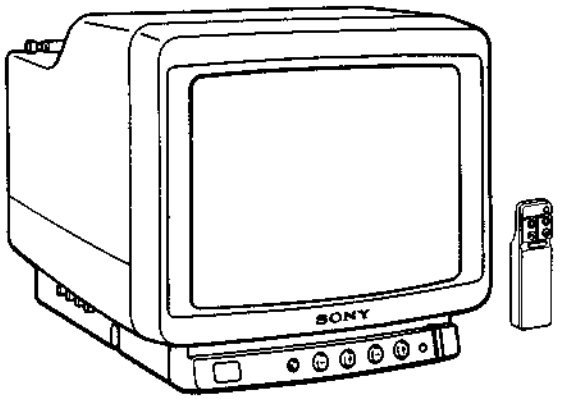
KV-8AD10
RM-759

SERVICE MANUAL

Canadian Mo

Chassis No. SCC-C40A-A



Note: The service manual for RM-759 has been issued separately.

MODELS OF THE SAME SERIES	
KV-8AD10	

SPECIFICATIONS

Television system	American TV standard
Channel coverage	VHF channels 2 – 13 UHF channels 14 – 69
Picture tube	Trinitron tube 8-inch picture measured diagonally 9-inch picture tube measured diagonally 70-degree deflection
Antenna	VHF/UHF telescopic antenna
Inputs	VIDEO IN VIDEO: phono jack 1 Vp-p, 75 ohms VIDEO IN AUDIO: phono jack – 5 dBs, 47 kohms EXT ANT/CAMCORDER IN: minijack 75 ohms
Output	HEADPHONES: minijack
Power requirements	120 V AC, 60 Hz 12 V DC
Power consumption	AC IN: 33 W max. DC IN: 26 W max.
Dimensions	Approx. 220 × 213 × 311 mm (w/h/d) (8¾ × 8½ × 12¼ inches)
Weight	Approx. 4.5 kg (8 lb 13 oz)
Accessories supplied	RM-759 Remote Commander with 2 size AA(R6) batteies (1) AC power cord (1) Antenna connector (1) Car battery cord (1)
Optional accessories	Connecting cord VMC710M/720M Car antenna VCA-3W,VCA-4

Design and specifications are subject to change without notice.

MICROFILM

TRINITRON® COLOR TV

SONY®

TABLE OF CONTENTS

WARNING !!

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

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION!!

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

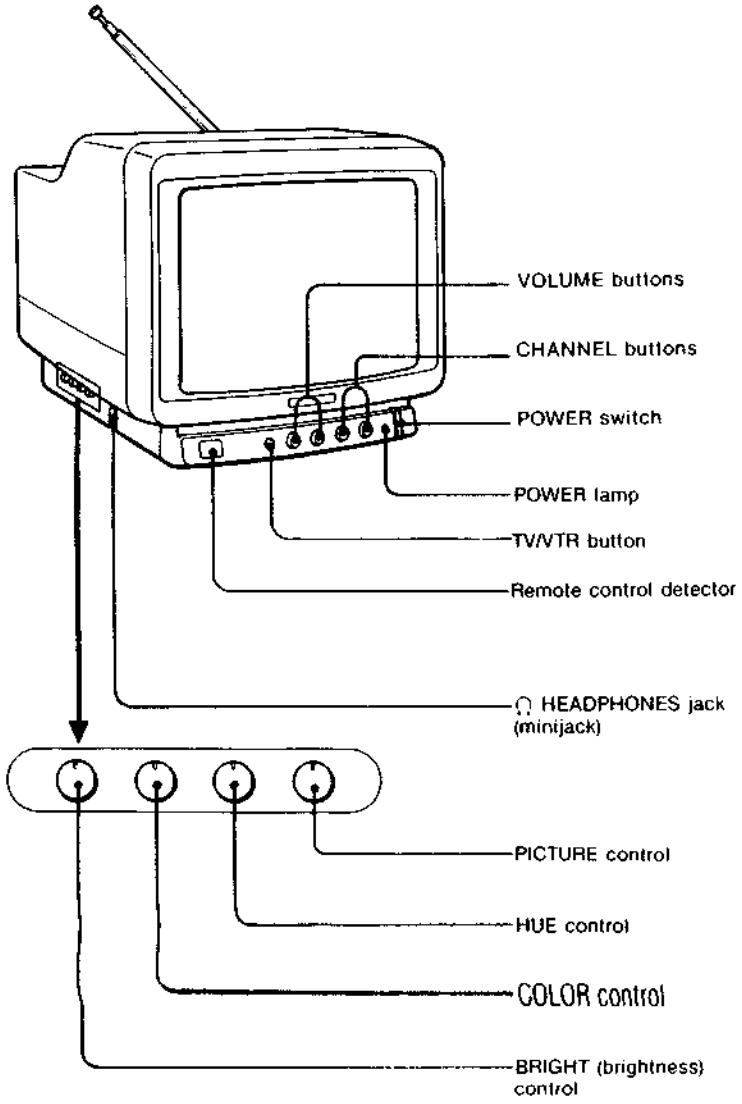
ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAMEE T PAR UNE MARQUE ⚠ SUR LES SCHÉMAS DE PRINCPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONTL E NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSAITS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

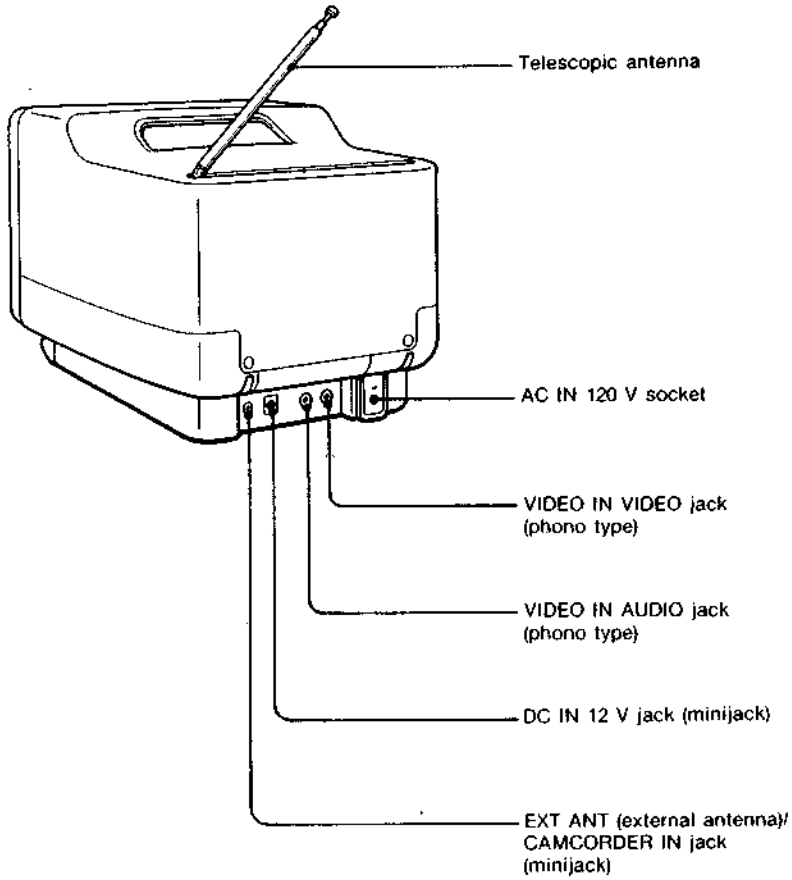
SECTION 1
GENERAL

1-1. NAME AND LOCATION OF CONTROLS

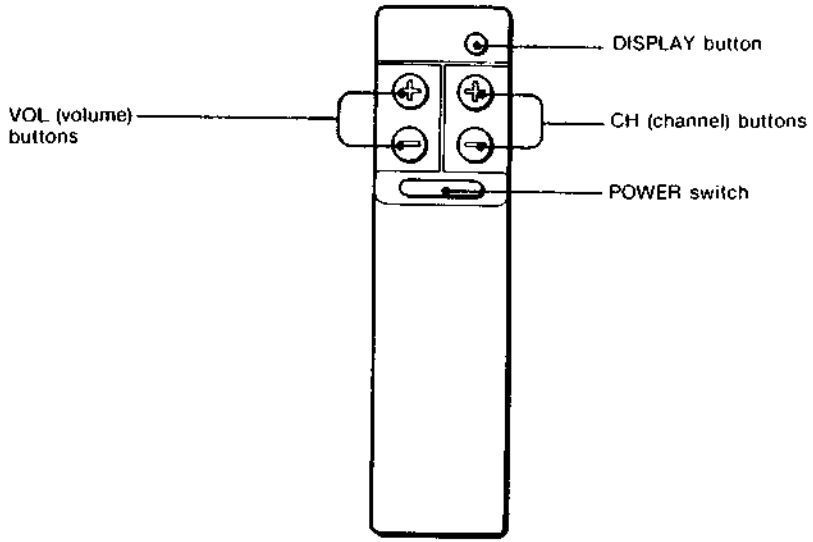
Front



Rear

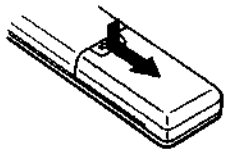


Remote Commander

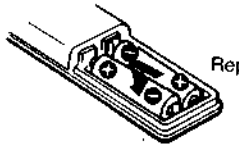


How to insert the batteries

1 Open the lid.



2 Insert two size AA (R6) batteries with correct polarity

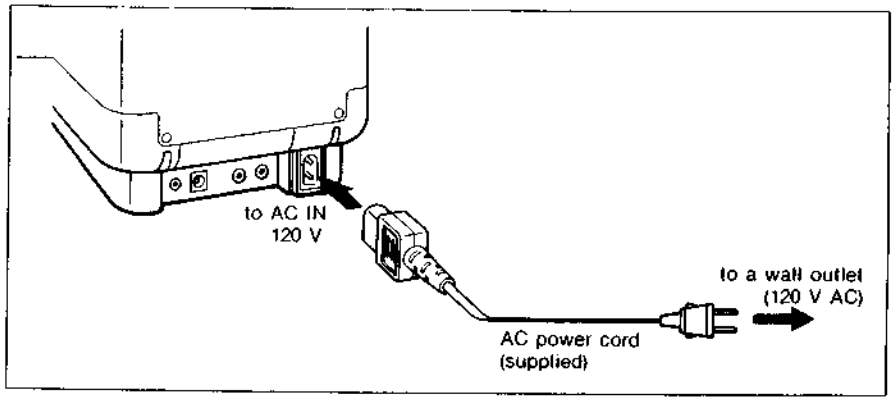


Notes

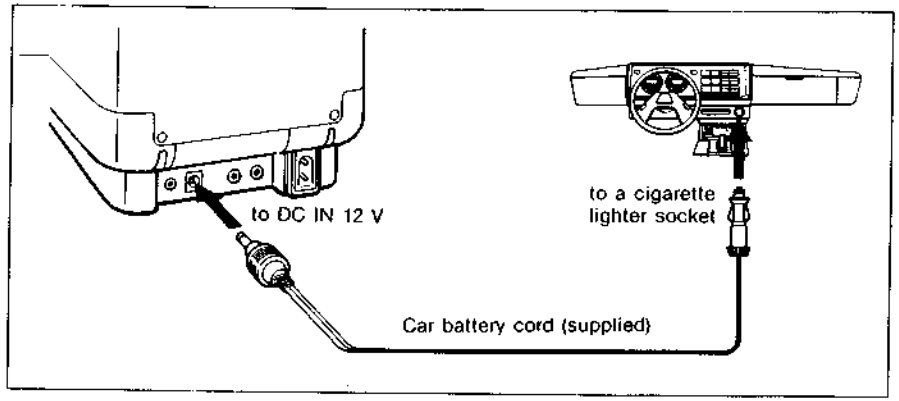
- In normal operation, batteries will last up to half a year. If the unit does not operate properly, the batteries might be exhausted. Replace all with new ones.
- To avoid damage from possible battery leakage, remove the batteries for extended unused periods.
- Be sure that there are no obstructions between the Commander and the TV.
- Operable range is limited.
- If a Remote Commander not recommended is used to operate this TV, or if the supplied Remote Commander is used to operate another TV, the TV may not operate properly.

1-2. FIRST CHOOSE YOUR POWER SOURCE

When using the house current

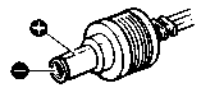


When using a car battery



Notes

- The unit is designed for negative ground 12 V DC operation only.
- Use only the supplied car battery cord manufactured by Sony. Polarity of the plugs of other manufacturers may be different



Polarity of the Sony plug

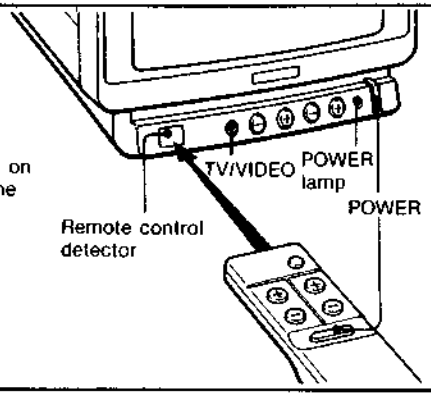
1-3. HOW TO WATCH THE TV

For each of the steps below, you can press either the buttons on the TV or the ones on the Remote Commander.

1 Turn on the TV.

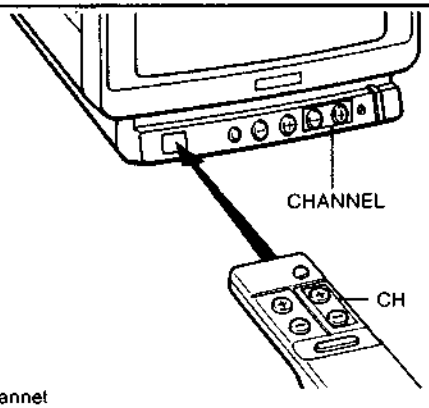
Press POWER.
The power lamp lights.

- If the "VIDEO" indication is displayed on the screen, press TV/VIDEO so that the indication disappears.

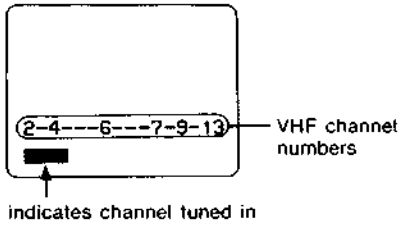


2 Select the desired channel.

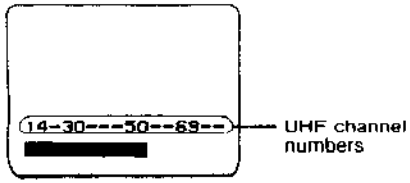
Each time CHANNEL (or CH) + or − is pressed, the adjacent channel is automatically tuned in.



On-screen display while tuning

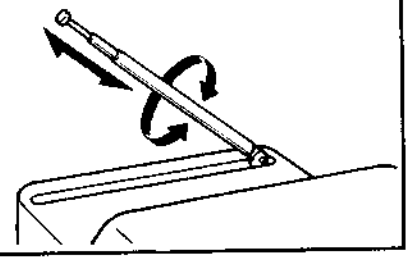


When no additional channel is received in the VHF band, the on-screen display *changes*.



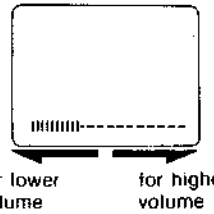
3 Adjust the antenna.

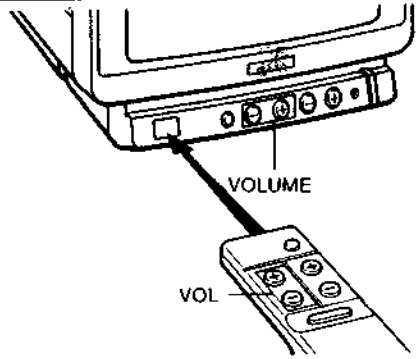
Pull out the telescopic antenna and adjust its length and direction until the picture is clearest.



4 Adjust the volume.

For higher volume, press "+".
For lower volume, press "−".

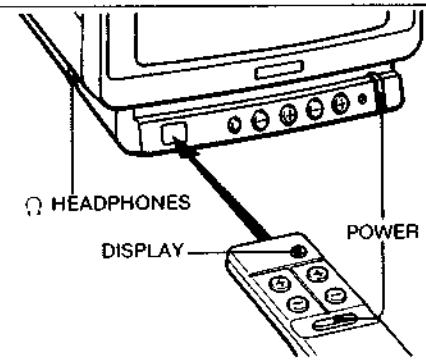




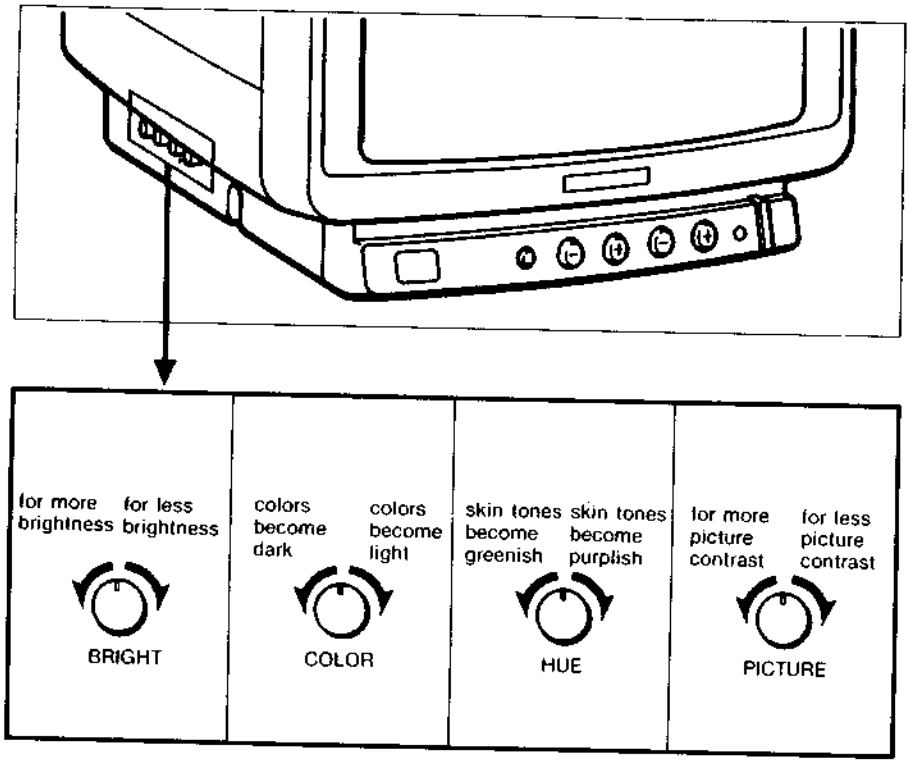
To turn off the TV
Press POWER again.

To make the channel numbers and a bar appear on the screen for 3 seconds
Press DISPLAY. If the unit is in video mode, the "VIDEO" indication will appear.

To listen with a pair of headphones
Connect the optional headphones to the ∩ HEADPHONES jack. The sound is monaural.



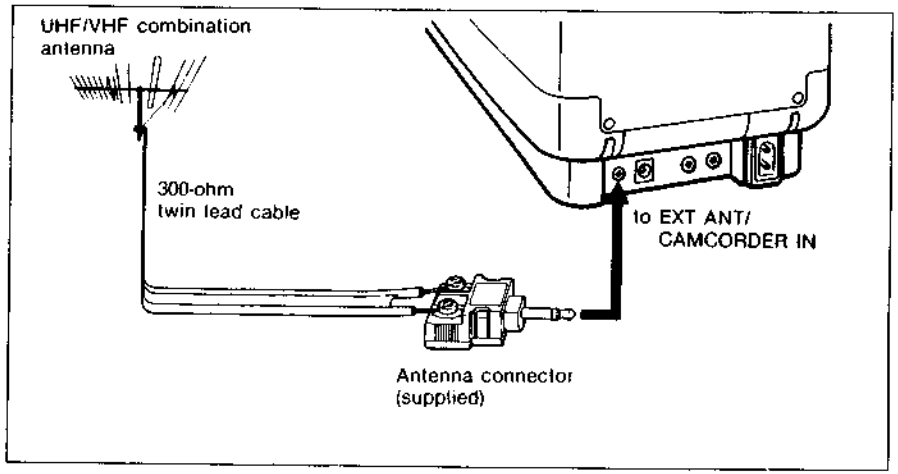
How to adjust the picture



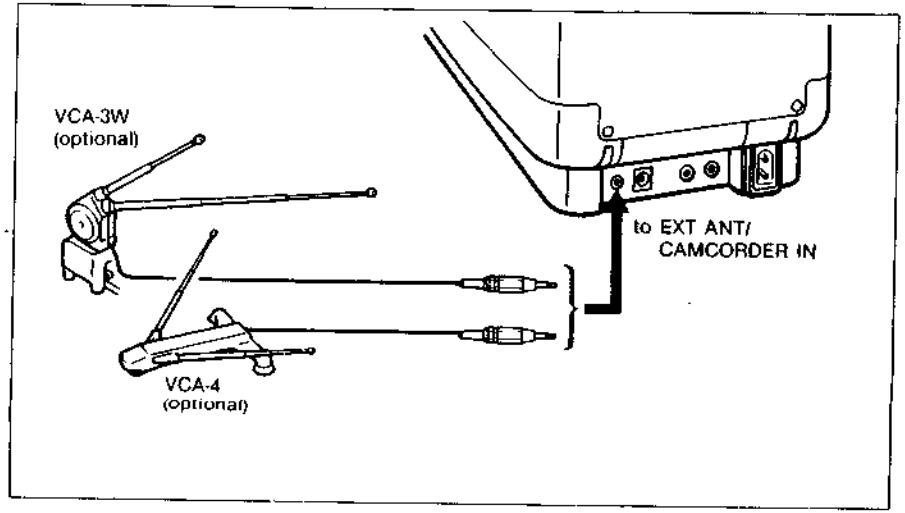
1-4. IF YOU WANT TO CONNECT AN EXTERNAL ANTENNA

When connecting an outdoor antenna

If you cannot obtain satisfactory reception with the telescopic antenna, use an external antenna.

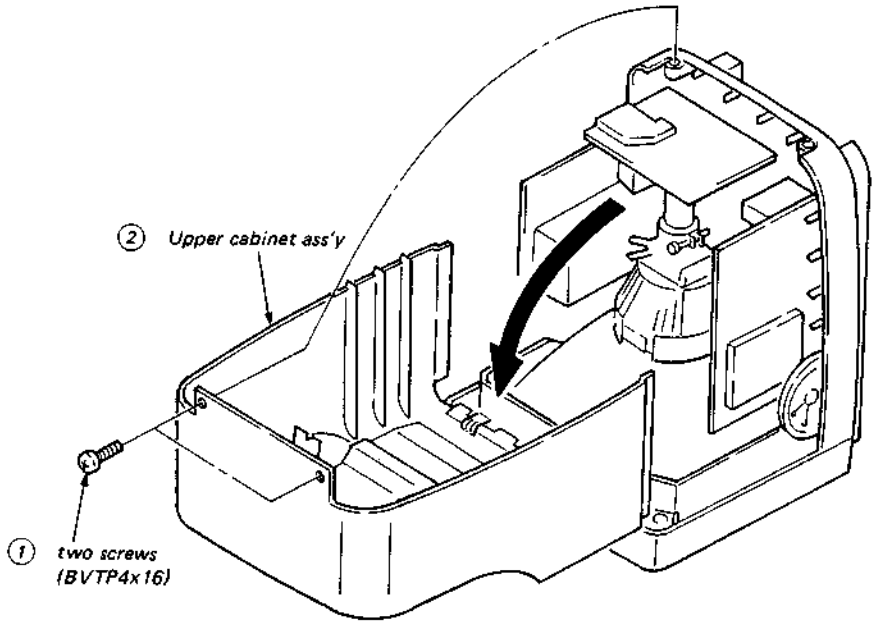


When connecting a car antenna

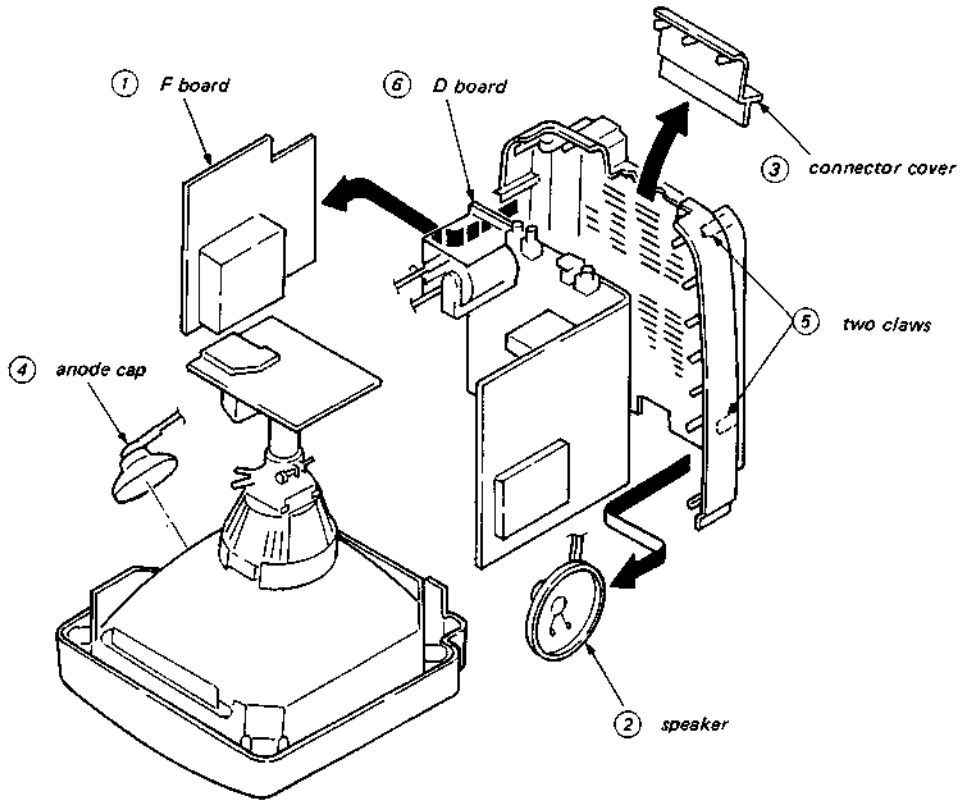


SECTION 2
DISASSEMBLY

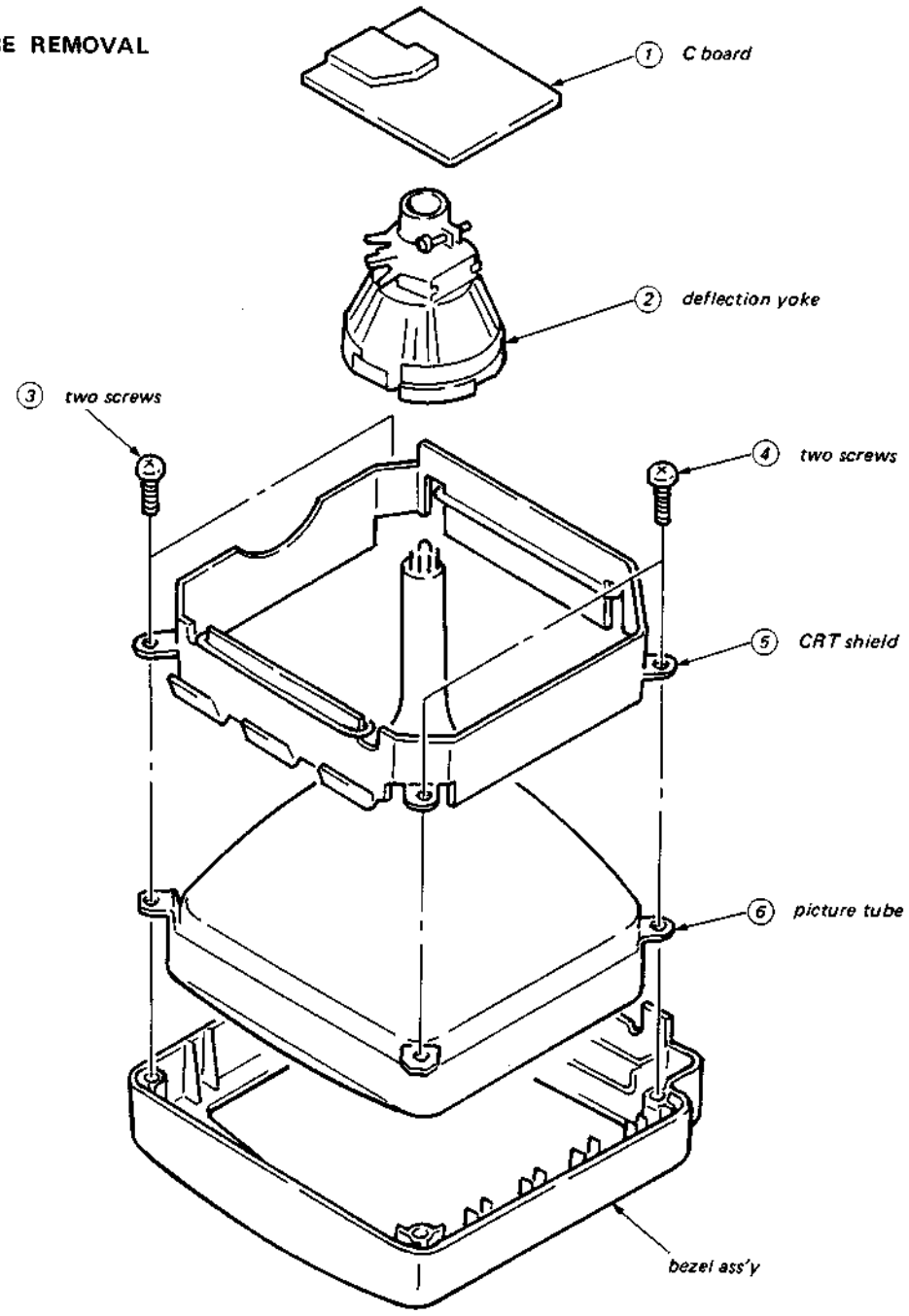
2-1. UPPER CABINET ASS'Y REMOVAL



2-2. D BOARD REMOVAL

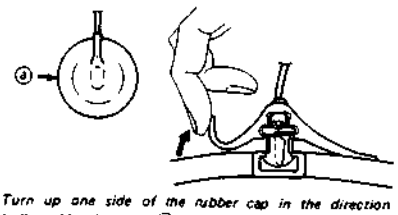


2-3. PICTURE TUBE REMOVAL

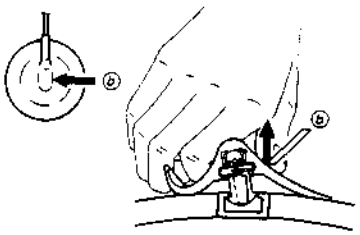


• **REMOVAL OF ANODE CAP**

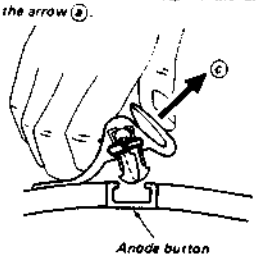
Removing Procedures



(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 up it in the direction of the arrow (c).

SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted :
PICTURE control ..... click position
BRIGHTNESS control ..... click position

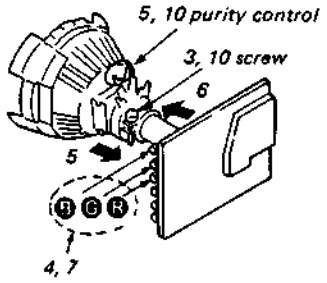
Perform the adjustments in order as follows :
3-1. Beam Landing
3-2. Convergence
3-3. Focus
3-4. White Balance

Note : Test Equipment Required.
1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

3-1. BEAM LANDING

Preparation :
- Feed in the white pattern.
- Before starting, degauss the entire screen.

1. Turn on set power supply and receive an all-white signal.
2. Evenly degauss the entire screen.
3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig. 3-1.
4. Set BKG VR Ⓡ to maximum and set Ⓑ and Ⓖ to minimum.
5. Move the deflection yoke back, and adjust the purity control so that Ⓡ is in the center and Ⓖ and Ⓑ are at the sides, evenly. (Fig. 3-2.)
6. Move the deflection yoke forward so that the entire screen is red.
   * If the deflection yoke is pushed all the way to the CRT then moved slightly forward, landing adjustment is easier.
7. Substitute Ⓖ, then Ⓑ for Ⓡ in step 4 and check landing.
8. Rotate Ⓡ, Ⓖ and Ⓑ once each and check landing.
9. When landing is not right, adjust the purity control and use magnets as shown in Fig. 3-3 then repeat steps 7 and 8.
10. When a magnet is used, be sure to perform step 2, and tighten deflection yoke mounting screw loosely.



Note; The numbers (3–10) show above steps.

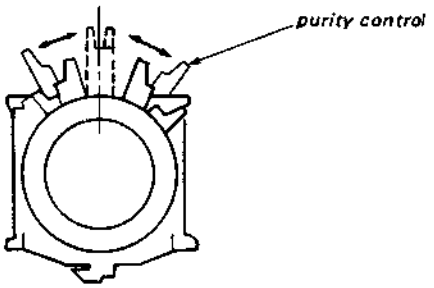


Fig. 3-1.

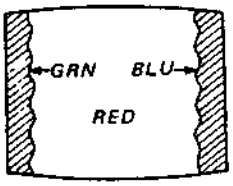


Fig. 3-2.

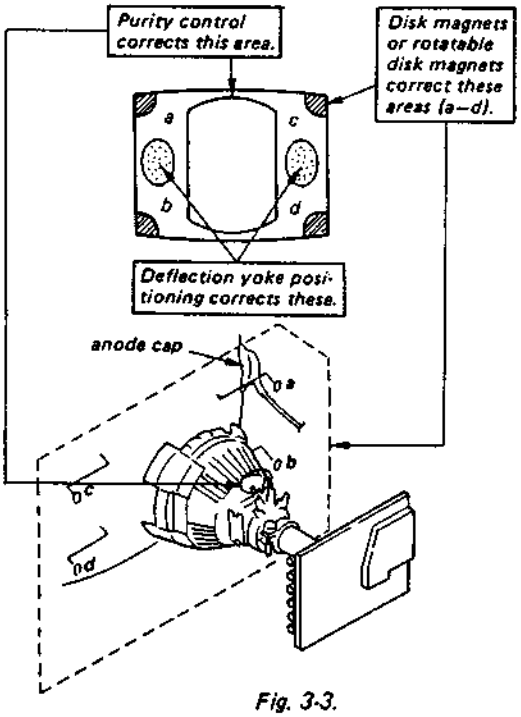


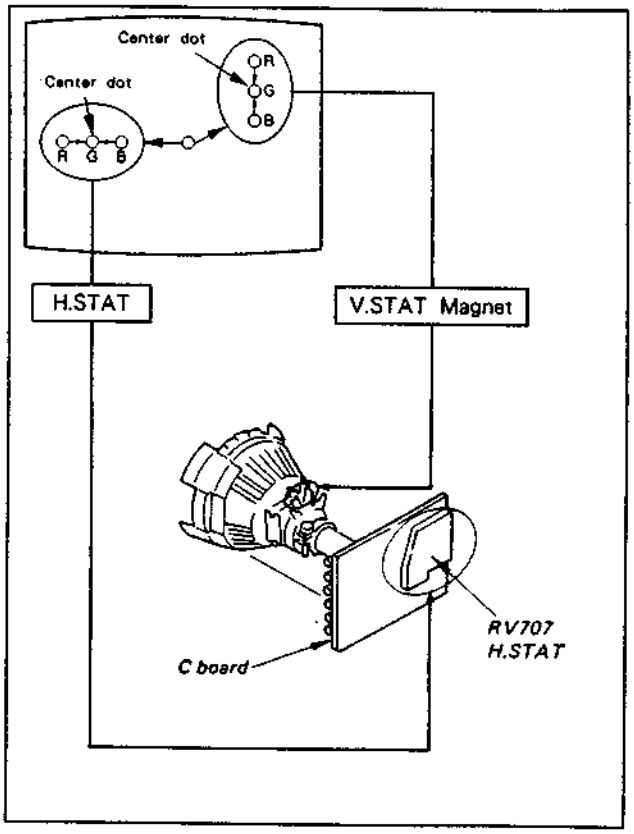
Fig. 3-3.

3-2. CONVERGENCE

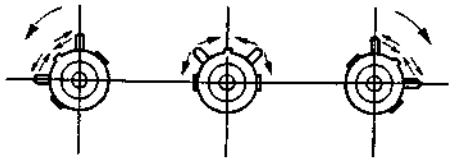
Preparation :

- Before starting, perform FOCUS, H.SIZE, V.SIZE and V.LIN adjustments.
- Turn BRIGHTNESS control to fully counterclockwise and PICTURE control to click position.
- Feed in the dot pattern.

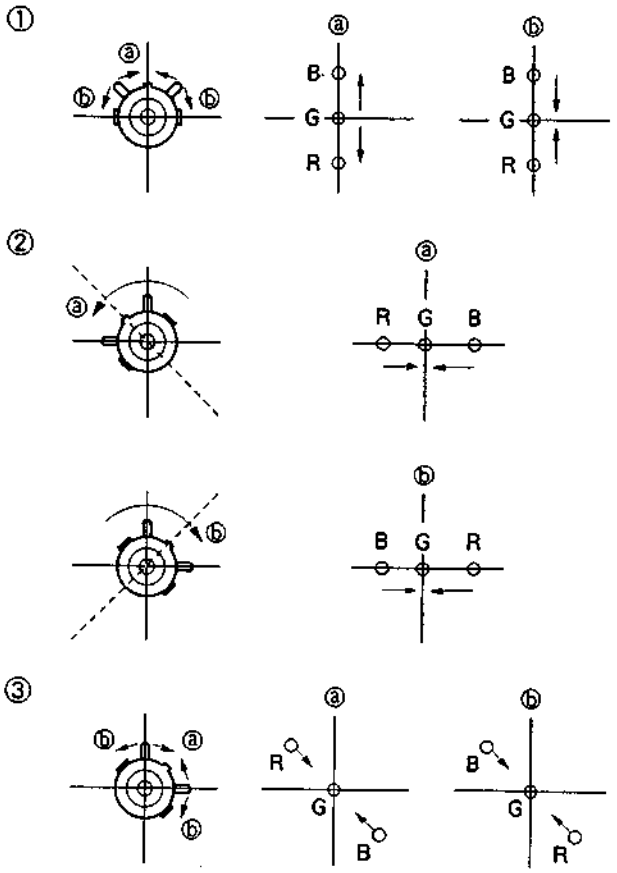
(1) Horizontal and Vertical Static Convergence



1. Adjust H.STAT VR to coincide red, green and blue dots on the center of screen (Horizontal movement)
2. Adjust V.STAT magnet to coincide red, green and blue dots on the center of screen (Vertical movement)
3. If the red, green and blue dots do not coincide on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below.(In this case, H.STAT VR and V.STAT magnet effect each other.)
   - Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in th direction of arrow ⓐ and ⓑ, Red, Green and Blu dots move as shown below.

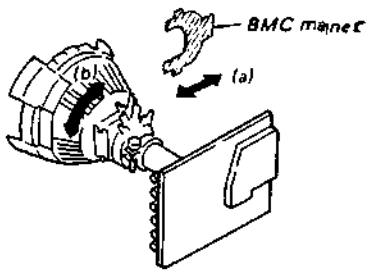


If blue dot does not coincide with red and green dots perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

Rotate BMC magnet (b) to correct insufficient V static convergence.

In either case, repeat Beam Landing Adjustment.

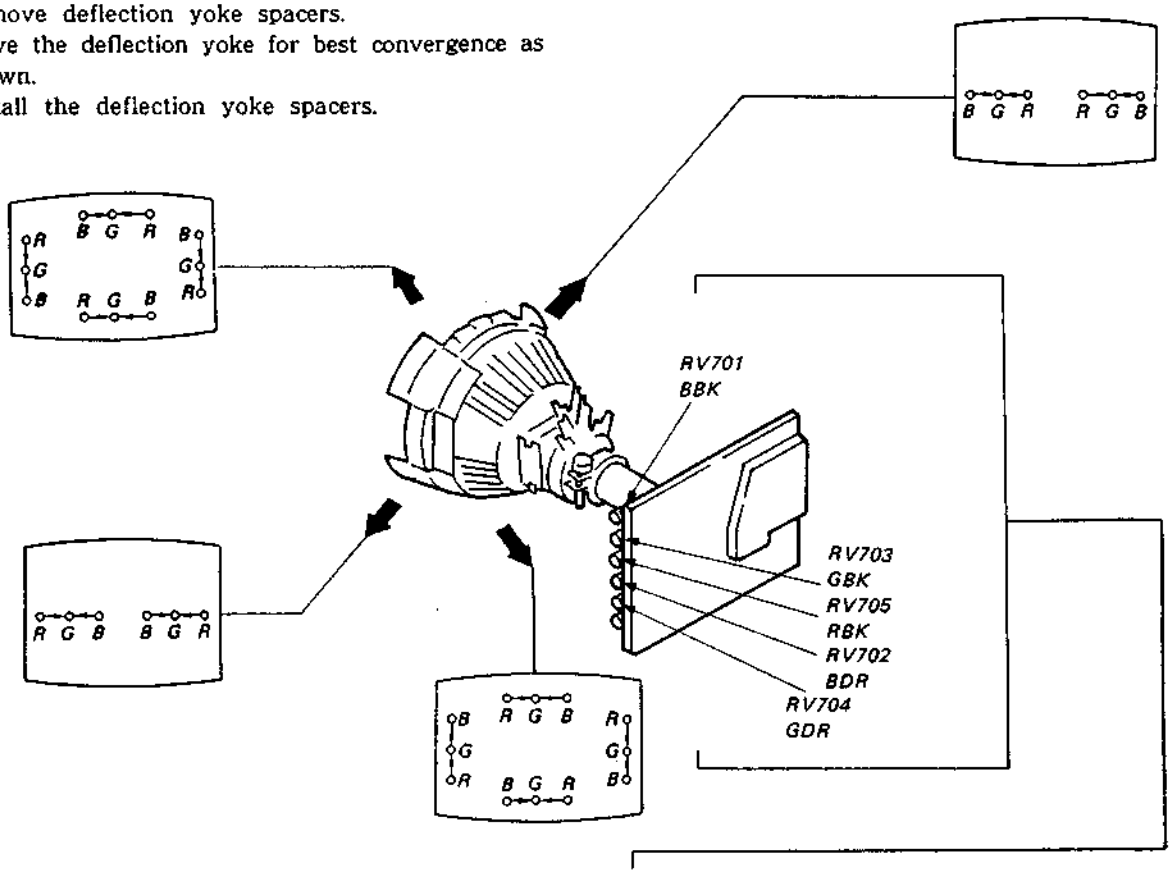


(2) Dynamic Convergence Adjustment

Preparation :

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

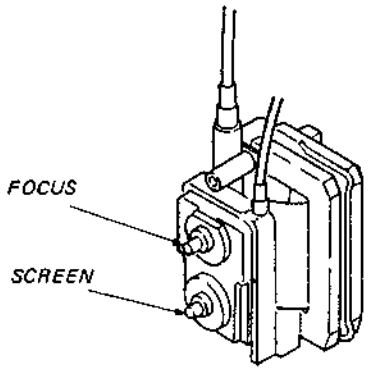
1. Remove deflection yoke spacers.
2. Move the deflection yoke for best convergence as shown.
3. Install the deflection yoke spacers.



3-3. FOCUS

(1) Input monoscope signal.
PICTURE control ·····80 %
BRIGHT control ·····50 %

(2) Adjust FOCUS control for a best picture at the center and both sides of the screen.



3-4. WHITE BALANCE

- Input dot signal from pattern generator.
- PICTURE control ····· click position
  BRIGHTNESS control ···· click position

[SCREEN (G2)]

1. Adjust BKG VRs (RV701, RV703, and RV705) so that voltages on the red, green and blue cathodes are 100Vdc with an oscilloscope as shown in Fig.1.

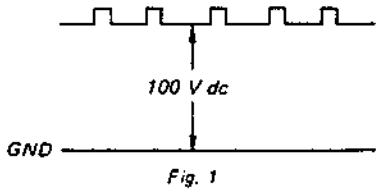


Fig. 1

2. Observe the screen and adjust Screen control to obtain the faintly visible background of dot signal. Note the color that first becomes visible by turning SCREEN control.
   Do not turn a BKG control for this color.

[WHITE BALANCE]

1. Input entirely white signal from pattern generator.
2. Set the PICTURE control to obtain the faintly visible raster on the screen.
3. Observe the screen and adjust the other two BKG VRs for best white balance.
4. Set the PICTURE control at maximum.
5. Observe the screen and adjust the DRIVE VRs (RV702, RV704) for best white balance.
6. Repeat steps 2 through 5 several times.

SECTION 4
SAFETY RELATED ADJUSTMENTS

⊠ R821, R822 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

When replacing the following components (marked with ◪ on the schematic diagram), always perform the adjustment as follows :

IC201, D501, D806, C506, C510, C810, R505, R506, R508, R806, R807, R808, R821, R822, T802 (FBT)

(1) Preparation before confirmation

1. Turn the POWER switch ON, and receive entirely color-bar signals and set the PICTURE and BRIGHTNESS controls to center click.
2. Confirm that the voltage of TP86 is more than 30.5V when the set is operating normally with 120V AC supply.

(2) Hold-down operation confirmation

1. Turn the POWER switch ON, and receive entirely white signals and set the PICTURE and BRIGHTNESS controls to center click.
2. Apply DC voltage of over 42.4V gradually to TP86 via 1T40 from the DC stavilized power source. Confirm that the minimum voltage is less than 42.5V DC whereby the raster disappears during the hold-down circuit operation.

NOTE : When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

(3) Hold-down readjustment

When step (2) is not satisfied, readjustment should be performed by altering the resistance value of R821, 822 (a component marked with ⊠).

(4) Confirmation of hold-down erroneous operation

1. Turn the POWER switch ON, and receive dot signals and set the PICTURE and BRIGHTNESS controls to minimum.
2. Confirm that the hold-down circuit does not operate by turning the POWER switch ON and OFF repeatedly several times.

NOTE : If the hold-down circuit starts operating in the above case, switch OFF the POWER of the set immediately.

3. Turn the POWER switch ON, and receive dot signals and entirely white signals, and set the PICTURE and BRIGHTNESS controls to maximum.
4. Confirm that the hold-down circuit does not operate by performing switchover of the channels of the dot signals and entirely white signals several times.

NOTE : If the hold-down circuit starts operating in the above case, switch OFF the POWER of the set immediately.

5. If the above-mentioned steps 1 to 4 are not satisfied reconfirm steps (2) to (4) by altering the R821, 822 smaller resistance value (a component marked with ⊠).

CONFIRMATION WHEN REPLACING T802 (FLY-BACK TRANSFORMER)

The following adjustments should always be performed with reference to whether an X-ray radiation control circuit is connected or not, when replacing H.V.R.(High-Voltage Registor)

*This check is to be performed when H.V.R. only is replaced, and has no relation to the hold-down circuit readjustment for replacement of parts marked ◪.

(1) Connection confirmation

1. Turn the POWER switch ON, and receive entirely white signals and set the PICTURE and BRIGHTNESS controls to maximum.
2. When the set is operating normally with 120V AC supply, confirm that the voltage of TP86 is over 32.0 ± 1.5V DC.

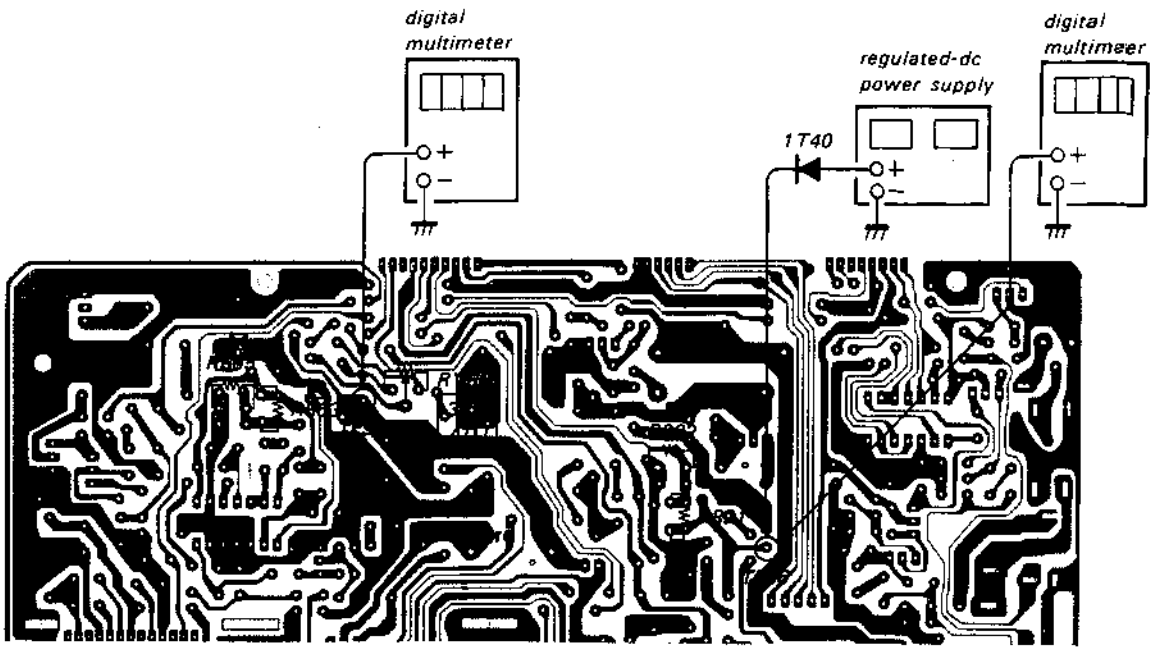
+B MAX VOLTAGE CONFIRMATION (⊠ R663, R665)

When replacing the following components (marked with ◪ on the schematic diagram), perform the adjustment as follows :

IC651, Q651, D651, R655, R658, R659, R660, R662, R663, R664, R665, R667, L651, RV601

1. Supply 130$^{+3}_{0}$ V AC to with variable auto-transformer.
2. Receive color-bar signals.
3. Set the PICTURE and BRIGHTNESS controls to center click.
4. Adjust RV601 (30V ADJ) so as to become maximun.
5. Confirm the voltage of TP91 is less than 33.0V DC.

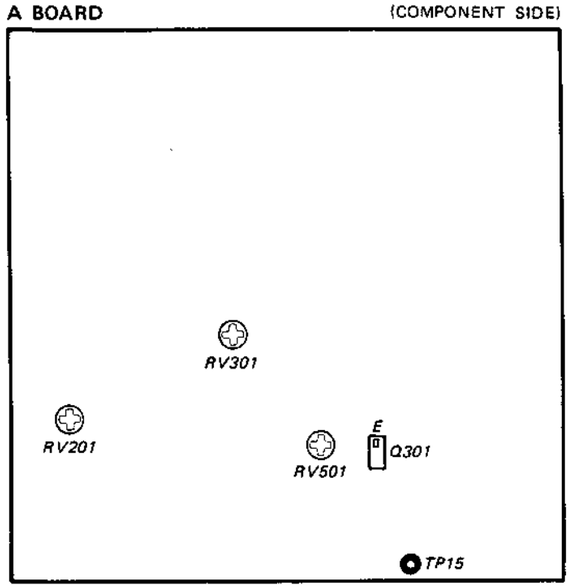
*Use a digital multimeter whose input impedance over 100M Ω when confirming the voltage of the protecter terminal of H.V.R.


digital
multimeter
regulated-dc
power supply
digital
multimeer
1T40
+
−
+
−
+
−

SECTION 5
CIRCUIT ADJUSTMENT

5-1. A BOARD ADJUSTMENTS

A BOARD (COMPONENT SIDE)

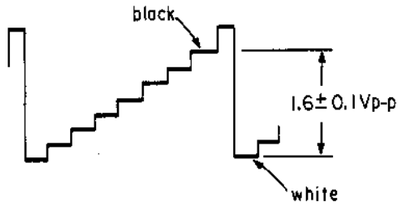


TUNER AGC ADJUSTMENT (RV201)

1. Receive a color-bar signal.
2. Connect the digital multimeter across TP15 and ground.
3. Adjust RV201 so that voltage is 6.0 ± 0.3V DC.

SUB CONTRAST ADJUSTMENT (RV301)

1. Receive a color-bar signal.
2. PICTURE·····center click
3. Observe the Q301 emitter waveform on the oscilloscope.
4. Adjust RV301 until the black and white signal level becomes 1.6 ± 0.1Vp-p.

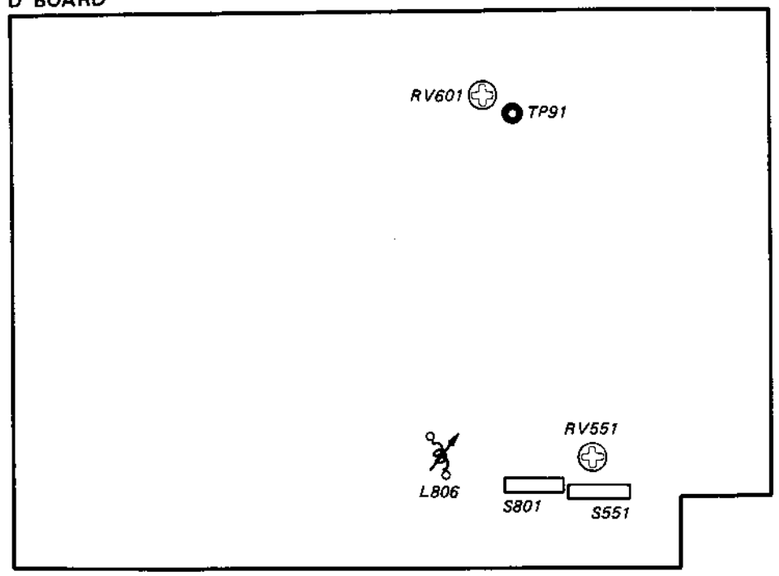


H.SIFT ADJUSTMENT (RV501)

1. Set the V.CENT (S551) and H.CENT (S801) on the D board to the best position.
2. Set the RV501 to center.
3. Adjust S801 for best picture.
4. If it is impossible with S801, adjust RV501.

5-2. D BOARD ADJUSTMETNS

D BOARD (COMPONENT SIDE)



V.SIZE ADJUSTMENT (RV551)

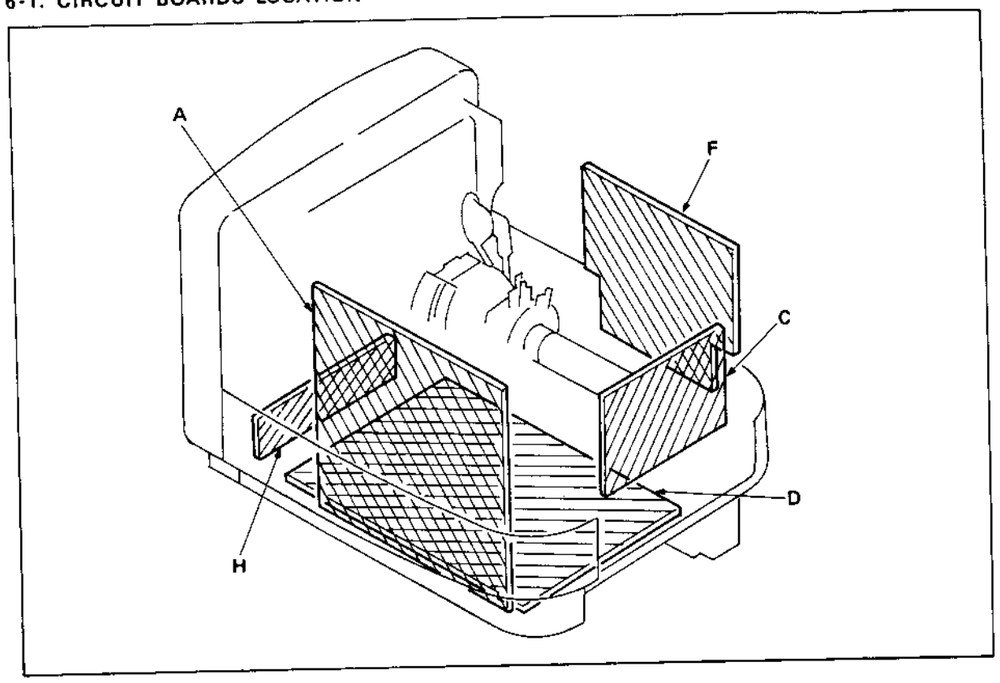
1. Receive a cross-hatch signal.
2. PICTURE·····center click
   BRIGHT·····center
3. Adjust RV551 for best picture.

H.SIZE ADJUSTMENT (L806)

1. Receive a cross-hatch signal.
2. PICTURE·····center click
   BRIGHT·····center
3. Adjust L806 for best picture.

SECTION 6
DIAGRAMS

6-1. CIRCUIT BOARDS LOCATION



6-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAM

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

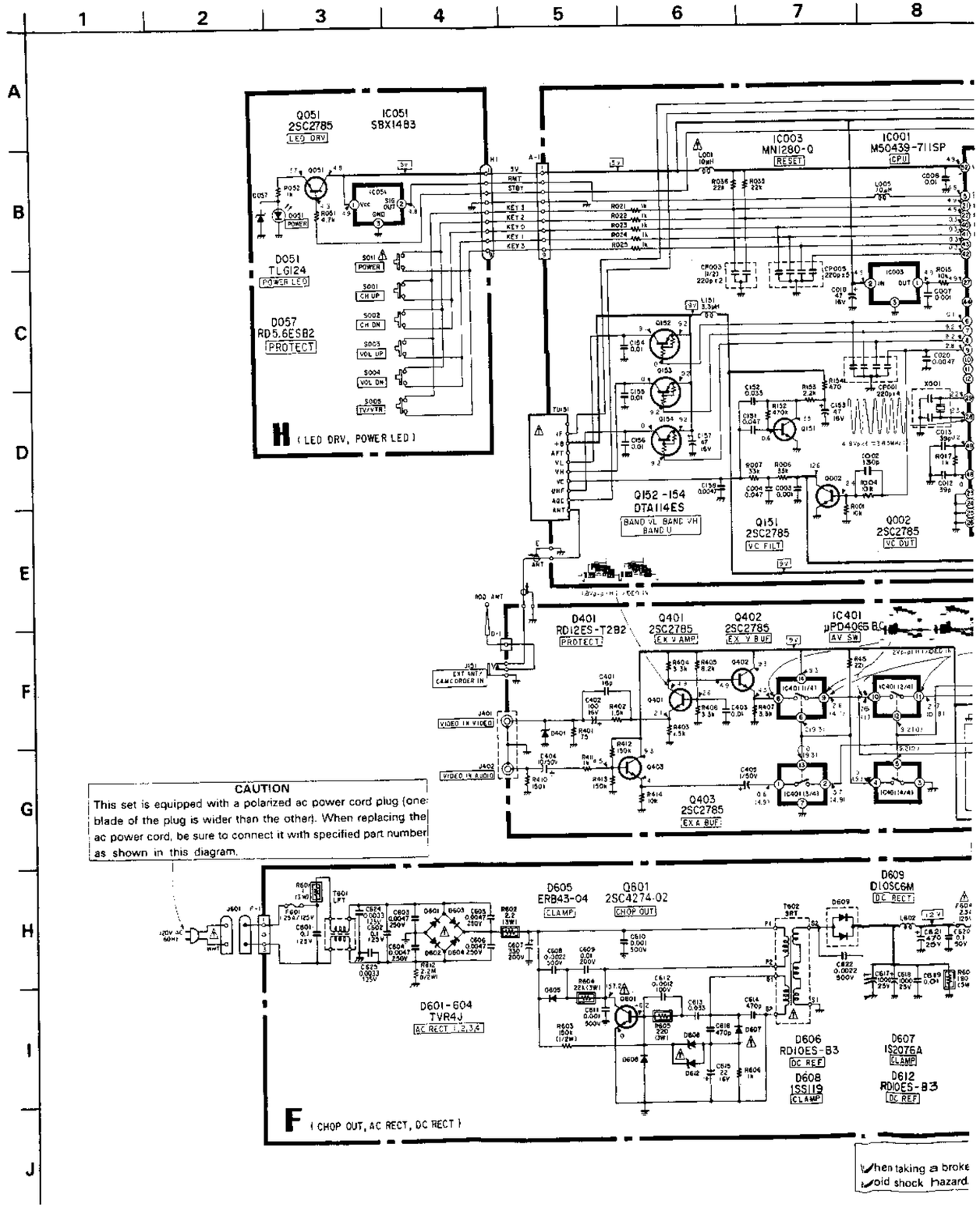
Note:

- All capacitors are in μF unless otherwise noted. p:μμF 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
  kΩ = 1000Ω, MΩ = 1000kΩ
- All resistors are in ohms, 1/4W unless otherwise noted.
  kΩ : 1000Ω, MΩ : 1000kΩ.
- ▭ : nonflamable resistor.
- △ : internal component.
- ▭ : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by ▣ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪ mark the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ▣ and repeat the adjustment until the specified value is achieved. (Refer to R821, R822, R663 and R665 adjustment on page 14, 15.)
  When replacing the part in below table, be sure to perform the related adjustment.

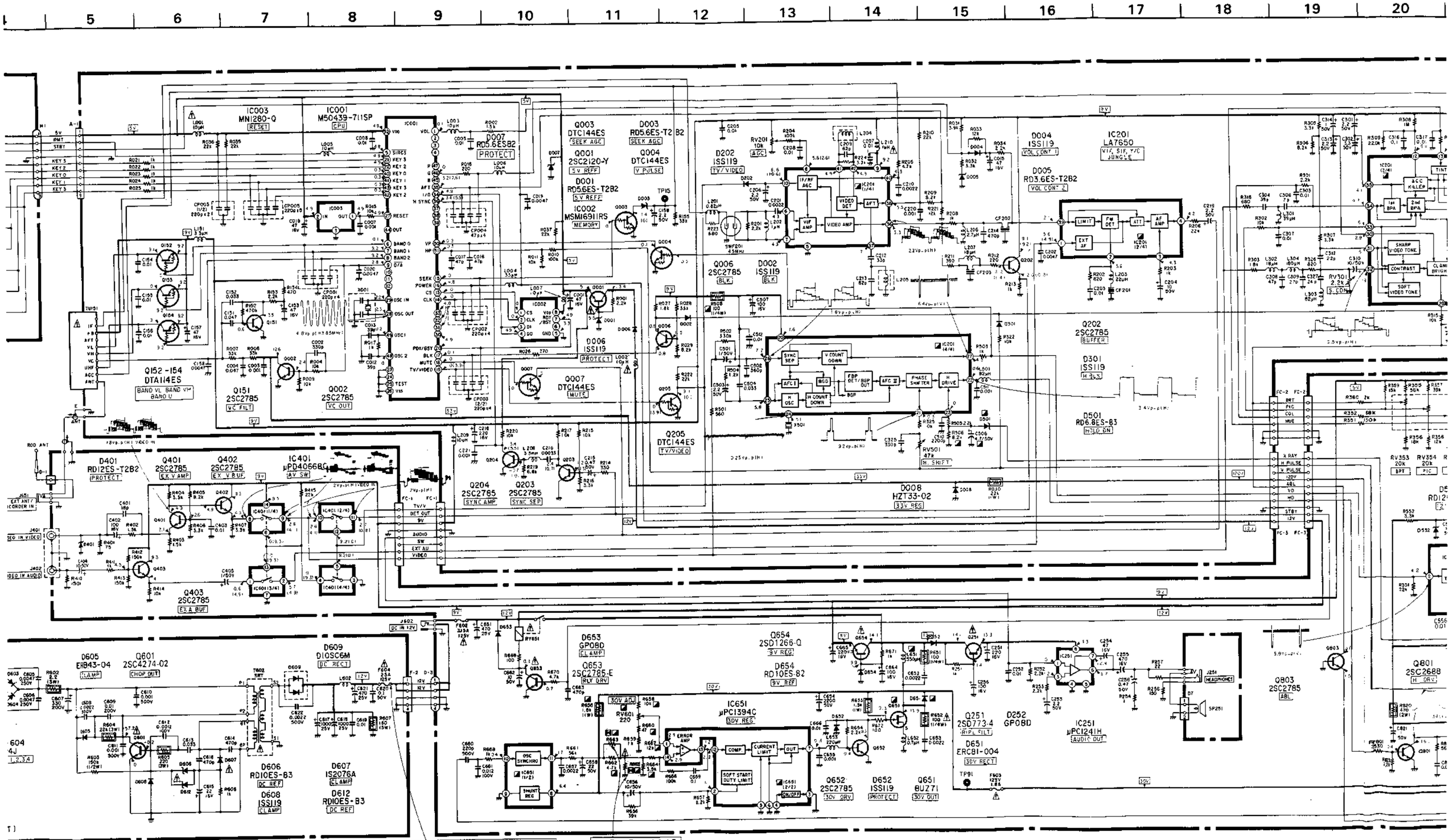
Part replaced (◪)	Adjustment (▣)
IC201, D501, D806, C506, C510, C810, R505, R506, R508, R806, R807, R808, R821, R822, T802 (FBT)	R821, R822 (HV HOLD DOWN)
IC651, Q651, D651, R655, R658, R659, R660, R662, R663, R664, R665, R667, L651, RV601	R663, R665 (+B MAX)

- Readings are taken with a color-bar signal input.
- no mark : VHF IN
- ( ) : VIDEO IN
- Readings are taken with a 10MΩ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- — : Can not be measured.
- Circled numbers are waveform references.
- ——— : B + bus.
- - - - : B − bus.
- ——— : signal path.
- ▭ : adjustment for repair or semiconductor function.

KV-8AD10
RM-759

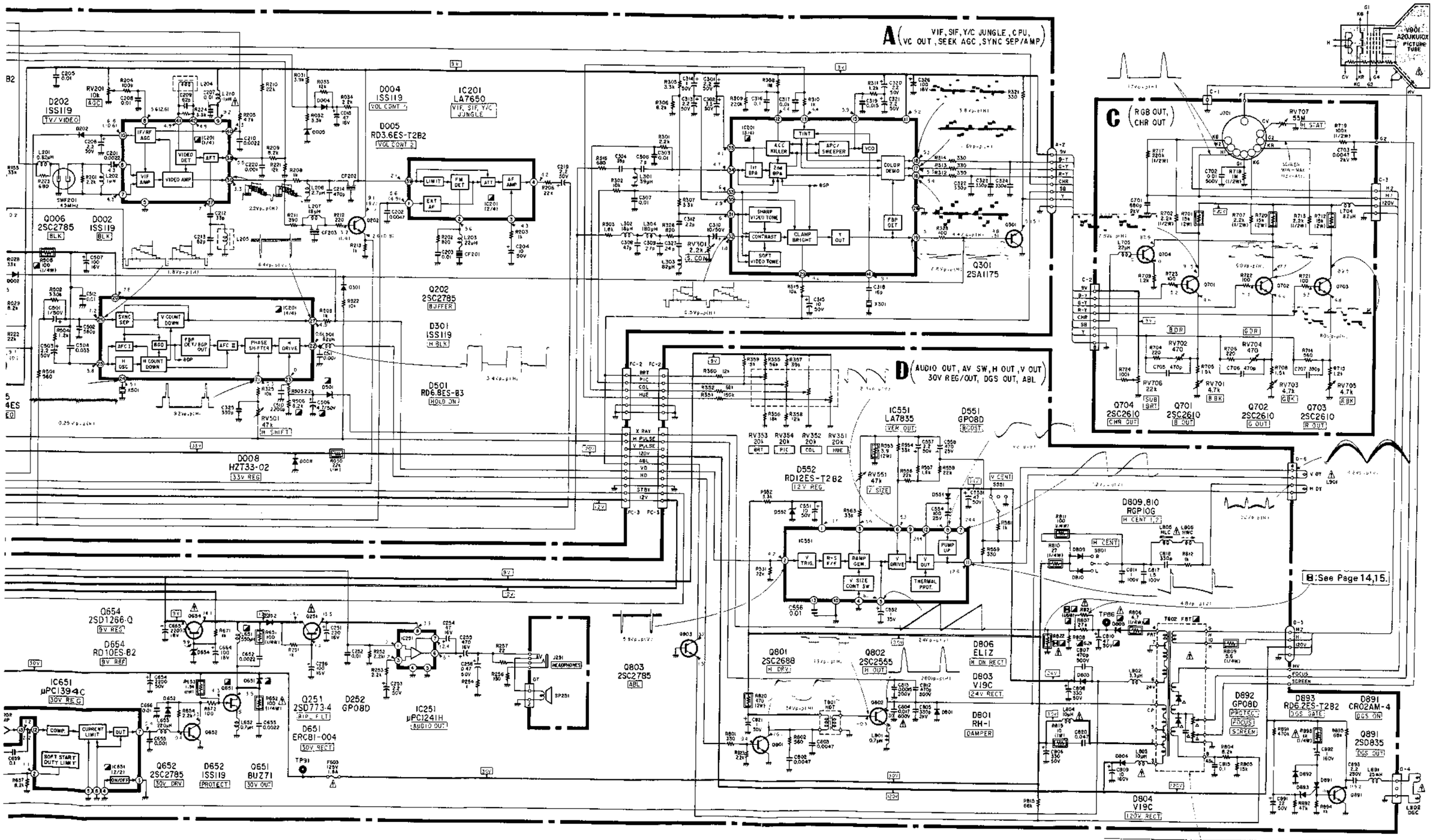


KV-8AD10
RM-759



:See Page 14,15.

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27



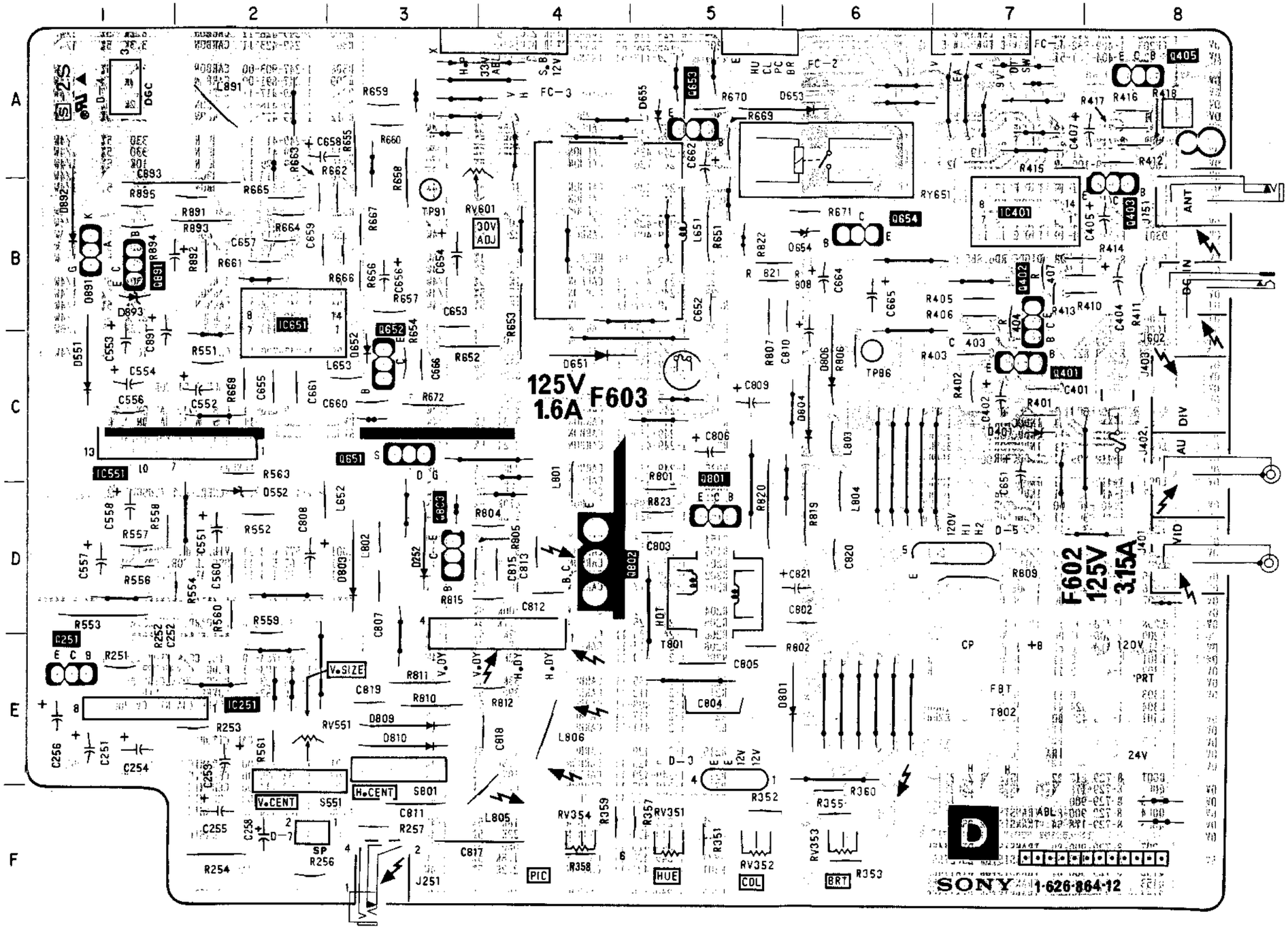
CAUTION

When replacing T802, be sure to check the point voltage value (TP86). Refer to the Safety Adjustment Section.

D [AUDIO OUT, AV SW, H OUT, V OUT, 30V REG/OUT, DGS OUT, ABL]

– Conductor Side –

— D Board —

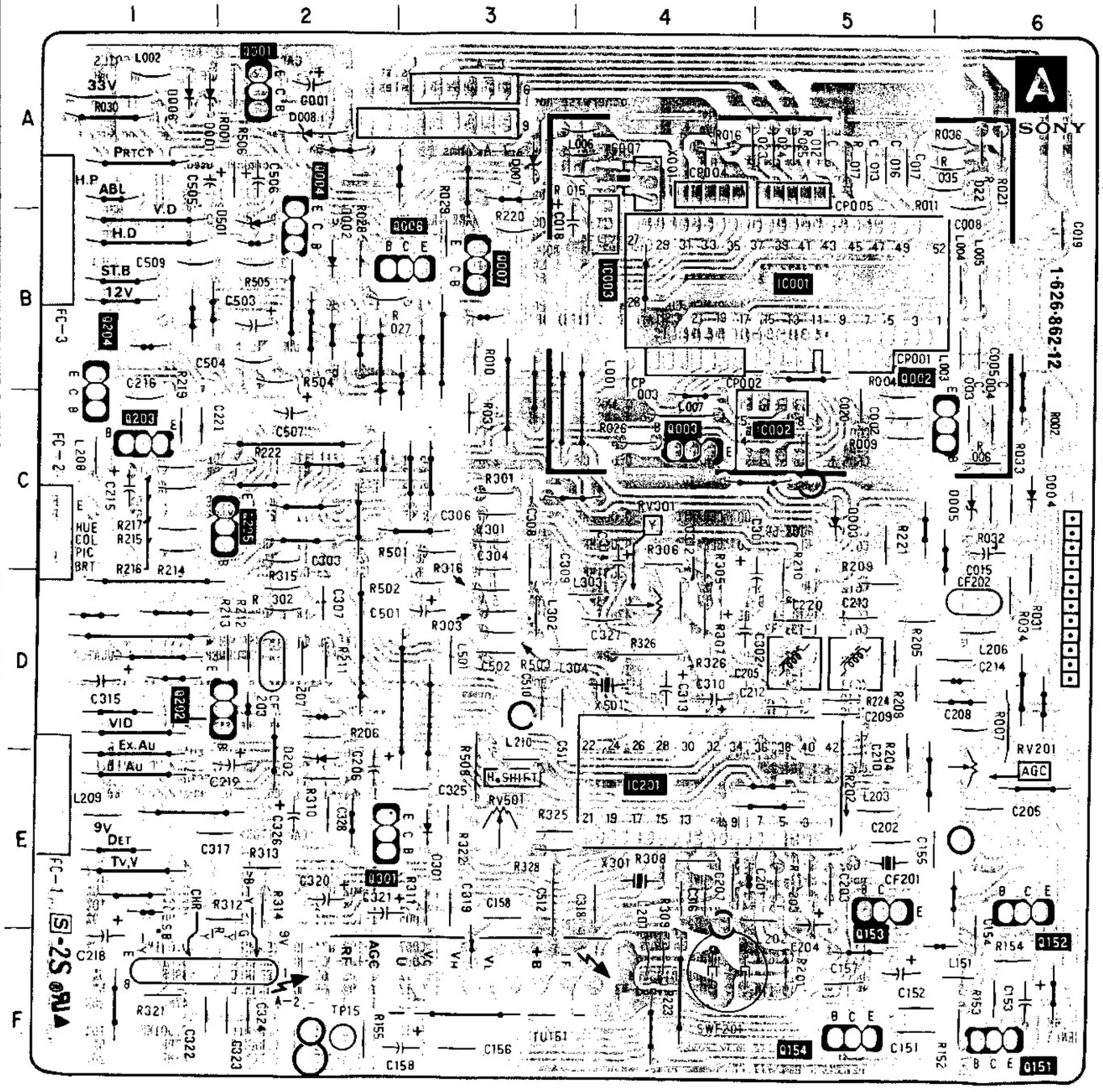


D Board

DIODE	
D251	E-1
D401	C-7
D551	C-1
D552	D-2
D651	C-4
D652	C-3
D653	A-6
D654	B-6
D801	E-6
D803	D-3
D804	C-6
D806	C-6
D807	C-5
D809	E-3
D810	E-3
D891	B-1
D892	B-1
D893	B-2
IC	
IC251	E-1
IC401	B-7
IC551	C-2
IC651	C-2
TRANSISTOR	
Q251	E-1
Q401	C-7
Q402	B-7
Q403	B-8
Q405	A-8
Q651	C-3
Q652	C-3
Q653	A-5
Q654	B-6
Q801	D-5
Q802	D-4
Q803	D-3
Q891	B-1
VARIABLE RESISTOR	
RV351	F-5
RV352	F-6
RV353	F-6
RV354	F-4
RV551	E-2
RV601	B-4

A [VIF, SIF, Y/C, Y/C JUNGLE, CPU, VC OUT, SEEK AGC, SYNC SEP/AMP]

— A Board —



A Board

DIODE	
D001	A-1
D002	B-2
D003	C-5
D004	C-6
D005	C-6
D006	A-1
D151	E-6
D202	E-2
D301	E-3
D501	B-2

IC	
IC001	B-5
IC002	C-5
IC003	B-4
IC201	E-4

TRANSISTOR	
Q001	A-2
Q002	B-2
Q003	C-4
Q004	B-2
Q005	
Q006	B-3
Q007	B-3
Q151	F-6
Q152	F-6
Q153	F-5
Q154	F-6
Q202	D-2
Q203	C-1
Q204	C-1
Q205	C-2
Q301	E-3

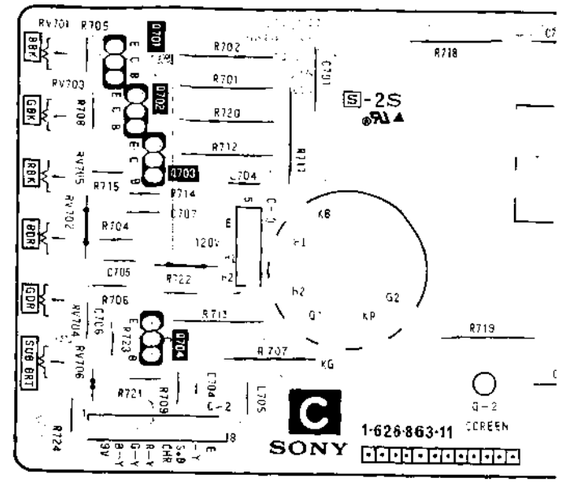
VARIABLE RESISTOR	
RV151	E-6
RV201	E-6
RV301	D-4
RV501	E-3

C [RGB OUT, CHR OUT]

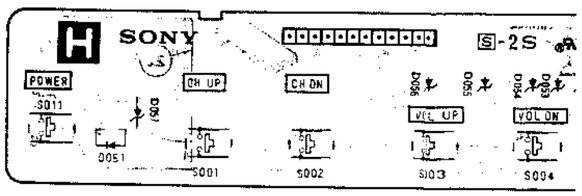
H [LED DRV, POWER LED]

F [CHOP

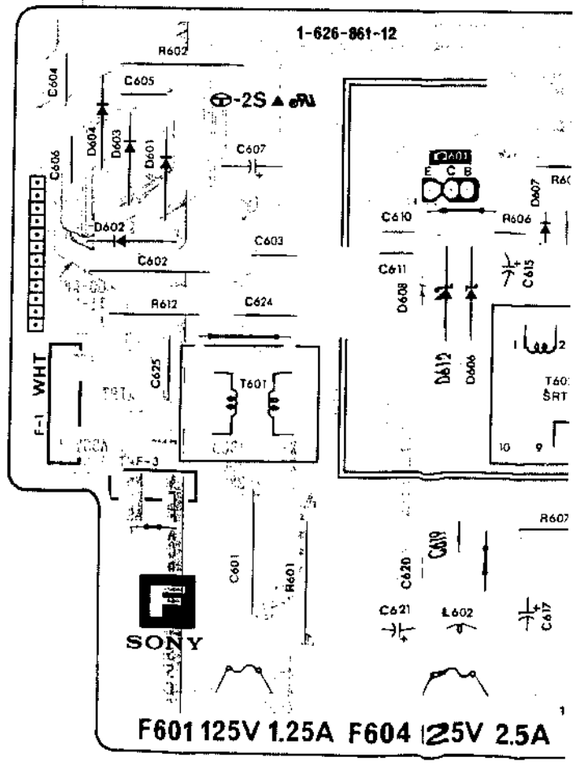
— C Board —



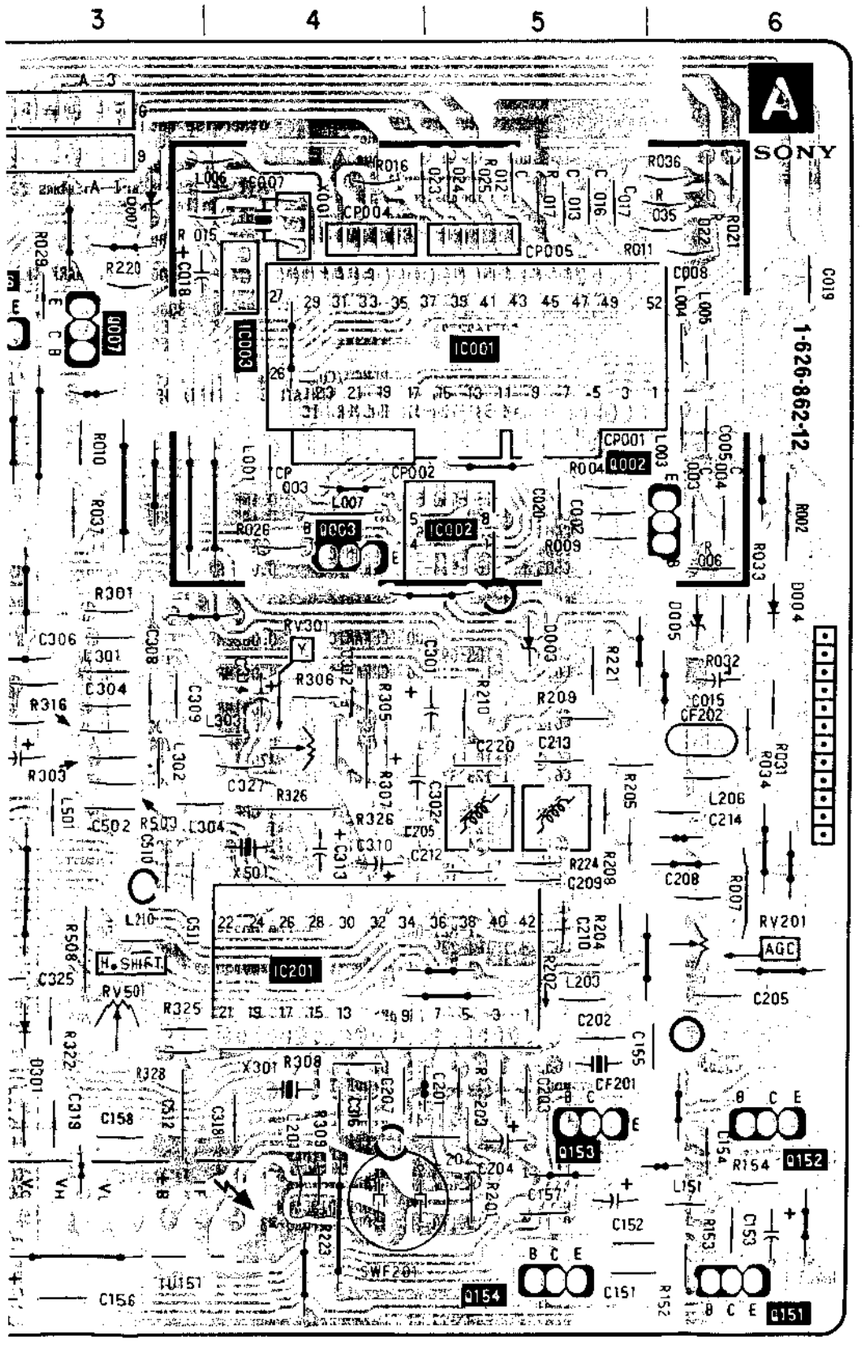
— H Board —



— F Board —



GC, SYNC SEP/AMP]



A Board

DIODE	
D001	A-1
D002	B-2
D003	C-5
D004	C-6
D005	C-6
D006	A-1
D151	E-6
D202	E-2
D301	E-3
D501	B-2

IC	
IC001	B-5
IC002	C-5
IC003	B-4
IC201	E-4

TRANSISTOR	
Q001	A-2
Q002	B-2
Q003	C-4
Q004	B-2
Q005	
Q006	B-3
Q007	B-3
Q151	F-6
Q152	F-6
Q153	F-5
Q154	F-5
Q202	D-2
Q203	C-1
Q204	C-1
Q205	C-2
Q301	E-3

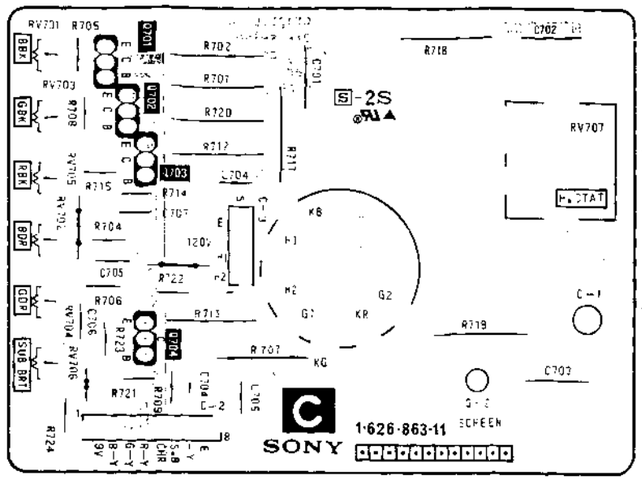
VARIABLE RESISTOR	
RV151	E-6
RV201	E-6
RV301	D-4
RV501	E-3

C [RGB OUT, CHR OUT]

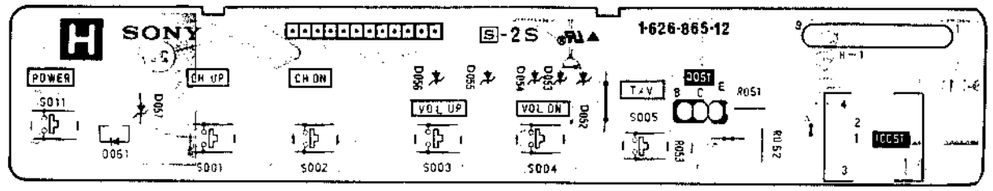
H [LED DRV, POWER LED]

F [CHOP OUT, AC RECT, DC RECT]

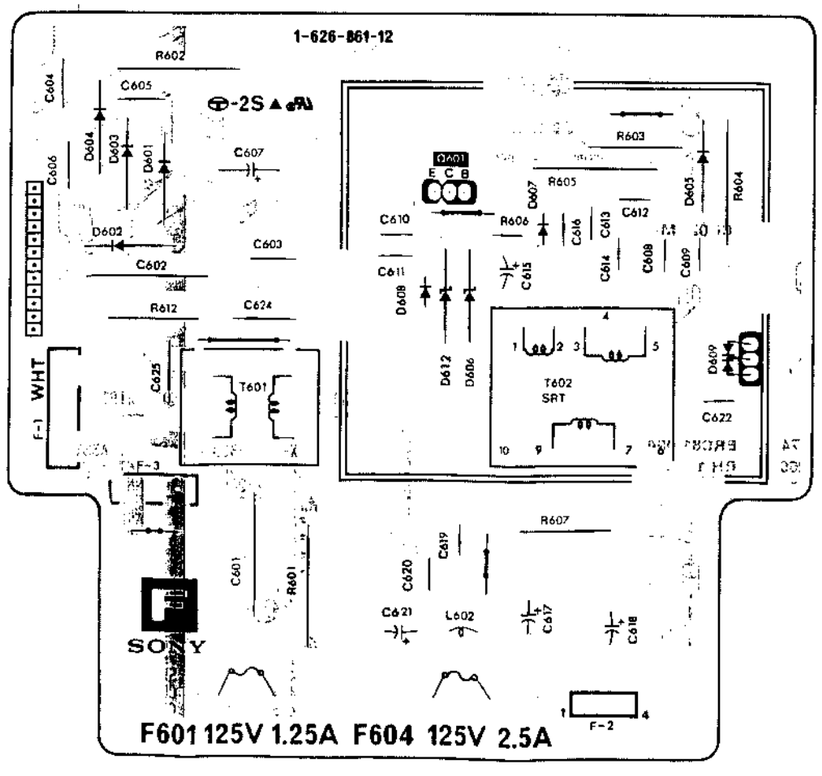
— C Board —



— H Board —

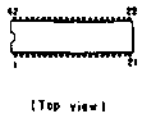


— F Board —

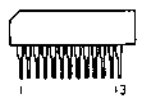


6-3. SEMICONDUCTORS

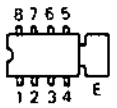
LA7650



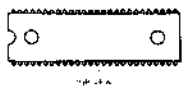
LA7835



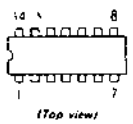
MSM16911RS



M50439-711SP



μPC1394C
μPD4066



BU271

DTA114ES
DTC144ES

2SC2120

2SC2555N

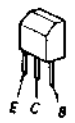
2SC2610

2SC2688

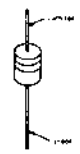
2SC2785

2SC4274
2SD1266
2SD835

2SD773



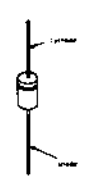
1SS119
GP08D
HZT33-02
RD3.6ESB2
RD5.6ESB2
RD6.2ESB2
RD6.8ESL3
RD10ESB2
RD10ESB3
RD12ESB2



1S2076A
EL1Z
ERB43-04
RGP10G

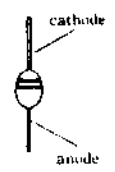
CR02AM-4

ERC81-004
RH-1

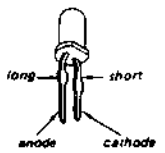


TVR4J

V19C



TLG124A



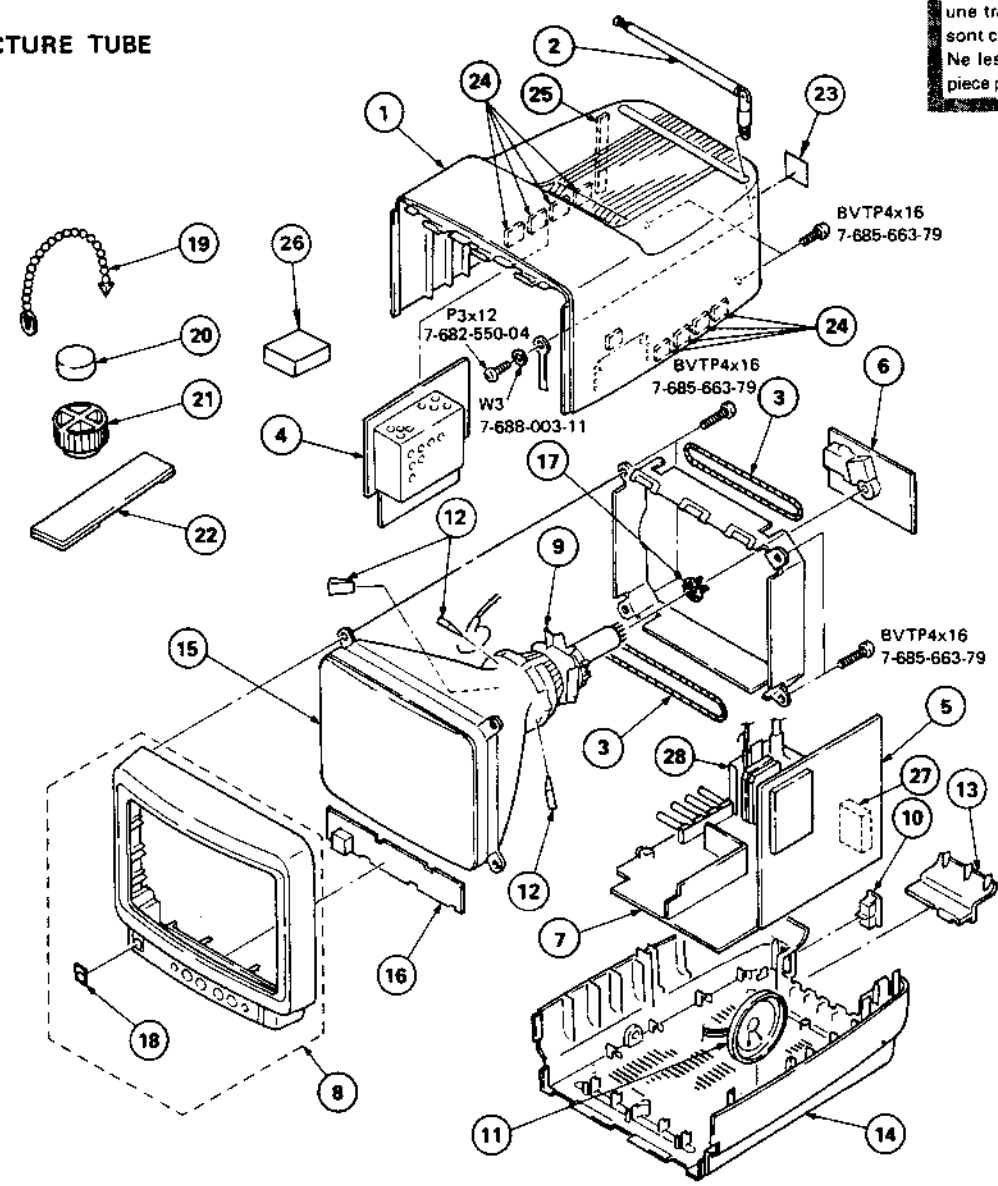
SECTION 7
EXPLODED VIEW

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

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

PICTURE TUBE



NO.	PART NO.	DESCRIPTION	REMARK
1	X-4390-303-6	CABINET ASSY (WHITE)	24,25
	X-4390-303-7	CABINET ASSY (BLACK)	24,25
2	1-501-286-00	ANTENNA, TELESCOPIC	
3	⚠ 1-426-382-11	COIL, DEMAGNETIZATION	
4	*A-1245-450-A	F BOARD, COMPLETE	
5	*A-1296-462-A	A BOARD, COMPLETE	
6	*A-1330-884-A	C BOARD, COMPLETE	
7	*A-1345-837-A	D BOARD, COMPLETE	
8	X-4390-302-6	BEZEL ASSY (WHITE)	18
	X-4390-302-7	BEZEL ASSY (BLACK)	18
9	⚠ 1-451-265-11	DEFLECTION YOKE (SY-167)	
10	⚠ 1-540-032-11	INLET 2P	
11	1-544-011-11	SPEAKER	
12	4-309-369-00	SPACER, DEFLECTION YOKE	
13	4-390-307-01	COVER, CONNECTOR (WHITE)	
	4-390-307-11	COVER, CONNECTOR (BLACK)	
14	4-390-310-01	CABINET, LOWER (WHITE)	
	4-390-310-11	CABINET, LOWER (BLACK)	
15	⚠ 8-737-151-05	PICTURE TUBE (A20JKU10X)	
16	*1-626-865-11	H BOARD	
17	2-152-292-00	BASE, STEM	
18	*4-390-302-01	FILTER	
19	4-308-870-00	CLIP, LEAD WIRE	
20	1-452-032-00	MAGNET, DISK; 10MM ϕ	
21	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
22	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
23	3-895-839-01	LABEL, SERIAL NUMBER	
24	3-831-441-XX	CUSHION	
25	9-911-835-XX	CUSHION, F	
26	1-452-512-11	MAGNET	
27	⚠ 1-465-045-11	TUNER UNIT (TUSQF3U-291)	
28	⚠ 1-439-436-11	TRANSFORMER ASSY, FLYBACK	

F A

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

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

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

- The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1245-450-A	F BOARD, COMPLETE **********			
	*1-564-507-11	PLUG, CONNECTOR 4P			
	*1-565-425-11	PLUG, MINIATURE (L TYPE) 3P			
	*4-381-724-01	HOLDER, IC			
		<CAPACITOR>			
C601	⚠ 1-130-680-51	FILM	0.1MF 20%	125V	
C602	⚠ 1-130-680-51	FILM	0.1MF 20%	125V	
C603	⚠ 1-161-964-51	CERAMIC	0.0047MF	250V	
C604	⚠ 1-161-964-51	CERAMIC	0.0047MF	250V	
C605	⚠ 1-161-964-51	CERAMIC	0.0047MF	250V	
C606	⚠ 1-161-964-51	CERAMIC	0.0047MF	250V	
C607	1-124-959-11	ELECT	330MF 20%	200V	
C608	1-101-821-00	CERAMIC	0.0022MF	500V	
C609	1-108-692-11	MYLAR	0.01MF 10%	200V	
C610	1-102-038-00	CERAMIC	0.001MF	500V	
C611	1-102-038-00	CERAMIC	0.001MF	500V	
C612	1-106-345-00	MYLAR	0.0012MF 10%	100V	
C613	1-108-843-11	MYLAR	0.033MF 10%	50V	
C614	1-102-114-00	CERAMIC	470PF 10%	50V	
C615	1-123-330-00	ELECT	22MF 20%	16V	
C616	1-102-114-00	CERAMIC	470PF 10%	50V	
C617	1-124-557-11	ELECT	1000MF 20%	25V	
C618	1-124-557-11	ELECT	1000MF 20%	25V	
C619	1-130-483-00	MYLAR	0.01MF 10%	50V	
C620	1-136-165-00	FILM	0.1MF 5%	50V	
C621	1-124-480-11	ELECT	470MF 20%	25V	
C622	1-101-821-00	CERAMIC	0.0022MF	500V	
C624	⚠ 1-164-229-11	CERAMIC	0.0033MF 20%	125V	
C625	⚠ 1-164-229-11	CERAMIC	0.0033MF 20%	125V	
		<DIODE>			
D601	⚠ 8-719-801-70	DIODE TVR4J			
D602	⚠ 8-719-801-70	DIODE TVR4J			
D603	⚠ 8-719-801-70	DIODE TVR4J			
D604	⚠ 8-719-801-70	DIODE TVR4J			
D605	1-806-549-41	DIODE ERB43-08			
D606	⚠ 8-719-110-18	DIODE RD10ES-B3			
D607	⚠ 8-719-923-76	DIODE 1S2076A			
D608	8-719-911-19	DIODE 1SS119			
D609	8-719-510-09	DIODE D10SC6M			
D612	⚠ 8-719-110-18	DIODE RD10ES-B3			
		<FUSE>			
F601	⚠ 1-532-741-11	FUSE, GLASS TUBE 1.25A/125V			
F604	⚠ 1-532-744-11	FUSE, GLASS TUBE 2.5A/125V			
	*1-533-189-11	HOLDER, FUSE; F604			
		<COIL>			
L602	1-407-365-00	COIL,CHOKE			
		<TRANSISTOR>			
Q601	⚠ 8-729-920-90	TRANSISTOR 2SC4274-02			
	*4-363-146-00	HEAT SINK, V.OUT; Q601			
		<RESISTOR>			
RG01	⚠ 1-216-389-11	METAL OXIDE	1 5%	3W F	
R602	⚠ 1-216-393-51	METAL OXIDE	2.2 5%	3W F	
R603	1-214-917-00	CARBON	150K 5%	1/2W	
R604	1-215-925-11	METAL OXIDE	22K 5%	3W F	
R605	1-215-913-11	METAL OXIDE	220 5%	3W F	
R606	1-249-417-11	CARBON	1K 5%	1/4W	
R607	1-205-892-11	WIREWOUND	180 5%	5W F	
R612	1-202-723-00	SOLID	2.2M 10%	1/2W	
		<TRANSFORMER>			
T601	⚠ 1-424-120-11	TRANSFORMER, LINE FILTER			
T602	⚠ 1-449-391-21	TRANSFORMER,SWITCHNG REGULATOR			

****

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1296-462-A	A BOARD, COMPLETE **********			
	1-506-978-11	CONNECTOR, BOARD TO BOARD 6P			
	1-564-098-00	CONNECTOR, BOARD TO BOARD 8P			
	*1-564-512-11	PLUG, CONNECTOR 9P			
	1-564-610-11	CONNECTOR, BOARD TO BOARD			
		<CAPACITOR>			
C001	1-124-477-11	ELECT	47MF 20%	16V	
C002	1-102-112-00	CERAMIC	330PF 10%	50V	
C003	1-102-074-00	CERAMIC	0.001MF 10%	50V	
C004	1-108-812-11	MYLAR	0.047MF 10%	50V	
C005	1-102-074-00	CERAMIC	0.001MF 10%	50V	
C007	1-102-074-00	CERAMIC	0.001MF 10%	50V	
C008	1-101-004-00	CERAMIC	0.01MF	50V	
C012	1-102-965-00	CERAMIC	39PF 5%	50V	
C013	1-102-965-00	CERAMIC	39PF 5%	50V	
C015	1-124-477-11	ELECT	47MF 20%	16V	
C016	1-102-074-00	CERAMIC	0.001MF 10%	50V	
C017	1-101-880-00	CERAMIC	47PF 5%	50V	
C018	1-124-477-11	ELECT	47MF 20%	16V	
C019	1-101-003-00	CERAMIC	0.0047MF	50V	
C020	1-101-003-00	CERAMIC	0.0047MF	50V	
C151	1-108-812-11	MYLAR	0.047MF 10%	50V	
C152	1-108-843-11	MYLAR	0.033MF 10%	50V	
C153	1-124-477-11	ELECT	47MF 20%	16V	
C154	1-101-004-00	CERAMIC	0.01MF	50V	
C155	1-101-004-00	CERAMIC	0.01MF	50V	
C156	1-101-004-00	CERAMIC	0.01MF	50V	
C157	1-124-477-11	ELECT	47MF 20%	16V	
C158	1-124-925-11	ELECT	2.2MF 20%	50V	
C201	1-102-121-00	CERAMIC	0.0022MF 10%	50V	
C202	1-102-125-00	CERAMIC	0.0047MF 10%	50V	
C203	1-101-004-00	CERAMIC	0.01MF	50V	
C204	1-123-875-11	ELECT	10MF 20%	50V	
C205	1-101-004-00	CERAMIC	0.01MF	50V	
C206	1-124-925-11	ELECT	2.2MF 20%	50V	
C207	1-101-004-00	CERAMIC	0.01MF	50V	
C208	1-101-004-00	CERAMIC	0.01MF	50V	
C209	1-101-886-00	CERAMIC	62PF 5%	50V	
C210	1-102-121-00	CERAMIC	0.0022MF 10%	50V	
C212	1-102-963-00	CERAMIC	33PF 5%	50V	
C213	1-101-886-00	CERAMIC	62PF 5%	50V	
C214	1-102-114-00	CERAMIC	470PF 10%	50V	
C215	1-124-902-00	ELECT	0.47MF 20%	50V	
C216	1-106-355-12	MYLAR	0.0033MF 10%	50V	
C218	1-124-120-11	ELECT	220MF 20%	16V	
C219	1-124-925-11	ELECT	2.2MF 20%	50V	
C220	1-102-074-00	CERAMIC	0.001MF 10%	50V	
C221	1-102-074-00	CERAMIC	0.001MF 10%	50V	
C301	1-124-925-11	ELECT	2.2MF 20%	50V	
C302	1-123-382-00	ELECT	3.3MF 20%	50V	
C303	1-101-004-00	CERAMIC	0.01MF	50V	
C304	1-102-965-00	CERAMIC	39PF 5%	50V	
C306	1-102-944-00	CERAMIC	7PF 0.5PF	50V	
C307	1-101-004-00	CERAMIC	0.01MF	50V	
C308	1-101-880-00	CERAMIC	47PF 5%	50V	
C309	1-102-961-00	CERAMIC	27PF 5%	50V	
C310	1-123-875-11	ELECT	10MF 20%	50V	
C312	1-102-959-00	CERAMIC	22PF 5%	50V	
C313	1-124-925-11	ELECT	2.2MF 20%	50V	
C314	1-124-499-11	ELECT	1MF 20%	50V	
C315	1-123-875-11	ELECT	10MF 20%	50V	
C316	1-136-165-00	FILM	0.1MF 5%	50V	
C317	1-101-004-00	CERAMIC	0.01MF	50V	
C318	1-102-952-00	CERAMIC	16PF 5%	50V	
C319	1-130-485-00	MYLAR	0.015MF 10%	50V	
C320	1-124-925-11	ELECT	2.2MF 20%	50V	
C321	1-124-925-11	ELECT	2.2MF 20%	50V	
C322	1-102-112-00	CERAMIC	330PF 10%	50V	
C323	1-102-112-00	CERAMIC	330PF 10%	50V	
C324	1-102-112-00	CERAMIC	330PF 10%	50V	
C325	1-102-112-00	CERAMIC	330PF 10%	50V	
C326	1-126-101-11	ELECT	100MF 20%	16V	
C327	1-102-960-00	CERAMIC	24PF 5%	50V	
C501	1-124-499-11	ELECT	1MF 20%	50V	
C502	1-102-115-00	CERAMIC	560PF 10%	50V	
C503	1-124-925-11	ELECT	2.2MF 20%	50V	
C504	1-108-843-11	MYLAR	0.033MF 10%	50V	
C506	1-124-927-11	ELECT	4.7MF 20%	50V	
C507	1-126-101-11	ELECT	100MF 20%	16V	
C510	1-102-121-00	CERAMIC	0.0022MF 10%	50V	
C511	1-102-074-00	CERAMIC	0.001MF 10%	50V	
C512	1-161-379-00	CERAMIC	0.01MF 30%	25V	
		<FILTER>			
CF201	1-404-816-11	DISCRIMINATOR, CERAMIC			
CF202	1-527-943-00	FILTER, CERAMIC			
CF203	1-409-332-00	CERAMIC TRAP (4.5MHZ)			
SWF201	1-404-227-51	SAWF 45MHZ			
		<DIODE>			
D001	8-719-109-89	DIODE RD5.6ES-B2			
D002	8-719-911-19	DIODE 1SS119			
D003	8-719-109-89	DIODE RD5.6ES-B2			
D004	8-719-911-19	DIODE 1SS119			
D005	8-719-109-69	DIODE RD3.6ES-B2			
D006	8-719-911-19	DIODE 1SS119			
D007	8-719-109-89	DIODE RD5.6ES-B2			
D008	8-759-157-40	IC UPC574J			
D202	8-719-911-19	DIODE 1SS119			
D301	8-719-911-19	DIODE 1SS119			
D501	8-719-109-98	DIODE RD6.8ES-B3			
		<IC>			
IC001	8-759-631-22	IC M50439-711SP			
IC002	8-759-947-18	IC MSM16911RS			
IC003	8-759-403-42	IC MN1280-Q			
IC201	8-759-820-93	IC LA7650			
		<COIL>			
L001	⚠ 1-408-603-41	INDUCTOR	10UH		
L002	⚠ 1-410-328-21	INDUCTOR	10UH		
L003	1-410-509-11	INDUCTOR	10UH		
L004	1-410-515-11	INDUCTOR	33UH		
L005	1-410-509-11	INDUCTOR	10UH		
L006	1-410-509-11	INDUCTOR	10UH		
L007	1-410-328-11	INDUCTOR	10UH		
L151	1-408-403-00	INDUCTOR	3.3UH		
L201	1-410-360-11	INDUCTOR	0.82UH		
L202	1-410-316-11	INDUCTOR	10H		
L203	1-408-413-00	INDUCTOR	22UH		
L204	1-404-744-11	COIL, IF			
L205	1-404-744-11	COIL, IF			
L206	1-408-402-00	INDUCTOR	2.7UH		
L207	1-408-412-00	INDUCTOR	18UH		
L208	1-410-093-11	INDUCTOR	33MMH		
L209	1-408-409-00	INDUCTOR	10UH		
L210	⚠ 1-410-316-21	INDUCTOR	10H		
L301	1-410-516-11	INDUCTOR	39UH		
L302	1-410-512-11	INDUCTOR	18UH		
L303	1-410-520-11	INDUCTOR	82UH		
L304	1-410-524-41	INDUCTOR	180UH		
L501	1-408-420-00	INDUCTOR	82UH		
		<TRANSISTOR>			
Q001	⚠ 8-729-212-02	TRANSISTOR 2SC2120-Y			
Q002	8-729-178-54	TRANSISTOR 2SC2785			
Q003	8-729-900-89	TRANSISTOR DTC144ES			
Q004	8-729-900-89	TRANSISTOR DTC144ES			
Q006	8-729-178-54	TRANSISTOR 2SC2785			
Q007	8-729-900-89	TRANSISTOR DTC144ES			
Q151	8-729-178-54	TRANSISTOR 2SC2785			
Q152	8-729-900-61	TRANSISTOR DTA114ES			
Q153	8-729-900-61	TRANSISTOR DTA114ES			
Q154	8-729-900-61	TRANSISTOR DTA114ES			

A

A C

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
Q202	8-729-178-54	TRANSISTOR 2SC2785				
Q203	8-729-178-54	TRANSISTOR 2SC2785				
Q204	8-729-178-54	TRANSISTOR 2SC2785				
Q205	8-729-900-89	TRANSISTOR DTC144ES				
Q301	8-729-117-54	TRANSISTOR 2SA1175				
		<RESISTOR>				
R001	1-249-421-11	CARBON	2.2K	5%	1/4W	
R002	1-247-715-11	CARBON	1.5K	5%	1/4W	
R004	1-249-429-11	CARBON	10K	5%	1/4W	
R006	1-249-435-11	CARBON	33K	5%	1/4W	
R007	1-247-726-11	CARBON	33K	5%	1/4W	
R009	1-249-429-11	CARBON	10K	5%	1/4W	
R010	1-249-441-11	CARBON	100K	5%	1/4W	
R011	1-249-429-11	CARBON	10K	5%	1/4W	
R015	1-249-429-11	CARBON	10K	5%	1/4W	
R016	1-249-409-11	CARBON	220	5%	1/4W	
R017	1-215-421-00	METAL	1K	1%	1/6W	
R021	1-249-417-11	CARBON	1K	5%	1/4W	
R022	1-249-417-11	CARBON	1K	5%	1/4W	
R023	1-249-417-11	CARBON	1K	5%	1/4W	
R024	1-249-417-11	CARBON	1K	5%	1/4W	
R025	1-249-417-11	CARBON	1K	5%	1/4W	
R026	1-249-410-11	CARBON	270	5%	1/4W	
R027	1-249-420-11	CARBON	1.8K	5%	1/4W	
R028	1-249-435-11	CARBON	33K	5%	1/4W	
R029	1-249-428-11	CARBON	8.2K	5%	1/4W	
R030	1-215-877-11	METAL OXIDE	22K	5%	1W	F
R031	1-249-424-11	CARBON	3.9K	5%	1/4W	
R032	1-249-423-11	CARBON	3.3K	5%	1/4W	
R033	1-249-430-11	CARBON	12K	5%	1/4W	
R034	1-249-421-11	CARBON	2.2K	5%	1/4W	
R035	1-249-433-11	CARBON	22K	5%	1/4W	
R036	1-249-433-11	CARBON	22K	5%	1/4W	
R037	1-249-433-11	CARBON	22K	5%	1/4W	
R152	1-247-895-00	CARBON	470K	5%	1/4W	
R153	1-249-421-11	CARBON	2.2K	5%	1/4W	
R154	1-249-413-11	CARBON	470	5%	1/4W	
R155	1-249-435-11	CARBON	33K	5%	1/4W	
R201	1-249-421-11	CARBON	2.2K	5%	1/4W	
R202	1-249-416-11	CARBON	820	5%	1/4W	
R203	1-249-417-11	CARBON	1K	5%	1/4W	
R204	1-249-441-11	CARBON	100K	5%	1/4W	
R205	1-249-425-11	CARBON	4.7K	5%	1/4W	
R206	1-249-433-11	CARBON	22K	5%	1/4W	
R208	1-249-417-11	CARBON	1K	5%	1/4W	
R209	1-249-430-11	CARBON	12K	5%	1/4W	
R210	1-249-435-11	CARBON	33K	5%	1/4W	
R211	1-249-412-11	CARBON	390	5%	1/4W	
R212	1-249-409-11	CARBON	220	5%	1/4W	
R213	1-249-417-11	CARBON	1K	5%	1/4W	
R214	1-249-411-11	CARBON	330	5%	1/4W	
R215	1-249-429-11	CARBON	10K	5%	1/4W	
R216	1-249-423-11	CARBON	3.3K	5%	1/4W	
R217	1-249-429-11	CARBON	10K	5%	1/4W	
R219	1-249-427-11	CARBON	6.8K	5%	1/4W	
R220	1-249-429-11	CARBON	10K	5%	1/4W	
R221	1-249-432-11	CARBON	18K	5%	1/4W	
R222	1-249-433-11	CARBON	22K	5%	1/4W	
R223	1-249-415-11	CARBON	680	5%	1/4W	
R224	1-249-420-11	CARBON	1.8K	5%	1/4W	
R301	1-249-421-11	CARBON	2.2K	5%	1/4W	
R302	1-249-429-11	CARBON	10K	5%	1/4W	
R303	1-249-420-11	CARBON	1.8K	5%	1/4W	
R305	1-249-423-11	CARBON	3.3K	5%	1/4W	
R306	1-249-428-11	CARBON	8.2K	5%	1/4W	
R307	1-249-423-11	CARBON	3.3K	5%	1/4W	
R308	1-247-903-00	CARBON	1M	5%	1/4W	
R309	1-247-891-00	CARBON	330K	5%	1/4W	
R310	1-249-417-11	CARBON	1K	5%	1/4W	
R311	1-249-418-11	CARBON	1.2K	5%	1/4W	
R312	1-249-411-11	CARBON	330	5%	1/4W	
R313	1-249-411-11	CARBON	330	5%	1/4W	
R314	1-249-411-11	CARBON	330	5%	1/4W	
R315	1-249-429-11	CARBON	10K	5%	1/4W	
R316	1-249-415-11	CARBON	680	5%	1/4W	
R321	1-249-411-11	CARBON	330	5%	1/4W	
R322	1-249-429-11	CARBON	10K	5%	1/4W	
R325	1-249-429-11	CARBON	10K	5%	1/4W	
R326	1-247-712-11	CARBON	820	5%	1/4W	
R328	1-249-405-11	CARBON	100	5%	1/4W	
R501	1-249-414-11	CARBON	560	5%	1/4W	
R502	1-247-891-00	CARBON	330K	5%	1/4W	
R503	1-249-417-11	CARBON	1K	5%	1/4W	
R504	1-249-418-11	CARBON	1.2K	5%	1/4W	
R505	1-249-421-11	CARBON	2.2K	5%	1/4W	
R506	1-215-443-00	METAL	8.2K	1%	1/6W	
R508	1-247-700-11	CARBON	100	5%	1/4W	F
		<VARIABLE ERSISTOR>				
RV201	1-238-016-11	RES, ADJ, CARBON 10K				
RV301	1-238-013-11	RES, ADJ, CARBON 2.2K				
RV501	1-238-019-11	RES, ADJ, CARBON 47K				
		<TUNER>				
TU151⚠	1-465-045-11	TUNER UNIT (TUSOF3U-291)				
		<CRYSTAL>				
X001	1-577-082-11	VIBRATOR, CERAMIC				
X301	1-567-505-11	OSCILLATOR, CRYSTAL				
X501	1-577-155-11	VIBLATOR, CERAMIC				
		**********				
	*A-1330-884-A	C BOARD, COMPLETE				
		**********				
	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P				
	*1-564-508-11	PLUG, CONNECTOR 5P				
	*1-564-523-11	PLUG, CONNECTOR 8P				
	*4-376-132-11	COVER (REAR LID), CV VOL				
	*4-376-133-11	COVER (MAIN), CV VOL				
		<CAPACITOR>				
C701	1-162-116-00	CERAMIC	680PF	20%	2KV	
C702	1-102-050-00	CERAMIC	0.01MF		500V	
C703	1-162-114-00	CERAMIC	0.0047MF		2KV	
C705	1-102-114-00	CERAMIC	470PF	10%	50V	
C706	1-102-114-00	CERAMIC	470PF	10%	50V	
C707	1-102-113-00	CERAMIC	390PF	10%	50V	
		<JACK>				
J701	1-562-869-41	SOCKET, PICTURE TUBE				

C D

The components identified by shading and mark ⚠ are critical for safety.
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Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<COIL>				
L704	1-408-420-00	INDUCTOR	82UH			
L705	1-408-413-00	INDUCTOR	22UH			
		<TRANSISTOR>				
Q701	8-729-301-46	TRANSISTOR 2SC2610				
Q702	8-729-301-46	TRANSISTOR 2SC2610				
Q703	8-729-301-46	TRANSISTOR 2SC2610				
Q704	8-729-301-46	TRANSISTOR 2SC2610				
		<RESISTOR>				
R701	1-215-899-11	METAL OXIDE	15K	5%	2W	F
R702	1-202-822-00	SOLID	2.2K	10%	1/2W	
R704	1-249-409-11	CARBON	220	5%	1/4W	
R705	1-249-419-11	CARBON	1.5K	5%	1/4W	
R706	1-249-409-11	CARBON	220	5%	1/4W	
R707	1-202-822-00	SOLID	2.2K	10%	1/2W	
R708	1-249-419-11	CARBON	1.5K	5%	1/4W	
R709	1-249-418-11	CARBON	1.2K	5%	1/4W	
R712	1-215-899-11	METAL OXIDE	15K	5%	2W	F
R713	1-202-822-00	SOLID	2.2K	10%	1/2W	
R714	1-249-414-11	CARBON	560	5%	1/4W	
R715	1-249-418-11	CARBON	1.2K	5%	1/4W	
R717	1-202-842-11	SOLID	220K	10%	1/2W	
R718	1-202-719-00	SOLID	1M	10%	1/2W	
R719	1-202-838-00	SOLID	100K	10%	1/2W	
R720	1-215-899-11	METAL OXIDE	15K	5%	2W	F
R721	1-249-405-11	CARBON	100	5%	1/4W	
R722	1-249-405-11	CARBON	100	5%	1/4W	
R723	1-249-405-11	CARBON	100	5%	1/4W	
R724	1-249-441-11	CARBON	100K	5%	1/4W	
		<VARIABLE RESISTOR>				
RV701	1-230-720-11	RES, ADJ, CARBON 4.7K				
RV702	1-230-717-11	RES, ADJ, CARBON 470				
RV703	1-230-720-11	RES, ADJ, CARBON 4.7K				
RV704	1-230-717-11	RES, ADJ, CARBON 470				
RV705	1-230-720-11	RES, ADJ, CARBON 4.7K				
RV706	1-230-497-11	RES, ADJ, CARBON 22K				
RV707	1-230-164-21	RES, ADJ, METAL GLAZE 55M				
**********						
	*A-1345-837-A	D BOARD, COMPLETE				
		**********				
	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P				
	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P				
	*1-533-189-11	HOLDER, FUSE				
	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P				
	*1-564-505-11	PLUG, CONNECTOR 2P				
	*4-341-751-01	EYELET				
	4-365-216-00	SPACER, MICA				
	*4-381-724-01	HOLDER, IC				
		<CAPACITOR>				
C251	1-124-120-11	ELECT	220MF	20%	16V	
C252	1-101-004-00	CERAMIC	0.01MF		50V	
C253	1-124-925-11	ELECT	2.2MF	20%	50V	
C254	1-124-477-11	ELECT	47MF	20%	16V	
C255	1-126-103-11	ELECT	470MF	20%	16V	
C256	1-126-101-11	ELECT	100MF	20%	16V	
C258	1-124-902-00	ELECT	0.47MF	20%	50V	
C401	1-102-953-00	CERAMIC	18PF	5%	50V	
C402	1-126-101-11	ELECT	100MF	20%	16V	
C403	1-101-004-00	CERAMIC	0.01MF		50V	
C404	1-123-875-11	ELECT	10MF	20%	50V	
C405	1-124-499-11	ELECT	1MF	20%	50V	
C551	1-124-477-11	ELECT	47MF	20%	16V	
C552	1-131-347-00	TANTALUM	1MF	10%	35V	
C553	1-124-910-11	ELECT	47MF	20%	50V	
C554	1-124-478-11	ELECT	100MF	20%	25V	
C556	1-101-004-00	CERAMIC	0.01MF		50V	
C557	1-124-925-11	ELECT	2.2MF	20%	50V	
C558	1-124-480-11	ELECT	470MF	20%	25V	
C651	1-124-480-11	ELECT	470MF	20%	25V	
C652	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C653	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C654	1-124-607-11	ELECT	2200MF	20%	50V	
C655	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C656	1-123-875-11	ELECT	10MF	20%	50V	
C657	1-108-796-11	MYLAR	0.0022MF	5%	50V	
C658	1-126-233-11	ELECT	22MF	20%	50V	
C659	1-136-165-00	FILM	0.1MF	5%	50V	
C660	1-102-244-00	CERAMIC	220PF	10%	500V	
C661	1-108-627-11	MYLAR	0.012MF	10%	100V	
C662	1-123-875-11	ELECT	10MF	20%	50V	
C664	1-126-101-11	ELECT	100MF	20%	16V	
C665	1-124-120-11	ELECT	220MF	20%	16V	
C666	1-101-004-00	CERAMIC	0.01MF		50V	
C802	1-106-359-00	MYLAR	0.0047MF	5%	50V	
C803	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C804 ⚠	1-136-182-11	FILM	0.017MF	3%	600V	
C805	1-162-115-00	CERAMIC	330PF	10%	2KV	
C806	1-124-912-11	ELECT	330MF	20%	50V	
C807	1-102-228-00	CERAMIC	470PF	10%	500V	
C808	1-124-912-11	ELECT	330MF	20%	50V	
C809	1-124-046-00	ELECT	10MF	20%	160V	
C810	1-124-910-11	ELECT	47MF	20%	50V	
C811	1-130-789-00	FILM	1MF	10%	100V	
C812	1-102-228-00	CERAMIC	470PF	10%	500V	
C813	1-106-347-00	MYLAR	0.0015MF	10%	200V	
C815	1-136-165-00	FILM	0.1MF	5%	50V	
C817	1-130-983-00	FILM	1.5MF	10%	100V	
C818	1-102-112-00	CERAMIC	330PF	10%	50V	
C820	1-108-812-11	MYLAR	0.047MF	5%	50V	
C821	1-124-499-11	ELECT	1MF	20%	50V	
C891	1-126-233-11	ELECT	22MF	20%	50V	
C892	1-124-798-11	ELECT	1MF	20%	160V	
C893	1-130-800-00	FILM	2.2MF	10%	250V	
		<DIODE>				
D252	8-719-911-55	DIODE U05G				
D401	8-719-110-31	DIODE RD12ES-B2				
D551	8-719-911-55	DIODE U05G				
D552	8-719-110-31	DIODE RD12ES-B2				
D651	8-719-981-00	DIODE ERC81-004				
D652	8-719-911-19	DIODE 1SS119				
D653	8-719-911-55	DIODE U05G				
D654 ⚠	8-719-110-17	DIODE RD10ES-B2				
D801	8-719-300-76	DIODE RH-1A				
D803	8-719-971-20	DIODE ERC38-06				

D

• The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
D804	8-719-971-20	DIODE ERC38-06	
D806 ⚠	8-719-302-43	DIODE EL1Z	
D809	8-719-925-06	DIODE ERC25-06S	
D810	8-719-925-06	DIODE ERC25-06S	
D891	8-719-000-28	THYRISTOR CR02AM-8	
D892	8-719-911-55	DIODE U05G	
D893	8-719-109-93	DIODE RD6.2ES-B2	
		<FUSE>	
F602 ⚠	1-532-745-11	FUSE, GLASS TUBE 3.15A/125V	
F603 ⚠	1-532-961-11	FUSE, MICRO 1.6A/125V	
		<IC>	
IC251	8-759-101-77	IC UPC1241H	
IC401	8-759-140-66	IC UPD4066BC	
IC551	8-759-820-92	IC LA7835	
IC651	8-759-100-75	IC UPC1394C	
		<JACK>	
J151	1-507-814-00	JACK, ANTENNA	
J251	1-507-969-11	JACK	
J401	1-563-500-21	JACK BLOCK, PIN (L TYPE) 2P	
J402	1-563-500-21	JACK BLOCK, PIN (L TYPE) 2P	
J602	1-507-563-00	JACK, DC	
		<COIL>	
L651	1-424-119-11	COIL, CHOKE 480UH	
L652	1-407-365-00	COIL,CHOKE	
L653	1-408-425-00	INDUCTOR 220UH	
L801	1-407-365-00	COIL,CHOKE	
L802	1-408-403-00	INDUCTOR 3.3UH	
L803 ⚠	1-410-328-21	INDUCTOR 10UH	
L804 ⚠	1-421-329-31	COIL, CHOKE	
L805 ⚠	1-459-370-12	COIL, FERRITE (HLC)	
L806 ⚠	1-459-597-11	COIL, VARIABLE	
L891	1-459-109-00	COIL,DUST CORE	
		<TRANSISTOR>	
Q251 ⚠	8-729-177-33	TRANSISTOR 2SD773-4	
Q401	8-729-178-55	TRANSISTOR 2SC2785-E	
Q402	8-729-178-55	TRANSISTOR 2SC2785-E	
Q403	8-729-178-55	TRANSISTOR 2SC2785-E	
Q651	8-729-903-80	TRANSISTOR BUZ71	
Q652	8-729-178-55	TRANSISTOR 2SC2785-E	
Q653 ⚠	8-729-178-55	TRANSISTOR 2SC2785-E	
Q654 ⚠	8-729-400-81	TRANSISTOR 2SD1266-Q	
Q801	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q802	8-729-201-62	TRANSISTOR 2SC2555-2	
Q803	8-729-178-55	TRANSISTOR 2SC2785-E	
Q891	8-729-906-24	TRANSISTOR 2SD835	
		<RESISTOR>	
R251	1-249-417-11	CARBON 1K 5% 1/4W	
R252	1-249-421-11	CARBON 2.2K 5% 1/4W	
R253	1-249-421-11	CARBON 2.2K 5% 1/4W	
R254	1-249-447-11	CARBON 1 5% 1/4W	
R256	1-249-407-11	CARBON 150 5% 1/4W	
R257	1-249-397-11	CARBON 22 5% 1/4W	
R351	1-247-883-00	CARBON 150K 5% 1/4W	
R352	1-249-439-11	CARBON 68K 5% 1/4W	
R355	1-249-438-11	CARBON 56K 5% 1/4W	
R356	1-249-432-11	CARBON 18K 5% 1/4W	
R357	1-249-436-11	CARBON 39K 5% 1/4W	
R358	1-249-430-11	CARBON 12K 5% 1/4W	
R359	1-249-431-11	CARBON 15K 5% 1/4W	
R360	1-249-430-11	CARBON 12K 5% 1/4W	
R401	1-247-804-11	CARBON 75 5% 1/4W	
R402	1-249-419-11	CARBON 1.5K 5% 1/4W	
R403	1-249-419-11	CARBON 1.5K 5% 1/4W	
R404	1-249-423-11	CARBON 3.3K 5% 1/4W	
R405	1-249-428-11	CARBON 8.2K 5% 1/4W	
R406	1-249-423-11	CARBON 3.3K 5% 1/4W	
R407	1-249-423-11	CARBON 3.3K 5% 1/4W	
R410	1-247-883-00	CARBON 150K 5% 1/4W	
R411	1-249-417-11	CARBON 1K 5% 1/4W	
R412	1-247-883-00	CARBON 150K 5% 1/4W	
R413	1-247-883-00	CARBON 150K 5% 1/4W	
R414	1-249-429-11	CARBON 10K 5% 1/4W	
R415	1-249-433-11	CARBON 22K 5% 1/4W	
R551	1-249-433-11	CARBON 22K 5% 1/4W	
R552	1-249-421-11	CARBON 2.2K 5% 1/4W	
R553	1-216-376-00	METAL OXIDE 3.9 5% 2W	F
R554	1-249-435-11	CARBON 33K 5% 1/4W	
R556	1-249-433-11	CARBON 22K 5% 1/4W	
R557	1-249-420-11	CARBON 1.8K 5% 1/4W	
R558	1-249-433-11	CARBON 22K 5% 1/4W	
R559	1-249-411-11	CARBON 330 5% 1/4W	
R561	1-249-417-11	CARBON 1K 5% 1/4W	
R563	1-249-435-11	CARBON 33K 5% 1/4W	
R651	1-247-700-11	CARBON 100 5% 1/4W	F
R652 ⚠	1-247-700-91	CARBON 100 5% 1/4W	F
R653	1-215-870-11	METAL OXIDE 1.5K 5% 1W	F
R654	1-249-421-11	CARBON 2.2K 5% 1/4W	
R655	1-216-434-11	METAL OXIDE 1.8K 5% 1W	F
R656	1-249-436-11	CARBON 39K 5% 1/4W	
R657	1-249-428-11	CARBON 8.2K 5% 1/4W	
R658	1-214-753-00	METAL 10K 1% 1/4W	
R659	1-215-421-00	METAL 1K 1% 1/6W	
R660	1-249-401-11	CARBON 47 5% 1/4W	
R661	1-249-438-11	CARBON 56K 5% 1/4W	
R662	1-215-437-00	METAL 4.7K 1% 1/6W	
⊠R663 ⚠		CARBON 1/4W	
R664	1-215-435-00	METAL 3.9K 1% 1/6W	
⊠R665 ⚠		CARBON 1/4W	
R666	1-249-441-11	CARBON 100K 5% 1/4W	
R667	1-249-430-11	CARBON 12K 5% 1/4W	
R668	1-249-417-11	CARBON 1K 5% 1/4W	
R669	1-249-405-11	CARBON 100 5% 1/4W	
R670	1-249-425-11	CARBON 4.7K 5% 1/4W	
R671	1-249-417-11	CARBON 1K 5% 1/4W	
R672	1-247-700-11	CARBON 100 5% 1/4W	
R801	1-249-411-11	CARBON 330 5% 1/4W	
R802	1-249-414-11	CARBON 560 5% 1/4W	
R804	1-249-428-11	CARBON 8.2K 5% 1/4W	
R805	1-249-431-11	CARBON 15K 5% 1/4W	
R806	1-249-389-11	CARBON 4.7 5% 1/4W	F
R807	1-215-455-00	METAL 27K 1% 1/6W	
R808	1-215-440-00	METAL 6.2K 1% 1/6W	
R809	1-249-456-11	CARBON 5.6 5% 1/4W	F
R810	1-247-693-11	CARBON 27 5% 1/4W	F
R811	1-247-700-11	CARBON 100 5% 1/4W	F
R812	1-249-417-11	CARBON 1K 5% 1/4W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

• The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R815	1-249-439-11	CARBON	68K	5%	1/4W	
R819	1-215-857-11	METAL OXIDE	10	5%	1W	F
R820	1-215-890-11	METAL OXIDE	470	5%	2W	F
⊠R821⚠		METAL			1/6W	
⊠R822⚠		METAL			1/6W	
R823	1-249-421-11	CARBON	2.2K	5%	1/4W	
R891	1-247-895-00	CARBON	470K	5%	1/4W	
R892	1-249-437-11	CARBON	47K	5%	1/4W	
R893⚠	1-247-713-91	CARBON	1K	5%	1/4W	F
R894	1-249-417-11	CARBON	1K	5%	1/4W	
R895	1-249-439-11	CARBON	68K	5%	1/4W	
		<VARIABLE RESISTOR>				
RV351	1-237-209-11	RES, VAR, CARBON 20KX4				
RV352	1-237-209-11	RES, VAR, CARBON 20KX4				
RV353	1-237-209-11	RES, VAR, CARBON 20KX4				
RV354	1-237-209-11	RES, VAR, CARBON 20KX4				
RV551	1-238-019-11	RES, ADJ, CARBON 47K				
RV601	1-238-009-11	RES, ADJ, CARBON 220				
		<RELAY>				
RY651⚠	1-515-684-11	RELAY				
		<SWITCH>				
S551	1-554-186-00	SWITCH, LEVER				
S801	1-554-186-00	SWITCH, LEVER				
		<TRANSFORMER>				
T801	1-437-082-00	HDT				
T802⚠	1-439-436-11	TRANSFORMER ASSY, FLYBACK				
**********						
*1-626-865-11		H BOARD				
		*******				
		<DIODE>				
D051	8-719-812-43	DIODE TLG124A				
D057	8-719-109-89	DIODE RD5.6ES-B2				
		<IC>				
IC051	8-741-148-33	IC SBX1483-59				
		<TRANSISTOR>				
Q051	8-729-178-55	TRANSISTOR 2SC2785-E				
		<RESISTOR>				
R051	1-249-425-11	CARBON	4.7K	5%	1/4W	
R052	1-249-417-11	CARBON	1K	5%	1/4W	
		<SWITCH>				
S001	1-554-303-21	SWITCH, KEY BOARD				
S002	1-554-303-21	SWITCH, KEY BOARD				
S003	1-554-303-21	SWITCH, KEY BOARD				
S004	1-554-303-21	SWITCH, KEY BOARD				
S005	1-554-303-21	SWITCH, KEY BOARD				
S011⚠	1-554-303-11	SWITCH, KEY BOARD (POWER)				
**********						
		MISCELLANEOUS				
		*************				
	1-452-032-00	MAGNET, DISK; 10MM ϕ				
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ				
	1-452-512-11	MAGNET				
	1-501-286-00	ANTENNA, TELESCOPIC				
	⚠1-540-032-11	INLET 2P				
SP251	1-544-011-11	SPEAKER				
L901⚠	1-451-265-11	DEFLECTION YOKE (SY-167)				
L902⚠	1-426-382-11	COIL, DEMAGNETIZATION				
V901⚠	8-737-151-05	PICTURE TUBE (A20JKU10X)				
**********						

ACCESSORIES AND PACKING MATERIALS
****

PART NO.	DESCRIPTION	REMARK
1-417-160-11	CONNECTOR, ANTENNA	
1-465-070-11	REMOTE COMMANDER (RM-759) (BLACK)	
1-465-070-21	REMOTE COMMANDER (RM-759) (WHITE)	
1-551-802-21	CORD, CAR BATTERY	
⚠1-558-834-11	CORD, POWER	
⧈3-704-295-01	BAG (STANDARD), PROTECTION	
3-786-241-21	MANUAL, INSTRUCTION	
3-786-241-31	MANUAL, INSTRUCTION	
*4-390-321-01	INDIVIDUAL CARTON (FOR BLACK)	
*4-390-322-01	INDIVIDUAL CARTON (FOR WHITE)	
*4-390-323-01	SPACER	
*4-390-328-01	CUSHION (UPPER) (ASSY)	
*4-390-329-01	CUSHION (LOWER) (ASSY)	

KV-8AD10
RM-759

SONY.
SERVICE MANUAL

Canadian Model
Serial No. 503,001 and later
Chassis No. SCC-C40A-A

SUPPLEMENT-1

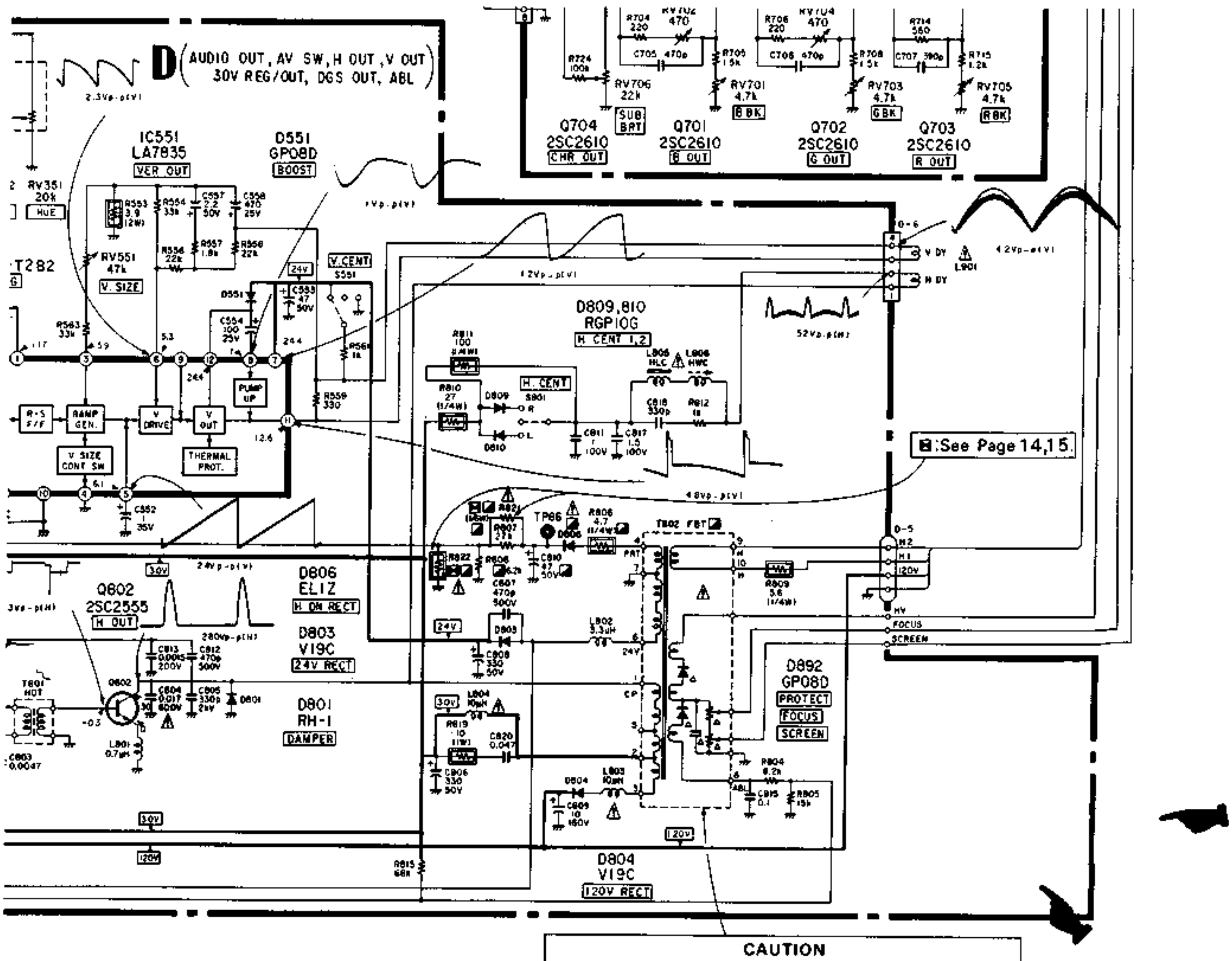
SUBJECT: CIRCUIT MODIFICATIONS

File the supplement with the service manual.

- **INTRODUCTION**
  1. Delete DGC circuit on the D BOARD.

: indicate delete portion

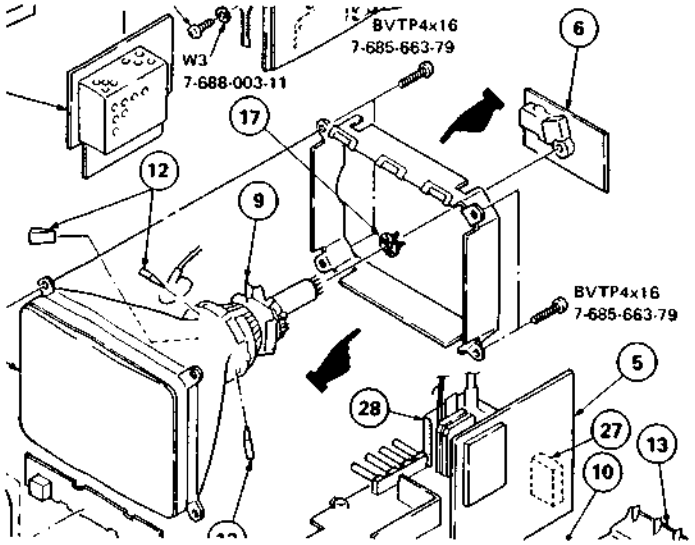
6-2. SCHEMATIC DIAGRAM
D BOARD: Page 22



CAUTION
When replacing T802, be sure to check the point voltage value (TP86). Refer to the Safety Adjustment Section.

MICROFILM

SECTION 7
EXPLODED VIEW: Page 29



NO.	PART NO.	DESCRIPTION	REMARK
1	X-4390-303-6	CABINET ASSY (WHITE)	24,25
	X-4390-303-7	CABINET ASSY (BLACK)	24,25
2	1-501-286-00	ANTENNA, TELESCOPIC	
~~3~~	~~⚠ 1-426-382-11~~	~~COIL, DEMAGNETIZATION~~	
4	*A-1245-450-A	F BOARD, COMPLETE	
5	*A-1296-462-A	A BOARD, COMPLETE	
6	*A-1330-884-A	C BOARD, COMPLETE	
7	*A-1345-837-A	D BOARD, COMPLETE	
8	X-4390-302-6	BEZEL ASSY (WHITE)	18
	X-4390-302-7	BEZEL ASSY (BLACK)	18
9	⚠ 1-451-265-11	DEFLECTION YOKE (SY-167)	
10	⚠ 1-540-032-11	INLET 2P	
11	1-544-011-11	SPEAKER	
12	4-309-369-00	SPACER, DEFLECTION YOKE	
13	4-390-307-01	COVER, CONNECTOR (WHITE)	
	4-390-307-11	COVER, CONNECTOR (BLACK)	

SECTION 8 ELECTRICAL PARTS LIST
D BOARD: Page 33–35

*A-1345-837-A D BOARD, COMPLETE
****

*1-508-766-00 PIN, CONNECTOR (5MM PITCH) 4P
*1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P
*1-533-189-11 HOLDER, FUSE
~~*1-560-123-00 PLUG, CONNECTOR (2.5MM) 3P~~
*1-564-505-11 PLUG, CONNECTOR 2P

C813	1-106-347-00	MYLAR	0.0015MF	10%	200V
C815	1-136-165-00	FILM	0.1MF	5%	50V
C817	1-130-983-00	FILM	1.5MF	10%	100V
C818	1-102-112-00	CERAMIC	330PF	10%	50V
C820	1-108-812-11	MYLAR	0.047MF	5%	50V
C821	1-124-499-11	ELECT	1MF	20%	50V
~~C891~~	~~1-126-233-11~~	~~ELECT~~	~~22MF~~	~~20%~~	~~50V~~
~~C892~~	~~1-124-798-11~~	~~ELECT~~	~~1MF~~	~~20%~~	~~160V~~
~~C893~~	~~1-130-800-00~~	~~FILM~~	~~2.2MF~~	~~10%~~	~~250V~~
L803	⚠ 1-410-328-21	INDUCTOR	10UH		
L804	⚠ 1-421-329-31	COIL, CHOKE			
L805	⚠ 1-459-370-12	COIL, FERRITE (HLC)			
L806	⚠ 1-459-597-11	COIL, VARIABLE			
~~L891~~	~~1-459-109-00~~	~~COIL,DUST CORE~~			

Q652	8-729-178-55	TRANSISTOR 2SC2785-E			
Q653	⚠ 8-729-178-55	TRANSISTOR 2SC2785-E			
Q654	⚠ 8-729-400-81	TRANSISTOR 2SD1266-Q			
Q801	8-729-119-80	TRANSISTOR 2SC2688-LK			
Q802	8-729-201-62	TRANSISTOR 2SC2555-2			
Q803	8-729-178-55	TRANSISTOR 2SC2785-E			
~~Q891~~	~~8-729-906-24~~	~~TRANSISTOR 2SD835~~			

REF.NO.	PART NO.	DESCRIPTION				REMARK
R815	1-249-439-11	CARBON	68K	5%	1/4W	
R819	1-215-857-11	METAL OXIDE	10	5%	1W	F
R820	1-215-890-11	METAL OXIDE	470	5%	2W	F
⚠R821	⚠	METAL			1/6W	
⚠R822	⚠	METAL			1/6W	
R823	1-249-421-11	CARBON	2.2K	5%	1/4W	
~~R891~~	~~1-247-895-00~~	~~CARBON~~	~~470K~~	~~5%~~	~~1/4W~~	
~~R892~~	~~1-249-437-11~~	~~CARBON~~	~~47K~~	~~5%~~	~~1/4W~~	
~~R893~~	~~⚠ 1-247-713-91~~	~~CARBON~~	~~1K~~	~~5%~~	~~1/4W~~	~~F~~
~~R894~~	~~1-249-417-11~~	~~CARBON~~	~~1K~~	~~5%~~	~~1/4W~~	
R895	1-249-439-11	CARBON	68K	5%	1/4W	