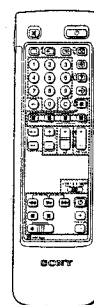
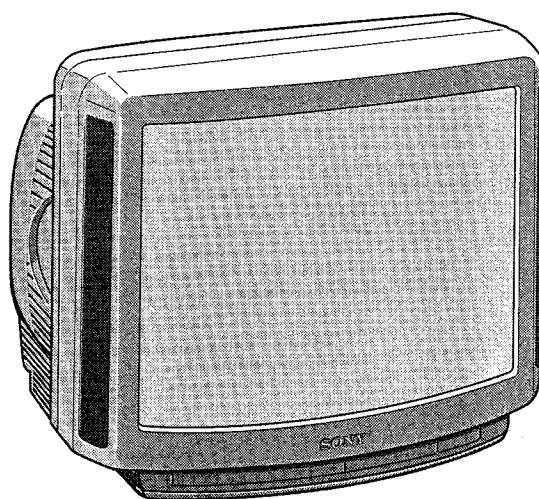


SERVICE MANUAL

BE-3B CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-X2981A	RM-833	Italian	SCC-G81J-A	KV-X2981K	RM-833	OIRT	SCC-G86F-A
KV-X2983B	RM-833	French	SCC-G85G-A	KV-X2982U	RM-833	UK	SCC-G87E-A
KV-X2981D	RM-833	AEP	SCC-G77J-A				
KV-X2983E	RM-833	Spanish	SCC-G82H-A				



TRINITRON® COLOR TV
SONY®

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
AEP	B/G/H, D/K	GERMAN Stereo	PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Italian	B/G/H, D/K	GERMAN Stereo	ITALIA VHF:A-H2 (C) PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
French	B/G/H, L, I	GERMAN Stereo	L VHF:F02-F10 UHF:F21-F69 CABLE:B-Q S21-S44 B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) I UHF:B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H	GERMAN/NICAM Stereo	PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
UK	I	NICAM Stereo	UHF : B21-B69	PAL NTSC4.43, NTSC3.58 (VIDEO IN)
OIRT	B/G/H, D/K	GERMAN Stereo	B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

MODEL	Italian	French	AEP	Spanish	UK	OIRT
Power Consumption	108W	108W	108W	108W	156W	108W

SPECIFICATIONS

Picture Tube Hi-Black Trinitron
Approx. 72 cm (29 inches)
(Approx. 68 cm picture measured diagonally)
110° -deflection

Input/Output Terminals

[REAR]

- ①-1 21-pin Euro connector (CENELEC standard)
 - inputs for audio and video signals
 - inputs for RGB
 - outputs of TV video and audio signals
- ②/③ 2 21-pin Euro connector
 - inputs for audio and video signals
 - inputs for S video
 - outputs for audio and video signals (selectable)

[FRONT]

- ⊖3 Video input - phono jack
- ⊖3 Audio inputs - phono jacks
- ⊖3S video input 4-pin DIN
- Ω Headphone jacks : stereo minijack

- Sound output 2 x 30W (Music power)
- Dimensions Approx. 676x557x528 mm
- Weight Approx. 48kg
- Supplied accessories RM-833 Remote Commander (1)
IEC designation R6 battery (1)
- Other features NICAM, FASTEXT, TOPTXT.

[RM-833]

- Remote control system infrared control
- Power requirements 1.5V dc
1 battery IEC designation R6 (size AA)
- Dimensions Approx. 65x225x21 mm (w/h/d)
- Weight Approx. 157g (Not including batteries)

Design and specifications are subject to change without notice.

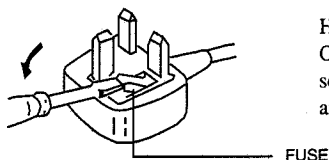
Model name Item	KV-X2981A	KV-X2983B	KV-X2981D	KV-X2983E	KV-X2981K	KV-X2982U
Pal Comb	OFF	ON	OFF	OFF	ON	OFF
PIP	OFF	OFF	OFF	OFF	OFF	OFF
RGB Priority	ON	ON	OFF	OFF	OFF	OFF
Woofers Box	OFF	OFF	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON	ON
Scart 4	OFF	OFF	OFF	OFF	OFF	OFF
Projector	OFF	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON	ON
Norm B/G/H	ON	ON	ON	ON	ON	OFF
Norm I	OFF	ON	OFF	OFF	OFF	ON
Norm D/K	ON	OFF	ON	OFF	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF	OFF
Toptext	ON	ON	ON	ON	ON	OFF
Nicam Stereo	OFF	ON	OFF	ON	OFF	ON
Language Preset	Italian	French	German	Spanish	OIRT	English

WARNING (KV-X2982U only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** capacity. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by ASTA to BS 1362, ie one that carries the  mark. •

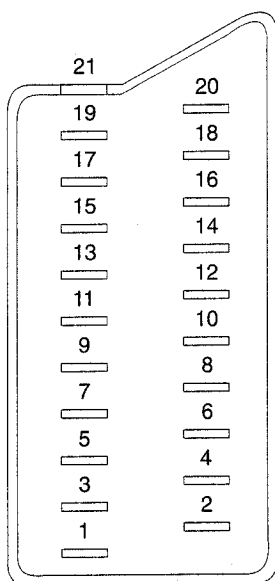
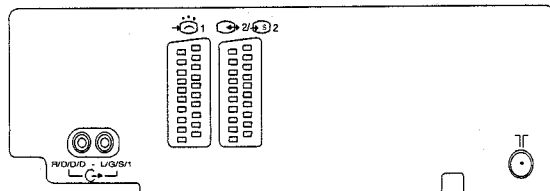
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME. IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET.

When an alternative type of plug is used it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.



How to replace the fuse.
Open the fuse compartment with the screwdriver blade and replace the fuse.

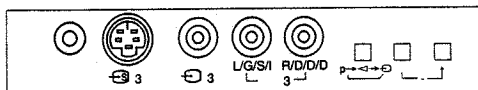
21 pin connector (1 2 4)



Pin No.	1	2	4	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
2	○	○	○	Audio input B (right)	Standard level : 0.5V rms Output impedance : More than 10kohm*
3	○	○	○	Audio output A (left)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedance : More than 10kohm*
7	○	●	●	Blue input	0.7 ± 3dB, 75 ohms, positive
8	○	○	○	Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More than 10k ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7 ± 3dB, 75 ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	—	—	Red input	0.7 ± 3dB, 75 ohms, positive
	—	○	○	(S signal) chroma input	0.3 ± 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75ohms
17	○	○	○	Ground (video output)	
18	○	○	○	Ground (video input)	
19	○	○	○	Video output	1V ± 3dB, 75ohms, positive sync: 0.3V(-3+10dB)
20	○	—	—	Video input	1V ± 3dB, 75ohms, positive sync: 0.3V(-3+10dB)
	—	○	○	Video input Y (S signal)	1V ± 3dB, 75ohms, positive sync: 0.3V(-3+10dB)
21	○	○	○	Common ground (plug, shield)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm , positive Sync. 0.3V -3/+10 dB
4	C (S signal) input	0.3V ± 3dB 75 ohm , positive Sync.



For Service Manuals
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 email:- mauritron@dia1.pipex.com

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATING TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD, DUE TO A LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLIMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

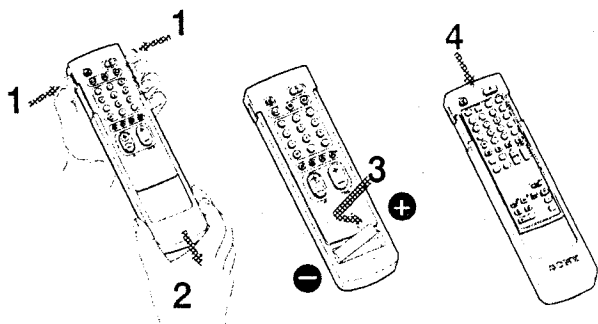
ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ !!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

Getting Started

Inserting the Battery Into the Remote Commander



Remove the cover.

Check the correct polarity.

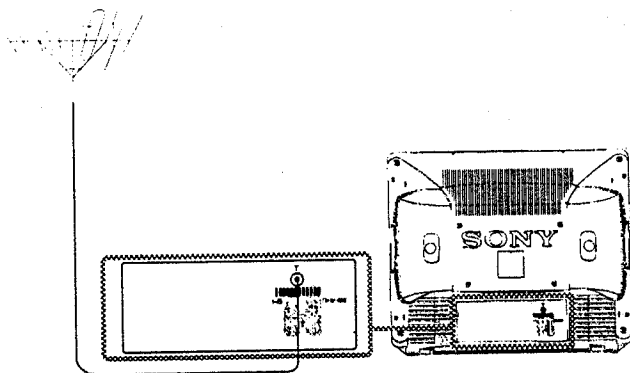
Relit the outside cover making sure that the Full Function side is visible.

About Battery Life

Under normal operation, a battery will last up to half a year.

Connecting the Aerial

Connect aerial to the TF socket at the rear of the TV.
(cable not supplied)



Choosing a Language

(See inside of front cover and back cover)

- 1 Depress **A** on the TV.
The TV turns on. If the standby indicator **B** on the TV is lit, press **3** or any number button **4** on the Remote Commander.

- 2 Press **MENU** **7** on the Remote Commander.
The SELECT LANGUAGE screen appears.

MENU

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

- 3 Press one of the colour buttons **17** on the Remote Commander to select a language (Press the white button **17** to display other language alternatives). The SELECT LANGUAGE screen clears and all subsequent menus appear in the chosen language.

SELECT LANGUAGE

- ❖ ENGLISH
- ❖ DUTCH
- ❖ FRENCH
- ❖ ITALIAN
- ❖ MORE

SELECT COL BUTTON

Note: From the second time when you turn on the TV, the MENU screen appears instead of the SELECT LANGUAGE screen. Press the yellow button **17** then press the white button **17** to redisplay the SELECT LANGUAGE screen.

Tuning in to Channels

You can tune in up to 100 channels to programme positions either automatically or manually.

auto tuning: A single button press allows all receivable channels to be tuned. Use if you are unfamiliar with the channel numbers of stations.

manual tuning: Use if you are familiar with the channel numbers of stations.

Choose the more appropriate way for you.

Tuning in to Channels Automatically

There are two possibilities for auto tuning;

- A. On the TV: hold down **▶▶** **E** on the front of the TV for 2 seconds
- or
- B. On the Remote Commander: as follows

- 1 Press **MENU** **7**.
- 2 Press the white button **17**.
- 3 Hold down the red button **17** for 2 seconds,

Note: Press the green button **17** to cancel.

Tuning in to Channels Manually

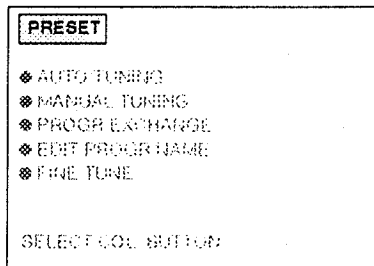
1 Press MENU [7].

The MENU screen appears.

MENU

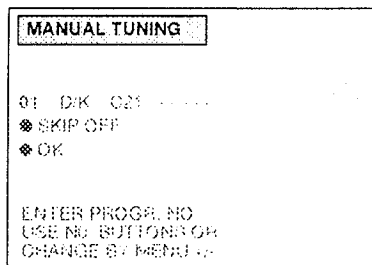
2 Press the white button [17] to select PRESET.

The PRESET screen appears.



3 Press the green button [17] to select MANUAL TUNING.

The MANUAL TUNING screen appears.

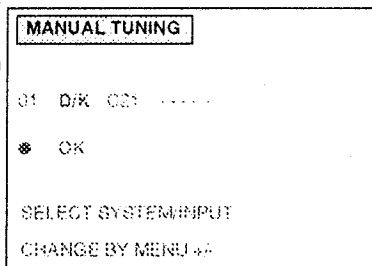


4 Press the number buttons [4] or MENU+/- [9] to select a programme position.

If you use the number buttons [4], enter a double-digit number. (e.g. for programme number 4, first press 0, then 4)

5 Press the green button [17].

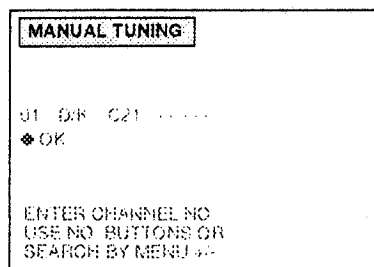
Note: Use MENU +/- [9] to select TV system. You can alternatively select input sources which may be assigned to programme positions. The display changes as follows:



B/G ↔ D/K ↔ AV1 ↔ RGB ↔ AV2 ↔ YC2 ↔ AV3 ↔ YC3

6 Press the green button [17].

Note: If a video input source is selected in step 5, this is now stored. Refer to step 4 to tune other programme positions.



7 When you have selected B/G, press the red button [17] to select C (regular channel) or S (cable channel).

8 Press the number buttons [4] or MENU+/- [9] to select the channel number.

If you use the number buttons [4], enter a double-digit number. (e.g. for channel 23, first press 2, then 3)

9 Press the green button [17] to store.

Note: If you want to preset other channels, repeat steps 4 to 9.

10 Press MENU [7] twice to return to the normal screen.

Note: You can skip unused programme positions when selecting programmes with the PROGR +/- buttons [18]. Press the red button [17] to skip in step 4. However, the skipped programmes may still be called up when you use the number buttons.

Basic TV Operations

Turning the TV on and off

Turning on

Depress ⓐ [A] on the TV.

Turning off temporarily

Press ⓐ [10] on the Remote Commander.

The TV enters standby mode and the standby indicator [B] on the front of the TV lights up.

Turning on again

Press ⓐ [3], PROGR +/- [18], or one of the number buttons [4] on the Remote Commander.

Turning off completely

Depress ⓐ [A] on the TV.

Note: It is recommended to use ⓐ [A] to turn off the TV. This could help you save energy.

Selecting TV Programmes

Press PROGR +/- [18] or press number buttons [4].

To select a double-digit number

Press +/- [5], then the number buttons [4].

Adjusting the Volume

Press ⏏ +/- [19].

Muting the Sound

Press ⏏ [1].

To resume normal sound, press ⏏ [1] again.

Displaying the On-screen Indications

Press ⏏ [14] once to display the on-screen indications.

Press again to make the indications disappear.

Note: If NICAM is transmitted regardless of whether it is stereo or mono, the two speaker symbol automatically appears on the screen for several seconds.

Operating the TV Using the Buttons on the TV

With the buttons on the TV, you can adjust or select the functions as follows:

Press ⏏ +/- [D] to adjust the volume.

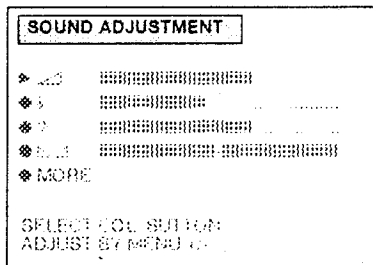
Press P +/- [C] to select programme numbers or to turn the TV on from the standby mode.

Press ⏏ [F] to select the input source.

Press ⏏ [E] to preset channels automatically.

SOUND ADJUSTMENT

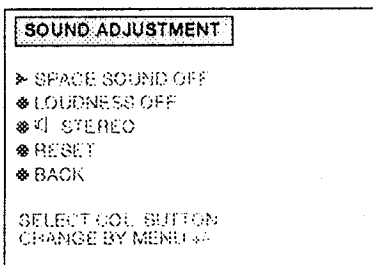
(First Page)



Press colour button	Effect
Red: For Volume	Less — — More
Green: For Treble	Less — — More
Yellow: For Bass	Less — — More
Blue: For Balance	More left - more right
White:	Next page of SOUND ADJUSTMENT

SOUND ADJUSTMENT

(Second Page)



Press colour button	Effect
Red: For Space Sound	OFF: normal sound ON: for a special acoustic sound effect
Green: For LOUDNESS	OFF: normal sounds ON: when listening to music broadcast
Yellow: For Stereo:	Stereo -> Mono A (left channel) -> Mono B (right channel) -> Mono
Blue: For Reset:	Resets to the factory preset levels for picture and sound
White:	Back to first page of SOUND ADJUSTMENT

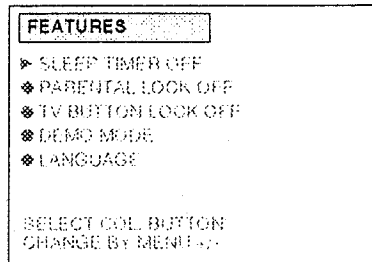
Note: Press [8] on the Remote Commander to reset to the factory preset levels for picture and sound.

Using Special Features

With your TV you can utilise special features such as Parental Lock or Sleep Timer.

- 1 Press MENU [7].
The MENU screen appears.
- 2 Press the yellow button [17] to select FEATURES.
- 3 Press the respective colour button [17] to select an item.
- 4 Press MENU +/- [9] to change.
- 5 Press MENU [7] twice or wait until the menu displays disappear automatically to return to the normal screen.

FEATURES



Press colour button	Effect
Red: For Sleep Timer (Automatic switch off function)	OFF -> 0:30 -> 1:00 -> 1:30 -> 2:00 (hours) After the selected time the TV set switches itself automatically into standby mode.
Green: For Parental Lock (For preventing children from watching programmes which you consider unsuitable)	OFF: Normal setting ON: The TV-channel you are watching is now blocked. In this way you can prevent undesirable broadcasts from appearing on the screen.
Yellow: For TV Button Lock	OFF: Normal setting ON: The buttons on the TV do not function anymore. (The Remote Commander still operates)
Blue: For Demo Mode	ON: A sequence of menu pictures is displayed. Press any button on the Remote Commander to stop the function.
White: For Language	The SELECT LANGUAGE screen appears.

Advanced Presetting Functions

Exchanging Programme Positions

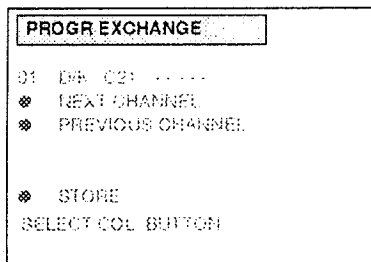
You can exchange the programme positions to a preferred order (example: exchange programme 09 (channel C21) with programme 15 (channel C24)).

- 1 Press MENU [7].
The MENU screen appears.

MENU

- 2 Press the white button [17].
The PRESET screen appears.

- 3 Press the yellow button [17].
The PROGR EXCHANGE screen appears.



- 4 Press the white button [17] repeatedly until the desired programme number (09) appears.
- 5 Press the red or the green button [17] repeatedly until the desired channel number (C24) appears.
- 6 Press the white button [17] to store.
Now the exchange has been completed. Channel C24 is tuned in to programme 09 and channel C21 is tuned in to programme 15.
- 7 Press MENU [7] twice to return to the normal screen.

Editing Programme Names

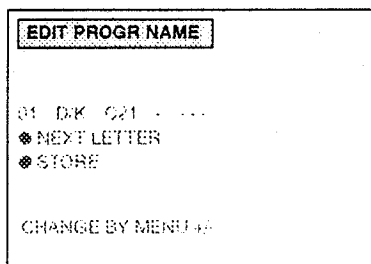
You can edit the programme names up to five letters.

- 1 Press MENU [7].
The MENU screen appears.

MENU

- 2 Press the white button [17].
The PRESET screen appears.

- 3 Press the blue button [17].
The EDIT PROGR NAME screen appears.
The first character flashes.



- 4 Press MENU+/- [9] to edit the first letter.
The first letter changes as follows;

A ↔ B ↔ ... ↔ Z ↔ 0 ↔ 1 ↔ ... ↔ 9 ↔ "-" (space)

- 5 Press the red button [17] to move to the next letter.

- 6 Repeat steps 4 to 5, until the fifth letter is chosen.

- 7 Press the green button [17].
The programme name is stored, and the normal screen appears. To edit another programme name, repeat steps 1 to 7.

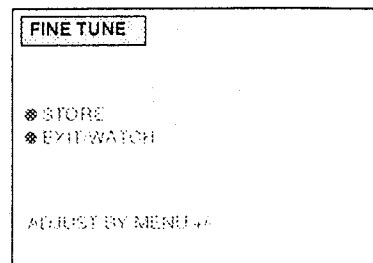
Fine Tuning

You can adjust the receiving condition by the FINE TUNE function.

- 1 Press MENU [7].
The MENU screen appears.

- 2 Press the white button [17].
The PRESET screen appears.

- 3 Press the white button [17] again.
The FINE TUNE screen appears.



- 4 Press MENU+/- [9] to adjust the receiving condition.
- 5 Press the red button [17] to store the adjustment, or press the green button [17] not to store.
Then the normal screen appears. If you have pressed the green button, the fine tuned condition is cancelled once you choose another programme.

Tuning in to a Channel Temporarily

You can tune in to a channel temporarily, even when it has not been preset.

- 1 Press C [16] on the Remote Commander. For cable channels, press C [16] twice.
The indication "C" ("S" for cable channels) appears on the screen.
- 2 Enter a double-digit channel number using the number buttons (e.g. for channel 23, first press 2, then 3).
The channel appears.
However, the channel is not stored.

Teletext Operation

TV stations broadcast teletext programmes via the TV channels. For basic operation of teletext, use the simple side of the Remote Commander. For the advanced features of teletext, use the buttons indicated in green on the full function side of the Remote Commander.

Basic Teletext Operation

Switching Teletext on and off

- 1 Select the channel which carries the teletext service you wish to view.
- 2 Press **⏏** **11** to display Teletext.
If no teletext signal is broadcast, the indication P100 is displayed on a black screen.



- 3 Input three digits for the page number using the number buttons **4**.
The numbers are displayed on the screen and the requested page appears in a few seconds.
Note: If you make a mistake, type in any three digits, then re-enter the correct page number.
- 4 Press **⏏** **3** once or **⏏** **11** twice to return to the TV mode.

Note: To change the teletext channels. First press **⏏** **3** to return to the TV mode, then repeat steps 1 to 3.

Note: If the signal of a TV channel is weak, teletext errors may occur.

Advanced Teletext Operation

Using Fastext

With Fastext you can access pages with one button press. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons **6** on the Remote Commander.
Press the corresponding colour button **6** on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed in a few seconds.

Requesting the Index page

Press **⏏** **17**. The Index page appears.

Accessing the next or preceding page

Press **⏏** **18** (PAGE +) or **⏏** **19** (PAGE -). The next or the preceding page appears on the screen.

Superimposing the teletext display on the TV picture

Press **⏏** **11** once if you are in text mode or press **⏏** **11** twice if in TV mode.
To return to the normal teletext display press **⏏** **11** twice.



Preventing a teletext page from being updated or changed

Press **⏏** **2** (HOLD). The HOLD symbol (**⏏**) appears on the screen and the selected subpage is held until you press **⏏** **11** to cancel.

Enlarging the teletext display

Press **⏏** **13** once to enlarge the upper half. Press twice to enlarge the lower half. Press again to restore the normal display.



Revealing concealed information (e.g. answers to a quiz)

Press **⏏** **14** (REVEAL). The information is revealed. Press **⏏** **14** again to conceal the information.

Watching TV while waiting for a requested page to be displayed

- 1 Request a new teletext page.
- 2 Press **⏏** **12** (TEXT CL).
The TV programme is displayed and the symbol **⏏** is displayed at the top of the page.
Note: When the requested page is available the page number is displayed at the top of the screen.

- 3 Press **⏏** **11** to view the page.

Note: To cancel the request

Display the teletext page, then press **⏏** **11**. The request is now cancelled. Press **⏏** **3** to resume TV mode.

Using the Favourite Page system

You can store up to four of your favourite teletext pages per programme with the help of the Favourite page system. In this way you have quick access to the pages you watch frequently.

Storing the Favourite Pages

- 1 Select the page you would like to store using the number buttons **4**.
- 2 Press **⏏** **15** twice.
The colour prompts at the bottom of the screen flash.
- 3 Press any of the colour buttons **6** on the Remote Commander to store the selected page.
The page is now stored on this button.

Repeat steps 1 to 3 for the other 3 pages available.

Displaying the Favourite pages

- 1 Press **⏏** **15**.
- 2 Press the colour button **6** corresponding to the colour prompt onto which the desired page is stored.
The page is requested. (It may take a few seconds to be received).

Note: Step 1 must be taken before every favourite page selection, otherwise the normal Fastext facility operates.

Using the Time Function in the TV mode

Press **⏏** **12** to request the time. Press again to cancel the request.

Note: This function is available only when teletext is broadcast.

Connecting Other Equipment

You can connect optional audio/video equipment to this TV such as VCRs, video disc players, cameras or stereo systems.

Connector	Acceptable input signal	Available output signal
1 M (AV1/RGB)	Audio/video and RGB signal	Audio/video signal from TV Tuner
2/3 L (AV2) (YC2)	Audio/video and S video signal	Audio/video signal from selected source
3/3 G H (AV3)	Audio/video signal and	No outputs
3/3 G I (YC3)	Audio/S video signal	

To watch a video input picture, press → 2 until the desired video input appears.
To return to the normal TV picture, press → 2 repeatedly or press □ 3.

Note: If you have a decoder, connect it to 1 M.

Connecting a VCR Using the TV Aerial Terminal

Connect the aerial output of the VCR to the aerial terminal K of the TV. It is recommended to tune in the VCR signal to programme number "0". For details, see "Tuning in to Channels Manually" on page 6.

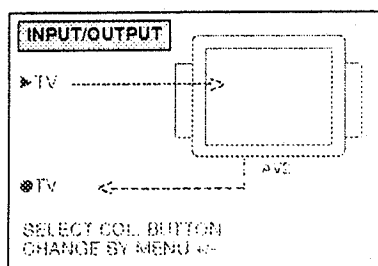
Note: S video input (Y/C input) 1 L
Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals.
Separating the Y and C signals prevents them from inter-

Checking and Selecting the Input and Output Sources Using the Menu

You can display a menu screen to see which input and output source are selected. You can also change the selection using this menu.

Checking the Input and Output Sources

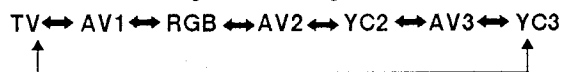
- 1 Press MENU 7.
The MENU screen appears
- 2 Press the blue button 17 to select INPUT/OUTPUT.
The INPUT/OUTPUT screen appears.



Selecting an Input Signal

Press the red button 17 to select INPUT. Press MENU +/- 9 to select the desired input source.

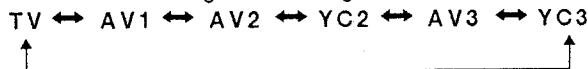
You can select among the following sources:



Selecting an Output Signal

The S 2 / S2 connector L outputs the source input from the other connectors. Press the green button 17 to select OUTPUT. Press MENU +/- 9 to select the desired output source.

You can select among the following sources:



Note: Press MENU 7 twice or wait until the menu displays disappear automatically to return to the normal screen.

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most Sony remote-controlled video equipment such as: Beta, 8mm or VHS VCRs or video disc players.

Tuning the Remote Commander to the equipment

- 1 Set the VTR 1/2/3 MDP selector 20 according to the equipment you want to control:
VTR 1: Beta VCR
VTR 2: 8mm VCR
VTR 3: VHS VCR
MDP: Video Disc Player

- 2 Use the buttons 21 to operate the additional equipment.

Note: If your video equipment is furnished with a COMMAND MODE selector: set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.

Note: If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.

Note: When you use the ● (record) button, make sure to press this button and the one to the right of it simultaneously.

Using Headphones

You can utilise headphones. Connect them to the headphone jack J, then the sound from the speakers goes off.

Note: You can't control the sound adjustment except for volume.

For your information

Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

No picture (screen is dark), no sound

- Plug the TV in.
- Press **⏻** **A** on the TV. (If the standby indicator **B** is lit, press **⏻** **3** or any number button **4** on the Remote Commander.)
- Check if the selected video source is on.
- Turn the TV off for three or four seconds and then turn it on again using **⏻** **A**.

Poor or no picture (screen is dark), but good sound

- Press MENU **7** to enter the MENU screen, and press the red button **17**, then adjust **⏻** and **⏻**.

Good picture but no sound

- Press **⏻** **19**.
- If **⏻** is displayed on the screen, press **⏻** **1**.

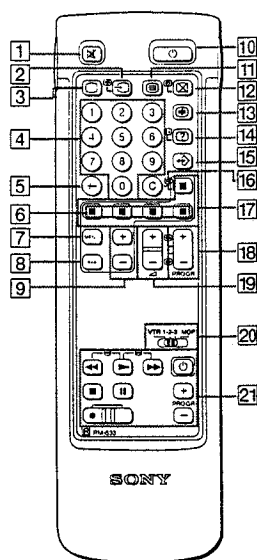
No colour for colour programmes

- Press MENU **7** to enter the MENU screen, and press the red button **17**, then adjust **⏻**.

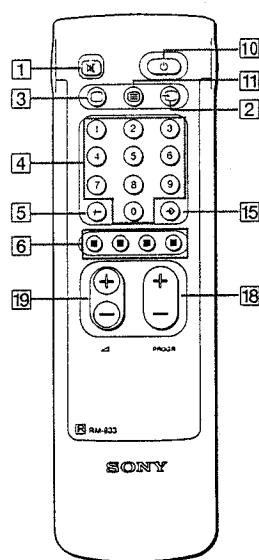
Remote Commander does not function

- Replace the battery.

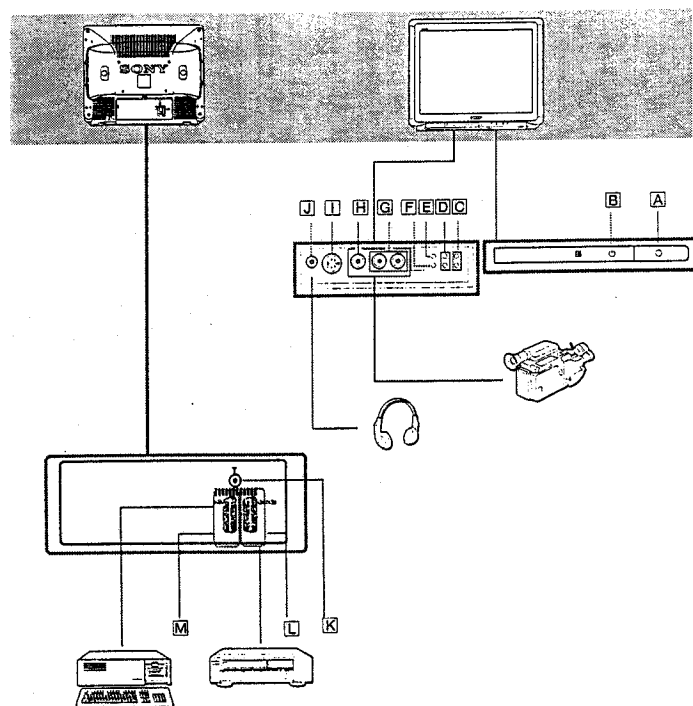
If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.



Full-Function Side
Полно функциональная
Teljes Funkciós Oldal
Strana se všemi Funkcemi
Strona Funkcji Złożonych
Страна с Всички Функции

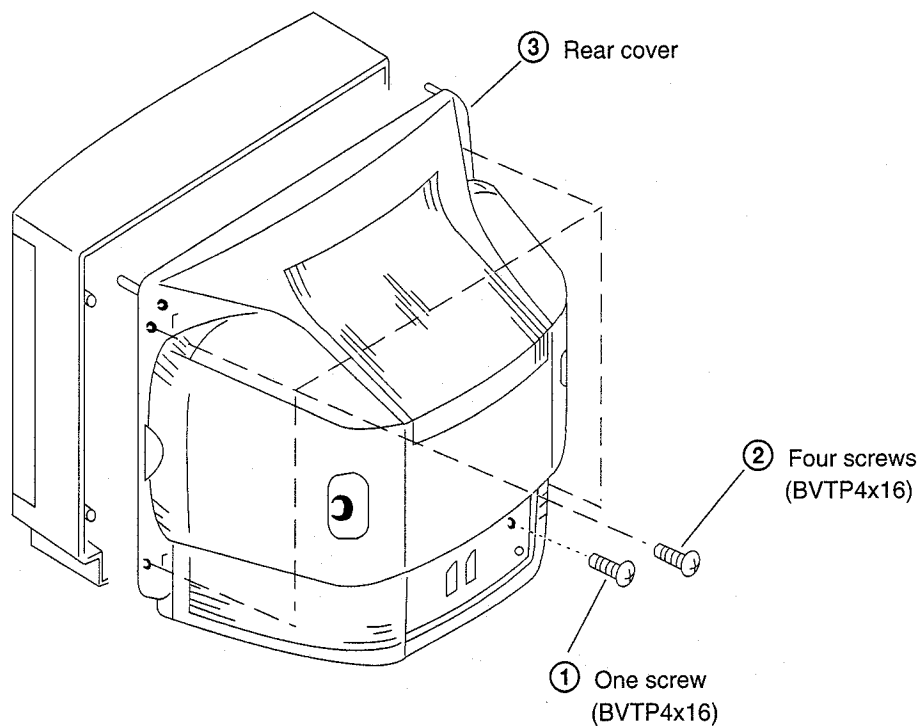


Simple Side
Простая Сторона
Egyszerű Oldal
Jednoduchá Strana
Strona funkcji podstawowych
Страна с Осиристени Функции

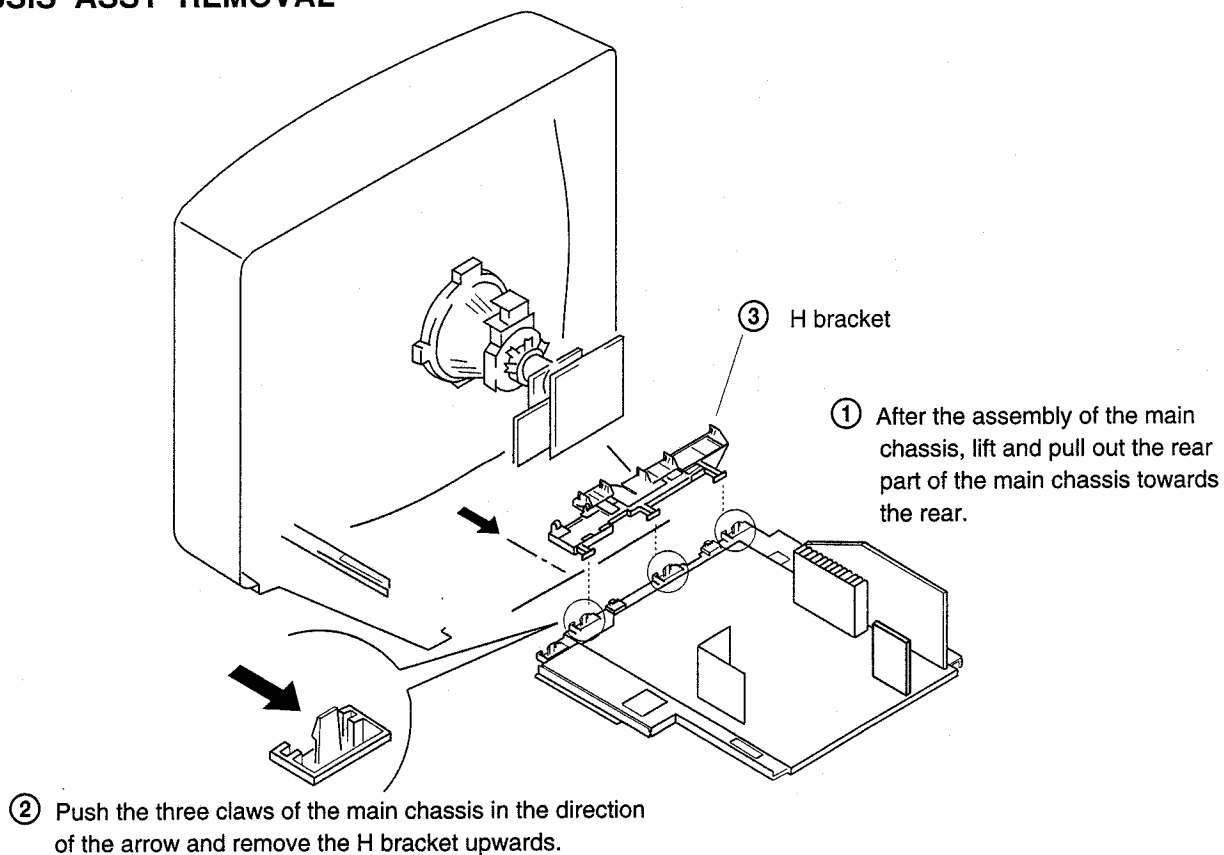


SECTION 2 DISASSEMBLY

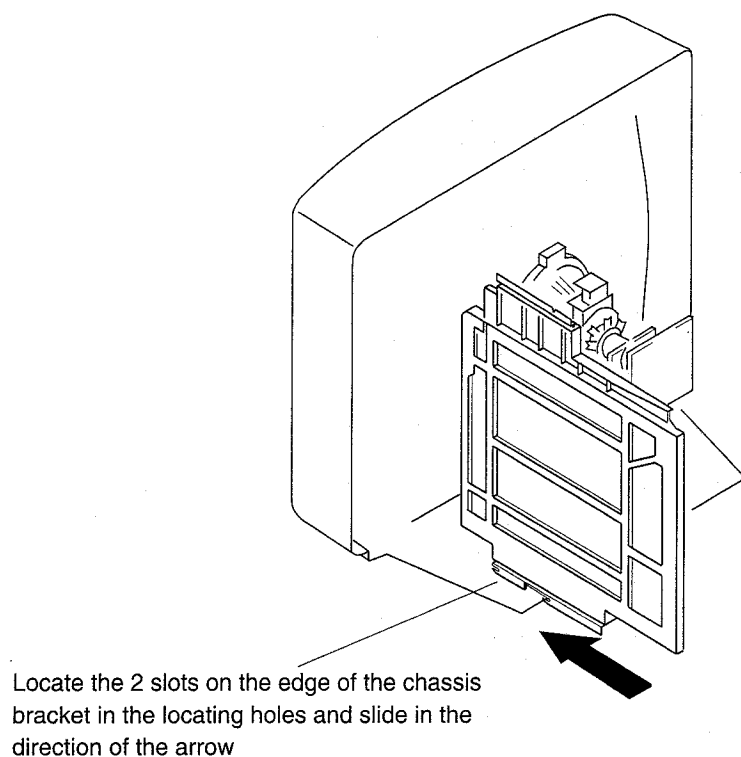
2-1. REAR COVER REMOVAL



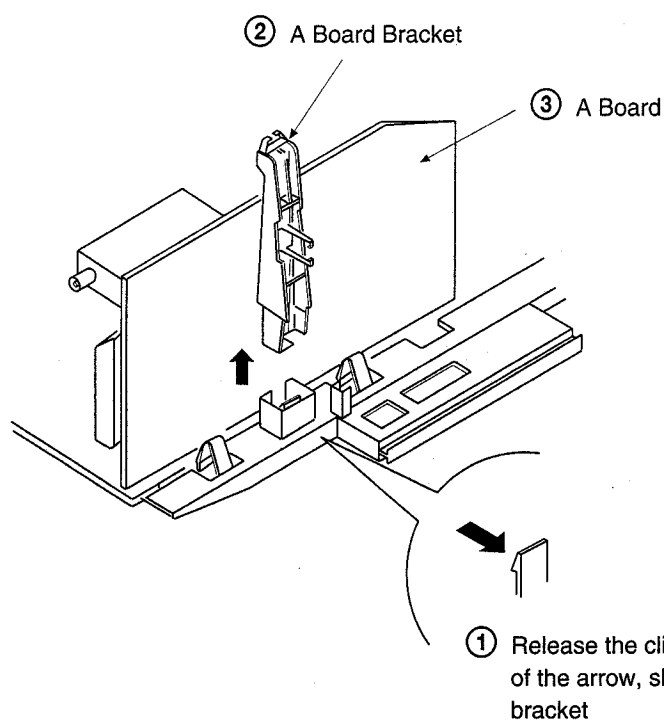
2-2. CHASSIS ASSY REMOVAL



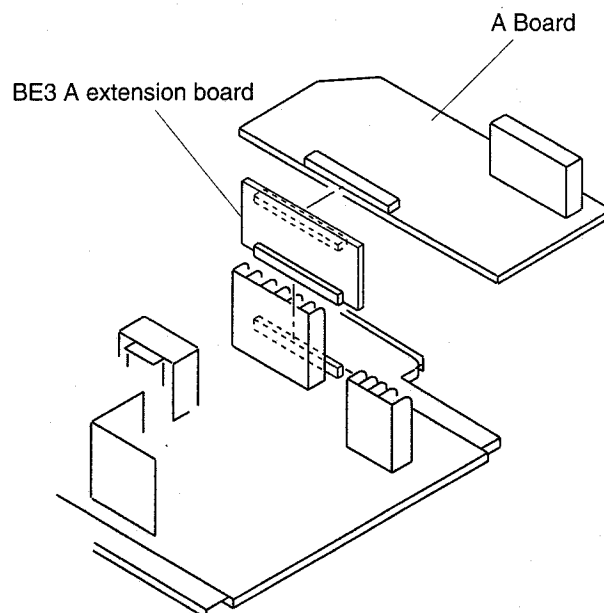
2-3. SERVICE POSITION



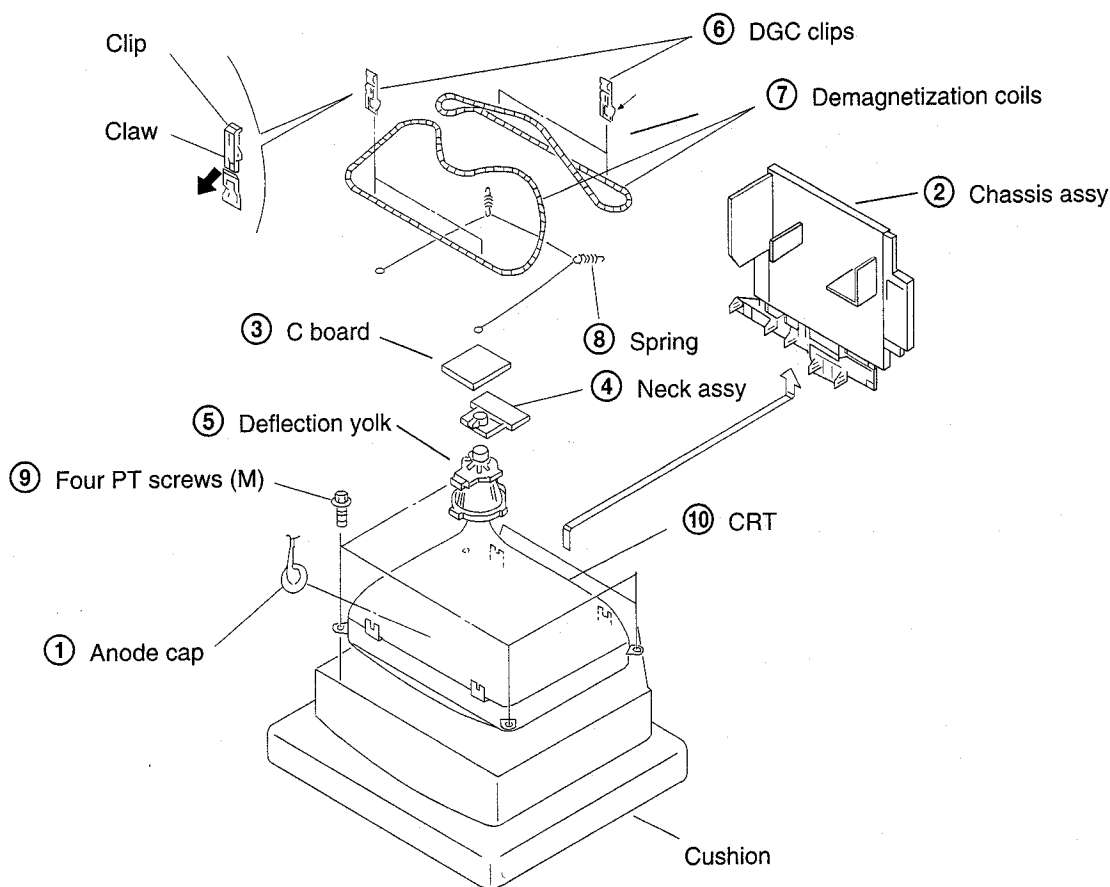
2-4. A BOARD REMOVAL



2-5. EXTENSION BOARD



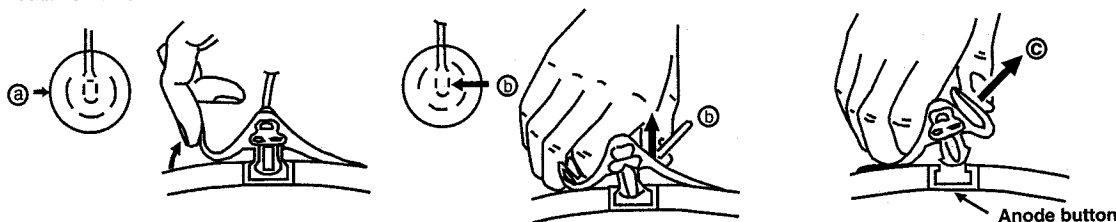
2-6. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

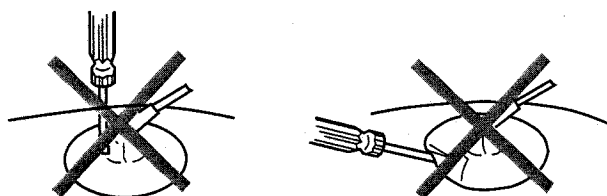
* REMOVING PROCEDURES.



- ① Turn up one side of the rubber cap in the direction indicated by the arrow (a)
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b)
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

• HOW TO HANDLE AN ANODE-CAP

- ① Don't damage the surface of anode-cap with sharp shaped material !
- ② Don't press the rubber hardly not to hurt inside of anode-caps !
A metal fitting called as shatter-hook terminal is built into the rubber.
- ③ Don't turn the foot of rubber over hardly !
The shatter-hook terminal will stick out or damage the rubber.



SECTION 3

SET - UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to these settings :

● Contrast 80% (or remote control normal)
 ☆ Brightness 50%

- Carry out the following adjustments in this order :

1. Beam landing
2. Convergence
3. Focus
4. White balance

Note: Testing equipment required.

1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
 CONTRAST } normal
 BRIGHTNESS }
2. Position neck assy as shown in Fig.3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke forward and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side. (See Fig. 3-1 - 3-3)
5. Move the deflection yoke forward and adjust so that the entire screen becomes red. (See Fig. 3-1)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig. 3-4)

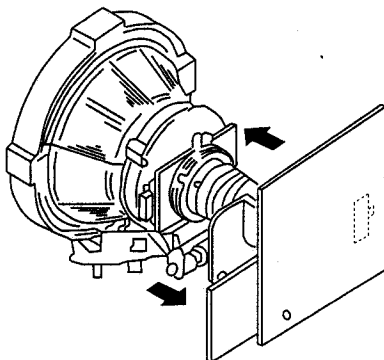


Fig. 3-1

Fig. 3-2

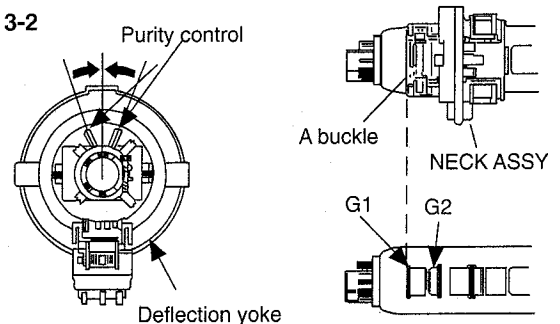


Fig. 3-3

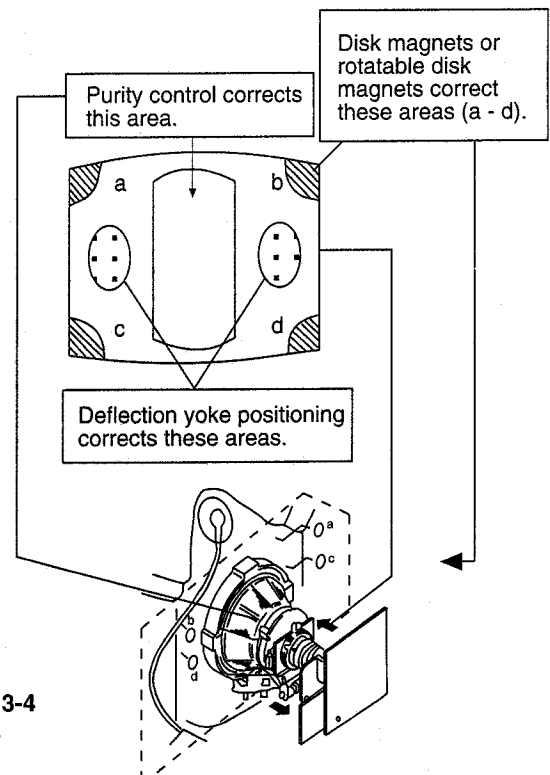
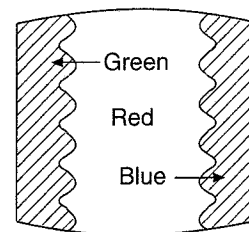


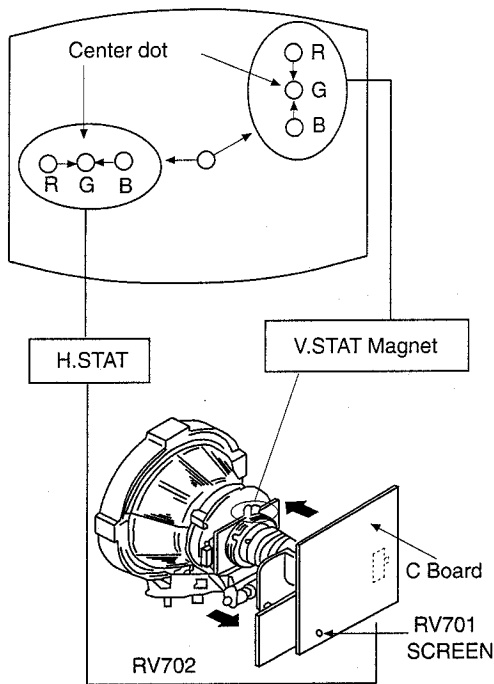
Fig. 3-4

3-2. CONVERGENCE

Preparation:

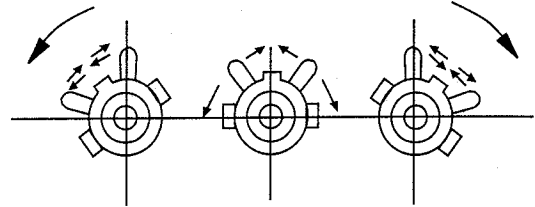
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide a dot pattern.

(1) Horizontal and vertical static convergence

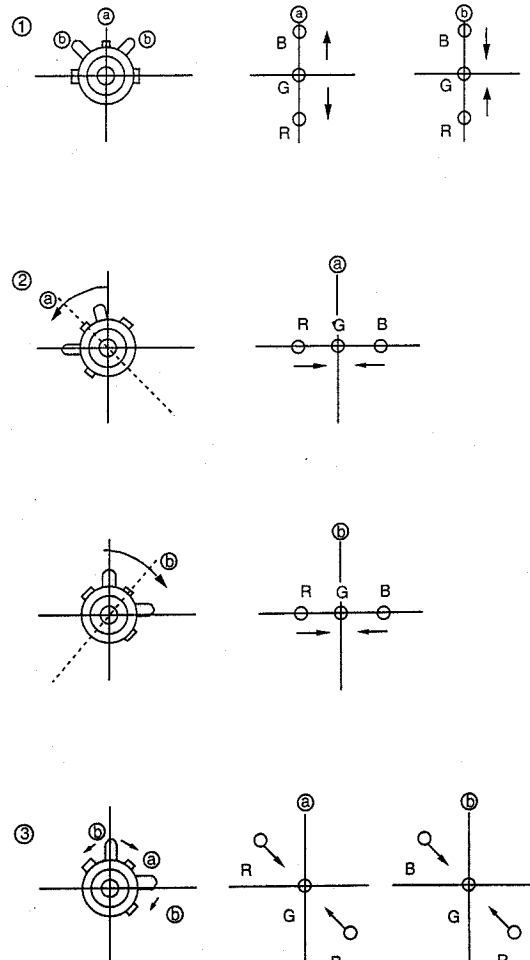


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

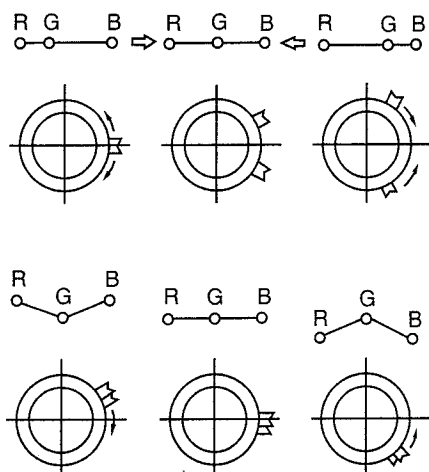
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



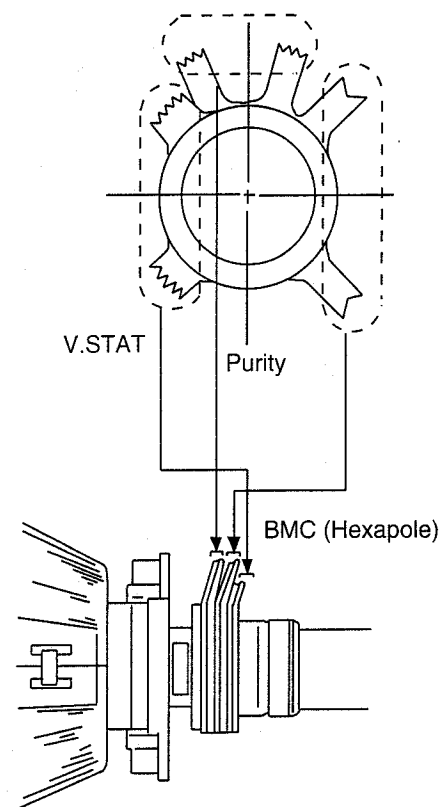
4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.



• Operation of BMC (Hexapole) Magnet



- The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of the screen (by moving the dots in the horizontal direction).

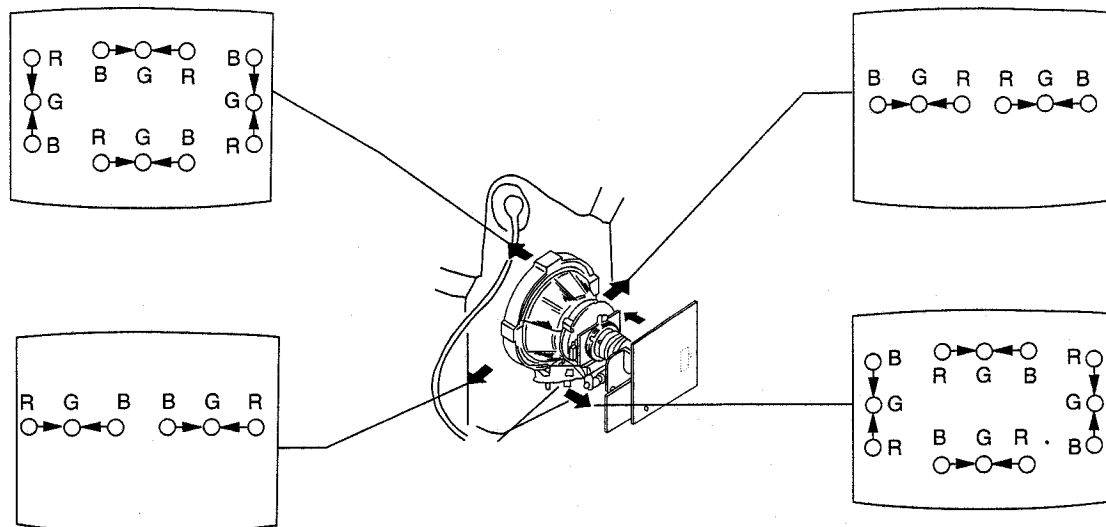


(2) Dynamic convergence adjustment.

Preparation:

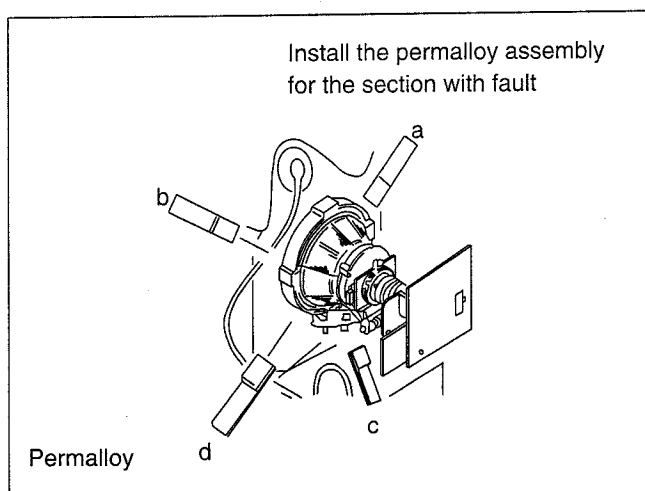
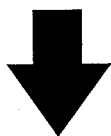
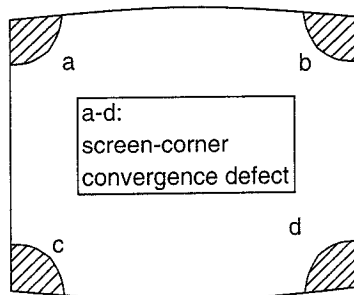
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
- Slightly loosen the deflection yoke screws.

- Remove the deflection yoke spacer.
- Move the deflection yoke as shown in the figure below and optimize the convergence.
- Tighten the deflection yoke screws.
- Re-install the deflection yoke spacer.

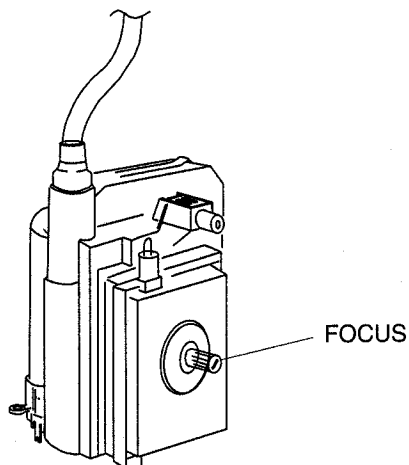


(4) Screen corner convergence.

If you are unable to adjust the corner convergence properly, correct them with the use of permalloy assemblies.

**3-3. Focus**

Adjust the focus to optimize the screen.

**3-4. WHITE BALANCE****Screen G2 Setting**

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 180V DC to the R,G, and B cathodes with an external power supply.
4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

White balance adjustment

1. Receive an all-white signal.
2. Enter into service mode. (Refer to the section 4 "Electrical Adjustment" on how to enter service mode.)
3. Select TDA8366 1 on menu.

DEVICE : TDA8366 1

STAT : 12

- ☐ NEXT
- ☐ PREVIOUS
- ☐ OK

USE COLOUR KEYS
SONY TEST MENU.

4. Press the White button on the Remote Commander to enter into the device Menu.
5. Press the Red button 10 times "Next" "Next" "Next" to select HWB RED, adjust to 32.
6. Press the Red button to select HWB GREEN, adjust with the + and - menu buttons so that the white balance becomes optimum.
7. Press the Red button to select HWB BLUE, adjust with the + and - menu buttons so that the white balance becomes optimum.
8. Press the TV button twice on the Remote Commander to store the data and return to TV operation.

For Service Manuals
MAURITRON SERVICES
8 Cherry Tree Road, Chinnor
Oxfordshire, OX9 4QY.
Tel (01844) 351694
Fax (01844) 352554
email: mauritron@dial.pipex.com

SECTION 4

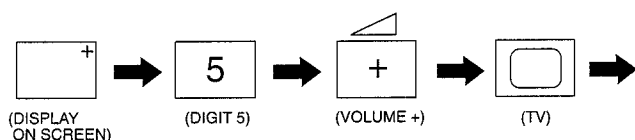
CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-833.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set and enter into standby mode.
2. Press the following sequence of buttons on the Remote Commander.



“TT” will appear in the top right corner of the screen. Other status information will also be displayed.

3. Press the MENU button on the Remote Commander to obtain the menu on the screen.

DEVICE NAME

STAT : xxxx

☐ NEXT

☐ PREVIOUS

☐ OK

USE COLOUR KEYS
SONY TEST MENU.

4. Press the Red (Next) and Green (Previous) buttons to select the device corresponding to the adjustment item from the table. Then press the White button (OK).

DEVICE NAME

00 ADJUSTMENT : xxx

☐ NEXT

☐ PREVIOUS

SELECT COL.BUTTON
CHANGE BY MENU +/-

5. Press the Red (Next) or Green (previous) buttons to select the adjustment item. Then press the  and  buttons to change the data to comply with each standard.
6. Turn off the power to quit the service mode when adjustments are completed.

Initial Conditions for setup of TDA8366, TDA6612, TDA6622 and SAA7283. (Stereo Models Only)

TDA8366 1	INIT VALUE	TDA8366 2	INIT VALUE
Hue	31	Interlace	00
H Shift	Adj	Sync Mode	00
H Size	Adj	Col Dec	00
Pin Amp	Adj	Vert Div	00
Corn Pin	Adj	Vid ID	00
Tilt	Adj	EHT Track	01
V.Linear	Adj	En V Grd	00
V.Size	Adj	Serv Blk	00
S.Corr	Adj	OVP Mode	00
V.Cent	Adj	Aspect R	00
HWB Red	Adj	Start Freq	00
HWB Green	Adj	Y/C Input	00
HWB Blue	Adj	PAL/NTSC	00
Peaking	8	Xtal PLL	00
Bright	32	Y Delay	07
Colour	32	RGB Blk	00
Picture	37	Noise Cor	00
AGC Set	00	Fast Blk	01
Src Sel 1	00	AFC Wind	00
Src Sel 2	00	IF Sensy	00
Time Con	03	Mod Std	00
Xtal Ind	03	Vid Mute	01
FF Freq	02		

TDA6612 (TDA6622 for UKmodel.)	INIT VALUE	TDA6612 (TDA6622 for UKmodel.)	INIT VALUE
MPX Per	00	Mute 2	01
Quasi St	00	C1/2LS	00
Bass Exp	00	C1/2KH	00
H Pulse	00	Mono	01
Matrix St	00	Scart	00
Bypass	00	Scart D	00
Vol L Sp	07	AM	00
Vol R Sp	07	SAA7283	INIT VALUE
Vol HP	00	Mon M1/M2	01
PII Sync	00	DM Select	01
Mute 3	01	SSWIT 123	07
Treble	08	Port 2	00
Bass	09	Mute Def	00
X Talk Adj	Adj	AMDIS	00
Mute 1	00	E Max	80
		E Min	01

4-2. TEST MODE 2 :

Is available by pressing Test button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test Mode 2, press 0 twice, or switch the TV into Stand-by Mode.

00	switch Test Mode 2 off
01	picture maximum
02	picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Ageing Condition (Volume min., Picture max., Brightness max.)
08	Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off)
09	"Menu" Flag request
10	Tenth entry is deleted
11	dummy
12	dummy
13	dummy
14	Forced AV 16:9 detection on/off
15	Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory)
16	Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM.
17	Preset Label for AV Sources
18	RGB Priority on/off
19	Clear all preset labels
20	Tenth entry is deleted
21	Sub Contrast
22	Sub Colour
23	Sub Brightness
24	Set destination = U RGB Priority = Off
25	Set destination = D RGB Priority = Off
26	Set destination = B RGB Priority = On
27	Set destination = K RGB Priority = Off
28	Set destination = L RGB Priority = Off
29	Set destination = E RGB Priority = Off

30	Tenth entry is deleted
31	Set Destination = A RGB Priority = On
32	dummy
33	Auto AGC
34	N/S Pin Adjust
35	Manual AGC Adjust
36	dummy
37	dummy
38	To Activate Rotation Coil Adjustment
39	'Check Rotation Coil Adjustment
40	Tenth entry is deleted
41	Re-initialise NVM
42	Production use only
43	Initialise Geom Settings
44	Initialise all favorite pages = 100
45	Channel locks = off
46	IR Channel Presetting Mode The channel presetting can be done by a Special IR Transmitter (Ver 2 and above software only)
47	dummy
48	Set NVM testbyte to 44h
49	Erase the NVM Testbyte (this byte detects already stored NVM's) After selecting this function, switch TV Off and On -> the NVM will be preset by μ -Controller.

In Test Mode the Menu display is switchable by the Speaker-Off button.

Note : For Test Modes 41 - 49 it is necessary to ensure that the TV is set to Prog 59.

SUB BRIGHTNESS ADJUSTMENT

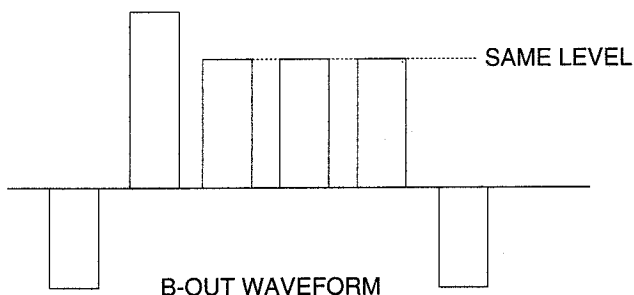
1. Input a Phillips pattern.
2. Enter into service mode and press 23.
3. Adjust data so that 0-IRE of grey scale and CUT-OFF 20-IRE are only slightly visible on screen.

SUB CONTRAST ADJUSTMENT

1. Input a video that contains a small 100% area on a Black Background.
2. Enter into service mode and press 01 to have PIC max followed by 21.
3. Connect oscilloscope to pin ① of CN703 (R OUT) and adjust HWB Red data of TDA8366 1 to obtain 2.3Vp-p.

SUB COLOR ADJUSTMENT

1. Input a PAL color bar signal.
2. Connect an oscilloscope to pin ③ of CN703 (B OUT) on the C board.
3. Enter into service mode and press 22.
4. Adjust data so that the right sides of the waveform are set to the same level.

**STEREO SEPARATION ADJUSTMENT**

1. Input a 1KHz stereo signal to the L-ch and a 400Hz stereo signal to the R-ch.
2. Enter into service mode and select the "Test Menu" to be TDA6612. (TDA6622 UK Models)
3. Select the Stereo Xtalk Adjustment Menu, by using the Red (Next) and Green (Previous) buttons.
4. Monitor the Scart 1 L-channel output and adjust the data so that the R-channel sound is not detected in the L-channel.

I.F. COIL ADJUSTMENT (T101) - B/G, D/K, I AND L STANDARD FOR CONTINENTAL MODELS.

1. Apply a 38.9MHz signal at 100dBuV to the input of SWF101.
2. Receive a channel so that the I.C. is selected for negative modulation.
3. Measure the voltage at the AFT test point and adjust (T101) to obtain 2.4V +/- 0.2V.

I.F. COIL ADJUSTMENT (T101) - I, STANDARD FOR U.K. MODELS.

1. Apply a 39.5MHz signal at 100dBuV to the input of SWF101.
2. Receive a channel so that the I.C. is selected for negative modulation.
3. Measure the voltage at the AFT test point and adjust (T101) to obtain 2.4V +/- 0.2V.

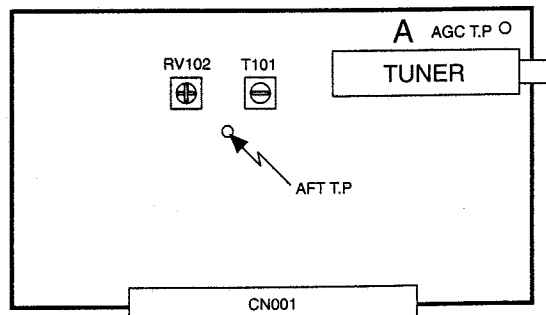
L, BAND 1 ADJUSTMENT (RV102) - L, STANDARD FOR FRENCH MODELS.

1. Apply a 33.95MHz signal at 100dBuV to the input of SWF101.
2. Receive a channel so that the I.C. is selected for positive modulation and system L band 1.
3. Measure the voltage at the AFT test point and adjust (RV102) to obtain 2.4V +/- 0.2V.

Note : Only adjust RV102 after T101 has been correctly adjusted.

AGC ADJUSTMENT

1. Receive an off- air signal.
2. Enter the service mode, ("Test" "Test") and 35.
3. Adjust the data so that there is no snow or cross - modulation visible on the screen.
4. Change the receiving off-air channel, and confirm the above status.

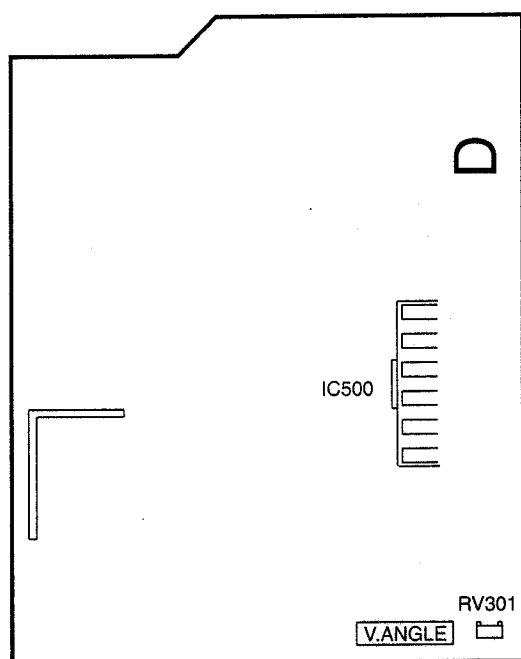


DEFLECTION SYSTEM ADJUSTMENT

1. Enter into service mode.
2. Select and adjust each item in order to obtain the optimum image.

Item No	Adjustment item.	Data Amount
03	H SHIFT	ADJ.
04	H SIZE	ADJ.
05	PIN AMP	ADJ.
06	CORR PIN	ADJ.
07	TILT	ADJ.
08	V LINEAR	ADJ.
09	V SIZE	ADJ.
0A	S CORR	ADJ.
0B	V CENTER	ADJ.

Note : V ANGLE is adjusted by a Variable Resistor on the 'D' Board (RV301)

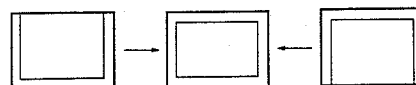


- D Board Component Side -

V SIZE



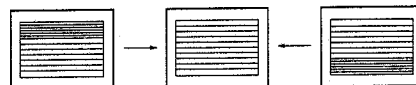
V CENTER



S CORR



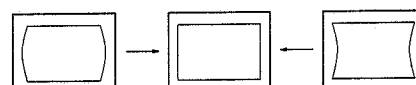
V LIN



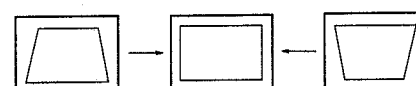
H SIZE



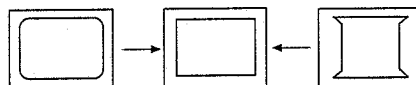
PIN AMP



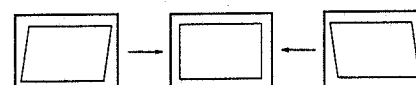
TILT



CORR PIN



V ANGLE

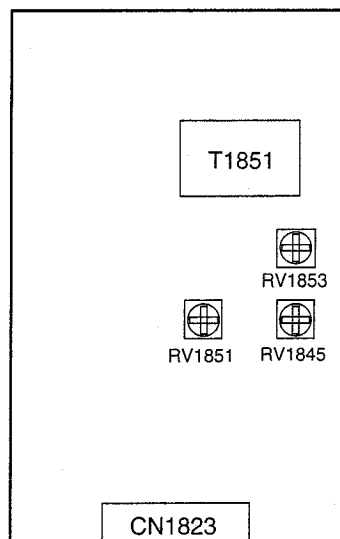


H SHIFT

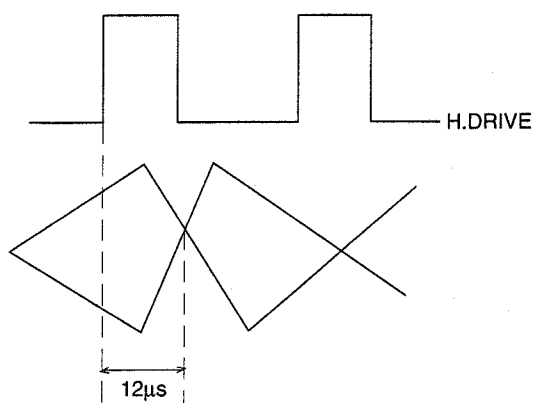
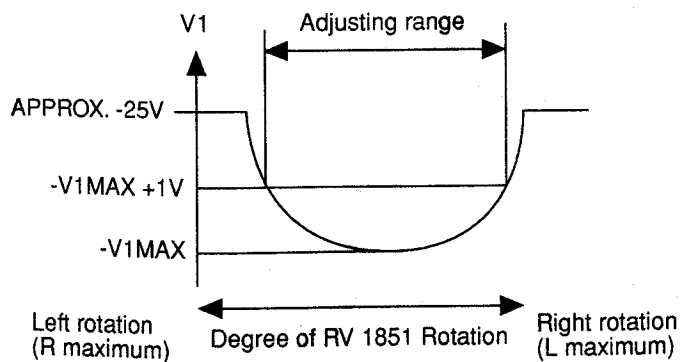


PULSE WIDTH & V-PIN ADJUSTMENTS (RV 1851/1853)

D2 BOARD



1. Connect an oscilloscope to pin 2 of T1851.
2. Preset RV-1853 to center of its range (mechanical center).
3. Adjust RV-1851 to obtain minimum amplitude.
4. Switch the oscilloscope input to D.C. and adjust RV-1853 to obtain $-33.2 \pm 0.5V$.
5. Adjust RV-1845 so that the difference between leading edge of H-drive pulse and V-pin out is $12\mu s$.



4-3. BE-3B SELF DIAGNOSTIC SOFTWARE

The identification of errors within the BE-3B chassis is triggered in 1 of 2 ways :- 1: Bus busy or 2: Device failiure to respond to IIC. In the event of one of these situations arrising the software will first try to release the bus if busy (Failiure to do so will report with continous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the led (Series of flashes which must be counted) See Table 1., on fatal errors are reported with this method.

If a fatal error is found the set will simply stay in whichever state it was when the error occurred, but if a non fatal error occurs the set will try to continue operation.

Table 1

Device	LED Error Count	Fatal Error
NVM	2 .. 9	√
Teletext	10	
Jungle	11	√
Video_sw	12	
Tuner	13	√
Nicam	14	
Audio_cont	15	√

Flash Timing Example : e.g. error number 3.

Stby LED

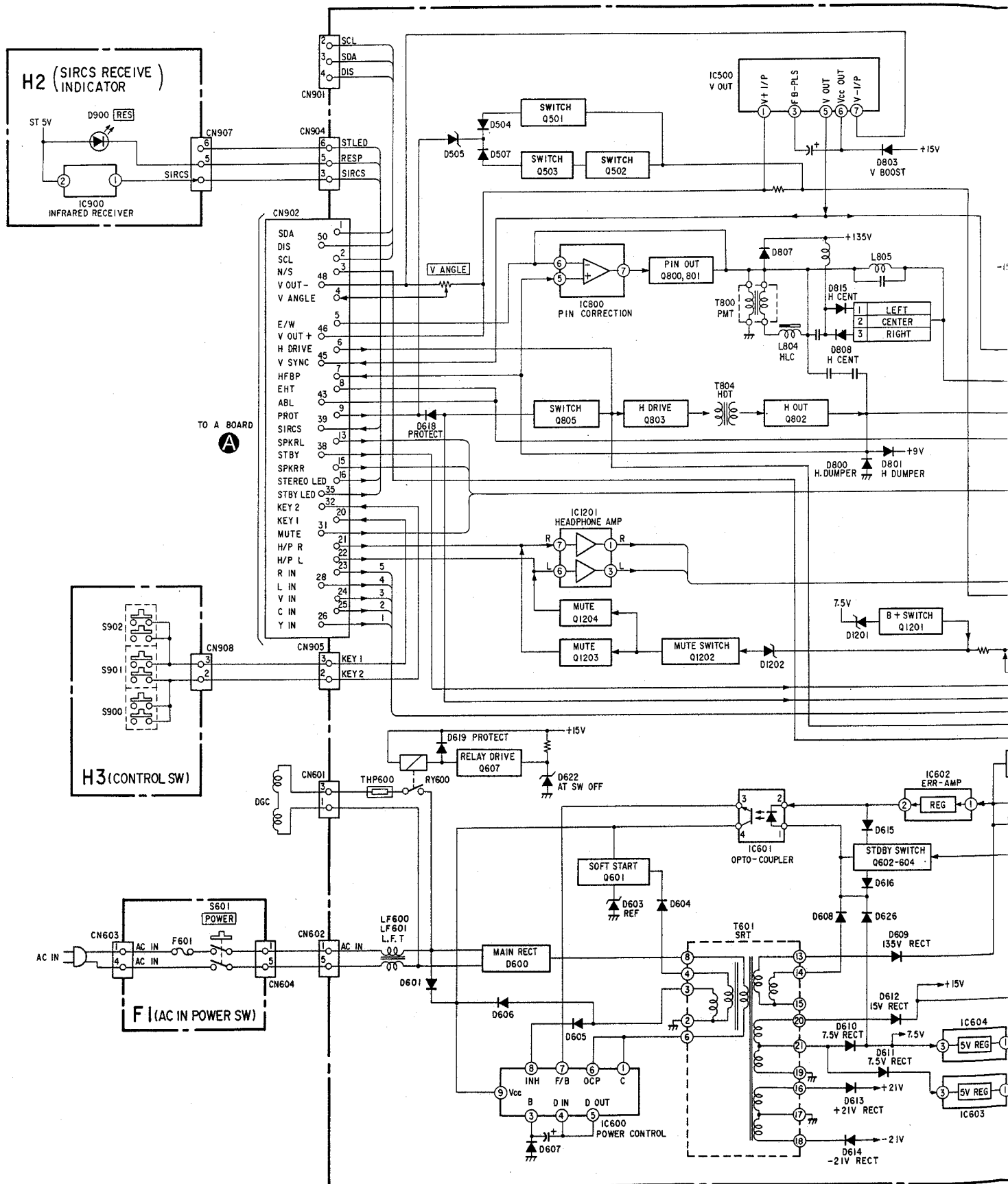


MEMO

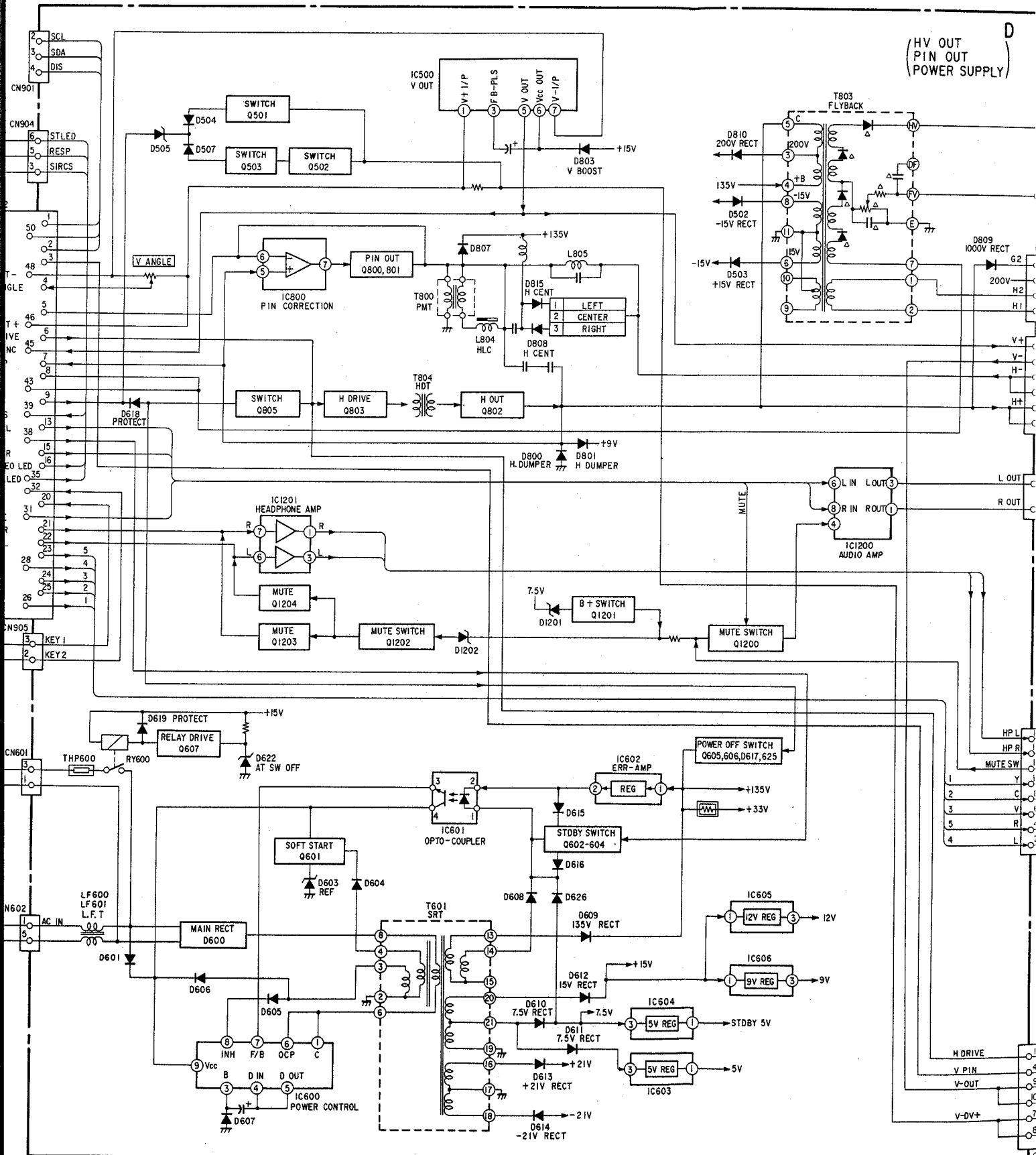
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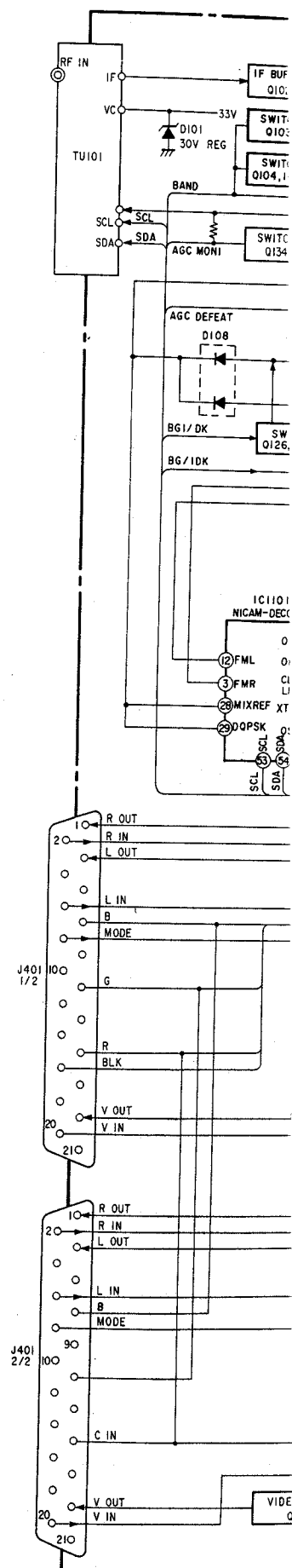
SECTION 5 DIAGRAMS

5-1. BLOCK DIAGRAM



SECTION 5 DIAGRAMS





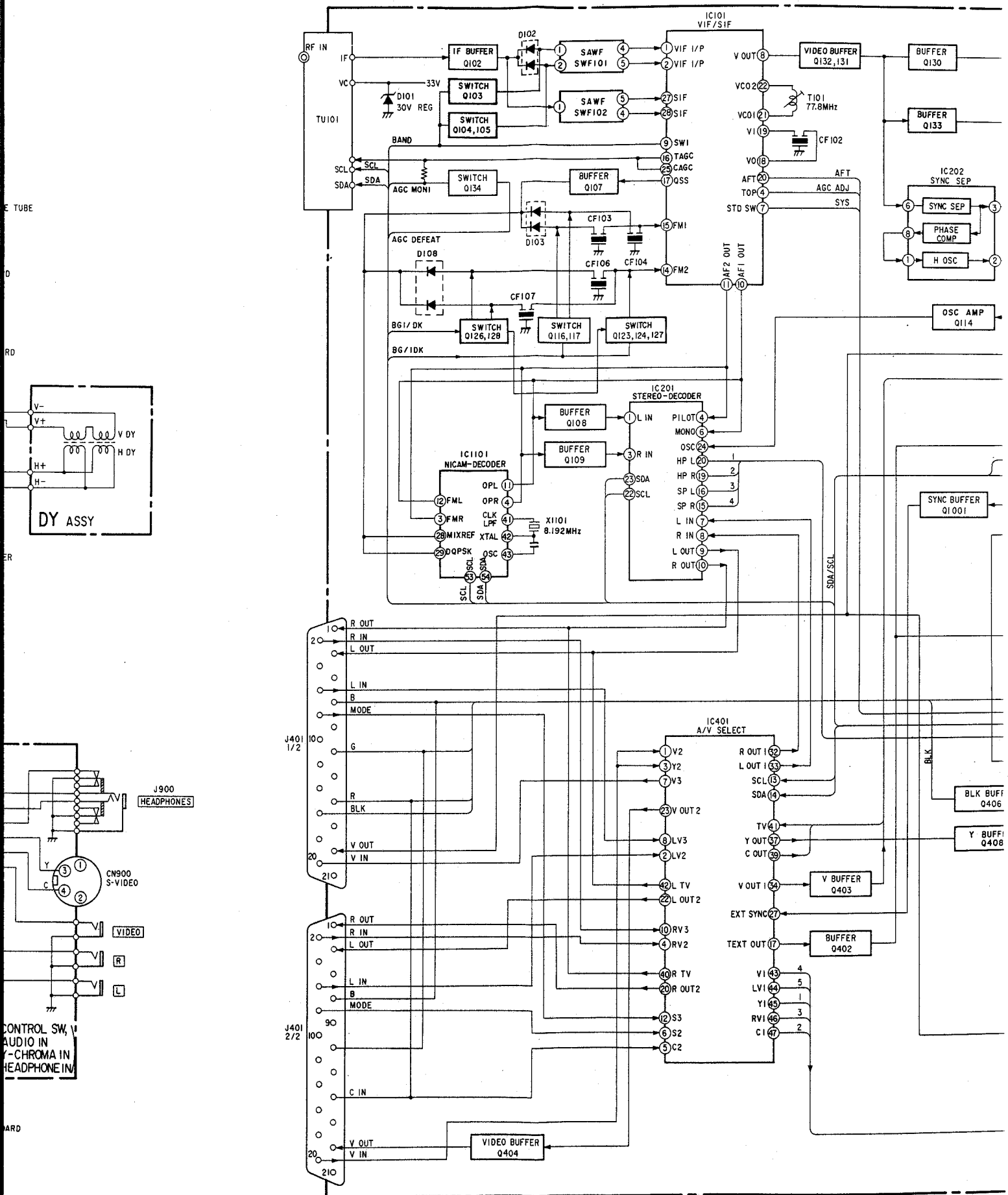
E TUBE

D

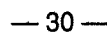
RD

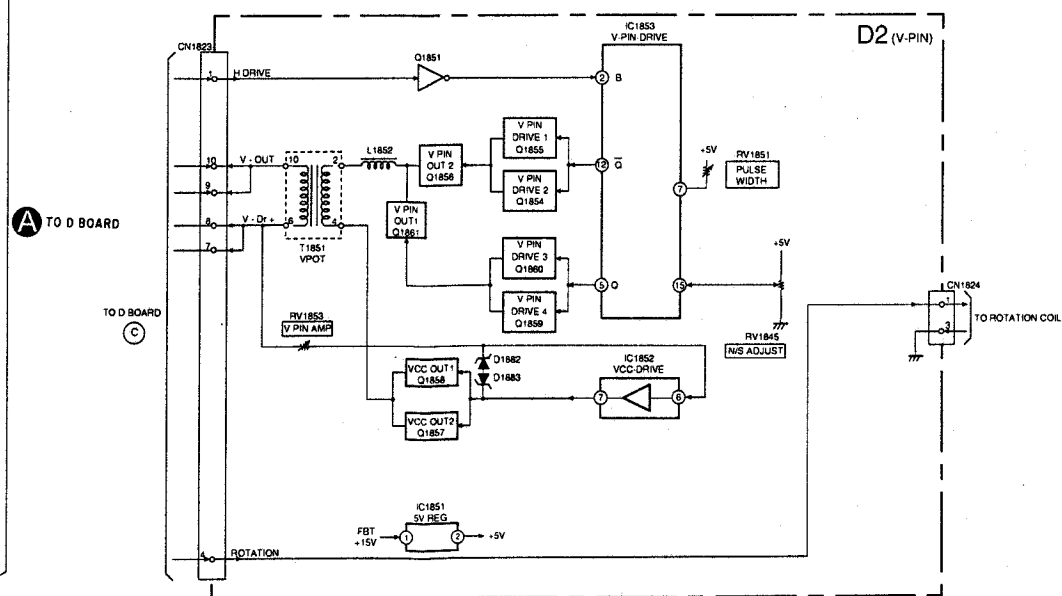
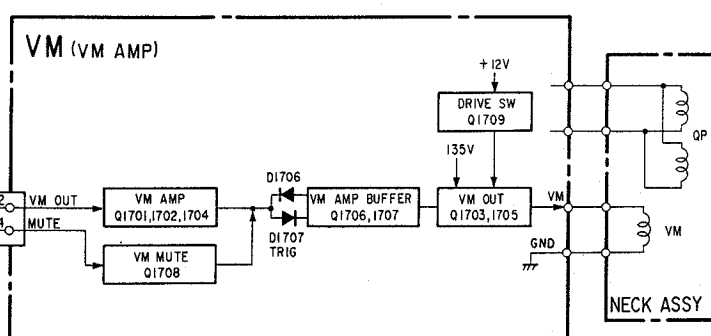
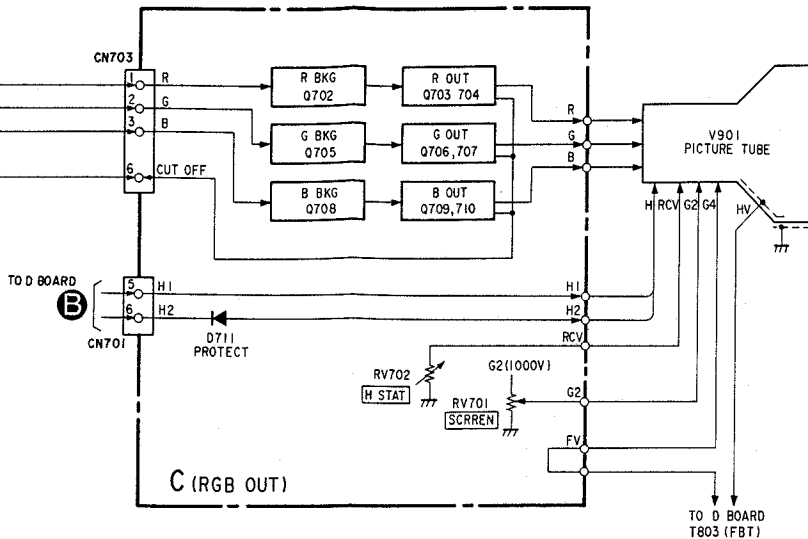
ER

ARD









1

2

3

4

5

6

A

B

C

D

E

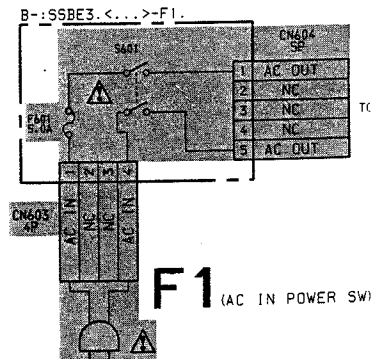
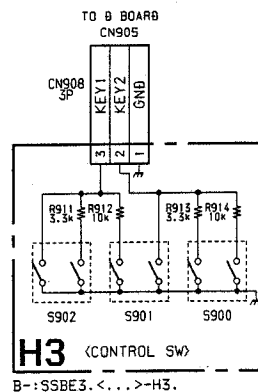
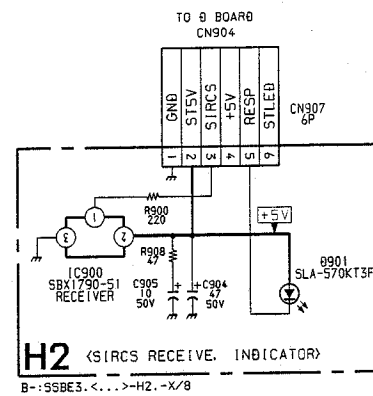
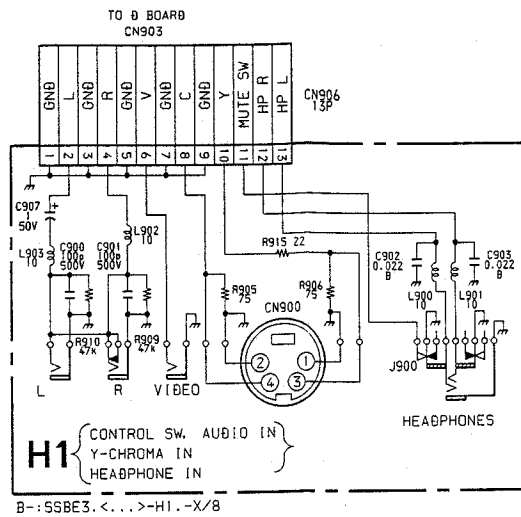
F

G

H

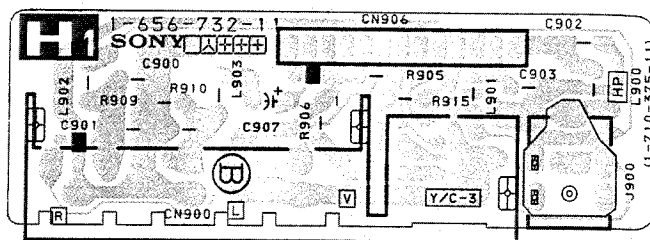
I

J

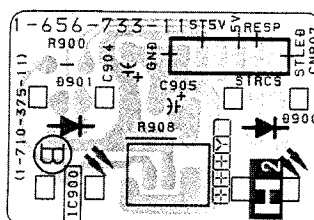


H1[CONTROL SW, AUDIO IN
Y-CHROMA IN, HEADPHONE IN]**H2**[SIRCS RECI
INDICATOR

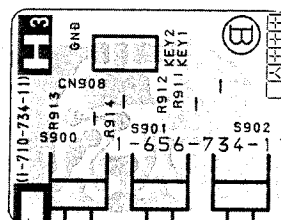
— H1 BOARD —



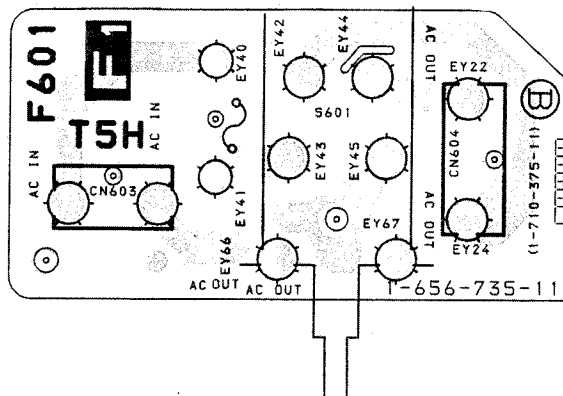
— H2 BOARD —



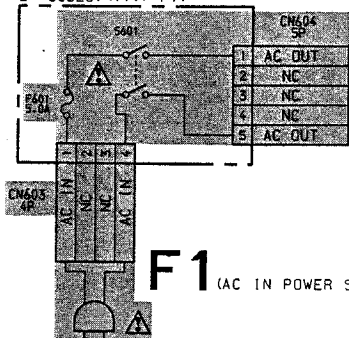
— H3 BOARD —



— F1 BOARD —



B-SSBE3.<...>-F1.



For Service Manuals
MAURITRON SERVICES
 8 Cherry Tree Road, Chinnor
 Oxfordshire, OX9 4QY.
 Tel (01844) 351694
 Fax (01844) 352554
 email:- mauritron@dial.pipex.com

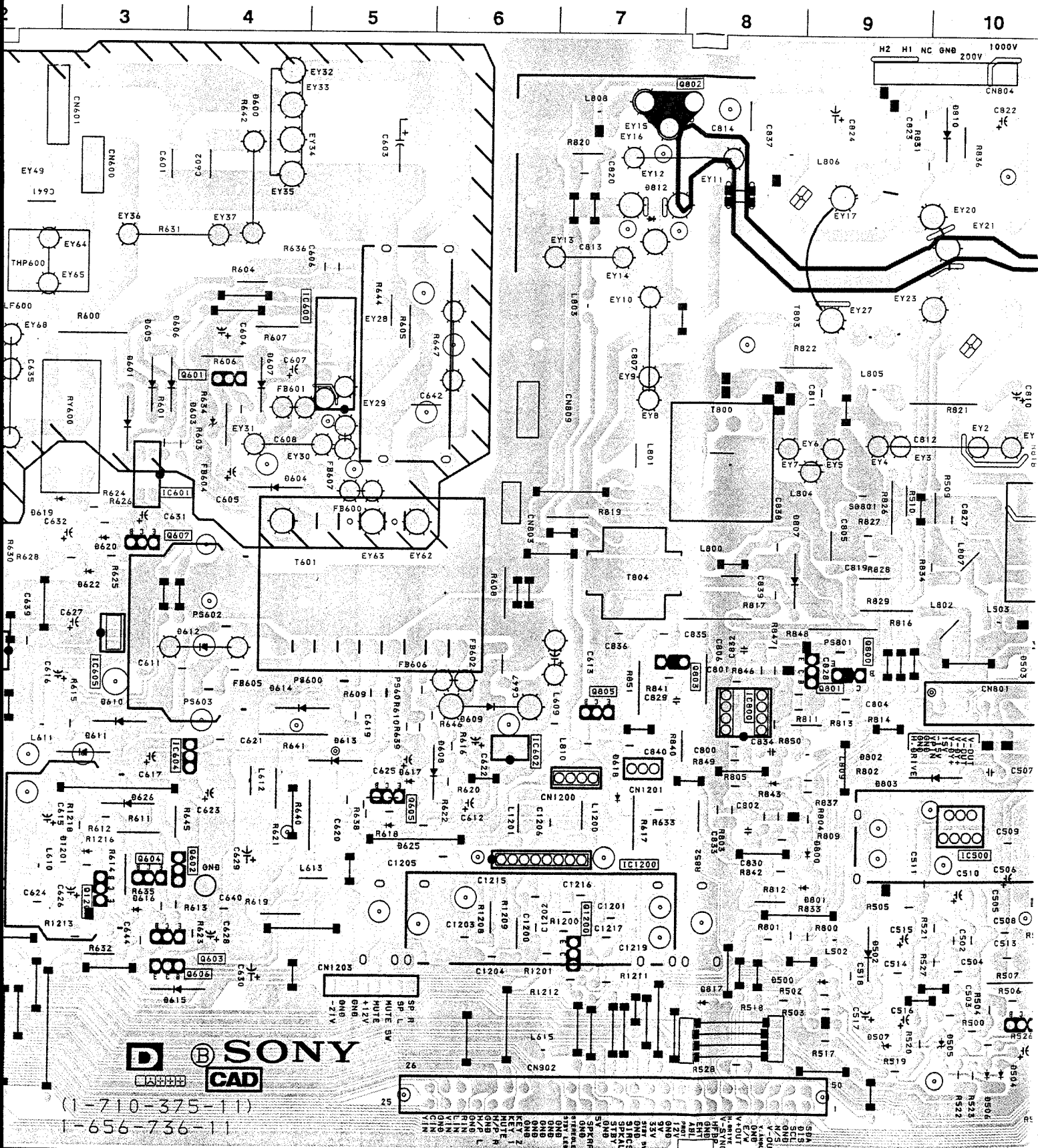
HV OUT
PIN OUT
POWER

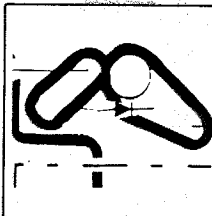
F1

D

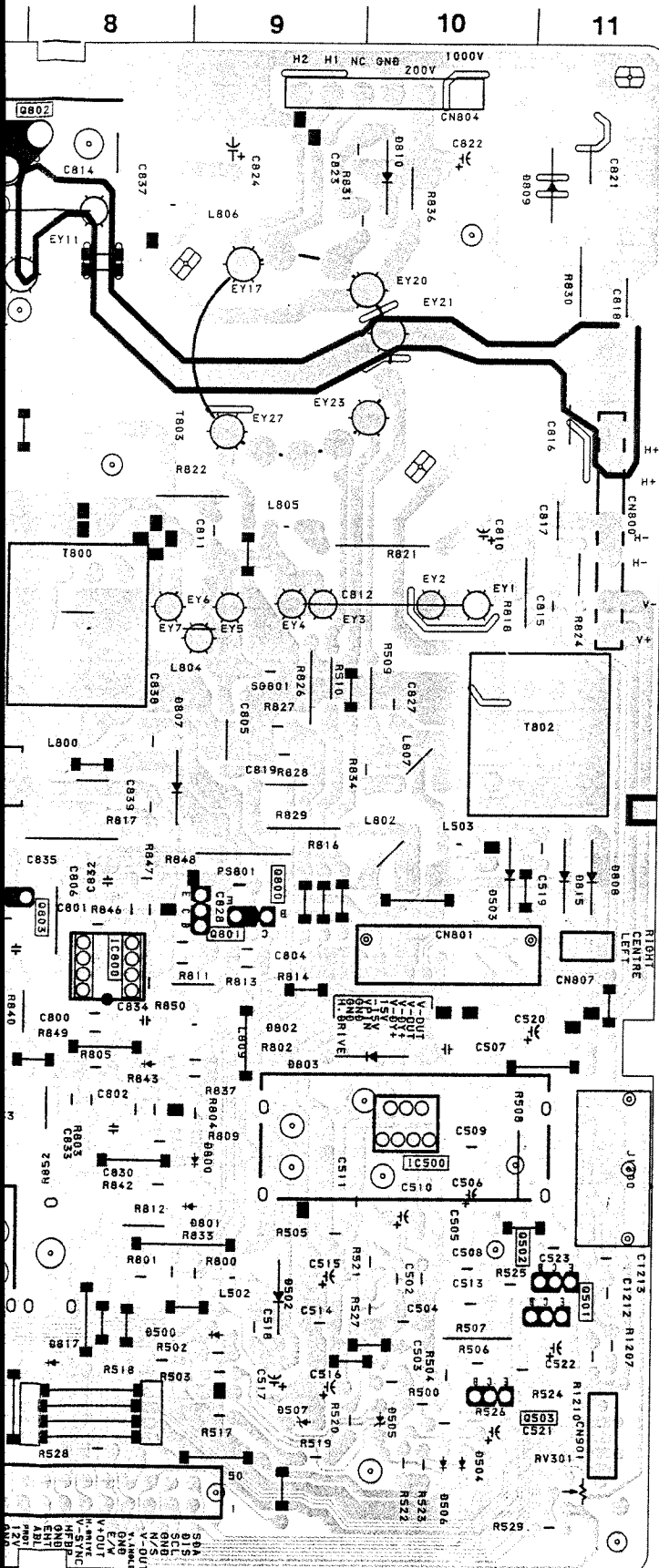
HV OUT
PIN OUT
POWER SUPPLY

OL SW] [AC IN POWER SW]

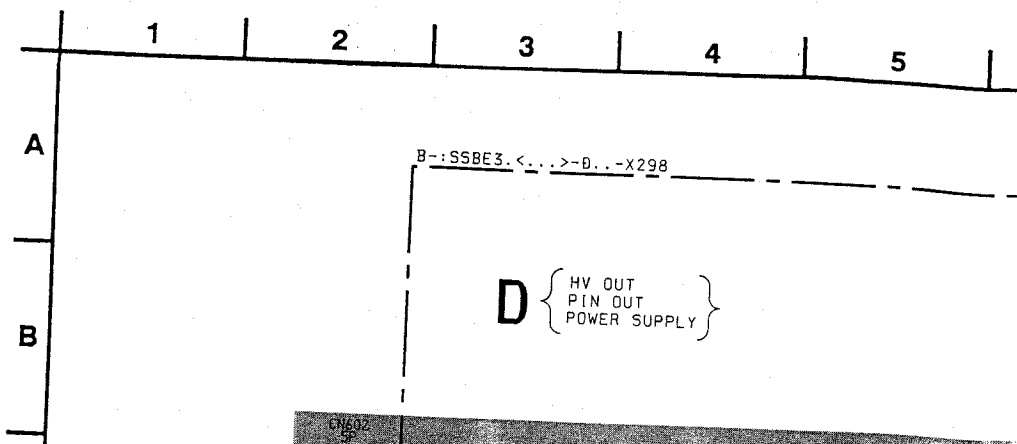


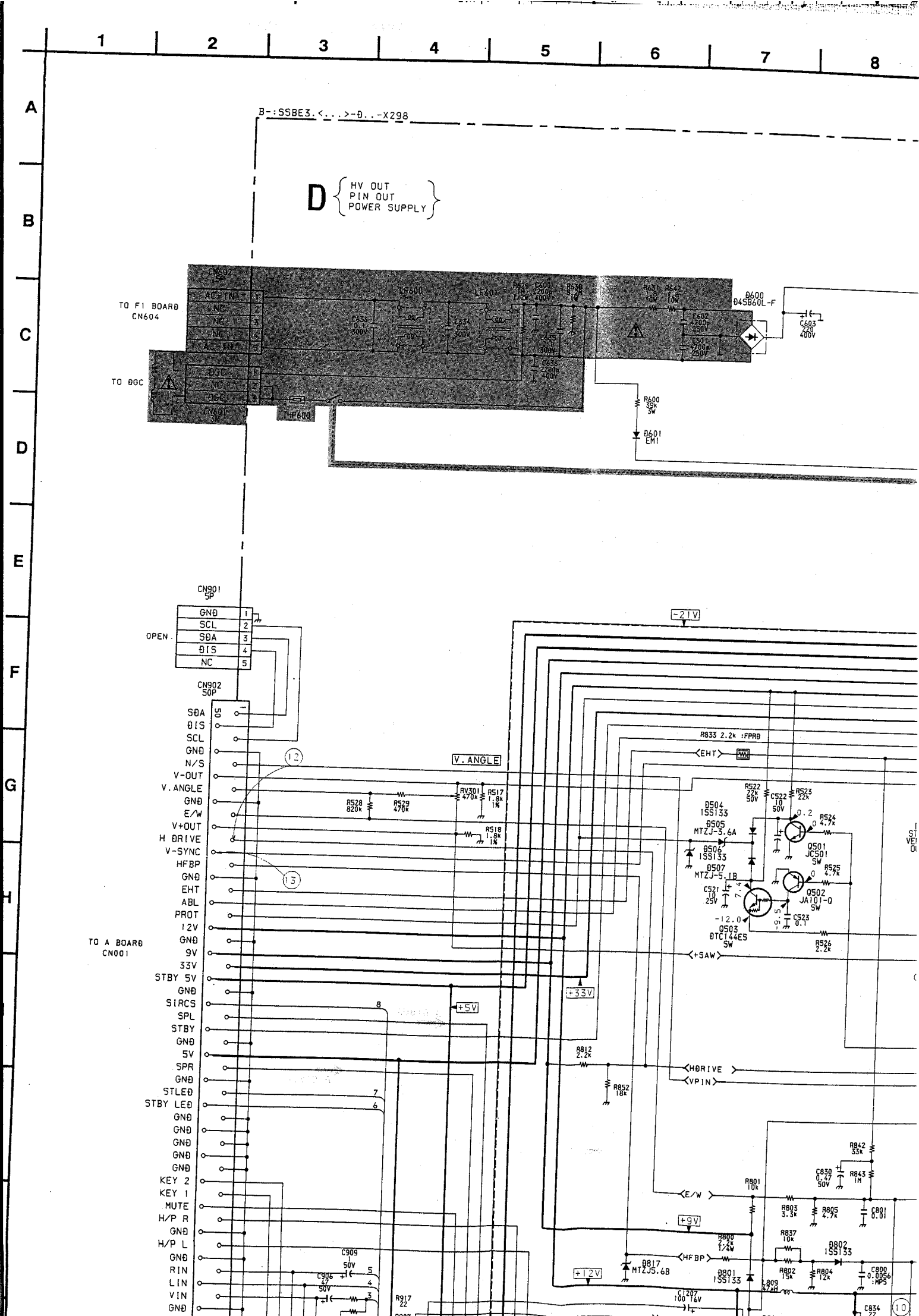
**NOTE:**

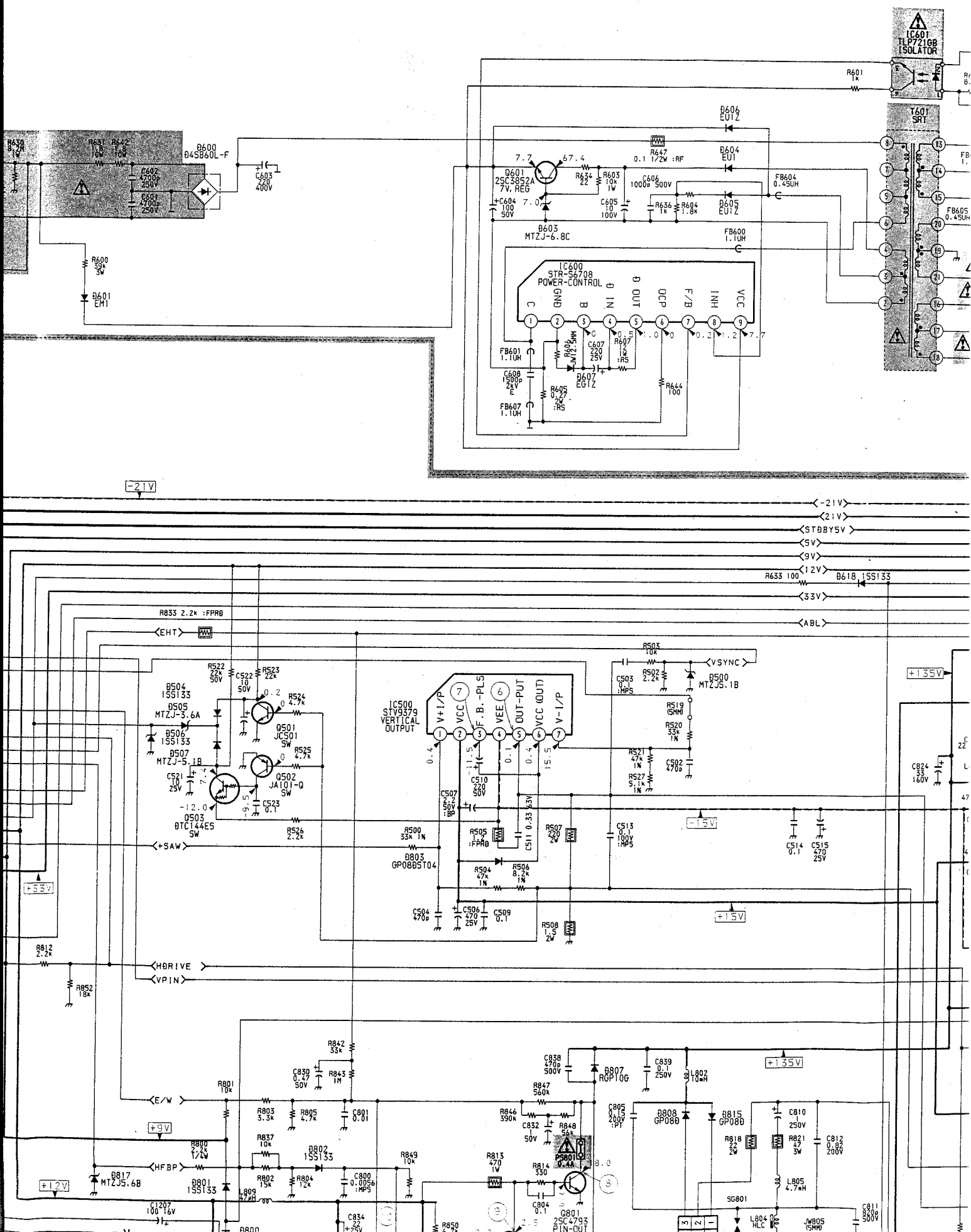
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

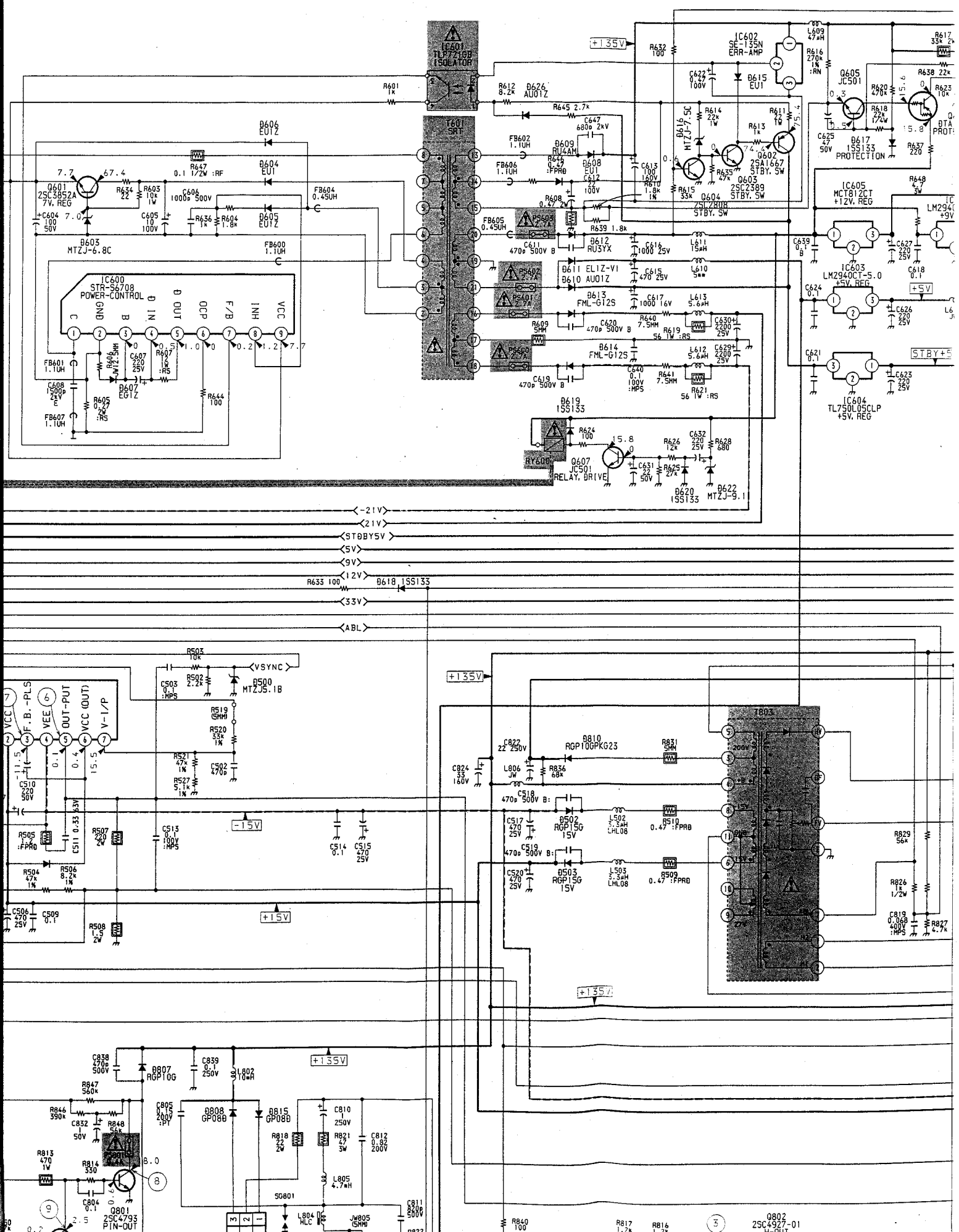
**— D BOARD —**

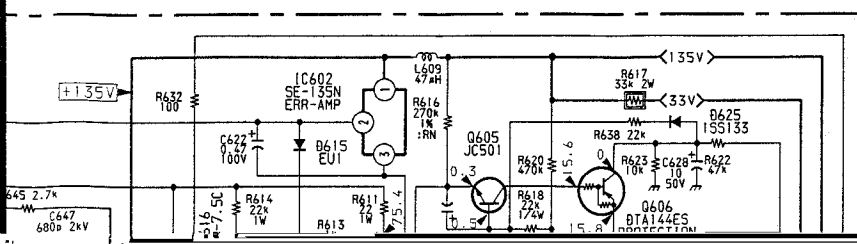
IC		D600	A-4
IC500	G-10	D601	D-3
IC600	C-5	D603	D-4
IC601	D-3	D604	D-4
IC602	F-6	D605	C-3
IC603	G-2	D606	C-3
IC604	F-4	D607	C-4
IC605	E-3	D608	F-6
IC606	E-2	D609	F-6
IC800	F-8	D610	F-3
IC1200	G-7	D611	F-3
IC1201	F-1	D612	E-4
TRANSISTOR		D613	F-5
Q501	H-11	D614	F-4
Q502	H-11	D615	H-4
Q503	H-10	D616	G-3
Q601	C-4	D617	F-5
Q602	G-4	D618	F-7
Q603	H-3	D619	D-2
Q604	G-3	D620	E-3
Q605	G-5	D622	E-3
Q606	H-3	D625	G-5
Q607	E-3	D626	G-3
Q800	E-9	D800	G-9
Q801	F-9	D801	G-9
Q802	A-8	D802	F-9
Q803	E-8	D807	E-8
Q805	F-7	D808	E-11
Q1200	H-7	D809	A-11
Q1201	G-3	D810	A-10
Q1202	G-1	D812	B-7
Q1203	G-1	D815	E-11
Q1204	G-2	D817	H-8
DIODE		D902	I-2
D500	H-9	D903	H-1
D502	H-9	D904	H-1
D503	E-10	D905	I-2
D504	I-10	D906	I-1
D505	I-10	D1201	G-3
D506	I-10	VARIABLE RESISTOR	
D507	H-9	RV301	I-11



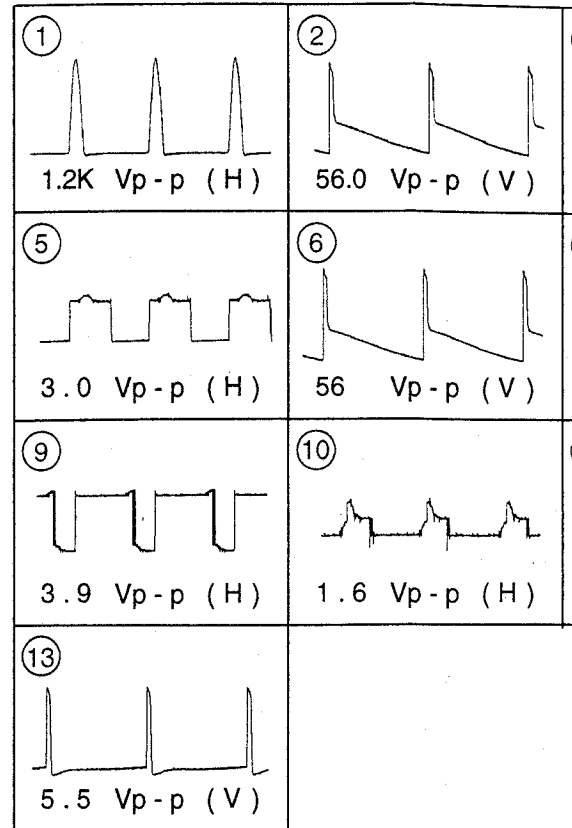




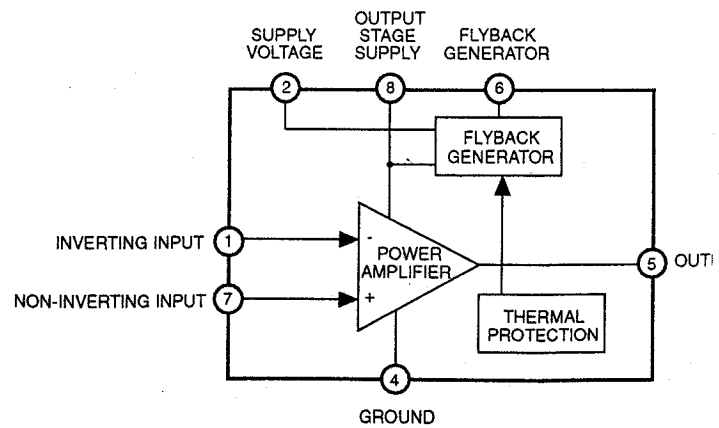




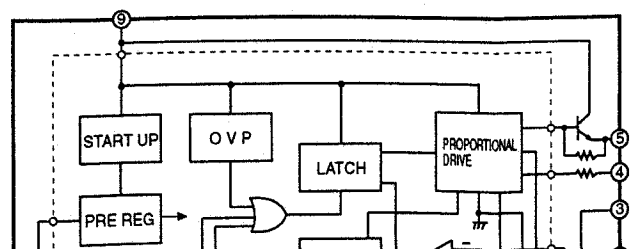
WAVEFORMS D BOARD



D BOARD IC500 STV9379



D BOARD IC600 STR-S6708



TO C BOARD
CN701

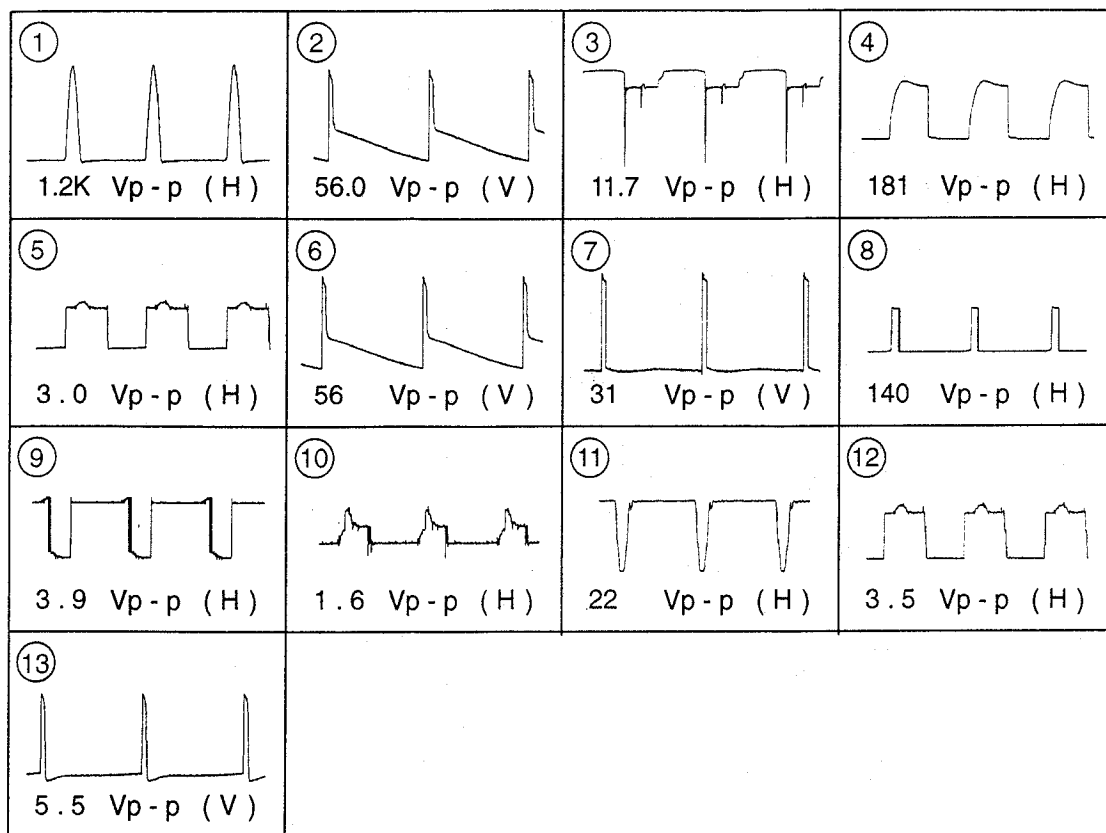
TO CRT
BOARD

TO VM BOARD
CN1819

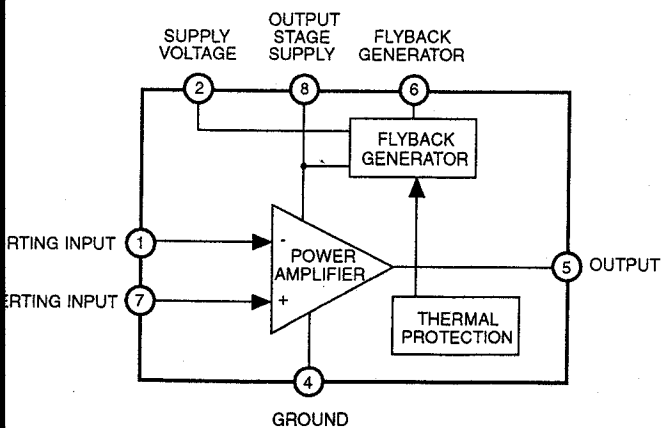
TAB (CONTACT)

TO 02 BOARD
CN1823

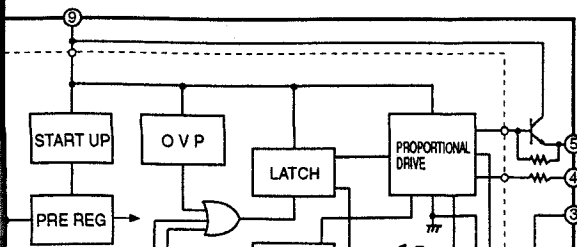
WAVEFORMS D BOARD



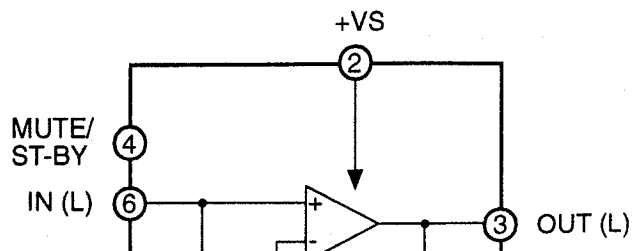
D BOARD IC500 STV9379



BOARD IC600 STR-S6708

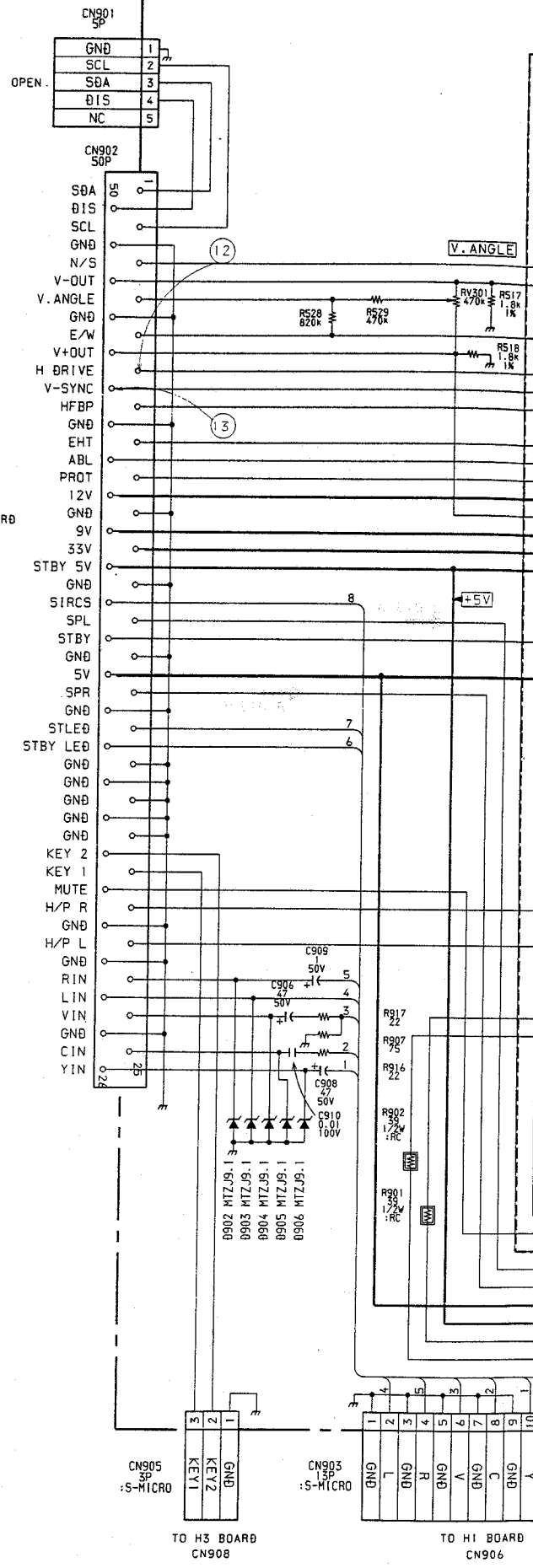


D BOARD IC1200 TDA7264



E
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TO A BOARD
CN001



CN901

GND	1
SCL	2
SBA	3
DIS	4
NC	5

CN902

50P

SBA

DIS

SCL

SBA

DIS

SCL

SBA

DIS

SCL

SBA

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-21V

V. ANGLE

<EHT>

<+SAW>

<H DRIVE>

<VPIN>

<E/W>

<+9V>

<+12V>

<HFBP>

<I_L><I_L><I_L><I_L><I_L><I_L><I_L><I_L><I_L><I_L><I_L><I_L><I_L><I_L><I_L><I_L><I_L>IC500
SIV9579
VERTICAL
OUTPUTIC500
SIV9579
VERTICAL
OUTPUTIC500
SIV9579
VERTICAL
OUTPUTIC500
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OUTPUT

CN905

S-MICRO

TO H3 BOARD

CN908

CN903

S-MICRO

TO H1 BOARD

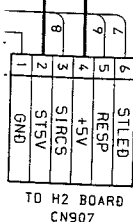
CN906

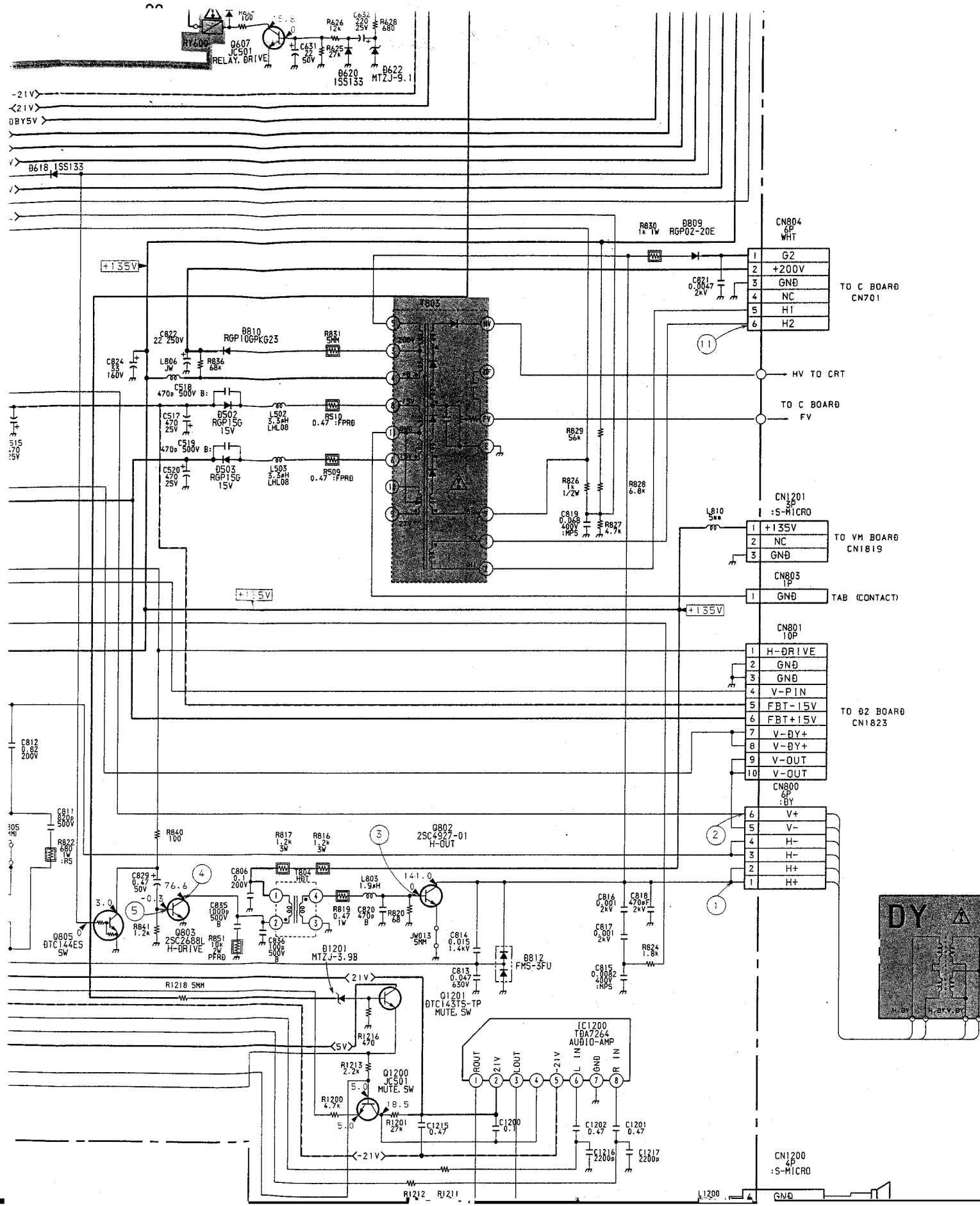
CN904

S-MICRO

TO H2 BOARD

CN907

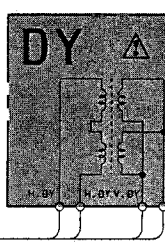




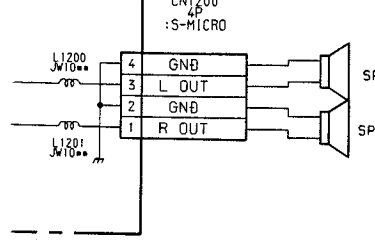
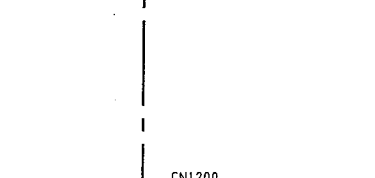
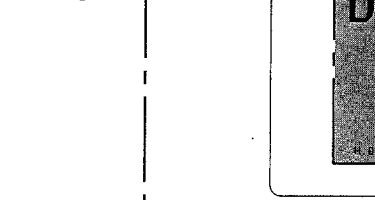
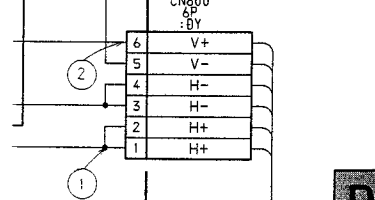
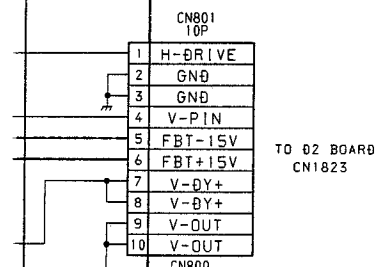
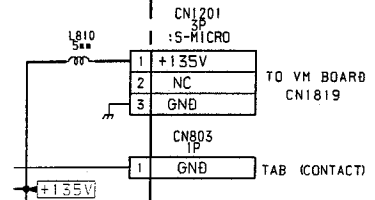
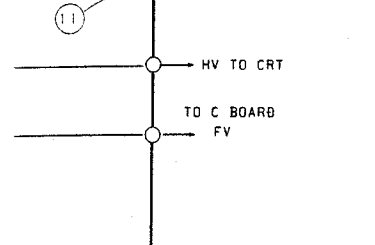
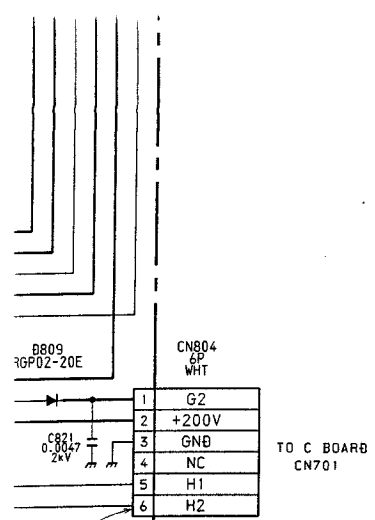
TO C BOARD
CN701

TO VM BOARD
CN1819

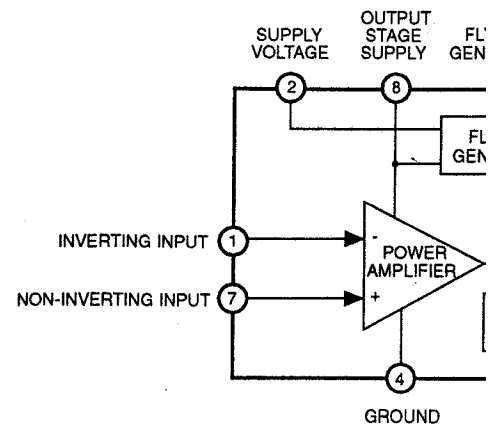
TO B2 BOARD
CN1823



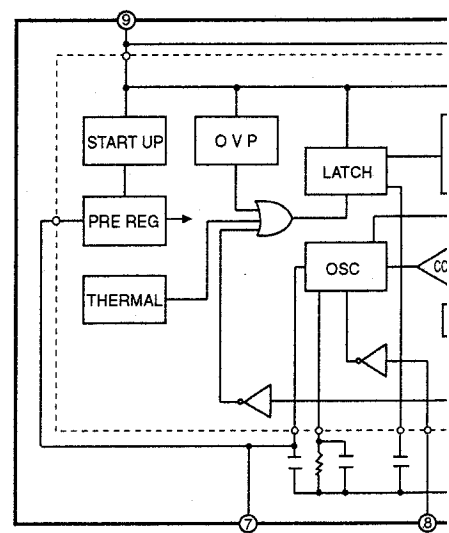
5.5 Vp-p (V)



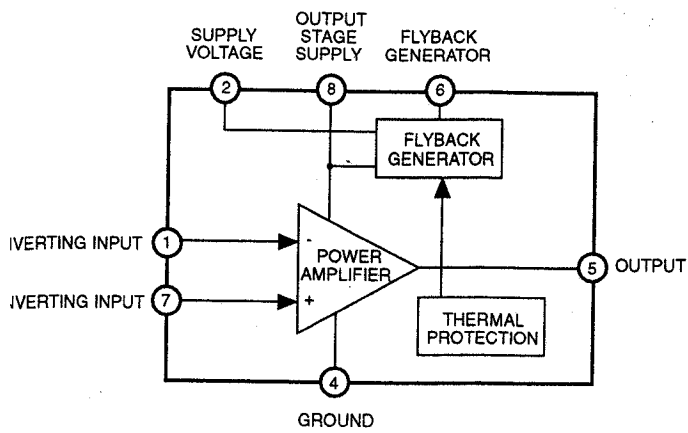
D BOARD IC500 STV



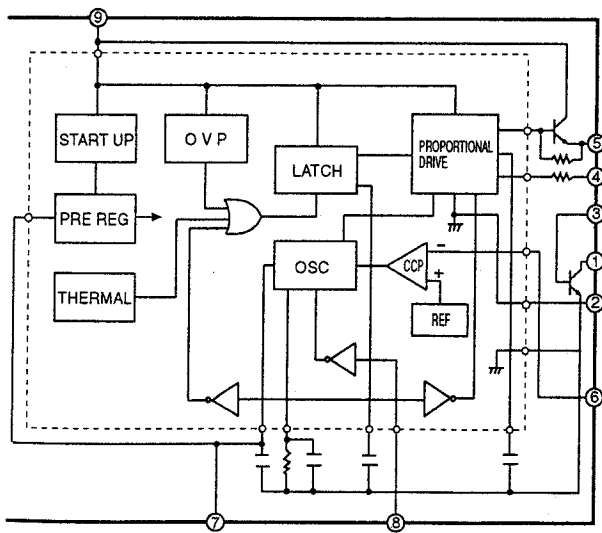
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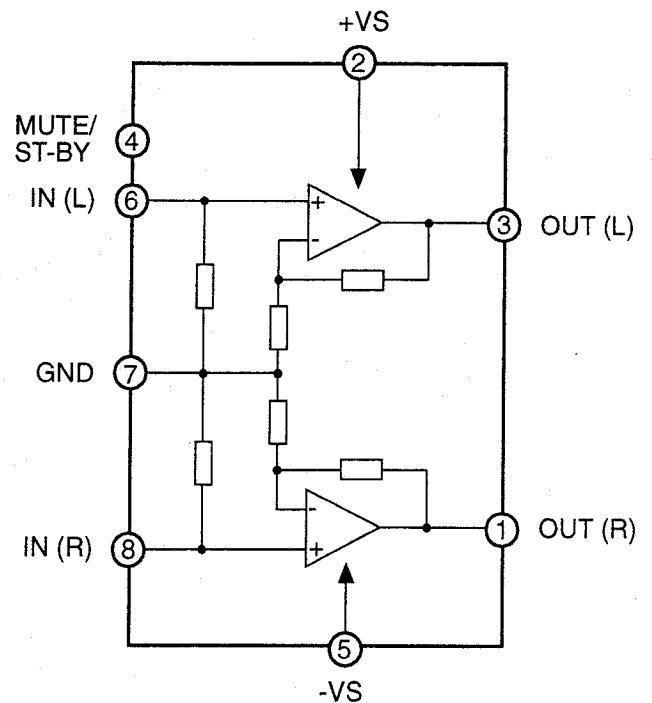
D BOARD IC500 STV9379



BOARD IC600 STR-S6708



D BOARD IC1200 TDA7264



A

B

C

D

E

F

G

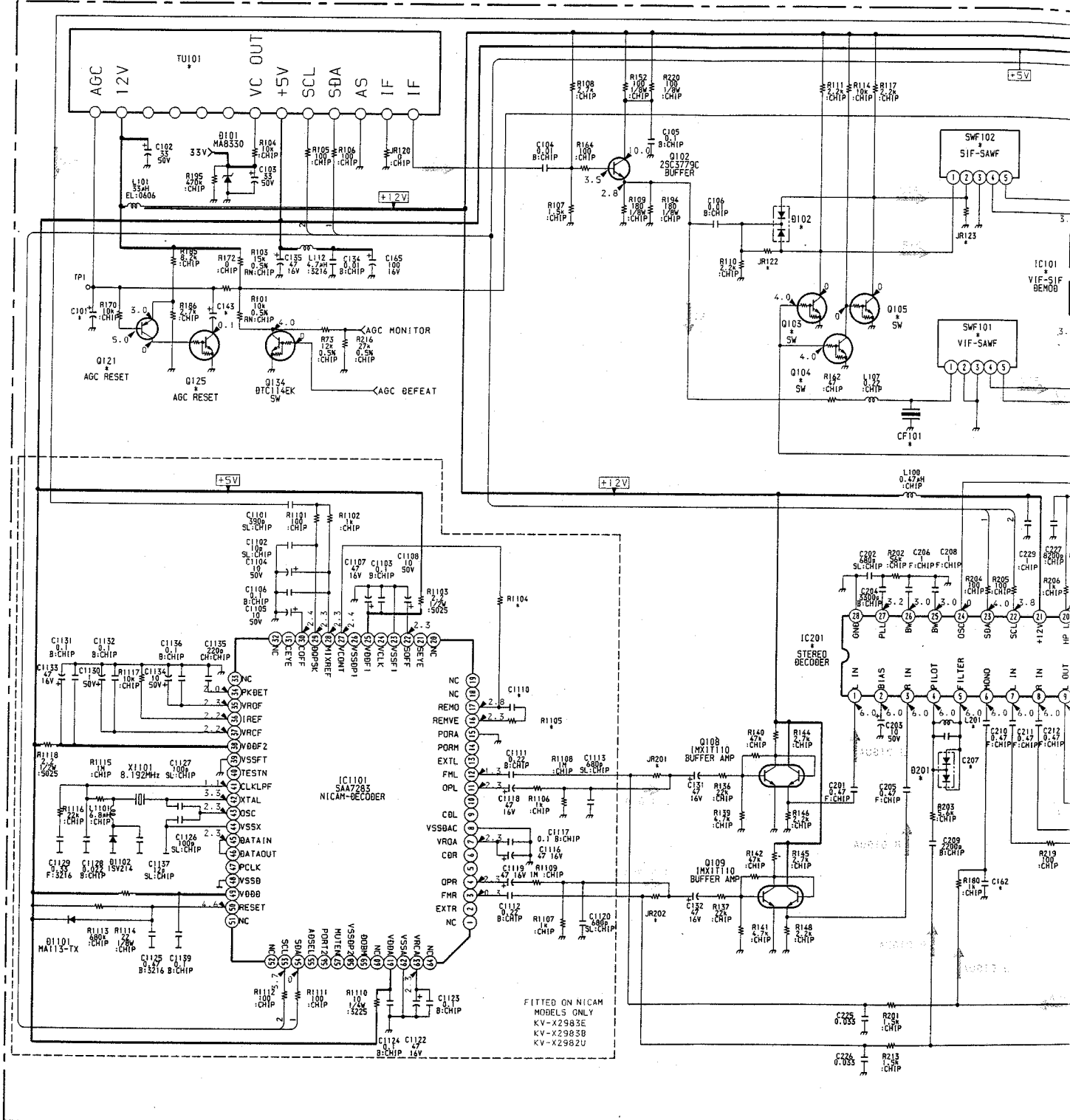
H

I

J

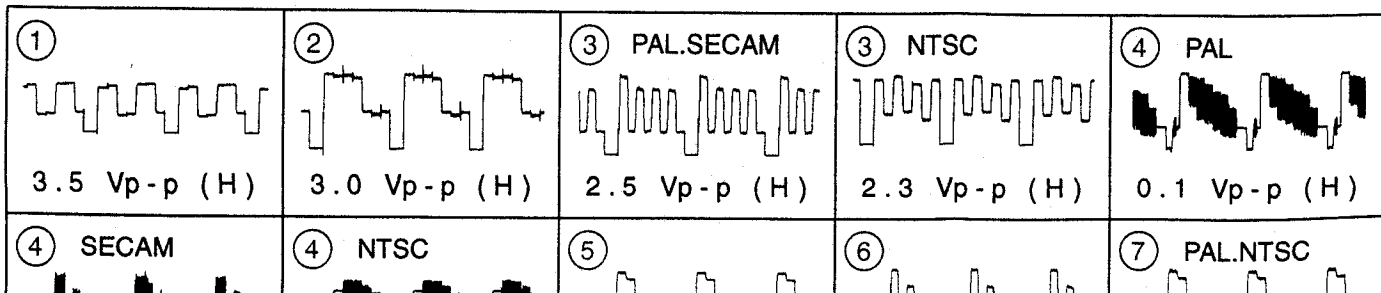
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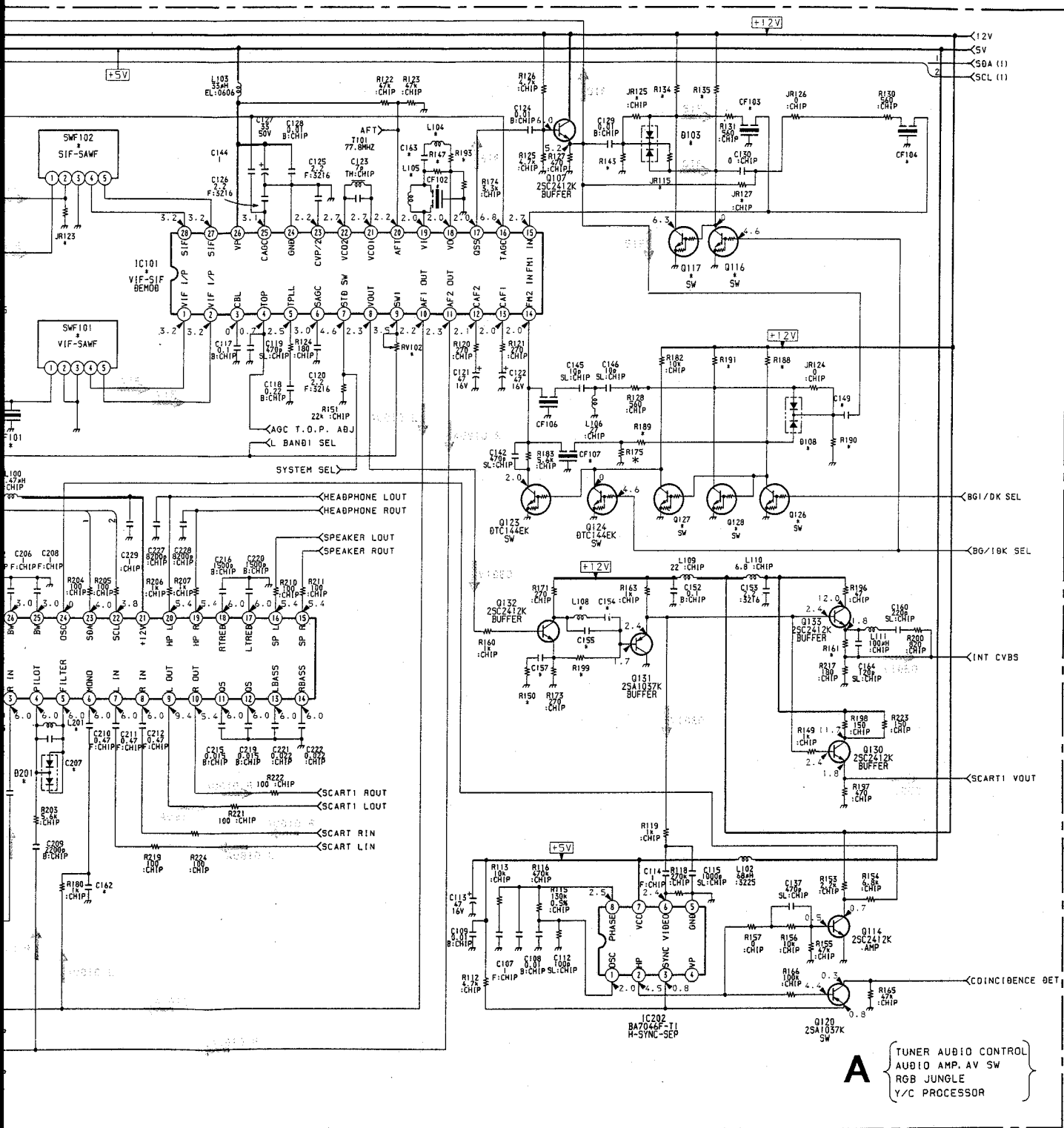
B--SSBE3.<...>-A...-X298

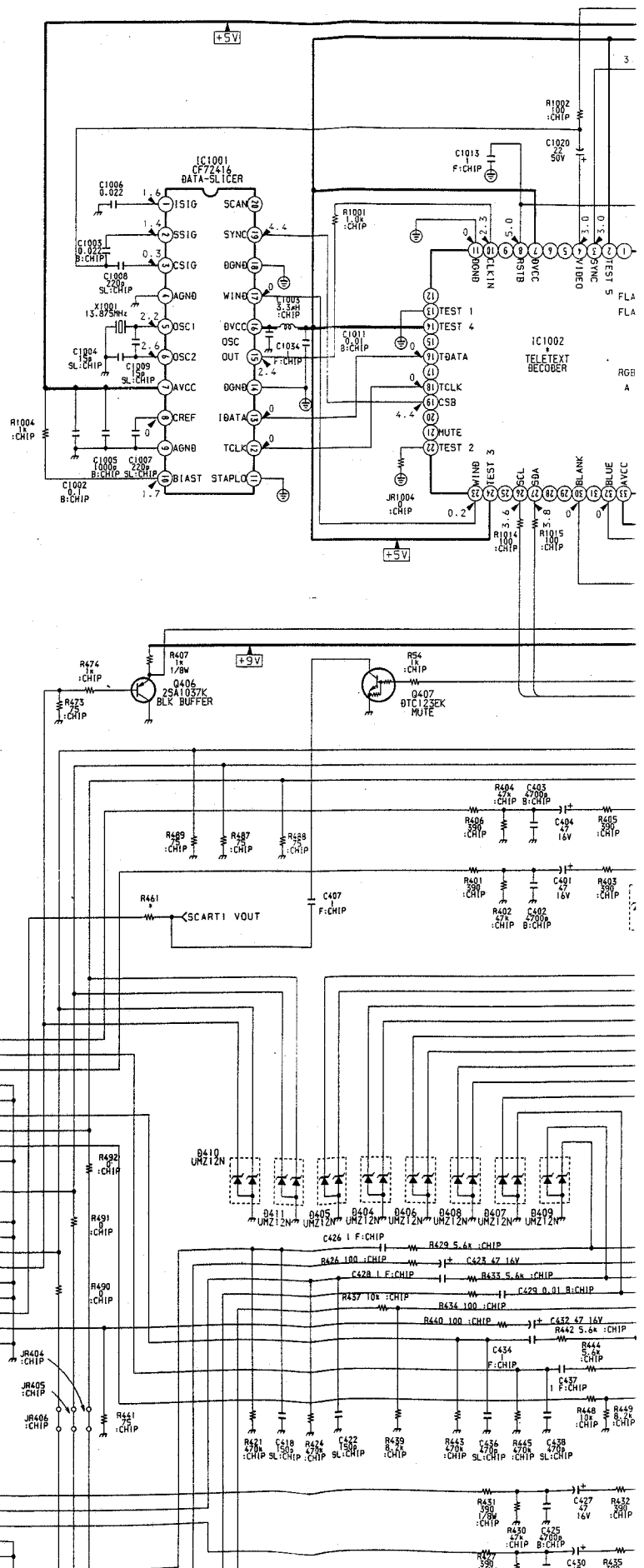
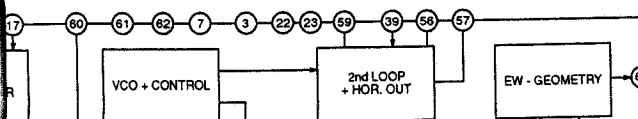


FOR VALUES OF COMPONENTS MARKED * REFER TO DIFFERENCE TABLE

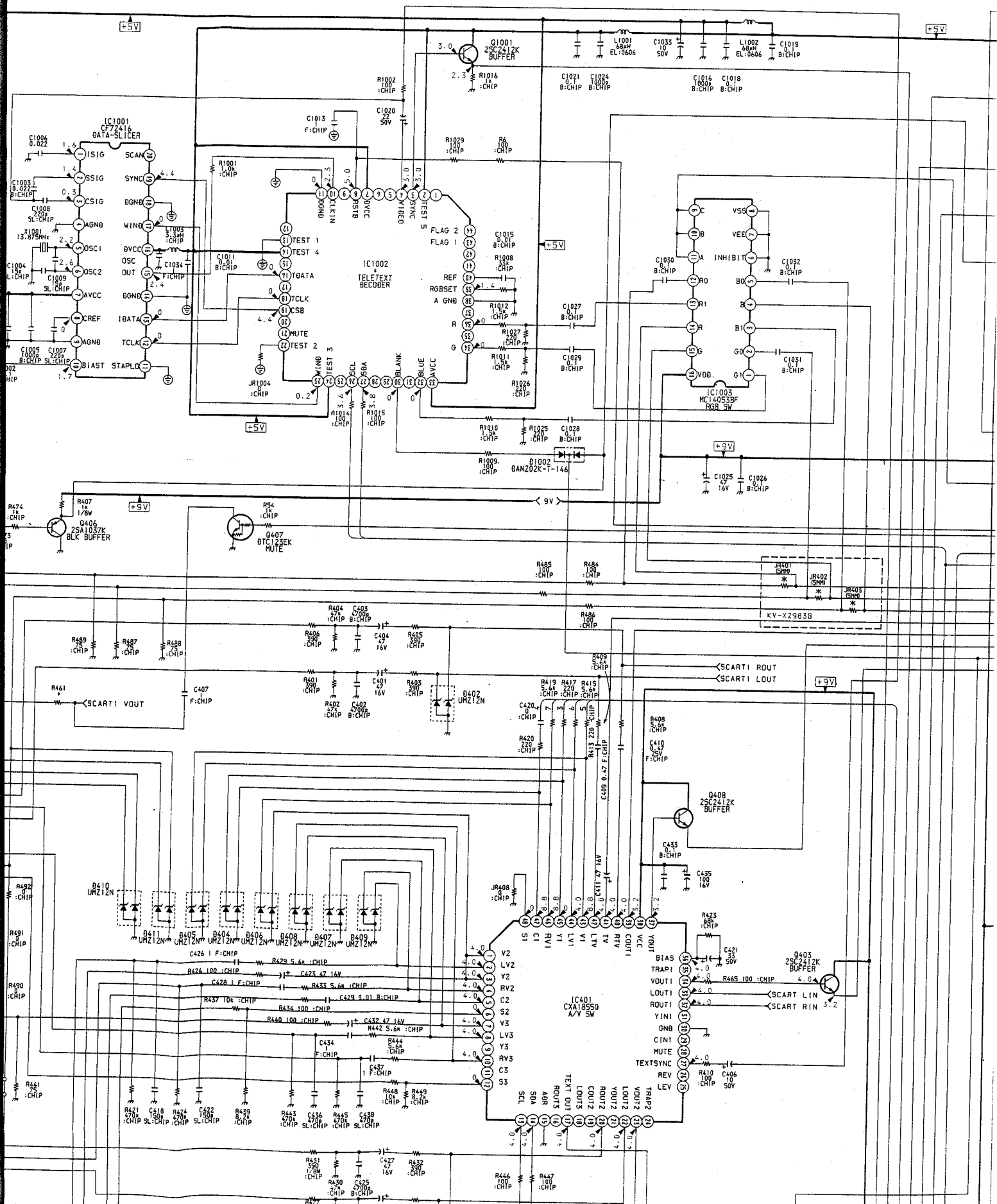
WAVEFORMS A BOARD



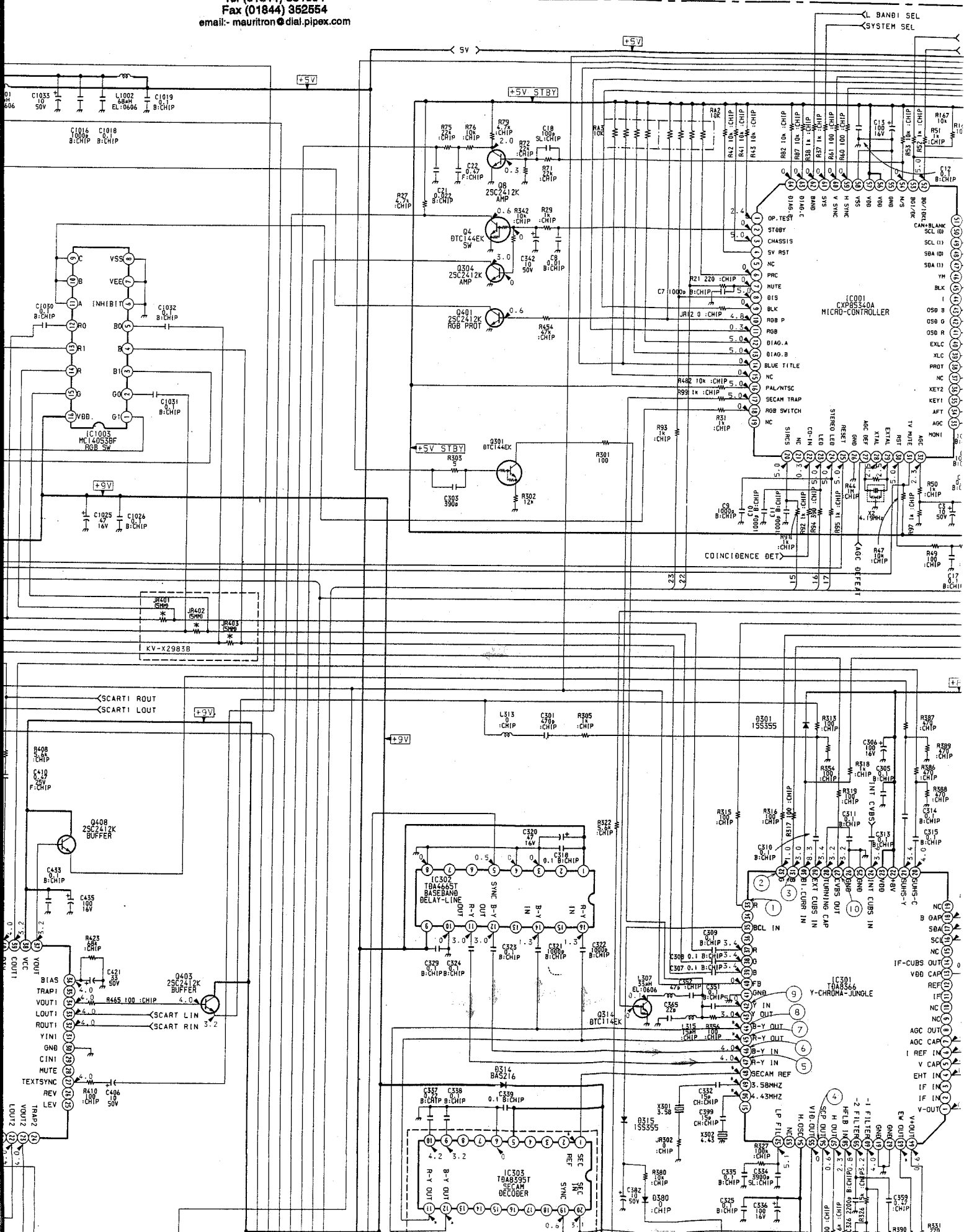


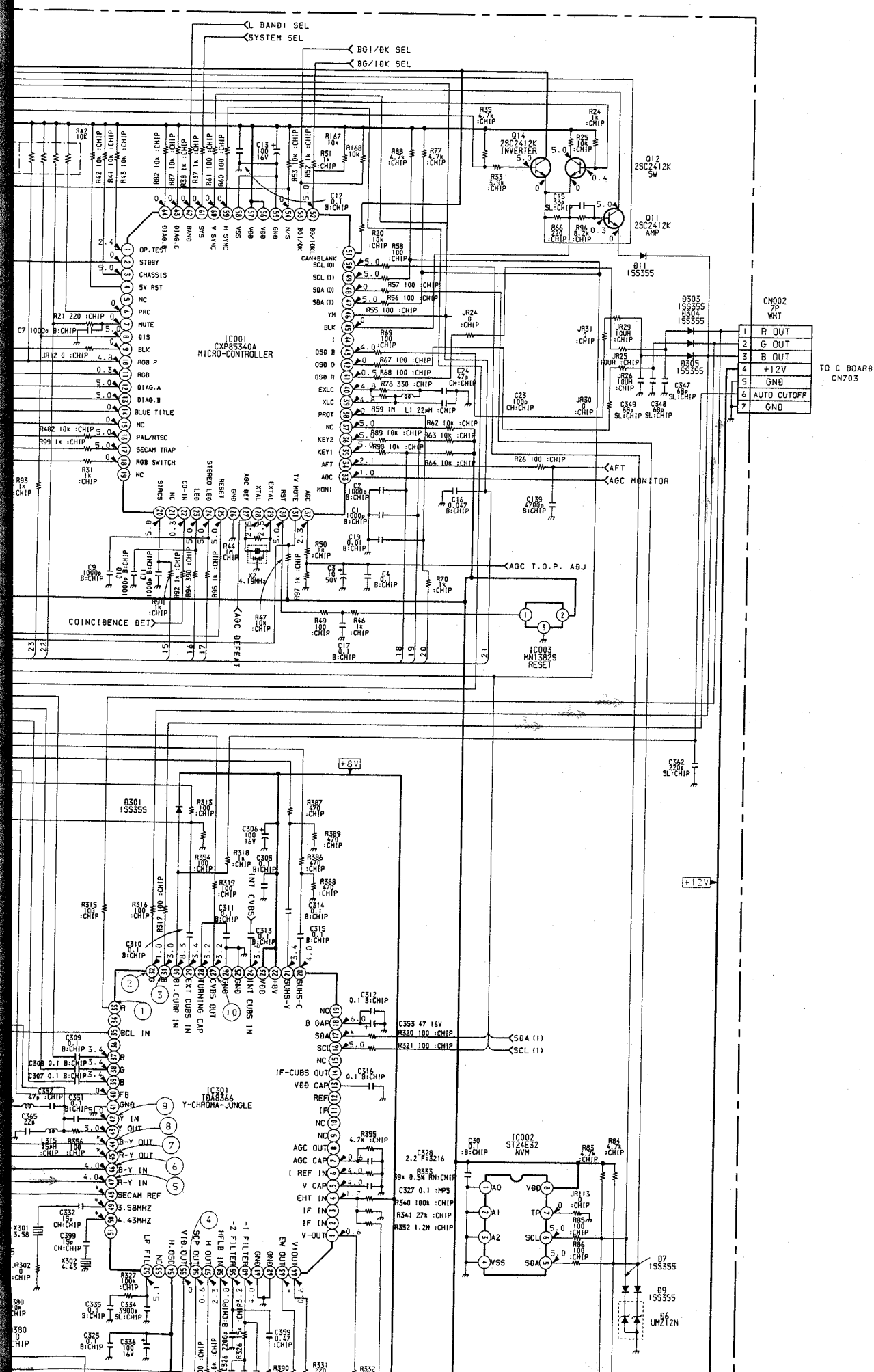


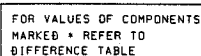
-A.-X298



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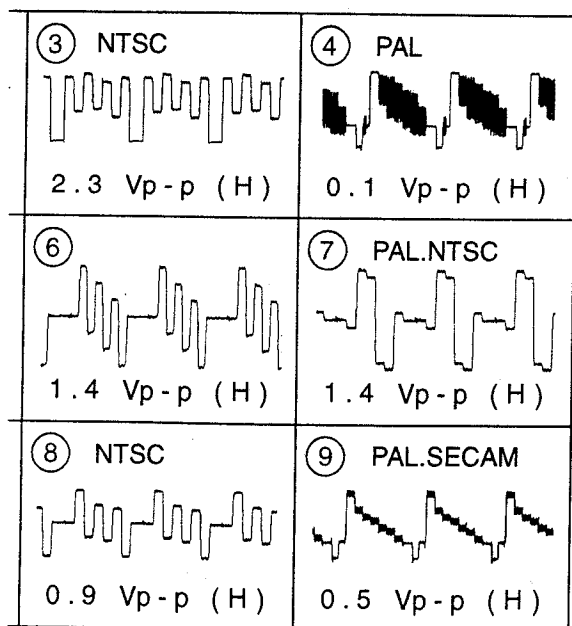
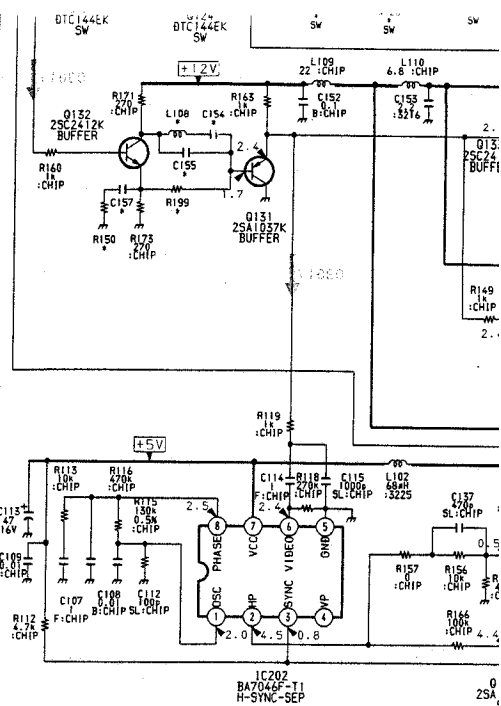
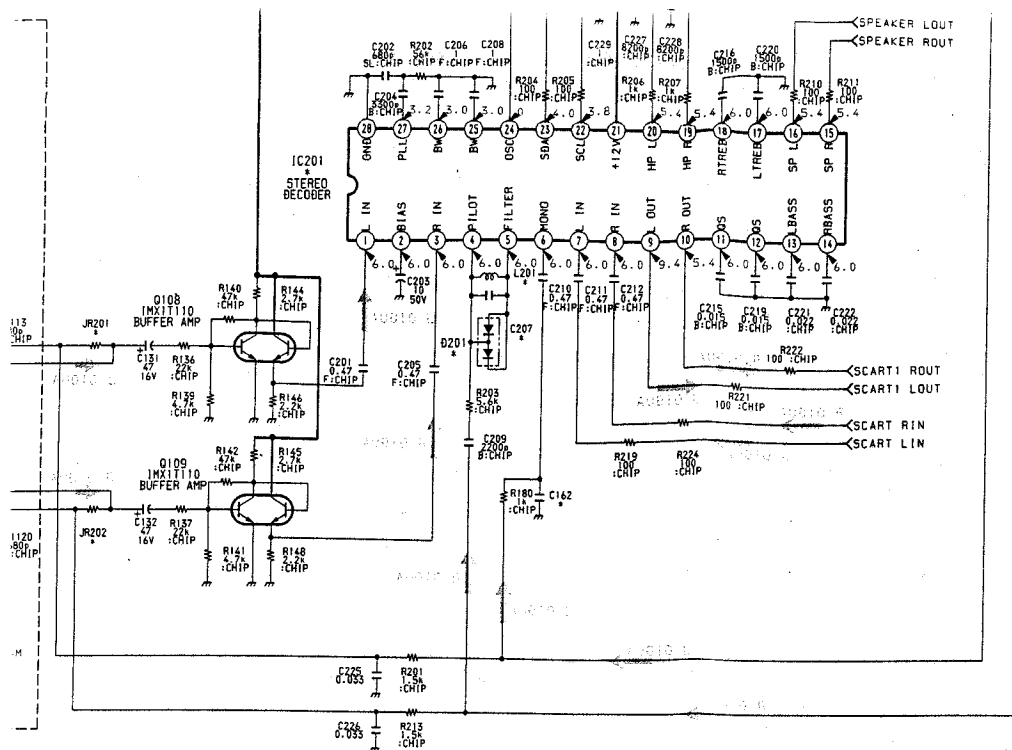






Voltages indicated with the mark * on the schematic diagram are shown in the table below.

IC	Pin	PAL	SECAM
IC301	17	4.0	4.0
	35	3.6	2.5
	44	1.5	3.1
	45	1.5	3.0
	48	1.7	4.4
	49	1.4	1.4
	50	2.0	2.0
	63	3.4	2.5
IC303	1	1.7	4.4
	11	1.5	3.0
	12	1.5	3.1

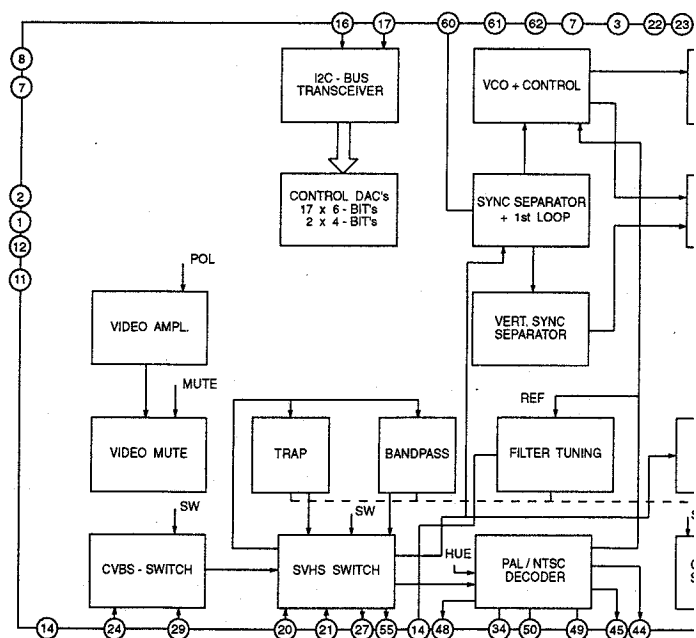


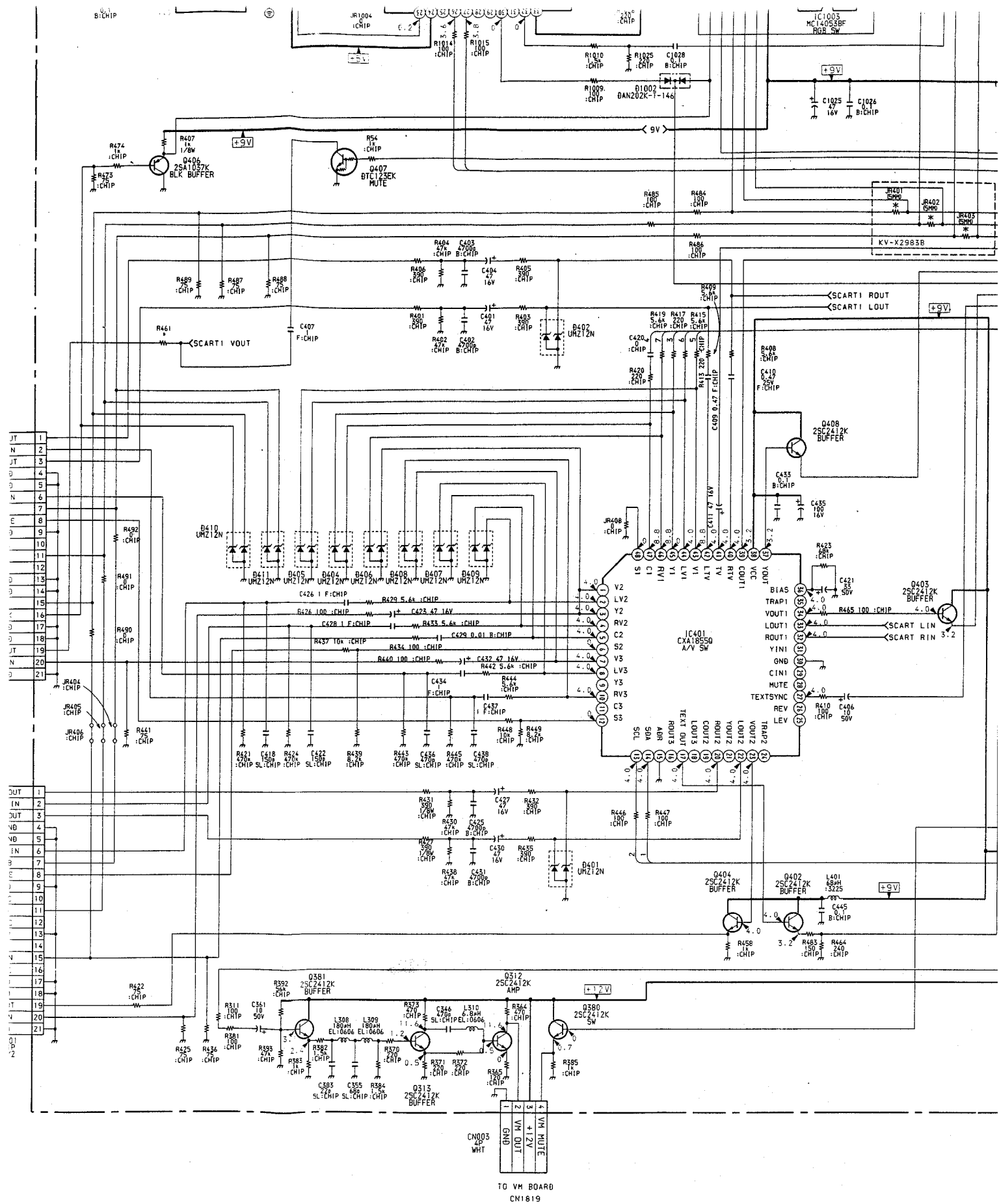
mark * on the
down in the table below.

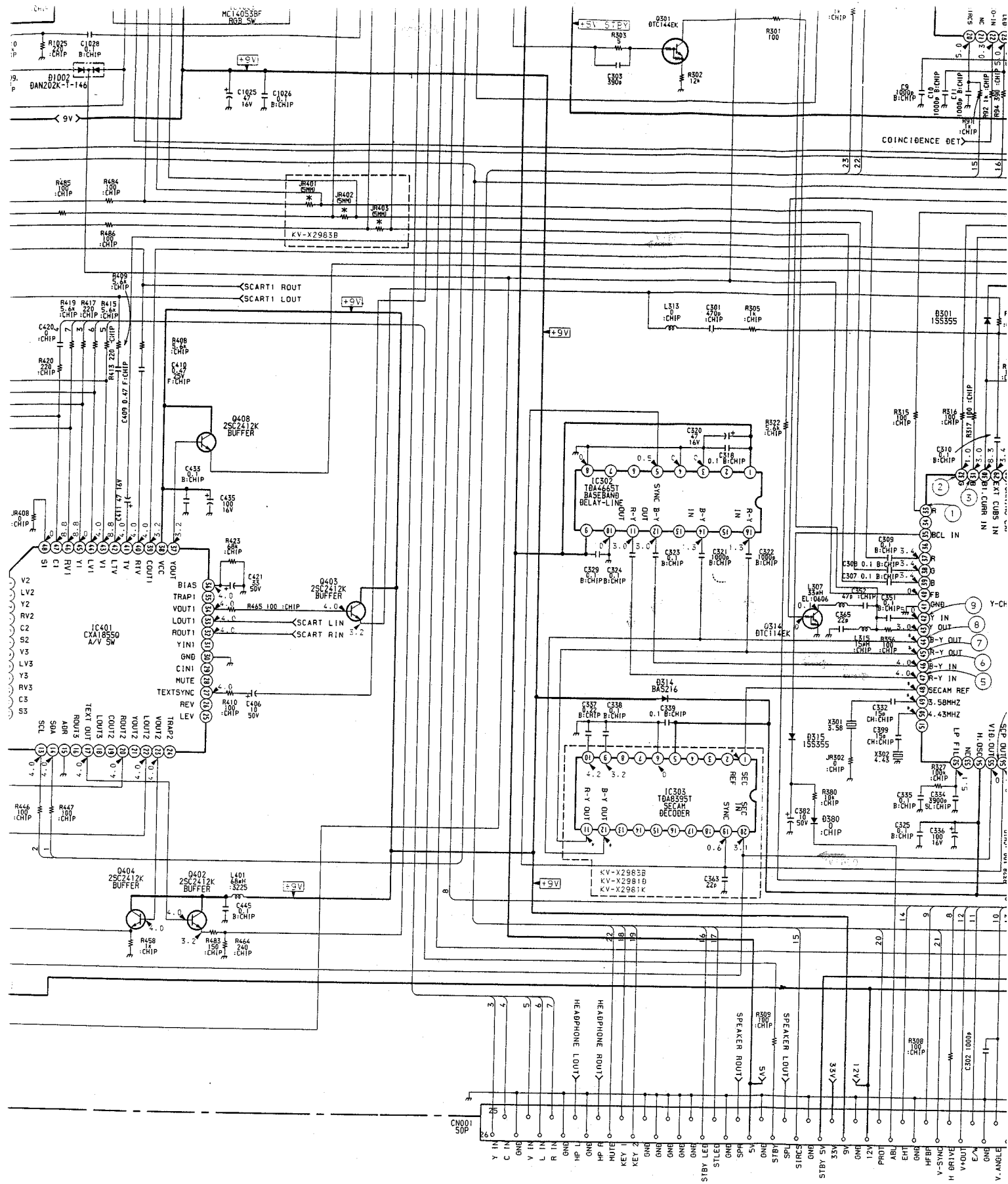
A BOARD

IC	Pin	PAL	SECAM	NTSC 3.58	NTSC 4.43
IC301	17	4.0	4.0	4.0	0
	35	3.6	2.5	3.5	3.5
	44	1.5	3.1	1.5	1.5
	45	1.5	3.0	1.5	1.5
	48	1.7	4.4	1.6	1.7
	49	1.4	1.4	2.0	1.4
	50	2.0	2.0	1.4	2.0
IC303	63	3.4	2.5	2.2	2.5
	1	1.7	4.4	1.6	1.7
	11	1.5	3.0	1.5	1.5
	12	1.5	3.1	1.5	1.5

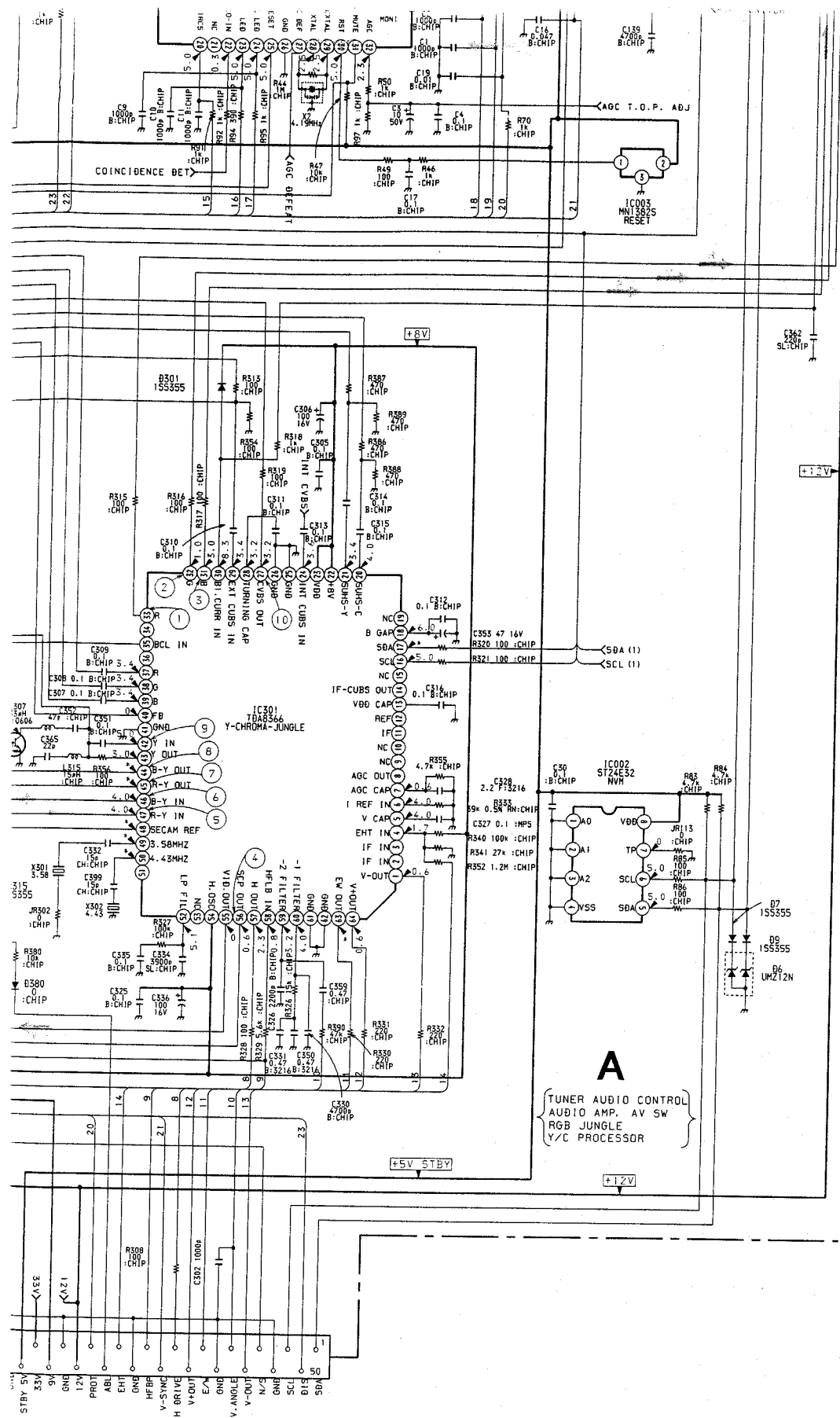
A BOARD IC301 TDA8366







TO B BOARD
CN902



A

TUNER AUDIO CONTROL
AUDIO AMP. AV SW
RGB JUNGLE
Y/C PROCESSOR



A BOARD * M17K

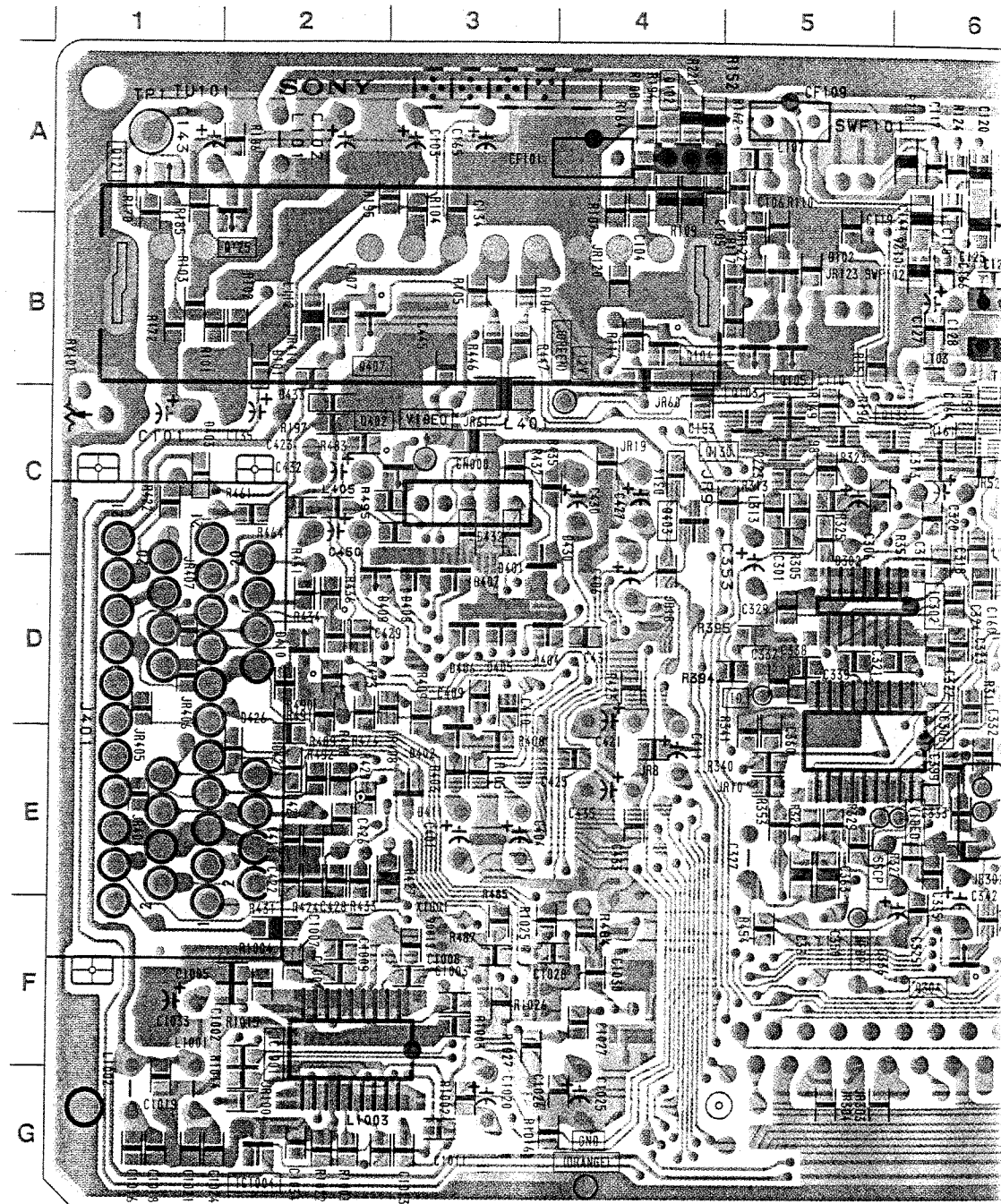
Ref	X2551D	X2351A	X2983B	X2983E	X2982U	X2981K
C101	22 5V	22 5V	4.7 50V	22 50V	22 50V	22 50V
C143	-	-	100 16V	-	-	-
C149	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP	0.01
C154	55p	55p	33p	68p	47p	68p
C155	10p	10p	-	10p	10p	10p
C157	33p	33p	68p	33p	100p	33p
C163	-	-	0.012	-	-	-
C163	-	-	0.001	-	-	-
C207	0.0018 100V	0.0018 100V	0.0018 100V	0.0018 100V	-	0.0018 100V
C1110	-	-	0.047	0.047	0.022	-
CF101	EFCV4045A4	EFCV4045A4	EFCV4045A4	EFCV4045A4	-	EFCV4045A4
CF102	5.5mHz	5.5mHz	5.5mHz/6.6mHz	5.5mHz	6.0mHz	5.5mHz
CF103	5.5mHz	5.5mHz	5.5mHz	5.5mHz	-	5.5mHz
CF104	6.5mHz	-	6.0mHz	-	6.0mHz	6.5mHz
CF106	5.75mHz	5.75mHz	5.75mHz	5.75mHz	-	5.75mHz
CF107	-	-	-	-	-	FILTER
D102	-	-	DAN202K	-	-	-
D103	DAN202K	-	DAN202K	-	-	0 : CHIP
D108	-	-	-	-	-	DAN202K
D201	DA204K	DA204K	DA204K	DA204K	-	DA204K
IC101	TDA9813T	TDA9813T	TDA9814T	TDA9813T	TDA9813T	TDA9813T
IC201	TDA6612	TDA6612	TDA6612	TDA6612	TDA6622	TDA6612
IC1002	CF70200FN	CF70200FN	-	CF70200FN	CF70205FN	CF70200FN
JR115	-	-	-	-	-	0 : CHIP
JR122	0 : CHIP	0 : CHIP	-	0 : CHIP	0 : CHIP	0 : CHIP
JR123	0 : CHIP	0 : CHIP	-	0 : CHIP	0 : CHIP	0 : CHIP
JR125	-	0 : CHIP	-	0 : CHIP	-	-
JR127	-	-	-	-	0 : CHIP	-
JR201	0 : CHIP	0 : CHIP	-	-	-	0 : CHIP
JR202	0 : CHIP	0 : CHIP	-	-	-	0 : CHIP
JR401	-	-	0 : CHIP	-	-	-
JR402	-	-	0 : CHIP	-	-	-
JR403	-	-	0 : CHIP	-	-	-
L104	-	-	100μH	-	-	-
L105	12μH	12μH	5.6μH	12μH	12μH	12μH
L108	33μH	33μH	27μH	33μH	10μH	33μH
L201	4.7mmH	4.7mmH	4.7mmH	4.7mmH	-	4.7mmH
Q103	-	-	DTC114EK	-	-	-
Q104	-	-	DTC114EK	-	-	-
Q105	-	-	DTC114EK	-	-	-
Q116	DTC144EK	-	DTC144EK	-	-	-
Q117	DTC144EK	-	DTC144EK	-	-	-
Q121	-	-	2SA1037K	-	-	-
Q125	-	-	DTC114EK	-	-	-
Q126	-	-	-	-	-	DTC144EK
Q127	-	-	-	-	-	DTC144EK
Q128	-	-	-	-	-	DTC144EK
R134	2.2K	-	2.2K	-	-	2.2K
R135	2.2K	-	2.2K	-	-	2.2K
R143	2.2K	-	2.2K	-	-	2.2K
R147	220	220	180	220	330	220
R150	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP	1.5K	0 : CHIP
R161	180	180	180	180	150	180
R175	-	-	-	-	-	1K
R188	-	-	-	-	-	2.2K
R189	-	-	-	-	-	1K
R190	-	-	-	-	-	2.2K
R191	-	-	-	-	-	2.2K
R193	-	-	1K	-	-	-
R199	1K	1K	1.2K	1K	1K	1K
R461	75	75	75	75	58	75
R1104	-	-	33K	-	100K	-
R1105	-	-	1.8K	-	2.2K	-
RV102	-	-	22K	-	-	-
SWF101	K3953M	K3953M	K3953M	K3953M	J3950M	K3953M
SWF102	K9350M	K9350M	K9453M	K9350M	K9350M	K9350M
TU101	UV916H	UV916H	UV916H	UV916H	U944C	UV916H

A BOARD * MARK

Ref	X2981D	X2981A	X2983B	X2983E	X2982U	X2981K
C101	22 50V	22 50V	4.7 50V	22 50V	22 50V	22 50V
C143	-	-	100 16V	-	-	-
C149	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP	0.01
C154	68p	68p	33p	68p	47p	68p
C155	10p	10p	-	10p	10p	10p
C157	33p	33p	68p	33p	100p	33p
C163	-	-	0.012	-	-	-
C163	-	-	0.001	-	-	-
C207	0.0018 100V	0.0018 100V	0.0018 100V	0.0018 100V	-	0.0018 100V
C1110	-	-	0.047	0.047	0.022	-
CF101	EFCV4045A4	EFCV4045A4	EFCV4045A4	EFCV4045A4	-	EFCV4045A4
CF102	5.5mHz	5.5mHz	5.5mHz/6.6mHz	5.5mHz	6.0mHz	5.5mHz
CF103	5.5mHz	5.5mHz	5.5mHz	5.5mHz	-	5.5mHz
CF104	6.5mHz	-	6.0mHz	-	6.0mHz	6.5mHz
CF106	5.75mHz	5.75mHz	5.75mHz	5.75mHz	-	5.75mHz
CF107	-	-	-	-	-	FILTER
D102	-	-	DAN202K	-	-	-
D103	DAN202K	-	DAN202K	-	-	0 : CHIP
D108	-	-	-	-	-	DAN202K
D201	DA204K	DA204K	DA204K	DA204K	-	DA204K
IC101	TDA9813T	TDA9813T	TDA9814T	TDA9813T	TDA9813T	TDA9813T
IC201	TDA6612	TDA6612	TDA6612	TDA6612	TDA6622	TDA6612
IC1002	CF70200FN	CF70200FN	-	CF70200FN	CF70205FN	CF70200FN
JR115	-	-	-	-	-	0 : CHIP
JR122	0 : CHIP	0 : CHIP	-	0 : CHIP	0 : CHIP	0 : CHIP
JR123	0 : CHIP	0 : CHIP	-	0 : CHIP	0 : CHIP	0 : CHIP
JR125	-	0 : CHIP	-	0 : CHIP	-	-
JR127	-	-	-	-	0 : CHIP	-
JR201	0 : CHIP	0 : CHIP	-	-	-	0 : CHIP
JR202	0 : CHIP	0 : CHIP	-	-	-	0 : CHIP
JR401	-	-	0 : CHIP	-	-	-
JR402	-	-	0 : CHIP	-	-	-
JR403	-	-	0 : CHIP	-	-	-
L104	-	-	100μH	-	-	-
L105	12μH	12μH	5.6μH	12μH	12μH	12μH
L108	33μH	33μH	27μH	33μH	10μH	33μH
L201	4.7mmH	4.7mmH	4.7mmH	4.7mmH	-	4.7mmH
Q103	-	-	DTC114EK	-	-	-
Q104	-	-	DTC114EK	-	-	-
Q105	-	-	DTC114EK	-	-	-
Q116	DTC144EK	-	DTC144EK	-	-	-
Q117	DTC144EK	-	DTC144EK	-	-	-
Q121	-	-	2SA1037K	-	-	-
Q125	-	-	DTC114EK	-	-	-
Q126	-	-	-	-	-	DTC144EK
Q127	-	-	-	-	-	DTC144EK
Q128	-	-	-	-	-	DTC144EK
R134	2.2K	-	2.2K	-	-	2.2K
R135	2.2K	-	2.2K	-	-	2.2K
R143	2.2K	-	2.2K	-	-	2.2K
R147	220	220	180	220	330	220
R150	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP	1.5K	0 : CHIP
R161	180	180	180	180	150	180
R175	-	-	-	-	-	1K
R188	-	-	-	-	-	2.2K
R189	-	-	-	-	-	1K
R190	-	-	-	-	-	2.2K
R191	-	-	-	-	-	2.2K
R193	-	-	1K	-	-	-
R199	1K	1K	1.2K	1K	1K	1K
R461	75	75	75	75	56	75
R1104	-	-	33K	-	100K	-
R1105	-	-	1.8K	-	2.2K	-
RV102	-	-	22K	-	-	-
SWF101	K3953M	K3953M	K3953M	K3953M	J3950M	K3953M
SWF102	K9350M	K9350M	K9453M	K9350M	K9350M	K9350M
TU101	UV916H	UV916H	UV916H	UV916H	U944C	UV916H

A

TUNER AUDIO CONTROL
AUDIO AMP, AV SW
RGB JUNGLE, Y/C PROCESSOR

— A BOARD —

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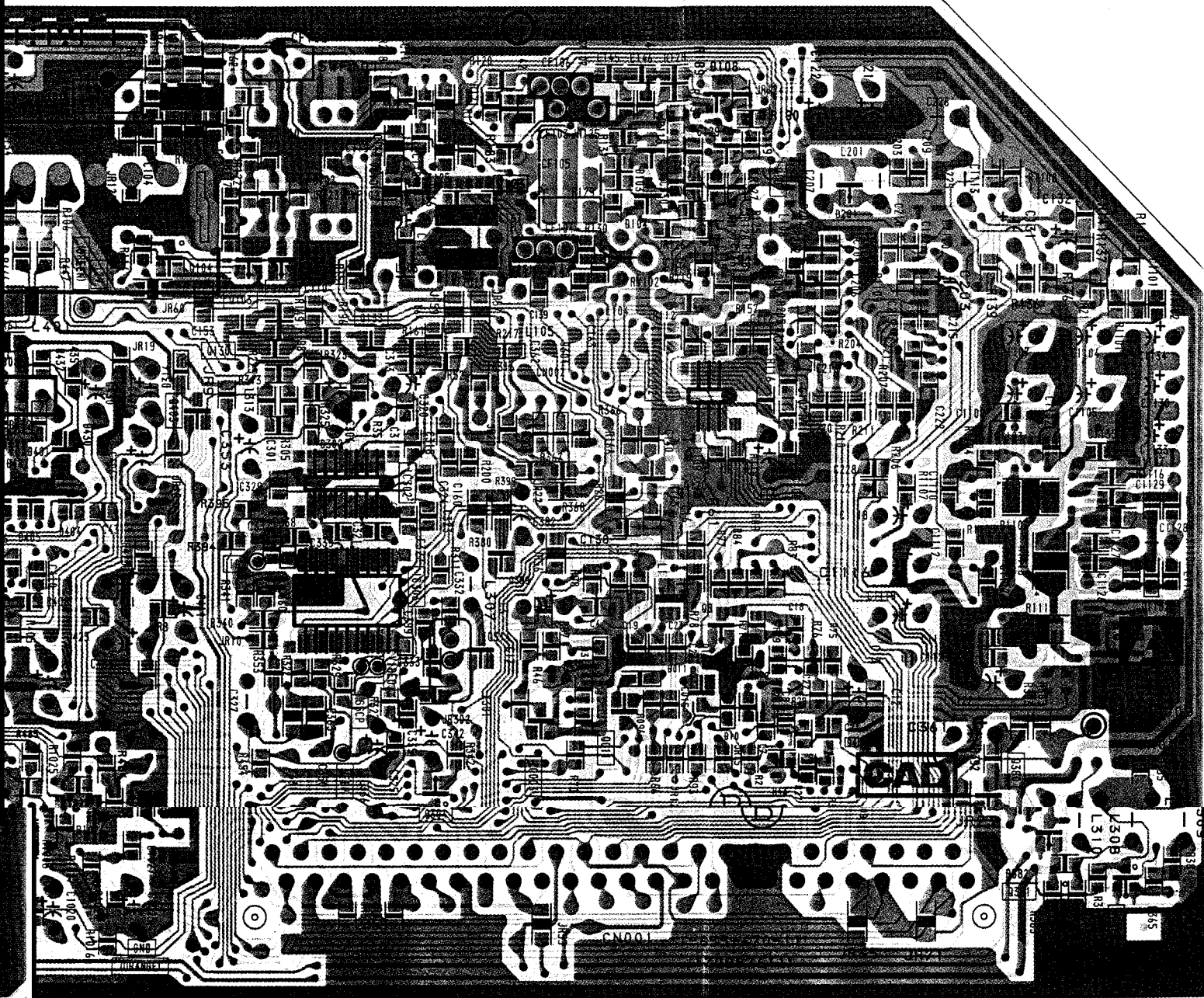
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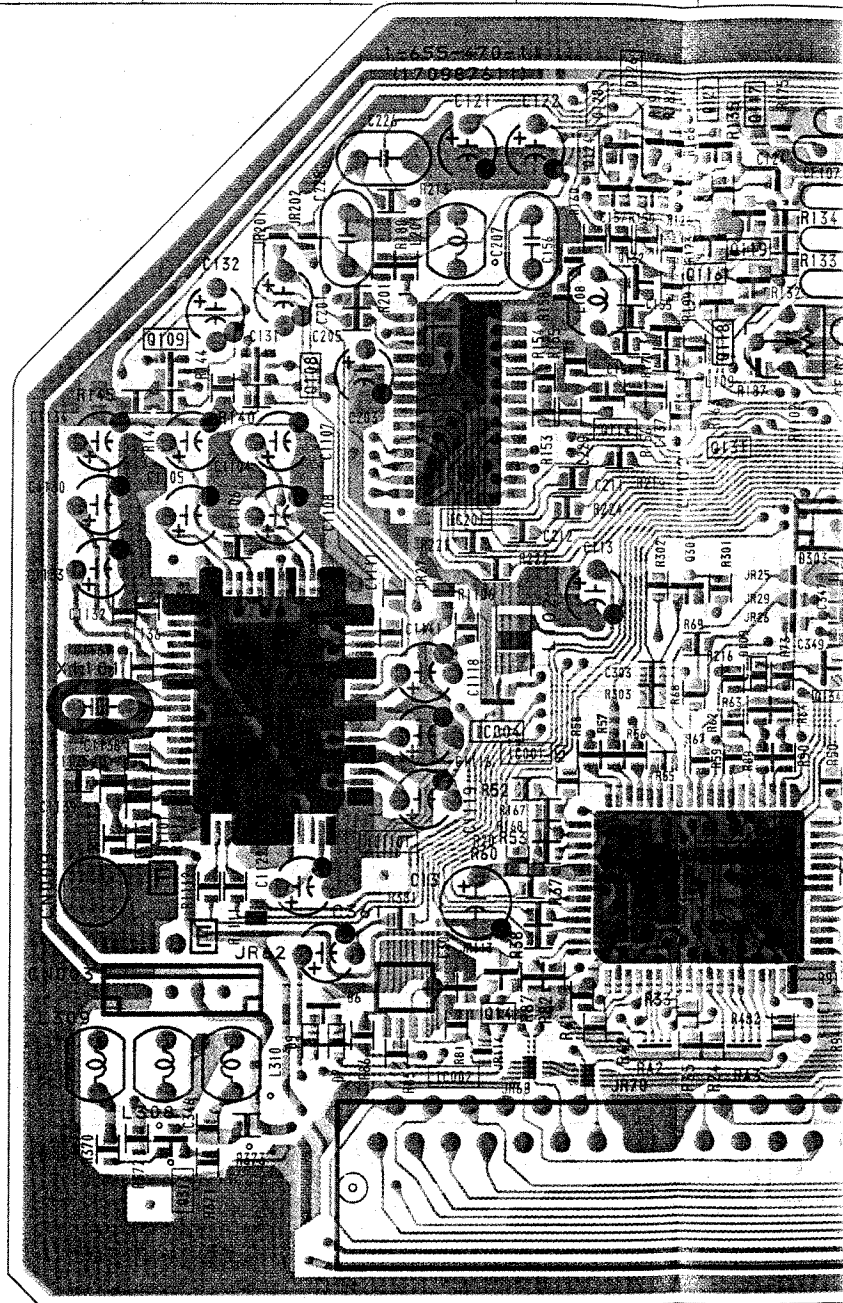
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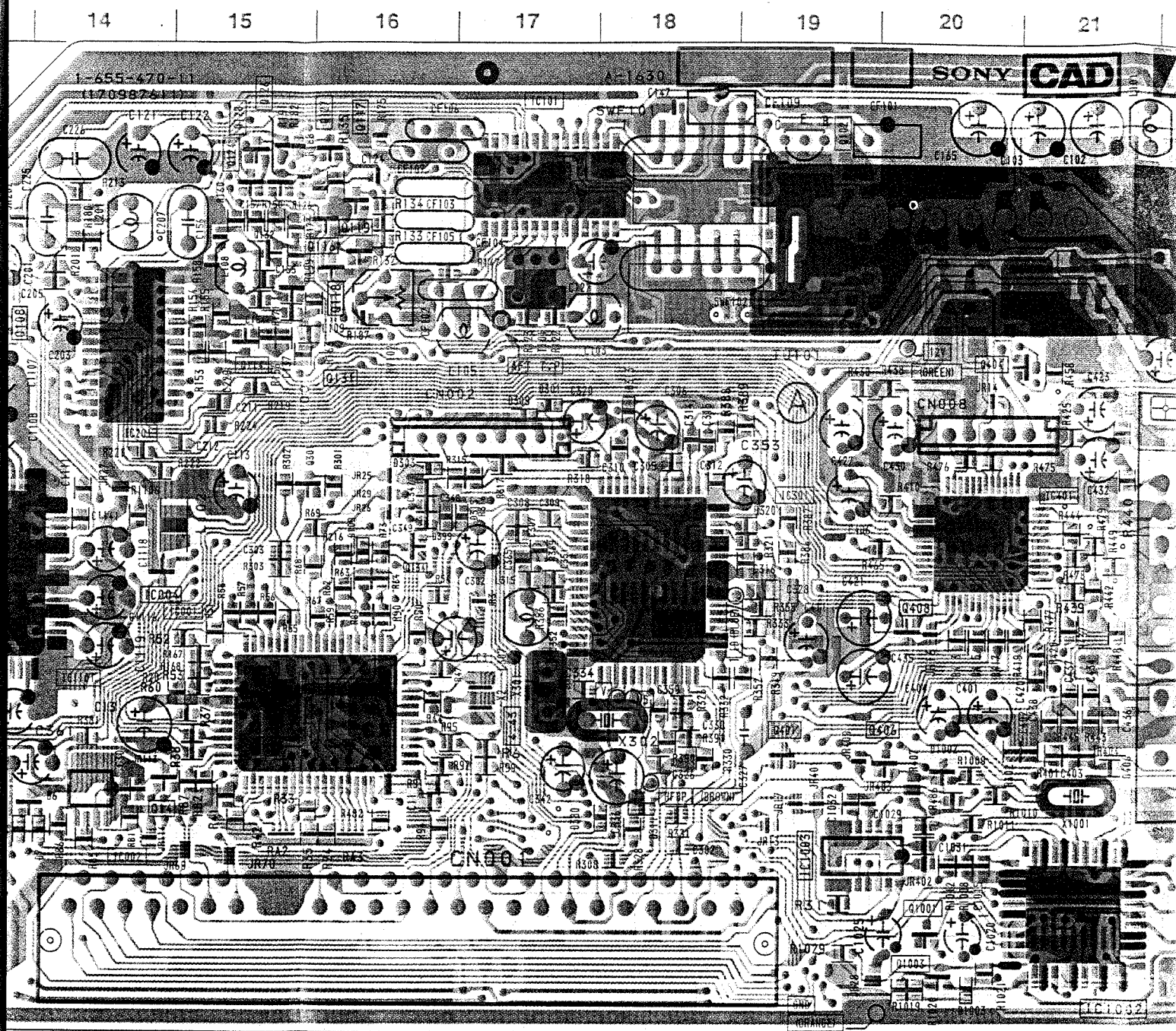
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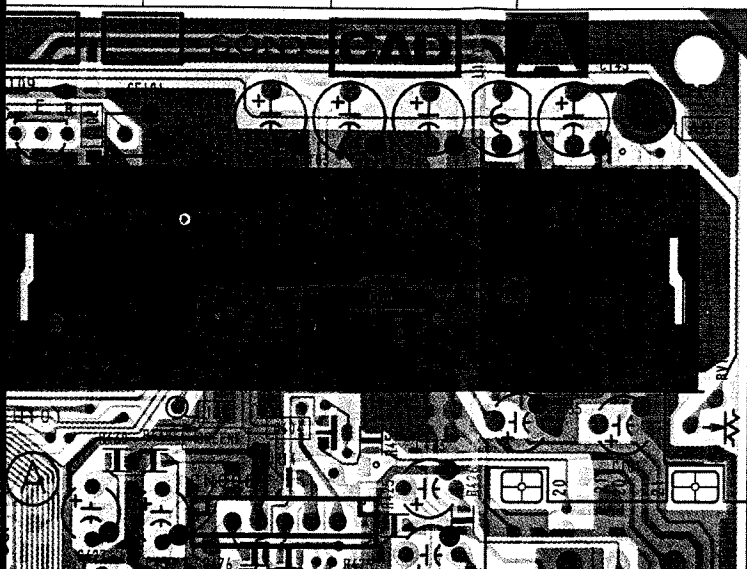


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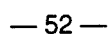


19 20 21 22



— A BOARD —

IC			
IC001	E-15	Q313	G-13
IC002	F-14	Q314	E-6
IC003	E-7	Q380	F-10
IC101	A-17	Q381	F-10
IC201	C-14	Q401	E-19
IC202	C-8	Q402	C-3
IC301	D-18	Q403	C-4
IC302	E-5	Q404	C-21
IC303	E-6	Q406	E-20
IC401	D-20	Q407	B-2
IC1001	F-2	Q408	E-20
IC1002	G-21	Q1001	G-20
IC1003	F-19	DIODE	
IC1101	E-14	D6	F-14
TRANSISTOR		D7	F-14
Q4	F-9	D9	F-13
Q8	E-8	D11	E-8
Q11	E-7	D101	B-2
Q12	E-8	D102	B-5
Q14	F-15	D103	B-7
		D108	A-8
		D201	B-9
		D202	C-17

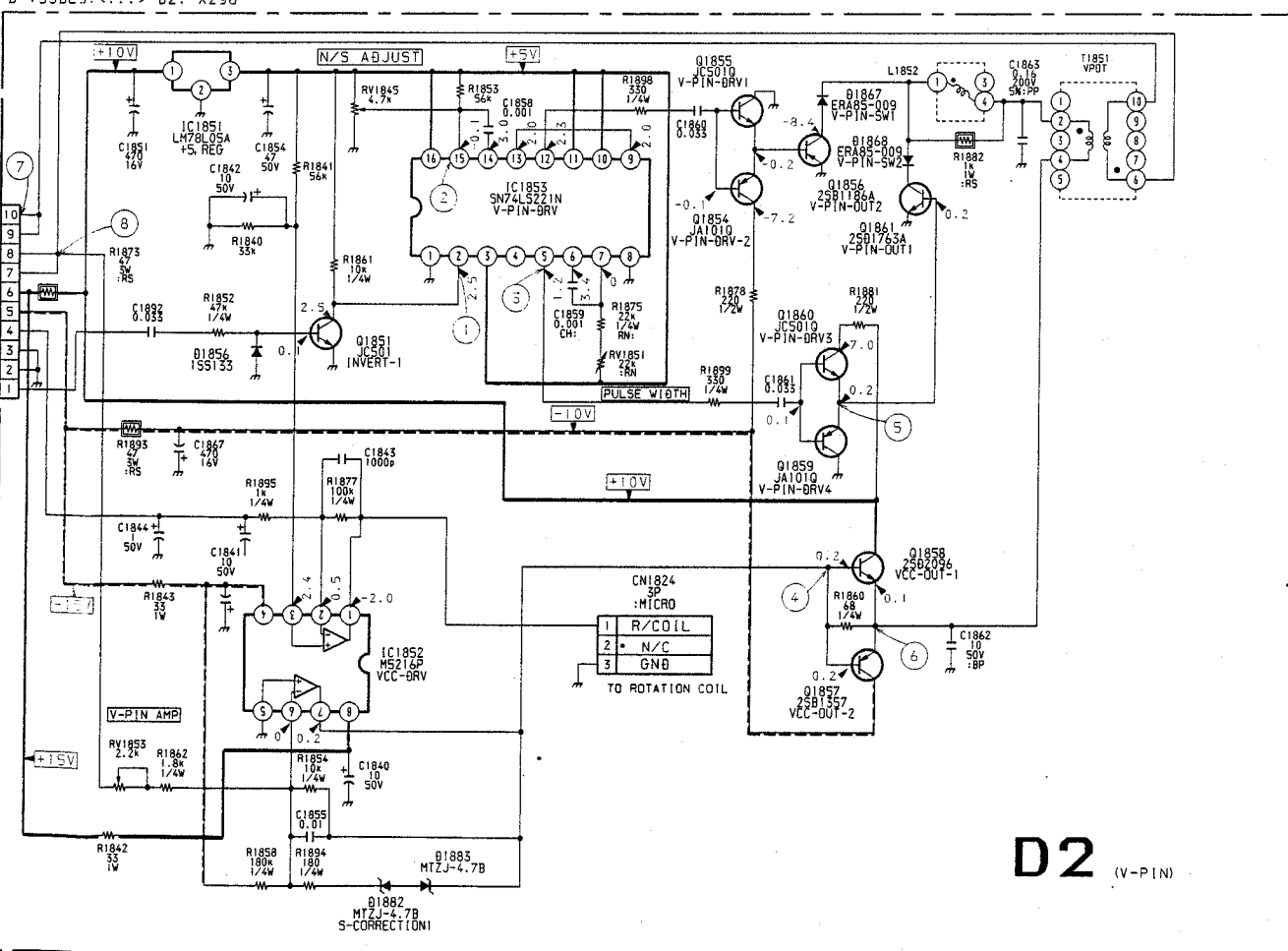




The schematic diagram illustrates the internal circuitry of the VM (VM AMP). It features a power supply section with a -135V source and a -12V source. The circuit includes several vacuum tube stages: Q1701 (6X4) EL0606, Q1702 (6X4) EL0606, Q1703 (6X4) EL0606, Q1704 (6X4) EL0606, Q1705 (6X4) EL0606, Q1706 (6X4) EL0606, Q1707 (6X4) EL0606, Q1708 (6X4) EL0606, Q1709 (6X4) EL0606, Q1710 (6X4) EL0606, Q1711 (6X4) EL0606, Q1712 (6X4) EL0606, Q1713 (6X4) EL0606, Q1714 (6X4) EL0606, Q1715 (6X4) EL0606, Q1716 (6X4) EL0606, Q1717 (6X4) EL0606, Q1718 (6X4) EL0606, Q1719 (6X4) EL0606, Q1720 (6X4) EL0606, Q1721 (6X4) EL0606, Q1722 (6X4) EL0606, Q1723 (6X4) EL0606, Q1724 (6X4) EL0606, Q1725 (6X4) EL0606, Q1726 (6X4) EL0606, Q1727 (6X4) EL0606, Q1728 (6X4) EL0606, Q1729 (6X4) EL0606, Q1730 (6X4) EL0606, Q1731 (6X4) EL0606, Q1732 (6X4) EL0606, Q1733 (6X4) EL0606, Q1734 (6X4) EL0606, Q1735 (6X4) EL0606, Q1736 (6X4) EL0606, Q1737 (6X4) EL0606, Q1738 (6X4) EL0606, Q1739 (6X4) EL0606, Q1740 (6X4) EL0606, Q1741 (6X4) EL0606, Q1742 (6X4) EL0606, Q1743 (6X4) EL0606, Q1744 (6X4) EL0606, Q1745 (6X4) EL0606, Q1746 (6X4) EL0606, Q1747 (6X4) EL0606, Q1748 (6X4) EL0606, Q1749 (6X4) EL0606, Q1750 (6X4) EL0606, Q1751 (6X4) EL0606, Q1752 (6X4) EL0606, Q1753 (6X4) EL0606, Q1754 (6X4) EL0606, Q1755 (6X4) EL0606, Q1756 (6X4) EL0606, Q1757 (6X4) EL0606, Q1758 (6X4) EL0606, Q1759 (6X4) EL0606, Q1760 (6X4) EL0606, Q1761 (6X4) EL0606, Q1762 (6X4) EL0606, Q1763 (6X4) EL0606, Q1764 (6X4) EL0606, Q1765 (6X4) EL0606, Q1766 (6X4) EL0606, Q1767 (6X4) EL0606, Q1768 (6X4) EL0606, Q1769 (6X4) EL0606, Q1770 (6X4) EL0606, Q1771 (6X4) EL0606, Q1772 (6X4) EL0606, Q1773 (6X4) EL0606, Q1774 (6X4) EL0606, Q1775 (6X4) EL0606, Q1776 (6X4) EL0606, Q1777 (6X4) EL0606, Q1778 (6X4) EL0606, Q1779 (6X4) EL0606, Q1780 (6X4) EL0606, Q1781 (6X4) EL0606, Q1782 (6X4) EL0606, Q1783 (6X4) EL0606, Q1784 (6X4) EL0606, Q1785 (6X4) EL0606, Q1786 (6X4) EL0606, Q1787 (6X4) EL0606, Q1788 (6X4) EL0606, Q1789 (6X4) EL0606, Q1790 (6X4) EL0606, Q1791 (6X4) EL0606, Q1792 (6X4) EL0606, Q1793 (6X4) EL0606, Q1794 (6X4) EL0606, Q1795 (6X4) EL0606, Q1796 (6X4) EL0606, Q1797 (6X4) EL0606, Q1798 (6X4) EL0606, Q1799 (6X4) EL0606, Q1800 (6X4) EL0606.

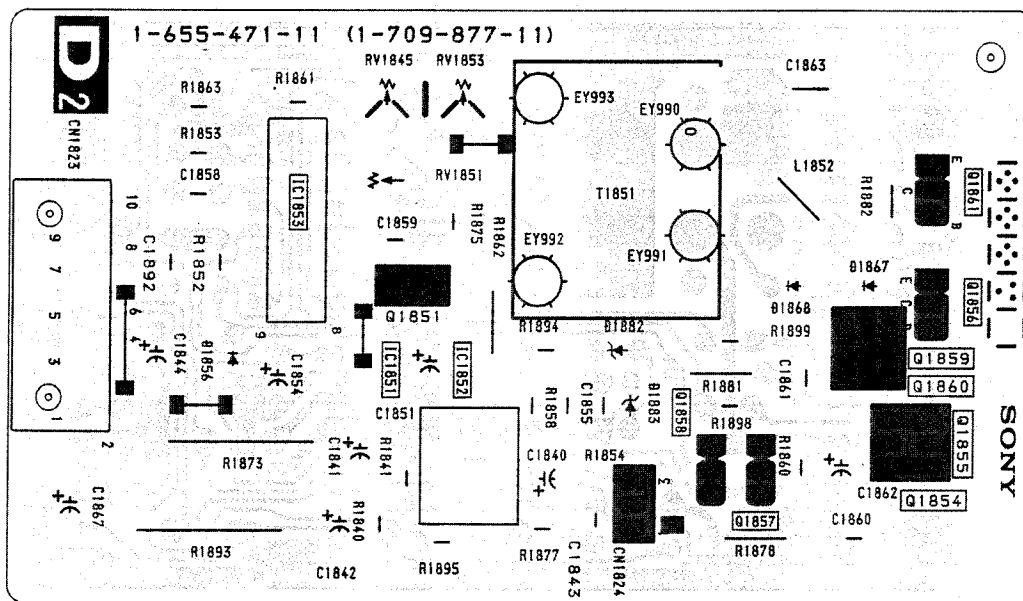
NECK ASSY

B-:SSBE3.<...>-02.-X298

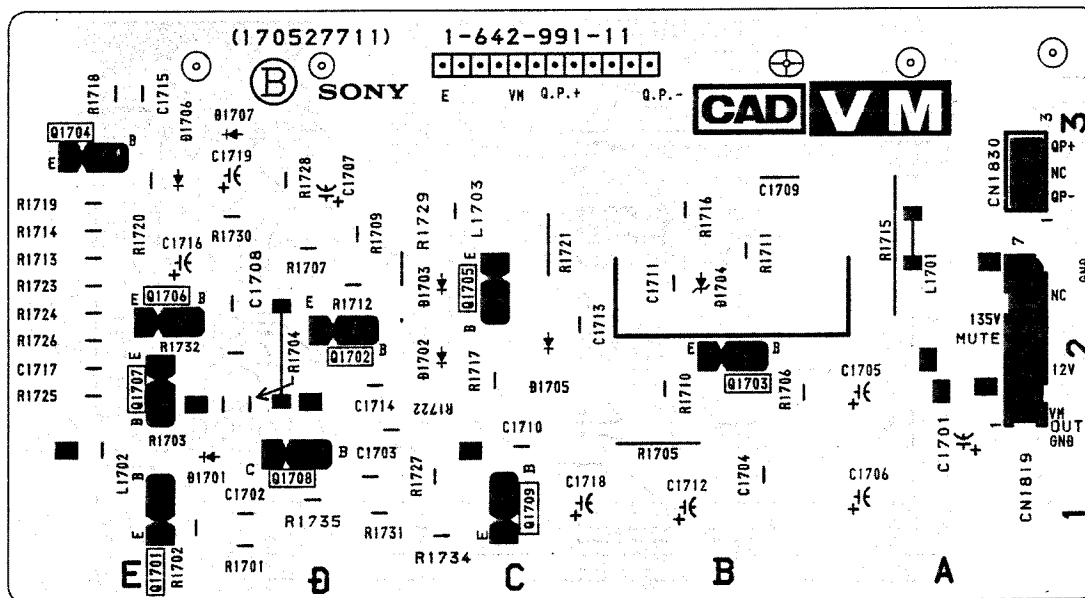


D2 (V-P [N])

— D2 BOARD —

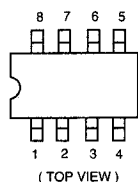
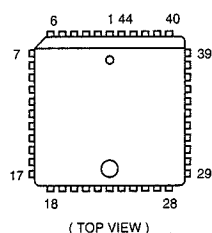
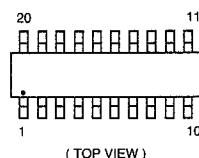


— VM BOARD —

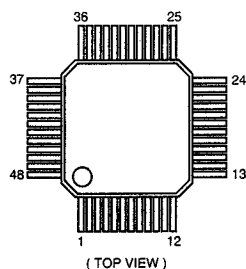
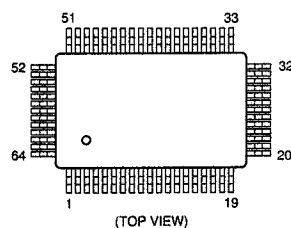
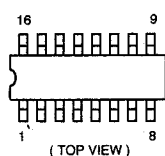
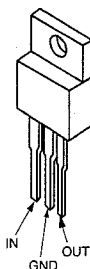
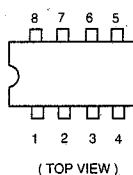


5-4. SEMICONDUCTORS

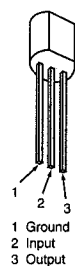
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CF70205FN-RCF72416DW-R
TDA8395T

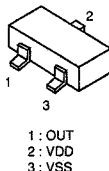
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CXP85340A
SAA7283
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MC14053BFLM2940CT-5.0
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MCT7812CT
TA7812S
 μ PC2405HFLM393P
M5216P
TDA2822M
 μ PC393C

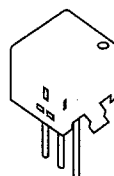
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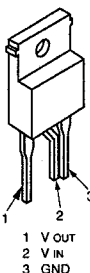
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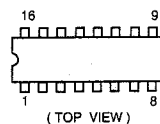
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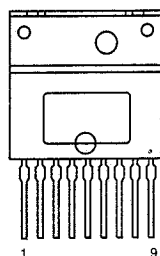
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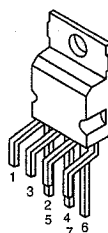
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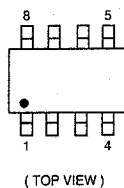
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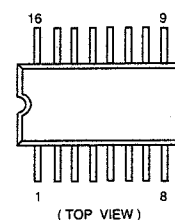
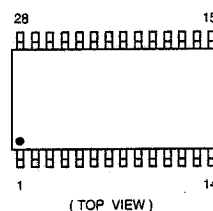
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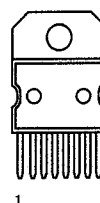
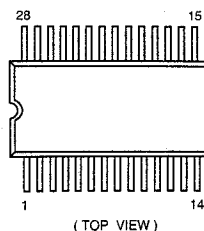
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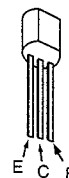
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TDA6622-5X-GEG

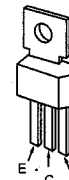
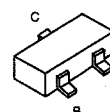
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TDA9813T
TDA9814T/V2

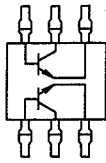
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BF199
JA101
JC501
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2SA733-K
2SC2389S-R
2SC2551-O
2SC2808S-R

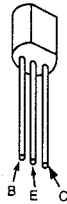
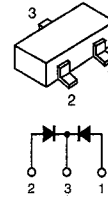
BF871

DTA144ES
DTC114ES
DTC143TS
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DTC123EK
DTC144EK
2SA1037K
2SA1162-G
2SC2412K

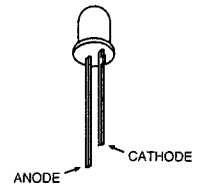
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DAN202K
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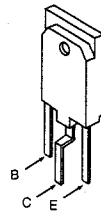
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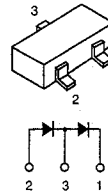
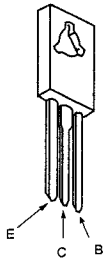
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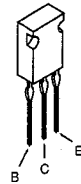
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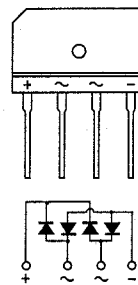
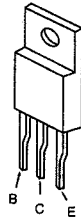
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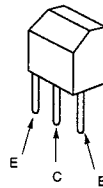
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D4SB60L

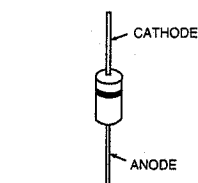
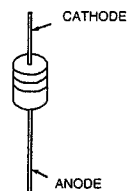
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2SC3852A

2SD774-34

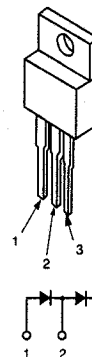


ERA85-009	MTZJ-9.1C
MTZJ-3.6A	MTZJ-39C
MTZJ-3.9B	RD3.9ESB2
MTZJ-4.7B	RD5.1ESB2
MTZJ-5.1B	RD5.6ESB2
MTZJ-5.6B	RD6.8ESB2
MTZJ-6.8C	RD7.5ESB2
MTZJ-7.5C	RD9.1ESB3
MTZJ-9.1	UZ-4.7BSC
MTZJ-9.1A	1SS133

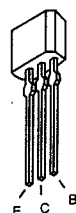
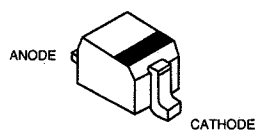
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EGP20G	RGP02
EL1Z	RGP10GPKG23
EM1-V1	RGP15GPKG23
EU-1-V1	RU3YX
EU-1Z	RU4
FML-G12S	

2SA1837
2SB1186A
2SC4793
2SD1763A

FMS-3FU



2SC2785-HFE

BAS216
DTZ33B
MA8330
1SS355
1SV214

SECTION 6

EXPLODED VIEWS

NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

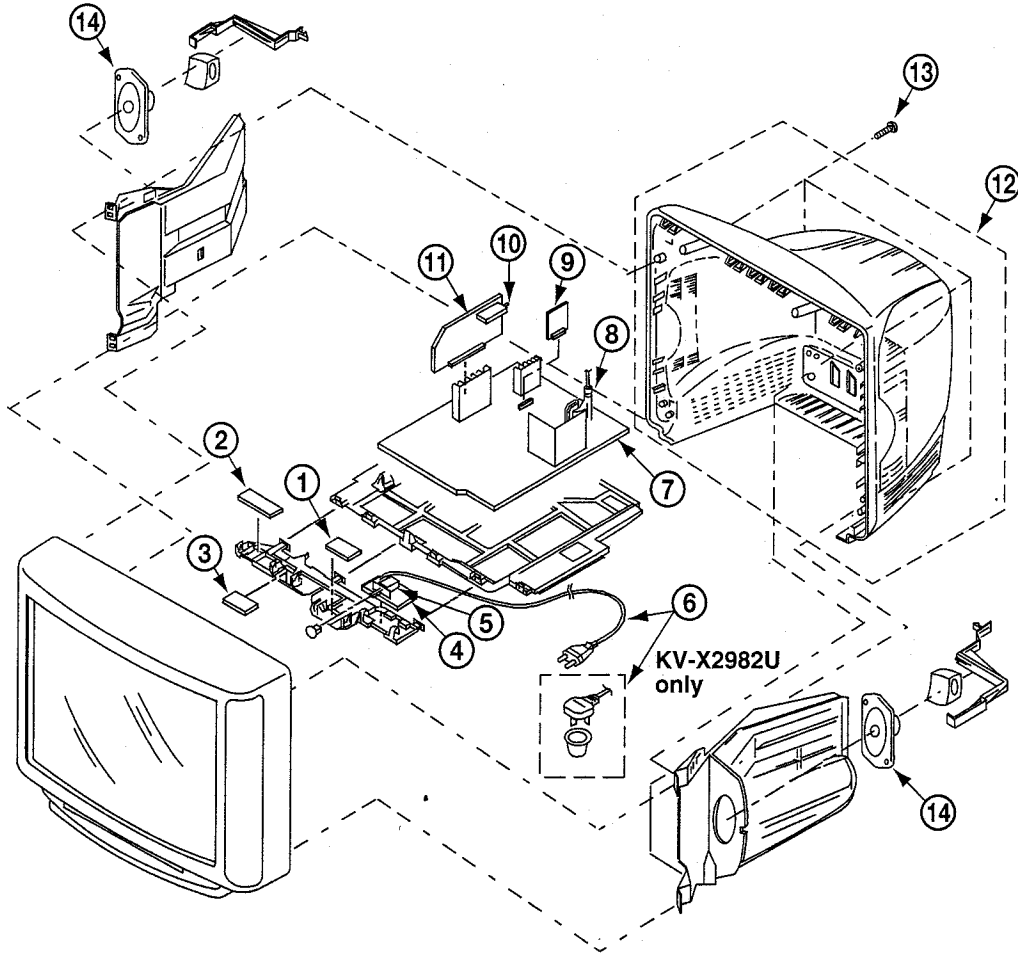
The components identified by shading and marked  are critical for safety.

Replace only with the part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité.

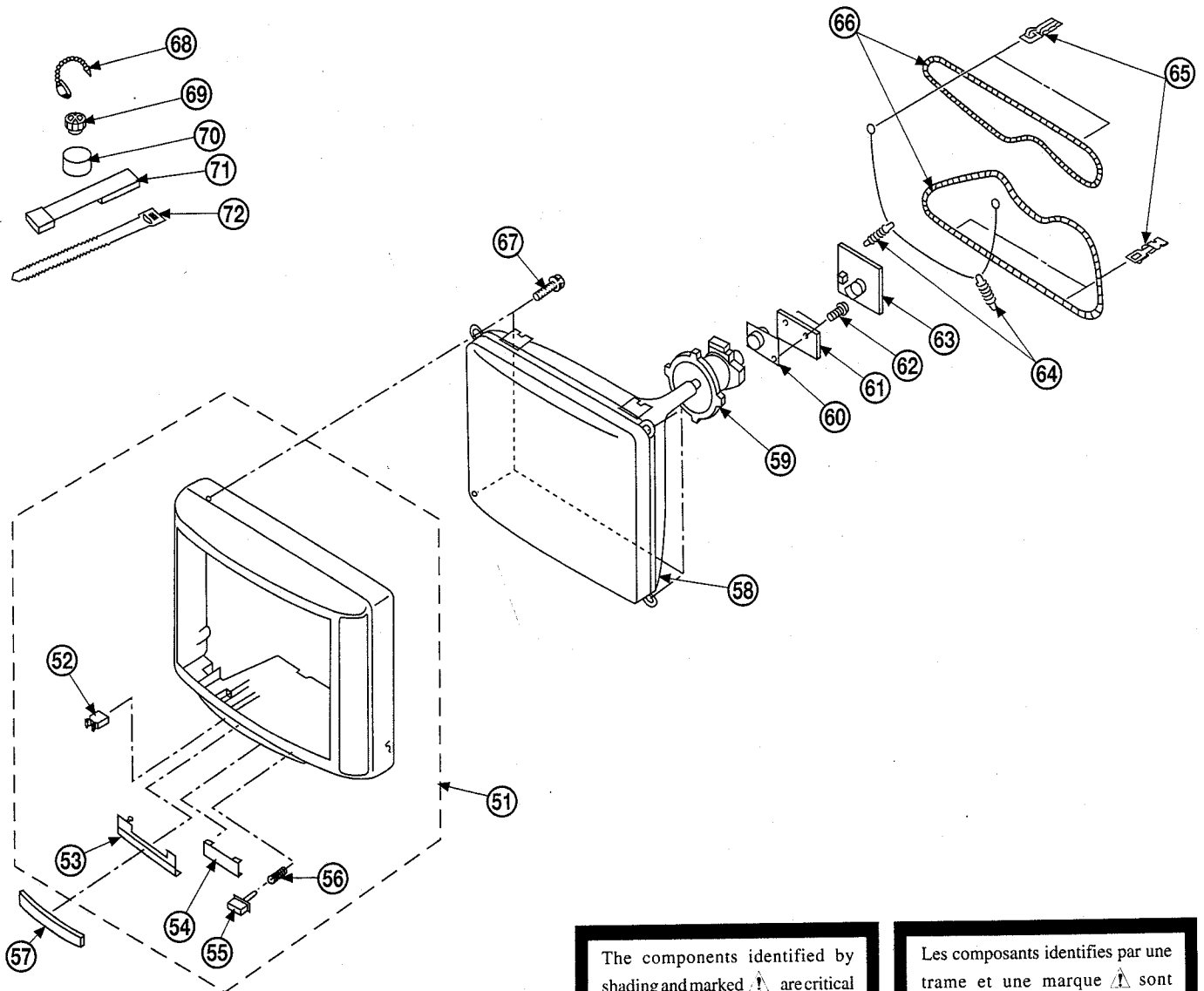
Ne les remplacer que par une pièce portant le numéro spécifique.

6-1. CHASSIS



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	*1-656-733-11	H2 BOARD		10	1-693-184-11	TUNER (U944C)	(KV-X2982U)
2	*1-656-732-11	H1 BOARD			1-693-185-11	TUNER (UV916H)	(EXCEPT KV-X2982U)
3	*1-656-734-11	H3 BOARD		11	*A-1632-266-A	A BOARD, COMPLETE	(KV-X2981D)
4	*1-656-735-11	F1 BOARD			*A-1632-275-A	A BOARD, COMPLETE	(KV-X2982U)
5	 1-571-433-11	SWITCH, PUSH (AC POWER)			*A-1632-276-A	A BOARD, COMPLETE	(KV-X2983B)
6	 1-590-460-11	CORD, POWER (WITH CONNECTOR)			*A-1632-277-A	A BOARD, COMPLETE	(KV-X2983E)
		7.0A/250V (KV-X2983B/X2983E/2981K)			*A-1632-278-A	A BOARD, COMPLETE	(KV-X2981A)
	 1-590-762-11	CORD, POWER (WITH PLUG)			*A-1632-279-A	A BOARD, COMPLETE	(KV-X2981K)
		2.5A/250V (KV-X2982U)		12	X-4200-188-1	COVER ASSY, REAR (SC)	
	 1-751-680-11	CORD, POWER (WITH NOISE FILTER)		13	4-039-358-01	SCREW (4x16), (+) BV TAPPING	
		2.5A/250V (KV-X2981A/X2981D)		14	1-504-819-11	SPEAKER	
7	*A-1640-167-A	D BOARD, COMPLETE					
8	 1-453-169-11	TRANSFORMER ASSY, PLAYBACK (BX-1604A2)					
9	*A-1640-168-A	D2 BOARD, COMPLETE					

6-2. PICTURE TUBE



The components identified by shading and marked Δ are critical for safety.

Replace only with the part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	X-4200-189-1	BEZNET ASSY	52 - 56	62	4-039-357-01	SCREW (3x8), (+) BV TAPPING	
52	4-392-036-01	CATCHER, PUSH		63	*A-1638-062-A	C BOARD, COMPLETE	
53	4-202-642-01	DOOR		64	4-200-433-01	SPRING, EXTENSION	
54	4-202-643-01	WINDOW, ORNAMENTAL		65	4-202-415-01	CLIP, DGC (29")	
55	4-202-637-01	BUTTON, POWER		66	Δ 1-406-807-11	COIL, DEGAUSSING	
56	4-329-112-51	SPRING		67	4-036-188-01	SCREW (M), PT	
57	4-202-644-01	ORNAMENT, DOOR		68	4-308-870-00	CLIP, LEAD WIRE	
58	Δ 8-733-853-05	PICTURE TUBE (SD-269) (M68LCT60X)		69	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
59	Δ 8-451-422-11	DEFLECTION YOKE (Y29GXA)		70	1-452-032-00	MAGNET, DISK; 10MM Ø	
60	Δ 1-452-509-41	NECK ASSY, PICTURE TUBE (NA-308)		71	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
61	*A-1644-028-A	VM BOARD, COMPLETE		72	3-701-007-00	BAND, BINDING	

SECTION 7

ELECTRICAL PARTS LIST

The components identified by shading and marked Δ are critical for safety. Replace only with the part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

CAPACITORS

MF : mF, PF : mmF

COILS

MMH : mH, μ H : mH

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

F1

A

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	*1-656-735-11	F1 BOARD *****					
	< CONNECTOR >						
CN603	*1-580-844-11	PIN, CONNECTOR (POWER)		C19	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
CN604	*1-695-292-11	PIN, CONNECTOR (POWER)		C21	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
	< FUSE >			C22	1-164-005-11	CERAMIC CHIP 0.47MF	25V
F601	*1-576-232-21	FUSE (H.B.C.) (5A/250V)		C23	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
	1-533-230-11	HOLDER, FUSE ; F601		C24	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
	< SWITCH >						
S601	*1-571-433-11	SWITCH, PUSH (AC POWER)		C30	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
*****				C101	1-124-927-11	ELECT 4.7MF	20% 50V
							(KV-X2983B)
*A-1632-266-A	A BOARD, COMPLETE (KV-X2981D)	*****			1-126-233-11	ELECT 4.7MF	20% 50V
*A-1632-275-A	A BOARD, COMPLETE (KV-X2982U)	*****					(KV-X2981A/X2981D/X2983E/X2981K/X2982U)
*A-1632-276-A	A BOARD, COMPLETE (KV-X2983B)	*****		C102	1-126-966-11	ELECT 33MF	20% 50V
*A-1632-277-A	A BOARD, COMPLETE (KV-X2983E)	*****		C103	1-126-966-11	ELECT 33MF	20% 50V
*A-1632-278-A	A BOARD, COMPLETE (KV-X2981A)	*****		C104	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
*A-1632-279-A	A BOARD, COMPLETE (KV-X2981K)	*****		C105	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
TP1	*1-535-084-00	1P TERMINAL PIN		C106	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
	< CAPACITOR >						
C1	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C107	1-164-346-11	CERAMIC CHIP 1MF	16V
C2	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C108	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3	1-126-964-11	ELECT 10MF	20% 50V	C109	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C112	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C7	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C113	1-124-126-00	ELECT 47MF	20% 16V
C8	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C9	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C114	1-164-346-11	CERAMIC CHIP 1MF	16V
C10	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C115	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C11	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C117	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C12	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C118	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C13	1-126-933-11	ELECT 100MF	20% 16V	C119	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C15	1-163-105-00	CERAMIC CHIP 33PF	5% 50V				
C16	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C120	1-164-337-11	CERAMIC CHIP 2.2MF	16V
C17	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C121	1-124-126-00	ELECT 47MF	20% 16V
C18	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C122	1-124-126-00	ELECT 47MF	20% 16V
				C123	1-163-090-00	CERAMIC CHIP 7PF	0.25PF 50V
				C124	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C125	1-164-337-11	CERAMIC CHIP 2.2MF	16V
				C126	1-164-337-11	CERAMIC CHIP 2.2MF	16V
				C127	1-126-966-11	ELECT 33MF	20% 50V
				C128	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C129	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C130	1-216-295-91	METAL GLAZE 0	5% 1/10W
				C131	1-124-126-00	ELECT 47MF	20% 16V
				C132	1-124-126-00	ELECT 47MF	20% 16V
				C134	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C135	1-124-126-00	ELECT 47MF	20% 16V
				C137	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
				C139	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
				C142	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
				C143	1-126-101-11	ELECT 100MF	20% 16V
							(KV-X2983B)

A

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C144	1-162-638-00	CERAMIC CHIP 1MF	16V	C309	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C145	1-163-093-00	CERAMIC CHIP 10PF	5% 50V	C310	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C146	1-163-093-00	CERAMIC CHIP 10PF	5% 50V	C311	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C149	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V (KV-X2981K)	C312	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
	1-216-295-91	METAL GLAZE 0	5% 1/10W (KV-X2981A/X2983B/X2981D/X2983E/X2982U)	C313	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C152	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C314	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C153	1-164-337-11	CERAMIC CHIP 2.2MF	16V	C315	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C154	1-163-105-00	CERAMIC CHIP 33PF	5% 50V (KV-X2983B)	C316	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
	1-163-109-00	CERAMIC CHIP 47PF	5% 50V (KV-X2982U)	C318	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
	1-163-113-00	CERAMIC CHIP 68PF	5% 50V (KV-X2981A/X2981D/X2983E/X2981K)	C320	1-124-126-00	ELECT 47MF	20% 16V
C155	1-163-093-00	CERAMIC CHIP 10PF	5% 50V (KV-X2981A/X2981D/X2983E/X2981K)	C321	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C157	1-163-105-00	CERAMIC CHIP 33PF	5% 50V (KV-X2981A/X2981D/X2983E/X2981K)	C322	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
	1-163-113-00	CERAMIC CHIP 68PF	5% 50V (KV-X2983B)	C323	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
	1-163-117-00	CERAMIC CHIP 100PF	5% 50V (KV-X2982U)	C324	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C160	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C325	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C162	1-163-022-00	CERAMIC CHIP 0.012MF	10% 50V (KV-X2983B)	C326	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C163	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V (KV-X2983B)	C327	1-136-165-00	FILM 0.1MF	5% 50V
C164	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	C328	1-164-337-11	CERAMIC CHIP 2.2MF	16V
C165	1-126-933-11	ELECT 100MF	20% 16V	C329	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C201	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C330	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C202	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	C331	1-165-320-11	CERAMIC CHIP 0.47MF	10% 16V
C203	1-126-964-11	ELECT 10MF	20% 50V	C332	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C204	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V	C334	1-163-016-00	CERAMIC CHIP 0.0039MF	10% 50V
C205	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C335	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C206	1-164-346-11	CERAMIC CHIP 1MF	16V	C336	1-126-933-11	ELECT 100MF	20% 16V
C207	1-137-613-11	FILM 0.0018MF	2% 100V (KV-X2981A/X2983B/X2981D/X2983E/X2981K)	C337	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C208	1-164-346-11	CERAMIC CHIP 1MF	16V	C338	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C209	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	C339	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C210	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C342	1-126-964-11	ELECT 10MF	20% 50V
C211	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C346	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C212	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C347	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C215	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V	C348	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C216	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V	C349	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C219	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V	C350	1-165-320-11	CERAMIC CHIP 0.47MF	10% 16V
C220	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V	C351	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C221	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V	C352	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C222	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V	C353	1-124-126-00	ELECT 47MF	20% 16V
C225	1-130-489-00	FILM 0.033MF	5% 50V	C355	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C226	1-130-489-00	FILM 0.033MF	5% 50V	C359	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C227	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V	C361	1-126-964-11	ELECT 10MF	20% 50V
C228	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V	C362	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C229	1-164-346-11	CERAMIC CHIP 1MF	16V	C363	1-163-101-00	CERAMIC CHIP 22PF	5% 50V (KV-X2983B/X2981D/X2981K)
C301	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C365	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C302	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C382	1-126-964-11	ELECT 10MF	20% 50V
C303	1-163-131-11	CERAMIC CHIP 390PF	5% 50V	C383	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C305	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C399	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C306	1-126-933-11	ELECT 100MF	20% 16V	C401	1-124-126-00	ELECT 47MF	20% 16V
C307	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C402	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C308	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C403	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
				C404	1-124-126-00	ELECT 47MF	20% 16V
				C406	1-126-964-11	ELECT 10MF	20% 50V
				C407	1-164-346-11	CERAMIC CHIP 1MF	16V
				C409	1-164-005-11	CERAMIC CHIP 0.47MF	25V
				C410	1-164-005-11	CERAMIC CHIP 0.47MF	25V
				C411	1-124-126-00	ELECT 47MF	20% 16V
				C418	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
				C420	1-216-295-91	METAL GLAZE 0	5% 1/10W
				C421	1-126-966-11	ELECT 33MF	20% 50V
				C422	1-163-121-00	CERAMIC CHIP 150PF	5% 50V

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C423	1-124-126-00	ELECT 47MF	20% 16V	< C1111 - C1139 FITTED ON >			
C425	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	< KV-X2983B/X2983E/X2982U >			
C426	1-164-346-11	CERAMIC CHIP 1MF	16V	C1111	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C427	1-124-126-00	ELECT 47MF	20% 16V	C1112	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C428	1-164-346-11	CERAMIC CHIP 1MF	16V	C1113	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C429	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1116	1-124-126-00	ELECT 47MF	20% 16V
C430	1-124-126-00	ELECT 47MF	20% 16V	C1117	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C431	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C1118	1-124-126-00	ELECT 47MF	20% 16V
C432	1-124-126-00	ELECT 47MF	20% 16V	C1119	1-124-126-00	ELECT 47MF	20% 16V
C433	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1120	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C434	1-164-346-11	CERAMIC CHIP 1MF	16V	C1122	1-124-126-00	ELECT 47MF	20% 16V
C435	1-126-933-11	ELECT 100MF	20% 16V	C1123	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C436	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C1124	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C437	1-164-346-11	CERAMIC CHIP 1MF	16V	C1125	1-165-320-11	CERAMIC CHIP 0.47MF	10% 16V
C438	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C1126	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C445	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1127	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1002	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1128	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
C1003	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V	C1129	1-162-568-11	CERAMIC CHIP 0.33MF	25V
C1004	1-163-097-00	CERAMIC CHIP 15PF	5% 50V	C1130	1-124-903-11	ELECT 1MF	20% 50V
C1005	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1131	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1006	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V	C1132	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1007	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C1133	1-124-126-00	ELECT 47MF	20% 16V
C1008	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C1134	1-126-964-11	ELECT 10MF	20% 50V
C1009	1-163-097-00	CERAMIC CHIP 15PF	5% 50V	C1135	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C1011	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1136	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1013	1-164-346-11	CERAMIC CHIP 1MF	16V	C1137	1-163-095-00	CERAMIC CHIP 12PF	5% 50V
C1015	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1139	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1016	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	< FILTER >			
C1018	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CF101	1-760-154-11	TRAP, CERAMIC (KV-X2981A/X2983B/X2981D/X2983E/X2981K)	
C1019	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CF102	1-409-333-00	TRAP, CERAMIC (6.0MHZ) (KV-X2982U)	
C1020	1-126-233-11	ELECT 22MF	20% 50V		1-409-430-11	TRAP, CERAMIC (KV-X2983B)	
C1021	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V		1-404-134-00	TRAP, CERAMIC (5.5MHZ) (KV-X2981A/X2981D/X2983E/X2981K)	
C1024	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	CF103	1-760-106-11	FILTER, CERAMIC (KV-X2981A/X2983B/X2981D/X2983E/X2981K)	
C1025	1-124-126-00	ELECT 47MF	20% 16V	CF104	1-567-100-00	FILTER, CERAMIC (KV-X2983B/X2982U)	
C1026	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V		1-567-101-11	FILTER, CERAMIC (KV-X2981D/X2981K)	
C1027	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CF106	1-760-107-11	FILTER, CERAMIC (KV-X2981A/X2983B/X2981D/X2983E/X2981K)	
C1028	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CF107	1-760-449-21	FILTER, CERAMIC (KV-X2981K)	
C1029	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	SWF101	1-579-273-11	FILTER, SURFACE WAVE (KV-X2981A/X2983B/X2981D/X2983E/X2981K)	
C1030	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V		1-760-330-11	FILTER, SURFACE WAVE (KV-X2982U)	
C1031	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	SWF102	1-760-244-11	FILTER, SURFACE WAVE (KV-X2983B)	
C1032	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V		1-760-329-11	FILTER, SURFACE WAVE (KV-X2981A/X2981D/X2983E/X2981K/X2982U)	
C1033	1-126-964-11	ELECT 10MF	20% 50V	< CONNECTOR >			
C1034	1-164-346-11	CERAMIC CHIP 1MF	16V	CN001	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
< C1101 - C1108 FITTED ON >				CN002	*1-568-882-51	PIN, CONNECTOR 7P	
< KV-X2983B/X2983E/X2982U >				CN003	*1-568-879-11	PIN, CONNECTOR 4P	
C1101	1-163-131-00	CERAMIC CHIP 390PF	5% 50V	< DIODE >			
C1102	1-163-093-00	CERAMIC CHIP 10PF	5% 50V	D6	8-719-047-41	DIODE UMZ12N-T106	
C1103	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D7	8-719-988-62	DIODE ISS355	
C1104	1-126-964-11	ELECT 10MF	20% 50V	D9	8-719-988-62	DIODE ISS355	
C1105	1-126-964-11	ELECT 10MF	20% 50V	D11	8-719-988-62	DIODE ISS355	
C1106	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D101	8-719-977-81	DIODE DTZ33B	
C1107	1-124-126-00	ELECT 47MF	20% 16V				
C1108	1-126-964-11	ELECT 10MF	20% 50V				
C1110	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V (KV-X2982U)				
	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V (KV-X2983B)				

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D102	8-719-914-43	DIODE DAN202K (KV-X2983B)		L103	1-408-609-41	INDUCTOR 33UH	
D103	8-719-914-43	DIODE DAN202K (KV-X2983B/X2981D)		L104	1-414-170-11	INDUCTOR CHIP 100UH (KV-X2983B)	
	1-216-295-91	METAL GLAZE 0	5% 1/10W (KV-X2981K)	L105	1-408-406-00	INDUCTOR 5.6UH (KV-X2983B)	
D108	8-719-914-43	DIODE DAN202K (KV-X2981K)			1-408-410-00	INDUCTOR 12UH (KV-X2981A/X2981D/X2983E/X2981K/X2982U)	
D201	8-719-914-42	DIODE DA204K (KV-X2981A/X2983B/X2981D/X2983E/X2981K)		L106	1-412-011-31	INDUCTOR CHIP 27UH	
D301	8-719-988-62	DIODE 1SS355		L107	1-410-985-11	INDUCTOR CHIP 0.22UH	
D303	8-719-988-62	DIODE 1SS355		L108	1-408-409-00	INDUCTOR 10UH (KV-X2982U)	
D304	8-719-988-62	DIODE 1SS355			1-408-414-00	INDUCTOR 27UH (KV-X2983B)	
D305	8-719-988-62	DIODE 1SS355			1-408-609-41	INDUCTOR 33UH (KV-X2981A/X2981D/X2983E/X2981K)	
D314	8-719-047-16	DIODE BAS216		L109	1-412-010-41	INDUCTOR CHIP 22UH	
D315	8-719-988-62	DIODE 1SS355		L110	1-412-004-31	INDUCTOR CHIP 6.8UH	
D380	1-216-295-91	METAL GLAZE 0	5% 1/10W	L111	1-414-170-11	INDUCTOR CHIP 100UH	
D401	8-719-047-41	DIODE UMZ12N-T106		L112	1-410-200-31	INDUCTOR CHIP 4.7UH	
D402	8-719-047-41	DIODE UMZ12N-T106		L201	1-410-067-21	INDUCTOR 4.7MMH (KV-X2981A/X2983B/X2981D/X2983E/X2981K)	
D404	8-719-047-41	DIODE UMZ12N-T106		L307	1-408-609-41	INDUCTOR 33UH	
D405	8-719-047-41	DIODE UMZ12N-T106		L308	1-408-424-00	INDUCTOR 180UH	
D406	8-719-047-41	DIODE UMZ12N-T106		L309	1-408-424-00	INDUCTOR 180UH	
D407	8-719-047-41	DIODE UMZ12N-T106		L310	1-408-407-00	INDUCTOR 6.8UH	
D408	8-719-047-41	DIODE UMZ12N-T106		L313	1-216-295-91	METAL GLAZE 0 5% 1/10W	
D409	8-719-047-41	DIODE UMZ12N-T106		L315	1-412-008-11	INDUCTOR CHIP 15UH	
D410	8-719-047-41	DIODE UMZ12N-T106		L401	1-410-214-31	INDUCTOR CHIP 68UH	
D411	8-719-047-41	DIODE UMZ12N-T106		L1001	1-408-419-00	INDUCTOR CHIP 6.8UH	
D1002	8-719-914-43	DIODE DAN202K		L1002	1-408-419-00	INDUCTOR CHIP 6.8UH	
D1101	8-719-988-62	DIODE 1SS355 (KV-X2983B/X2983E/X2982U)		L1003	1-410-999-11	INDUCTOR CHIP 3.3UH	
D1102	8-719-820-71	DIODE 1SV214 (KV-X2983B/X2983E/X2982U)		L1101	1-412-004-31	INDUCTOR CHIP 6.8UH (KV-X2983B/X2983E/X2982U)	
< IC >				< TRANSISTOR >			
IC001	8-752-863-45	IC CXP85340A-SVS190-TL (KV-X2981A/X2983B/X2981D/X2981K)		Q4	8-729-901-01	TRANSISTOR DTC144EK	
	8-752-864-34	IC CXP85340A-SV5190-TL (KV-X2983E/X2982U)		Q8	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC002	8-759-334-20	IC ST24E32M6TR		Q11	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC003	8-759-041-54	IC MN1382S		Q12	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC101	8-759-277-66	IC TDA9814T/V2 (KV-X2983B)		Q14	8-729-920-74	TRANSISTOR 2SC2412K-QR	
	8-759-289-18	IC TDA9813T (KV-X2981A/X2981D/X2983E/X2981K/X2982U)		Q102	8-729-022-54	TRANSISTOR 2SC3779C,D-AA	
IC201	8-759-252-12	IC TDA6622-5X-GEG (KV-X2982U)		Q103	8-729-900-53	TRANSISTOR DTC114EK (KV-X2983B)	
	8-759-252-14	IC TDA6612-5X-GEG (KV-X2981A/X2983B/X2981D/X2983E/X2981K)		Q104	8-729-900-53	TRANSISTOR DTC114EK (KV-X2983B)	
IC202	8-759-514-57	IC BA7046F		Q105	8-729-900-53	TRANSISTOR DTC114EK (KV-X2983B)	
IC301	8-759-251-57	IC TDA8366T		Q107	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC302	8-759-288-85	IC TDA4665T		Q108	8-729-907-26	TRANSISTOR IMX1	
IC303	8-759-251-56	IC TDA8395T (KV-X2983B/X2981D/X2981K)		Q109	8-729-907-26	TRANSISTOR IMX1	
IC401	8-752-069-53	IC CXA1855Q		Q114	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC1001	8-759-295-92	IC CF72416DW-R		Q116	8-729-901-01	TRANSISTOR DTC144EK (KV-X2983B/X2981D)	
IC1002	8-759-252-10	IC CF70200FN R/C (KV-X2981A/X2983B/X2981D/X2983E/X2981K)		Q117	8-729-901-01	TRANSISTOR DTC144EK (KV-X2983B/X2981D)	
	8-759-296-78	IC CF70205FN R/B (KV-X2982U)		Q120	8-729-216-22	TRANSISTOR 2SA1162-G	
IC1003	8-759-300-71	IC HD14053BFP		Q121	8-729-216-22	TRANSISTOR 2SA1162-G (KV-X2983B)	
IC1101	8-759-251-58	IC SAA7283T (KV-X2983B/X2983E/X2982U)		Q123	8-729-901-01	TRANSISTOR DTC144EK	
< SOCKET >				Q124	8-729-901-01	TRANSISTOR DTC144EK	
J401	1-766-296-11	CONNECTOR, DUAL SCART		Q125	8-729-900-53	TRANSISTOR DTC114EK (KV-X2983B)	
< COIL >				Q126	8-729-901-01	TRANSISTOR DTC144EK (KV-X2981K)	
L1	1-410-385-11	INDUCTOR CHIP 22UH		Q127	8-729-901-01	TRANSISTOR DTC144EK (KV-X2981K)	
L100	1-410-989-11	INDUCTOR CHIP 0.47UH		Q128	8-729-901-01	TRANSISTOR DTC144EK (KV-X2981K)	
L101	1-408-609-41	INDUCTOR 33UH		Q130	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L102	1-410-214-31	INDUCTOR CHIP 68UH		Q131	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q132	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q133	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q134	8-729-900-53	TRANSISTOR DTC114EK	
				Q301	8-729-901-01	TRANSISTOR DTC114EK	
				Q304	8-729-920-74	TRANSISTOR 2SC2412K-QR	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q312	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR202	1-216-295-91	METAL GLAZE 0 5% 1/10W (KV-X2981A/X2981D/X2981K)	
Q313	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR302	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q314	8-729-900-53	TRANSISTOR DTC114EK		JR401	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q380	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR402	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q381	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q401	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR403	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q402	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR408	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q403	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR1004	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q404	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q406	8-729-216-22	TRANSISTOR 2SA1162-G		R6	1-216-025-00	METAL GLAZE 100 5% 1/10W	
Q407	8-729-920-65	TRANSISTOR DTC123EK		R20	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q408	8-729-920-74	TRANSISTOR 2SC2412K-QR		R21	1-216-033-00	METAL GLAZE 220 5% 1/10W	
Q1001	8-729-920-74	TRANSISTOR 2SC2412K-QR		R24	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
				R25	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
	< RESISTOR >			R26	1-126-194-00	METAL GLAZE 100 5% 1/8W	
JR3	1-216-295-91	METAL GLAZE 0 5% 1/10W		R27	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
JR8	1-216-295-91	METAL GLAZE 0 5% 1/10W		R29	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR9	1-216-295-91	METAL GLAZE 0 5% 1/10W		R31	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR10	1-216-295-91	METAL GLAZE 0 5% 1/10W		R33	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
JR12	1-216-295-91	METAL GLAZE 0 5% 1/10W					
JR13	1-216-295-91	METAL GLAZE 0 5% 1/10W		R35	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
JR14	1-216-295-91	METAL GLAZE 0 5% 1/10W		R37	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR15	1-216-295-91	METAL GLAZE 0 5% 1/10W		R38	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR16	1-216-295-91	METAL GLAZE 0 5% 1/10W		R41	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
JR17	1-216-295-91	METAL GLAZE 0 5% 1/10W		R42	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
JR18	1-216-295-91	METAL GLAZE 0 5% 1/10W		R43	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
JR19	1-216-295-91	METAL GLAZE 0 5% 1/10W		R44	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
JR22	1-216-295-91	METAL GLAZE 0 5% 1/10W		R46	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR25	1-412-006-31	INDUCTOR CHIP 10UH		R47	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
JR26	1-412-006-31	INDUCTOR CHIP 10UH		R49	1-216-025-00	METAL GLAZE 100 5% 1/10W	
JR28	1-216-296-00	METAL GLAZE 0 5% 1/8W		R50	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR29	1-412-006-31	INDUCTOR CHIP 10UH		R51	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR51	1-216-296-00	METAL GLAZE 0 5% 1/8W		R52	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR52	1-216-295-91	METAL GLAZE 0 5% 1/10W		R53	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
JR55	1-216-296-00	METAL GLAZE 0 5% 1/8W		R54	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR56	1-216-296-00	METAL GLAZE 0 5% 1/8W		R55	1-216-025-00	METAL GLAZE 100 5% 1/10W	
JR59	1-216-296-00	METAL GLAZE 0 5% 1/8W		R56	1-216-025-00	METAL GLAZE 100 5% 1/10W	
JR60	1-216-296-00	METAL GLAZE 0 5% 1/8W		R57	1-216-025-00	METAL GLAZE 100 5% 1/10W	
JR61	1-216-296-00	METAL GLAZE 0 5% 1/8W		R58	1-216-025-00	METAL GLAZE 100 5% 1/10W	
JR62	1-216-296-00	METAL GLAZE 0 5% 1/8W		R59	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
JR65	1-216-296-00	METAL GLAZE 0 5% 1/8W		R60	1-216-025-00	METAL GLAZE 100 5% 1/10W	
JR69	1-216-296-00	METAL GLAZE 0 5% 1/8W		R61	1-216-025-00	METAL GLAZE 100 5% 1/10W	
JR70	1-216-296-00	METAL GLAZE 0 5% 1/8W		R62	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
JR71	1-216-296-00	METAL GLAZE 0 5% 1/8W		R63	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
JR113	1-216-295-91	METAL GLAZE 0 5% 1/10W		R64	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
JR115	1-216-295-91	METAL GLAZE 0 5% 1/10W (KV-X2981K)		R66	1-216-033-00	METAL GLAZE 220 5% 1/10W	
JR120	1-216-295-91	METAL GLAZE 0 5% 1/10W		R67	1-216-025-00	METAL GLAZE 100 5% 1/10W	
JR122	1-216-295-91	METAL GLAZE 0 5% 1/10W (KV-X2981A/X2981D/X2983E/X2981K/X2982U)		R68	1-216-025-00	METAL GLAZE 100 5% 1/10W	
JR123	1-216-295-91	METAL GLAZE 0 5% 1/10W (KV-X2981A/X2981D/X2983E/X2981K/X2982U)		R69	1-216-025-00	METAL GLAZE 100 5% 1/10W	
JR124	1-216-295-91	METAL GLAZE 0 5% 1/10W		R70	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
JR125	1-216-295-91	METAL GLAZE 0 5% 1/10W (KV-X2981A/X2981D/X2983E/X2981K/X2982U)		R71	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
JR126	1-216-295-91	METAL GLAZE 0 5% 1/10W		R72	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
JR127	1-216-295-91	METAL GLAZE 0 5% 1/10W (KV-X2982U)		R73	1-216-677-11	METAL CHIP 12K 0.50% 1/10W	
JR201	1-216-295-91	METAL GLAZE 0 5% 1/10W (KV-X2981A/X2981D/X2981K)		R75	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
				R76	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
				R77	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
				R78	1-216-037-00	METAL GLAZE 330 5% 1/10W	
				R79	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
				R82	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
				R83	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
				R84	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
				R85	1-216-025-00	METAL GLAZE 100 5% 1/10W	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R86	1-216-025-00	METAL GLAZE	100 5% 1/10W		1-216-037-00	METAL GLAZE 330 5%	1/10W (KV-X2982U)
R87	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R88	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R89	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R148	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R90	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R149	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R91	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R150	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W (KV-X2982U)
R92	1-216-049-00	METAL GLAZE	1K 5% 1/10W		1-216-295-91	METAL GLAZE 0 5%	1/10W (KV-X2981A/X2983B/X2981D/X2983E/X2981K)
R93	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R94	1-216-039-00	METAL GLAZE	390 5% 1/10W	R151	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R95	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R152	1-216-174-00	METAL GLAZE 100 5%	1/8W
R96	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R153	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R97	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R154	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R99	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R155	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R101	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R156	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R103	1-216-679-11	METAL CHIP	15K 0.50% 1/10W	R157	1-216-295-91	METAL GLAZE 0 5%	1/10W
R104	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R160	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R105	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R106	1-216-025-00	METAL GLAZE	100 5% 1/10W	R161	1-216-029-00	METAL GLAZE 150 5%	1/10W (KV-X2982U)
R107	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W		1-216-031-00	METAL GLAZE 180 5%	1/10W (KV-X2981A/X2983B/X2981D/X2983E/X2981K)
R108	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R162	1-216-017-00	METAL GLAZE 47 5%	1/10W
R109	1-216-180-00	METAL GLAZE	180 5% 1/8W				
R110	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R163	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R111	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R164	1-216-025-00	METAL GLAZE 100 5%	1/10W
R112	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R165	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R113	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R166	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R114	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R167	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R115	1-218-755-11	METAL CHIP	130K 0.50% 1/10W				
R116	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R168	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R117	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R170	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R118	1-216-107-00	METAL GLAZE	270K 5% 1/10W	R171	1-216-035-00	METAL GLAZE 270 5%	1/10W
R119	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R172	1-216-295-91	METAL GLAZE 0 5%	1/10W
R120	1-216-035-00	METAL GLAZE	270 5% 1/10W	R173	1-216-035-00	METAL GLAZE 270 5%	1/10W
R121	1-216-035-00	METAL GLAZE	270 5% 1/10W				
R122	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R174	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R123	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R175	1-216-049-00	METAL GLAZE 1K 5%	1/10W (KV-X2981K)
R124	1-216-031-00	METAL GLAZE	180 5% 1/10W	R180	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R125	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R182	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R126	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R183	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R127	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R128	1-216-043-91	METAL GLAZE	560 5% 1/10W	R185	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R130	1-216-043-91	METAL GLAZE	560 5% 1/10W	R186	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R131	1-216-043-91	METAL GLAZE	560 5% 1/10W		< R188 - R191 FITTED ON > < KV-X2981K >		
R134	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W (KV-X2983B/X2981D/X2981K)	R188	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R135	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W (KV-X2983B/X2981D/X2981K)	R189	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R136	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R190	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R137	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R191	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R139	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R140	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R193	1-216-049-00	METAL GLAZE 1K 5%	1/10W (KV-X2983B)
R141	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R194	1-216-180-00	METAL GLAZE 180 5%	1/8W
R142	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R195	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R143	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W (KV-X2983B/X2981D/X2981K)	R196	1-216-017-00	METAL GLAZE 47 5%	1/10W
R144	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W				
R145	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R197	1-216-041-00	METAL GLAZE 470 5%	1/10W
R146	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R198	1-216-029-00	METAL GLAZE 150 5%	1/10W
R147	1-216-031-00	METAL GLAZE	180 5% 1/10W (KV-X2983B)	R199	1-216-049-00	METAL GLAZE 1K 5%	1/10W (KV-X2981A/X2981D/X2983E/X2981K/X2982U)
	1-216-033-00	METAL GLAZE	220 5% 1/10W (KV-X2981A/X2981D/X2983E/X2981K)		1-216-051-00	METAL GLAZE 1.2K 5%	1/10W (KV-X2983B)
				R200	1-216-047-00	METAL GLAZE 820 5%	1/10W
				R201	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
				R202	1-216-091-00	METAL GLAZE 56K 5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R203	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R387	1-216-041-00	METAL GLAZE	470 5% 1/10W
R204	1-216-025-00	METAL GLAZE	100 5% 1/10W	R388	1-216-041-00	METAL GLAZE	470 5% 1/10W
R205	1-216-025-00	METAL GLAZE	100 5% 1/10W	R389	1-216-041-00	METAL GLAZE	470 5% 1/10W
R206	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R390	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R207	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R392	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R210	1-216-025-00	METAL GLAZE	100 5% 1/10W	R393	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R211	1-216-025-00	METAL GLAZE	100 5% 1/10W	R401	1-216-039-00	METAL GLAZE	390 5% 1/10W
R213	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R402	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R216	1-216-685-11	METAL CHIP	27K 0.50% 1/10W	R403	1-216-039-00	METAL GLAZE	390 5% 1/10W
R217	1-216-031-00	METAL GLAZE	180 5% 1/10W	R404	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R219	1-216-025-00	METAL GLAZE	100 5% 1/10W	R405	1-216-039-00	METAL GLAZE	390 5% 1/10W
R220	1-216-174-00	METAL GLAZE	100 5% 1/8W	R406	1-216-039-00	METAL GLAZE	390 5% 1/10W
R221	1-216-025-00	METAL GLAZE	100 5% 1/10W	R407	1-216-198-91	METAL GLAZE	1K 5% 1/8W
R222	1-216-025-00	METAL GLAZE	100 5% 1/10W	R408	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R223	1-216-029-00	METAL GLAZE	150 5% 1/10W	R409	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R224	1-216-025-00	METAL GLAZE	100 5% 1/10W	R410	1-216-025-00	METAL GLAZE	100 5% 1/10W
R301	1-216-025-00	METAL GLAZE	100 5% 1/10W	R413	1-216-033-00	METAL GLAZE	220 5% 1/10W
R302	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R415	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R303	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R417	1-216-033-00	METAL GLAZE	220 5% 1/10W
R305	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R419	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R308	1-216-025-00	METAL GLAZE	100 5% 1/10W	R420	1-216-033-00	METAL GLAZE	220 5% 1/10W
R309	1-216-025-00	METAL GLAZE	100 5% 1/10W	R421	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R311	1-216-025-00	METAL GLAZE	100 5% 1/10W	R422	1-216-022-00	METAL GLAZE	75 5% 1/10W
R313	1-216-025-00	METAL GLAZE	100 5% 1/10W	R423	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R315	1-216-025-00	METAL GLAZE	100 5% 1/10W	R424	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R316	1-216-025-00	METAL GLAZE	100 5% 1/10W	R425	1-216-022-00	METAL GLAZE	75 5% 1/10W
R317	1-216-025-00	METAL GLAZE	100 5% 1/10W	R426	1-216-025-00	METAL GLAZE	100 5% 1/10W
R318	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R427	1-216-188-00	METAL GLAZE	390 5% 1/8W
R319	1-216-025-00	METAL GLAZE	100 5% 1/10W	R429	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R320	1-216-025-00	METAL GLAZE	100 5% 1/10W	R430	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R321	1-216-025-00	METAL GLAZE	100 5% 1/10W	R431	1-216-188-00	METAL GLAZE	390 5% 1/8W
R322	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R432	1-216-039-00	METAL GLAZE	390 5% 1/10W
R326	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R433	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R327	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R434	1-216-025-00	METAL GLAZE	100 5% 1/10W
R328	1-216-025-00	METAL GLAZE	100 5% 1/10W	R435	1-216-039-00	METAL GLAZE	390 5% 1/10W
R329	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R436	1-216-022-00	METAL GLAZE	75 5% 1/10W
R330	1-216-033-00	METAL GLAZE	220 5% 1/10W	R437	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R331	1-216-033-00	METAL GLAZE	220 5% 1/10W	R438	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R332	1-216-033-00	METAL GLAZE	220 5% 1/10W	R439	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R333	1-216-689-11	METAL CHIP	39K 0.50% 1/10W	R440	1-216-025-00	METAL GLAZE	100 5% 1/10W
R340	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R441	1-216-022-00	METAL GLAZE	75 5% 1/10W
R341	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R442	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R342	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R443	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R352	1-216-123-11	METAL GLAZE	1.2M 5% 1/10W	R444	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R354	1-216-025-00	METAL GLAZE	100 5% 1/10W	R445	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R355	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R446	1-216-025-00	METAL GLAZE	100 5% 1/10W
R356	1-216-025-00	METAL GLAZE	100 5% 1/10W	R447	1-216-025-00	METAL GLAZE	100 5% 1/10W
R364	1-216-041-00	METAL GLAZE	470 5% 1/10W	R448	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R365	1-216-027-00	METAL GLAZE	120 5% 1/10W	R449	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R370	1-216-033-00	METAL GLAZE	220 5% 1/10W	R454	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R371	1-216-033-00	METAL GLAZE	220 5% 1/10W	R458	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R372	1-216-033-00	METAL GLAZE	220 5% 1/10W	R461	1-216-019-00	METAL GLAZE	56 5% 1/10W (KV-X2982U)
R373	1-216-041-00	METAL GLAZE	470 5% 1/10W		1-216-022-00	METAL GLAZE	75 5% 1/10W (KV-X2981A/X2983B/X2981D/X2983E/X2981K)
R380	1-216-222-00	METAL GLAZE	10K 5% 1/8W	R464	1-216-034-00	METAL GLAZE	240 5% 1/10W
R381	1-216-025-00	METAL GLAZE	100 5% 1/10W	R465	1-216-025-00	METAL GLAZE	100 5% 1/10W
R382	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R473	1-216-022-00	METAL GLAZE	75 5% 1/10W
R383	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R474	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R384	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R482	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R385	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R386	1-216-041-00	METAL GLAZE	470 5% 1/10W				

A

C

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Ne les remplacer que par une
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The components identified by
shading and marked A are critical
for safety.
Replace only with the part number
specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R483	1-216-029-00	METAL GLAZE 150 5% 1/10W				< VARIABLE RESISTOR >	
R484	1-216-025-00	METAL GLAZE 100 5% 1/10W		RV102	1-241-765-11	RES, ADJ, CARBON 22K (KV-X2983B)	
R485	1-216-025-00	METAL GLAZE 100 5% 1/10W				< TRANSFORMER >	
R486	1-216-025-00	METAL GLAZE 100 5% 1/10W					
R487	1-216-022-00	METAL GLAZE 75 5% 1/10W		T101	1-403-686-11	COIL	
R488	1-216-022-00	METAL GLAZE 75 5% 1/10W				< TUNER >	
R489	1-216-022-00	METAL GLAZE 75 5% 1/10W					
R490	1-216-295-91	METAL GLAZE 0 5% 1/10W		TU101	1-693-184-11	TUNER (U944C) (KV-X2982U)	
R491	1-216-295-91	METAL GLAZE 0 5% 1/10W			1-693-185-11	TUNER (UV916H)	
R492	1-216-295-91	METAL GLAZE 0 5% 1/10W				(KV-X2981A/X2983B/X2981D/X2983E/X2981K)	
R1001	1-216-049-00	METAL GLAZE 1K 5% 1/10W				< CRYSTAL >	
R1002	1-216-025-00	METAL GLAZE 100 5% 1/10W					
R1004	1-216-049-00	METAL GLAZE 1K 5% 1/10W		X2	1-579-063-21	VIBRATOR, CERAMIC	
R1008	1-216-085-00	METAL GLAZE 33K 5% 1/10W		X301	1-567-505-11	OSCILLATOR, CRYSTAL	
R1009	1-216-025-00	METAL GLAZE 100 5% 1/10W		X302	1-567-504-11	OSCILLATOR, CRYSTAL	
R1010	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W		X1001	1-567-495-11	OSCILLATOR, CRYSTAL	
R1011	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W		X1101	1-579-689-21	VIBRATOR, CRYSTAL	
R1012	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W				(KV-X2983B/X2983E/X2982U)	
R1014	1-216-025-00	METAL GLAZE 100 5% 1/10W				*****	
R1015	1-216-025-00	METAL GLAZE 100 5% 1/10W				*A-1638-062-A C BOARD, COMPLETE	
R1016	1-216-049-00	METAL GLAZE 1K 5% 1/10W				*****	
R1025	1-216-033-00	METAL GLAZE 220 5% 1/10W				< CAPACITOR >	
R1026	1-216-033-00	METAL GLAZE 220 5% 1/10W		C702	1-102-824-00	CERAMIC 470PF 5% 50V	
R1027	1-216-033-00	METAL GLAZE 220 5% 1/10W		C703	1-102-115-91	CERAMIC 560PF 10% 50V	
R1029	1-216-025-00	METAL GLAZE 100 5% 1/10W		C704	1-102-116-00	CERAMIC 680PF 10% 50V	
R1101	1-216-025-00	METAL GLAZE 100 5% 1/10W		C706	1-102-113-00	CERAMIC 390PF 10% 50V	
		(KV-X2983B/X2983E/X2982U)		C708	1-162-114-00	CERAMIC 0.0047MF 2KV	
R1102	1-216-049-00	METAL GLAZE 1K 5% 1/10W					
		(KV-X2983B/X2983E/X2982U)		C709	1-102-114-00	CERAMIC 470PF 10% 50V	
R1103	1-220-149-11	METAL GLAZE 2.2 10% 1/2W		C710	1-107-652-11	ELECT 10MF 20% 250V	
		(KV-X2983B/X2983E/X2982U)		C712	1-102-115-91	CERAMIC 560PF 10% 50V	
R1104	1-216-085-00	METAL GLAZE 33K 5% 1/10W		C714	1-126-952-11	ELECT 1000MF 20% 16V	
		(KV-X2983B)		C717	1-102-114-00	CERAMIC 470PF 10% 50V	
	1-216-097-00	METAL GLAZE 100K 5% 1/10W					
		(KV-X2982U)		C718	1-102-114-00	CERAMIC 470PF 10% 50V	
R1105	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W		C719	1-102-114-00	CERAMIC 470PF 10% 50V	
		(KV-X2983B)				< CONNECTOR >	
	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		CN701	1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	
		(KV-X2982U)		CN703	*1-568-882-51	PIN, CONNECTOR 7P	
				CN705	1-505-915-11	PIN (CONTACT)	
		< R1106 - R1118 FITTED ON >					
		< KV-X2983B/X2983E/X2982U >					

C

D2

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< COIL >							
L704	1-408-609-41	INDUCTOR 33UH		C1854	1-126-967-11	ELECT 47MF	20% 50V
< TRANSISTOR >				C1855	1-137-370-11	FILM 0.01MF	5% 50V
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE		C1858	1-137-364-11	FILM 0.001MF	5% 50V
Q703	8-729-906-70	TRANSISTOR BF871		C1859	1-137-364-11	FILM 0.001MF	5% 50V
Q704	8-729-200-17	TRANSISTOR 2SA1091-O		C1860	1-130-489-00	FILM 0.033MF	5% 50V
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE		C1861	1-130-489-00	FILM 0.033MF	5% 50V
Q706	8-729-906-70	TRANSISTOR BF871		C1862	1-107-714-11	ELECT 10MF	20% 50V
Q707	8-729-200-17	TRANSISTOR 2SA1091-O		C1863	1-136-104-00	FILM 0.16MF	5% 200V
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE		C1867	1-126-103-11	ELECT 470MF	20% 16V
Q709	8-729-906-70	TRANSISTOR BF871		< CONNECTOR >			
Q710	8-729-200-17	TRANSISTOR 2SA1091-O		CN1823	1-573-299-21	CONNECTOR, BOARD TO BOARD 10P	
< RESISTOR >				CN1824	1-568-878-51	PLUG, CONNECTOR 3P	
R704	1-216-486-00	METAL OXIDE 8.2K 5% 3W F		< DIODE >			
R705	1-202-822-00	SOLID 2.2K 10% 1/2W		D1856	8-719-901-33	DIODE 1SS133	
R706	1-249-409-11	CARBON 220 5% 1/4W		D1867	8-719-987-87	DIODE ERA85-009	
R707	1-249-408-11	CARBON 180 5% 1/4W		D1868	8-719-987-87	DIODE ERA85-009	
R709	1-202-844-00	SOLID 330K 10% 1/2W		D1882	8-719-010-34	DIODE UZ-4.7BSC	
R711	1-249-420-11	CARBON 1.8K 5% 1/4W		D1883	8-719-010-34	DIODE UZ-4.7BSC	
R712	1-202-822-00	SOLID 2.2K 10% 1/2W		< IC >			
R713	1-215-493-00	METAL 1M 1% 1/4W		IC1851	8-759-991-41	IC LM78L05ACZ	
R714	1-216-486-00	METAL OXIDE 8.2K 5% 3W F		IC1852	8-759-603-37	IC M5216P	
R715	1-249-417-11	CARBON 1K 5% 1/4W		IC1853	8-759-902-21	IC SN74LS221N	
R716	1-249-409-11	CARBON 220 5% 1/4W		< COIL >			
R717	1-249-408-11	CARBON 180 5% 1/4W		L1852	1-459-390-00	COIL (WITH CORE)	
R718	1-202-814-11	SOLID 33K 10% 1/2W		< TRANSISTOR >			
R720	1-249-420-11	CARBON 1.8K 5% 1/4W		Q1851	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R722	1-202-848-00	SOLID 680K 10% 1/2W		Q1854	8-729-173-38	TRANSISTOR 2SA733-K	
R723	1-249-417-11	CARBON 1K 5% 1/4W		Q1855	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R724	1-202-846-00	SOLID 470K 10% 1/2W		Q1856	8-729-017-05	TRANSISTOR 2SA1837	
R726	1-202-822-00	SOLID 2.2K 10% 1/2W		Q1857	8-729-122-03	TRANSISTOR 2SA1220A-P	
R727	1-249-409-11	CARBON 220 5% 1/4W		Q1858	8-729-920-92	TRANSISTOR 2SD2096-EF	
R728	1-216-350-11	METAL OXIDE 1.2 5% 1W F		Q1859	8-729-173-38	TRANSISTOR 2SA733-K	
R729	1-249-408-11	CARBON 180 5% 1/4W		Q1860	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R731	1-249-420-11	CARBON 1.8K 5% 1/4W		Q1861	8-729-017-06	TRANSISTOR 2SC4793	
R732	1-215-479-00	METAL 270K 1% 1/4W		< RESISTOR >			
R734	1-247-807-31	CARBON 100 5% 1/4W		R1840	1-249-435-11	CARBON 33K 5% 1/4W	
R736	1-216-486-00	METAL OXIDE 8.2K 5% 3W F		R1841	1-249-438-11	CARBON 56K 5% 1/4W	
R737	1-215-485-00	METAL 470K 1% 1/4W		R1842	1-215-860-11	METAL 33 5% 1W	
R739	1-249-417-11	CARBON 1K 5% 1/4W		R1843	1-215-860-11	METAL 33 5% 1W	
R741	1-202-549-00	SOLID 100 20% 1/2W		R1852	1-249-437-11	CARBON 47K 5% 1/4W	
< VARIABLE RESISTOR >				R1853	1-249-438-11	CARBON 56K 5% 1/4W	
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M		R1854	1-249-429-11	CARBON 10K 5% 1/4W	
RV702	1-241-656-11	RES, ADJ, METAL FILM 110M		R1858	1-247-885-00	CARBON 180K 5% 1/4W	
*****				R1860	1-249-403-11	CARBON 68 5% 1/4W	
*A-1640-168-A D2 BOARD, COMPLETE				R1861	1-249-429-11	CARBON 10K 5% 1/4W	
*****				R1862	1-249-420-11	CARBON 1.8K 5% 1/4W	
< CAPACITOR >				R1863	1-215-475-00	METAL 180K 1% 1/4W	
C1840	1-107-714-11	ELECT 10MF 20% 50V		R1873	1-215-909-11	METAL OXIDE 47 5% 3W F	
C1841	1-107-714-11	ELECT 10MF 20% 50V		R1875	1-215-453-00	METAL 22K 1% 1/4W	
C1842	1-107-714-11	ELECT 10MF 20% 50V		R1877	1-249-441-11	CARBON 100K 5% 1/4W	
C1843	1-137-364-11	FILM 0.001MF 5% 50V		R1878	1-260-091-11	CARBON 220 5% 1/2W	
C1844	1-124-903-11	ELECT 1MF 20% 50V		R1881	1-260-091-11	CARBON 220 5% 1/2W	
C1851	1-126-103-11	ELECT 470MF 20% 16V		R1882	1-215-869-11	METAL OXIDE 1K 5% 1W F	

D2

D

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specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1893	1-215-909-11	METAL OXIDE 47 5% 3W	F	C621	1-136-165-00	FILM 0.1MF 5% 50V	
R1894	1-249-408-11	CARBON 180 5% 1/4W		C622	1-104-797-11	ELECT 0.47MF 20% 100V	
R1895	1-249-417-11	CARBON 1K 5% 1/4W		C623	1-104-666-11	ELECT 220MF 20% 25V	
R1898	1-249-411-11	CARBON 330 5% 1/4W		C624	1-136-165-00	FILM 0.1MF 5% 50V	
R1899	1-249-411-11	CARBON 330 5% 1/4W		C625	1-126-967-11	ELECT 47MF 20% 50V	
< VARIABLE RESISTOR >				C626	1-104-666-11	ELECT 220MF 20% 25V	
RV1845	1-241-784-11	RES, ADJ, CERMET 4.7K		C627	1-104-666-11	ELECT 220MF 20% 25V	
RV1851	1-241-765-11	RES, ADJ, CERMET 22K		C628	1-126-964-11	ELECT 10MF 20% 50V	
RV1853	1-241-628-11	RES, ADJ, CARBON 2.2K		C629	1-126-800-51	ELECT 2200MF 20% 25V	
< TRANSFORMER >				C630	1-126-800-51	ELECT 2200MF 20% 25V	
				C631	1-126-233-11	ELECT 22MF 20% 50V	

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The components identified by
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for safety.
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specified

KV-X298



D

Les composants identifiés par
une trame et une marque Δ
sont critiques pour la sécurité.
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pièce portant le numéro spécifié.

The components identified by
shading and marked Δ are critical
for safety.
Replace only with the part number
specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< IC LINK >							
PS600	Δ 1-532-686-91	LINK, IC 2.7A (ICP-F75)		R611	1-215-859-00	METAL OXIDE 22 5% 1W	F
PS601	Δ 1-532-686-91	LINK, IC 2.7A (ICP-F75)		R612	1-249-428-11	CARBON 8.2K 5% 1/4W	
PS602	Δ 1-532-686-91	LINK, IC 2.7A (ICP-F75)		R613	1-249-417-11	CARBON 1K 5% 1/4W	
PS603	Δ 1-532-686-91	LINK, IC 2.7A (ICP-F75)		R614	1-215-877-11	METAL OXIDE 22K 5% 1W	F
PS801	Δ 1-532-605-91	LINK, IC 0.4A (ICP-F10)		R615	1-249-435-11	CARBON 33K 5% 1/4W	
< TRANSISTOR >							
Q501	8-729-119-78	TRANSISTOR 2SC2785-HFE		R616	1-215-479-00	METAL 270K 1% 1/4W	
Q502	8-729-173-38	TRANSISTOR 2SA733-K		R617	1-215-901-00	METAL OXIDE 33K 5% 2W	F
Q503	8-729-900-89	TRANSISTOR DTC144ES		R618	1-247-863-91	CARBON 22K 5% 1/4W	
Q601	8-729-025-04	TRANSISTOR 2SC3852A		R619	1-216-425-11	METAL OXIDE 56 5% 1W	F
Q602	8-729-320-28	TRANSISTOR 2SA1667		R620	1-247-895-00	CARBON 470K 5% 1/4W	
Q603	8-729-027-08	TRANSISTOR 2SC2389STP-R		R621	1-216-425-11	METAL OXIDE 56 5% 1W	F
Q604	8-729-024-35	TRANSISTOR 2SC2808STP-R		R622	1-249-437-11	CARBON 47K 5% 1/4W	
Q605	8-729-119-78	TRANSISTOR 2SC2785-HFE		R623	1-249-429-11	CARBON 10K 5% 1/4W	
Q606	8-729-900-65	TRANSISTOR DTA144ES		R624	1-249-405-11	CARBON 100 5% 1/4W	F
Q607	8-729-119-78	TRANSISTOR 2SC2785-HFE		R625	1-249-434-11	CARBON 27K 5% 1/4W	
Q800	8-729-119-78	TRANSISTOR 2SC2785-HFE		R626	1-249-430-11	CARBON 12K 5% 1/4W	
Q801	8-729-017-06	TRANSISTOR 2SC4793		R628	1-249-415-11	CARBON 680 5% 1/4W	F
Q802	8-729-016-32	TRANSISTOR 2SC4927-01		R629	Δ 1-244-945-91	CARBON 1M 5% 1/2W	
Q803	8-729-119-80	TRANSISTOR 2SC2688-LK		R630	Δ 1-218-265-21	METAL 8.2M 5% 1W	
Q805	8-729-900-89	TRANSISTOR DTC144ES		R631	Δ 1-205-949-11	WIREWOUND 1.8 5% 10W	
Q1200	8-729-119-78	TRANSISTOR 2SC2785-HFE		R632	1-247-807-31	CARBON 100 5% 1/4W	
Q1201	8-729-900-74	TRANSISTOR DTC143TS		R633	1-247-807-31	CARBON 100 5% 1/4W	
Q1202	8-729-900-80	TRANSISTOR DTC144ES		R634	1-249-397-11	CARBON 22 5% 1/4W	F
Q1203	8-729-900-74	TRANSISTOR DTC143TS		R635	1-249-437-11	CARBON 47K 5% 1/4W	
Q1204	8-729-900-74	TRANSISTOR DTC143TS		R636	1-249-417-11	CARBON 1K 5% 1/4W	
< RESISTOR >							
R500	1-215-457-00	METAL 33K 1% 1/4W		R637	1-249-409-11	CARBON 220 5% 1/4W	
R502	1-249-421-11	CARBON 2.2K 5% 1/4W		R638	1-247-863-91	CARBON 22K 5% 1/4W	
R503	1-249-429-11	CARBON 10K 5% 1/4W		R639	1-215-427-00	METAL 1.8K 1% 1/4W	
R504	1-215-461-00	METAL 47K 1% 1/4W		R642	Δ 1-205-949-11	WIREWOUND 1.8 5% 10W	
R505	1-249-382-11	CARBON 1.2 5% 1/4W	F	R644	1-247-807-31	CARBON 100 5% 1/4W	
R506	1-215-443-00	METAL 8.2K 1% 1/4W		R645	1-249-422-11	CARBON 2.7K 5% 1/4W	
R507	1-215-888-00	METAL OXIDE 220 5% 2W	F	R646	1-249-377-11	CARBON 0.47 5% 1/4W	F
R508	1-216-371-00	METAL OXIDE 1.5 5% 2W	F	R647	1-202-933-61	FUSIBLE 0.1 10% 1/2W	F
R509	1-249-443-11	CARBON 0.47 5% 1/4W	F	R648	1-216-397-11	METAL OXIDE 4.7 5% 3W	F
R510	1-249-443-11	CARBON 0.47 5% 1/4W	F	R800	1-249-421-11	CARBON 2.2K 5% 1/4W	
R517	1-215-427-00	METAL 1.8K 1% 1/4W		R801	1-249-429-11	CARBON 10K 5% 1/4W	
R518	1-215-427-00	METAL 1.8K 1% 1/4W		R802	1-249-431-11	CARBON 15K 5% 1/4W	
R520	1-215-457-00	METAL 33K 1% 1/4W		R803	1-249-423-11	CARBON 3.3K 5% 1/4W	
R521	1-215-461-00	METAL 47K 1% 1/4W		R804	1-249-430-11	CARBON 12K 5% 1/4W	
R522	1-247-863-91	CARBON 22K 5% 1/4W		R805	1-249-425-11	CARBON 4.7K 5% 1/4W	
R523	1-247-863-91	CARBON 22K 5% 1/4W		R812	1-249-421-11	CARBON 2.2K 5% 1/4W	
R524	1-249-425-11	CARBON 4.7K 5% 1/4W		R813	1-215-867-00	METAL OXIDE 470 5% 1W	F
R525	1-249-425-11	CARBON 4.7K 5% 1/4W		R814	1-249-411-11	CARBON 330 5% 1/4W	
R526	1-249-421-11	CARBON 2.2K 5% 1/4W		R816	1-216-481-11	METAL OXIDE 1.2K 5% 3W	F
R527	1-215-438-00	METAL 5.1K 1% 1/4W		R817	1-216-481-11	METAL OXIDE 1.2K 5% 3W	F
R528	1-247-901-11	CARBON 820K 5% 1/4W		R818	1-215-882-00	METAL OXIDE 22 5% 2W	F
R529	1-247-895-00	CARBON 470K 5% 1/4W		R819	1-216-345-11	METAL OXIDE 0.47 5% 1W	F
R600	1-216-490-11	METAL OXIDE 39K 5% 3W	F	R820	1-249-403-11	CARBON 68 5% 1/4W	
R601	1-249-417-11	CARBON 1K 5% 1/4W		R821	1-215-909-11	METAL OXIDE 47 5% 3W	F
R603	1-215-875-11	METAL OXIDE 10K 5% 1W	F	R822	1-215-868-00	METAL OXIDE 680 5% 1W	F
R604	1-249-420-11	CARBON 1.8K 5% 1/4W		R824	1-249-420-11	CARBON 1.8K 5% 1/4W	
R605	1-216-362-11	METAL OXIDE 0.27 5% 2W	F	R826	1-247-752-11	CARBON 1K 5% 1/2W	
R607	1-216-421-11	METAL OXIDE 12 5% 1W	F	R827	1-249-425-11	CARBON 4.7K 5% 1/4W	
R608	1-216-365-00	METAL OXIDE 0.47 5% 2W	F	R828	1-249-427-11	CARBON 6.8K 5% 1/4W	
R610	1-215-427-00	METAL 1.8K 1% 1/4W		R829	1-249-493-11	CARBON 56K 5% 1/2W	
				R830	1-217-778-11	FUSIBLE 1K 5% 1W	F
				R833	1-249-421-11	CARBON 2.2K 5% 1/4W	F
				R836	1-249-439-11	CARBON 68K 5% 1/4W	
				R837	1-249-429-11	CARBON 10K 5% 1/4W	
				R840	1-247-807-31	CARBON 100 5% 1/4W	

Les composants identifiés par
une trame et une marque
sont critiques pour la sécurité.
Ne les remplacer que par une
pièce portant le numéro spécifié.

The components identified by
shading and marked / are critical
for safety.
Replace only with the part number
specified.

D VM

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R841	1-249-418-11	CARBON	1.2K 5% 1/4W	C1711	1-162-318-11	CERAMIC	0.001MF 10% 500V
R842	1-249-435-11	CARBON	33K 5% 1/4W	C1712	1-107-667-11	ELECT	2.2MF 20% 160V
R843	1-247-903-00	CARBON	1M 5% 1/4W	C1713	1-162-318-11	CERAMIC	0.001MF 10% 500V
R846	1-247-893-11	CARBON	390K 5% 1/4W	C1714	1-136-207-11	FILM	0.047MF 10% 250V
R847	1-247-897-11	CARBON	560K 5% 1/4W	C1716	1-124-907-11	ELECT	10MF 20% 50V
R848	1-249-438-11	CARBON	56K 5% 1/4W	C1718	1-124-120-11	ELECT	220MF 20% 16V
R849	1-249-429-11	CARBON	10K 5% 1/4W	C1719	1-124-927-11	ELECT	4.7MF 20% 50V
R850	1-249-425-11	CARBON	4.7K 5% 1/4W	< CONNECTOR >			
R851	1-215-898-11	METAL OXIDE	10K 5% 2W F	CN1819	*1-568-882-51	PIN, CONNECTOR 7P	
R852	1-249-432-11	CARBON	18K 5% 1/4W	< DIODE >			
R901	1-202-539-00	SOLID	39 10% 1/2W	D1701	8-719-901-33	DIODE 1SS133	
R902	1-202-539-00	SOLID	39 10% 1/2W	D1702	8-719-901-33	DIODE 1SS133	
R907	1-247-804-11	CARBON	75 5% 1/4W	D1703	8-719-901-33	DIODE 1SS133	
R916	1-247-791-91	CARBON	22 5% 1/4W	D1704	8-719-982-37	DIODE MTZJ-39C	
R917	1-247-791-91	CARBON	22 5% 1/4W	D1705	8-719-982-37	DIODE MTZJ-39C	
R1200	1-249-425-11	CARBON	4.7K 5% 1/4W	D1706	8-719-901-33	DIODE 1SS133	
R1201	1-249-434-11	CARBON	27K 5% 1/4W	D1707	8-719-901-33	DIODE 1SS133	
R1202	1-249-393-11	CARBON	10 5% 1/4W F	< COIL >			
R1203	1-249-421-11	CARBON	2.2K 5% 1/4W	L1701	1-408-417-00	INDUCTOR	47UH
R1204	1-249-421-11	CARBON	2.2K 5% 1/4W	L1702	1-408-418-00	INDUCTOR	56UH
R1205	1-249-428-11	CARBON	8.2K 5% 1/4W	< TRANSISTOR >			
R1206	1-249-428-11	CARBON	8.2K 5% 1/4W	Q1701	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R1208	1-212-849-00	FUSIBLE	4.7 5% 1/4W F	Q1702	8-729-173-38	TRANSISTOR 2SA733-K	
R1209	1-212-849-00	FUSIBLE	4.7 5% 1/4W F	Q1703	8-729-017-05	TRANSISTOR 2SA1837	
R1211	1-249-424-11	CARBON	3.9K 5% 1/4W	Q1704	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R1212	1-249-424-11	CARBON	3.9K 5% 1/4W	Q1705	8-729-017-06	TRANSISTOR 2SC4793	
R1213	1-249-421-11	CARBON	2.2K 5% 1/4W	Q1706	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R1216	1-249-413-11	CARBON	470 5% 1/4W	Q1707	8-729-140-96	TRANSISTOR 2SD774-34	
R1217	1-249-425-11	CARBON	4.7K 5% 1/4W	Q1708	8-729-901-59	TRANSISTOR BF199	
< VARIABLE RESISTOR >				Q1709	8-729-255-12	TRANSISTOR 2SC2551-0	
RV301	1-238-552-11	RES, ADJ, CARBON 470K		< RESISTOR >			
< RELAY >				R1701	1-247-807-31	CARBON	100 5% 1/4W
RY600	1-755-018-11	RELAY		R1702	1-249-420-11	CARBON	1.8K 5% 1/4W
< SPARK GAP >				R1703	1-247-807-31	CARBON	100 5% 1/4W
SG801	1-519-422-11	GAP, SPARK		R1704	1-249-420-11	CARBON	1.8K 5% 1/4W
< THERMISTOR >				R1705	1-247-736-11	CARBON	56 5% 1/2W F
THP600	1-809-827-11	THERMISTOR, POSITIVE		R1706	1-249-414-11	CARBON	560 5% 1/4W F
*****				R1707	1-249-412-11	CARBON	390 5% 1/4W
*A-1644-028-A VM BOARD, COMPLETE				R1709	1-249-416-11	CARBON	820 5% 1/4W
*****				R1710	1-249-385-11	CARBON	2.2 5% 1/4W F
*4-368-683-21 SPRING, TRANSISTOR				R1711	1-249-432-11	CARBON	18K 5% 1/4W
< CAPACITOR >				R1712	1-249-435-11	CARBON	33K 5% 1/4W
C1701	1-124-119-00	ELECT	330MF 20% 16V	R1713	1-249-438-11	CARBON	56K 5% 1/4W
C1702	1-101-880-00	CERAMIC	47PF 5% 50V	R1714	1-249-429-11	CARBON	10K 5% 1/4W
C1703	1-164-082-11	CERAMIC	560PF 10% 50V	R1715	1-216-476-11	METAL OXIDE	180 5% 3W F
C1704	1-161-830-00	CERAMIC	0.0047MF 500V	R1716	1-249-417-11	CARBON	1K 5% 1/4W F
C1705	1-124-120-11	ELECT	220MF 20% 16V	R1717	1-249-432-11	CARBON	18K 5% 1/4W
C1706	1-123-935-00	ELECT	33MF 20% 160V	R1718	1-249-410-11	CARBON	270 5% 1/4W
C1707	1-124-907-11	ELECT	10MF 20% 50V	R1719	1-249-419-11	CARBON	1.5K 5% 1/4W
C1708	1-101-006-00	CERAMIC	0.047MF 50V	R1720	1-249-441-11	CARBON	100K 5% 1/4W
C1709	1-108-704-11	MYLAR	0.1MF 10% 200V	R1721	1-249-414-11	CARBON	560 5% 1/4W
C1710	1-136-207-11	FILM	0.047MF 10% 250V	R1722	1-249-385-11	CARBON	2.2 5% 1/4W F
				R1723	1-249-429-11	CARBON	10K 5% 1/4W
				R1724	1-249-436-11	CARBON	39K 5% 1/4W
				R1725	1-249-417-11	CARBON	1K 5% 1/4W

VM

H1

H2

H3

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REF.NO.	PART NO.	DESCRIPTION	REMARK
R1726	1-249-411-11	CARBON 330 5% 1/4W	
R1727	1-249-402-11	CARBON 56 5% 1/4W F	
R1729	1-216-451-11	METAL OXIDE 120 5% 2W F	
R1731	1-249-420-11	CARBON 1.8K 5% 1/4W	
R1732	1-249-426-11	CARBON 5.6K 5% 1/4W	
R1734	1-249-419-11	CARBON 1.5K 5% 1/4W	

*1-656-732-11 H1 BOARD

< CAPACITOR >

C900	1-101-810-00	CERAMIC 100PF 5% 500V	
C901	1-101-810-00	CERAMIC 100PF 5% 500V	
C902	1-137-372-11	FILM 0.022MF 5% 50V	
C903	1-137-372-11	FILM 0.022MF 5% 50V	
C907	1-124-903-11	ELECT 1MF 20% 50V	

< CONNECTOR >

CN900	1-568-678-11	TERMINAL BLOCK, S 3P	
CN906	*1-564-516-11	PLUG, CONNECTOR 13P	

< SOCKET >

J900	1-764-606-11	JACK	
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< COIL >

L900	1-408-409-00	INDUCTOR 10UH	
L901	1-408-409-00	INDUCTOR 10UH	
L902	1-408-409-00	INDUCTOR 10UH	
L903	1-408-409-00	INDUCTOR 10UH	

< RESISTOR >

R905	1-247-804-11	CARBON 75 5% 1/4W	
R906	1-247-804-11	CARBON 75 5% 1/4W	
R909	1-249-437-11	CARBON 47K 5% 1/4W	
R910	1-249-437-11	CARBON 47K 5% 1/4W	
R915	1-247-791-91	CARBON 22 5% 1/4W	

*1-656-733-11 H2 BOARD

< CAPACITOR >

C904	1-124-910-11	ELECT 47MF 20% 50V	
C905	1-124-907-11	ELECT 10MF 20% 50V	

< CONNECTOR >

CN907	*1-564-509-11	PLUG, CONNECTOR 6P	
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< DIODE >

D901	8-719-030-11	DIODE SLA-570KT3F	
	4-202-707-01	HOLDER, LED (D901)	

< IC >

IC900	8-741-790-11	IC SBX1790	
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< RESISTOR >

R900	1-249-409-11	CARBON 220 5% 1/4W	
R908	1-249-401-11	CARBON 47 5% 1/4W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*1-656-734-11	H3 BOARD *****	

< CONNECTOR >

CN908	1-564-506-11	PLUG, CONNECTOR 3P	
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< RESISTOR >

R911	1-249-423-11	CARBON 3.3K 5% 1/4W	
R912	1-249-429-11	CARBON 10K 5% 1/4W	
R913	1-249-423-11	CARBON 3.3K 5% 1/4W	
R914	1-249-429-11	CARBON 10K 5% 1/4W	

< SWITCH >

S900	1-692-979-11	SWITCH, TACTILE	
S901	1-692-979-11	SWITCH, TACTILE	
S902	1-692-979-11	SWITCH, TACTILE	

MISCELLANEOUS

Δ	1-406-807-11	COIL, DEGAUSSING	
	1-452-032-00	MAGNET, DISK; 10MM $\emptyset$	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\emptyset$	
Δ	1-452-509-41	NECK ASSY, PICTURE TUBE (NA-308)	
Δ	1-453-169-11	TRANSFORMER ASSY, FLYBACK (UX-1604A2)	

	1-504-819-11	SPEAKER	
Δ	1-571-433-11	SWITCH, PUSH (AC POWER)	
Δ	1-590-460-11	CORD, POWER (WITH CONNECTOR) (KV-X2983B/X2983E/X2981K)	
Δ	1-590-762-11	CORD, POWER (WITH PLUG) (KV-X2982U)	
Δ	1-751-680-11	CORD, POWER (WITH NOISE FILTER) (KV-X2981A/X2981D)	

	1-693-184-11	TUNER (U944C) (KV-X2982U)	
	1-693-185-11	TUNER (UV916H) (EXCEPT KV-X2982U)	
Δ	8-451-422-11	DEFLECTION YOKE (Y29GXA)	
V901 Δ	8-733-853-05	PICTURE TUBE (SD-269) (M68LCT60X)	

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
ACCESSORIES AND PACKING MATERIALS							

4-039-906-01		BAG, PROTECTION					
4-042-126-01		CUSHION (UPPER) (ASSY)					
4-042-127-01		CUSHION (LOWER) (ASSY)					
4-042-128-01		INDIVIDUAL CARTON					
4-202-955-11		MANUAL, INSTRUCTION (KV-X2981D)					
		(DUTCH/ENGLISH/GERMAN/GREEK/TURKISH)					
4-202-955-41		MANUAL, INSTRUCTION (KV-X2981A)					
		(ITALIAN)					
4-202-955-51		MANUAL, INSTRUCTION (KV-X2983B)					
		(FRENCH/GERMAN/ITALIAN)					
4-202-955-61		MANUAL, INSTRUCTION (KV-X2982U)					
		(ENGLISH)					
4-202-955-71		MANUAL, INSTRUCTION (SET.E) (KV-X2983E)					
		(DANISH/DUTCH/FINISH/FRENCH/GERMAN/ NORWEGIAN/PORTUGUESE/SPANISH/SWEEDISH)					
4-202-955-81		MANUAL, INSTRUCTION (SET.G) (KV-X2983E)					
		(DANISH/DUTCH/FINISH/FRENCH/GERMAN/ NORWEGIAN/PORTUGUESE/SPANISH/SWEEDISH)					
4-202-955-91		MANUAL, INSTRUCTION (KV-X2981K)					
		(BULGARIAN/CZECHOSLOVAKIAN/ENGLISH/ HUNGARIAN/POLISH/ROSSIAN)					
REMOTE COMMANDER							

1-467-706-11		COMMANDER, STANDARD TYPE (RM-833)					

MEMO

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.