



# IC-BU1

## MEMORY BACKUP BATTERY UNIT INSTRUCTION MANUAL

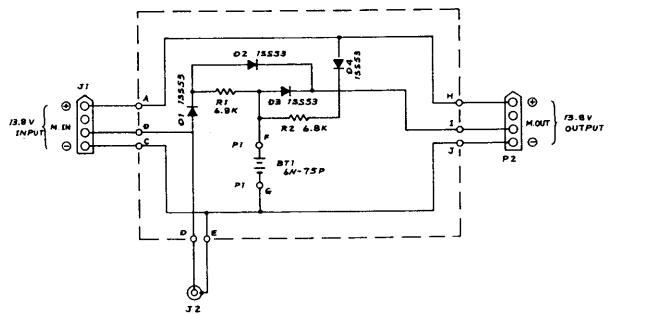
### PROFILE

- This unit is a memory backup battery unit for the ICOM mobile transceivers IC-290A/E, IC-490A/E and IC-25A/E. This unit keeps programmed data of the transceiver such as operating frequencies, memory channels' frequencies, offset frequency, etc., for several hours after the power source is turned off.
- This unit can be attached to your transceiver, and its power source for charging built-in battery can be taken from the original power source for the transceiver.
- You can carry the transceiver from car to home or from home to car, or leave it in your car's trunk while keeping the programmed data.

### SPECIFICATIONS

Applicable Transceivers	IC-290A/E, IC-490A/E, IC-25A/E
Number of Semiconductors	Diode 4
Power Supply Requirement	13.8V $\pm 15\%$ Negative ground (For operating transceiver) 8 ~ 15V DC Negative ground (For memory backup only)
Output Voltage and Capacity (For memory backup)	7.2V 75mAh (6N-75P Nickel-Cadmium Battery)
Charging Current	2mA Floating Charge
Charging Time	50 hours (for initial charge)
Usable Temperature	-10°C ~ +60°C (14°F ~ 140°F)
Dimensions	34mm(H) x 34mm(D) x 84mm(W)
Weight	200g

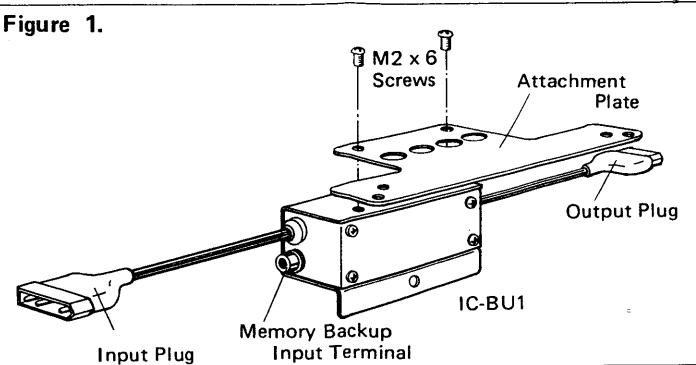
### SCHEMATIC DIAGRAM



### INSTALLATION

- Attach the supplied attachment plate as shown in the figure 1, using the two screws which have retained the cover of the unit.

Figure 1.



- Remove the two screws at the rear end of the transceiver's bottom cover.
- Attach the unit to the rear panel of the transceiver as shown in the figure 2 and 3, using the two screws which have retained the bottom cover. Use the outer holes of the attachment plate for IC-290A/E or IC-490A/E, or the inner holes for IC-25A/E.

Figure 2. For IC-290A/E or IC-490A/E

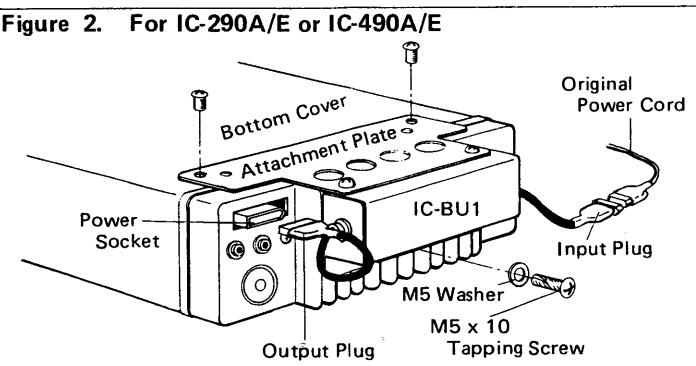
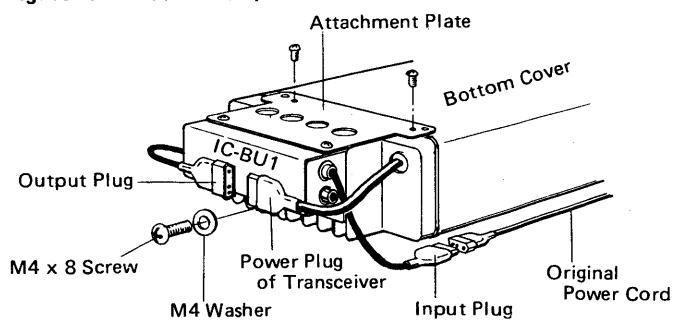


Figure 3. For IC-25A/E



- Retain the top end of the unit to the heatsink of the transceiver using the supplied M4 x 8 screw and M4 washer for IC-25A/E, or M5 x 10 tapping screw and M5 washer for IC-290A/E or IC-490A/E.
- Connect the output plug of the unit to the power socket of the transceiver as shown in the figures.
- Connect the original power cord for the transceiver to the input plug of the unit as shown in the figures.
- When you want to use an optional memory backup power supply, BC-10A for charging the unit, connect it to the memory backup input terminal of the unit using the pin-plug adapter supplied with BC-10A.

### OPERATION

- Now you can use the transceiver as used before. However, for initial use, charge the built-in nickel-cadmium battery of the unit for 50 hours by connecting the unit to a continuous operating power source.
- Current drain (and usable time) for memory backup is shown as follows:  
IC-290A/E or IC-490A/E  
15mA (5 hours) When the POWER switch is turned ON.  
8mA (9 hours) When the POWER switch is turned OFF.  
IC-25A/E  
5mA (15 hours)  
When the power switch of the transceiver is turned ON, the current drain will be larger than when the switch is turned OFF. So, turn OFF the power switch when you make memory backup with this unit.
- When the power source for the transceiver is activated even if the power switch of the transceiver is turned off, the current drain is zero, and the battery will be charged. (The charge current is about 2mA.)
- When you carry the transceiver from your car or your shack, unplug the power plug which is connected to the input plug of this unit. If you unplug the output plug of this unit from the power socket of the transceiver, you may lose the programmed data.

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