

SERVICE MANUAL

FE-1 CHASSIS

<i>MODEL</i>	<i>COMMANDER</i>	<i>DEST</i>	<i>CHASSIS NO.</i>	<i>MODEL</i>	<i>COMMANDER</i>	<i>DEST</i>	<i>CHASSIS NO.</i>
KV-25M2A	RM-883	Italian	SCC-Q06G-A	KV-25T2E	RM-883	Spanish	SCC-Q05H-A
KV-25T2A	RM-883	Italian	SCC-Q06H-A	KV-25M2K	RM-883	OIRT	SCC-Q03J-A
KV-25T2B	RM-883	French	SCC-Q02G-A	KV-25T2K	RM-883	OIRT	SCC-Q03K-A
KV-25M2D	RM-883	AEP	SCC-Q04G-A	KV-25T2R	RM-883	OIRT	SCC-Q03L-A
KV-25T2D	RM-883	AEP	SCC-Q04H-A	KV-25T2L	RM-883	Irish	SCC-Q07C-A
KV-25M2E	RM-883	Spanish	SCC-Q05G-A	KV-25T2U	RM-883	UK	SCC-Q01E-A



TRINITRON® COLOR TV
SONY®

KV-25M2/25T2

ITEM MODEL	Television System	Channel Coverage	Color System
Italian	B/G/H	VHF : E02-E12, A-H2 UHF : E21-E69 CABLE TV : S01-S05, S1-S20 HYPER : S21-S41	PAL
French	B/G/H, L	VHF : E02-E12, R01-R12, F2-F10, A-H2 UHF : E21-E69, B21-B69, R21-R69, F21-F69 CABLE TV : S01-S05, S1-S20 HYPER : S21-S41	PAL, SECAM
AEP	B/G/H	VHF : E02-E12, A-H2, R01-R12 UHF : E21-E69, B21-B69, R21-R69, F21-F69 CABLE TV : S01-S05, S1-S20 HYPER : S21-S41	PAL, SECAM
Spanish	B/G/H	VHF : E02-E12, A-H2, R01-R12 UHF : E21-E69, R21-R69 CABLE TV : S01-S05, S1-S20 HYPER : S21-S41	PAL, SECAM
OIRT	B/G/H, D/K	VHF : E2-E12, R01-R12, A-H2 UHF : E21-E69, R21-R69 CABLE TV : S01-S05, S1-S20 HYPER : S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Irish	I	VHF : E02-E12, A-H2 UHF : B21-B69 CABLE TV : S01-S05, S1-S20 HYPER : S21-S46	PAL
UK	I	UHF : B21-B69	PAL

MODEL	25M2A 25T2A	25T2B	25M2D 25T2D	25M2E 25T2E	25M2K 25T2K	25T2R	25T2L	25T2U
Power Consumption	92 W	92 W	92 W	92 W	92 W	92 W	115 W	115 W

[PICTURE TUBE]

Super Trinitron
Approx. 63 cm (25 inches)
(Approx. 59 cm picture measured
diagonally)
110 degree deflection

Sound output 7W (Music Power)
Power requirements 220 - 240V
Dimensions Approx 604x549x508mm
Weight Approx 31 kg
Supplied accessories RM-883 Remote Commander (1)
IEC designated R6 battery (2)
Other features TELETEXT (For KV-25T2 models)

Input/Output Terminals

[REAR]

-  **1/**  21-pin Euro connector (CENELEC standard).
- Inputs for Audio and Video signals.
 - Inputs for RGB.
 - Outputs of TV Video and Audio signals.

[RM-883]

Remote control system Infrared control
Power requirements 3V dc
2 batteries IEC designation
R6 (size AA)
Dimensions Approx 65x225x21mm (w/h/d)
Weight Approx 157g (Not including battery)

[FRONT]

-  **2** Video input - phono jack
-  Audio input - phono jack
-  Headphone jack : minijack

Design and specifications are subject to change without notice.

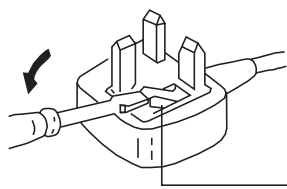
Model Name	KV-25M2A		KV-25M2D	KV-25M2E	KV-25M2K			
Item	KV-25T2A	KV-25T2B	KV-25T2D	KV-25T2E	KV-25T2K	KV-25T2L	KV-25T2R	KV-25T2U
Pal Comb	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
PIP	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Woofer Box	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON	ON	ON	ON	ON
Scart 2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Front in (3)	ON	ON	ON	ON	ON	ON	ON	ON
Scart 4	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Projector	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON	ON	OFF	ON	OFF
Norm I	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON
Norm D/K	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Language Preset	Italian	French	German	Spanish	OIRT	English	OIRT	English

WARNING (KV-25T2L / KV-25T2U only)

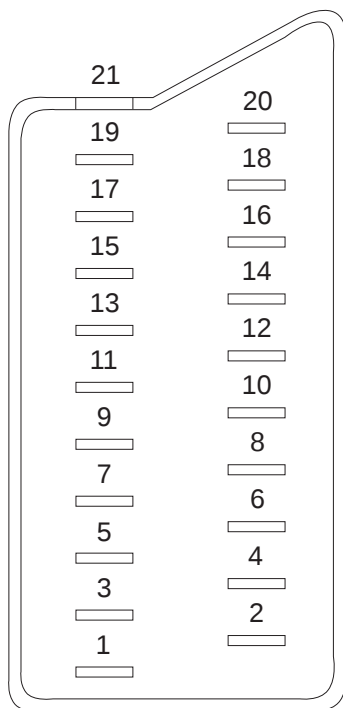
The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** capacity. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by **ASTA** to **BS 1362**, ie one that carries the  mark.

IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS 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 OUTLET SOCKET.

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 a screwdriver blade and replace the fuse.



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 output 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 : 75 ohms
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

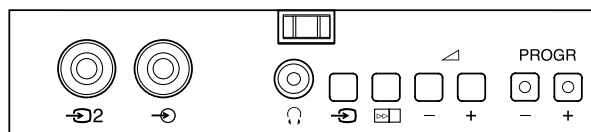


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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE 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 LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE 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 SUPPLEMENTS 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 TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ !!

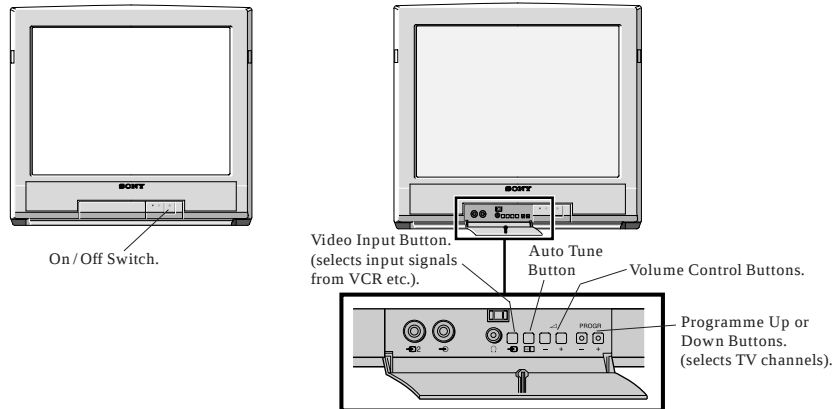
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL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

SECTION 1 GENERAL

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

Basic TV Features

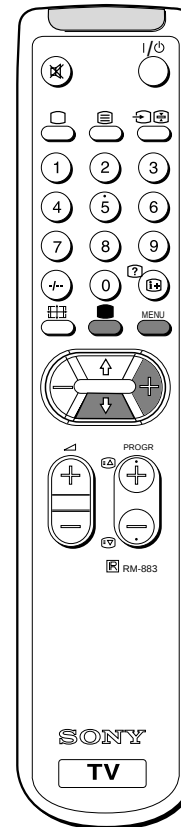
Overview of TV Buttons



Additional TV Features

Using Select Mode

You can select different preset picture and sound modes.



1 Press the MENU button on the remote control to display the menu on the TV screen.

2 With the cursor pointing at the  symbol on the TV screen as shown, press the yellow button.

3 Press the blue button to select the desired mode:

-  Personal Mode - reverts to settings made in "Adjusting the Picture and Sound" sections of the manual
-  Movie Mode - for films
-  Live Mode - for programmes broadcast live

4 Press the MENU button to remove the menu display from the TV screen.

Note: The mode selected in step 3 is now stored.

Changing Modes Quickly

- 1** Press the  button on the remote control to display the three different modes.
- 2** Press the  button again to select your desired mode.

Overview of Remote Control Buttons

To Mute Sound

Press to mute TV sound. Press again to restore the sound.

To Select Channels

Press to select channels.

For double-digit programme numbers, e.g. 23, press  first, then the buttons 2 and 3.

To Change Screen Format

Press to view programmes in 16:9 mode. Press again to return to 4:3 mode.

To Adjust TV Volume

Press to adjust the volume of the TV.

To Temporarily Switch Off TV

Press to temporarily switch off TV. Press again to switch on TV from standby mode.

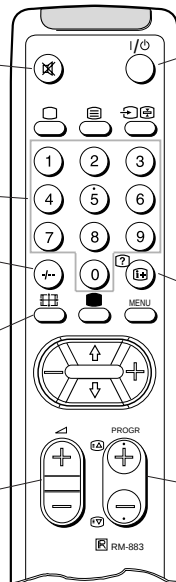
To save energy we recommend switching off completely when TV is not in use.
NOTE: After 15 -30 minutes without a TV signal and without any button being pressed, the TV switches automatically into standby mode.

To Reveal On Screen Information

Press to reveal all on-screen indications. Press again to cancel.

To Select Channels

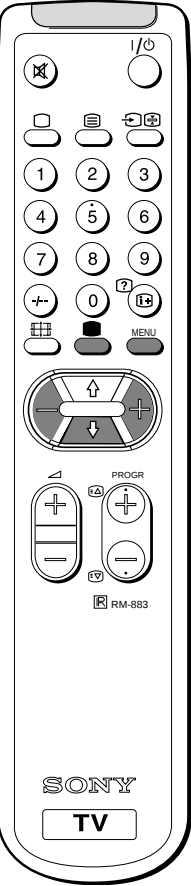
Press to select channels.



Additional TV Features

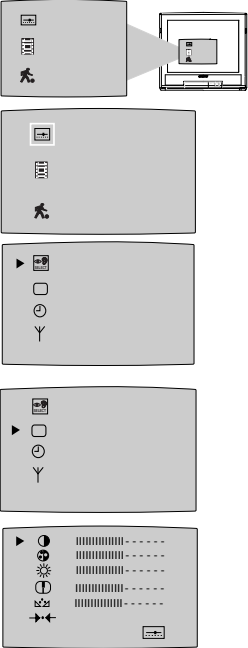
Adjusting the Picture

Although the picture is adjusted at the factory, you can modify it to suit your own requirement.



- 1 Press the button on the remote control to display the three different modes on the TV screen.
- 2 Press the button to highlight the personal mode symbol as shown.
- 3 Press the MENU button to display the menu on the TV screen.
- 4 Press the blue button on the control to select the symbol on the TV screen then press the yellow button.
- 5 Press the blue button to select the item you wish to change (see below).
- 6 Press the red or yellow button to alter the selected item.
- 7 Press the MENU button to remove the menu display from the TV screen.

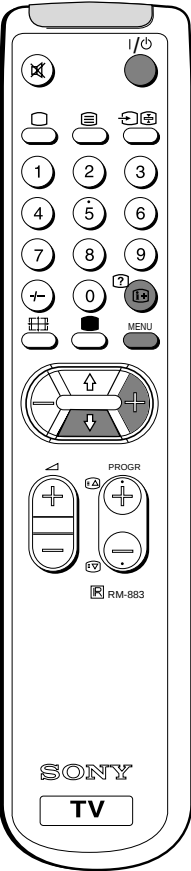
Symbol	Item
	• Contrast
	• Colour
	• Brightness
	• Sharpness
	• Hue control (only for NTSC video signals)
	• Reset - resets to factory preset picture level
	• Represents the mode selected in the "Using Select Mode" section.



Additional TV Features

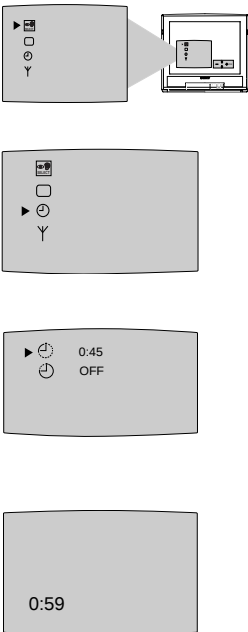
Using the Sleep Timer

The TV may be set to switch automatically to the standby mode after a length of time chosen by you. You may set the time in 15 minute steps up to 4 hours.



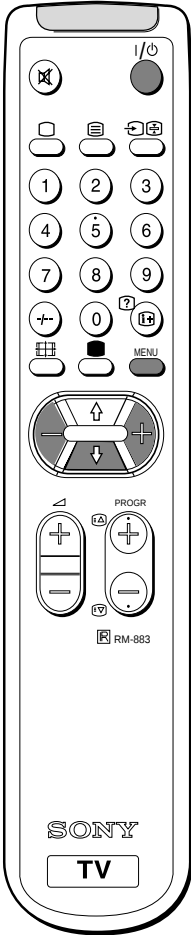
- 1 Press the MENU button on the remote control to display the menu on the TV screen.
- 2 Press the blue button on the control to select the symbol on the TV screen, then press the yellow button.
- 3 Press the yellow button repeatedly until the required amount of time delay appears on the screen.
- 4 Once the time delay has been selected, press the MENU button to remove the on-screen display.

- Notes:
- When watching TV, press the button to display time remaining.
 - To return to normal operation from standby mode, press the button.



Using the Wake Up Timer

The TV may be set to switch automatically to the standby mode after a length of time chosen by you. You may set the time in 15 minute steps up to 12 hours.

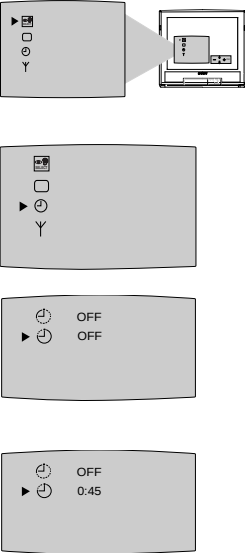


- 1 Press the MENU button on the remote control to display the menu on the TV screen.
- 2 Press the blue button on the control to select the symbol on the TV screen, then press the yellow button.
- 3 Press the blue button on the control to select the symbol on the TV screen, then press the yellow button.
- 4 Press the red or yellow button to set the time.

0:00 (OFF) 0:15 0:30 0:45 -----12:00
- 5 Press the standby button I/⏻.
The standby indicator on the TV flashes regularly to indicate that the Wake Up Timer is active. After the selected length of time, the TV switches on automatically.

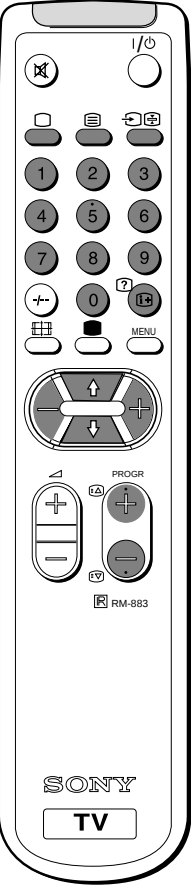
Notes:

- If you use the “Wake Up Timer” to switch the TV on and for one hour after switching on, no TV or Remote Control button is pressed, the TV switches itself back into Standby mode and the indicator ⏻ on the TV lights.
- Any temporary power failure will cause a misfunction in the “Wake Up Timer” and you will have to reset the “Wake Up Timer”.



Viewing Teletext

Teletext is an information service transmitted by most TV stations.



Selecting Teletext

- 1 Press a number button on the remote control to select the channel which carries the teletext service you wish to receive.
- 2 Press the button on the remote control to switch on teletext.
- 3 Input three digits for the page number using the numbered buttons on the control.
- 4 Press the button to switch off teletext.

Note: Teletext errors may occur if the broadcasting signals are weak.

Using Other Teletext Functions

To Superimpose Teletext on to the TV

Press once in teletext mode or twice in TV mode to superimpose teletext on to the TV screen.
Press again to cancel teletext mode.

To Move to Next or Preceding Page

Press PROG + / - on the remote control to select the previous or next page.

To Freeze a Teletext Page

Press on the control to freeze the page.
Press again to cancel the freeze.

Revealing concealed information (eg: answers to a quiz).

Press to reveal information.
Press again to conceal the information.

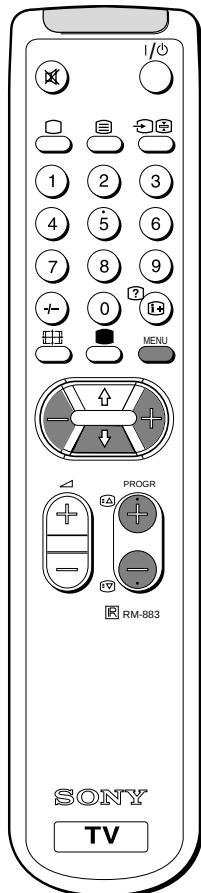
Using colour buttons to access pages (Fastext)

When the colour coded menu appears at the bottom of a page, press the colour button (green, red, yellow or blue) to access the corresponding page.

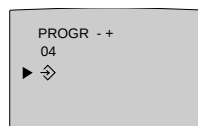
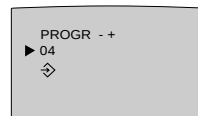
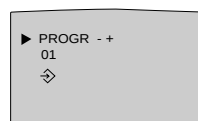
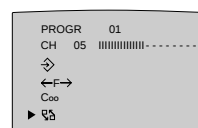
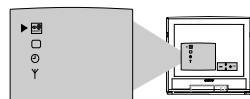


Exchanging Programme Positions

After tuning you may wish to change the order in which the channels appear on the TV. You may wish for example to exchange the channel on programme number 8 with the channel on programme number 4.

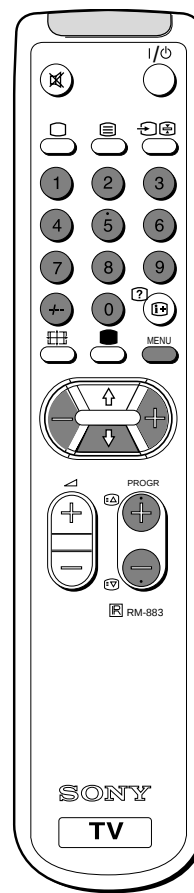


- 1 Press the MENU button on the remote control.
- 2 Press the blue button on the control to select on the TV screen, then press the yellow button.
- 3 Press the blue button to select then press the yellow button.
- 4 With the cursor pointing at PROGR on the TV screen as shown, press PROGR + or - button until the channel you wish to rearrange appears on screen, then press the blue button once.
- 5 Press the red or yellow button to select the new programme number (e.g. PROGR 04) for your selected channel.
- 6 Press the blue button to select then press the yellow button to exchange the channels.
- 7 Repeat steps 4 to 6 if you wish to change the order of the other channels on your TV, then press MENU to return to normal TV screen.
- 8 Press the PROGR +/- button to view your selected channels on their new programme numbers.

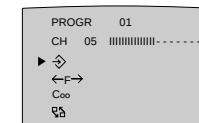
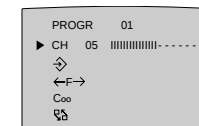
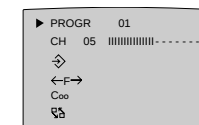
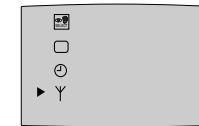


Manually Tuning the TV

You have already tuned the TV to receive all available channels using the 'Automatically Tuning the TV' procedure at the start of this manual. You can however carry out this operation manually using the following instructions.

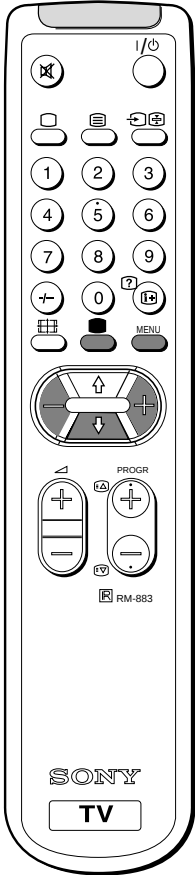


- 1 Press the MENU button on the remote control to display the menu on the TV screen.
- 2 Press the blue button to select the symbol on the TV screen then press the yellow button.
- 3 With the cursor pointing at PROGR on the TV screen as shown, press PROGR + or - button on the remote control to allocate a programme number to the channel (eg PROGR 01). For double digit numbers e.g. 55, press the -/-- button on the remote control then the corresponding numbered buttons.
- 4 Press the blue button to select the tuning bar scale then press the yellow or red button once to start the channel search. (Yellow to search up the scale or red to search down). When a channel is found it appears on the TV screen.
- 5 If you do not wish to store this channel on the programme number you selected, press the yellow or red button to continue searching for the desired channel.
- 6 If this is the channel you wish to store, press the blue button to select the symbol on the screen then press the yellow button to store.
- 7 Repeat steps 3 to 6 if you wish to store more channels then press the MENU button to remove the menu from the TV screen.

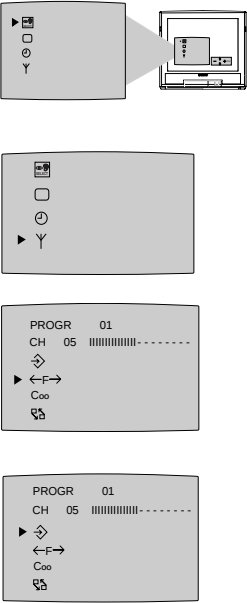


Fine-Tuning Channels

If a channel is slightly off tune, you can use this fine tune procedure to obtain a better picture reception.



- 1 With the channel you wish to fine-tune on the screen, press the MENU button on the remote control. The menu display appears on the TV screen.
- 2 Press the blue button on the remote control to select the Y symbol on the TV screen then press the yellow button.
- 3 Press the blue button to select the <F> symbol on the TV screen then press the red or yellow button to adjust the tuning.
- 4 Press the blue button to select the <D> symbol on the TV screen then press the yellow button to store.
- 5 Press the MENU button to remove the menu from the TV screen.



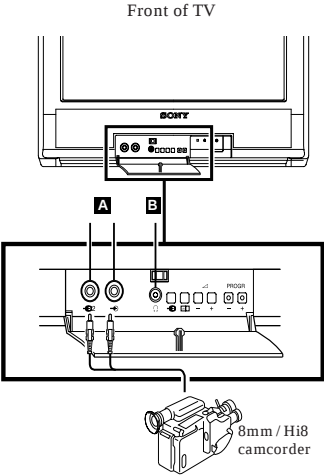
Using Optional Equipment

You can connect optional audio or video equipment to your TV, such as a VCR, a camcorder or video games as shown.

Select and View the Input Signal

- 1 Connect your equipment to the designated TV socket.
 - 2 Press the <I> button repeatedly on your remote control until the correct input symbol appears on the TV screen.
- | Symbol | Input signals |
|--------|---|
| <1> | • Audio / video input signal through the Euro AV connector C |
| <I> | • RGB input signal through the Euro AV connector C |
| <2> | • Audio / video input signal through the phono sockets A |
- 3 Switch on the connected equipment.
 - 4 To return to normal TV picture, press the <O> button on the remote control.

NOTE: To avoid picture distortion, do not connect equipment to the **A** and **C** connectors at the same time.



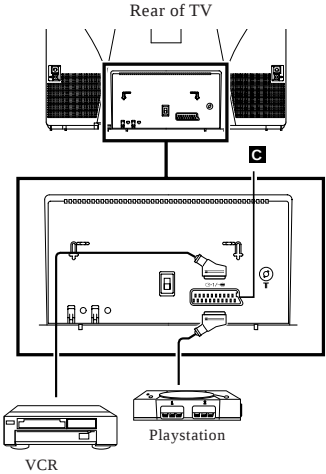
Additional Information

Connecting a VCR

We recommend you tune in the VCR signal to TV programme number '0' using the 'Manually Tuning in the TV' section of this instruction manual.

Connecting Headphones

Plug in your headphones to the socket **B** on the front of the TV set.



Troubleshooting

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

Problem	Solution
No picture (screen is dark), no sound	• Plug the TV in. • Press the  button on the front of TV. • If the  indicator is on press  button or a programme number button on the remote control. • Check the aerial connection. • Check that the selected video source is on. • Turn the TV off for 3 or 4 seconds and then turn it on again using the  button on the front of the TV.
Poor or no picture (screen is dark), but good sound.	• Using the MENU system, select the Picture Adjustment display. Adjust the brightness, picture and colour balance levels. • From the Picture Adjustment display select  to return to the factory settings.
Poor picture quality when watching a RGB video source.	• Press the  button repeatedly on the remote control until the RGB symbol  is displayed on the screen.
Good picture, no sound	• Press the  +/- button on the remote control. • If  is displayed on the screen, press the  button on the remote control.
No colour on colour programmes	• Using the MENU system, select the Picture Adjustment display. Adjust the colour balance. • From the Picture Adjustment display select  to return to the factory settings.
Distorted picture when changing programmes or selecting teletext	• Turn off any equipment connected to the 21 pin Euro connector on the rear of the TV.
Remote control does not function	• Replace the batteries.

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

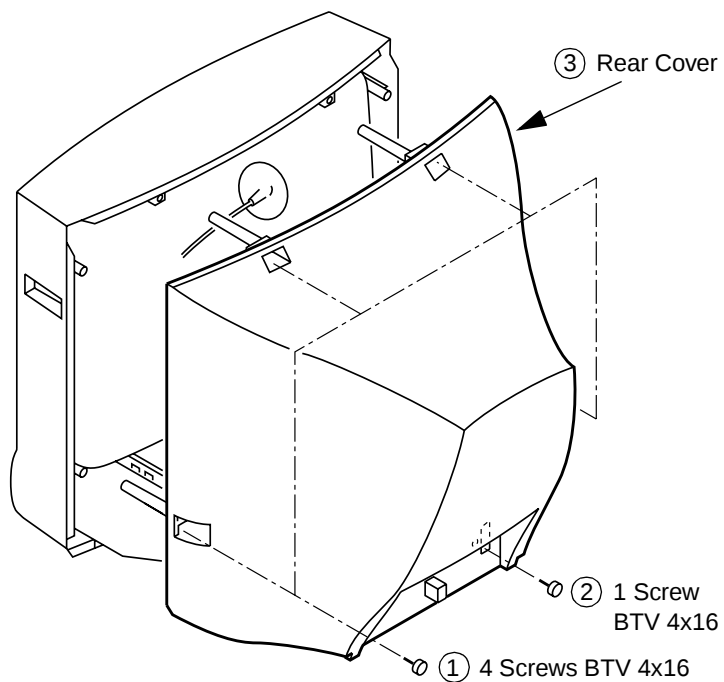
Specifications

TV system
I
Colour system
PAL
NTSC 3.58, 4.43 (only Video In)
Channel coverage
UHF: B21-B69
Picture tube
Super Trinitron
Approx. 63 cm (25 inches) (Approx. 59 cm picture measured diagonally), 110° deflection
Inputs
• Rear Terminals
 1 /  21-pin Euro connector (CENELEC standard) including audio / video input, RGB input, TV audio / video output
• Front Terminals
 2 video input - phono jack
 2 audio input - phono jack
Outputs
 Headphones jack - minijack stereo
Sound output:
5 W (RMS)
Power consumption
92 W
Standby Power consumption
0.95 W
Dimensions (wxhxd)
Approx. 604 x 549 x 508 mm
Weight
Approx. 31 kg
Accessories supplied
RM-883 Remote Control (1)
IEC designated batteries (2)
Other features
TELETEXT, Fastext

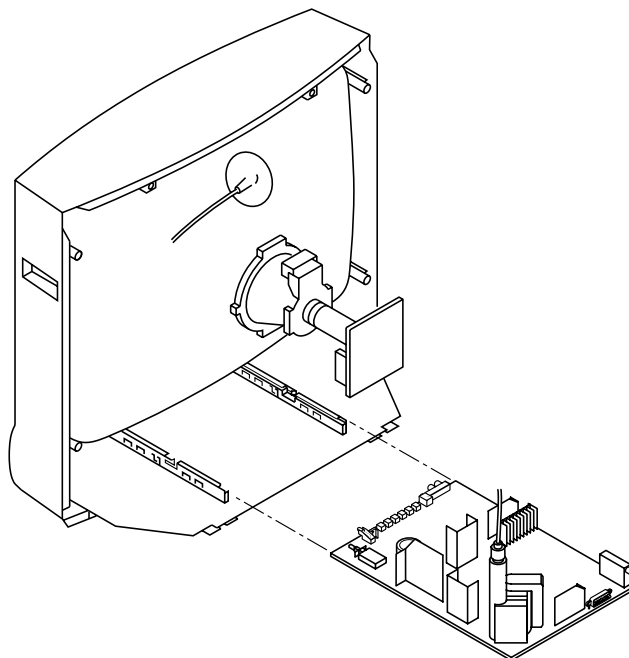
Design and specifications are subject to change without notice.

SECTION 2 DISASSEMBLY

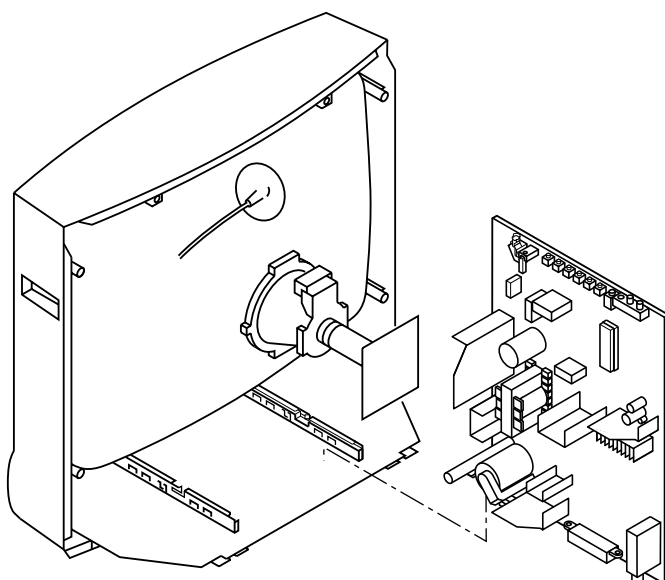
2-1. REAR COVER REMOVAL



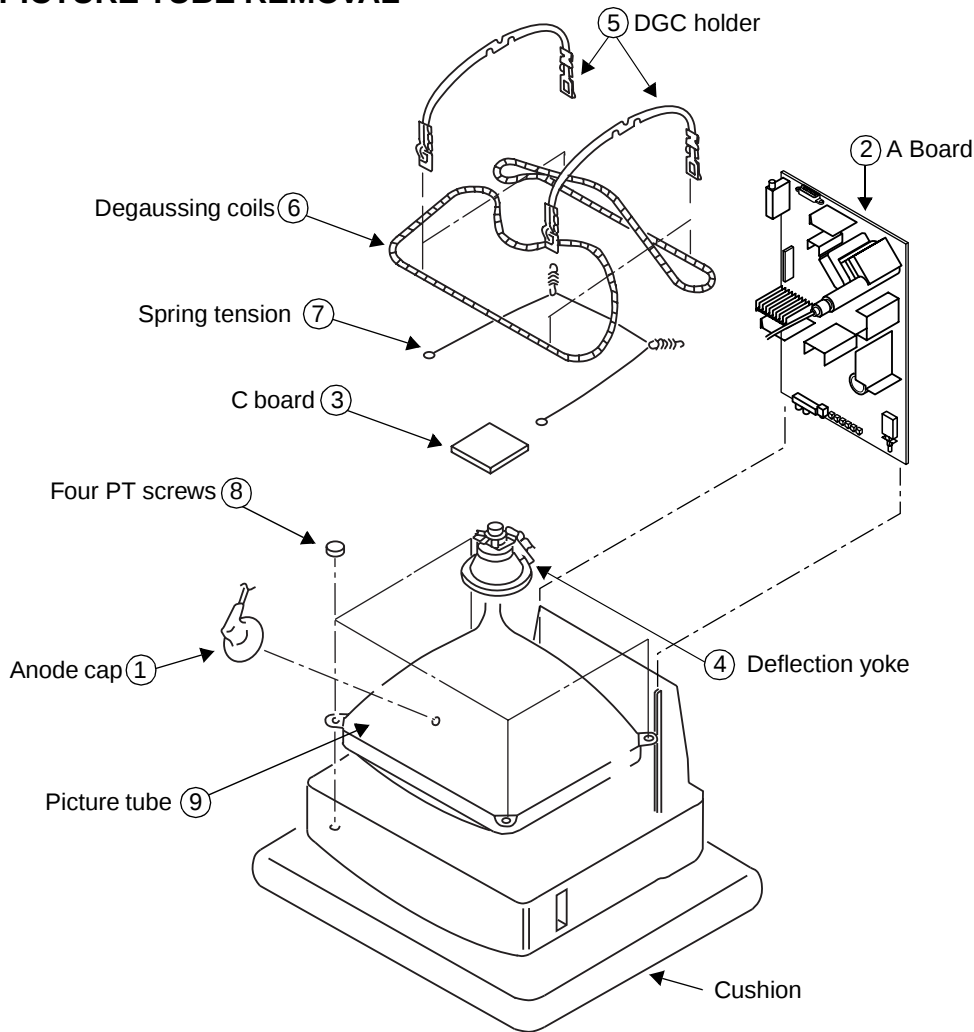
2-2. CHASSIS ASSY REMOVAL



2-3. SERVICE POSITION



2-4. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

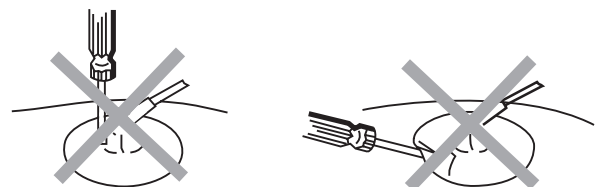
Note : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

* 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 THE ANODE-CAP

- ① To prevent damaging the surface of the anode-cap do not use sharp materials.
- ② Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
- ③ A metal fitting called a shatter hook terminal is fitted inside the rubber cap. Do not turn the rubber foot over excessively this may cause damage if the shatter hook sticks out.



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 the following settings :

Contrast 80% [or remote control normal]
 Brightness 50%

Carry out the following adjustments in this order :

- 3-1. Beam Landing
- 3-2. Convergence
- 3-4. Focus
- 3-3. White balance

Note : Test equipment required

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

Preparation:

1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
2. Switch on the TV set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input an all-white signal from the pattern generator. Set the Contrast and Brightness to normal.
2. Set the pattern generator raster signal to all Red.
3. Move the deflection yolk forward and adjust with the purity control so that the Red is at the centre and the Blue and Green take up equally sized areas on each side of the screen. [See Fig.3-1 - 3-3].
4. Move the deflection yolk forward and adjust so that the entire screen becomes Red. [See Fig.3-1].
5. Switch the raster signal to Blue, then to Green and verify the purity condition.
6. When the position of the deflection yolk has been determined, fasten the deflection yolk with the screws.
7. If the beam does not land correctly in all the corners, use magnets to correct it. [See Fig.3-4].

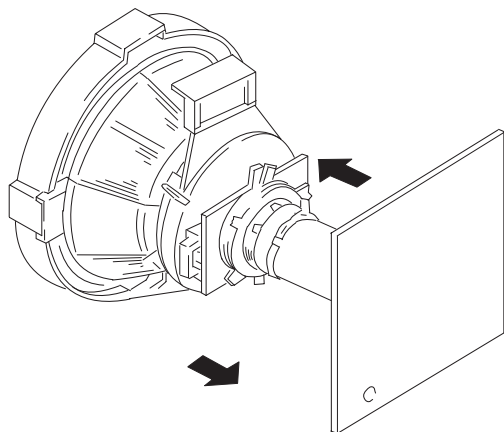


Fig. 3-1

Fig. 3-2

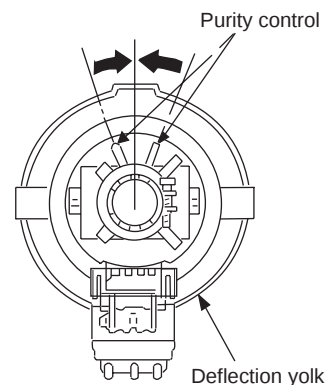


Fig. 3-3

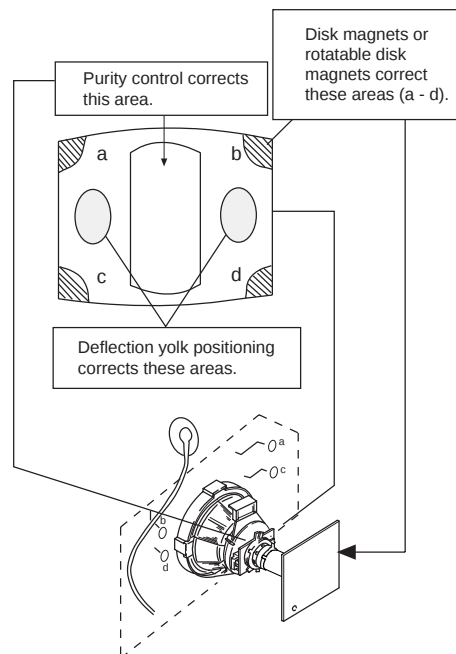
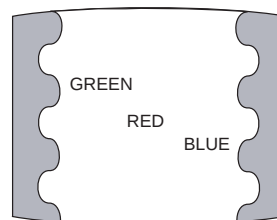


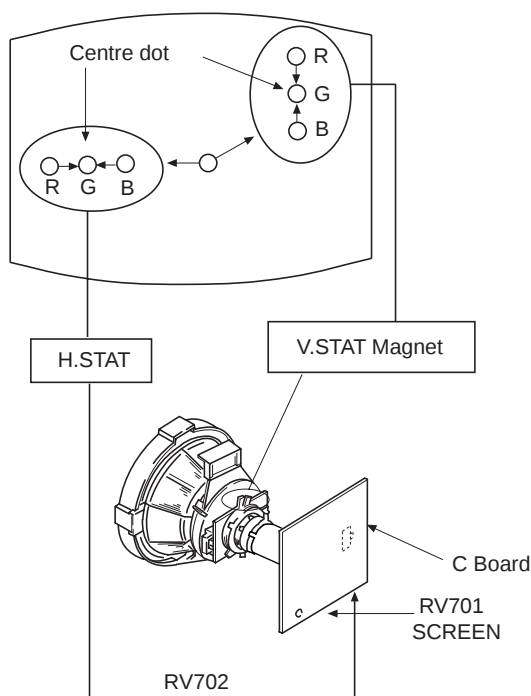
Fig. 3-4

3-2. CONVERGENCE

Preparation:

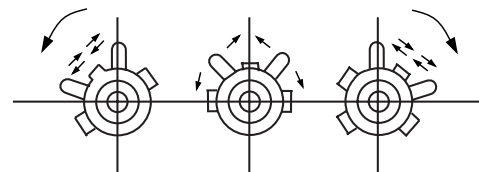
- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the Brightness setting.
- Input a dot pattern from the pattern generator.

(1) Horizontal and vertical static convergence

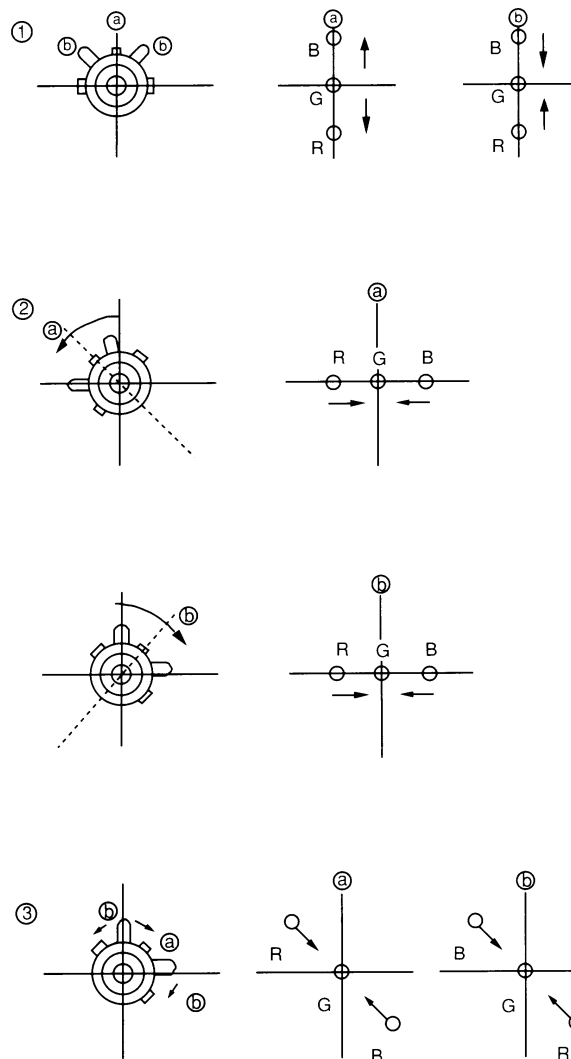


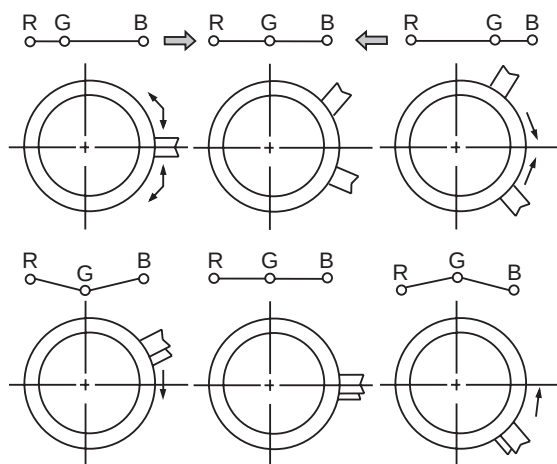
1. [Moving horizontally], adjust the H.STAT control so that the Red, Green and Blue points are on top of each other at the centre of the screen.
2. [Moving vertically], adjust the V.STAT magnet so that the Red, Green and Blue points are on top of each other at the centre of the screen.
3. If the H.STAT variable resistor is unable to bring the Red, Green and Blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner indicated 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.

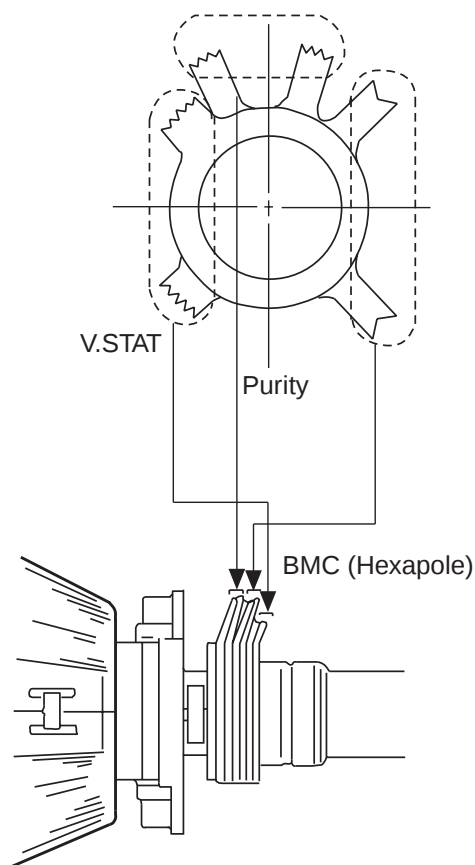


4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the Red, Green and Blue points move as indicated below.

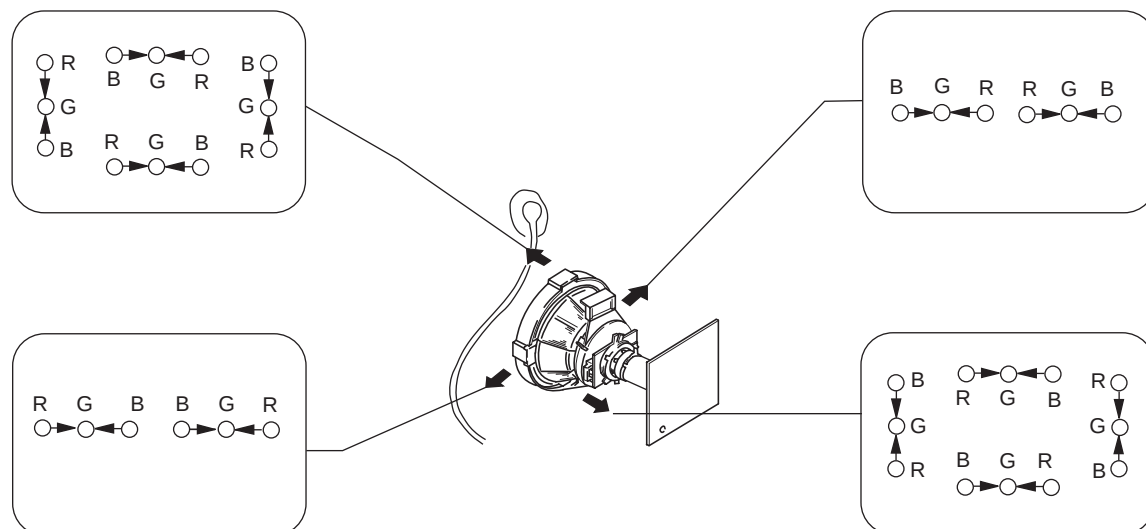


(2) Operation of the BMC (Hexapole) magnet.

- The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment whilst tracking.
Use the H.STAT VR to adjust the Red, Green and Blue dots so that they coincide at the centre of the screen [by moving the dots in the horizontal direction].

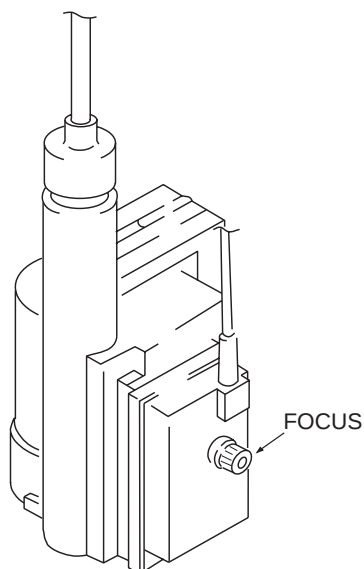
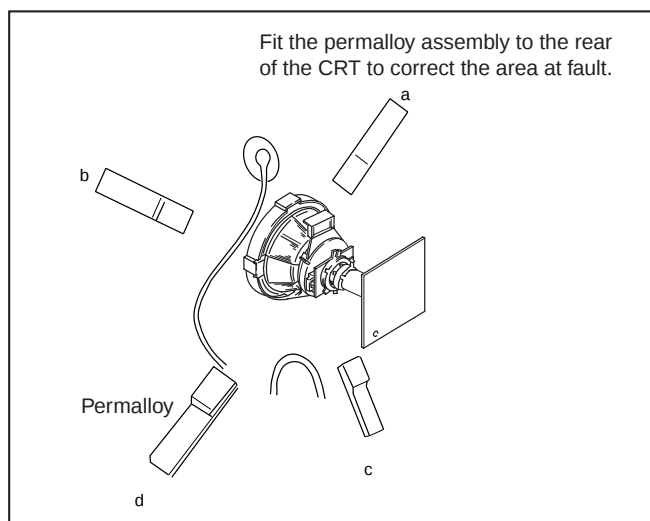
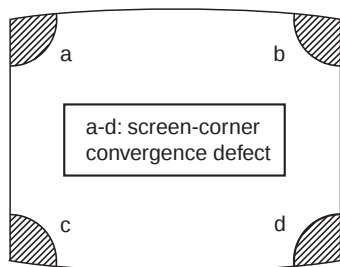
**(3) Dynamic convergence adjustment.****Preparation:**

- Before starting this adjustment, adjust the horizontal and vertical static convergence.
- Slightly loosen the deflection yolk screws.
 - Remove the deflection yolk spacer.
 - Move the deflection yolk as indicated in the figure below and optimize the convergence.
 - Tighten the deflection yolk screws.
 - Re-install the deflection yolk spacer.



(4) Screen corner convergence.

- If you are unable to adjust the corner convergence properly, this can be corrected by the use of permalloy assemblies.

**3-3. Screen [G2], White balance****G2 Setting**

- Input a dot signal from the pattern generator.
- Set the Picture, Brightness and Colour to minimum.
- Apply 170Vdc from an external power supply to the R, G and B cathodes of the CRT.
- Whilst watching the picture, adjust the G2 control [RV701 SCREEN] located on the C Board to the point just before the flyback return lines disappear.

White balance adjustment

- Input a 'PAL' all-white signal from the pattern generator.
- Enter into the Service Mode.
- Enter into the 'Picture' service menu.
- Select the 'Green drive' and adjust so that the White Balance becomes optimum.
- Select the 'Blue drive' and adjust so that the White Balance becomes optimum.
- Set the Picture to MIN.
- Set the 'R-cut-off' to 07.
- Adjust the 'G-cut-off', and the 'B-cut-off' so that the White Balance becomes optimum.
- Press the ☐ button to return to TV operation.

PICTURE

R - Drive	Adj
G - Drive	Adj
B - Drive	Adj
R - cut - off	Adj
G - cut - off	Adj
B - cut - off	Adj
ID - start	02
ID - stop	01
ID - level	01
Bellfo	Adj
Sub Colour	Adj
Sub Brightness	Adj

3-4. FOCUS

- Input a Phillips colour pattern
- Set the picture settings to normal.
- Adjust the focus control located on the Flyback transformer to bring the centre of the screen into focus.

Note :Bring only the centre area of the screen into focus, switch to an all-white pattern and confirm that the magenta ring is hardly noticed. To obtain optimum focus balance the focus setting between optimum screen centre focus and a reduced magenta ring level.

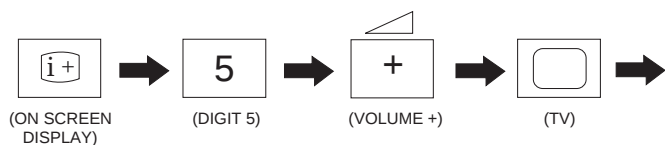
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustments to this model can be performed using the supplied Remote Commander RM-883.

HOW TO ENTER INTO SERVICE MODE

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



- 'TT--' will appear in the upper right corner of the screen.
Other status information will also be displayed.
3. Press 'MENU' on the remote commander to obtain the following menu on the screen.

TEST MENU
> Picture
Geometry
Sound
TV Status
AGC Adjust
Technical

4. Move to the corresponding adjustment item using the 'Green' [up] or 'Blue' [down] buttons on the Remote Commander.
5. Press the 'Yellow' button to enter into the required menu item.
6. Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

Note : The data shown in the 'TV STATUS' table is dependant on destination and country.

PICTURE

R - Drive	Adj
G - Drive	Adj
B - Drive	Adj
R - cut - off	Adj
G - cut - off	Adj
B - cut - off	Adj
ID - start	02
ID - stop	01
ID - level	01
Bellfo	Adj
Sub Colour	Adj
Sub Brightness	Adj

GEOMETRY

V centre	Adj
V size	Adj
V Lin	Adj
S Corr	Adj
H Cent	Adj
H Size	Adj
Pin Amp	Adj
Corner Pin	Adj
Pin Phase	Adj
V Bow	Adj
V Angle	Adj
Upper V Lin	Adj
Lower V Lin	Adj
Left HBLK	07
Right HBLK	07
CD Mode (AV)	01

SOUND

Nicam Error Lower	20
Nicam Error Upper	80
Nicam Error Rate	xx [Status only]
AGC Gain Level	xx [Status only]

TV STATUS

Destination	A/L/E/U/D/B/K/R
Text Language	East/West

TECHNICAL

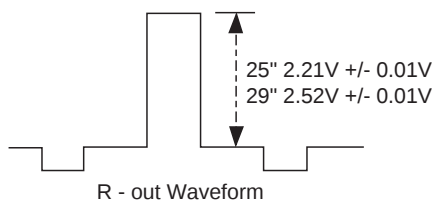
GD - Secam	30
BD - Secam	31
RC - Secam	11
GC - Secam	19
BC - Secam	10
GD - Sports	30
BD - Sports	36
RC - Sports	14
GC - Sports	15
BC - Sports	17
Y - Delay (AV)	07

SUB BRIGHTNESS ADJUSTMENT

1. Input a Phillips colour pattern.
2. Press 'TEST' 'TEST' 13 on the Remote Commander.
3. Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

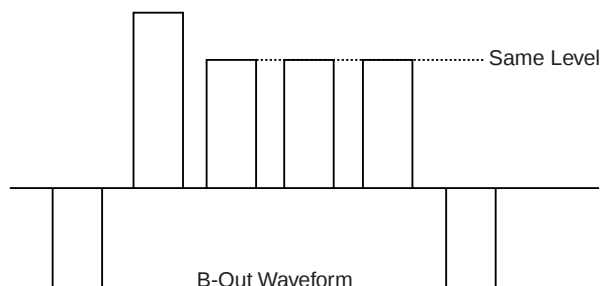
SUB CONTRAST ADJUSTMENT

1. Input a video signal that contains a small 100% white area on a black background
2. Set the picture control to maximum. ['TT01']
3. Connect an oscilloscope to Pin 1 of CN504 [A Board].
4. Enter into the 'Picture' service menu.
5. Adjust the 'R - Drive' data to obtain the following waveform.



SUB COLOUR ADJUSTMENT

1. Receive a PAL colour bar signal.
2. Connect an oscilloscope to Pin 3 of CN504 [A Board].
3. Enter into the 'Picture' service menu.
4. Adjust the 'Sub Colour' data so that the Cyan, Magenta and Blue colour bars are of equal levels as indicated below.



Note: Ensure that no signal is applied to the Antenna socket while carrying out the following IF adjustments.

SYSTEM B/G, D/K, I & L I.F ADJUSTMENT

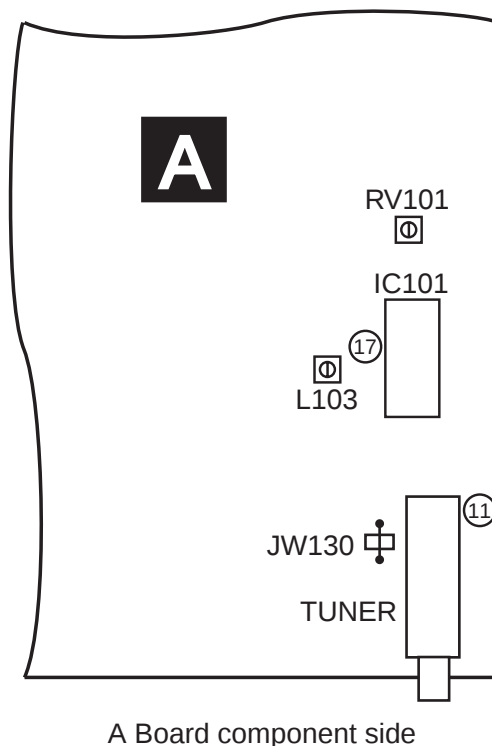
1. Input a 38.9Mhz carrier signal at 100dBuV to Pin 11 [IF output] of the tuner [TU101].
2. Measure the voltage at Pin 17 of [IC101].
3. Adjust L103 [A Board] to obtain a voltage of 2.5V +/- 0.3V.

SYSTEM L BAND 1 I.F ADJUSTMENT

1. Input a 34.0MHz carrier signal at 100dBuV to Pin 11 [IF output] of the tuner [TU101].
2. Select 'system L' + C00 [channel 00].
3. Measure the voltage at Pin 17 [IC101].
4. Adjust RV101 [A Board] to obtain a voltage of 2.5V +/- 0.3V.

TUNER AGC ADJUSTMENT

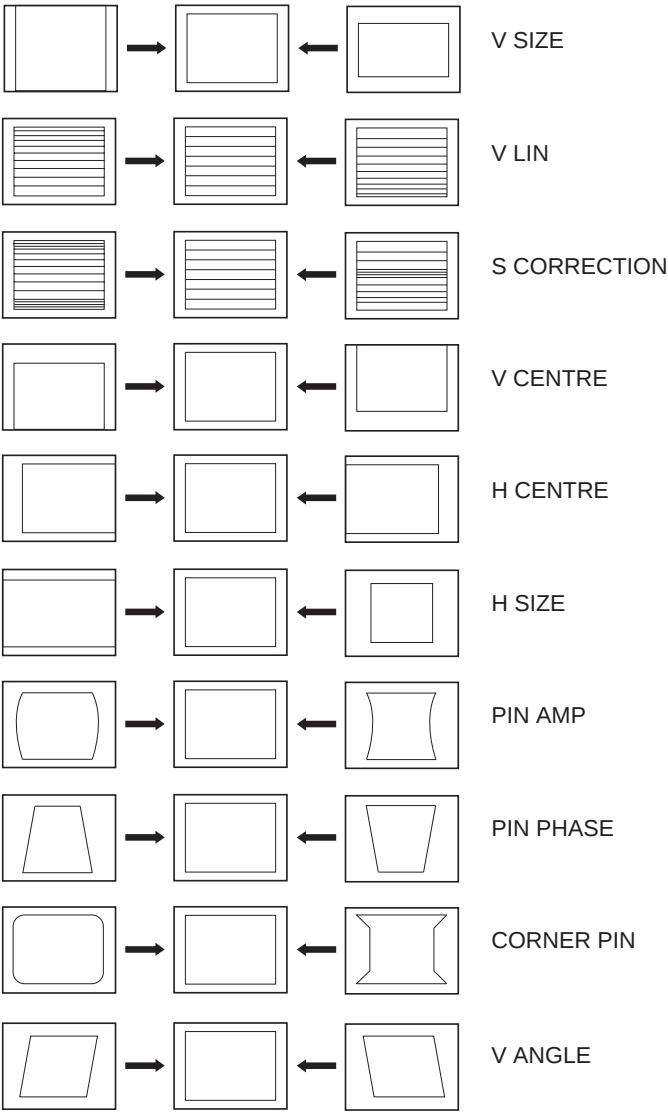
1. Receive a signal of 65dBuV / 75 ohm terminated, via the tuner antenna socket.
2. Connect a voltmeter to JW130 [A Board].
3. Enter into the 'Test Menu'.
4. Select the 'AGC Adjust' menu item.
5. Adjust the data using the Yellow and Green buttons on the Remote Commander to obtain a voltage of 3.0V +/- 0.2V.



DEFLECTION SYSTEM ADJUSTMENT

- 1. Enter into the ‘Geometry’ service menu.
- 2. Select and adjust each item in order to obtain the optimum image.

GEOMETRY		
V centre	Adj	
V size	Adj	
V Lin	Adj	
S Corr	Adj	
H Cent	Adj	
H Size	Adj	
Pin Amp	Adj	
Corner Pin	Adj	
Pin Phase	Adj	
V Bow	Adj	
V Angle	Adj	
Upper V Lin	Adj	
Lower V Lin	Adj	
Left HBLK	07	
Right HBLK	07	
CD Mode (AV)	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, or press the ☐ TV button on the remote commander.

00	Cancel Test mode
01	Picture maximum
02	Picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Ageing mode On/Off
08	Set shipping conditions
09	Display TV Status
10	No function
11	Sub Picture Adjustment
12	Sub Colour Adjustment
13	Sub Brightness Adjustment
14	Text H position Adjustment
15	Rotation test
16	Picture level 50%
17	Audio mute ON
18	Disable Blanking
19	No function
20	No function
21	Destination A
22	Destination L
23	Destination E
24	Destination U
25	Destination D
26	Destination B
27	Destination K
28	Destination R
29	No function
30	No function
31	Audio shutoff Disable/Enable
32	RGB priority Disable/Enable
33	Rotation On/OFF
34	Text language East/West
35	Wide CRT/4:3 CRT
36	VM ON/OFF test
37	No function
38	No function
39	No function
40	No function
41	Re-initialize the NVM [Only when Prog=59]

42	Re-initialise geometry settings [Only when Prog=59]
43	No function
44	No function
45	No function
46	No function
47	No function
48	Set NVM as NON Virgin [Only when Prog=59]
49	Set NVM as Virgin [Only when Prog=59]
50	No function
51	No function
52	No function
53	No function
54	No function
55	No function
56	No function
57	No function
58	No function
59	No function
60	No function
61	Auto AGC Adjust
62	Alternative Dest B Autotuning
63	Enable/Disable Y/C input
64	Signal Quality Check for Auto Tune
65	Signal Quality NOT Checked for Auto Tune
66	No function
67	Manual AGC Adjust
68 -100	No function

4-3. FE-1 SELF DIAGNOSTIC SOFTWARE

The identification of errors within the FE-1 chassis is triggered in one of two ways :- 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with continuous 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., non fatal errors are reported using this method. Each time the software detects an error it is stored within the NVM. See Table 2.

Table 1

ERROR	LED ERROR COUNT
No error	00
Not allowed (may be confused with Sircs response flash!)	01
Protection circuit trip < ANY TIME >	02
Reserved	03
No vertical sync	04
AKB	05
IIC bus clock and/or data lines low at Power ON	06
NVM no IIC bus acknowledge at Power ON	07
Jungle controller no IIC acknowledge at Power ON	08
Tuner no acknowledge at Power ON	09
Sound processor no acknowledge at Power ON	10

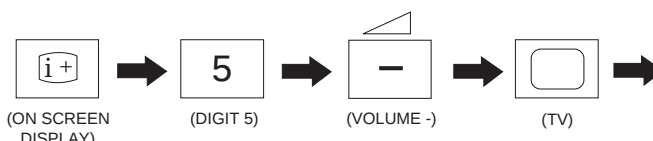
Flash Timing Example : e.g. error number 3

StBy LED



How to enter into Table 2

1. Turn on the main power switch of the TV set and enter into the 'Standby Mode'.
2. Press the following sequence of buttons on the Remote Commander.



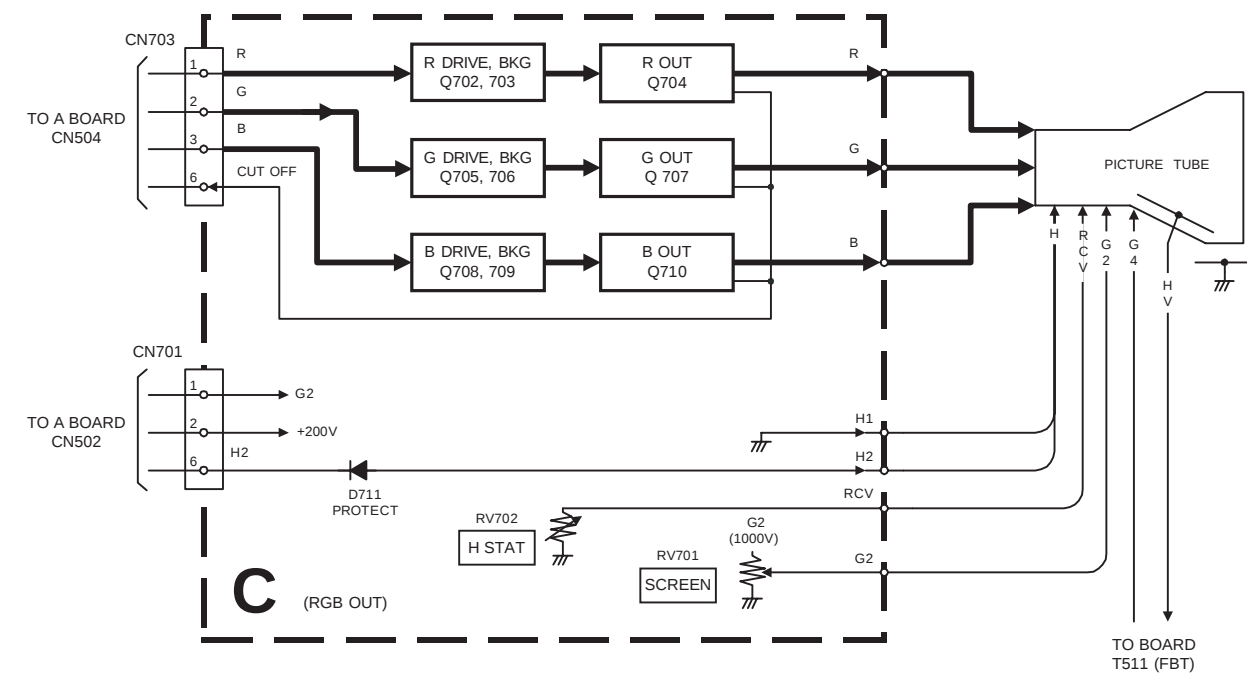
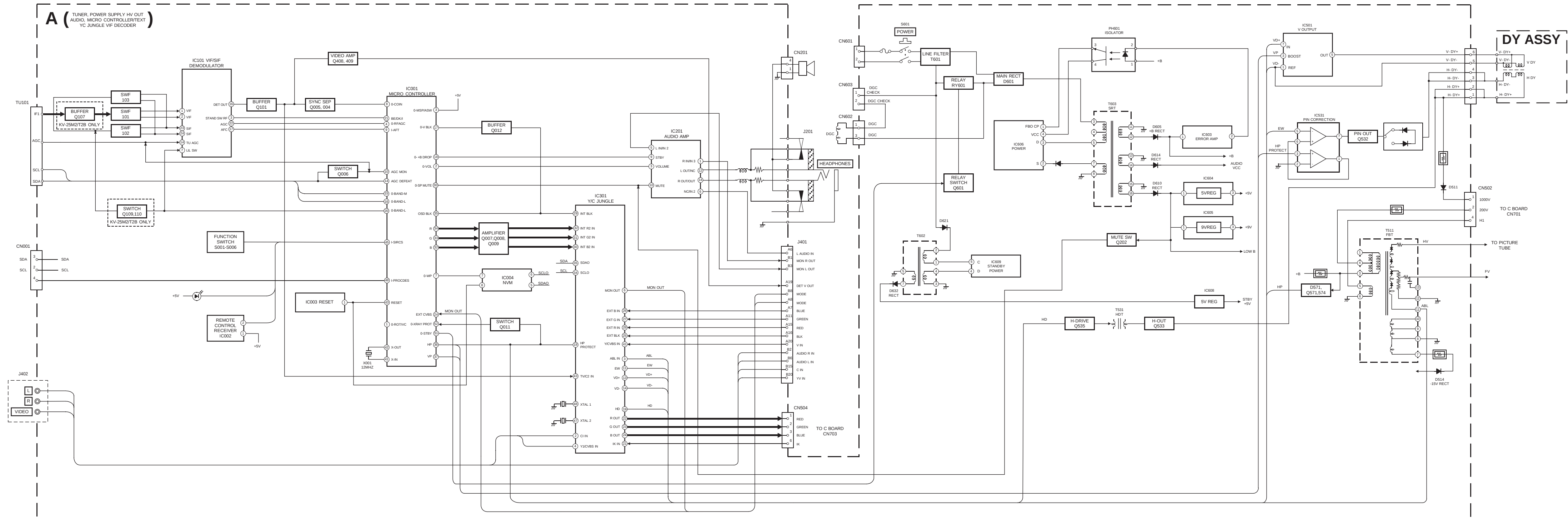
3. The following table will be displayed indicating the error count.

Table 2

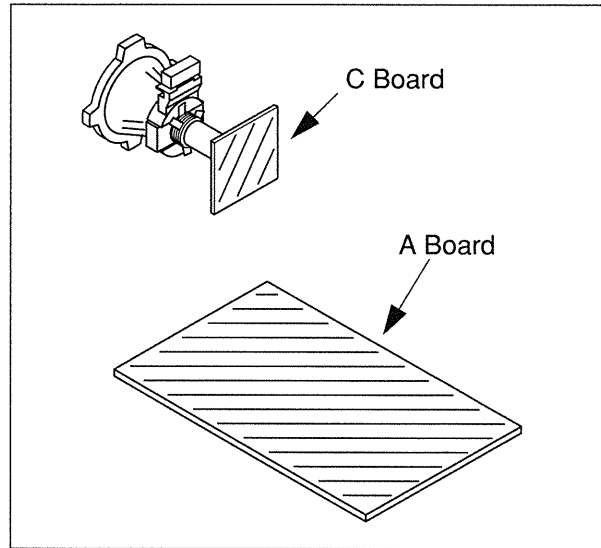
Error	Times
2	-
3	-
4	-
5	-
6	-
7	-
8	-
9	-
10	-

Note: To clear the error count data press '80' on the Remote commander.

5-1 BLOCK DIAGRAMS



5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- Note :
- All capacitors are in μF unless otherwise noted.
 - pF : μF 50WV or less are not indicated except for electrolytic types.
 - Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Electrical power rating : 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms.
- k = 1000 ohms, M = 1000,000 ohms

- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation or adjustment for repair.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital mutimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerances.

- : B + bus.
- : B - bus.
- : RF signal path.
- : earth - ground.
- : earth - chassis.

Reference Information

RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
		: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

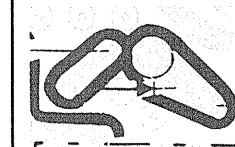
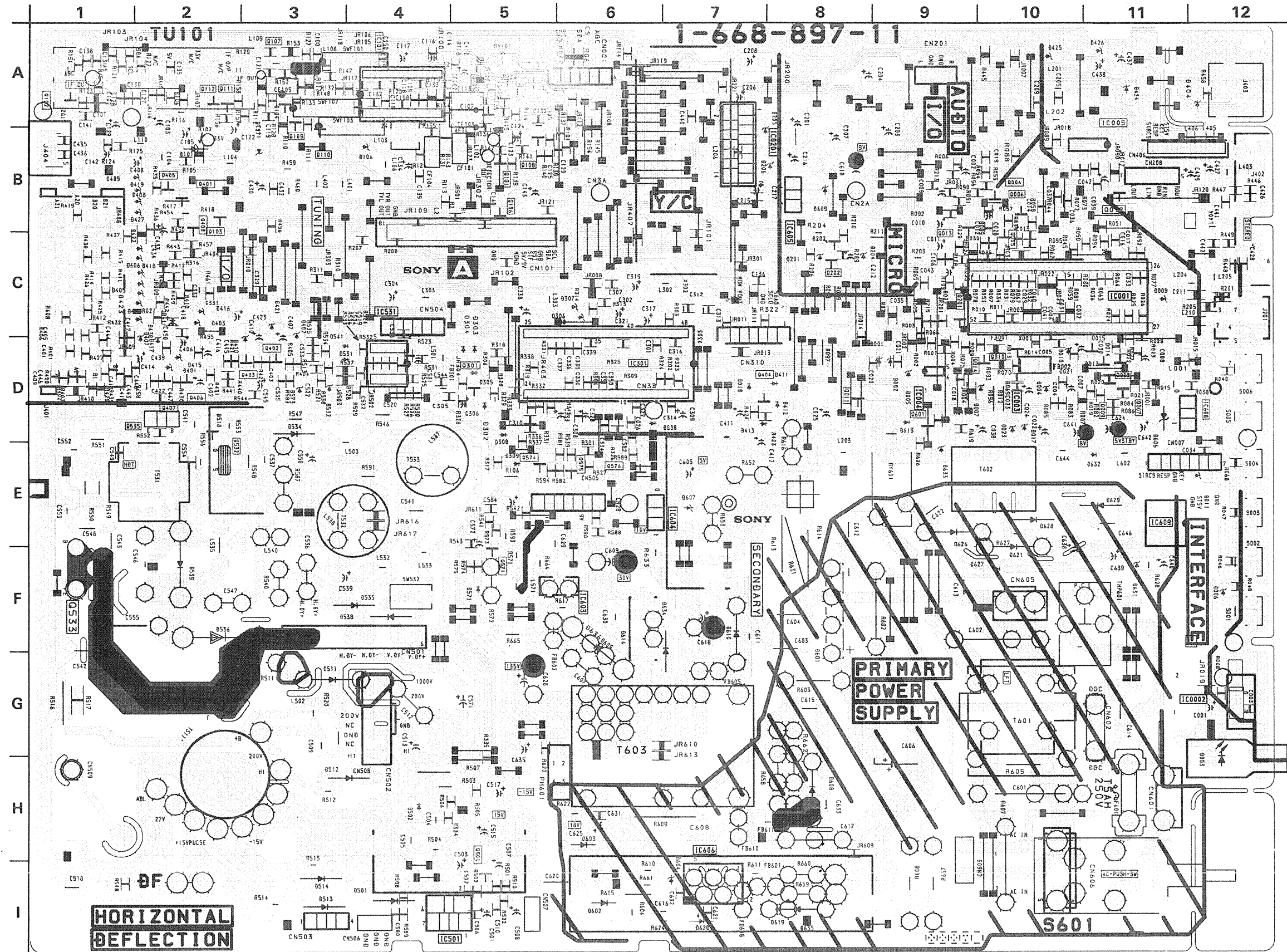
Note: The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

Note: Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour le securite. Ne les remplacer que par des pieces de numero specifie.

A

POWER SUPPLY, DEFLECTION, TUNING, PROCESSOR,
VIDEO SIGNAL PROCESSOR, AV IN/OUT

A Board



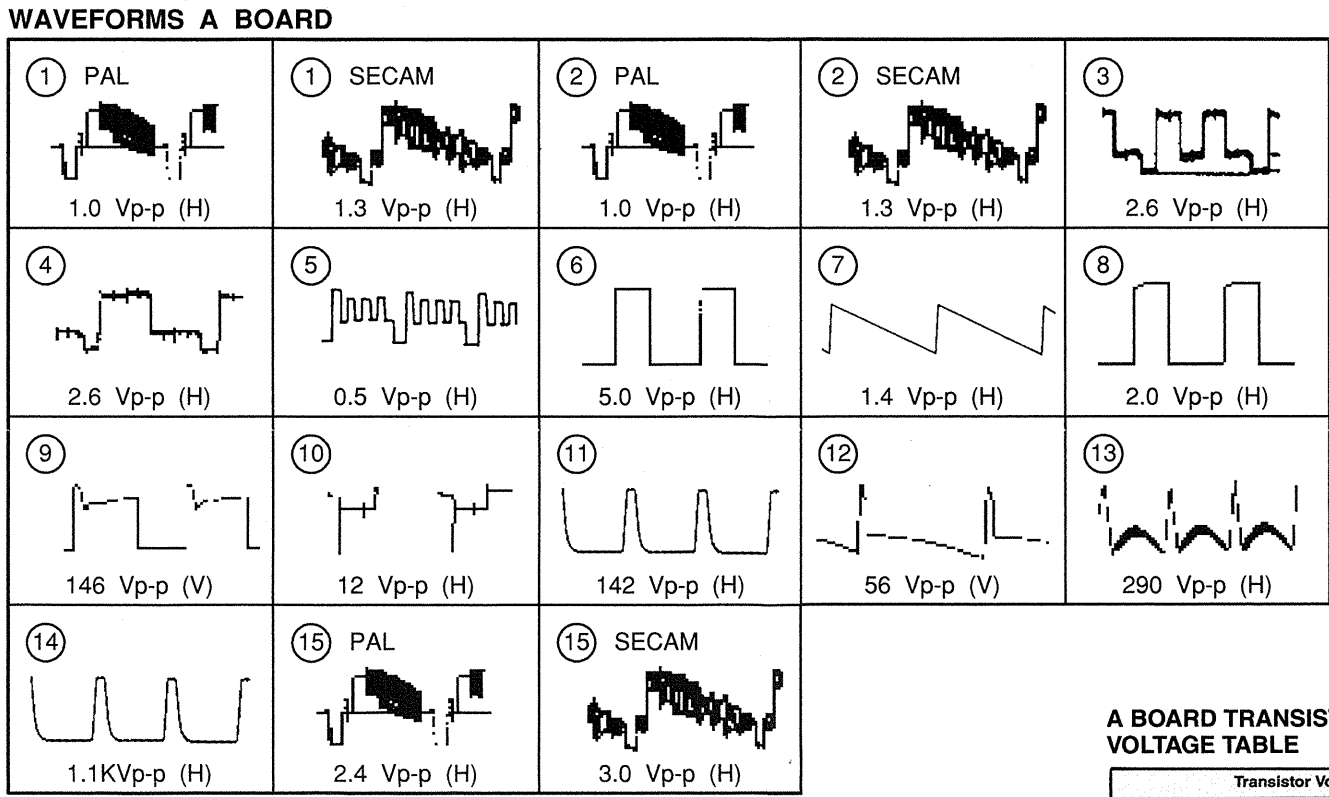
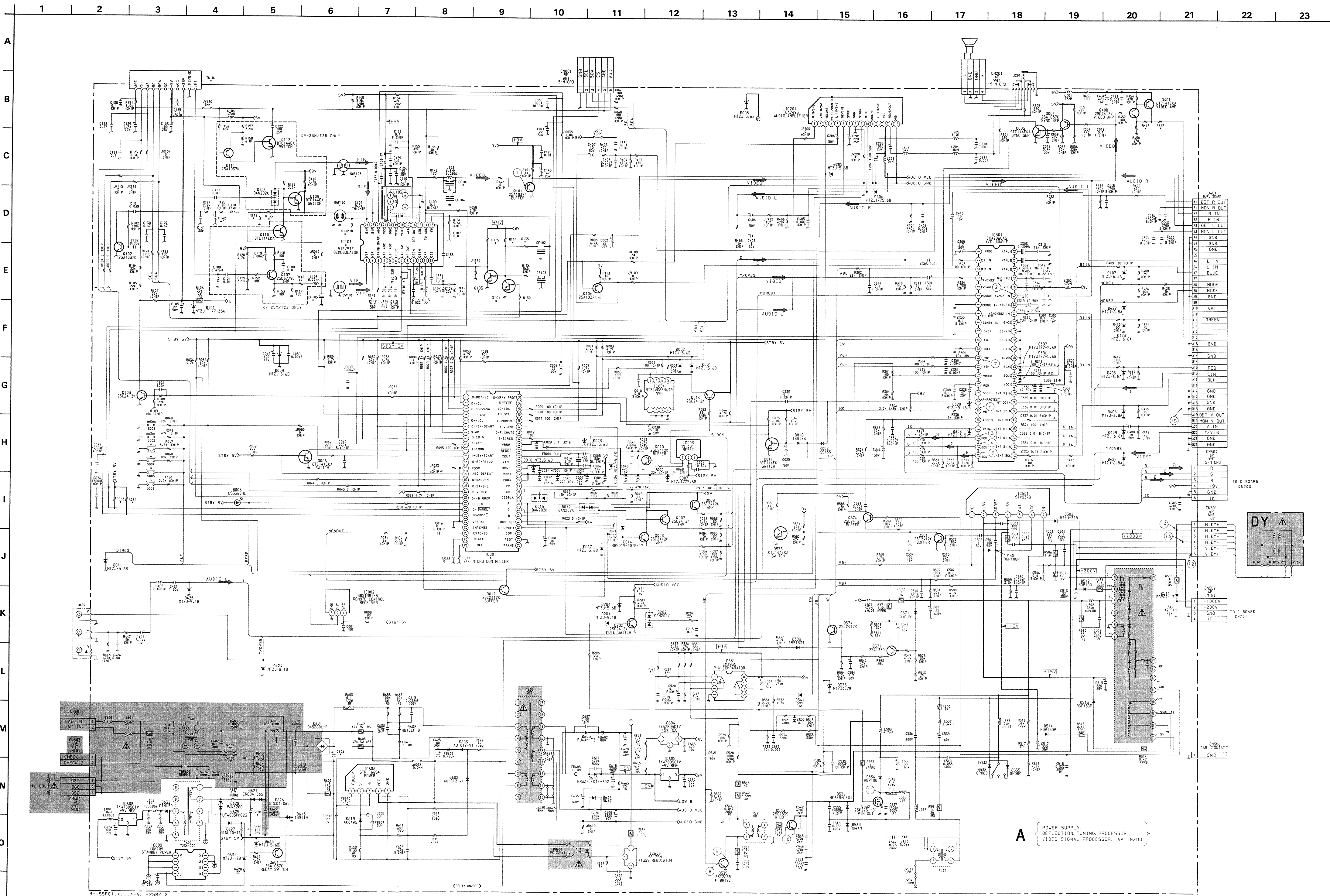
Note:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

A BOARD

IC		Q533	F - 1	D424	A - 11
IC001	C - 11	Q535	D - 2	D425	A - 10
IC002	G - 12	Q571	F - 5	D427	B - 2
IC003	D - 10	Q574	E - 5	D502	H - 4
IC004	D - 9	Q575	E - 6	D511	G - 3
IC101	A - 4	Q576	E - 6	D512	H - 3
IC201	B - 7	Q601	D - 9	D513	I - 3
IC301	D - 6	DIODE		D514	I - 3
IC501	I - 4			D534	D - 3
IC531	D - 4	D002	D - 8	D535	F - 4
IC603	F - 6	D003	H - 12	D536	F - 2
IC604	E - 6	D004	D - 10	D538	F - 4
IC605	C - 8	D005	D - 9	D539	F - 2
IC606	I - 7	D007	D - 10	D541	D - 3
IC608	D - 12	D008	D - 7	D571	F - 5
IC609	E - 11	D009	C - 11	D573	D - 3
TRANSISTOR		D010	D - 10	D601	G - 8
Q004	B - 10	D011	E - 12	D602	I - 6
Q005	C - 10	D012	D - 11	D603	H - 6
Q006	B - 10	D014	D - 11	D605	G - 6
Q007	D - 11	D015	D - 11	D608	H - 8
Q008	D - 11	D017	D - 10	D610	F - 7
Q009	D - 11	D018	D - 7	D613	E - 9
Q010	D - 10	D023	E - 10	D614	G - 6
Q011	D - 8	D101	B - 2	D619	I - 8
Q012	B - 11	D103	A - 5	D621	F - 10
Q101	B - 5	D104	A - 3	D626	F - 9
Q102	A - 1	D201	C - 8	D627	F - 9
Q103	B - 2	D202	C - 8	D628	E - 10
Q104	A - 5	D204	C - 9	D629	E - 11
Q105	A - 5	D205	B - 8	D631	F - 11
Q106	B - 6	D206	B - 7	D632	E - 11
Q107	A - 3	D306	C - 6	D633	E - 9
Q109	A - 3	D307	C - 6		
Q110	A - 3	D308	E - 5		
Q111	A - 2	D310	D - 6		
Q112	A - 2	D405	C - 1		
Q202	C - 8	D406	C - 2		
Q401	B - 2	D407	D - 2		
Q408	B - 2	D409	B - 1		
Q501	I - 5	D422	C - 1		
Q532	E - 2	D423	C - 1		

A BOARD IC VOLTAGE TABLE

IC Voltage Table								
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC001	4	0.8	IC101	5	2.8	IC301	34 - 35	3.3
	6	3.2		6	2.7		41	5.0
	7 - 8	4.8		7	3.9		42	8.6
	9	0.3		8	2.2		43	5.0
	10	2.0		12	2.0		44	8.8
	11	1.5		15	1.5		45	5.2
	12	4.7		17	0.3		48	1.5
	19	3.6		18 - 19	2.6		1	15.3
	20	4.3		21	4.7		5	15.3
	21	4.8		22	0.9		7	15.3
	24	2.5	IC201	23 - 24	3.2	10	4.5	
	25	2.1		1	3.3	12	15.3	
	26	2.4		2	5.0	13	31.2	
	30	4.8		3	4.3	14	15.3	
	31	5.0		4	5.0	1	1.4	
	36	0.2		6	4.4	2	14.0	
	37	0.1		8	4.5	3	-13.0	
	38 - 39	5.0		11	3.9	4	-14.0	
	41 - 42	2.2		12	2.4	5	0.2	
	44	4.8		13	3.5	6	14.5	
	45	2.8	IC301	14	3.4	7	1.4	
	47	0.1		15	5.6	1	1.6	
	48	2.4		16	7.6	2	1.7	
	49	3.3		18	1.3	3	1.9	
	50	3.1		19	2.4	5	2.8	
	51	0.1		20	3.8	6	2.0	
	IC004	5 - 6		4.8	21	1.6	7	7.3
		7		3.3	22 - 24	1.5	8	8.8
		8		3.2	26 - 28	4.5	IC606	1 - 2
	IC101	1 - 2		3.2	30	4.5		4
3		4.8	31 - 32	4.4	IC609	4	-58.0	
4		3.0	33	8.1				



A BOARD TRANSISTOR VOLTAGE TABLE

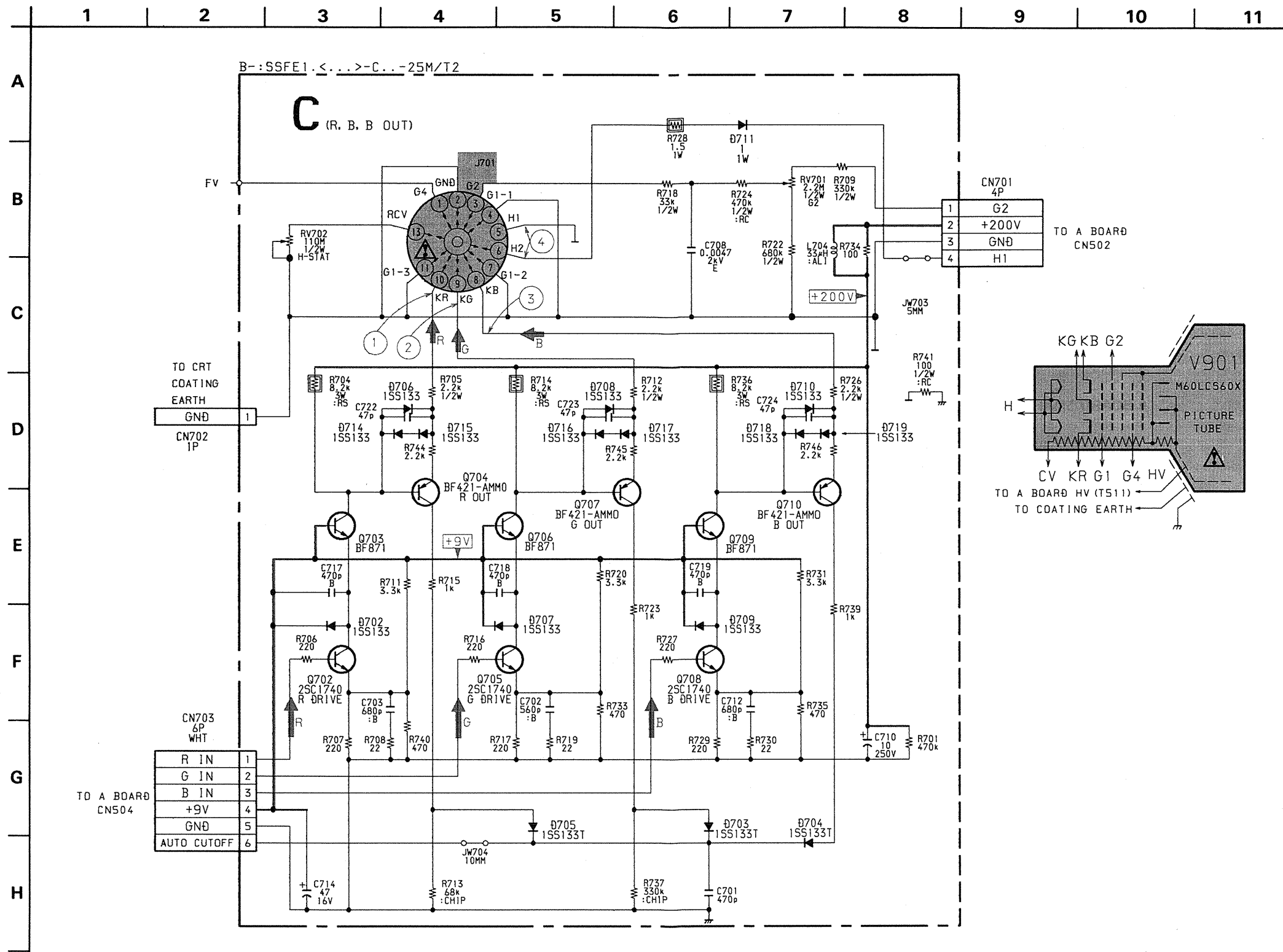
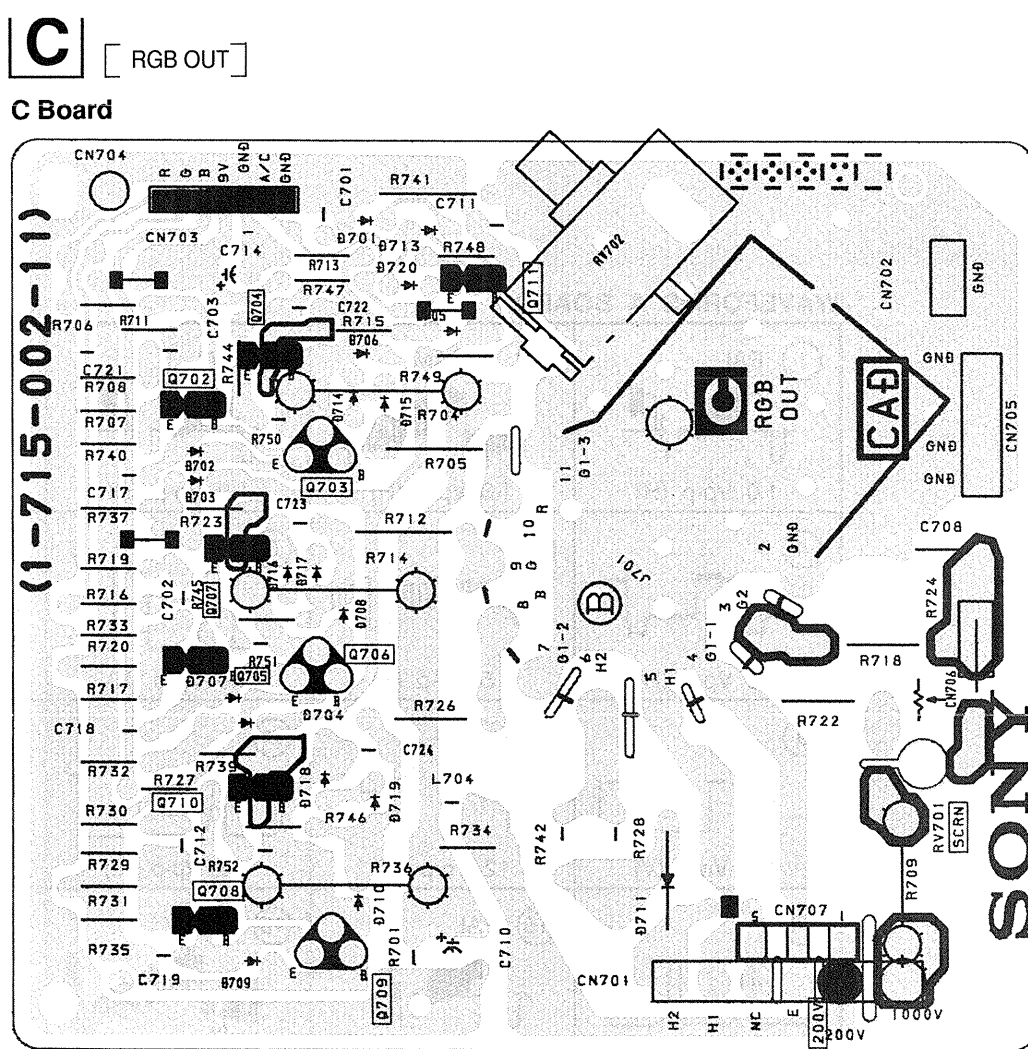
Ref No	(B) Base	(C) Collector	(E) Emitter
Q004	4.7	0.7	4.9
Q005	0.3	4.8	-
Q006	-	2.0	-
Q007	-	4.9	-
Q008	-	4.9	-
Q009	-	4.9	-
Q010	0.6	-	-
Q011	0.5	-	-
Q012	-	4.8	-
Q101	2.0	-	2.6
Q109	-	4.7	-
Q110	4.3	-	-
Q111	2.3	2.9	2.9
Q112	2.9	-	-
Q202	0.6	-	-
Q401	8.0	3.4	8.6
Q408	2.6	8.0	2.0
Q532	7.3	3.1	-
Q535	-0.7	92.0	-
Q571	134.2	-	134.4
Q574	-	2.0	-
Q576	3.4	6.7	2.8
Q601	4.0	3.6	4.8

A BOARD *MARK-2

IC001	SA5491PS/M1A/019	KV-25M2A/25M2D/25M2E/25M2K
IC001	SA5498PS/M1A/041	KV-25T2A/25T2B/25T2E/25T2K/25T2L/25T2U
IC001	SA5498PS/M1A/043	KV-25T2D
IC001	SA5498PS/M1A/042	KV-25T2R

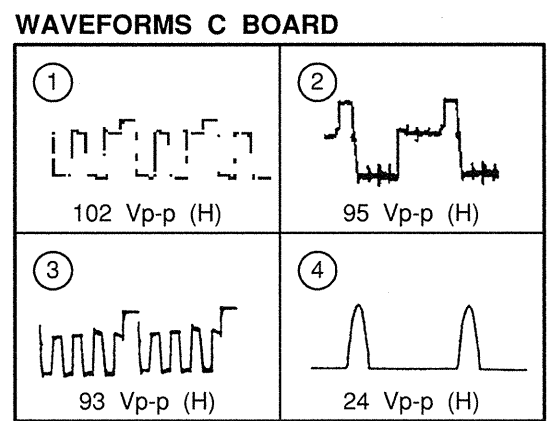
A BOARD * MARK

Ref	25M2A/25T2A	25T2B	25M2D/25T2D	25M2E/25T2E	25M2K/25T2K	25T2L	25T2R	25T2U
C133	-	1M	-	-	-	-	-	-
C606	330MF 400V	330MF 400V	330MF 400V	330MF 400V	330MF 400V	330MF 400V	330MF 400V	330MF 400V
C638	10MF 400V	10MF 400V	10MF 400V	10MF 400V	10MF 400V	10MF 400V	10MF 400V	10MF 400V
CF103	1-404-801-11	1-409-430-11	1-404-801-11	1-404-801-11	1-404-801-11	1-409-429-11	1-404-801-11	1-409-429-11
CF102	-	-	-	-	1-567-101-11	-	1-567-101-11	-
CF103	1-760-106-11	1-760-106-11	1-760-106-11	1-760-106-11	1-760-106-11	1-567-100-11	1-760-106-11	1-567-100-00
CF104	-	-	-	-	1-409-327-00	-	1-409-327-00	-
IC001	Refer to 'A Board' Mark - 2' Table							
IC101	TD9817V1	TD9818V1	TD9817V1	TD9817V1	TD9817V1	TD9817V1	TD9817V1	TD9817V1
JR110	0	0	0	0	0	0	0	0
Q104	-	-	-	-	DTC144EKA	-	DTC144EKA	-
Q105	-	-	-	-	DTC144EKA	-	DTC144EKA	-
R063	-	4.7K	-	-	-	-	-	-
R064	-	4.7K	-	-	-	-	-	-
R112	-	2.2K	-	-	-	-	-	-
R114	-	-	-	-	2.2K	-	2.2K	-
R115	-	-	-	-	2.2K	-	2.2K	-
R132	0	-	0	0	0	0	0	0
R133	0	-	0	0	0	0	0	0
R135	-	-	-	-	560	-	560	-
R150	-	-	-	-	100	-	100	-
R417	75	75	75	75	68	75	68	75
R418	470	470	470	470	560	470	560	470
RV101	-	22K	-	-	-	-	-	-
SWF101	1-579-120-11	1-579-273-11	1-579-120-11	1-579-120-11	1-579-414-11	1-760-711-11	1-579-414-11	1-760-711-11
SWF102	-	1-767-873-11	-	-	-	-	-	-
SWF103	-	1-767-083-11	-	-	-	-	-	-
TU101	VSS BT-AC401	TEL-4-002B	VSS BT-AC401	VSS BT-AC401	VSS BT-AC401	VSS BT-AC401	VSS BT-AC401	VSS BT-AC401

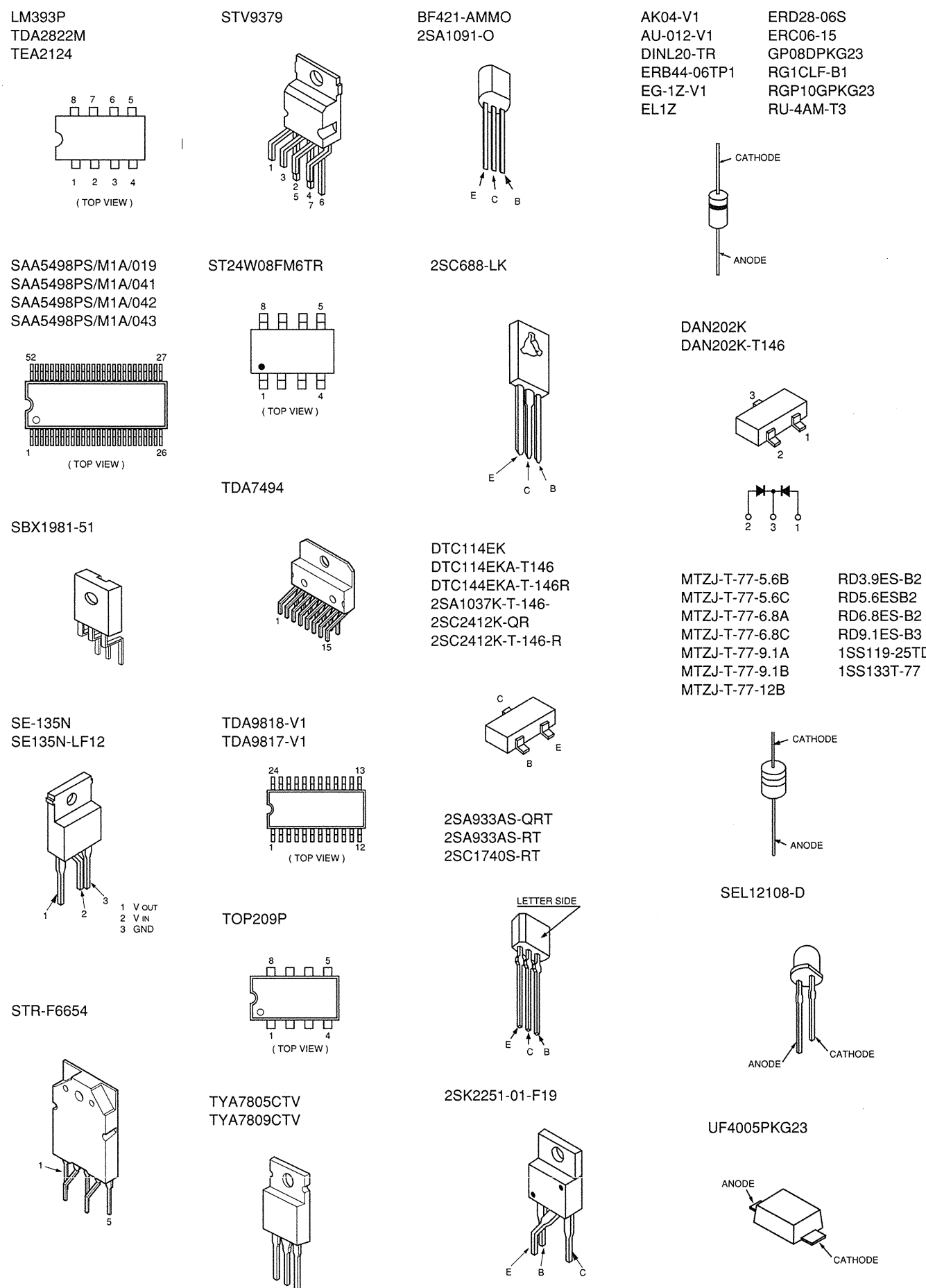


C BOARD TRANSISTOR VOLTAGE TABLE

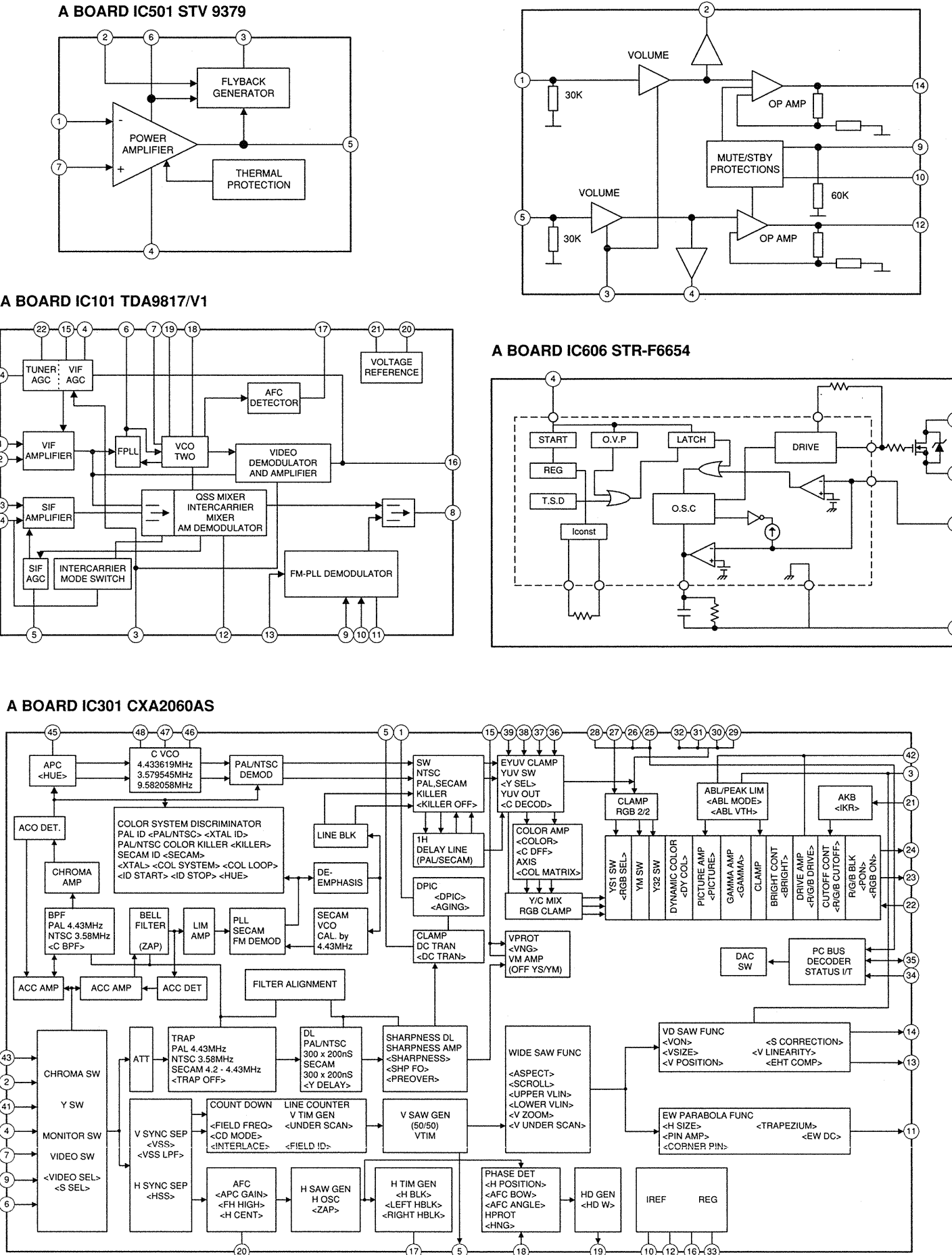
Ref No	(B) Base	(C) Collector	(E) Emitter
Q702	1.5	8.3	1.1
Q703	8.8	169.8	8.3
Q704	169.5	1.9	209.5
Q705	1.5	8.3	1.1
Q706	8.8	170.7	8.3
Q707	170.5	1.9	215.7
Q708	1.5	8.3	1.0
Q709	8.9	171.3	8.3
Q710	171.2	1.9	206.3



5-4 SEMICONDUCTORS

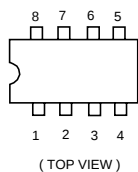


5-5. IC BLOCK DIAGRAMS

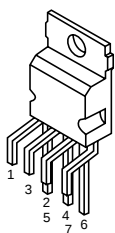


5-4 SEMICONDUCTORS

LM393P
TDA2822M
TEA2124



STV9379

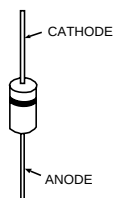


BF421-AMMO
2SA1091-O



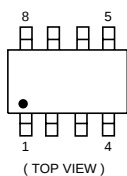
AK04-V1
AU-012-V1
DINL20-TR
ERB44-06TP1
EG-1Z-V1
EL1Z

ERD28-06S
ERC06-15
GP08DPKG23
RG1CLF-B1
RGP10GPKG23
RU-4AM-T3

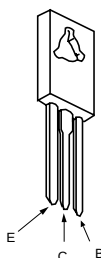


SAA5498PS/M1A/019
SAA5498PS/M1A/041
SAA5498PS/M1A/042
SAA5498PS/M1A/043

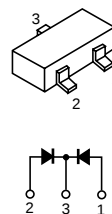
ST24W08FM6TR



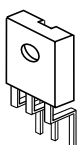
2SC688-LK



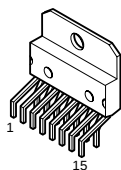
DAN202K
DAN202K-T146



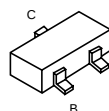
SBX1981-51



TDA7494



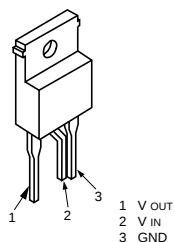
DTC114EK
DTC114EKA-T146
DTC144EKA-T-146R
2SA1037K-T-146-
2SC2412K-QR
2SC2412K-T-146-R



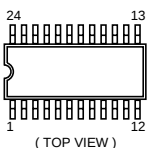
MTZJ-T-77-5.6B
MTZJ-T-77-5.6C
MTZJ-T-77-6.8A
MTZJ-T-77-6.8C
MTZJ-T-77-9.1A
MTZJ-T-77-9.1B
MTZJ-T-77-12B

RD3.9ES-B2
RD5.6ESB2
RD6.8ES-B2
RD9.1ES-B3
1SS119-25TD
1SS133T-77

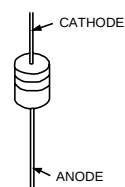
SE-135N
SE135N-LF12



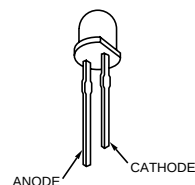
TDA9818-V1
TDA9817-V1



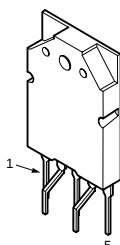
2SA933AS-QRT
2SA933AS-RT
2SC1740S-RT



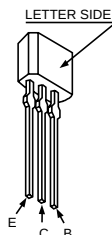
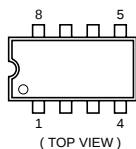
SEL12108-D



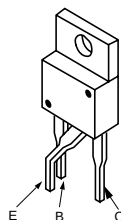
STR-F6654



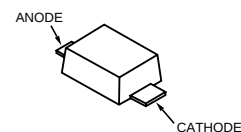
TOP209P



2SK2251-01-F19

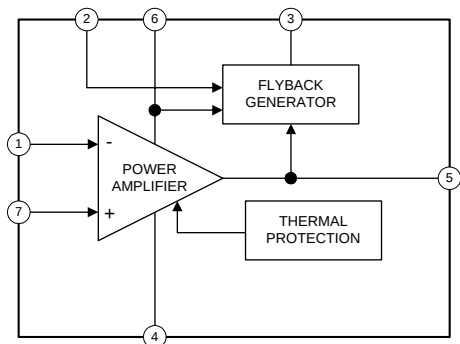


UF4005PKG23

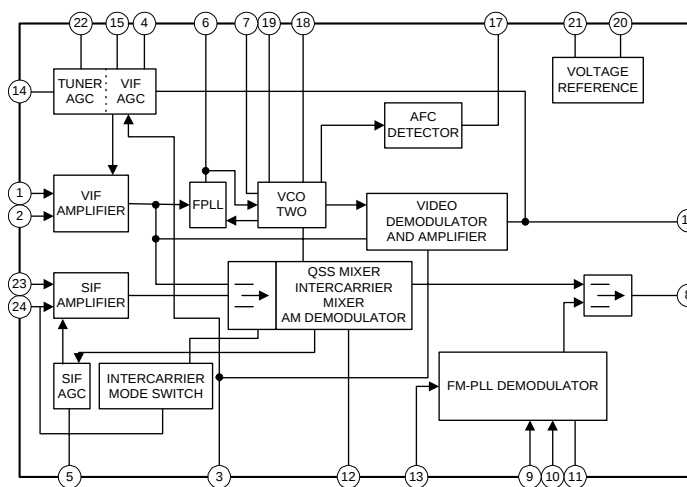


5-5. IC BLOCK DIAGRAMS

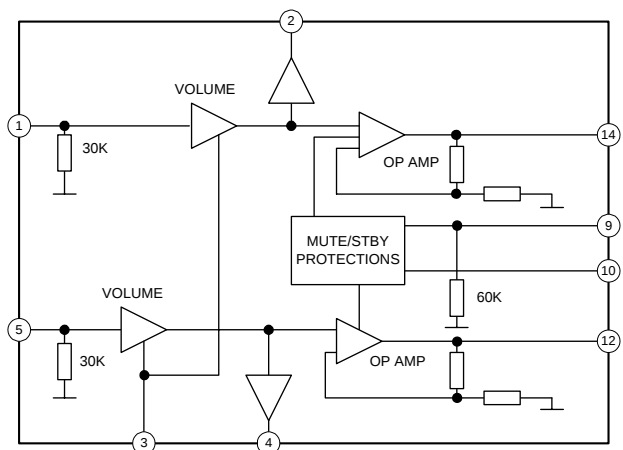
A BOARD IC501 STV 9379



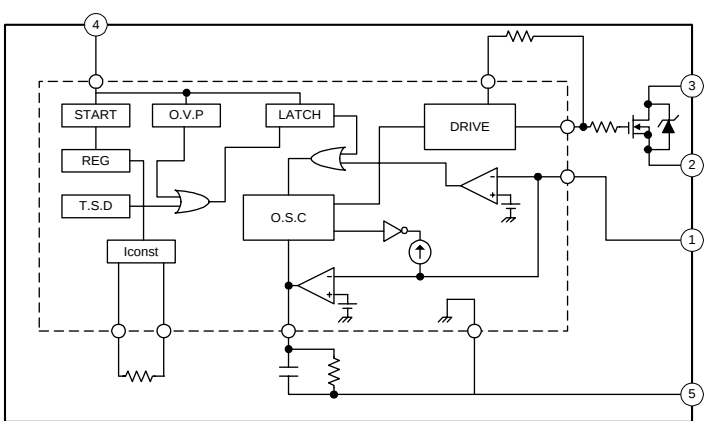
A BOARD IC101 TDA9817/V1



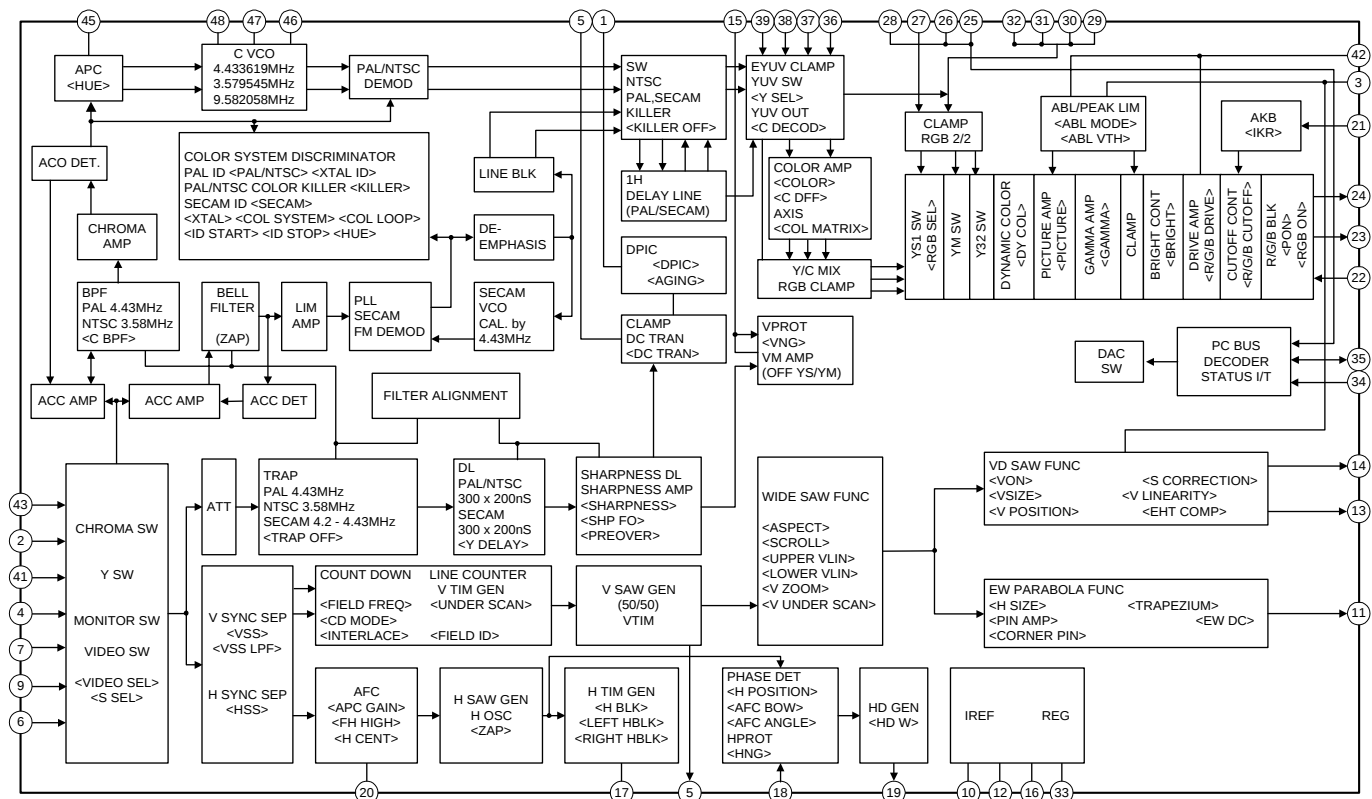
A BOARD IC201 TDA7495



A BOARD IC606 STR-F6654



A BOARD IC301 CXA2060AS



SECTION 6 EXPLODED VIEWS

NOTE :

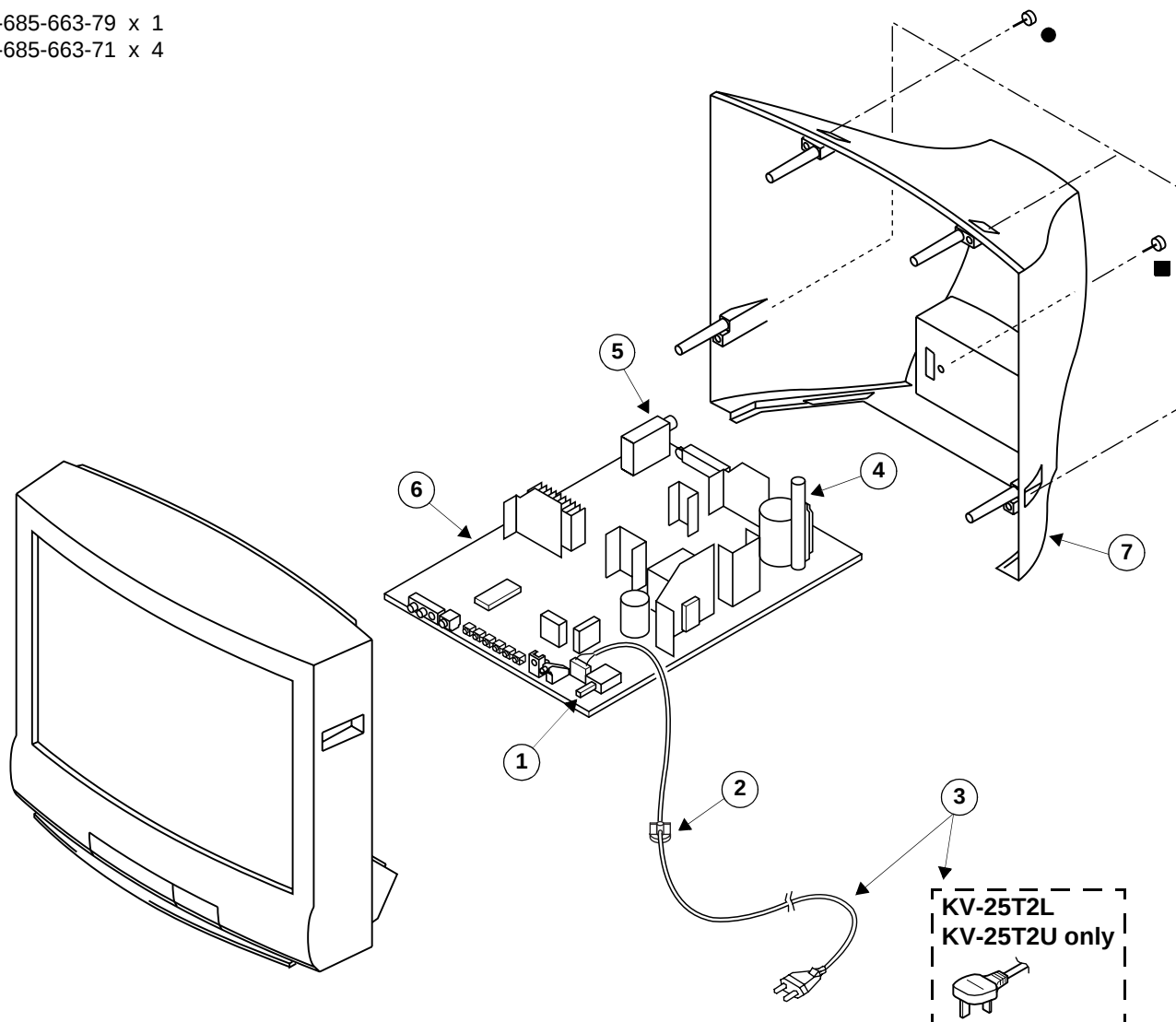
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked “*” are not stocked since they are seldom required for routine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

Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces du numéro spécifié.

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

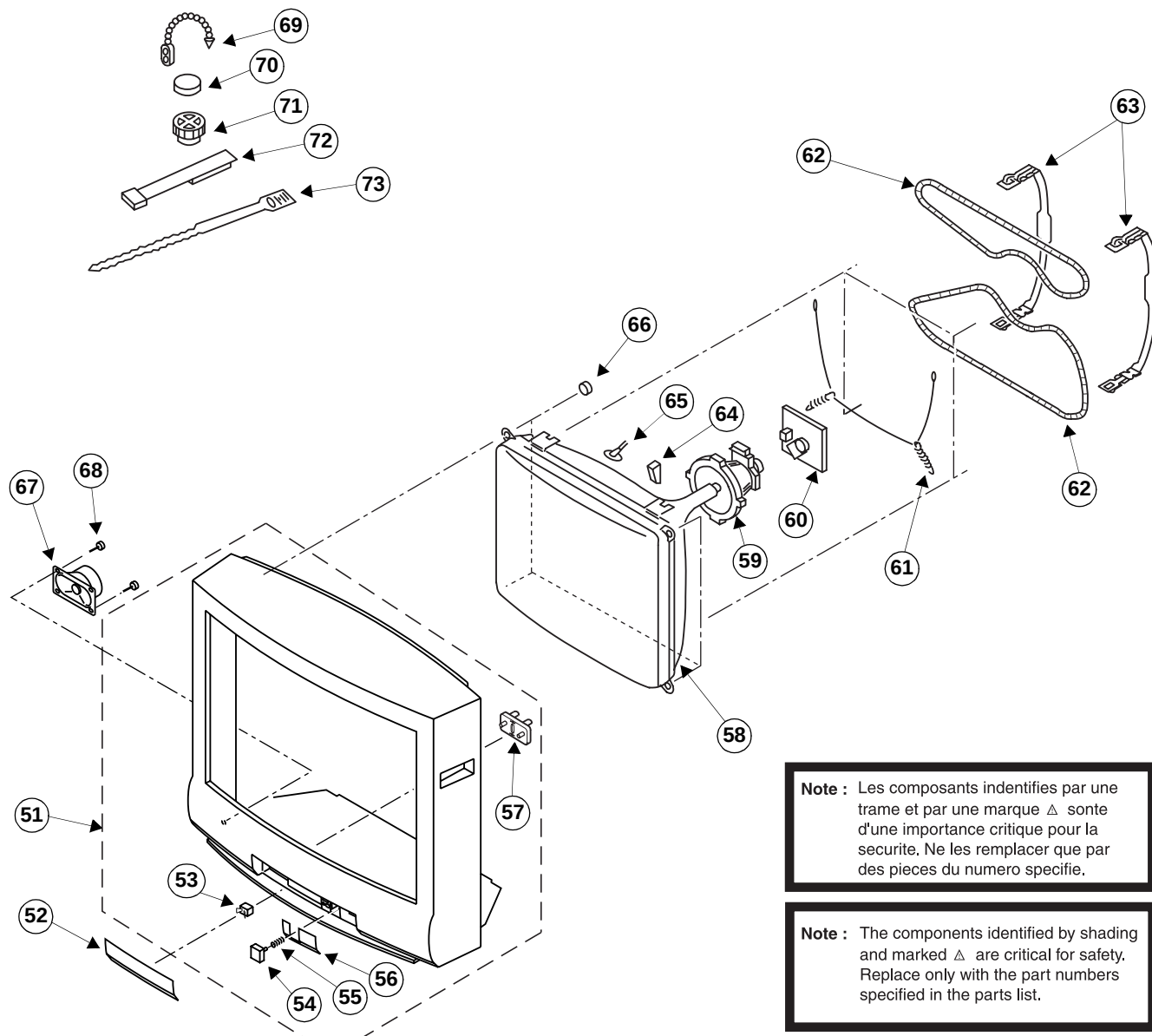
6-1. CHASSIS

- 7-685-663-79 x 1
- 7-685-663-71 x 4



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
1	Δ 1-571-433-21	SWITCH, PUSH (AC POWER)		6	*A-1632-761-A	A BOARD, COMPLETE (KV-25M2A)	
2	4-202-531-01	AC CORD LOCK (SC)			*A-1632-762-A	A BOARD, COMPLETE (KV-25T2A)	
3	Δ 1-765-286-11	CORD, POWER (KV-25M2A/25T2A/25T2B/25M2D/25T2D/25M2E/ KV-25T2E/25T2K/25M2K)			*A-1632-788-A	A BOARD, COMPLETE (KV-25T2B)	
	Δ 1-776-860-11	POWER CORD, FILTER (UK) (KV-25T2L/25T2U)			*A-1632-756-A	A BOARD, COMPLETE (KV-25M2D)	
	Δ 1-690-270-21	CORD, POWER (WITH CONNECTOR) (KV-25T2R)			*A-1632-755-A	A BOARD, COMPLETE (KV-25T2D)	
4	Δ 1-453-264-11	TRANSFORMER ASSY, FLYBACK (NX-1680/U2B4)			*A-1632-758-A	A BOARD, COMPLETE (KV-25M2E)	
5	8-598-331-02	TUNER (VSS BT-AC401) (KV-25M2A/25T2A/25M2D/25T2D/25M2E/25T2E/ KV-25M2K/25T2K/25T2L/25T2R/25T2U)			*A-1632-754-A	A BOARD, COMPLETE (KV-25T2E)	
	1-693-310-11	TUNER (TELE-002B) (KV-25T2B)			*A-1632-767-A	A BOARD, COMPLETE (KV-25M2K)	
					*A-1632-766-A	A BOARD, COMPLETE (KV-25T2K)	
					*A-1632-765-A	A BOARD, COMPLETE (KV-25T2L)	
					*A-1632-764-A	A BOARD, COMPLETE (KV-25T2R)	
					*A-1632-763-A	A BOARD, COMPLETE (KV-25T2U)	
				7	4-203-259-21	COVER, REAR	

6-2. PICTURE TUBE



REF. NO.	PART. NO	DESCRIPTION	REMARK
51	X-4200-391-1	BEZNET ASSY	53-57
52	4-204-212-01	DOOR, BARE (KV-25M2A/25M2D/25M2E/25M2K)	
	4-204-211-11	DOOR, PRINTED (KV-25T2A)	
	4-204-211-01	DOOR, PRINTED (KV-25T2B/25T2D/25T2E/ KV-25T2K/25T2L/25T2R/ KV-25T2U)	
53	4-047-464-01	CATCHER, PUSH	
54	4-204-216-01	BUTTON, POWER	
55	4-202-964-01	SPRING	
56	4-204-215-01	WINDOW	
57	4-204-213-01	GUIDE LIGHT	
58	Δ 8-733-254-05	PICTURE TUBE (SD-257) (M60LCS60X)	
59	Δ 8-451-404-23	DEFLECTION YOKE (Y25GXABA)	
60	*A-1638-111-A	C BOARD COMPLETE	

REF. NO.	PART. NO	DESCRIPTION	REMARK
61	4-369-318-21	SPRING, TENSION	
62	Δ 1-416-465-21	COIL, DEMAGNETIC	
63	4-202-745-01	HOLDER, DGC (25)	
64	3-704-495-01	SPACER, DY	
65	Δ 1-251-317-31	CAP ASSY, HIGH VOLTAGE	
66	4-203-043-01	SCREW (PT)	
67	1-504-698-11	SPEAKER (5X9CM)	
68	7-685-648-79	SCREW +BVTP 3X12	
69	4-308-870-00	CLIP, LEAD WIRE	
70	1-425-032-00	MAGNET, DISK; 10MM Ø	
71	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
72	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
73	3-701-007-00	BAND, BINDING	

SECTION 7 ELECTRICAL PARTS LIST

Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces du numéro spécifié.

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

- 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.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- RESISTORS
- All resistors are in ohms.
- F : nonflammable.

CAPACITORS
MF : mF, PF : mmF

COILS
MMH : mH , uH

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
	*A-1632-761-A	A BOARD COMPLETE (KV-25M2A) *****		C016	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
	*A-1632-762-A	A BOARD COMPLETE (KV-25T2A) *****		C018	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
	*A-1632-788-A	A BOARD COMPLETE (KV-25T2B) *****		C019	1-163-038-00	CERAMIC CHIP 0.1MF	25V
	*A-1632-756-A	A BOARD COMPLETE (KV-25M2D) *****		C022	1-126-935-11	ELECT 470MF	20% 16V
	*A-1632-755-A	A BOARD COMPLETE (KV-25T2D) *****		C024	1-126-964-11	ELECT 10MF	20% 50V
	*A-1632-758-A	A BOARD COMPLETE (KV-25M2E) *****		C025	1-126-960-11	ELECT 1MF	20% 50V
	*A-1632-754-A	A BOARD COMPLETE (KV-25T2E) *****		C029	1-163-077-00	CERAMIC CHIP 0.1MF	10% 25V
	*A-1632-767-A	A BOARD COMPLETE (KV-25M2K) *****		C030	1-126-923-91	ELECT 220MF	20% 10V
	*A-1632-766-A	A BOARD COMPLETE (KV-25T2K) *****		C031	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
	*A-1632-765-A	A BOARD COMPLETE (KV-25T2L) *****		C032	1-163-077-00	CERAMIC CHIP 0.1MF	10% 25V
	*A-1632-764-A	A BOARD COMPLETE (KV-25T2R) *****		C033	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
	*A-1632-763-A	A BOARD COMPLETE (KV-25T2U) *****		C035	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
	4-382-854-11	SCREW (M3X10), P, SW (+)		C036	1-163-017-91	CERAMIC CHIP 4700PF	10% 50V
	< CAPACITOR >			C037	1-163-017-91	CERAMIC CHIP 4700PF	10% 50V
C001	1-104-665-11	ELECT 100MF	20% 25V	C038	1-126-964-11	ELECT 10MF	20% 50V
C002	1-126-965-11	ELECT 22MF	20% 50V	C039	1-163-017-91	CERAMIC CHIP 4700PF	10% 50V
C004	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C040	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C005	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	C041	1-163-205-00	CERAMIC CHIP 0.001MF	10% 50V
C006	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	C042	1-126-933-11	ELECT 100MF	20% 16V
C007	1-126-935-11	ELECT 470MF	20% 16V	C043	1-126-935-11	ELECT 470MF	20% 16V
C008	1-126-964-11	ELECT 10MF	20% 50V	C100	1-163-031-11	CERAMIC CHIP 0.01MF	50V (KV-25T2B)
C009	1-126-965-11	ELECT 22MF	20% 50V	C101	1-164-665-11	CERAMIC CHIP 0.039MF	10% 50V
C011	1-126-965-11	ELECT 22MF	20% 50V	C102	1-164-665-11	CERAMIC CHIP 0.039MF	10% 50V
C012	1-126-959-11	ELECT 0.47MF	20% 50V	C103	1-104-665-11	ELECT 100MF	20% 25V
C013	1-163-017-91	CERAMIC CHIP 4700PF	10% 50V	C105	1-126-965-11	ELECT 22MF	20% 50V
				C106	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
				C107	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C108	1-163-465-11	CERAMIC CHIP 9PF	0.25PF 50V
				C109	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C110	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C111	1-163-059-00	CERAMIC CHIP 0.01MF	50V
				C112	1-163-031-11	CERAMIC CHIP 0.01MF	50V
				C113	1-126-965-11	ELECT 22MF	20% 50V
				C114	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V

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REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C115	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C319	1-126-964-11	ELECT 10MF	20% 50V
C116	1-126-961-11	ELECT 2.2MF	20% 50V	C321	1-126-963-11	ELECT 4.7MF	20% 50V
C117	1-126-961-11	ELECT 2.2MF	20% 50V	C322	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C118	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C328	1-104-664-91	ELECT 47MF	20% 25V
C119	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C329	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
		(KV-25T2B)					
C120	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C330	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C121	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C331	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
		(KV-25T2B)		C332	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C122	1-104-665-11	ELECT 100MF	20% 25V	C333	1-126-960-11	ELECT 1MF	20% 50V
		(KV-25T2B)		C334	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C126	1-163-101-00	CERAMIC CHIP 22PF	5% 50V	C335	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C127	1-164-005-11	CERAMIC CHIP 0.47MF	16V	C336	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C128	1-164-005-11	CERAMIC CHIP 0.47MF	16V	C337	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C129	1-126-963-11	ELECT 4.7MF	20% 50V	C338	1-126-967-11	ELECT 47MF	20% 50V
C130	1-164-005-11	CERAMIC CHIP 0.47MF	16V	C339	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C131	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C350	1-163-017-91	CERAMIC CHIP 4700PF	10% 50V
C133	1-162-638-11	CERAMIC CHIP 1MF	16V	C351	1-163-017-91	CERAMIC CHIP 4700PF	10% 50V
		(KV-25T2B)		C401	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C134	1-128-551-11	ELECT 22MF	20% 25V	C402	1-126-960-11	ELECT 1MF	20% 50V
C135	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C403	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C138	1-165-319-11	CERAMIC CHIP 0.1MF	50V	C405	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C139	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C406	1-126-960-11	ELECT 1MF	20% 50V
C140	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C407	1-126-964-11	ELECT 10MF	20% 50V
C141	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	C408	1-126-964-11	ELECT 10MF	20% 50V
C142	1-126-967-11	ELECT 47MF	20% 16V	C410	1-107-714-11	ELECT 10MF	20% 16V
C143	1-104-664-11	ELECT 47MF	20% 25V	C426	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C201	1-104-666-11	ELECT 220MF	20% 25V	C427	1-535-143-61	LEAD, JUMPER (5.0MM)	
C203	1-126-942-61	ELECT 1000MF	20% 25V	C433	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C206	1-126-960-11	ELECT 1MF	20% 50V	C434	1-126-935-11	ELECT 470MF	20% 16V
C207	1-126-972-11	ELECT 1000MF	20% 50V	C435	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C210	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C436	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C211	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C437	1-124-903-91	ELECT 1MF	20% 50V
C215	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C445	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C301	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C501	1-126-968-11	ELECT 100MF	20% 50V
C302	1-126-967-11	ELECT 47MF	20% 16V	C502	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C303	1-101-004-00	CERAMIC 0.01MF	50V	C503	1-126-968-11	ELECT 100MF	20% 50V
C304	1-126-964-11	ELECT 10MF	20% 50V	C504	1-106-220-00	MYLAR 0.1MF	10% 100V
C305	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	C505	1-136-173-00	FILM 0.47MF	5% 50V
C307	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C506	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C308	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C507	1-126-933-11	ELECT 100MF	20% 16V
C309	1-126-963-11	ELECT 4.7MF	20% 50V	C508	1-126-960-11	ELECT 1MF	20% 50V
C312	1-163-099-00	CERAMIC CHIP 18PF	5% 50V	C509	1-137-047-11	FILM 0.01MF	10% 400V
C313	1-163-099-00	CERAMIC CHIP 18PF	5% 50V	C510	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C314	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C512	1-162-114-00	CERAMIC 0.0047MF	2KV
C316	1-163-259-91	CERAMIC CHIP 220PF	5% 50V	C513	1-107-662-11	ELECT 22MF	20% 250V
C317	1-136-169-00	FILM 0.22MF	5% 50V	C515	1-104-666-11	ELECT 220MF	20% 25V
				C517	1-104-666-11	ELECT 220MF	20% 25V

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

KV-25M2/25T2

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C518	1-106-375-12	MYLAR 0.022MF	99% 200V	C624	1-104-665-11	ELECT 100MF	20% 25V
C519	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C625	1-104-665-11	ELECT 100MF	20% 25V
C520	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C628	1-124-347-00	ELECT 100MF	20% 160V
C522	1-130-495-00	FILM 0.1MF	5% 50V	C629	1-136-189-00	FILM 0.1MF	10% 250V
C531	1-126-964-11	ELECT 10MF	20% 50V	C630	1-165-127-11	CERAMIC 470PF	10% 500V
C532	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V	C633	1-104-332-11	CERAMIC 470PF	10% 2KV
C535	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C635	1-107-675-11	ELECT 1MF	20% 160V
C536	1-115-522-11	FILM 1MF	5% 200V	C638	1-107-670-11	ELECT 10MF	20% 400V
C537	1-137-417-11	MYLAR 0.0047MF	10% 200V	(KV-25M2A/25T2A/25T2B/25M2D/25T2D/25M2E/ KV-25T2E/25M2K/25T2K/25T2L/25T2U)			
C539	1-111-230-11	ELECT 1MF	20% 160V	1-107-679-91	ELECT 10MF	20% 450V	(KV-25T2R)
C540	1-136-206-11	FILM 0.033MF	10% 400V	C639	1-104-665-11	ELECT 100MF	20% 25V
C541	1-106-383-00	MYLAR 0.047MF	10% 200V	C640	1-104-664-11	ELECT 47MF	20% 25V
C542	1-162-134-11	CERAMIC 470PF	10% 2KV	C641	1-104-665-11	ELECT 100MF	20% 25V
C543	1-162-134-11	CERAMIC 470PF	10% 2KV	C642	1-104-665-11	ELECT 100MF	20% 25V
C545	1-126-960-11	ELECT 1MF	20% 50V	< FILTER >			
C546	1-130-895-00	FILM 0.056MF	5% 400V	CF101	1-404-801-11	TRAP, CERAMIC	(KV-25M2A/25T2A/25M2D/25T2D/25M2E/ KV-25T2E/25M2K/25T2K/25T2R)
C547	1-117-813-11	FILM 0.75MF	5% 200V	1-409-430-11	TRAP, CERAMIC	(KV-25T2B)	
C548	1-162-134-11	CERAMIC 470PF	10% 2KV	1-409-429-11	TRAP, CERAMIC	(KV-25T2L/25T2U)	
C550	1-107-638-11	ELECT 33MF	20% 160V	CF102	1-567-101-11	FILTER, CERAMIC	(KV-25M2K/25T2K/25T2R)
C552	1-102-212-00	CERAMIC 820PF	10% 500V	CF103	1-760-106-11	FILTER, CERAMIC	(KV-25M2A/25T2A/25T2B/25M2D/25T2D/ KV-25M2E/25T2E/25T2K/25M2R/25T2R)
C553	1-137-417-11	MYLAR 0.0047MF	10% 200V	1-567-100-11	FILTER, CERAMIC	(KV-25T2L)	
C555	1-117-717-11	FILM 17000PF	3% 1.2KV	1-567-100-00	FILTER, CERAMIC	(KV-25T2U)	
C571	1-123-024-21	ELECT 33MF	160V	CF104	1-409-327-00	TRAP, CERAMIC (6.5MHZ)	(KV-25M2K/25T2K/25T2R)
C572	1-128-526-11	ELECT 100MF	20% 16V	CF105	1-760-154-11	TRAP, CERAMIC	(KV-25T2B/25T2U)
C580	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	SWF101	1-579-120-11	FILTER, SURFACE WAVE	(KV-25M2A/25T2A/25M2D/25T2D/25M2E/25T2E)
C582	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	1-579-273-11	FILTER, SURFACE WAVE	(KV-25T2B)	
C584	1-126-963-11	ELECT 4.7MF	20% 50V	1-579-414-11	FILTER, SAWTOOTH WAVE	(KV-25M2K/25T2K/25T2R)	
C601 Δ	1-107-563-11	FILM 0.1MF	20% 300V	1-760-711-11	FILTER, SURFACE WAVE	(KV-25T2L/25T2U)	
C602 Δ	1-107-563-11	FILM 0.1MF	20% 300V	SWF102	1-767-873-11	FILTER, SURFACE WAVE	(KV-25T2B)
C603 Δ	1-113-907-51	CERAMIC 0.0022MF	20% 250V	SWF103	1-767-083-11	FILTER, SURFACE WAVE	(KV-25T2B)
C604 Δ	1-113-907-51	CERAMIC 0.0022MF	20% 250V	< CONNECTOR >			
C605	1-104-652-11	ELECT 470MF	20% 10V	CN001	*1-564-508-11	PLUG, CONNECTOR 5P	
C606	1-125-555-11	ELECT (BLOCK) 330MF	20% 400V	CN201	*1-564-507-11	PLUG, CONNECTOR 4P	
		(KV-25M2A/25T2A/25T2B/25M2D/25T2D/25M2E/ KV-25T2E/25M2K/25T2K/25T2L/25T2U)		CN501	*1-580-798-21	CONNECTOR PIN (DY)	
	1-117-752-11	ELECT (BLOCK) 330MF	20% 450V	CN502	*1-691-135-11	PIN, CONNECTOR (PC BOARD) 4P	
		(KV-25T2R)		CN504	*1-564-509-11	PLUG, CONNECTOR 6P	
C607	1-161-754-00	CERAMIC 0.001MF	10% 2KV	CN506	1-695-915-11	TAB (CONTACT)	
C609	1-107-915-91	ELECT 2200MF	20% 50V				
C610	1-104-665-11	ELECT 100MF	20% 25V				
C611	1-165-127-11	CERAMIC 470PF	10% 500V				
C612 Δ	1-161-964-51	CERAMIC 0.0047MF	250V				
C613 Δ	1-161-964-51	CERAMIC 0.0047MF	250V				
C615	1-130-202-00	FILM 0.022MF	10% 400V				
C618	1-107-890-11	ELECT 2200MF	20% 25V				
C621	1-163-005-11	CERAMIC CHIP 470PF	10% 50V				
C622 Δ	1-161-964-51	CERAMIC 0.0047MF	250V				

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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
CN601	Δ *1-580-843-11	PIN, CONNECTOR (POWER)		D514	8-719-979-85	DIODE EGP20G	
CN602	Δ 1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		D534	8-719-302-43	DIODE EL1Z	
CN603	Δ 1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		D535	8-719-908-03	DIODE GP08D	
< DIODE >				D536	8-719-945-80	DIODE ERC06-15S	
D001	8-719-109-89	DIODE RD5.6ESB2		D538	8-719-908-03	DIODE GP08D	
D002	8-719-109-89	DIODE RD5.6ESB2		D539	8-719-312-10	DIODE RU4AM-T3	
D003	8-719-057-56	DIODE LS5360HL		D541	1-535-303-00	LEAD, JUMPER (5.0MM)	
	*4-203-258-01	HOLDER, LED (D003)		D571	8-719-911-19	DIODE 1SS119-25	
D004	8-719-109-89	DIODE RD5.6ESB2		D573	8-719-921-40	DIODE MTZJ-4.7C	
				D601	8-719-510-53	DIODE D4SB60L	
D005	8-719-109-89	DIODE RD5.6ESB2		D602	8-719-046-74	DIODE AU-01Z-V1	
D007	8-719-109-89	DIODE RD5.6ESB2		D603	8-719-046-74	DIODE AU-01Z-V1	
D008	8-719-991-33	DIODE 1SS133T-77		D605	8-719-312-10	DIODE RU4AM-T3	
D009	8-719-109-89	DIODE RD5.6ESB2		D608	8-719-067-88	DIODE RG1CLF-B1	
D010	8-719-109-89	DIODE RD5.6ESB2		D610	8-719-064-47	DIODE RN1Z	
D011	8-719-109-89	DIODE RD5.6ESB2		D613	8-719-911-19	DIODE 1SS119-25	
D012	8-719-914-43	DIODE DAN202K		D619	8-719-043-76	DIODE AK04-V0	
D014	8-719-058-24	DIODE RB501V-40TE-17		D621	8-719-911-55	DIODE U05G	
D015	8-719-914-43	DIODE DAN202K		D626	8-719-911-55	DIODE U05G	
D017	8-719-109-89	DIODE RD5.6ESB2		D627	8-719-510-26	DIODE D1NL20	
D018	8-719-991-33	DIODE 1SS133T-77		D628	8-719-059-23	DIODE P6KE200AG23	
D023	8-719-109-89	DIODE RD5.6ESB2		D629	8-719-979-64	DIODE UF4005PKG23	
D101	8-759-303-91	DIODE HZT33-02TD		D631	8-719-110-31	DIODE RD12ES-B2	
D104	8-719-914-43	DIODE DAN202K	(KV-25T2B)	D632	8-719-510-64	DIODE S24A20F	
D201	8-719-929-15	DIODE HZS9.1NB2		D633	8-719-109-89	DIODE RD5.6ESB2	
D202	8-719-914-43	DIODE DAN202K		D634	8-719-064-47	DIODE RN1Z	
D204	8-719-109-89	DIODE RD5.6ESB2		< FUSE >			
D205	8-719-109-89	DIODE RD5.6ESB2		F601	Δ 1-576-232-21	FUSE (H.B.C.) 5AMP 250V	
D206	8-719-109-89	DIODE RD5.6ESB2			Δ *1-533-725-11	HOLDER, FUSE (F601)	
D306	8-719-109-89	DIODE RD5.6ESB2		< FERRITE BEAD >			
D307	8-719-109-89	DIODE RD5.6ESB2		FB001	1-412-911-11	FERRITE 00H	
D308	8-719-109-72	DIODE RD3.9ES-B2		FB002	1-412-911-11	FERRITE 00H	
D309	8-719-991-33	DIODE 1SS133T-77		FB601	1-412-911-11	FERRITE 00H	
D320	8-719-929-15	HZS9.1NB2		FB602	1-412-911-11	FERRITE 00H	
D405	8-719-109-97	DIODE RD6.8ES-B2		FB605	1-410-397-21	FERRITE 1.1UH	
D406	8-719-109-97	DIODE RD6.8ES-B2		FB608	1-412-911-11	FERRITE 00H	
D407	8-719-109-97	DIODE RD6.8ES-B2		FB609	1-410-396-41	FERRITE 0.45UH	
D409	8-719-109-97	DIODE RD6.8ES-B2		FB610	1-410-397-21	FERRITE 1.1UH	
D422	8-719-109-97	DIODE RD6.8ES-B2		FB611	1-410-397-21	FERRITE 1.1UH	
D423	8-719-109-97	DIODE RD6.8ES-B2		FB612	1-535-303-00	LEAD, JUMPER (5.0MM)	
D424	8-719-929-15	DIODE HZS9.1NB2					
D425	8-719-929-15	DIODE HZS9.1NB2					
D427	8-719-109-97	DIODE RD6.8ES-B2					
D502	8-719-924-13	DIODE MTZJ-T-77-22B					
D511	8-719-028-72	DIODE RGP02-17EL-6433					
D512	8-719-302-43	DIODE EL1Z					
D513	8-719-979-85	DIODE EGP20G					

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

KV-25M2/25T2

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
< IC >				L302	1-408-611-31	INDUCTOR	47UH
IC001	8-759-531-94	IC SAA5491PS/M1A/019	(KV-25M2A/25M2D/ KV-25M2E/25M2K)	L303	1-408-609-41	INDUCTOR	33UH
	8-759-529-36	IC SAA5498PS/M1A/041	(KV-25T2A/25T2B/25T2E/ KV-25T2K/25T2L/25T2U)	L401	1-408-611-31	INDUCTOR	47UH
	8-759-529-24	IC SAA5498PS/M1A/042	(KV-25T2R)	L405	1-216-295-00	SHORT	0
	8-759-529-25	IC SAA5498PS/M1A/043	(KV-25T2D)	L501	1-408-611-31	INDUCTOR	47UH
IC002	8-742-014-11	HYB IC SBX1981-51		L502	1-412-529-11	INDUCTOR	22UH
IC003	8-759-468-56	IC MN1381T		L503	1-412-521-31	INDUCTOR	4.7UH
IC004	8-759-432-33	IC ST24W08FM6TR		L532	1-412-553-11	INDUCTOR	3.3MMH
IC101	8-759-466-49	IC TDA9817/V1		L533	1-406-989-21	INDUCTOR	0UH
		(KV-25M2A/25T2A/25M2D/25T2D/25M2E/25T2E/ KV-25M2K/25T2K/25T2L/25T2R/25T2U)		L535	1-459-111-00	INDUCTOR	0UH
	8-759-466-47	IC TDA9818/V1	(KV-25T2B)	L537	1-409-756-11	COIL, HORIZONTAL LINEARITY	
IC201	8-759-442-73	IC TDA7494		L540	1-535-303-00	LEAD, JUMPER (5.0MM)	
IC301	8-752-082-35	IC CXA2060AS		L571	1-412-533-21	INDUCTOR	47UH
IC501	8-759-192-71	IC STV9379		L602	1-408-611-31	INDUCTOR	47UH
IC531	8-759-450-95	IC LM393N		< TRANSISTOR >			
IC603	8-749-920-61	IC SE135N		Q004	8-729-216-22	TRANSISTOR 2SA1162-G	
IC604	8-759-524-82	IC TYA7805CTV		Q005	1-801-806-11	TRANSISTOR DTC144EKA	
IC605	8-759-524-83	IC TYA7809CTV		Q006	1-801-806-11	TRANSISTOR DTC144EKA	
IC606	8-749-013-75	IC STR-F6654		Q007	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC608	8-759-524-82	IC TYA7805CTV		Q008	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC609	8-759-468-89	IC TOP209P		Q009	8-729-620-06	TRANSISTOR 2SC3052-EF	
< PHOTO COUPLER >				Q010	8-729-620-06	TRANSISTOR 2SC3052-EF	
PH601 Δ	8-749-010-64	PHOTO COUPLER PC123F2		Q011	1-801-806-11	TRANSISTOR DTC144EKA	
< SOCKET >				Q012	8-729-620-06	TRANSISTOR 2SC3052-EF	
J201	1-764-606-11	JACK		Q014	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
J401	1-770-130-11	CONNECTOR (SQUARE TYPE) 21P		Q101	8-729-216-22	TRANSISTOR 2SA1162-G	
J402	1-784-968-11	JACK, PIN 2P		Q102	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
< COIL >				Q103	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L001	1-408-603-31	INDUCTOR	10UH	Q104	1-801-806-11	DTC144EKA	(KV-25M2K/25T2K/25T2R)
L102	1-408-600-31	INDUCTOR	5.6UH	Q105	1-801-806-11	DTC144EKA	(KV-25M2K/25T2K/25T2R)
L103	1-403-686-11	COIL		Q106	8-729-216-22	TRANSISTOR 2SA-1162G	
L104	1-410-671-31	INDUCTOR	47UH	Q107	8-729-022-54	TRANSISTOR 2SC3779C,D-AA	(KV-25T2B)
L106	1-408-611-31	INDUCTOR	47UH	Q109	1-801-806-11	TRANSISTOR DTC144EKA	(KV-25T2B)
L107	1-408-605-31	INDUCTOR	15UH	Q110	1-801-806-11	TRANSISTOR DTC144EKA	(KV-25T2B)
L108	1-410-985-11	INDUCTOR CHIP	0.22UH	Q111	8-729-216-22	TRANSISTOR 2SA1162-G	(KV-25T2B)
L109	1-410-789-11	INDUCTOR	0.47UH	Q112	1-801-806-11	TRANSISTOR DTC144EKA	(KV-25T2B)
L110	1-408-611-31	INDUCTOR	47UH	Q202	8-729-620-06	TRANSISTOR 2SC3052-EF	
L202	1-535-303-00	LEAD, JUMPER (5.0MM)		Q401	8-729-216-22	TRANSISTOR 2SA-1162-G	
L203	1-406-979-11	INDUCTOR	0UH	Q408	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L204	1-408-603-31	INDUCTOR	10UH	Q501	8-729-620-06	TRANSISTOR 2SC3052-EF	
L205	1-408-603-31	INDUCTOR	10UH	Q532	8-729-038-83	TRANSISTOR 2SK2251-01-F19	
				Q533	8-729-040-62	TRANSISTOR 2SD2539(LBSONY)	
				Q535	8-729-119-80	TRANSISTOR 2SC2688-LK	
				Q571	8-729-105-08	TRANSISTOR 2SA1330-06	
				Q574	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q575	1-801-806-11	TRANSISTOR DTC144EKA	

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REF. NO.	PART.NO	DESCRIPTION	REMARK			REF. NO.	PART.NO	DESCRIPTION	REMARK		
Q576	8-729-120-28	TRANSISTOR 2SC1623-L5L6				R039	1-216-089-00	RES,CHIP	47K	5%	1/10W
Q601	8-729-216-22	TRANSISTOR 2SA1162-G				R044	1-216-295-00	SHORT	0		
		< RESISTOR >				R045	1-216-295-00	SHORT	0		
JR012	1-216-295-00	SHORT	0			R046	1-216-089-00	RES,CHIP	47K	5%	1/10W
JR023	1-216-296-00	SHORT	0			R047	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
JR032	1-216-295-00	SHORT	0			R048	1-216-081-00	RES,CHIP	22K	5%	1/10W
JR090	1-216-295-00	SHORT	0			R049	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
JR101	1-216-295-00	SHORT	0			R050	1-216-041-00	RES,CHIP	470	5%	1/10W
						R051	1-216-049-00	RES,CHIP	1K	5%	1/10W
JR102	1-216-295-00	SHORT	0			R053	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
JR107	1-216-295-00	SHORT	0			R054	1-216-041-00	RES,CHIP	470	5%	1/10W
JR108	1-216-077-00	RES,CHIP	15K	5%	1/10W	R055	1-216-081-00	RES,CHIP	22K	5%	1/10W
JR109	1-216-295-00	SHORT	0			R056	1-216-105-91	RES,CHIP	220K	5%	1/10W
JR110	1-216-295-00	SHORT	0			R057	1-216-075-00	RES,CHIP	12K	5%	1/10W
		(KV-25M2A/25T2A/25T2B/25M2D/25T2D/ KV-25M2E/25T2E/25T2L/25T2U)				R058	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
JR115	1-216-295-00	SHORT	0			R059	1-216-089-00	RES,CHIP	47K	5%	1/10W
JR116	1-216-295-00	SHORT	0			R060	1-216-174-00	RES,CHIP	100	5%	1/8W
JR200	1-216-295-00	SHORT	0			R061	1-216-174-00	RES,CHIP	100	5%	1/8W
JR403	1-216-073-00	RES,CHIP	10K	5%	1/10W	R062	1-216-033-00	RES,CHIP	220	5%	1/10W
JR412	1-216-077-00	RES,CHIP	15K	5%	1/10W	R063	1-216-065-00	RES,CHIP	4.7K	5%	1/10W (KV-25T2B)
JR610	1-216-296-00	SHORT	0			R064	1-216-065-00	RES,CHIP	4.7K	5%	1/10W (KV-25T2B)
JW220	1-249-417-11	CARBON	1K	5%	1/4W	R065	1-216-025-00	RES,CHIP	100	5%	1/10W
R001	1-216-025-00	RES,CHIP	100	5%	1/10W	R066	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R002	1-216-025-00	RES,CHIP	100	5%	1/10W	R067	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R003	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R068	1-216-073-00	RES,CHIP	10K	5%	1/10W
R004	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R069	1-216-049-00	RES,CHIP	1K	5%	1/10W
R005	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R070	1-216-081-00	RES,CHIP	22K	5%	1/10W
R006	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R071	1-216-214-00	RES,CHIP	4.7K	5%	1/8W
R007	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R072	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R008	1-216-025-00	RES,CHIP	100	5%	1/10W	R075	1-216-069-91	RES,CHIP	6.8K	5%	1/10W
R009	1-216-025-00	RES,CHIP	100	5%	1/10W	R077	1-216-083-00	RES,CHIP	27K	5%	1/10W
R010	1-216-025-00	RES,CHIP	100	5%	1/10W	R078	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R011	1-216-025-00	RES,CHIP	100	5%	1/10W	R079	1-216-049-00	RES,CHIP	1K	5%	1/10W
R012	1-247-807-31	CARBON	100	5%	1/4W	R080	1-216-049-71	RES,CHIP	1K	5%	1/10W
R013	1-216-214-00	RES,CHIP	4.7K	5%	1/8W	R081	1-216-049-71	RES,CHIP	1K	5%	1/10W
R014	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R082	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R015	1-216-049-00	RES,CHIP	1K	5%	1/10W	R083	1-216-031-00	RES,CHIP	180	5%	1/10W
R016	1-216-073-71	RES,CHIP	10K	5%	1/10W	R084	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R019	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R085	1-216-031-00	RES,CHIP	180	5%	1/10W
R023	1-216-295-00	SHORT	0			R086	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R029	1-216-073-00	RES,CHIP	10K	5%	1/10W	R087	1-216-180-00	RES,CHIP	180	5%	1/8W
R032	1-216-089-00	RES,CHIP	47K	5%	1/10W	R088	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R034	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R093	1-216-230-00	RES,CHIP	22K	5%	1/8W
R035	1-216-049-00	RES,CHIP	1K	5%	1/10W	R094	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R036	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R095	1-216-025-00	RES,CHIP	100	5%	1/10W
R038	1-216-073-00	RES,CHIP	10K	5%	1/10W	R096	1-247-807-31	CARBON	100	5%	1/4W
						R097	1-247-807-31	CARBON	100	5%	1/4W

REF.NO.	PART.NO	DESCRIPTION	REMARK			REF.NO.	PART.NO	DESCRIPTION	REMARK		
R101	1-216-049-00	RES,CHIP	1K	5%	1/10W	R153	1-216-180-00	RES,CHIP	180	5%	1/8W (KV-25T2B)
R102	1-216-109-00	RES,CHIP	330K	5%	1/10W	R154	1-216-238-91	RES,CHIP	47K	5%	1/8W
R104	1-216-081-00	RES,CHIP	22K	5%	1/10W	R155	1-216-089-00	RES,CHIP	47K	5%	1/10W
R105	1-216-081-00	RES,CHIP	22K	5%	1/10W	R156	1-216-073-00	RES,CHIP	10K	5%	1/10W (KV-25T2B)
R106	1-215-900-11	METAL OXIDE	22K	5%	2W F	R157	1-216-063-91	RES,CHIP	3.9K	5%	1/10W (KV-25T2B)
R107	1-216-230-00	RES,CHIP	22K	5%	1/8W	R158	1-216-069-00	RES,CHIP	6.8K	5%	1/10W (KV-25T2B)
R108	1-216-081-00	RES,CHIP	22K	5%	1/10W	R201	1-216-033-00	RES,CHIP	220	5%	1/10W
R109	1-216-073-00	RES,CHIP	10K	5%	1/10W	R204	1-247-863-91	CARBON	22K	5%	1/4W
R110	1-216-206-00	RES,CHIP	2.2K	5%	1/8W (KV-25T2B)	R205	1-216-033-00	RES,CHIP	220	5%	1/10W
R111	1-216-057-00	RES,CHIP	2.2K	5%	1/10W (KV-25T2B)	R206	1-216-085-00	RES,CHIP	33K	5%	1/10W
R112	1-216-057-00	RES,CHIP	2.2K	5%	1/10W (KV-25T2B)	R209	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R113	1-216-049-00	RES,CHIP	1K	5%	1/10W	R211	1-215-873-00	METAL OXIDE	4.7K	5%	1W F
R114	1-216-057-00	RES,CHIP	2.2K	5%	1/10W (KV-25M2K/25T2K/25T2R)	R301	1-216-025-00	RES,CHIP	100	5%	1/10W
R115	1-216-057-00	RES,CHIP	2.2K	5%	1/10W (KV-25M2K/25T2K/25T2R)	R302	1-216-081-00	RES,CHIP	22K	5%	1/10W
R117	1-216-049-00	RES,CHIP	1K	5%	1/10W	R303	1-216-073-00	RES,CHIP	10K	5%	1/10W
R118	1-216-295-00	SHORT	0			R304	1-216-073-00	RES,CHIP	10K	5%	1/10W
R119	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R306	1-216-206-00	RES,CHIP	2.2K	5%	1/8W
R120	1-216-037-00	RES,CHIP	330	5%	1/10W	R309	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R123	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R310	1-216-022-00	RES,CHIP	75	5%	1/10W
R124	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R311	1-216-022-00	RES,CHIP	75	5%	1/10W
R125	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R313	1-216-025-00	RES,CHIP	100	5%	1/10W
R127	1-216-031-00	RES,CHIP	180	5%	1/10W (KV-25T2B)	R314	1-216-025-00	RES,CHIP	100	5%	1/10W
R128	1-216-065-00	RES,CHIP	4.7K	5%	1/10W (KV-25T2B)	R315	1-216-075-91	RES,CHIP	12K	5%	1/10W
R129	1-216-063-91	RES,CHIP	3.9K	5%	1/10W (KV-25T2B)	R316	1-216-025-00	RES,CHIP	100	5%	1/10W
R131	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R317	1-216-049-00	RES,CHIP	1K	5%	1/10W
R132	1-216-295-00	SHORT	0			R318	1-216-025-00	RES,CHIP	100	5%	1/10W
R133	1-216-295-00	SHORT	0			R319	1-216-025-00	RES,CHIP	100	5%	1/10W
						R320	1-216-025-00	RES,CHIP	100	5%	1/10W
						R321	1-216-025-00	RES,CHIP	100	5%	1/10W
						R323	1-216-025-00	RES,CHIP	100	5%	1/10W
						R324	1-412-002-21	INDUCTOR CHIP	4.7UH		
						R325	1-412-002-21	INDUCTOR CHIP	4.7UH		
						R326	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
						R331	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
						R332	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R135	1-216-043-91	RES,CHIP	560	5%	1/10W (KV-25M2K/25T2K/25T2R)	R333	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R136	1-216-043-91	RES,CHIP	560	5%	1/10W	R334	1-216-025-00	RES,CHIP	100	5%	1/10W
R142	1-216-295-00	SHORT	0			R335	1-216-025-00	RES,CHIP	100	5%	1/10W
R143	1-216-027-00	RES,CHIP	120	5%	1/10W	R337	1-216-065-71	RES,CHIP	4.7K	5%	1/10W
R144	1-216-079-00	RES,CHIP	18K	5%	1/10W	R338	1-216-049-00	RES,CHIP	1K	5%	1/10W
R145	1-216-212-00	RES,CHIP	3.9K	5%	1/8W	R401	1-216-113-00	RES,CHIP	470K	5%	1/10W
R147	1-216-017-91	RES,CHIP	47	5%	1/10W (KV-25T2B)	R403	1-216-041-00	RES,CHIP	470	5%	1/10W
R148	1-216-174-00	RES,CHIP	100	5%	1/8W (KV-25T2B)	R404	1-216-113-00	RES,CHIP	470K	5%	1/10W
R149	1-216-049-00	RES,CHIP	1K	5%	1/10W (KV-25T2B)	R405	1-216-041-00	RES,CHIP	470	5%	1/10W
R150	1-216-025-00	RES,CHIP	100	5%	1/10W (KV-25M2K/25T2K/25T2R)	R406	1-216-113-00	RES,CHIP	470K	5%	1/10W
R151	1-216-049-00	RES,CHIP	1K	5%	1/10W	R408	1-216-022-00	RES,CHIP	75	5%	1/10W
R152	1-216-025-00	RES,CHIP	100	5%	1/10W (KV-25T2B)	R409	1-216-025-00	RES,CHIP	100	5%	1/10W

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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
R410	1-216-025-00	RES,CHIP	100 5% 1/10W	R520	1-215-884-11	METAL OXIDE	47 5% 2W F
R411	1-216-022-00	RES,CHIP	75 5% 1/10W	R521	1-216-117-00	RES,CHIP	680K 5% 1/10W
R412	1-216-025-00	RES,CHIP	100 5% 1/10W	R522	1-216-097-00	RES,CHIP	100K 5% 1/10W
R413	1-216-295-00	SHORT	0	R523	1-216-121-91	RES,CHIP	1M 5% 1/10W
R414	1-216-022-00	RES,CHIP	75 5% 1/10W	R524	1-216-083-00	RES,CHIP	27K 5% 1/10W
R415	1-216-022-00	RES,CHIP	75 5% 1/10W	R525	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R417	1-247-804-11	CARBON	75 5% 1/4W	R526	1-216-089-00	RES,CHIP	47K 5% 1/10W
		(KV-25M2A/25T2A/25T2B/25M2D/25T2D/ KV-25M2E/25T2E/25M2K/25T2K/25T2R)		R527	1-216-077-00	RES,CHIP	15K 5% 1/10W
	1-247-698-11	CARBON	68 5% 1/4W	R528	1-216-246-00	RES,CHIP	100K 5% 1/8W
		(KV-25T2L/25T2U)		R529	1-216-073-00	RES,CHIP	10K 5% 1/10W
R418	1-249-413-11	CARBON	470 5% 1/4W	R530	1-216-085-00	RES,CHIP	33K 5% 1/10W
		(KV-25M2A/25T2A/25T2B/25M2D/25T2D/ KV-25M2E/25T2E/25M2K/25T2K/25T2R)		R531	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
	1-249-414-11	CARBON	560 5% 1/4W	R532	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
		(KV-25T2L/25T2U)		R533	1-216-073-00	RES,CHIP	10K 5% 1/10W
R419	1-216-022-00	RES,CHIP	75 5% 1/10W	R534	1-216-105-91	RES,CHIP	220K 5% 1/10W
R420	1-216-041-00	RES,CHIP	470 5% 1/10W	R535	1-216-109-00	RES,CHIP	330K 5% 1/10W
R421	1-216-113-00	RES,CHIP	470K 5% 1/10W	R539	1-216-049-00	RES,CHIP	1K 5% 1/10W
R422	1-216-295-00	SHORT	0	R540	1-215-861-00	METAL OXIDE	47 5% 1W F
R425	1-216-077-00	RES,CHIP	15K 5% 1/10W	R541	1-216-095-00	RES,CHIP	82K 5% 1/10W
R426	1-216-073-00	RES,CHIP	10K 5% 1/10W	R542	1-216-089-00	RES,CHIP	47K 5% 1/10W
R446	1-216-113-00	RES,CHIP	470K 5% 1/10W	R543	1-216-089-00	RES,CHIP	47K 5% 1/10W
R447	1-216-077-00	RES,CHIP	15K 5% 1/10W	R546	1-249-401-11	CARBON	47 5% 1/4W F
R450	1-216-041-00	RES,CHIP	470 5% 1/10W	R547	1-535-143-71	LEAD, JUMPER (7.5MM)	
R454	1-216-041-00	RES,CHIP	470 5% 1/10W	R548	1-212-849-00	FUSIBLE	4.7 5% 1/4W F
R455	1-216-077-00	RES,CHIP	15K 5% 1/10W	R549	1-216-341-11	METAL OXIDE	0.22 5% 1W F
R457	1-216-025-00	RES,CHIP	100 5% 1/10W	R551	1-215-873-00	METAL OXIDE	4.7K 5% 1W F
R459	1-247-807-31	CARBON	100 5% 1/4W	R552	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R501	1-216-081-00	RES,CHIP	22K 5% 1/10W	R553	1-249-381-11	CARBON	1 5% 1/4W F
R502	1-216-097-00	RES,CHIP	100K 5% 1/10W	R571	1-249-417-11	CARBON	1K 5% 1/4W F
R503	1-215-888-00	METAL OXIDE	220 5% 2W F	R572	1-216-369-00	METAL OXIDE	1 5% 2W F
R504	1-249-385-11	CARBON	2.2 5% 1/4W F	R573	1-216-101-00	RES,CHIP	150K 5% 1/10W
R505	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R574	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R506	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R575	1-216-097-00	RES,CHIP	100K 5% 1/10W
R507	1-216-349-00	METAL OXIDE	1 5% 1W F	R581	1-216-089-00	RES,CHIP	47K 5% 1/10W
R508	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R582	1-216-089-00	RES,CHIP	47K 5% 1/10W
R509	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R583	1-216-081-00	RES,CHIP	22K 5% 1/10W
R510	1-216-081-00	RES,CHIP	22K 5% 1/10W	R588	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R511	1-215-869-11	METAL OXIDE	1K 5% 1W F	R589	1-216-097-00	RES,CHIP	100K 5% 1/10W
R512	1-249-382-11	CARBON	1.2 5% 1/4W F	R590	1-216-081-00	RES,CHIP	22K 5% 1/10W
R513	1-216-097-00	RES,CHIP	100K 5% 1/10W	R591	1-215-892-11	METAL OXIDE	1K 5% 2W F
R514	1-249-377-11	CARBON	0.47 5% 1/4W F	R593	1-249-439-11	CARBON	68K 5% 1/4W
R515	1-249-377-11	CARBON	0.47 5% 1/4W F	R594	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R516	1-249-493-11	CARBON	56K 5% 1/2W	R602	1-202-961-11	CEMENTED	1.8 5% 10W
R517	1-249-434-11	CARBON	27K 5% 1/4W	R603	1-202-933-61	FUSIBLE	0.1 10% 1/2W F
R518	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R607 Δ	1-202-961-11	CEMENTED	1.8 5% 10W
				R608	1-215-927-00	METAL OXIDE	47K 5% 3W F
				R611	1-249-415-11	CARBON	680 5% 1/4W

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KV-25M2/25T2

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R613	Δ 1-240-030-91	METAL	4.7M 5% 1/2W	< TUNER >			
R614	Δ 1-240-030-91	METAL	4.7M 5% 1/2W				
R615	1-249-422-11	CARBON	2.7K 5% 1/4W	TU101	8-598-331-02	TUNER (VSS BT-AC401)	
R616	1-216-397-11	METAL OXIDE	4.7 5% 3W F			(KV-25M2A/25T2A/25M2D/25T2D/25M2E/25T2E/ KV-25M2K/25T2K/25T2L/25T2R/25T2U)	
R617	1-249-405-11	CARBON	100 5% 1/4W F		1-693-310-11	TUNER (TELE4-002B)	(KV-25T2B)
R619	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	< CRYSTAL >			
R622	1-249-401-11	CARBON	47 5% 1/4W				
R627	1-249-389-11	CARBON	4.7 5% 1/4W F	X001	1-578-774-11	VIBRATOR, CRYSTAL	
R628	1-247-791-91	CARBON	22 5% 1/4W	X302	1-567-505-11	OSCILLATOR, CRYSTAL	
R652	1-216-397-11	METAL OXIDE	4.7 5% 3W F	X303	1-567-504-11	OSCILLATOR, CRYSTAL	
R653	1-216-397-11	METAL OXIDE	4.7 5% 3W F	*****			
R658	1-215-929-11	METAL OXIDE	100K 5% 3W F		*A-1638-111-A	C BOARD, COMPLETE	
R659	1-216-383-21	METAL OXIDE	0.33 5% 3W F			*****	
R661	1-247-843-11	CARBON	3.3K 5% 1/4W	< CAPACITOR >			
R662	1-215-929-11	METAL OXIDE	100K 5% 3W F				
R664	1-249-417-11	CARBON	1K 5% 1/4W	C701	1-102-114-00	CERAMIC 470PF	10% 50V
R665	1-215-877-11	METAL OXIDE	22K 5% 1W F	C702	1-102-115-00	CERAMIC 560PF	10% 50V
R667	1-215-927-00	METAL OXIDE	47K 5% 3W F	C703	1-102-116-00	CERAMIC 680PF	10% 50V
< VARIABLE RESISTOR >				C708	1-162-114-00	CERAMIC 0.0047MF	2KV
RV101	1-241-765-11	RES, ADJ, CARBON 22K	(KV-25T2B)	C710	1-107-652-11	ELECT 10MF	20% 250V
< RELAY >				C712	1-102-116-00	CERAMIC 680PF	10% 50V
RY601	Δ 1-755-245-11	RELAY, AC POWER		C714	1-126-967-11	ELECT 47MF	20% 16V
< SWITCH >				C717	1-102-114-00	CERAMIC 470PF	10% 50V
S001	1-571-532-21	SWITCH, TACTIL		C718	1-102-114-00	CERAMIC 470PF	10% 50V
S002	1-571-532-21	SWITCH, TACTIL		C719	1-102-114-00	CERAMIC 470PF	10% 50V
S003	1-571-532-21	SWITCH, TACTIL		C722	1-101-880-00	CERAMIC 47PF	5% 50V
S004	1-571-532-21	SWITCH, TACTIL		C723	1-101-880-00	CERAMIC 47PF	5% 50V
S005	1-571-532-21	SWITCH, TACTIL		C724	1-101-880-00	CERAMIC 47PF	5% 50V
S006	1-571-532-21	SWITCH, TACTIL		< CONNECTOR >			
S601	Δ 1-571-433-21	SWITCH, PUSH (AC POWER)		CN701	1-784-633-11	PIN, CONNECTOR 4P	
SW532	1-572-707-11	SWITCH, LEVER		CN702	1-695-915-11	TAB (CONTACT)	
< TRANSFORMER >				CN703	*1-564-509-11	PLUG, CONNECTOR 6P	
T511	Δ 1-453-264-11	TRANSFORMER ASSY, FLYBACK, (NX-1680/U2B4)		< DIODE >			
T531	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE		D702	8-719-991-33	DIODE 1SS133T-77	
T532	1-431-228-11	TRANSFORMER, POWER MODULATION		D703	8-719-991-33	DIODE 1SS133T-77	
T601	Δ 1-427-962-11	TRANSFORMER, LINE FILTER		D704	8-719-991-33	DIODE 1SS133T-77	
T602	1-431-732-11	TRANSFORMER, CONVERTER (SRT)		D705	8-719-991-33	DIODE 1SS133T-77	
T603	Δ 1-431-777-11	TRANSFORMER, CONVERTER		D706	8-719-991-33	DIODE 1SS133T-77	
< THERMISTOR >				D707	8-719-991-33	DIODE 1SS133T-77	
THP601	Δ 1-810-961-11	THERMISTOR, POSITIVE		D708	8-719-991-33	DIODE 1SS133T-77	
				D709	8-719-991-33	DIODE 1SS133T-77	
				D710	8-719-991-33	DIODE 1SS133T-77	
				D711	1-216-349-00	METAL OXIDE 1 5% 1W	F

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REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
D714	8-719-991-33	DIODE 1SS133T-77		R727	1-247-815-91	CARBON 220 5%	1/4W
D715	8-719-991-33	DIODE 1SS133T-77		R728	1-216-351-00	METAL OXIDE 1.5 5%	1W F
D716	8-719-991-33	DIODE 1SS133T-77		R729	1-247-815-91	CARBON 220 5%	1/4W
D717	8-719-991-33	DIODE 1SS133T-77		R730	1-247-791-91	CARBON 22 5%	1/4W
D718	8-719-991-33	DIODE 1SS133T-77		R731	1-247-843-11	CARBON 3.3K 5%	1/4W
D719	8-719-991-33	DIODE 1SS133T-77		R733	1-249-413-11	CARBON 470 5%	1/4W
< CRT SOCKET >				R734	1-247-807-31	CARBON 100 5%	1/4W
J701	Δ 1-526-990-21	SOCKET, CRT		R735	1-249-413-11	CARBON 470 5%	1/4W
< COIL >				R736	1-216-486-00	METAL OXIDE 8.2K 5%	3W F
L704	1-408-609-41	INDUCTOR 33UH		R737	1-247-891-00	CARBON 330K 5%	1/4W
< TRANSISTOR >				R739	1-249-417-11	CARBON 1K 5%	1/4W
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE		R740	1-249-413-11	CARBON 470 5%	1/4W
Q703	8-729-906-70	TRANSISTOR BF871-127		R741	1-202-549-00	SOLID 100 20%	1/2W
Q704	8-729-200-17	TRANSISTOR BF421L-AMMO		R744	1-249-421-11	CARBON 2.2K 5%	1/4W
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE		R745	1-249-421-11	CARBON 2.2K 5%	1/4W
Q706	8-729-906-70	TRANSISTOR BF871-127		R746	1-249-421-11	CARBON 2.2K 5%	1/4W
Q707	8-729-200-17	TRANSISTOR BF421L-AMMO		< VARIABLE RESISTOR >			
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE		RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
Q709	8-729-906-70	TRANSISTOR BF871-127		RV702	1-241-656-21	RES, ADJ, METAL FILM 110M	
Q710	8-729-200-17	TRANSISTOR BF421L-AMMO		*****			
< RESISTOR >							
R701	1-247-895-91	CARBON 470K 5%	1/4W				
R704	1-216-486-00	METAL OXIDE 8.2K 5%	3W F				
R705	1-260-103-11	CARBON 2.2K 5%	1/2W				
R706	1-247-815-91	CARBON 220 5%	1/4W				
R707	1-247-815-91	CARBON 220 5%	1/4W				
R708	1-247-791-91	CARBON 22 5%	1/4W				
R709	1-202-844-00	SOLID 330K 10%	1/2W				
R711	1-247-843-11	CARBON 3.3K 5%	1/4W				
R712	1-260-103-11	CARBON 2.2K 5%	1/2W				
R713	1-249-439-11	CARBON 68K 5%	1/4W				
R714	1-216-486-00	METAL OXIDE 8.2K 5%	3W F				
R715	1-249-417-11	CARBON 1K 5%	1/4W				
R716	1-247-815-91	CARBON 220 5%	1/4W				
R717	1-247-815-91	CARBON 220 5%	1/4W				
R718	1-202-814-11	SOLID 33K 10%	1/2W				
R719	1-247-791-91	CARBON 22 5%	1/4W				
R720	1-247-843-11	CARBON 3.3K 5%	1/4W				
R722	1-202-848-00	SOLID 680K 10%	1/2W				
R723	1-249-417-11	CARBON 1K 5%	1/4W				
R724	1-260-131-11	CARBON 470K 5%	1/2W				
R726	1-260-103-11	CARBON 2.2K 5%	1/2W				

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
		MISCELLANEOUS *****				REMOTE COMMANDER *****	
	Δ 1-416-465-21	COIL, DEMAGNETIC			1-475-765-11	COMMANDER, STANDARD TYPE (RM-883)	
	1-452-032-00	MAGNET, DISC; 10MM $\emptyset$					
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\emptyset$					
	Δ 1-453-264-11	TRANSFORMER ASSY, FLYBACK (NX-1680/U2B4)					
	1-504-698-11	SPEAKER (5X9CM)					
	Δ 1-251-317-31	CAP ASSY, HIGH-VOLTAGE					
	Δ 1-571-433-21	SWITCH, PUSH (AC POWER)					
	Δ 1-765-286-11	CORD POWER (KV-25M2A/25T2A/25T2B/25M2D/25T2D/ KV-25M2E/25T2E/25M2K/25T2K)					
	Δ 1-776-860-11	POWER CORD, FILTER (UK) (KV-25T2L/25T2U)					
	Δ 1-690-270-21	CORD, POWER (WITH CONNECTOR) (KV-25T2R)					
	8-598-331-02	TUNER (VSS BT-AC401) (KV-25M2A/25T2A/25M2D/25T2D/25M2E/25T2E/ KV-25M2K/25T2K/25T2L/25T2R/25T2U)					
	1-693-310-11	TUNER (TELE-002B) (KV-25T2B)					
	Δ 8-451-404-23	DEFLECTION YOKE (Y25GXABA)					
	Δ 8-733-254-05	PICTURE TUBE (SD-257) (M60LCS60X)					

		ACCESSORIES AND PACKAGING MATERIAL *****					
	4-204-210-41	MANUAL, INSTRUCTION (KV-25M2A/25T2A) (ITALIAN)					
	4-204-210-51	MANUAL, INSTRUCTION (KV-25T2B) (FRENCH/ITALIAN/GERMAN/DUTCH)					
	4-204-209-11	MANUAL, INSTRUCTION (KV-25M2D/25T2D) (ENGLISH/GERMAN/GREEK/DUTCH/TURKISH)					
	4-204-210-11	MANUAL, INSTRUCTION (KV-25M2D/25T2D) (GERMAN/ENGLISH)					
	4-204-210-71	MANUAL, INSTRUCTION (KV-25M2E/25T2E) (SPANISH)					
	4-204-210-81	MANUAL, INSTRUCTION (KV-25M2E/25T2E) (PORTUGUESE/FINNISH/DANISH/NORWEGIAN/SWEDISH)					
	4-204-210-91	MANUAL, INSTRUCTION (KV-25M2K/25T2K/25T2R) (HUNGARIAN/POLISH/CZECH/ENGLISH/ RUSSIAN/BULGARIAN)					
	4-204-209-61	MANUAL, INSTRUCTION (KV-25T2L/25T2U) (ENGLISH)					
	*4-042-476-01	BAG, PROTECTION					
	*4-204-218-01	INDIVIDUAL CARTON					
	*4-203-271-01	CUSHION (LOWER) (ASSY)					
	*4-203-268-01	CUSHION (UPPER) (ASSY)					

