374	13	2	1393.6
308	13	2	466.0	341	13	2	927.2	375	13	2	1407.6
309	13	2	480.0	342	13	2	941.4	376	13	2	1421.7
		ļ	ı	343	13	2	955.6	377	13	2	1435.7
310	13	2	494.0	344	13	2	969.8	378	13	2	1449.7
311	13	2	509.2	345	13	2	984.0	379	13	2	1463.7
312	13	2	522.4	346	13	2	998.2				
313	13	2	536.6	347	13	2	1012.4	380	13	2	1477.8
314	13	2.	550.6	348	13	2	1026.6	381	13	2	1492.0
315	13	2	564.4	349	13	2	1040.8	382	13	2	1506.2
316	13	2	578.4					383	13	2	1520.3
317	13	2	592.2	350	13	2	1055.0	384	13	2	1534.5
318	13	2	606.2	351	13	2	1069.1	385	13	2	1548.7
319	13	2	620.2	352	13	2	1083.2	386	13	2	1562.9
				353	13	2	1097.3	387	13	2	1577.
320	13	2	634.2	354	13	2	1111.4	388	13	2	1591.2
321	13	2	648.1	355	13	2	1125.5	389	13	2	1605.4
322	13	2	662.0	356	13	2	1139.6				
323	13	2	675.8	357	13	2	1153.7	390	13	2	1619.6
324	13	2	689.7	358	13	2	1167.8	391	13	2	1634.1
325	13	2	703.6	359	13	2	1181.9	392	13	2	1648.6
326	13	2	717.5	1				393	13	2	1663.2
327	13	2	731.4	360	13	2	1196.0	394	13	2	1677.7
328	13	2	745.2	361	13	2	1210.1	395	13	2	1692.2
329	13	2	759.1	362	13	2	1224.3	396	13	2	1706.7
				363	13	2	1238.4	397	13	2	1721.2
330	13	2	773.0	364	13	2	1252.6	398	13	2	1735.7
331	13	2	786.4	365	13	2	1266.7	399	13	2	1750.3
332	13	2	801.0	366	13	2	1280.9				
333	13	2	815.0	367	13	2	1295.0	400	13	2	1764.8

Use nearest check point shown in heavy type.

TABLE 5-4. CALIBRATION OF OSCILLATOR 0-17/ART-13A WHEN MCW-CFI 8Q-1 UNIT IS USED (Continued) 400 Kc to 500 Kc

Freq.	A	F	G	Freq.	A	F	G	Freq.	A	F	G_
400	13	2	1764.8	433	13	3	320.4	468	13	3	662.6
401	13	2	1779.0	434	13	3	330.4	469	13	3	672.2
402	13	2	1793.7	435	13	3	340.6				
403	13	2	1809.0	436	13	3	350.8	470	13	3	681.8
404	13	2	1824.0	437	13	3	360.8	471	13	3	691.4
405	13	2	1839.4	438	13	3	370.6	472	13	3	701.0
406	13	2	1854.4	439	13	3	380.4	473	13	3	710.5
407	13	2	1869.4					474	13	3	720.1
408	13	2	1885.0	440	13	3	390.4	475	13	3	729.7
409	13	2	1900.2	441	13	2	400.3	476	13	3	739.3
				442	13	3	410.1	477	13	3	748.9
410	13	2	1916.2	443	13	3	420.0	478	13	3	758.4
411	13	2	1932.2	444	13	3	429.8	479	13	3	768.0
412	13	2	1948.2	445	13	3	439.7	-			
413	13	2	1964.4	446	13	3	449.6	480	13	3	777.6
414	13	2	1980.3	447	13	3	459.4	481	13	3	787.3
415	13	2	1997.0	448	13	3	469.3	482	13	3	796.9
	1			449	13	3	479.1	483	13	3	806.6
415	13	3	127.2					484	13	3	816.2
416	13	3	138.6	450	13	3	489.0	485	13	3	825.9
417	13	3	150.2	451	13	3	498.7	486	13	3	835.6
418	13	3	161.3	452	13	3	508.4	487	13	3	845.2
419	13	3	172.2	453	13	3	518.0	488	13	3	854.9
	1			454	13	3	527.7	489	13	3	864.5
420	13	3	183.0	455	13	3	537.4				
421	13	3	193.8	456	13	3	547.1	490	13	3	874.2
422	13	3	205.0	457	13	3	556.8	491	13	3	884.0
423	13	3	215.6	458	13	3	566.4	492	13	3	893.7
424	13	3	226.6	459	13	3	576.1	493	13	3	903.5
425	13	3	237.2					494	13	3	913.2
426	13	3	247.7	460	13	3	585.8	495	13	3	923.3
427	13	3	258.2	461	13	3	595.4	496	13	3	932.8
428	13	3	268.4	462	13	3	605.0	497	13	3	942.5
429	13	3	277.7	463	13	3	614.6	498	13	3	952.3
				464	13	3	624.2	499	13	3	962.0
430	13	3	289.2	465	13	3	633.8				
431	13	3	299.6	466	13	3	643.4	500	13	3	971.8
432	13	3	310.2	467	13	3	653.0			[_	

TABLE 5-4. CALIBRATION OF OSCILLATOR 0-17/ART-13A WHEN MCW-CFI 8Q-1 UNIT IS USED (Continued) 500 Kc to 600 Kc

Freq.	A	F	G	Freq.	A	F	G	Freq.	A	F	G
500	13	3	971.8	534	13	3	1303.2	569	13	3	1644.0
501	13	3	981.6	535	13	3	1312.9	1	1		
502	13	3	991.0	536	13	3	1322.6	570	13	3	1653.8
503	13	3	1001.1	537	13	3	1332.3	571	13	3	1663.8
504	13	3	1010.9	538	13	3	1342.0	572	13	3	1673.2
505	13	3	1020.6	539	13	3	1351.7	573	13	3	1682.0
506	13	3	1030.4	1				574	13	3	1692.8
507	13	3	1040.2	540	13	3	1361.4	575	13	3	1703.0
508	13	3	1050.0	541	13	3	1371.1	576	13	3	1713.0
509	13	3	1059.7	542	13	3	1380.8	577	13	3	1723.0
			1	543	13	3	1390.4	578	13	3	1733.4
510	13	3	1069.5	544	13	3	1400.1	579	13	3	1743.4
511	13	3	1079.2	545	13	3	1409.8		1		
512	13	3	1089.0	546	13	3	1419.5	580	13	3	1753.4
513	13	3	1098.8	547	13	3	1429.2	581	13	3	1763.4
514	13	3	1108.5	548	13	3	1438.8	582	13	3	1773.2
515	13	3	1118.2	549	13	3	1448.5	583	13	3	1783.2
516	13	3	1128.0	1				584	13	3	1793.8
517	13	3	1137.7	550	13	3	1458.2	585	13	3	1804.0
518	13	3	1147.5	551	13	3	1467.9	586	13	3	1814.4
519	13	3	1157.3	552	13	3	1477.7	587	13	3	1824.8
	ļ .			553	13	3	1487.4	588	13	3	1835.2
520 °	13	3	1167.0	554	13	3	1497.1	589	13	3	1845.9
521	13	3	1176.8	555	13	3	1506.9	11			
522	13	3	1186.5	556	13	3	1516.6	590	13	3	1856.2
523	13	3	1196.2	557	13	3	1526.3	591	13	3	1866.4
524	13	3	1206.0	558	13	3	1536.1	592	13	3	1877.0
525	13	3	1215.7	559	13	3	1545.9	593	13	3	1887.5
526	13	3	1225.5	#				594	13	3	1898.0
527	13	3	1235.2	560	13	3	1555.6	595	13	3	1909.0
5 28	13	3	1245.0	561	13	3	1565.4	596	13	3	1920.0
529	13	3	1254.7	562	13	3	1575.2	597	13	3	1931.0
				563	13	3	1585.1	598	13	3	1942.0
530	13	3	1264.5	564	13	3	1594.9	599	13	3	1953.0
531	13	3	1274.2	565	13	3	1604.7				
532	13	3	1283.9	566	13	3	1614.5	600	13	3	1964.0
533	13	3	1293.6	567	13	3	1624.3				
	[1		568	13	3	1634.3	U	1		

TABLE 5-5

CALIBRATION OF RADIO TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-1 UNIT IS USED

2000 Kc to 18,100 Kc

TABLE 5-5. CALIBRATION OF TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-1 UNIT IS USED

2000 Kc to 3000 Kc

2000	Freq.	Α	В	Freq.	A	В	Freq.	A	В	Freq.	A	В
2005	2000	1	100	2250	1	1027	2500	2	366 ਦੂ	2750	2	1133
2010 1 188 \(\frac{1}{2} \) 2255 1 1083 \(\frac{1}{2} \) 2255 2 412 \(\frac{1}{2} \) 2770 2 1194 2020 1 174 \(\frac{1}{2} \) 2275 1 1089 \(\frac{1}{2} \) 2020 1 174 \(\frac{1}{2} \) 2275 1 1010 \(\frac{1}{2} \) 22520 2 477 2770 2 1194 2020 1 193 \(\frac{1}{2} \) 2275 1 1110 \(\frac{1}{2} \) 2520 2 443 \(\frac{1}{2} \) 2780 2 1209 2030 1 211 \(\frac{1}{2} \) 2275 1 1119 \(\frac{1}{2} \) 2520 2 443 \(\frac{1}{2} \) 2780 2 1209 2040 1 248 \(\frac{1}{2} \) 2285 1 1156 2535 2 474 \(\frac{1}{2} \) 2790 2 1275 \(\frac{1}{2} \) 2750 1 1239 \(\frac{1}{2} \) 2750 1 2275 1 1119 \(\frac{1}{2} \) 2520 2 443 \(\frac{1}{2} \) 2760 2 1276 \(\frac{1}{2}	2005	1		2255	1	1046 ਦੂ	2505	2	381 5	2755	2	1148
2026	2010	1	138 😧	2260	1	1004 []	2510	2	397 💆	2760	2	1163
2026	2015	1	156 🚡	2265	1 [1083 🚨	2515	2	412 😤	2765	2	1179
2025 1 193 g 2270 1 1119 c 2525 2 427 2775 2 1209 2035 1 231 2275 1 1119 c 2525 2 437 2780 2 1224 2046 1 248 c 2880 1 1138 2533 2 469 k 2780 2 1224 2046 1 248 c 285 1 1138 2533 2 469 k 2780 2 1224 2046 1 248 c 285 2290 1 1174 2540 2 489 c 2780 2 1225 d 248 c 2850 1 2255 1 1193 2540 2 489 c 2880 2 1225 d 2850 2 1270 k 2850 2 295 1 1174 2540 2 489 c 2850 2 1270 k 2850 2 1255 d 2850 2 1270 k 2850 2 1255 d 2850 2 1270 k 2850 2 1270 2 1270 k 2850 2 1270 2 1270 k 2850 2 1270 2 1270 1 1732 2 1270 1 1732 2 1270 1 1732 2 1270 1 1732 2 1270 1 1732 2 1270 1 1732 2 1270 1 1732 2 1270 1 1732 2 1270 1 1732 1270 1 1732 2 1270 1 1732 2 1270 1 1732 2 1270 1 1732 2 1270 1 1870 2 1270 1 1870 2 1270 1 1870 2 1270 1 1870 2 1270 1 1870 2 1270 1 1870 2 1270 1 1870 2 1270 1 1870 2 1270 1 1870 2 1270 1 1870 2 1270 1 1870 2 1270 1 1870 2 1270 1 1870 2 1270 1 1870 2 1270	2020	1		2267	1	1089 .≥				2770	2	1194
2040 1 246	2025	1	193 👼	2270	1	1101 🚆	2520	2	427	2775	2	1209
2040 1 246 7 2285 1 1156 2535 2 474 2 2795 2 1220 2 2120 2 2050 1 285 2290 1 1174 2540 2 489 2 2805 2 1300 2 2 1228 2 255 2 505 2 250 2 2810 2 1310 2 2 1230 2 2 1228 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2030	1	211 😤	2275	1	1119 👸	2525	2	443	2780	2	1224
2040 1 246	2035	1	230 😇	2280	1		2530	2	458 😧	2785	2	1239 😙
2045	2040	1	248 📆				2533	2	469 🚡	2790	2	1254
2050	2045	1		2285	1	1156	2535	2	474 🚊	2795	2	
2055 1 303 2300 1 1211 2250 2 500	2050	1	285	2290	1	1174	2540	2	489 5	2800	2	1285 =
2005			i	2295	1		2545	2	505	2805	2	1300 :≝
2005	2055	1	303	2300	1	1211	2550	2	520 ¹⁰	2810	2	1315∻
2005	2060	1	322	2305	1	1229 🛎	2555	2	535 ^C	2815	2	1330 ల్ల
2075 1 379	2065	1		2310	1 1	1247 ह	2560	2		2820	2	1345
2085	2070	1	359 ວ	2315	1	1265 👱				2825	2	1361
2085	2075	1	377 📜	2320	1		2565	2	567	2830	2	1376
2085	2086	1	396 🚨	2325	1	1302 🚡	2570	2	590	2835	2	1391
2106	2085	1	415 🖁	2330	1	1321 🧓	2575	2	597	2840	2	1406
2106	2090	1	433 :≝	2335	1	1339 ో	2580	2	613	2845	2	1421
2106	2095	1	452 🕏	2340	1	1357	2585	2	628 🔀	2850	2	1436
2110	2100	1	470 😤	2345	1	1376	2590	2	644 🙀			
2115	2105	1	489	2350	1	1394	2595	2		2855	2	1452
2360	2110	1	508				2600	2	674 <u>5</u>	2860	2	1469
\$\frac{2}{2} \begin{array}{c c c c c c c c c c c c c c c c c c c	2115	1	526	2355	1	1412	2605	2	690 <u>:</u> ≅	2865	2	1482
2126 1 545 2355 1 1449 2 2615 2 721 2875 2 1513 2 2126 1 564 2370 1 1486 2 2620 2 736 2880 2 1528 2 1528 2 133				2360	1		2610	2	705 💆	2870	2	1498 ତ୍ର
2125	2120	1	545	2365	1	1449 😨	2615	2	721 5	2875	2	1513
2133 1 595 2 2380 1 1504 5 2630 2 767 2890 2 1559 5 2135 2140 1 620 5 2395 1 1523 6 2640 2 797 2905 2 1590 2 2145 1 638 2395 1 1560 2640 2 797 2905 2 1605 2150 1 657 2 2400 1 1578 2650 2 813 3 2910 2 1621 2155 1 675 2 2400 1 1578 2650 2 828 2915 2 1636 2160 1 693 2400 2 060 2655 2 844 8 2915 2 1636 2160 1 693 2405 2 076 2660 2 859 2 2920 2 1653 2170 1 732 2415 2 106 3 2667 2 879 2 2925 2 1668 2175 1 750 2420 2 121 2 2670 2 890 2 2333 2 1694 2 2180 1 769 2425 2 137 2 2675 2 905 2935 2 1699 3 2195 1 806 2 2435 2 168 2 2200 1 843 2 2445 2 198 2690 2 951 2955 2 1779 2210 1 880 2 2455 2 228 2705 2 996 2 2965 2 1779 2210 1 880 2 2455 2 228 2705 2 996 2 2975 2 1811 2225 1 935 2 2465 2 2470 2 243 2710 2 1012 3 2975 2 1827 3 2235 1 972 2475 2 290 3 2775 2 1037 2 2985 2 1800 2 2335 2 1827 3 2235 1 972 2475 2 290 3 2775 2 1037 2 2985 2 1860 2 2235 1 9972 2475 2 290 3 2775 2 1037 2 2985 2 1860 2 2235 1 9972 2475 2 290 3 2775 2 1037 2 2985 2 1860 2 2235 1 9972 2475 2 290 3 2775 2 1037 2 2985 2 1860 2 2240 1 991 2480 2 335 2 2735 2 1088 2995 2 1877 3 2250 1 1009 2485 2 3351 2745 2 1118 2775 2 1037 2 2995 2 1893 2 2250 1 1007 2495 2 3351 2745 2 1118 2 2775 2 2995 2 1893 2 2255 1 1007 2495 2 3351 2745 2 1118 2 2755 2 1118 2 2755 2 2755 2 2755 2 2755 2 2755 2 2755 2 2755 2 2755 2 2755 2 2755 2 2755 2 2755	2125	1	564	2370	1	1468	2620	2	736	2880		
2135		1	582 ⊋	2375	1		2625	2	756	2885	2	1544 뿣
2135	2133	1	595 🕇	2380	1	1504 🚔	2630	2	767	2890	2	1559 :្ទី
2145	2135	1	601 🚨		1					2895	2	
2150 1 657 c	2140	1	620 <u>.≥</u>		[1 [
2160		1		l l				ì	797	li .		
2160		1	657 ල්	2400	1	1578	1		813 _{වූ}		1	
2165		1	(1	1	828	2915	2	1636
2170		I		l.					844 🚨			1
2170	2165	1	713	ll .			1		859 🙎			
2175		1	1						874 : 5			1668
2185			1			106 😧	1	1			1	1683 ਦੂ
2185		į.		11	l .	121 🙀			_	ll .		1694
2200 1			1		l .	137 🚾				li .	,	1699 🕰
2200 1				11		152 -≨	2680	2	920			1715 ह
2200 1		1		18				_		1		1731
2205 1 862 & 2450 2 213 2695 2 966 2960 2 1779		1	824 g	n = · · · -				_				1749 😈
2210		I	843	11				1				
2225 1 935 \ 9 2465 2 259 \ 2 2715 2 1027 \ 2 2980 2 1843 \ 2 235 1 972 2475 2 290 \ 2 2480 2 305 \ 2 245 1 1009 2485 2 320 \ 2 250 1 1027 2490 2 335 \ 2 2745 2 2745 2 1118 2995 2 1893 \ \mathred{e}			862 -	2450	2	213		1		ll .	1	
2225 1 935 \ 9 2465 2 259 \ 2 2715 2 1027 \ 2 2980 2 1843 \ 2 235 1 972 2475 2 290 \ 2 2480 2 305 \ 2 245 1 1009 2485 2 320 \ 2 250 1 1027 2490 2 335 \ 2 2745 2 2745 2 1118 2995 2 1893 \ \end{align*} 2225 1 935 \ 9 2470 2 274 \ \end{align*} 2470 2 274 \ \end{align*} 2720 2 1042 \ \end{align*} 2980 2 1843 \ \end{align*} 2985 2 1860 \ \end{align*} 2990 2 1877 \ \end{align*} 2245 1 1009 2485 2 320 \ \end{align*} 2735 2 1088 2995 2 1893 \ \end{align*} 2495 2 351 2745 2 1118 3000 2 1910 3000		1	880 ह				11			2965	2	1795
2225 1 935 \ 9 2465 2 259 \ 2 2715 2 1027 \ 2 2980 2 1843 \ 2 235 1 972 2475 2 290 \ 2 2480 2 305 \ 2 245 1 1009 2485 2 320 \ 2 250 1 1027 2490 2 335 \ 2 2745 2 2745 2 1118 2995 2 1893 \ \end{align*} 2225 1 935 \ 9 2470 2 274 \ \end{align*} 2470 2 274 \ \end{align*} 2720 2 1042 \ \end{align*} 2980 2 1843 \ \end{align*} 2985 2 1860 \ \end{align*} 2990 2 1877 \ \end{align*} 2245 1 1009 2485 2 320 \ \end{align*} 2735 2 1088 2995 2 1893 \ \end{align*} 2495 2 351 2745 2 1118 3000 2 1910 3000		1	898	11			* 1	1	996-2	0070		4044
2225 1 935 2465 2 259 2715 2 1027 2975 2 1827 2 2 2 2 2 2 2 2 2		1		II		243	ll .		1012			_
2240		1	935 %	11				1	1027			1827 💆
2240				11		274 6	II .	1	1042 .9		1	1843
2250 1 1027 2490 2 335 2 2740 2 1103 3000 2 1910 2495 2 351 2745 2 1118		1		II .			11	1	1057		1	1860
2250 1 1027 2490 2 335 2 2740 2 1103 3000 2 1910 2495 2 351 2745 2 1118				41	1		H	1	10/3		1	
		1		11	1	320 .	II			III		
	2250	1	1027	II	1	335	II	1		3000	2	1910
2700 2 1133		}		16			H	1		}		
]	1	2500	1 4	200	2/50		1133	<u></u>	1	

TABLE 5-5. CALIBRATION OF TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-1 UNIT IS USED (Continued)

3000 Kc to 4000 Kc

Freq.	A	В	Freq.	A	В	Freq.	A	В	Freq.	Α	В
3000	3	100	3250	3	719	3500	3	1333	3750	4	366 376 🗓
3005	3	113	3255	3	731	3505	3	1345	3755	4	¥۔ 376
3010	3	126	3260	3	743	3510	3	1357	3760	4	386 💆
3015	3	138	3265	3	755	3515	3	1369	3765	4	397 🖫
3020	3		3270	3	769	3520	3	1381	3770	4	397 <u>-</u> 407 -
3025	3	150 162 😧	3275	3	781	3525	3	1394	3775	4	417 2
3030	3	174 ह	3280	3	793	3530	3	1406			
3035	3	186 👱	3285	3	806 <u>3</u>	3535	3	1440 🖘 📗	3780	4	427
3040	3	100 2	3290	3	919	3540	3	1420 -	3785	4	437
1		198 · 211 년		3	818 b 830 m	3545	3	1430	3790	4	447
3045	3	211.2	3295	3	942 5	IL .	1	1456 5		4	458
3050	3	223 ທ	3300		843 5 855 5 867 6	3550	3	1468	3795		400 -
3055	3	235 🖰	3305	3	855 2	3555	3	1468 5	3800	4	469 g
3060	3	248	3310	3	867	3560	3	1480	3805	4	4/9
3065	3	260	3315	3	880 %	3565	3	1492 🛱	3810	4	489 🖁
3070	3	272	3320	3	892	3570	3	1504	3815	4	499 509 509 5 520 5
3075	3	285	3325	3	904	3575	3	1516	3820	4	509 :₹
		1	3330	3	917	3580	3	1528	3825	4	
3080	3	297	3335	3	929	3585	3	1541	3830	4	530 🖰
3085	3	309	3340	' 3	941	3590	3	1553	3835	4	540
3090	3	322	3345	3	954	3595	3	1565	3840	4	551
3095	3	334	3350	3	966	3600	3	1578	3845	4	561
3100	3	346			1				3850	4	571
3105	3	359	3355	3	978	3600	4	060			
3110	3	371	3360	3	991	3605	4	070	3855	4	582
3115	3	383 ♀	3365	3	1003	3610	4	080	3860	4	592
3120	3	396	3370	3	1015	3615	4	091	3865	4	602
3125	3	408	3375	3	1027 ਦੂ	3620	4	101	3870	4	613
3130	3	420 .5	3380	3	1039	3625	4	116	3875	4	623
	3	433 :	3385	3	1051	3630	4	116 121 👻	3880	4	633
3135					1064 >	3635	4	131 🖁	3885	4	644
3140	3	445 9	3390	3	1064 .≩	II.					654 ≆
3145	3	457 %	3395	3	1076	3640	4	141 <u>÷</u>	3890	4	
3150	3	470	3400	3	1088 전	3645	4	152 5	3895	4	664
3155	3	483	3405	3	1101	3650	4	162 💆	3900	4	6/4
3160	3	496	3410	3	1113	3655	4	172	3905	4	684 .5 694 .5
3165	3	508	3415	3	1125	3660	4	183	3910	4	
3170	3	520	3420	3	1138	3665	4	192	3915	4	705
3175	3	532				3670	4	203	3920	4	715
			3425	3	1150	3675	4	213	3925	4	725
3180	3	545	3430	3	1162				3930	4	736
3185	3	557	3435	3	1174	3680	4	223	3935	4	746
3190	3	569	3440	3	1186	3685	4	233	3940	4	756
3195	3	582	3445	3	1198	3690	4	243	3945	4	767
3200	3	594 ♀	3450	3	1211 g	3695	4	253	3950	4	777
3205	3	606	3455	3	1223	3700	4	264 ♀			
3210	3		3460	3	1223 - 1235 - 12	3705	4	275	3955	4	787
3215	3	632 .0	3465	3	1247 ≟	3710	4	285	3960	4	797
3220	3	644 :	3470	3	1259 ເກ	3715	4	295 5	3965	4	
	1	657 6			1271 8	li .	4	285 5 295 295 305 <u>12</u>	3970	4	807 -
3225	3	657	3475	3		3720		315		1	828
3230	3	669 &	3480	3	1284	3725	4	315 C	3975	4	020 2
3235	3	681	3485	3	1296	3730	4	020	3980	4	838
3240	3	693	3490	3	1308	3735	4	335	3985	4	848
3245	3	706	3495	3	1321	3740	4	345	3990	4	859
3250	3	719	3500	3	1333	3745	4	355	3995	4	869

TABLE 5-5. CALIBRATION OF TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-1 UNIT IS USED (Continued)
4000 Kc to 5000 Kc

Freq.	A	B	Freq.	A	В	Freq.	A	В	Freq.	A	В
4000	5	100	4250	5	564	4500	5	1027	4750	5	1486
4005	5	109	4255	5	573	4505	5	1036	4755	5	1495
4010	5	119	4260	5	582	4510	5	1046	4760	5	1504 💃
4015	5	128	4265	5	591	4515	5	1055	4765	5	
4020	5	138	4267	5	595	4520	5	1064 😧	4770	4	1502 0
4025	5	147	4270	5		4525	5		4775	5	1532 5 1541 5 1550
4030	5	156	4275	5	601 610 	4530	5	1002 6	4780	5	1541
		165 ≩	4280	1	620 🛣	4533	5	1089 6 1092 5 1101 7	4785	5	1550
4035	5			5	020 <u>A</u>			1000 -5			1560
4040	5	174 ह	4285	5	629 s 638 ; <u>i≥</u> 647 <u>i</u> 0	4535	5	1092 5	4790	5	1560 =
4045	5	183 🚆	4290	5	638 :	4540	5	1101 👼	4795	5	1569
4050	5	193 🢆	4295	5	647 :€	4545	5	1110 =	4800	5	1578
4055	5	183 su 193 su 202 <u>i i</u> 211	4300	5	657 c e	4550	5	1119			Ì
4060	5	211	4305	5	666 €	4555	5	1128	4800	6	060
4065	5	220 =	4310	5	675	4560	5	1138	4805	6	068
4070	5	230	4315	5	684	4565	5	1147	4810	6	076
4075	5	239	4320	5	693				4815	6	084
4080	5	248	4325	5	702	4570	5	1156	4820	6	091
4085	5	257	4330	5	713	4575	5	1165	4825	6	099
4090	5	267	7330	'	, , , ,	4580	5	1174	4830	6	106
	5	1	4335	5	722	4585	5	1183	4835	6	114 3
4095		276		1		II .					117.5
4100	5	285	4340	5	732 741 🚆	4590	5	1193	4840	6	121
		1	4345	5	741 💆	4595	5	1202	4845	6	129
4105	5	293	4350	5	750 🖹	4600	5	1211	4850	6	121 129 137 145
4110	5	303	4355	5	759 su 769 ::A	4605	5	1220	4855	6	145
4115	5	312	4360	5	769 🙎	4610	5	1229	4860	6	
4120	5	322	4365	5	778 ≩	4615	5	1238	4865	6	160
4125	5	331	4370	5	787 ∞	4620	5	1247 🗓	4870	6	168
4130	5	340	4375	5	796 €	4625	5	1256 and 1266 subject to 1275 of 1284 in 1293 and 1293 and 1302 in 1293 and 1302 in 1293 and 1302 in 1293 and 1302 in 1293 and 12	4875	6	176
4135	5	349	4380	5	806	4630	5	1266	4880	6	183
4140	5	359	4385	5	815	4635	5	1275 6	4885	6	191
4145	5	368	4390	5	824	4640	5	1284 5	4890	6	198
	5	377	4395	1	833	4645	5	1207 5	4895	6	206
4150	1	377		5		III.		1293 @		6	
4155	5	386 g	4400	5	843	4650	5	1302	4900	0	213
4160	5	396	4405	5	852	4655	5	1311		_	
4165	5	405 💆	4410	5	862	4660	5	1321	4905	6	221
4170	5	415 ह	4415	5	871	4665	5	1330	4910	6	228
4175	5	724	4420	5	880	4670	5	1339	4915	6	236
4180	5	433 🗒	4425	5	889	4675	5	1348	4920	6	243
4185	5	442	4430	5	898	4680	5	1357	4925	6	251
4190	5	452	4435	5	907	4685	5	1366	4930	6	259
4195	5	461	4440	5	917	4690	5	1376	4935	6	267
4200	5	470	4445	5	926	4695	5	1385	4940	6	274
4205	5	479	4450	5	935	4700	5	1394	4945	6	282
4210	5	489	4455	5	944]		4950	6	290
	1		4460	5	954	4705	5	1403	4955	6	208
4215	5	498	1	"	354	4710	5	1412	4960	6	298 : 305 :
4220	5	508	4405	_	063					6	313
4225	5	517	4465	5	963	4715	5	1421 1430 - 3	4965	1	313
4230	5	526	4470	5	972 😧	4720	5		4970	6	
			4475	5	981 %	4725	5	1439 ខ្លី	4975	6	328
4235	5	535 🗳	4480	5	991 🖁	4730	5	1449 👱	4980	6	335
4240	5	545	4485	5	1000 5	4735	5	1458 😇	4985	6	343
4245	5	554	4490	5	1009 : 5 1018 © 1027 =	4740	5	1468 🚆	4990	6	351
4250	5	564 ₹	4495	5	1018 ¹⁰	4745	5	1477	4995	6	359
4267	5	595 ∞	4500	5	1027 =	4750	5	1486	5000	6	366
70 V I	1 -	333 8	4533	5	i ' =	11 7,00	5	1578	-300	1	1 223

TABLE 5-5. CALIBRATION OF TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-1 UNIT IS USED (Continued)

5000 Kc to 6000 Kc

Freq.	A	В	Freq.	A	В	Freq.	A	В	Freq.	A	В
5000	6	366 🖫	5250	6	752	5500	6	1133	5750	6	1513
5005	6	374 5 381 5 389 5 397 5 405 5	5255	6	760	5505	6	1141	5755	6	1521
5010	6	381 🚨	5260	6	767	5510	6	1148	5760	6	1528
5015	6	389 5	5265	6	775	5515	6	1156	5765	6	1536
5020	6	397 🗏	5270	6	782	5520	6	1163	5770	6	1544
5025	6	405 📅	5275	6	790	5525	6	1171	5775	6	1552 😧
5030	6	412	5280	6	797	5530	6	1179	5780	6	1559
	1		5285	6	805	5535	6	1187	5785	6	1567 🖁
5035	6	420	5290	6	813	5540	6	1194	5790	6	1574 <u>5</u> 1582 <u>5</u>
5040	6	427	5295	6	821 🖫	5545	6	1202	5795	6	1582 😤
5045	6	435	5300	6	828 5	5550	6	1209	5800	6	1590 😇
5050	6	443	5305	6	830 . (5555	6	1217	5805	6	1598 🗒
5055	6	451	5310	6	844 6	5560	6	1224	5810	6	1605
5060	6	458	5315	6	844 655 852 12 859 19	5565	6	1232	5815	6	1613
5065	6		5320	6	859 -	5570	6	1239	5820	6	1621
5067	6	466 😨 469 474 🕹	5325	6	867	5575	6	1247	5825	6	1629
		474 8	5330	6	874	5580	6	1254	5830	6	1636
5070	6	4/4 1	5333	6	879	5585	6	1262 🖫		•	
5075	6	482 % 489 % 497 Ö	5335	6	882	5590	6	1270	5835	6	16 44
5080	6	469 .5			11	5595	6	1279	5840	6	1653
5085	6	49/10	5340	6	890	5600	6	1278 5 1285 .5 1293 .2 1300 P	5845	6	1661
5090	6	505 '2	5345	6	898		6	1003 :5	5850	6	1668
5095	6	513 ^C	5350	6	905	5605		1293 .5	5855	6	1676
5100	6	520	5355	6	913	5610	6	1300 %	5860	6	1683
5105	6	528	5360	6	920	5615	6	1308 =			1691
5110	6	535	5365	6	928	5620	6	1315	5865	6	1694 £
5115	6	543				5625	6	1323	5867	6	
5120	6	551	5370	6	935	5630	6	1330	5870	6	1699
5125	6	559	5375	6	943	5635	6	1338	5875	6	1/0/
5130	6	567	5380	6	951	5640	6	1345	5880	6	1715 .5 1723 .5 1731 .5
			5385	6	959	5645	6	1353	5885	6	1723 🚡
5135	6	575	5390	6	966	5650	6	1361	5890	6	1751
5140	6	582	5395	6	974	5655	6	1369	5895	6	1739
5145	6	590	5400	6	981	5660	6	1376	5900	6	1747
5150	6	597	5405	6	989	5665	6	1384	5905	6	1755
5155	6	605	5410	6	996	5690	6	1391	5910	6	1763
5160	6	613	5415	6	1004	5675	6	1399	5915	6	1771
5165	6	621	5420	6	1012 😧	5680	6	1406	5920	6	1779
5170	6	628	5425	6		5685	6	1414	5925	6	1787
5175	6	636 g 644	5430	6	1020	5690	6	1421	5930	6	1795
5180	6	644 💆	5435	6	1035 5 1042 1050 PD	5695	6	1429			
5185	6	652 🗸	5440	6	1042 🕏	5700	6	1436	5935	6	1803
5190	6	659 ≄	5445	6	1050 😇				5940	6	1811
5195	6	667 ⋅≅	5450	6	1057 💆	5705	6	1444	5945	6	1819
5200	6	667 :5 674 ÷	5455	6	1065	5710	6	1452	5950	6	1827 🔐
5205	6	682 5	5460	6	1073	5715	6	1460 😧	5955	6	1835 🚆
5210	6	690 E	5465	6	1081	5720	6	1467 -	5960	6	1844 🙎
5215	6	698	5470	6	1088	5725	6	1475	5965	6	1852 g
5220	6	705	5475	6	1096	5730	6	1482 5	5970	6	1860 : 1868 ≥
5225	6	713	5480	6	1103	5735	6	1490	5975	6	1868 ≩
5230	6	721	5485	6	1111	5740	6	1498	5980	6	1877 •
	6	729	5490	6	1118	5745	6	1506	5985	6	1885 =
5235 5240			5490 5495	6	1126	5750	6	1513	5990	6	1893
5240 5045	6	736	И	6	1133	5800	6	1590	5995	6	1901
52 4 5	6	744	5500	١	1133	3000	"	2004	6000	6	1910
5250	6	752	ll	1		ll.	1	<u> </u>			

TABLE 5-5. CALIBRATION OF TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-1 UNIT IS USED (Continued)

6000 Kc to 7000 Kc

Freq.	A] в [Freq.	A	В	Freq.	A	В	Freq.	A	В
6000	7	100	6250	7	408	6500	7	719	6750	7	1027
6005	7	106	6255	7	415	6505	7	725	6755	7	1033
6010	7	112	6260	7	421	6510	7	732	6760	7	1039
6015	7	119	6265	7	427	6515	7	738	6765	7	1046
6020	7	125	6270	7	433	6520	7	744	6770	7	1052
6025	7	131	6275	7	439	6525	7	744 750 g 756 .	6775	7	1058
6030	7	138	6280	7	445	6530	7	756 -	6780	7	1064
6035	7	144	6285	7	452 <u>`g</u>	6535	7	762	6785	7	1070 ਦੂ
6040	7	150	6290	7	458 5	6540	7	769 =	6790	7	1076
6045	7	156	6295	7	458 464 464 50 00 00 00 00 00 00 00 00 00 00 00 00	6545	7	769 2 775 : 9 781 -1	6795	7	1083
6050	1	162	6300	7	470 É	6550	7	7/3 .5	68 00	7	1089 g
	7		1		470 .0			707 -:			1005
6055	7	168	6305	7	4/0:2	6555	7	787 %	6805	7	1095
6060	7	174 😨	6310	7	482 8	6560	7	793 C	6810	7	1101 %
6065	7	180	6315	7	489 2	6565	7	799	6815	7	1107 💆
6070	7	186 🖺	6320	7	495	6570	7	806	6820	7	1113
6075	7	193 seo 199 isi 199 isi 205	6325	7	501	6575	7	812	6825	7	1119
6080	7	199 😤	6330	7	508	6580	7	818	6830	7	1125
6085	7	205 ~	6335	7	514	6585	7	824	6835	7	1131
6090	7	211 2	6340	7	520	6590	7	830	6840	7	1138
6095	7	217	6345	7	526	6595	7	836	6845	7	1144
6100	7	223	6350	7	532	6600	7	843	6850	7	1150
6105	7	230	l	\		6605	7	849			1
6110	7	236	6355	7	538	6610	7	855	6355	7	1156
6115	7	242	6360	7	545	6615	7	862	6360	7	1162
6120	7	248	6365	7	551	6620	7	868	6865	7	1168
6125	7	254	6370	7	557	6625	7	874	6870	7	1174
	7	260	6375	7	564	6630	7	880	6875	7	
6130			6380	1		!!	7	886	6880	7	1180 () 1186 () 1193 ()
6135	7	267	II	7	570	6635		I I			1100
6140	7	273	6385	7	576	6640	7	892	6885	7	1193 2
6145	7	279	6390	7	582	6645	7	898 <u>3</u>	6890	7	1199
6150	7	285	6395	7	588	6650	7	904-	6895	7	1199 1205 1205 1211
		<u> </u>	6400	7	595	6655	7	910 🙎	6900	7	1211 -
6155	7	291	6405	7	601	6660	7	917 🙎	6905	7	1217 ณ
6160	7	297	6410	7	607 ු	6665	7	923 :ဋ္ဌိ	6910	7	1223 =
1665	7	303	6415	7	607 613 ½ 620 ½	6670	7	917 \$ 923 : 929 : 929 :	6915	7	1229
6170	7	309	6420	7	620 🙎	6675	7	935 ∾	6920	7	1235
6175	7	315	6425	7	626 2	6680	7	941 =	6925	7	1241
6180	7	322	6430	7	626 2 632 2	6685	7	947	6930	7	1247
6185	7	328	6435	7	638 ≟	6690	7	954	6935	7	1253
6190	7	334 😧	6440	7	644 ณ	6695	7	960	6940	7	1259
6195	7	340 🚡	6445	7	650 =	6700	7	966	6945	7	1266
6200	7	346	6450	7	657				6950	7	1272
6205	7	352 ह	6455	7	663	6705	7	972	6955	7	1278
6210	7	359 🕏	6460	7	669	6710	7	978	6960	7	1284
6215	7	365	6465	7	675	6715	7	984 <u>ਦ</u>	6965	7	1290
	1	371 =	6470			6720	7	901 :	6970	7	1296
6220	7	3715	III.	7	681	II	1	991 5	ll .		1
6225	7	377	6475	7	687	6725	7		6975	7	1302
6230	7	383	6480	7	693	6730	7	1003 .5	6980	7	1308
6235	7	389	6485	7	699	6735	7	1009 🚡	6985	7	1314
6240	7	396	6490	7	705	∬ 6740	7	1015	6990	7	1321
6245	7	402	6495	7	713	6745	7	1021 😤	6995	7	1327
6250	7	408	6500	7	719	6750	7	1027	7000	7	1333
6300	7	470	11	1	1	6800	7	1089	II .	1	1

TABLE 5-5. CALIBRATION OF TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-1 UNIT IS USED (Continued)

7000 Kc to 8000 Kc

Freq.	A	В	Freq.	A	В	Freq.	A	В	Freq.	A	В
6900	7	1211	7200	8	060	7500	8	366	7750	8	623
7000	7	1333	7250	8	111	7505	8	371	7755	8	628
79 05	7	1339	7255	8	116	7510	8	376 😧	7760	8	633
7010	7	1345 ਦ	7260	8	121	7515	8	301 L	7765	8	638
7015	7	1301 - 1	7265	8	126	7520	8	386 🐍	7770	8	644
7020	7	1357 💆	7270	8	131	7525	8	391 5 397 5 402 9	7775	8	649
7025	7	1363 <u>.</u> ≱	7275	8	137	7530	8	397 😤	7780	8	654
7030	7	1369 🙀 📗	7280	8	142	7535	8	402 😇	7785	8	659
7035	7	1376	7285	8	147 🖫	7540	8	407 🗁	7790	8	664
7040	7	1382	7290	8	152	7545	8	412	7795	8	669
7045	7	1388	7295	8	157 🗜	7550	8	417	7800	8	674
7050	7	1394	7300	8	162 :물				7805	8	679
			7305	8	162 :5 168 : <u>X</u>	7555	8	422	7810	8	684 690 3
7055	7	1400	7310	8	173 =	7560	8	427	7815	8	690 🛣
7060	7	1406	7315	8	178	7565	8	432	7820	8	695
7065	7	1412	7320	8	183	7570	8	437	7825	8	700 5
7070	7	1418	7325	8	188	7575	8	443	7830	8	700 5 705 15 710 P
7075	7	1424	7330	8	193	7580	8	448	7835	8	710 %
7080	7	1430	7335	8	198 .	7585	8	453	7840	8	715 =
7085	7	1436	7340	8	203	7590	8	458	7845	8	721
7090	7	1442	7345	8	208	7595	8	463	7850	8	726
7095	7	1449	7350	8	213	7600	8	469	7855	8	731
7100	7	1455	7255		010	7605	8	474	7860	8	736
7105	7	1461	7355	8	218	7610	8	479	7865	8	741
7110	7	1468 1474 -	7360 7365	8	223	7615 7620	8 8	484 🖫	7870 7875	8	746 752
7115 71 2 0	7	1480	7370	8 8	228 233	7625	8	489 5	7880	8	757
7120 7125	7	1400 6	7375	8	238	7625 7630	8	499 .55 505 .45	7885	8	762
7130	7	1402.9	7379	8	243	7635	8	505 ×	7890	8	767
7135	7	1486 = 1492 := 1498 := 1498	7385	8	248	7640	8	510 =	7895	8	772
7140	7	1504 ญ	7390	8	253	7645	8	515	7900	8	777
7145	7	1510 =	7395	8	259	7650	8	520	7300	"	'''
7150	7	1516	7400	8	264	7655	8	525	7905	8	782
7155	7	1523	7405	8	269	7660	8	530	7910	8	787
7160	7	1529	7410	8	274	7665	8	535	7915	8	792
7165	7	1535	7415	8	279 😧	7670	8	540	7920	8	790
7170	7	1541	7420	8	284	7675	8	545	7925	8	802
7175	7	1547	7425	8	290	7680	8	551	7930	8	807
7180	7	1553	7430	8	295 5	7685	8	556	7935	8	813
7185	7	1560	7435	8	295 <u>5</u> 300 <u>2</u>	7690	8	561	7940	8	818 🖫
7190	7	1566	7440	8	305	7695	8	567	7945	8	823 5
7195	7	1572	7445	8	310 =	7700	8	572	7950	8	828 6
7200	7	1578	7450	8	315				7955	8	833 .5
		1	7455	8	320	7705	8	577	7960	8	838.≥
7200	8	060	7460	8	325	7710	8	582	7965	8	844
7205	8	065	7465	8	330	7715	8	587 <u>3</u> 592 2	7970	8	849
7210	8	070	7470	8	335	7720	8	592 🚆	7975	8	854
7215	8	076 😧	7475	8	340	7725	8	597 ፟	7980	8	859
7220	8	081 E	7480	8	345	7730	8	602 5 607 3	7985	8	864
7225	8	086 K	7485	8	351	7735	8	607 達	7990	8	869
7230	8	091 ≛	7490	8	356	7740	8	613 😇	7995	8	874
7235	8	096 _	7495	8	361	7745	8	618 ⊂	8000	8	879
7240	8	101	7500	8	366	7750	8	623			1
7245	8	106		1		7800	8	674			
7250	8	111	U	1	1	1	1	1		1	I

TABLE 5-5. CALIBRATION OF TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-1 UNIT IS USED (Continued)

8000 Kc to 10,000 Kc

Freq.	A	В	Freq.	A	В	Freq.	A	В	Freq.	A	В
8000	8	879	8400	8	1285 g	9000	9	100	9450	9	470
8010	8	879 890 - 3	8500	8	1386	9010	9	108	9500	9	510
8020	8	900 🖺 📗	8510	8	1396	9020	9	116	9510	9	518
8030	8	910 <u>≥</u> 920 [±]	8520	8	1406 5	9030	9	124	9520	9	527
8040	8	920 😇	8530	8	1416 🚆	9040	9	132		ì	
8050	8	930 =	8540	8	1426 😇	9050	9	140	9530	9	536
		l ll	8550	8	1436 =	9060	9	148	9540	9	545
8060	8	940				9070	9	156	9550	9	553
8070	9	951	8560	8	1446	9080	9	165	9560	9	561
8080	8	961	8570	8	1456	9090	9	174 ~	9570	9	570
8090	8	971	8580	8	1467	9100	9	174 g 182 ਵ	9580	9	
8100	8	981	8590	В	1477	9110	9	190 🕹	9590	9	586 -
8110	8	991	8600	8	1487	9120	9	198 #	9600	9	578 <u>~</u> 586 <u>*</u> 595 *
8120	8	1001	8610	8	1498	9130	9	198 # 206 : <u>si</u> 214 p	9610	9	601 #
8130	8	1010 7	8620	8	1508	9140	9	214 ≟	9620	9	601 \$600 \$620 \$6
8140	8	1022	8630	8	1518 🕏	9150	9	222 8	9630	9	620 :
8150	8	1032	8640	8	1570 5	9160	9	230 8	9640	9	628 m
8160	8	1042.5	8650	8	1528 5	9170	9	239	9650	9	628 g 636 💛
8170		1042.5			1548 -	9180		248	9660	9	644
	8	1052	8660	8	1540 %		9				
8180	8	1062	8670	8	1559 ≟	9190	9	256	9670	9	652
8190	8	10/3	8680	8	1569 =	9200	9	264	9680	9	660
8200	8	1083	8690	8	1579	9210	9	272	9690	9	668
8210	8	1093	8700	8	1590	9220	9	280	9700	9	676
8220	8	1103	8710	8	1600	9230	9	288	9710	9	684
8230	8	1113	8720	8	1610	9240	9	296	9720	9	693
8240	8	1123	8730	8	1621	6250	9	304	9730	9	701
8250	8	1133	8740	8	1631				9740	9	709
		1	8750	8	1641	9260	9	313	9750	9	717
8260	8	1143		ì		9270	9	322	1)	
8270	8	1153	8760	8	1653	9280	9	330	9760	9	725
8280	8	1163	8770	8	1663	9290	9	338	9770	9	733
8290	8	1173	8780	8	1673	9300	9	346	9780	9	742
8300	8	1183	8790	8	1683	9310	9	354	9790	9	751
8310	8	1194	8800	8	1694 3	9320	9	362	9800	9	760
8320	8	1204	8810	8	1704 🚆	9330	9	370	9810	9	769
8330	8	1214	8820	8	1715	9340	9	378	9820	9	777
8340	8	1224	8830	8	1725 \$	9350	9	387 😧	8930	9	785
8350	8		8840	8	1736	9360	9	396 ⊾	9840	9	793
8360	8	1244	8850	8	1747	9370	9	404 8	9850	9	801 🗓
8370	8	1234 🔾 1244 🚡 1254 🖺	8860	8	1757 =	9380	9	412 5 420 5	9860	9	
8380	8	1264 5	8870	8	1768	9390	9	420 😤	9870	9	817 6
8390	8	1274	8880	8	1779	9400	9	428 -5	9880	9	825 5
8400	8	1264 5 1274 2 1285 5	8890	8	1789	9410	9	436 8	9890	9	834 🕏
8410	8	1295 =	8900	8	1799	9420	9	444	9900	9	834 : 843 :
8420	8	1305		~		9430	9	452	9910	9	851 8
8430	8	1315	8910	8	1811	9440	9	461	9920	9	859
8440	8	1325	8920	8	1821 😧	9450	9	470	9930	9	867
8450	8	1335	8930	8	1832	9460	9	478	9940	9	875
8460	8				1832	II			II.	1	1
		1345	8940	8	1843	9470	9	486	9950	9	883
8470	8	1355	8950	8	1854	9480	9	494	9960	9	891
8480	8	1365	8960	8	1865 ₹	9490	9	502	9970	9	899
8490	8	1376	8970	8	1877 =	9500	9	510	9980	9	908
8500	8	1386	8980	8	1888				9990	9	917
	1	1	8990	8	1899	II .	1	ı	10000	9	925

TABLE 5-5. CALIBRATION OF TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-1 UNIT IS USED (Continued)

10,000 Kc to 12,000 Kc

Freq.	A	В	Freq.	A	В	Freq.	A	В	Freq.	A	В
9900	9	843 ⊋	10350	9	1211	11000	10	195	11400	10	469 😧
10000	9	925 sed 933 sed 941 sed 949 sed 957 88 965 8	10500	9	1333 😧	11010	10	202	11500	10	538 545 545 551 557 563 8
10010	9	933	10510	9	1341	11020	10	209	11510	10	545
10020	9	941 5	10520	9	1349	1,1030	10	216	11520	10	551 8
10030	9	949 🕏	10530	9	1357 5 1365 5 1373 5	11040	10	223	11530	10	557
10040	9	957 😇	10540	9	1365 🕏	11050	10	230	11540	10	563 😇
10050	9	965 8	10550	9	1373 [😇]	11060	10	237	11550	10	570 8
	-		10560	9	1381	11070	10	243			9
10060	9	973	10570	9	1389	11080	10	249	11560	10	577
10070	9	982				11090	10	256	11570	10	584
10080	9	991	10580	9	1397	11100	10	264	11580	10	591
10090	9	999	10590	9	1405	11110	10	270	11590	10	598
10100	9	1007	10600	9	1413	11120	10	277 🖫	11600	10	605
10110	9	1015	10610	9	1421	11130	10	284 💆	11610	10	613
10120	9	1023	10620	9	1430	11140	10		11620	10	619
10130	9	1031 তু	10630	9	1438	11150	10	297 .5	11630	10	625
10140	9	1039	10640	9	1446	11160	10	291 su 297 (11) 297 (11) 305 (11)	11630	10	625
10150	9	1039 bd. 1047 su 1055 su 1064 in 1072 m	10650	9	1454	11170	10	311 00	11650	10	639
10160	9	1055 है	10660	9	1462 😨	11180	10	311 9 317 9	11660	10	646
10170	9	1064	10670	9	1470	11190	10	324	11670	10	653 (y) 660 26 667 6 674 8 680 :ivi 687 7
10180	9	1072 =	10680	9	1478 4	11200	10	331	11690	10	660
10190	9	1080 8	10690	9	1486 5	11210	10	338	11690	10	667
10200	9	1089	10700	9	1494	11220	10	345	11700	10	674 É
10210	9	1097	10710	9	1494 🚡 1504 -	11230	10	352	11710	10	680
10220	9	1105	10720	9	1512 8	11240	10	359	11720	10	687 =
10230	9	1113	10730	9	1520	11250	10	366	11730	10	694 92
10240	9	1121	10740	9	1528	11260	10	372	11740	10	694 % 701 9
10250	9	1129	10750	9	1536	11270	10	378	11750	10	708
10260	9	1138	10760	9	1544	11280	10	385	11760	10	715
10200	"	1130	10770	9	1552	11290	10	392	11770	10	722
10270	9	1146	10780	9	1560	11300	10	399	11780	10	729
10280	9	1154	10790	9	1569	11310	10	406	11790	10	736
10290	9	1162	10800	9	1578	11320	10	413	11800	10	742
10300	9	1170	10000	•	1370	11320	'0	713	11810	10	748
10310	9	1178	10800	10	060	11330	10	420	11820	10	755
10370	9	1186	10810	10	066	11340	10	427	11830	10	762
10330	9	1194	10820	10	072	11350	10	433	11840	10	769
10330	9	1	10830	10	072	11360	10	440	11850	10	776
10350	9	1211	10840	10	086	11370	10	447	11850	.5	'''
10360	9	1202 1211 1219	10850	10	093	11370	10	454 😧	11860	10	783
10370	9	1227 🖔	10860	10	100	11390	10	462	11870	10	790
10370	9		10870	10	107 🖫	11400	10	469 8	11880	10	797
10390	9	1235 g 1243 :	10880	10		11410	10	475	11890	10	803
		1243 .5	10890	10	114 b	II		183 .	11900		_
10400 10410	9	1251 🕳	10990	10	121 s 127 0 134 2 141	11420 11430	10	482 :₹ 489 ' 0	11900	10 10	810 🛎
10410	9	1259 g 1267	10900	10	124 .5	11440	10	495 %	11910	10	817 <u>a</u> 824 <u>n</u>
			10910	10	141 8	11450	10	503 6	II .	1	024 8
10430	9	1275 1284	10920		141 89 148 90 156 90	11450	10	510	11930 11940	10	824 831 98 838 5 845
10440	9	I	10930	10	155	li .			II .	10	030 .÷
10450	9	1292	11	10	100	11470	10	517	11950	10	845 8 852 9
10460	9	1300	10950	10	162	11480	10	524	11960	10	852 8
10470	9	1308	10960	10	169	11490	10	531	11970	10	859
10480	9	1316	10970	10	176	11500	10	538	11980	10	866
10490	9	1324	10980	10	183		İ		11990	10	873
10500	9	1333	10990	10	189	II .	1	1	12000	10	879

TABLE 5-5. CALIBRATION OF TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-1 UNIT IS USED (Continued)

12,000 Kc to 14,000 Kc

Freq.	Α	В	Freq.	A	В	Freq.	Α	В	Freq.	A	В
12000	11	190	12500	11	408	13000	11	719	13500	11	1027
12010	11	106	12510	11	415	13010	11	725	13510	11	1033
12020	11	112	12520	11	421	13020	11	732	13520	11	1039
12030	11	119	12530	11	427	13030	11	738	13530	11	1046
12040	11	125	12540	11	433	13040	11	744	13540	11	1052
12050	11	131	12550	11	439	13050	11		13550	11	1058
12060	11	138	12560	11	445	13060	11	750 g 756 -	13560	11	1064
12070	11	144	12570	11	452 😧	13070	11	762	13570	11	1070 😨
12080	11	150	12580	11	458 -	13080	11		13580	11	1070 3
12090	11	156	12590	11	458 kg.	13090	11	769 ق 775 <u>ق</u>	13590		1076
12100	11	162	12600	11	464 470 470 476 482 9.0)	13100	11	775 <u>is</u> 781 - 2		11	1083
12110	11	160	12610	11	476 .5				13600	11	1089 1095 1095 1101
12110	11	168 () 174 () 180 ()	12620		470 <u>></u>	13110	11	787 9 793 9	13610	11	1095
12130		100 5	11	11	402 0	13120	11		13620	11	
	11	100 6	12630	11	489 0	13130	11	799	13630	11	1107 g
12140	11	187 2	12640	11	495	13140	11	806	13640	11	1113
12150	11	187 \$ 193 ;si 199 ;o	12650	11	501	13150	11	812	13650	11	1119
12160	11	199 %	12660	11	508	13160	11	818	13660	11	1125
12170	11	205 %	12670	11	514	13170	11	824	13670	11	1131
12180	11	211 8	12680	11	520	13180	11	830	13680	11	1138
12190	11	217	12690	11	526	13190	11	836	13690	11	1144
12200	11	223	12700	11	532	13200	11	843	13700	11	1150
12210	11	230				13210	11	849			
12220	11	236	12710	11	538	13220	11	855	13710	11	1156
12230	11	242	12720	11	545	13230	11	862	13720	11	1162
12240	11	248	12730	11	551	13240	11	868	13730	11	1168
12250	11	254	12740	11	557	13250	11	874	13740	11	1174
.12260	11	260	12750	11	564	13260	11	880	13750	11	1180 ♀
12270	11	267	12760	11	570	13270	11	886	13760	11	1186 5
12280	11	273	12770	11	576	13280	11		13770	11	1186 b
12290	11	27°	12780	11	582	13290	11	892 <u>;</u> 898 [13780	11	1100 8
,			12790	11	590	13300	11	904	13790	11	1199 .5 1205 :2
12300	11	285	12800	11	595	13310	11		13800	11	1200 2
12310	11	291	12810	11	601	13320		910 2		l .	1211 9
12320	11	297	12820				11	917 : 923 :p	13810	11	1217 e
12320	11	303	12830	11	607 2	13330	11	923 =	13820	11	1223
I			l I	11	620 &	13340	11	929 9 935 9	13830	11	1229
12340	11	309	12840	11	02U &	13350	11		13840	11	1235
12350	11	315	12850	11	620 5	13360	11	941	13850	11	1241
12360	11	322	12860	11	626 se 632 :si 638 :5	13370	11	947	13860	11	1247
12370	11	328 _© 334 ÷	12870	11	638 %	13380	11	954	13870	11	1253
12380	11	334	12880	11	644 %	13390	11	96C	13880	11	1259
12390	11	340	12890	11	650 8	13400	11	966	13890	11	1266
12400	11	346	12900	11	657				13900	11	1272
12410	11	352 :5 359 :5	12910	11	663	13410	11	972	13910	11	1278 ⊋
12420	11	359 ≒	12920	11	669	13420	11	980	13920	11	1284
12430	11	365 ∙ọ	12930	11	675	13430	11	986 <u>ଫ</u>	13930	11	1290 🖁
12440	11	371 9	12940	11	681	13440	11	991 🚡	13940	11	1296 .≥
12450	11	377	12950	11	687	13450	11	991 a 997 5 1003 5	13950	11	1296 <u>3</u> 1302 0
12460	11	383	12960	11	693	13460	11	1003 🖥	13960	11	1308 🥺
12470	11	389	12970	11	699	13470	11	1009 🕏	13970	11	1314
12480	11	396	12980	11	706	13480	11	1015 🙃	13980	11	1321
12490	11	402	12990	11	713	13490	11	1015 ^{'5} 1021 6	13990	11	1327
12500	11	408	13000	11	719	13500	11	1027	14000	11	1333
12600	11	470	13000		'''	13600	11	1027	17000	''	1333

TABLE 5-5. CALIBRATION OF TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-1 UNIT IS USED (Continued)

14,000 Kc to 16,000 Kc

Freq.	A	В	Freq.	A	В	Freq.	A	В	Freq.	A	В
13800	11	1211	14400	12	060	15000	12	366	15500	12	623
14000	11		14500	12	111	15010	12	371	15510	12	628
14010	11	1333 1339 () 1345 ()	14510	12	116	15020	12	376 😧	15520	12	633
14020	11	1345 - 	14520	12	121	15030	12	381 58 386 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	15530	12	638
14030	11	1351 ឌី	14530	12	126	15040	12	386 ⁸	15540	12	644
14040	11	1357 🖁	14540	12	131	15050	12	391 🖁	15550	12	649
14050	11	1363 ⋅ 🖁	14550	12	137	15060	12	397	15560	12	654
14060	11	1357 & 1363 1363 :sixib 1369 - F	14560	12	142	15070	12	402 😇	15570	12	659
14070	11	1376 0	14570	12	147	15080	12	407 6	15580	12	664
14080	11	1376 % 1382 %	14580	12	152	15090	12	412	15590	12	669
14090	11	1388	14590	12	157 <u>©</u>	15100		417	15600	12	674
		1394			107 8	15100	12	41/	15610	12	679
14100	11	1394	14600	12	162 b	45440	۱.,	400			
		4400	14610	12	168 ^{d.} 173 ^{lo} isi 178 ⁱ ii 183 P	15110	12	422	15620	12	684 😧
14110	11	1400	14620	12	173.0	15120	12	427	15630	12	009 5
14120	11	1406	14630	12	1/8:5	15130	12	432	15640	12	694
14130	11	1412	14640	12	183 10	15140	12	437	15650	12	699.5
14140	11	1418	14650	12	188 0	15150	12	443	15660	12	689 be 694 se 699 705 55 710 50
14150	11	1424	14660	12	193	15160	12	448	15670	12	710 5
14160	11	1430	14670	12	198	15170	12	453	15680	12	715 6
14170	11	1436	14680	12	203	15180	12	458	15690	12	721
14180	11	1442	14690	12	208	15190	12	463	15700	12	726
14190	11	1449	14700	12	213	15200	12	469	15710	12	731
14200	11	1455	14710	12	218	15210	12	474	15720	12	736
14210	11	1461	14720	12	223	15220	12	479 🙃	15730	12	741
14220	11		14730	12	228	15230	12	479 🔾	15740	12	746
14230	11	1474	14740	12	233	15240	12	489 홈	15750	12	752
14240	11	1468 () 1474 () 1480 ()	14750	12	238	15250	12	494 £ 499 <u>5</u> 505 5	15760	12	757
14250	11	1486 2	''''			15260	12	499 .5	15770	12	762
14260	11	1486 se 1492 <u>sixi</u> 1498 j	14760	12	243	15270	12	505 ≒	15780	12	767
14270	11	1498 ≛	14770	12	248	15280	12	به 510	15790	12	772
14280	11	1504 9	14780	12	253	15290	12	515 e	15800	12	777
14290	11	1510 9	14790	12	259	15300	12	520	,,,,,,		***
14300	11	1516	14800	12	264	15310	12	525	15810	12	782
14310	11	1523	14810	12	269	15320	12	530	15820	12	787
14320		1523	14820	12	274	15320	12	535	15830	12	792
	11		14830	12	279	15340	12	540	15840	12	797
14330	11	1535							15850	12	802
14340	11	1541	14840	12	284 290 ≩	15350	12	545	1	12	807
14350	11	1547	14850	12		15360	12	551 550	15860		
14360	11	1553	14860	12	295 5	15370	12	556	15870	12	813 (y 818 ^y 823 ^a
14370	11	1560	14870	12	300 2	15380	12	561	15880	12	818
14380	11	1566	14880	12	300 S 305 .isious 310 315	15390	12	567	15890	12	823 6
14390	11	1572	14890	12	310 🚡	15400	12	572	15900	12	828 E 833 : <u>s</u> 838 5
14400	11	1578	14900	12	212 40				15910	12	833 .5
			14910	12	320 ල්	15410	12	577	19520	12	838 %
14400	12	060	14920	12	325	15420	12	582	15930	12	844 19
14410	12	065	14930	12	330	15430	12	587 <u>ਦੇ</u>	15940	12	849 9
14420	12	070 076 ≆	14940	12	335	15440	12	592 b	15950	12	854
14430	12	276 ك≟	14950	12	340	15450	12		15960	12	859
14440	12	081 호	14960	12	345	15460	12	602	15970	12	864
14450	12	086 🗜	14970	12	351	15470	12	607 🕏	15980	12	869
14460	12	086 . 091 -	14980	12	356	15480	12	613 ^{TO}	15990	12	874
14470	12	096 5	14990	12	361	15490	12	618 6	16000	12	879
14480	12	101	15000	12	366	15500	12	623		_	1
14490	12	106	13000			15600	12	674			
		100	11		1			V-7			

SECTION V

AN 08-30 ART 13-3

TABLE 5-5. CALIBRATION OF TRANSMITTER T-47A/ART-13 OR T-47/ART-13 WHEN MCW-CFI 8Q-1 UNIT IS USED (Continued)

16,000 Kc to 18,100 Kc

Freq.	A	G	Freq.	A	G	Freq.	<u>A</u>	G	Freq.	A	G
16000	12	879	16500	12	1133	16800	12	1285	17550	12	1668
16010	12	884	16510	12	1138	17000	12	1386	17560	12	1673
16020	12	890 😧	16520	12	1143	17010	12	1391 🙃	17570	12	1678
16030	12	995 900 905 910 915 910 915 920 920 920	16530	12	1148	17020	12	1391 g 1396 <u>L</u>	17580	12	1683
16040	12	900 -	16540	12	1153	17030	12	1401	17590	12	1688
16050	12	905 8	16550	12	1158	17040	12	1406 2	17600	12	1694
16060	12	910 :	16560	12	1163	17050	12	1406 ह	17610	12	1699
16070	12	915 '5	16570	12	1168	17060	12	1416	17620	12	1704
16080	12	310 7	16580	12	1173	17070	12	1421 😽	17630	12	1709
16090	12	925	16590	12	1170	17080	12	1426 9	17640	12	
16100	12	930	16600	12	1179 1184 -			1420 =	17650	12	1715
10100	12	930			1104	17090	12				1720
40440	1.0	0.05	16610	12	1189 💆	17100	12	1436	17660	12	1725
16110	12	935	16620	12	1194 E 1199 -			1	17670	12	1731 1736
16120	12	940	16630	12	1199 -ធ្ន	17110	12	1441	17680	12	1736
16130	12	945	16640	12	1204 :-	17120	12	1446	17690	12	1742
16140	12	951	16650	12	1209 5	17130	12	1452	17700	12	1747
16150	12	956 🙃	16660	12	1214 😅	17140	12	1457	17710	12	1752
16160	12	961 - *	16670	12	1219	17150	12	1462	17720	12	1757
16170	12	956 (3) 961 - 3 966 (8)	16680	12	1224	17160	12	1467	17730	12	1763
16180	12	971 👱	16690	12	1229	17170	12	1472	17740	12	1768
16190	12	976 ⋅ੈੱ	16700	12	1234	17180	12	1477	17750	12	1773
16200	12	971 ± 976 :s 976 :s 981 :D	16710	12	1239	17190	12	1482	17760	12	1779
16210	12	986 יח	16720	12	1244	17200	12	1487	17770	12	1784
16220	12	986 vi	16730	12	1249	17210	12	1492	17780	12	1789
16230	12	996	16740	12	1254	17220	12	1498	17790	12	1795
	12		1)			II.			II.	1	
16240	1	1001	16750	12	1259	17230	12	1503	17800	12	1800
16250	12	1006	16760	12	1264	17240	12	1508	47040	1.0	1005
16260	12	1012	16770	12	1270	17250	12	1513	17810	12	1805
16270	12	1017	16780	12	1275	17260	12	1518	17820	12	1811
16280	12	1022	16790	12	1280	17270	12	1523	17830	12	1816
16290	12	1027	16800	12	1285	17280	12	1528 ਦੂ	17840	12	1821
16300	12	1032	16810	12	1290	17290	12	1533	17850	12	1827
16310	12	1037	16820	12	1295 🔓	17300	12	1538 😷	17860	12	1832
16320	12	1042	16830	12	1300 bg 1305 gg 1310 igg 1315 igg	17310	12	1544 -	17870	12	1837
16330	12	1047 1052 -	16840	12	1305 💂	17320	12	1549 g 1554 o	17880	12	1843
16340	12	1052 -	16850	12	1310 🤶	17330	12	1554 6	17890	12	1848
16350	12	1057	16860	12	1315 <u>:</u> ≧	17340	12	1559	17900	12	1854
16360	12	1062 ±	16870	12	1320 💂	17350	12	1564	17910	12	1860
16370	12	1067 : 1073 ÷	16880	12	1325 😅	17360	12	1569	17920	12	1865
16380	12	1073 ≧	16890	12	1330	17370	12	1574	17930	12	1871
16390	12	1078 יף	16900	12	1335	17380	12	1579	17940	12	1877
16400	12	1083 8	16910	12	1340	17390	12	1584	17950	12	1882
16410	12	1088	16920	12	1345	17400	12	1590	17960	12	1886
16420	12	1093	16930	12	1350	17410	12	1595	17970	12	188£ 1893
16430	12	1093	16940	12	1355	17410	12	1600	17970	12	1898
16440	12	1103	16950		1361	17420	12	1605	17990	12	1904
16450	12	1103	16960	12	1366	17430	12	1610	18000	12	1910
			II			11			NI .		
16460	12	1113	16970	12	1371	17450	12	1615	18010	12	1915
16470	12	1118	16980	12	1376	17460	12	1621	18020	12	1921
16480	12	1123	16990	12	1381	17470	12	1626	18030	12	1927
16490	12	1128	17000	12	1386	17480	12	1631	18040	12	1933
16500	12	1133				17490	12	1636	18050	12	1939
			1			17500	12	1641	i 8060	12	1944
	1			1	1		1		18070	12	1949
	1					17510	12	1647 তু	18080	12	1955
	1					17520	12	1653 😓	18090	12	1961
		1		[ĺ	17530	12	1658	18100	12	1966
		1		1		17540	12	1663 -	.5.00		
	1	1		1		17540	12	1668 🖰	\\		
	i	1	II.	1		17330	114	1 1000 (5)	11	1	1

TABLE 5-6

CALIBRATION OF OSCILLATOR 0-16/ART-13 WHEN MCW-CFI 8Q-1 UNIT IS USED

200 Kc to 1500 Kc

TABLE 5-6. CALIBRATION OF OSCILLATOR 0-16/ART-13 WHEN MCW-CFI 8Q-1 UNIT IS USED 200 Kc to 750 Kc

Freq.	A	F	G	Freq.	A	F	G	Freq.	A	F	G	Freq.	A	F	G
200	13	1	393	300	13	2	1114	400	13	3	1090	500	13	4	518 2 565 5
202	13	1	469	302	13	2	1153 তু	402	13	3	1120	505	13	4	دُ قِ 565 أ
204	13	1	540 😧	304	13	2	1192	404	13	3	1148	510	13	4	609 ÷
206	13	1	609 5	306	13	2		406	13	3	1177	515	13	4	654 S
208	13	1	0,0 1	308	13	2	1266 _ទ្ធី	408	13	3	1205				
210	13	1 [739 .	310	13	2	1302 🚆	410	13	3	1233 😧	520	13	4	697
212	13	1	801 😤	312	13	2	1338 😇	412	13	3	1260	525	13	4	739
214	13	1	861 😇	314	13	2	1373 👺	414	13	3		530	13	4	781 😨
216	13	1	919 සි	316	13	2	1407	416	13	3	1314 💆	533	13	4	909 -
218	13	1	976					418	13	3	1341 😤	535	13	4	821 &
220	13	1	1030	318	13	2	1442	420	13	3	1368 😇	540	13	4	862 ह 901 :
	ļ			320	13	2	1476	422	13	3	1394 🖺	545	13	4	901 :₹
222	13	1	1084	322	13	2	1508	424	13	3	1419	550	13	4	940 ਓ
224	13	1	1136	324	13	2	1542 😧	426	13	3	1445	555	13	4	978 🛎
226	13	1	1187	326	13	2	1574	428	13	3	1470	560	13	4	1016
228	13	1	1237 🖺	328	13	2	1000	430	13	3	1495	565	13	4	1053
230	13	1	1286 हू	330	13	2	1638 💆	432	13	3	1519				
232	13	1	1334 💂	332	13	2	1670 🕏					570	13	4	1090
234	13	1	1381 .ទ្ធ	333	13	1	1691 ^{'5}	434	13	3	1544	575	13	4	1127
236	13	1	1426 <u>≅</u>	334	13	2	1701 😤	436	13	3	1569	580	13	4	1163
238	13	1	1472 😁	336	13	2	1732	438	13	3	1593	585	13	4	1198 ਦੂ
240	13	1	1515 🖰	338	13	2	1763	440	13	3	1616	590	13	4	1234
242	13	1	1560	340	13	2	1793	442	13	3	1641	595	13	4	1270 💆
244	13	1	1603					444	13	3	1665	600	13	4	1304 ह
	'			342	13	2	1823 ក្ន	446	13	3	1688	605	13	4	1340 등
246	13	1	1646	344	13	2	1854 🗒	448	13	3	1710	610	13	4	1375 ਦਿੰ
248	13	1	1688 ਦੂ	346	13	2	1883	450	13	3	1734 😧	615	13	4	1408 ₺
250	13	1	1729	348	13	2	1912 ह	452	13	3	1757	620	13	4	1444
252	13	1	1770 &	350	13	2	1942 :	454	13	3	1780	625	13	4	1479
254	13	i	1810 ह	352	13	2	1971	456	13	3	1802 🖁	630	13	4	1512
256	13	1	1851 :	354	13	2	2000 🖹	458	13	3	1825				
258	13	1	1890 5	356	13	2	2028	460	13	3	1847	635	13	4	1548
260	13	1	1929 ଲ	300	,,,,	_	2020	462	13	3	1870 =	640	13	4	1584
262	13	i	1968	350	13	3	154	464	13	3	1892	645	13	4	1618 ত্র
202	13		1908	352	13	3	205	456	13	3	1912	650	13	4	1655
262	13	2	175	354	13	3		467	13	3	1921	655	13	4	1691
264	13	2	242	356	13	3	255 302 <u>3</u>	468	13	3	1936	660	13	4	
	13	2	305	358	13	3	347 g	470	13	3	1958	665	13	4	1728 5 1766 5
266 267	13	2	325 ♀	360	13	3	303 "	472	13	3	1980	667	13	4	1779
268	13	2		362	13	3	392 ± 434 .55 476 .55	474	13	3	2001	670	13	4	1804
			366 ह	II		3	476 5	476	13	3	2022	675	13	4	1845
270	13	2	423	364	13	3	4/0 · 6	476	13	3	2022	680	13	4	1886
272	13	2 2	480 .5	366 368	13	3	515 S	467	13	4	176		'	'	1000
274		2	533 <u>:₹</u> 585 m	370		3	593	468	13	4	191 😨	685	13	4	1928 🥫
276	13		635 8		13	_	1	470	13	4		690	13	4	1976
278	13	2		372	13	3	631			4	213	695	13	4	2023
280	13	2	684	374	13	3	668	472	13	4	250	035	'3	•	2025
282	13	2	731	276	4.2	١ ,	704	474	13	1	257 5	COE	13	_	156
		_		376	13	3	704	476	13	4	27.9 = 3 300 = 3	695		5	
284	13	2	778	378	13	3	739	478	13	4		700	13	5	195 231
286	13	2	823 🕃	380	13	3	774	480	13	4	321 E	705	13	5	231
288	13	2	868 911	382	13	3	808 😧	482	13	4	342	710	13	5	269 3
290	13	2	911	384	13	3	841 874	1		١.	200	715	13	6	303
292	13	2	953 5 995 × 1035	386	13	3	874 🚡	484	13	4	363 😧	720	13	5	338
294	13	2	995 <u>:</u> ₹	388	13	3	906 5 938 5 970	486	13	4	383	725	13	5	373 8 406 :3 427 :5
296	13	2	1035 0	390	13	3	938 😤	488	13	4	402 5	730	13	5	406 :
298	13	2	1075 🗟	392	13	3	970 😇	490	13	4	422 .5	733	13	5	427 -
300	13	2	1114	394	13	3	1000 😤	492	13	4	442 : \$	735	13	5	438 5
				396	13		1030	494	13	4	462 😇	740	13	5	471
	1			398	13		1061	496	13	4	481 🖹	745	13		502
	1	1	1	400	13		1090	498	13	4	499	750	13	5	533
	1														

AN 08-30 ART 13-3

TABLE 5-6. CALIBRATION OF OSCILLATOR 0-16/ART-13 WHEN MCW-CFI 8Q-1 UNIT IS USED (Continued)
750 Kc to 1500 Kc

				750	Kc to	150	O Kc			, <u>.</u>	
Freq.	A	F	G	Freq.	A	F	G	Freq.	A	F	G
750	13	5	533 ਦੂ	1000	13	5	1795 1822 ¥	1250	13	6	1016 1032 -
755	13	5	565 5 594	1005	13	5	1822 -	1255	13	6	
760	13	5	594	1010	13	5	1850 💆	1260	13	6	1050 🖁
765	13	5	624 ∺	1015	13	5	1878 🛎	1265	13	6	1067 = 1073 = 1084 = 1084 =
770	13	5	654 🗴	1020	13	5	1905 :≗	1267	13	6	1073 ⋅ੈਂ
				1025	13	5	1905 : 1935 ÷	1270	13	6	1084 ≟
775	13	5	683	1030	13	5	1966 ຕຸ	1275	13	6	1100 ຕຸ
780	13	5	711	1035	13	5	1998 💆	1280	13	6	1116 ಲೆ
785	13	5	739								
790	13	5	768 😧	1035	13	6	145 🕏	1285	13	6	1132
795	13	5	795	1040	13	6	171 💆	1290	13	6	1149
800	13	5	821 a.	1045	13	6	196	1295	13	6	1166
805	13	5	849 .≱	1050	13	6	196 . 219 .	1300	13	6	
810	13	5	876 m	1055	13	6	244 0:	1305	13	6	1182 g
815	13	5	901 5	.000]	244 🕏	1310	13	6	1214 🖁
820	13	5	927	1060	13	6	270 -	1315	13	6	1020 %
825	13	5	953	1065	13	6	270 g 293 g				1230 흥 1246 :ᆵ 1262 ^높
830	13	5		1065		6	293	1320	13	6	12 4 6 <u>3</u>
630	13	9	979		13	_	300 &	1325	13	6	1262 =
025	42	_	1,004	1070	13	6	315 <u>≥</u>	1330	13	6	1278 %
835	13	5	1004	1075	13	6	338 .	1335	13	6	1294 ¹²
840	13	5	1029	1080	13	6	363 ₹	1340	13	6	1309
845	13	5	1054 🖁			١_		1345	13	6	1325
850	13	5	1079	1085	13	6	385 407 🛂	1350	13	6	13 4 1
855	13	5	1103 👱 📗	1090	13	6		ll .	l	ŀ	
860	13	5	1127 .ច្ច	1095	13	6	428 💆	1355	13	6	1358
865	13	5	1103 m 1127 .00 1152 .20	1100	13	6	451	1360	13	6	1374
867	13	5	1160 🖁	1105	13	6	473 😇	1365	13	C	1389
870	13	5	1176 🕏	1110	13	6	493 <u>9</u>	1370	13	6	1404
875	13	5	1199	1115	13	6	514	1375	13	6	1419 🕃
880	13	5	1223					1380	13	6	1436 🖢
			l i	1120	13	6	534 😧	1385	13	6	1436 bg 1452 c 1468 0 1484 2
885	13	5	1247 😧	1125	13	6	556 ≿	1390	13	6	1468 5
890	13	5	1270	1130	13	6	556 5 576	1395	13	6	1484
895	13	5	1294	1133	13	6	589 ⇌	1400	13	6	1499 👼
900	13	5	1317 5	1135	13	6	596 ₹.	1405	13	6	1514 📆
905	13	5	1317 5 1341 5	'''	,	•	050 2.	1410	13	6	1530
910	13	5	1364	1140	13	6	615	1415	13	6	1547
915	13	5	1387 🕏	1145	13	6		1420	13	6	1563
3.5			1307 €	1150	13	6	635 656 - 3	1425	13	6	1580
920	13	5	1410	1155	13	6	675	II .	l		
925	13	5		1160	13	6		1430	13	6	1595
930		5	1433 g 1457		1		694 <u>≥</u> 712 [™]	1405		_ ا	4644
930 933	13 13	5	145/ 1473 &	1165	13	6	712 0	1435	13	6	1611
			1400 4	1170	13	6	731 🕏	1440	13	6	1627
935	13	5	1480 ਵ 1503 ਵ	1175	13	6	751	1445	13	6	1644 😧
940	13	5	1503			_		1450	13	6	1661
945	13	5	1526 -	1180	13	6	770	1455	13	6	1678
950	13	5	1550 🥞	1185	13	6	788	1460	13	6	1694 <u>5</u> 1710 <u>:</u>
955	13	5	1574	1190	13	6	806	1465	13	6	1710 😤
960	13	5	1597	1195	13	6	823 🗵	1467	13	6	1715 °
		ŀ	1	1200	13	6	842 ह	1470	13	6	1727 📆
965	13	5	1621 © 1645	1205	13	6	860 .	1475	13	6	1744
970	13	5	1645 🚆	1210	13	6	878 🕏	1480	13	6	1763
975	13	5	1670 💆	1215	13	6	895 19				
980	13	5	1694 🖺	1220	13	6	918 2	1485	13	6	1780 ਦੂ
985	13	5	1694 5	1225	13	6	930	1490	13	6	1797
990	13	5	1744 🕏	1230	13	6	948	1495	13	6	1813
995	13	5	1770 🗪	1200	'3	"	1	1500	13	6	
1000	13	5	1770 📆	1235	13	6	966	1300	1.3	"	1832 <u>.</u>
2000		"	2.55	11			966 983 m		1		N)
ļ		Į	1	1240	13	6		H		1	6
		I	1	1245	13	6	999 <u>.</u> ≩	II	1	I	
			•	1250	13	6	1016 🚄		(i	

TABLE 5-7

CALIBRATION OF APPROXIMATE DIAL SETTINGS FOR ALL RADIO TRANSMITTING SETS

TABLE 5-7. CALIBRATION OF APPROXIMATE DIAL SETTINGS FOR ALL RADIO TRANSMITTING SETS

20	Ft. A	ntenn	•	22.	Ft. A	ntenn	<u> </u>	3	O Ft.	Antenn	0	32.	5 Ft. A	ntenr	1a
Airp	lane an	d Ante	nna	Airpl	ane and	Anten	na	Air	plane (and Ant	enna	Airpl	ane and	Ante	nna
Ante KC	nnu La	ading	Unit Q	Anter KC	na Loa		nit O	An K	tenna l	oading P		Anter KC	ına Log	ding l	
210		,	1	208	1		1	20		1	Q 1	200	P 1		Q 1
250		5	2	250	2		2	25	-	2	3	250	2		3
300		3	2	300	3		2	30		3	4	300	3		4
400	1	4	3	400	4		3	40	0	4	4	400	5		1
500		5	1	500	5		1	50		5	1	500	5		2
600	1	5	2	600	5		2	60	0	5	2	600	5		2
	Trans				Transm	itter			Trav	smitter		l	Transmi	tter	
KC	C	D	E	KC	C	D	E	KC	C	D	E	KC	C	Ď	E
3000	1-2		70	2800	1-2		70	2500	1-2		20	2450	1-2		26
3500	2-3		115	3000	1-2		70	3000	3-4		70	3000	3		65
4000	3.4		130	3500	2-3		120	3500	4		95	3500	4-5		100
5000	4 5	70	150	4000	3 4		130	4000	4-5		120	4000	5		120
6000	5 6	45	170	5000	4-5	90	150	5000	56		145	5000	56		150
8000 10000	6-7 7	30 75	185 190	6000 8000	5-6 6-7	60	160	6000	6-7		165	6000	6–7	• • • •	168
11000	7	90	200	10000	6-7 7	40 80	185 200	8000 8500	7	95	180	8000	7	100	200
11300	7	100	200	10500	11	77	200	9000	7	100	200	9000	10	42	160
11500	11	85	200	11000	11	64	66	10000	10 10	48 50	130 170	10000	10 10	46 54	185 200
12000	1	75	30	12000	11	65	150	11000	10	55	200	12000	10	65	200
13000	11	75	140	13000	11	68	165	12000	10	63	200	13000	10	75	200
14000	11	80	164	14000	11	75	180	14000	10	82	200	14000	10	82	200
15000	11	85	170	15000	11	80	180	15000	10	92	200	14600	10	88	200
16000	12	75	190	16000	12	75	200	15600	10	98	200	16000	11	100	188
18000	12	85	200	17000	13	60	175	16000	11	90	200	16200	11	100	200
				18000	13	65	185	16600	11	98	200	16500	13	69	160
								17000	13	45	188	17000	13	70	170
				l				18000	13	70	188	18000	13	75	180

This Table for Use Without Shunt Capatitor

This Table for Use Without Shunt Capacitor

2	5 Ft. /	Antenr	10	27.5 Ft. Antenna					
Air	olane a	ınd Anı	ennu	Airp	iane an	d Anter	na		
			_						
	_	~-							
— Anto KC		ouding P	 Unit O	Ante KC	nna Lo				
207	_	1	1	204	-		Q		
250		2	2	250	1		1 2		
300		3	3	300			3		
400		4	4	400	2		4		
500		5	i	500	5		1		
600)	5	2	600	5		2		
	Tran	smitter		l	Trunsn	icear			
KC	C	Ď	E	KC	C	Ď	E		
2700	1 2		10	2600	1		0		
3000	2 3		60	3000	2		75		
3500	3 4		100	3500	3 4		110		
4000	4 5		125	4000	4 5		130		
5000	5-6		150	5000	6		150		
6000	6	80	160	6000	6-7		165		
8000	6 7	70	180	8000	7	70	190		
9800	7	100	200	9100	7	100	200		
10000	10	65	55	9500	10	57	80		
11000	1 0 10	65	150	10000	10	55	110		
12000 14000	10	70 85	170	11000	10	60	175		
15000	10	85 95	180	12000	10	65	185		
6000	11	95 95	190 200	14000	10 10	80 100	195		
7000	13	35	190	16500	11	95	195 200		
18000	13	55	195	17000	13	45	190		
	13	33	195	18000	13	40 60	190		
				1	1.3	•••	193		
				Į					

This Table for Use Without Shunt Capacitor

3	5 Ft.	Antenr	ıa	40 ft. Antenna						
Air	plane a	and Ant	enna	Airp	lane an	d Ante	nna			
Ant	enna L	oading.	Unit		nna Lo		nit			
K		P	Q	кс		•	Q			
200		1	1	200	1		2			
250		2	4	250	3		1			
300 400		3 5	4	300 400			1			
500		5	1 2	500			1			
500 600		5	3	600			3			
•		-	3	~~	-		•			
KC	Tran C	smitter D	E	KC	Transn C	itter D	E			
2400	1-2	.,	٠.	2300	1-2	D	- 3			
3000	3-4		70	2500	2-3		10			
3500	4-5		100	3000	3-4		60			
4000	5-6		120	3500	4-5		95			
5000	6-7		145	4000	5-6		120			
6000	7		160	5000	6-7		150			
7000	7		180	6000	7		170			
7600	7	100	200	6800	7	100	200			
8000	8	75	40	7000	8	60	50			
9000	6	85	62	6000	8	70	121			
10000	8	100	100	9000	8	83	111			
10400	8	100	126	10000	8	97	121			
11000	11	52	200	10500	8	100	140			
12000	11	62	200	11000	10	60	200			
14000	11	77	200	12000	10	70	200			
15000	11	86	200	14000	10	88	200			
15700	11	100	190	14500	10	100	200			
16000	13	66	152	15000	12	76	200			
17000	13	84	142	16000	12	84	200			
18000	13	100	154	17000 18000	12 12	100	141 146			

This Table for Use Without Shunt Capacitor

TABLE 5-7. CALIBRATION OF APPROXIMATE DIAL SETTINGS FOR ALL RADIO TRANSMITTING SETS (CONTINUED)

45	Ft. A	Antenn	a	50	Ft. An	tenno	_		Ft. A	ntenn	a	60	Ft. An	tenno	
Airp	lane a	nd Ante	nna	Airpl	ane and	i Anten	ina	Airpl	lane an	d Ante	nna	Airpl	ane and	i Anter	ına
								Ante	nna Lo	ading l	Unit	Anter	na Lou	iding L	nit
Ante KC		oading i		Anter KC	ına Log			KC		P -	Q	KC	P		Q
200		1	Q 3	200	2		Q 1	200		2	1	200	2		2
250		3	2	250	3		2	250 300		3 4	3 2	250 300	3		3 2
300		4	ī	300	4		2	300 400		5	1 .	400	5		1
400		5	1	400	5	ı	1	500		5	2	500	5		2
500		5	2	500	5	,	2	600		5	3	600	5		3
600		5	3	600	5	,	3	***	Transi	-	-		Transm		•
	Trans	mitter			Transm	itter		KC	C	Ď	E	KC	C	Ď	E
KC	C	D	E	KC	C	D	E	2000	1-2		0	2000	1-2		0
2200	1–2		0	2100	1-2		0	2500	3-4		15	2500	3-4		15
2500	2-3		20	2500	3-4		19	3000	4-5		45	3000	5-6		55
3000	4-5		62	3000	4-5		55	3500	5-6		100	3500	6-7		90
3500	5–6		90	3500	5-6		95	4000	6-7		130	4000	7		125
4000	6		120	4000	6–7		120	5000	7	100	168	4800	7	100	178
5000	7		155	5000	7		160	5170	7	100	181	5000	8	4	60
6000	7	100	175	5500	7	100	180	6000	8	35	126	6000	8	22	155
6100 7000	7	100	185	6000 7000	8	38	90	7000	8	51	152	7000	8	44	170
	8	59	106	8000	8	48	148	8000	8	64	160	8000	8	63	164
8000 9000	8 8	69 85	129 106	9000	8 8	65 85	152 148	9000	8	81	136	9000	8	80	150
9800	8	100	90	10000	8	92	142	9700 10000	8 9	100 68	106 195	9700 10000	8 9	100 74	120 186
10000	10	53	200	11000	11	53	200	11000	9	87	171	10880	9	100	123
11000	10	64	200	12000	11	72	200	11500	9	100	165	11000	10	78	181
12000	10	73	200	13000	11	82	200	12000	10	90	161	11350	10	89	101
13000	10	83	200	14000	11	100	0	12200	10	100	82	12000	11	75	190
13740	10	100	182	15000	11	98	135	13000	12	62	133	13000	12	49	197
14000	12	70	200	16000	13	69	136	14000	12	63	183	15000	12	71	200
15000	12	82	92	17000	13	71	164	15000	12	68	200	17000	12	85	200
16000	12	85	125	18000	13	68	184	16000	13	45	169	18000	12	94	200
17000	12	87	164	l				17000	13	62	177				
18000	12	86	195					18000	13	72	185	l			

This Table for Use Without Shunt Capacitor

This Table for Use Without Shunt Capacitor

2	O Ft. A	ntenn	a	22.5 Ft. Antenna					
Air;	plane a	nd Ante	nna	Airpl	ane an	d Anten	na		
Тгал		with T	hree	Trans	mitter s	with Th			
Section	s of Shi	unt Cat	acitor	Sections	of Shu	nt Cap	acitor		
KC	C	D	E	KC	С	D T	E		
2100	1		0	2100	1		0		
2500	3-4	• · · ·	0	2500	2-3		20		
3000 3500	4~5 5~6		30	3000	4-5		45		
4000	55 6		52 65	3500 4000	5–6 6		62 80		
5000	6-7	• • •	102	5000	6–7				
6000	6-7 7	50	118	6000	6–7 7	48	108		
8000	7	72	146	7000	7	40 65	132		
10000	7	90	168	8000	7	76	149		
10500	7	100	174	10000	7	94	184		
11000	10	94	200	10400	7	100	200		
11300	10	100	200	10450	10	73	- 0		
11600	11	75	0	11000	10	76	75		
12000	11	75	80	12000	10	82	160		
13000	11	80	142	13000	10	88	178		
14000	11	86	180	14000	10	96	195		
15000	11	92	200	14100	10	100	200		
16000	13	66	185	14500	13	0	175		
17000	13	84	190	15000	13	30	200		
17700	13	100	200	16000	13	67	200		
				17000	13	85	200		
				17600	13	100	200		

			Capacitor

-	S Ft. A	ntenn	0	27.5 Ft. Antenna						
Airj	olane as	nd Anse	nna	Airpl	ane an	d Anten	na			
Tran	smitter	with T	hree	Trans	mitter	with Ti	ıree			
				Sections	of Shu	nt Cap	acito			
KC	C	D	E	KC	C	D	E			
2160 2500	1-2 2-3		0	2130	1-2		(
3000	2-3 4-5	• • •	28 50	2500 3000	2-3		20			
3500	4-3 5-6	• • • •	50 65	3500	4-5		44			
4000	56 6-7		80	4000	5⊶6 6		6: 8:			
5000	6-7		106	5000	6-7		116			
6000	0-7 7	44	125	6000	7	52	138			
7000	7	64	140	7000	7	52 65	154			
9000	7	80	184	8000	7	75	174			
9500	7	90	200	8800	7	75 86	200			
10000	10	66	92	9000	10	59	40			
11000	10	68	166	10000	10	62	156			
12000	10	74	184	11000	10	63	191			
13000	10	82	192	12000	10	75	200			
14000	10	90	200	13000	10	84	200			
14500	10	100	200	14000	10	92	200			
15000	13	0	181	14400	10	100	200			
16000	13	51	200	15000	11	94	200			
17000	13	73	200		11	100	200			
18000	13	89	200			56	200			
				₹7000	13	76	200			
			'	18000	13	90	200			
17000 18000						56 76				

This Table for Use With Shunt Capacitor

TABLE 5-7. CALIBRATION OF APPROXIMATE DIAL SETTINGS FOR ALL RADIO TRANSMITTING SETS (CONTINUED)

mitter with Three of Shunt Capacitor C D E Sections of Shunt Capacitor KC D E Sections of Shunt Capacitor KC D E Sections of Shunt Capacitor KC D E Sections of Shunt Capacitor KC D E Sections of Shunt Capacitor KC D E Sections of Shunt Capacitor KC D E Sections of Shunt Capacitor KC D E Sections of Shunt Capacitor KC C D E Sections of Shunt C
of Shunt Capacitor Sections of Shunt Capacitor C D E KC C D E E 1 0 2000 1-2 0 2000 1-2 2-3 30 2500 3-4 10 2500 3-4 3000 4-5 44 3000 4-5 7 5-6 64 3500 5-6 70 3500 5-6 11 6 80 4000 6 7 90 4000 6 13 6-7 121 5000 7 124 5000 7 43 18 7 5-7 54 138 6000 7 55 144 5500 7 54 18
of Shunt Capacitor Sections of Shunt Capacitor C D E KC C D E E 1 0 2000 1-2 0 2000 1-2 2-3 30 2500 3-4 10 2500 3-4 3000 4-5 44 3000 4-5 7 5-6 64 3500 5-6 70 3500 5-6 11 6 80 4000 6 7 90 4000 6 13 6-7 121 5000 7 124 5000 7 43 18 7 5-7 54 138 6000 7 55 144 5500 7 54 18
1 0 2100 1-2 0 2050 1-2 2 2-3 30 2500 3-4 10 2500 3-4 3 4-5 48 3000 4-5 44 3000 4-5 7 5-6 6 80 4000 6-7 90 3500 5-6 11 6-7 121 5000 7 124 5000 7 43 18 7 54 138 6000 7 55 144 5500 7 54 18
2-3 30 2500 3-4 10 2500 3-4 3 4-5 48 3000 4-5 44 3000 4-5 7 5-6 64 3500 5-6 70 3500 5-6 11 6 80 4000 6-7 90 4000 6 13 6-7 121 5000 7 124 5000 7 43 18 7 54 138 6000 7 55 144 5500 7 54 18
4-5 48 3000 4-5 44 3000 4-5
5-6 64 3500 5-6 70 3500 5-6 11 6 .80 4000 6-7 90 4000 6 13 6-7 .121 .5000 124 5000 43 18 7 .54 138 6000
6 . 80 4000 6-7 . 90 4000 6 . 13 6-7 . 121 5000 7 . 124 5000 7 43 18 7 54 138 6000 7 55 144 5500 7 54 18
6-7 121 5000 7 124 5000 7 43 18 7 54 138 6000 7 55 144 5500 7 54 18
7 54 138 6000 7 55 144 5500 7 54 18
7 81 186 7790 7 90 200 6000 9 30 4
7 100 200 8000 9 64 60 7000 9 42 13
10 50 88 9000 9 69 112 8000 9 55 15
10 52 138 10000 9 74 169 9000 9 67 16
10 55 165 11000 9 81 179 10000 9 74 17
10 66 200 2000 9 90 179 11000 9 83 17
10 76 200 12500 9 100 180 12000 9 100 15
100 0
1000 (11 00 20
11 93 200 15300 11 100 200
13 41 200 16000 13 60 200 16000 12 85 14
10 66 200 12000 9 90 179 11000 9 83 10 76 200 12500 9 100 180 12000 9 100 10 85 200 13000 10 86 200 12200 9 100

			40 ft. Antenna						
une an	d Ante	nna	Airpl	ane and	Anten	na			
		_							
		_							
-	υ	_		-	D	E			
		- 1				0			
						25			
_						66			
						100			
						120			
						144			
						179			
						200			
				-		94			
_		-				148			
						162			
				-		174			
-				-		177			
_						178			
-						179			
-						200			
						180			
						192			
_						200			
-						200			
13	90	130				150			
13	100	146				108			
			18000	12	100	157			
			ľ						
			l						
			I						
	1 2-3 4-5 5-6 7 7 7 7 9 9 9 9 10 10 13 13	of Shunt Cafe D 1 2-3 3 4-5-6 6 7 7 32 7 56 7 75 9 58 9 60 9 67 9 72 9 80 9 88 9 100 10 90 10 100 13 0 13 70 13 90	C D E 1 0 2 3 22 4 5 6 60 5 6 7 110 7 32 128 7 56 156 7 75 184 7 95 200 9 58 49 9 60 112 9 67 142 9 72 160 9 88 178 9 100 181 10 90 200 10 100 200 13 0 178 13 70 156 13 90 130	of Shunt Capacitor D Sections Capacitor D Sections Comment 1 0 2100 2·3 22 2500 4·5 60 3000 5·6 85 3500 6·7 110 4000 7 32 128 5000 7 75 184 6500 7000 9 58 49 8000 900 900 900 9 60 112 9000 900 900 900 11000 900 900 900 11000 900 11000 900 1100 13000 14000 1000 100 100 14000 14190 13 16000 13 15000 13 16000 13 16000	of Shunt Capacitors Sectims of Shut C C 1 0 2100 1-2 2.3 22 2500 3-4 5-6 5-6 85 3500 5-6 67 110 4000 6-7 7 32 128 5000 7 7 56 156 6000 7 7 75 184 6500 7 7 95 200 9 9 9 8 49 8000 9 9 9 67 142 10000 9 9 9 72 160 11000 9 9 9 72 160 11000 9 9 9 8 178 12600 9 9 9 8 178 12600 9 9 9 8 178 12600 9 9 9 100 10 10 10 10 10 10 10 10 10 10 10 10 10 10	of Shunt Capacitor Sections of Shunt Capacitor D			

200 Foot Trailing Antenna Any Type of Airplane

	Antenna Loading Unit	
KC	P	Q
200	3	3
250	4	2
300	5	1
400	5	2
500	5	3
600	5	3

There are no approximate settings for use with trailing antenna in high frequency range.

This Table for Use With Shunt Capacitor

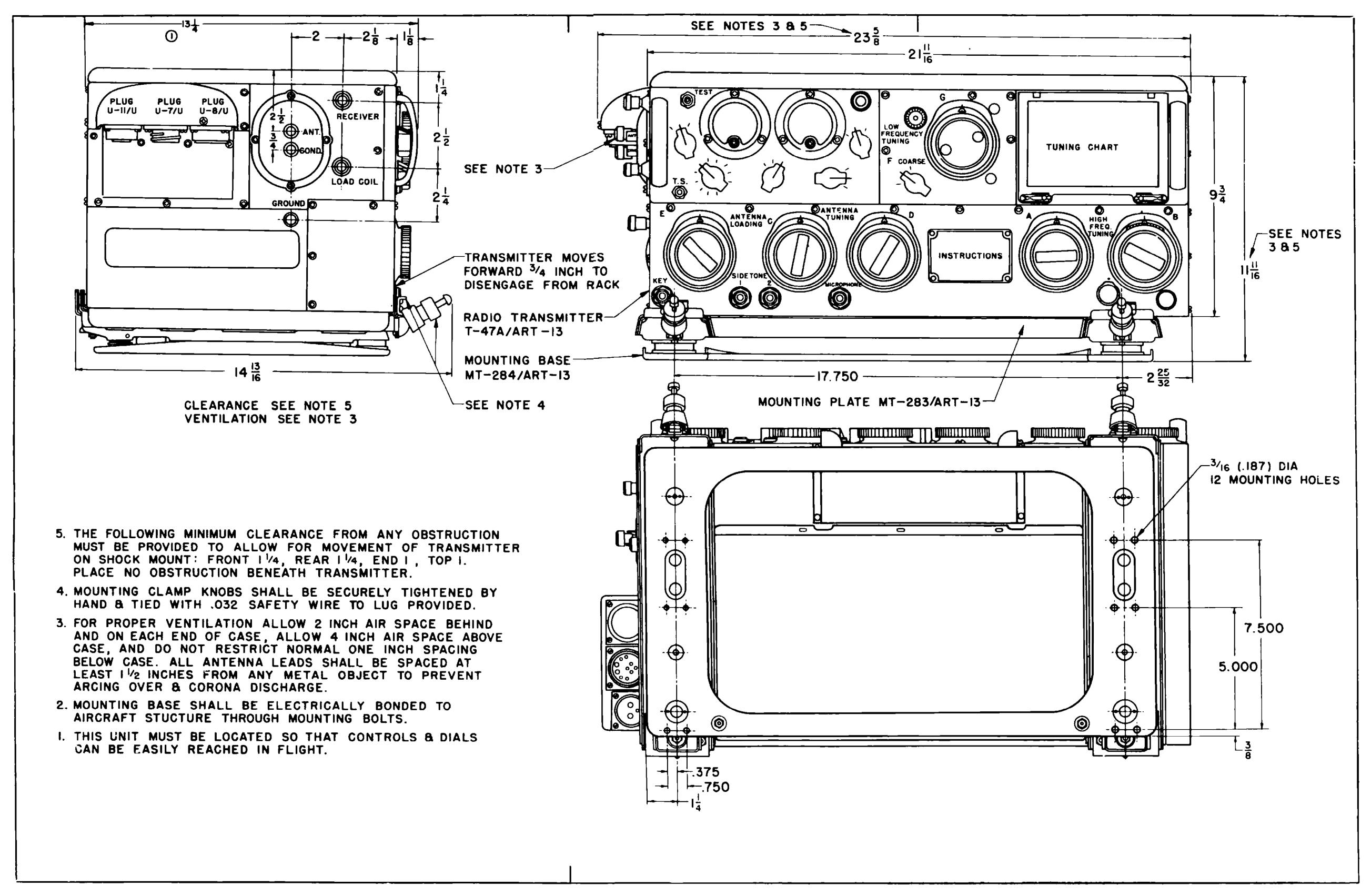


Figure 5-1—Rudia Transmitter T-47A/ART-13—Outline Dimensions

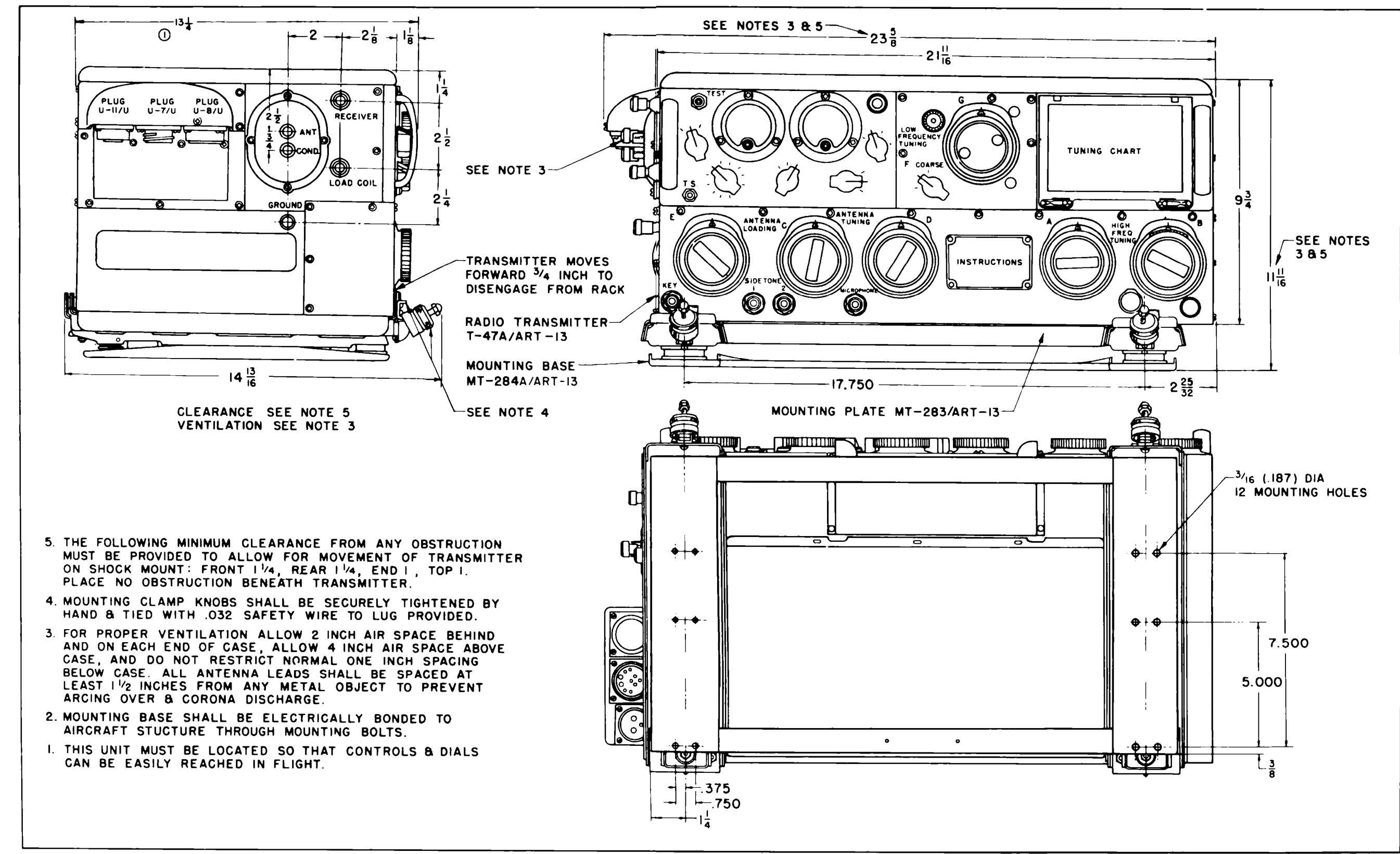
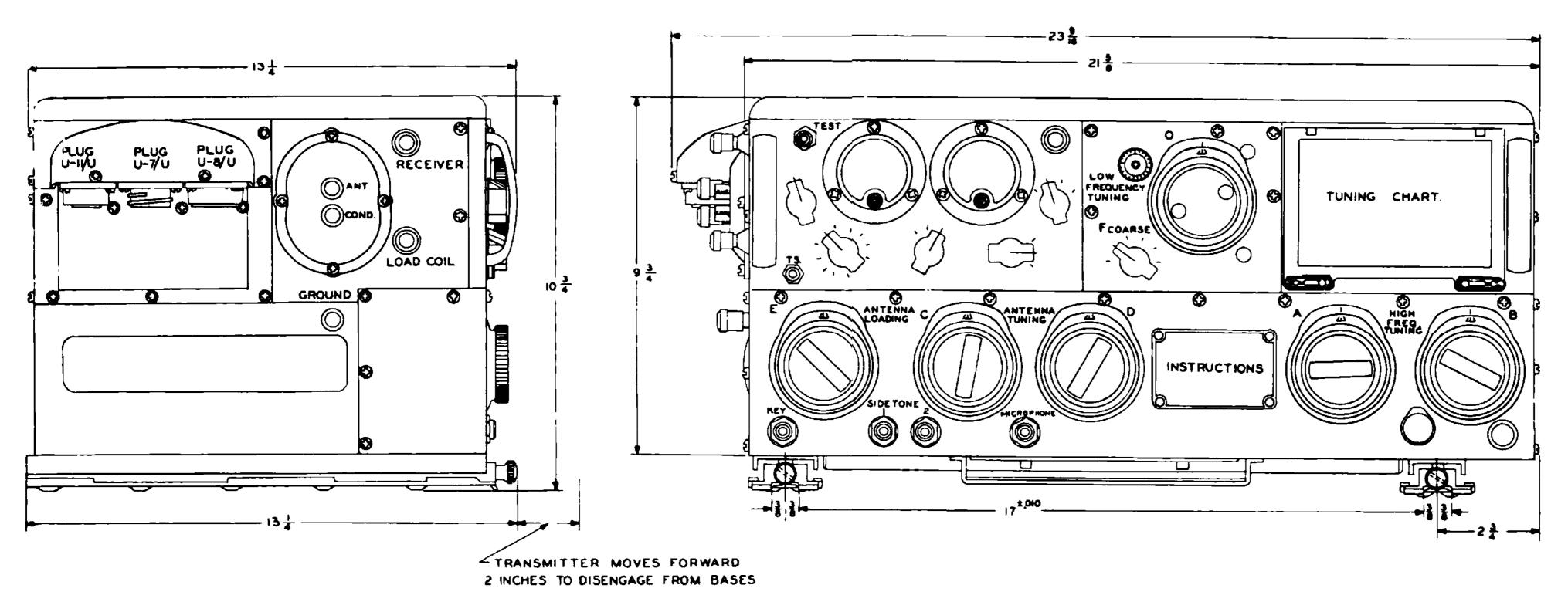
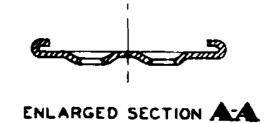


Figure 5-1A—Radio Transmitter T-47A/ART-13 and Mounting Base MT-284A/ART-13—Outline Dimensions



- I-THIS UNIT MUST BE LOCATED SO THAT CONTROLS AND DIALS CAN BE EASILY REACHED AND READ IN FLIGHT.
- 2-TRACKS SHALL BE ELECTRICALLY BONDED TO AIRCRAFT STRUCTURE THROUGH MOUNTING FEET AND BOLTS.
- 3-FOR PROPER VENTILATION, ALLOW 2 INCH AIR SPACE BEHIND AND ON EACH END OF CASE, ALLOW 5 INCH AIR SPACE ABOVE CASE, AND DO NOT RESTRICT NORMAL I INCH SPACING BELOW CASE.
- 4-MOUNTING CLAMP KNOBS SHALL BE SECURELY TIGHTENED BY HAND AND TIED TO BASE WITH .032 DIAMETER SAFETY WIRE.

WEIGHT 70 LBS. MAX.



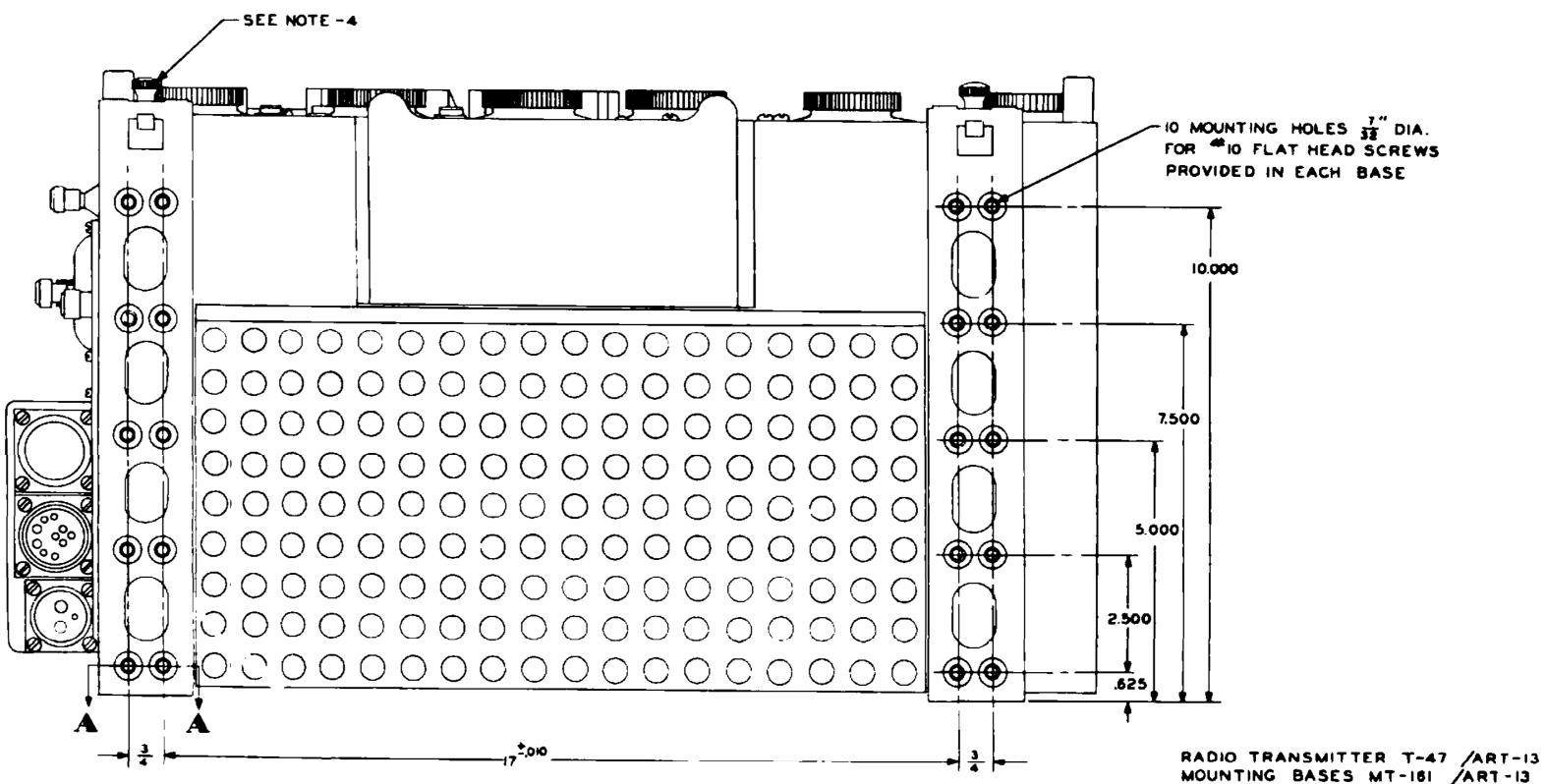


Figure 5-2—Radio Transmitter T-47/ART-13 (Navy Type 52286)—Outline Dimensions

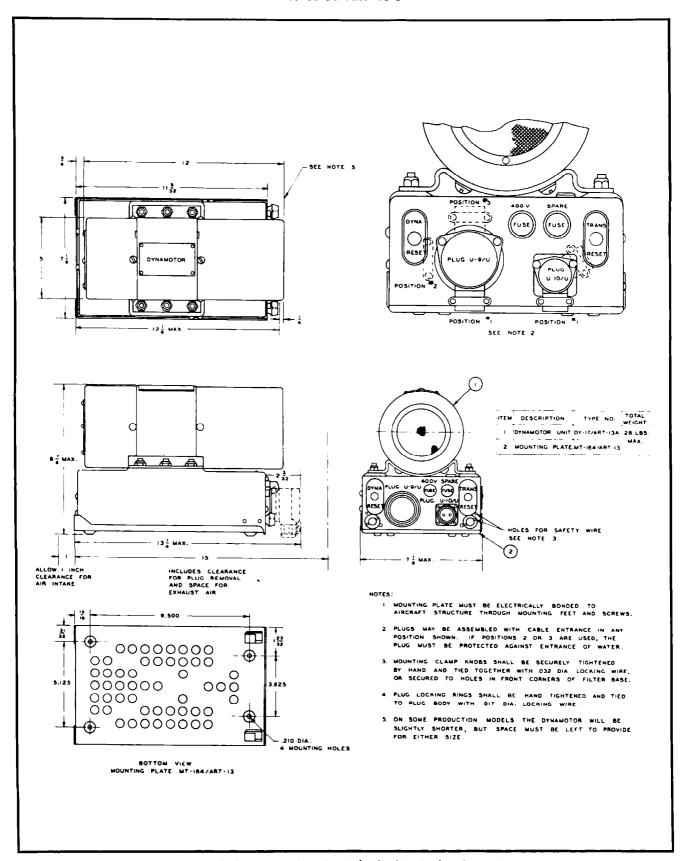


Figure 5-3—Dynamotor Unit DY-17/ART-13A—Outline Dimensions

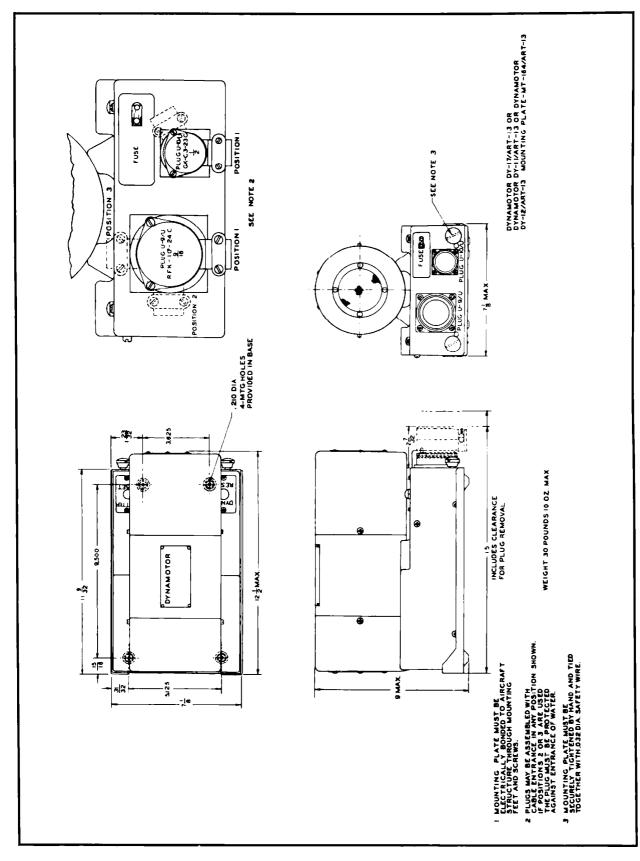
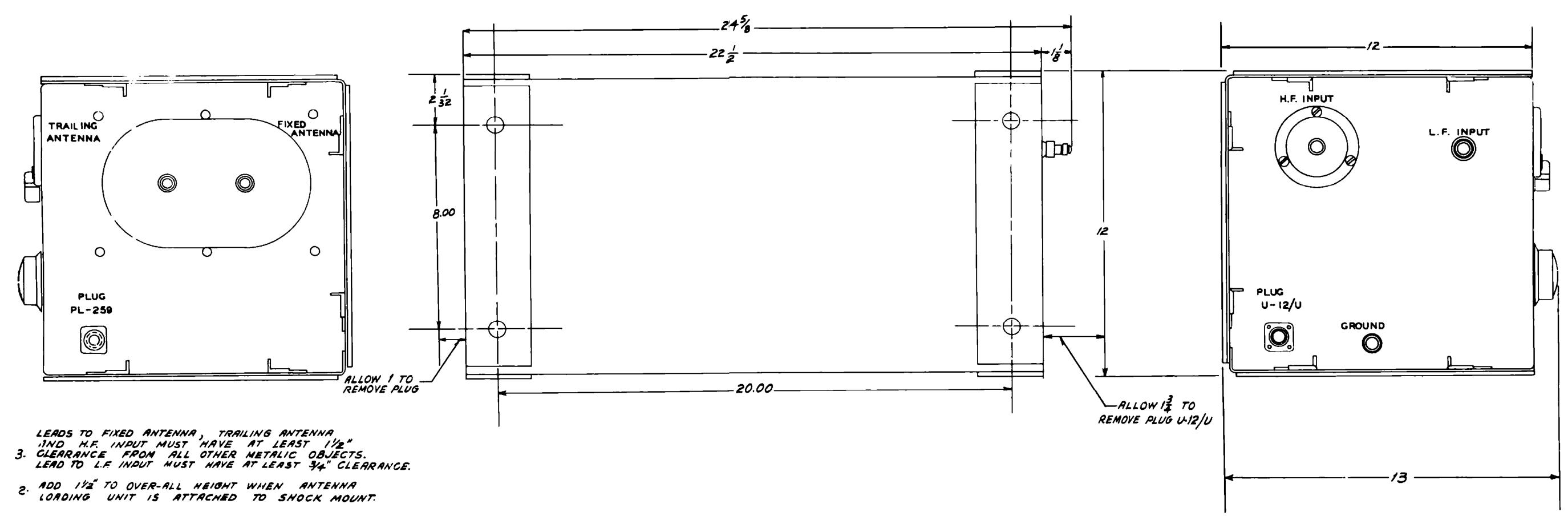
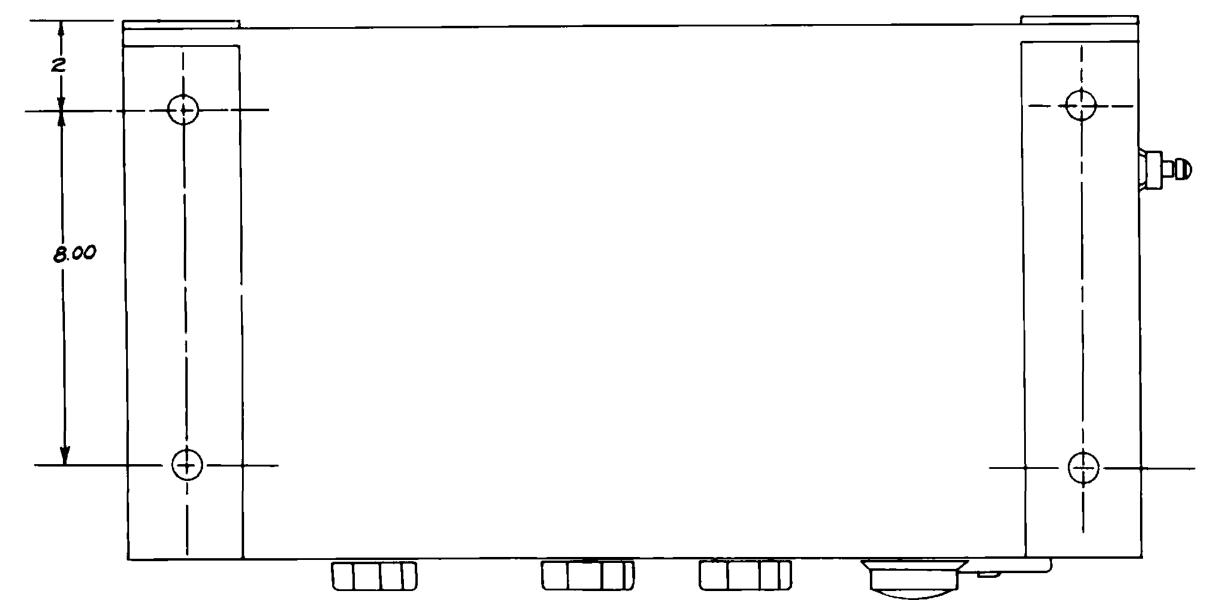


Figure 5-4—Dynamotor Unit DY-11/ART-13 (Navy Type -23333 Power Unit, with Dynamotor -21931) or Dynamotor Unit DY-12/ART-13 (Navy Type -23333 Power Unit with Dynamotor -21932)



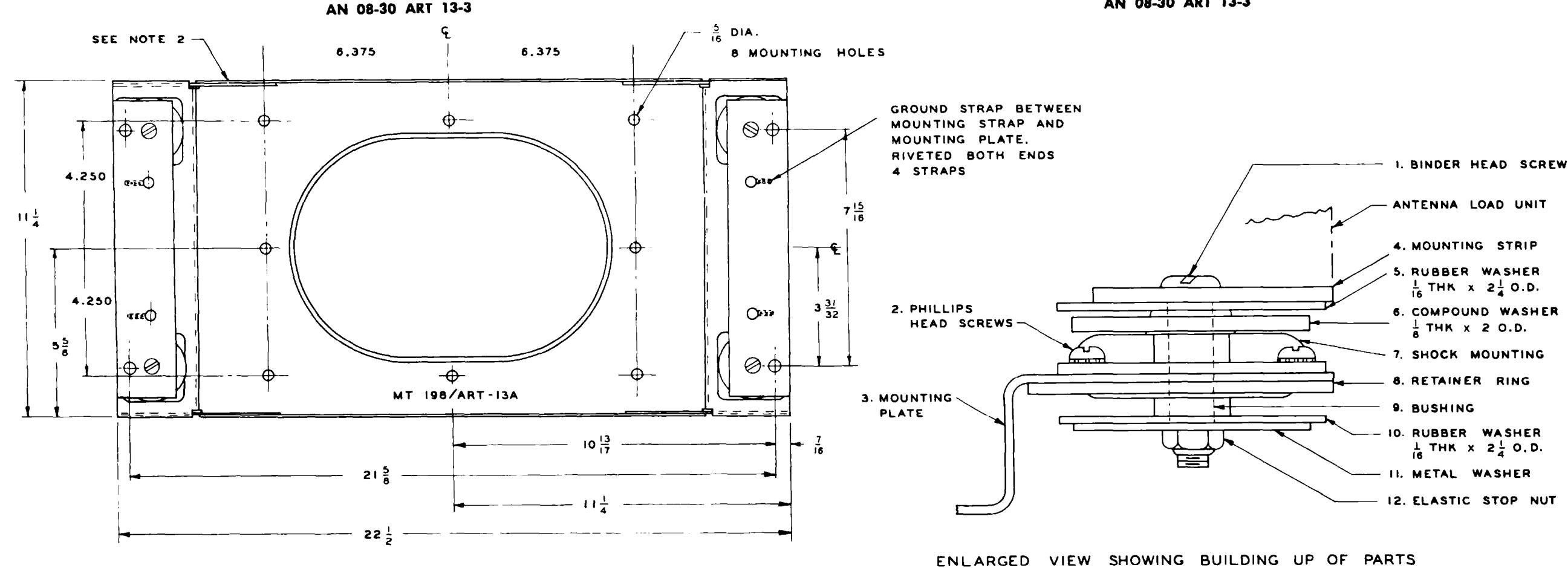
GOVERNMENT FURNISHED SHOCK MOUNTING MUST BE INSTALLED IN A HORIZONTAL PLANE, HOWEVER IT MAY BE INVERTED WITH THE ANTENNA LOADING UNIT I. SUSPENDED FROM IT. ANTENNA LOADING UNIT MAY BE ATTACHED TO MOUNTING ON ANY ONE OF ITS THREE SIDES PNO IS DESIGNED FOR OPERATION

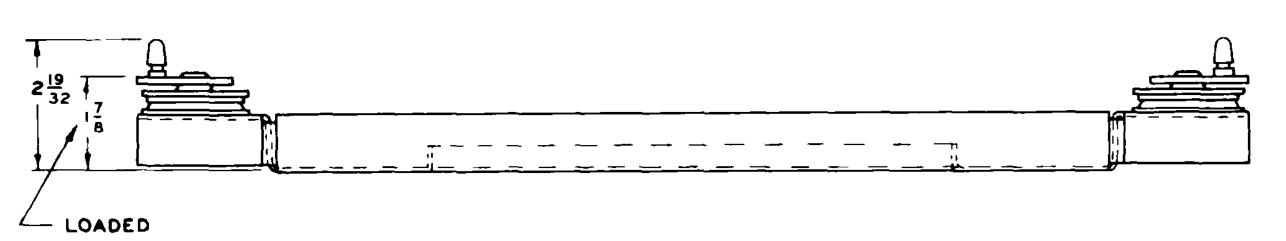
IN ANY POSITION.



WEIGHT 25..12 LBS

Figure 5-5—Antenna Loading Unit CU-32/ART-13A—Outline Dimensions (for Mounting Base MT-198/ART-13A see fig. 5-6)



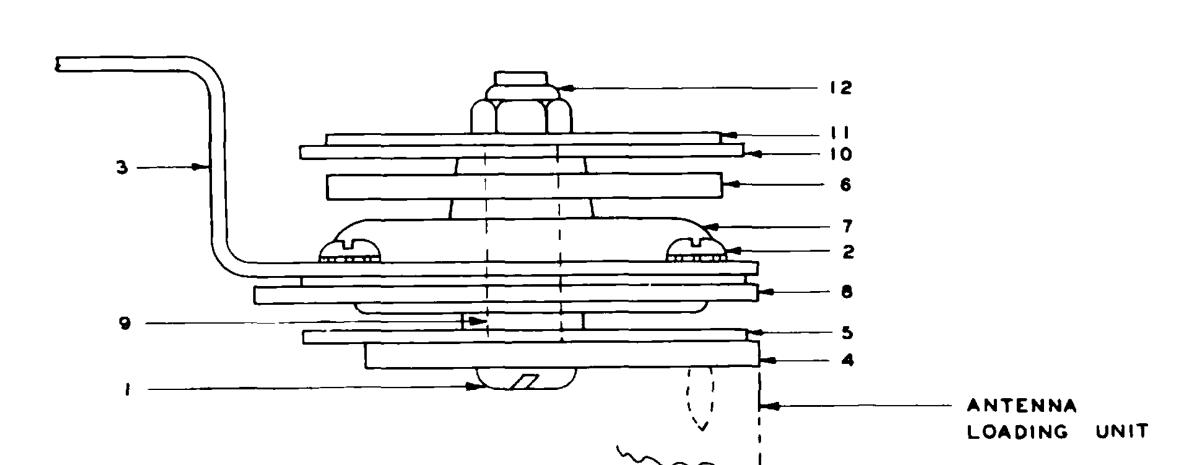


MOUNTING SHOWN IN LOADED POSITION BOTTOM MOUNTING (SEE NOTE 1)

NOTES:

- I MOUNTING PLATE WILL BE SUPPLIED ASSEMBLIED FOR BOTTOM MOUNTING. FOR OVERHEAD MOUNTING, SHOCK MOUNTS MUST BE ASSEMBLED ACCORDING TO ENLARGED SKETCH.
- 2. MOUNTING PLATE MUST ELECTRICALLY BONDED TO AIRCRAFT STRUCTURE.

WEIGHT 3.2 LBS.



VIEW SHOWING BUILDING UP OF PARTS ENLARGED FOR OVERHEAD MOUNTING NOTE NUMBERS REFER TO VIEW ABOVE

Figure 5-6—Mounting Base MT-198/ART-13A—Outline Dimensions (for Antenna Loading Unit CU-32/ART-13A)

FOR BOTTOM MOUNTING

SCALE (APPROX.) 2:1

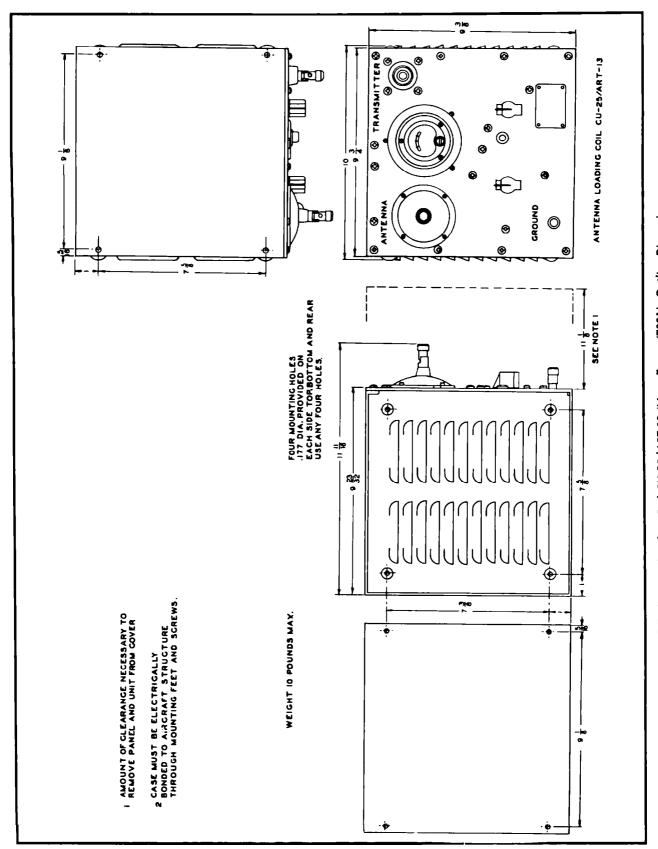


Figure 5-7--Antenna Loading Coil CU-25/ART-13 (Navy Type -47281)--Outline Dimensions

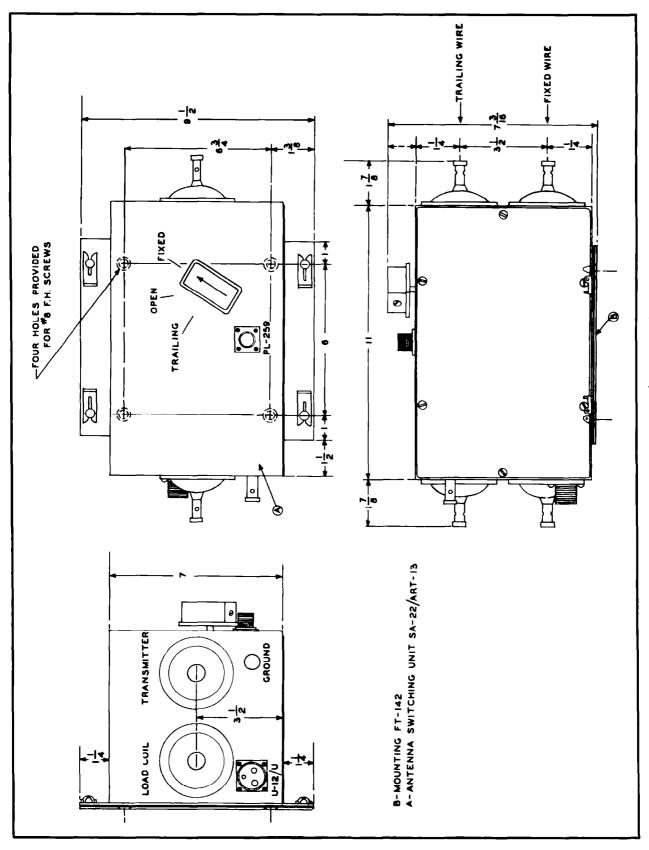


Figure 5-8—Antenna Switching Unit SA-22/ART-13—Outline Dimensions

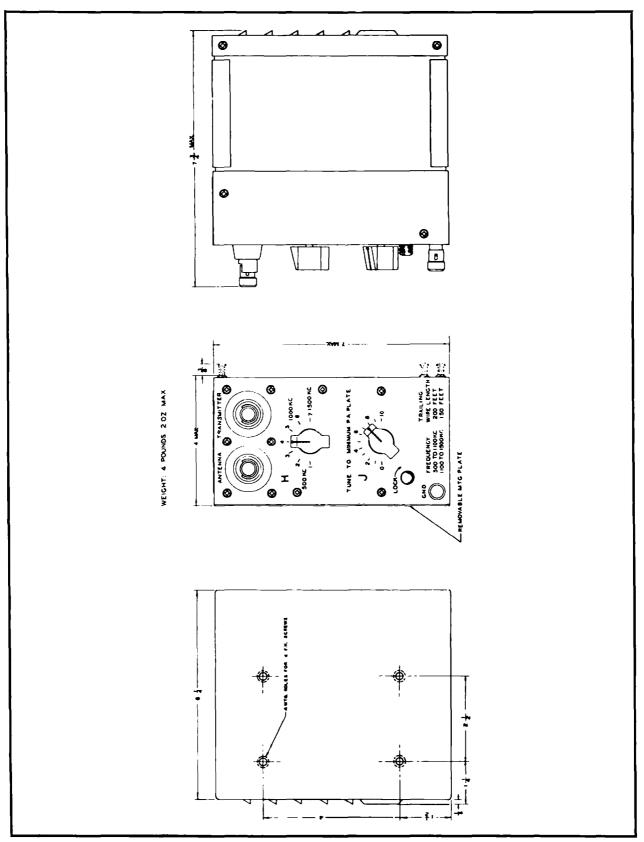


Figure 5-9—Antenna Loading Coil CU-26/ART-13 with Mounting Plate MT-162/ART-13 (Navy Type -47282)—Outline Dimensions

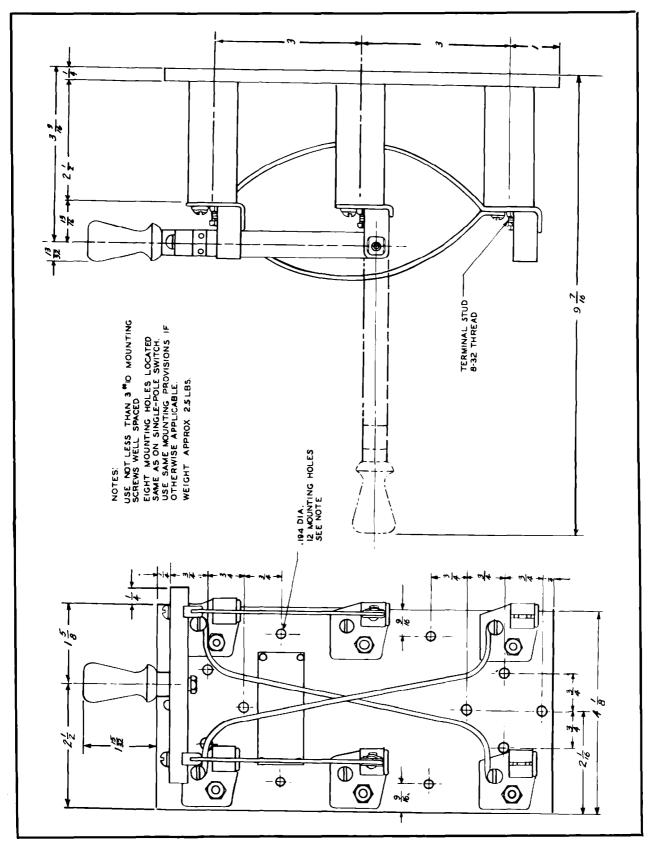


Figure 5-10—Switch SA-13/U—Outline Dimensions

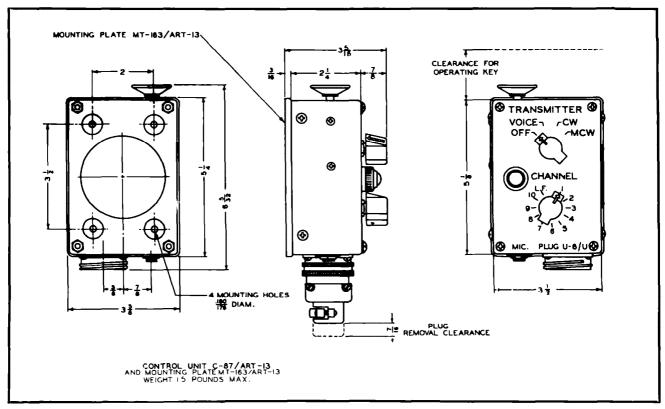


Figure 5-11—Control Unit C-87/ART-13 (Navy Type -23330)—Outline Dimensions

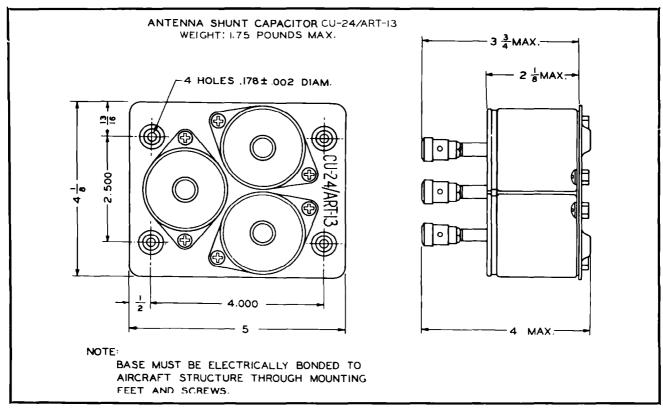


Figure 5-12—Antenna Shunt Capacitor CU-24/ART-13 (Navy Type -481628)—Outline Dimensions

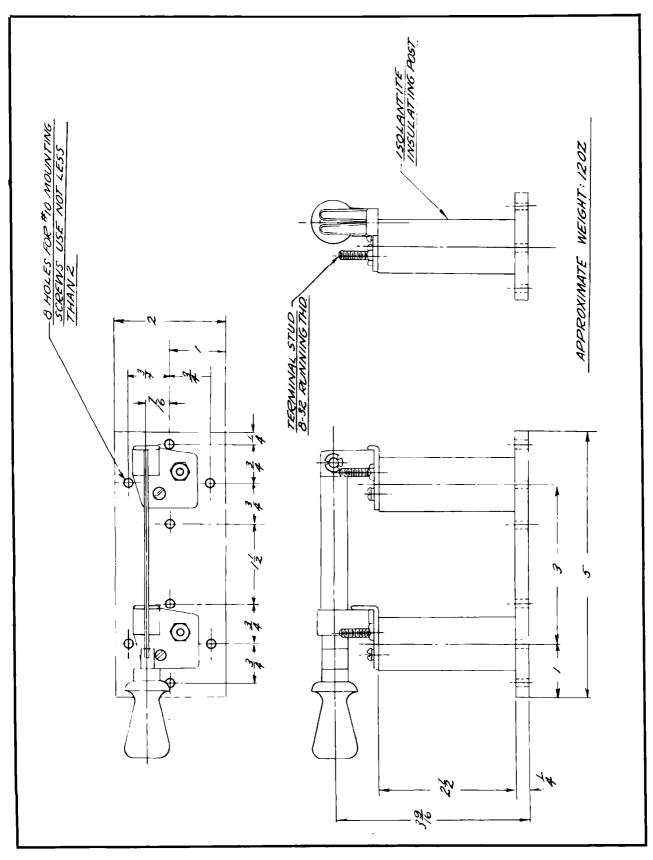
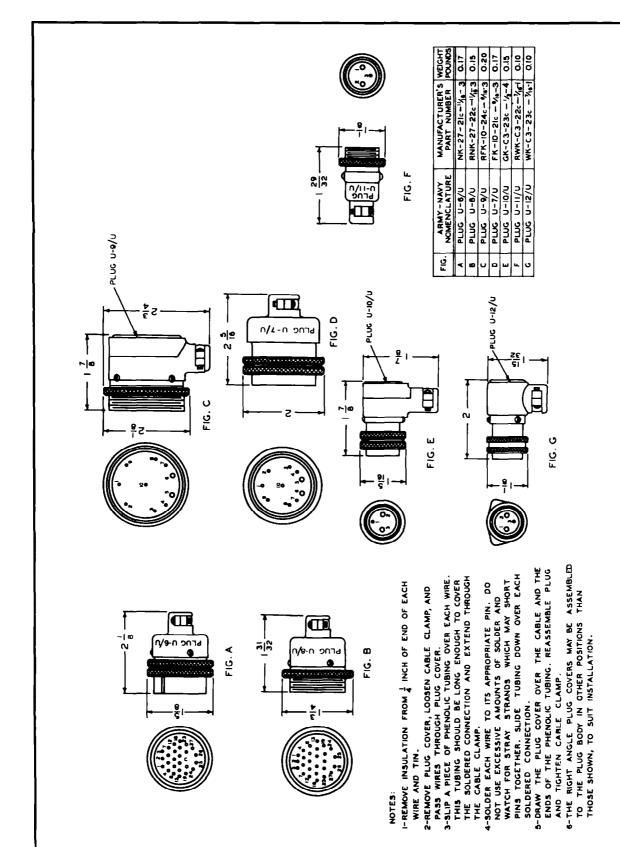


Figure 5-13—Switch SA-46/ART-13A—Outline Dimensions



AN 08-30 ART 13-3

Ref.	Wire No.	Maximum Operating Voltage	Maximum Allowable Resistance in Ohms (71° C.)	Minimum Cable Size Permitted	Ref.	Wire, No.	Maximum Operating Voltage	Maximum Allowable Resistance in Ohms (71° C.)	Minimum Cable Size Permitted
6	1000	1150	1	16	4	1041	5000	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10
* 	1001	30	1	20	4	1042	3750		10
	1002	30	1	20	4	1043	5000		10
-	1003	30	1	20	4	1044	5000	1	10
	1004	30	1	20	4	1045	7500	•	10
	1005	30	1	20	-	1046	60		14
	1006	30	1	20	5	1047	0	.001	14
	1007	30	1	20	<u> </u>	h			
	1008	30	1	20	5	1049	0	.001	14
	1009	30	1	20	5	1050	0	.001	14
	1010	30	1	20		1051	100	1	20
	1011	30	1	20		1052	220	1	20
	1012	30	1	20	1	1053	30	.02	16
	1013	30	1	20		1054	30	Jumper	16
	1014	30	1	20	!	1055	0	<u> </u>	18
	1015	30	0.8	20		1056	220	1	20
	1016	30	1	20	5	1057	0	.001	16
	1017	30	1	20		1058	0	Jumper	16
	1018	30	0.25	20	1	1059	30	0.25	18
	1019	0	0.25	18		1060	30	.0125	8
	1020	30	0.25	20	5	1061	0	.001	8
	1021	30	1	20		1062	30	0.25	18
	1022	30	0.8	20	Î	1063	0	0.25	18
	1023	220	1	20	1	1064	30	0.25	18
	1024	220	1	20	1	1	<u> </u>		
	1				1	1071	30	0.1	18
	1026	100	1	20	5	1072	0	0.1	16
	1027	100	1	20	1	1073	30	0.1	18
	1028		0.25	20		1074	30	0.1	18
	1029	0	0.25	18		1075	30	.3	20
	1030	30	0.25	20		1076	30	0.1	18
	1031	400	1	20	\mathbb{I}_{-}	1077	30	0.1	18
	1032	400	1	20_		1078	30	0.1	18
	1033	30	0.8	20					<u>_</u>
	1034		0.05	18					
	1035	0	0.025	14		690		1	20+
	1036	30	0.05	14		691		0.25	20
	1037	30	1	20		692	30	0.25	20
	1038	30	0.8	20					
	1039	400	1	20	1		I		

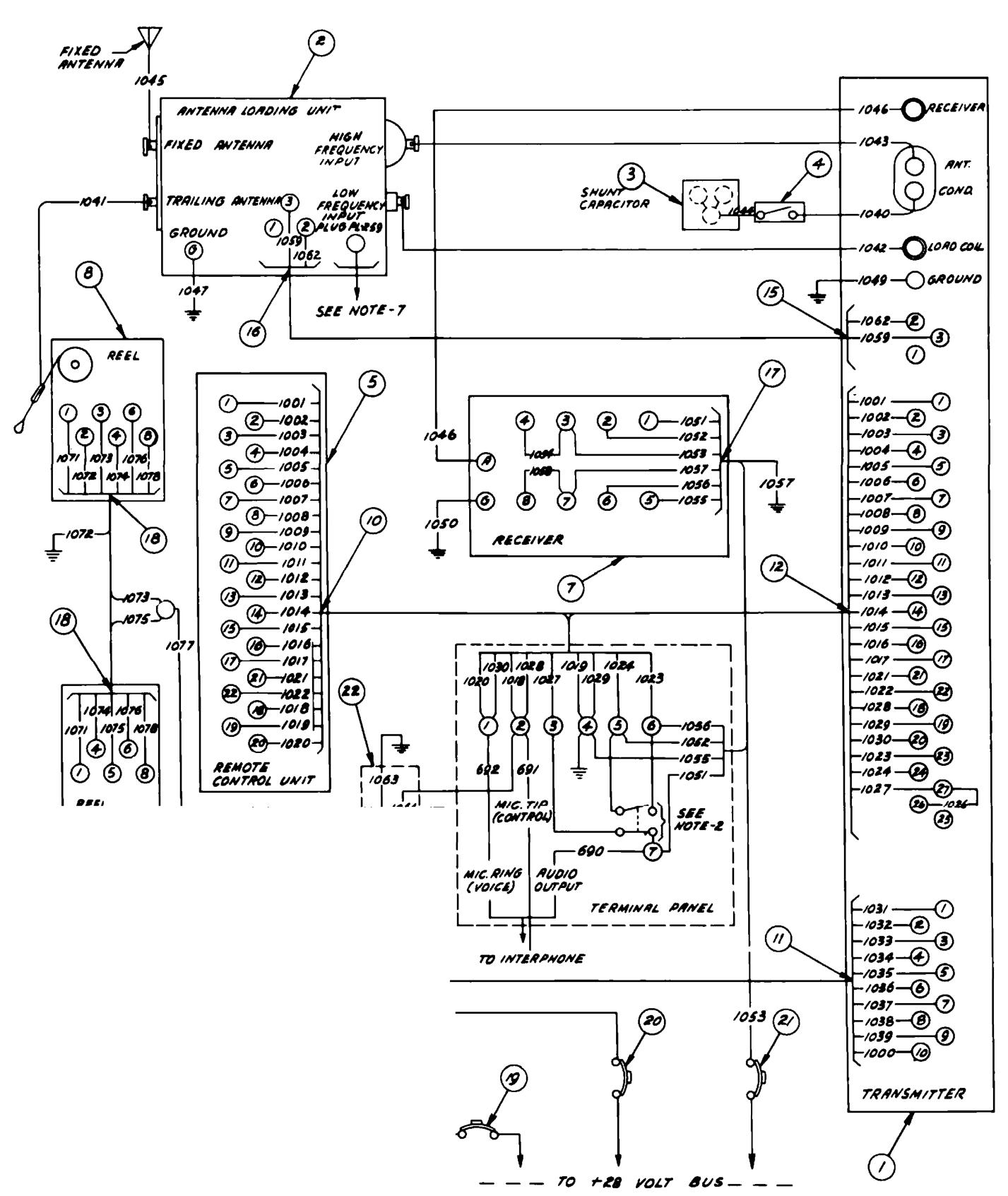
WIRE TABLE All wires to be Aircraft Cable per Spec. AN-J-C-48 unless otherwise specified.

- NOTES:
 1 All Terminal Strips required in the installation of the wiring shall be made of suitable insulating material and with terminal spacing to prevent voltage breakdown.
 2 Use two switches, Monitor Switch AM-3022-2, ganged by means of Connector Blocks 37A2070, or one Switch AN-3023-3. Wire switch as in diagram, for normal or up position. Locate switch within easy reach of radio operator, preferably in Connector Panel.
 3 If remote control is not required, delete items (and (a), and wires 1001 to 1022 inclusive.
 4 To prevent corona discharge at high altitudes, Antenna Leads 1040 to 1045 inclusive, shall be solid copper wire covered with insulating Beads (N-83. They shall be routed to prevent sharp bends and spaced at least 1½ inches from all metallic objects.
 5 Ground connections shall be made to the frame of the aircraft. All leads shall be kept as short as possible with only enough slack to allow free movement of unit on its shock
- short as possible with only enough slack to allow free movement of unit on its shock mount. Remove all paint at point of contact.

 Wire \$1000 to be "Type ACA 3000 Volt Radio Hookup Wire," as made by Rockbestos Products Corp., New Haven, Conn., or equal.

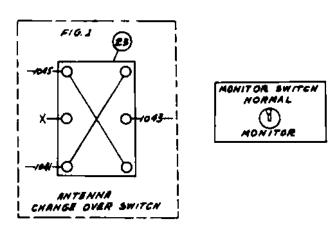
 7 Antenna Socket for a Plug PL-259 from other radio equipment.

- 8 Items 3 and 4 required only when fixed wire antenna measures less than 55 feet from transmitter to farthest end. Do not include short end of "T" type antenna.
 9 When low frequency components are not installed delete items (3), (a) and (a). Substitute item (a) (Fig. 1) delete wire 1042, connect terminal "X", Fig. 1, to antenna terminal of other radio equipment or connect direct to ground.



AN 08-30 ART 13-3

Section Y



		CC	MPONENT TABLE	E		
-	Quan.	Equipm	Spec. or	Instal-		
Item	Reg'd	Description	Type No.	Manufacturer's Part Number	Installation Drawing	Figure No.
* 1	1	Radio Transmitter	T-47A/ART-13		H44G26626	5-1
* 2	1	Antenna Loading Unit (See Note 9)	CU-32/ART-13A	<u> </u>	H44G26626 H44G26603	
* 3	1	Antenna Shunt Capacitor (See Note 8)	CU-24/ART-13		H44D3446	5-12
• 4	1	Switch (See Note 8)	SA-46/ART-13A		H45D2584	5-13
• 5	1	Control Unit (Remote)	C-87/ART-13	-	H44D3445	5-11
* 6	1	Dynamotor Unit	DY-17/ART-13A		H45G2467	5-3
• 7	1	Radio Receiver	BC-348-()		H40D3166	
* 8	1	Reel (Antenna)	RL-42-B		H42G4623	
* 9	1	Reel Control Box	BC-461		H42G4623	
*10	1	Plug	U-6/U	NK-27-21C 1/6	H44D3981	5-14
•11	1	Plug	U-7/U		H44D3981	5-14
*12	1	Plug	U-8/U		H44D3981	5-14
*13	1	Plug	U-9/U		H44D3981	5-14
*14	1	Plug	U-10/U		H44D3981	5-14
* 15	1	Plug	U-11/U		H44D3981	5-14
*16	1	Plug	U-12/U		H44D3981	5-14
*17	1	Plug	PL-(PORQ) 103		H40D3166	
*18	2	Plug	PL-112		H42-G4623	
19	1	Circuit Breaker	AN-3161-50		AN-C-77A	_
20	1	Cricuit Breaker	AN-3161-10		AN-C-77A	
21	1	Circuit Breaker	AN-3161-5	-	AN-C-77A	
*22	1	Key	J-37		H39B3362	
*23	1	Switch (See Note 9)	SA-13/U		H44D3942	5-10

*Indicates Government furnished equipment.

Manufacturer shall indicate to which points on Electrical Wiring Diagram these connections are made.

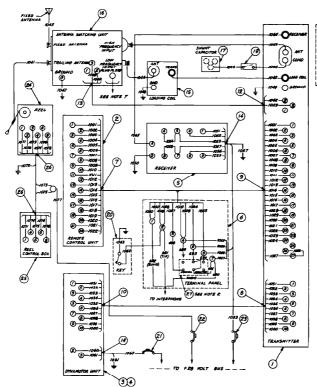
POWER REQUIRED AT 28 VOLTS INPUT

707277124011227712070270				
Receiver	Maximum	2 Amps.		
Titt	Stand By On Voice	11 Amps.		
Transmitter	Maximum	37 Amps.		
Reel	Maximum	4.5 Amps.		

Figure 5-15 - Radio Set AN/ARC-8 - Typical Wiring Diagram

5-95 - 5-96

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COMPONENT TABLE *Indicates Government Furnished Equipment.							
	Equipment Nomenclature						
Item	Quan. Reg d.	Description	Designation or Type No.	Manufacturer's Part Number	Installation Drawing		
• 1	1	Radio Transmitter	T47/ART-13	52286	H44G3442		
• 2	1	Control Unit (Remote)	C 87/ART-13	23330	H44D3445		
• 3	1	Dynamotor Unit ()	DY 11/ART-13	21931 & 23333	H44D3444		
- 3	' '	Dynamotor Unit (107)		21932 & 23333	H44D3444		
• 4	1	Mounting Plate	MT 164/ART-13	23333	H44D3444		
• 5	1	Receiver	BC-348 ()		H40D3166		
6	1	Terminal Panel			ľ		
• 7	1	Plug	U-6/U		H44D3981		
- 8	1	Plug	U-7/U	FK-10-21C 12	H44D3981		
• 9	1	Plug	U-8/U	RNK-27-22C 1/4			
• 10	1	Plug	U-9/U	RFK-10-24C %	H44D3981		
•11	1	Plug	U-10/U		H44D3981		
•12	1	Plug	U-11/U	FWK-C3-23C 1/2			
•13	1	Plug	U-12/U	WK-C3-23C 1/4	H44D3961		
°14	1	Plug	PL-()-103		H40D3166		
•15	1	Antenna Loading Coil	CU-25/ART-13	47281	H44D3443		
•16	1	Antenna Switching Unit	SA-22/ART-13		H44D3686		
•17	1	Antenna Shunt Capacitor	CU-24/ART-13	481628	H44D3446		
*18	1	Switch (See Note 10)	SA-13/U		H44D3942		
•19	1	Switch	SA-46/ART-13	_	H45D2584		
*20	1	Key	J-37		H3983362		
21	1	Circuit Breaker	AN3161-P50		AN-C-77		
22	1	Circuit Breaker	AN3161-P10		AN-C-77		
23	1	Circuit Breaker	AN3161-P5		AN-C-77		
*24	1	Reel	RL-42-B		H42G4623		
*25	1	Reel Control Box	BC-461		H42G4623		
*26	2	Plug	PL-112		H42G4623		
•27	1	Switch (See Note 2)	AN3023-3		AN-5-20		

Manufacturer shall indicate to which points on Electrical Wiring Diagram these connections are made. DOMED DECIMINED AT AN ANY TO INDUST

Receiver	Maximum	2 Amps
Transmitter	Stand By On Voice	11 Amps.
Iransmitter	Maximum	37 Amps.
Reel	Maximum	4.5 Amps

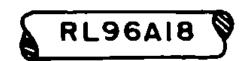
Figure 5-16-Radio Transmitting Set AN/ART-13-Typical Wiring Diagram

5-97 - 5-98

WIRE TABLE

EACH CABLE FOR THIS EQUIPMENT SHALL BE IDENTIFIED IN THE AIRPLANE WIRING DIAGRAM AND SHALL BE LABELED ON THE AIRPLANE WIRING IN ACCORDANCE WITH SPEC. AN-W-14 EXCEPT THAT THE CABLE NUMBER OF THE CABLE IDENTIFICATION CODING SHALL BE AS ASSIGNED HEREIN.

(EXAMPLE OF THE FIRST WIRE IN THE TABLE BELOW)



REF. NOTE	WIRE NO.	MAXIMUM OPERATING VOLTAGE	MAX.ALLOWABLE RESISTANCE IN OHMS (71°C)	MINIMUM CABLE SIZE PERMITTED
	96	30	3	18
	97	30	3	81
6	99	0	0.001	14
3&6	100	50	3	14
4 & 5	AA	5000		10
4 & 5	FF	5000		10
4 ε, 5	GG	5000		10
3,46.5	НН	5000		10

- 7. WHEN ANTENNA LOADING UNIT CU-32/ART-13A IS INSTALLED A PLACARD SHALL BE INSTALLED VISIBLE TO EACH OPERATOR AS FOLLOWS: "WHEN USING LF CHANNEL ON THE FIXED WIRE ANTENNA, TRANSMISSION MUST BE LIMITED TO CW OPERATION. MCW OR VOICE TRANSMISSION WILL RESULT IN EQUIPMENT FAILURE."
- 6. GROUND CONNECTION FOR CABLE 99 (AND FOR CABLE 100 WHEN REQUIRED) SHALL BE MADE TO THE METAL FRAME OF THE AIRCRAFT. REMOVE ALL PAINT AT THE POINT OF CONTACT. GROUND LEADS SHALL BE KEPT AS SHORT AS POSSIBLE WITH ONLY ENOUGH SLACK TO ALLOW FREE MOVEMENT OF THE UNIT ON ITS SHOCK MOUNT
- 5. THE CONTRACTOR IS NOT REQUIRED TO LABEL CABLES AA, FF, GG, AND HH.
- 4. TO PREVENT CORONA DISCHARGE AT HIGH ALTITUDES ANTENNA LEADS, AA, FF, GG, AND HH SHALL BE SOLID COPPER WIRE INSULATED WITH BEADS IN-83 WHERE NECESSARY FOR PROTECTION. THE LEADS SHALL BE ROUTED TO PREVENT SHARP BENDS AND THEY SHALL BE SPACED AT LEAST 1-1/2 INCHES FROM ALL METALLIC OBJECTS, EXCEPT LEAD FF WHICH SHALL HAVE AT LEAST 3/4 INCH CLEARANCE.
- 3. WHEN CONNECTION OF WIRE 100 TO AN AUXILIARY RECEIVING EQUIPMENT IS REQUIRED A TRAILING WIRE ANTENNA IS NECESSARY, WHEN A TRAILING WIRE ANTENNA IS INSTALLED AND NO CONNECTIONS TO AUXILIARY RECEIVING EQUIPMENT IS REQUIRED WIRE 100 SHALL BE GROUNDED. WHEN NO TRAILING WIRE ANTENNA IS INSTALLED PLUG PL-259 AND WIRE 100 SHALL BE DELETED.
- 2. WHEN ANTENNA LOADING UNIT CU-32/ART-13A IS INSTALLED PANEL MX-128/ART-13 SHALL BE REMOVED FROM THE RADIO TRANSMITTER AND REPLACED BY OSCILLATOR O-17/ART-13A.
- I. THIS DRAWING SUPPLIMENTS DRAWING AD3544. CONNECTION OF LEADIN WIRE AA SHALL BE IN ACCORDANCE WITH THIS DRAWING.

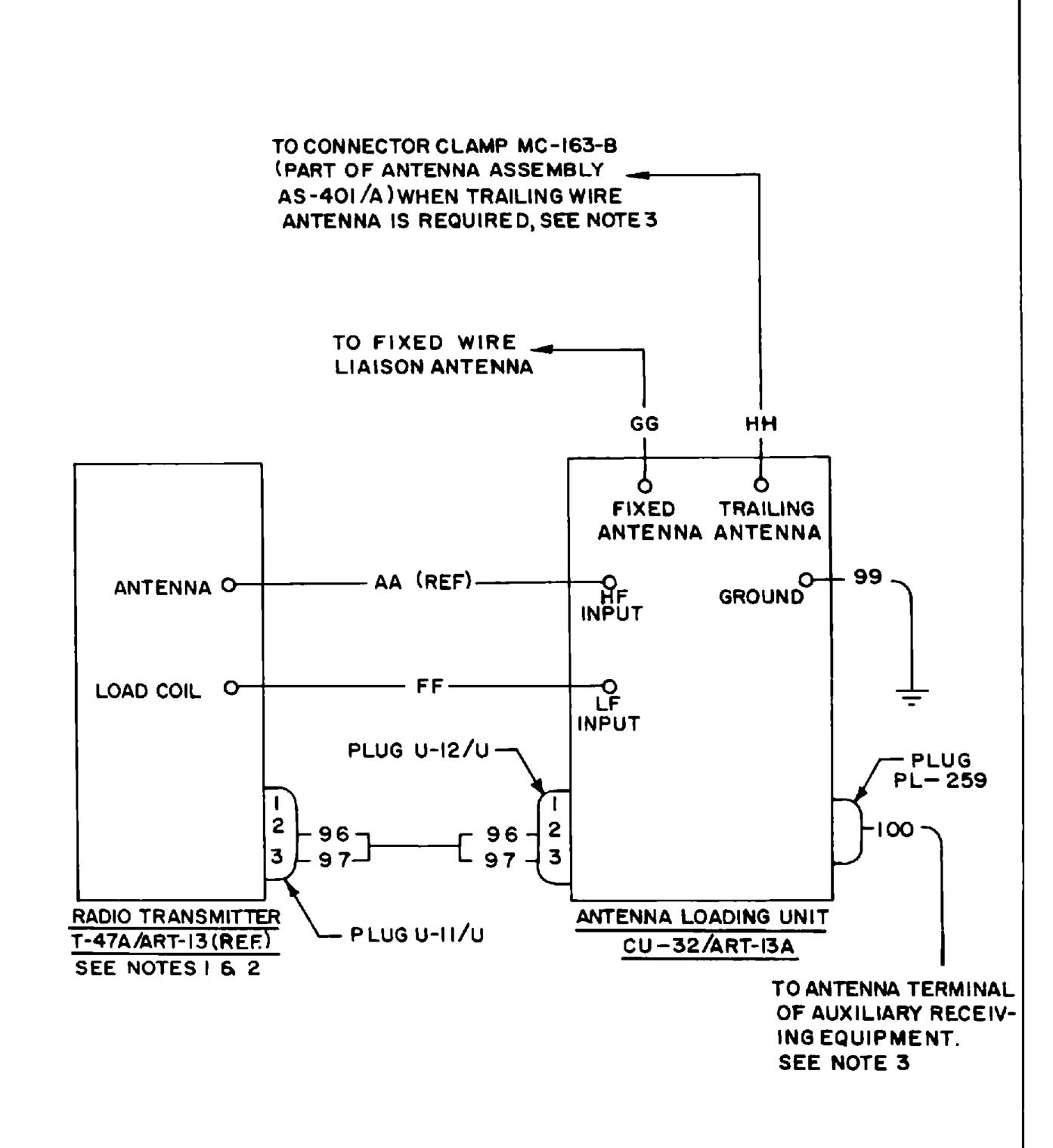


Figure 5-17. Antenna Loading Unit CU-32/ART-13A. Wiring Diagram