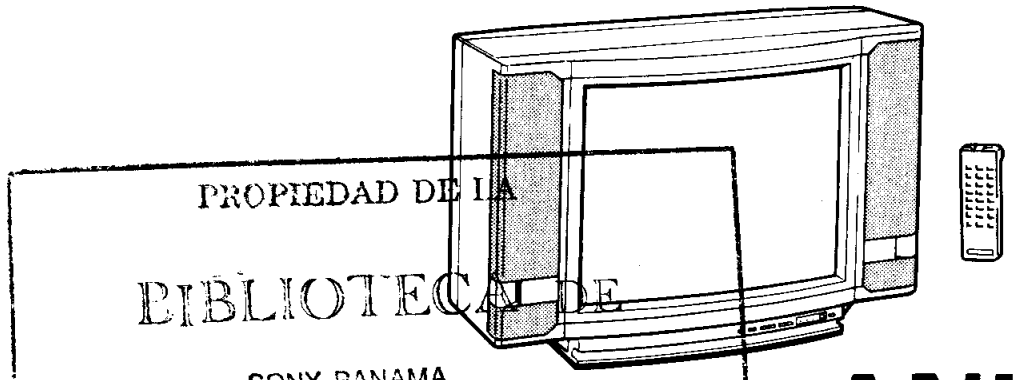
105-040

KV-27HSR10
RM-763

SERVICE MANUAL

US Model
Chassis No. SCC-C59C-A
Canadian Model
Chassis No. SCC-C60C-A



PROPIEDAD DE LA
BIBLIOTECA DE
SONY PANAMA
FECHA: 7-2-96 LOCALIDAD: .....

ANU-1 CHASSIS

Note: The service manual for RM-763 has been issued separately.

MODELS OF THE SAME SERIES	
KV-27HSR10	KV-32HSR10
KV-27XBR10/27XBR60	
KV-32XBR10/32XBR70	

SPECIFICATIONS

Television system American TV standards

Channel coverage VHF: 2–13
UHF: 14–69
Cable TV: 1–125

Picture tube Microblack Trinitron tube
27-inch picture measured diagonally
29-inch picture tube measured diagonally

Antenna 75-ohm external antenna terminal for VHF/UHF

Input VIDEO 1, 2 and 3 IN
S VIDEO IN (4-pin mini DIN)
Y: 1 Vp-p, 75-ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75-ohms
Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative
Audio (phono jacks): 500 mVrms (100% modulation)
Impedance: 47 kilohms

Output MONITOR OUTPUT
S VIDEO OUTPUT (4-pin mini DIN)
Y: 1 Vp-p, 75-ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal) 75-ohms
Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative
Audio (phono jacks): 500 mVrms (100% modulation)
Impedance: 10 kilohms

AUDIO OUTPUT (VARIABLE) (phono jacks)
More than 408 mVrms at the maximum volume setting (variable)
Impedance: 5 kilohms

Power requirements 120V AC, 60Hz

Power consumption 225W (max.)
1.5W (in standby condition)

Accessories supplied
Remote Commander RM-763 with 4 size AA (R6) bateries (1)
Antenna connector (1)

Optional accessories
U/V mixer EAC-66
Connecting cable
VMC-810/820S
YC-15V/30V
Video rack
SU-235X (with super-woofer)
SU-235X (with super-woofer)
SU-251 (black)
SU-330 (black)

Design and specifications are subject to change without notice.

MICROFILM

TRINITRON® COLOR TV
SONY®

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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 ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.
LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, 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 DONT LE 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 COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SAFETY CHECK-OUT
(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
   Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60–100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

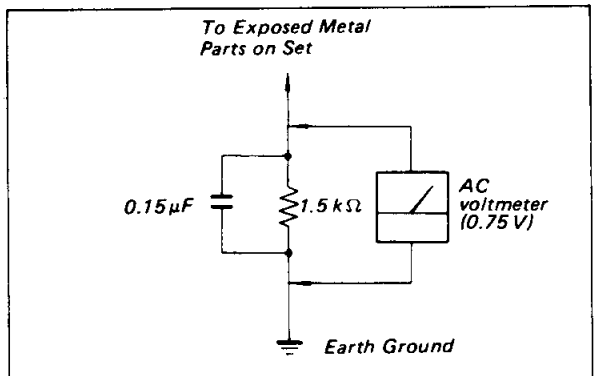


Fig. A. Using an AC voltmeter to check AC leakage.

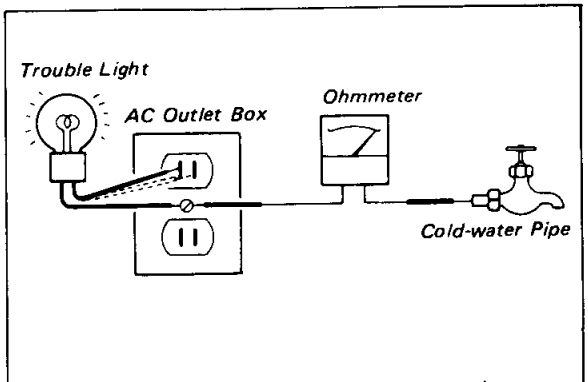
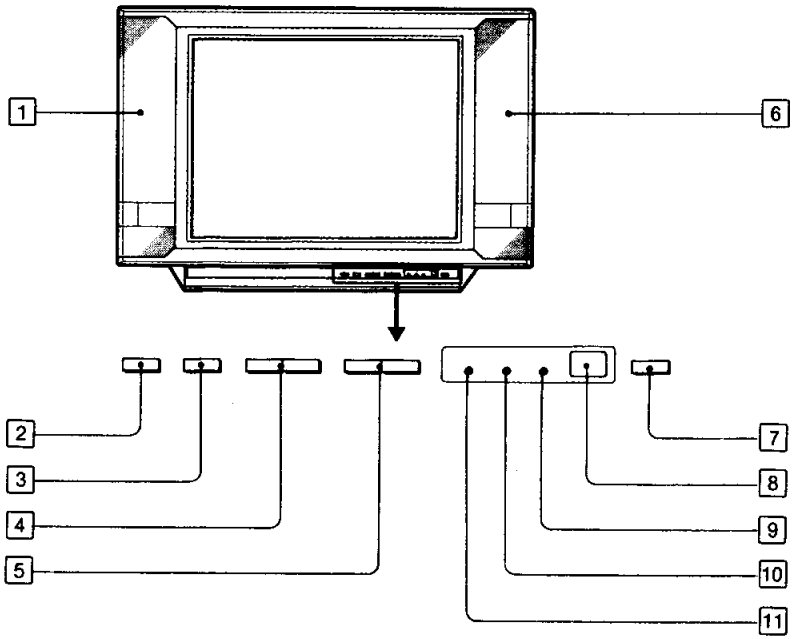


Fig. B. Checking for earth ground.

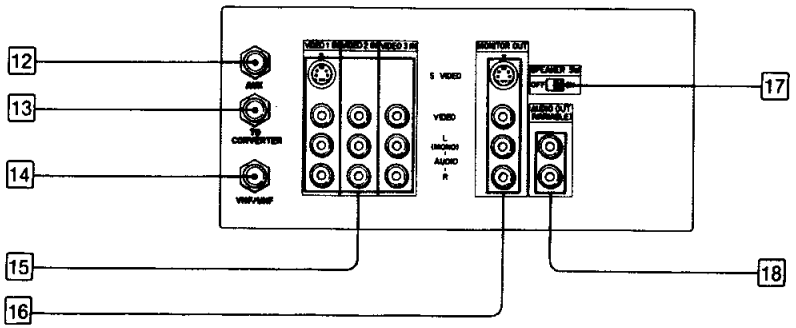
SECTION 1
GENERAL

1-1. LOCATION OF CONTROLS

Front panel



Rear panel



[1] Left speaker (tweeter and woofer)

[2] (●) SRS (Sound Retrieval System) button

[3] TV/VIDEO button

[4] VOLUME buttons

[5] CHANNEL buttons

[6] Right speaker (tweeter and woofer)

[7] POWER switch

[8] Remote sensor

[9] SLEEP indicator

[10] STEREO indicator

[11] TIMER indicator

[12] AUX (auxiliary) terminal

[13] TO CONVERTER terminal

[14] VHF/UHF antenna terminal

[15] VIDEO 1, 2, 3 IN jacks (phono jacks)

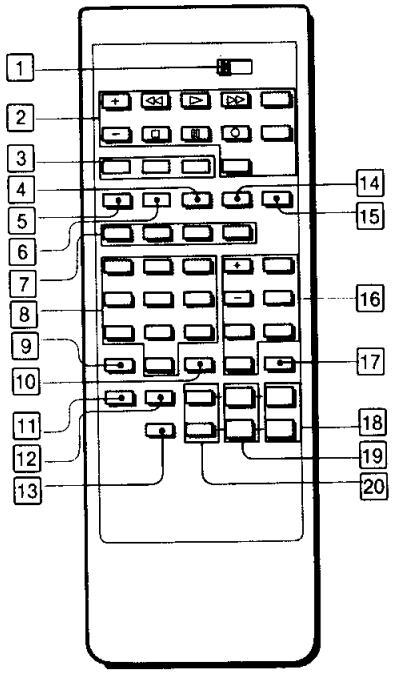
[16] MONITOR OUT jacks (phono jacks)

[17] SPEAKER SW (switch)

[18] AUDIO OUT (VARIABLE) jacks (phono jacks)

Remote Commander RM-763

The buttons with * mark have the same function as the buttons with the same or similar mark on the TV.



1 VTR 1/2/3/MDP (multi disc player) selector

2 Sony VCR/multi disc player operation buttons

3 Channel presetting buttons

4 ANT/AUX (antenna/auxiliary) button

5 MUTING button

6 CABLE button

7 Input select buttons (TV, VIDEO 1, VIDEO 2, VIDEO 3)*

8 Channel number buttons

9 DISPLAY button

10 ENTER button

11 TIME button

12 MTS (multichannel TV sound) button

13 SRS (sound retrieval system) button*

14 SLEEP button

15 POWER button*

16 A/V WINDOW (audio and video adjusting) buttons

17 JUMP button

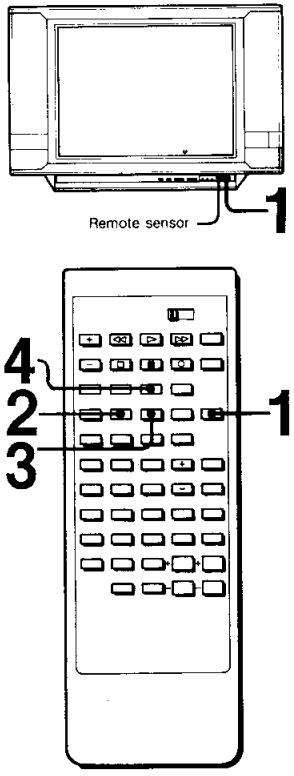
18 CH (channel) scan buttons*

19 VOL (volume) control buttons*

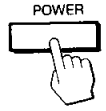
20 PICTURE buttons

1-2. PRESETTING TV CHANNELS

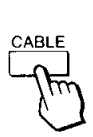
To Preset All Receivable Channels Automatically

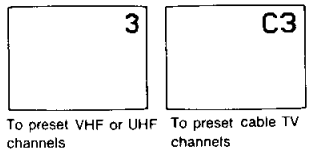


1 **Press POWER on the TV or the Remote Commander to turn the TV on.**



2 **Press CABLE so that the appropriate mode appears.**

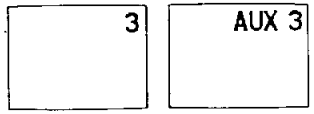




To preset VHF or UHF channels

To preset cable TV channels

3 **Press ANT/AUX according to the channel to be preset.**



To preset VHF, UHF or regular cable TV channels

To preset pay cable TV channels

4 **Press AUTO PGM.**

"AUTO PROGRAM" is displayed on the screen and receivable channels (other than the channels already preset) will be preset in numerical sequence. The channels previously preset remain in the unit's memory.
When no more channels can be found, the programming stops and the lowest numbered channel is displayed.

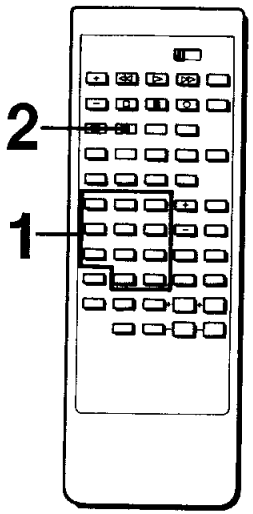
Receivable channels of this TV are:
VHF: 2-13
UHF: 14-69
Cable: 1-125

To add the channels that could not be preset with automatic programming because their signal strength was too weak, or **to erase unnecessary channels.**
Follow the steps in "To preset only the desired channels or to erase unnecessary channels" on the next page.

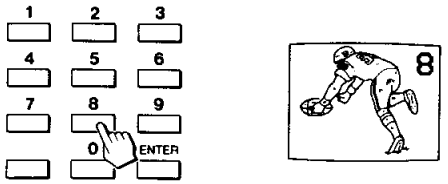
To check preset channels
Press CH +/−.

If the indication "VIDEO 1, VIDEO 2, VIDEO 3" is displayed on the screen
Press the TV/VIDEO button on the TV or the TV button on the Remote Commander so that a channel number appears.

To Preset Only the Desired Channel or to Erase Unnecessary Channels



1 Press the channel number button(s) and then ENTER to select the channel to be added or erased.



2 To add channels — Press ADD.

A "+" appears for a moment.
This channel has now been added to the channel scan memory.

To erase channels — Press ERASE.

A "–" appears for a moment.
This channel has now been erased from the channel scan memory. The next time the CH +/– button is pressed, this channel will be skipped.

Repeat steps 1 and 2 for other channels to be added or erased.

When a VHF or UHF channel is erased
The cable TV channel with the same number is also erased and vice versa.

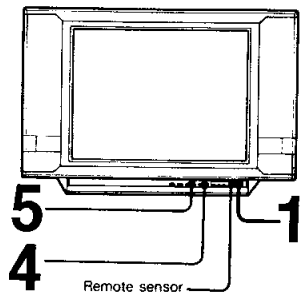
Cable TV channel chart*
Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to the chart below.

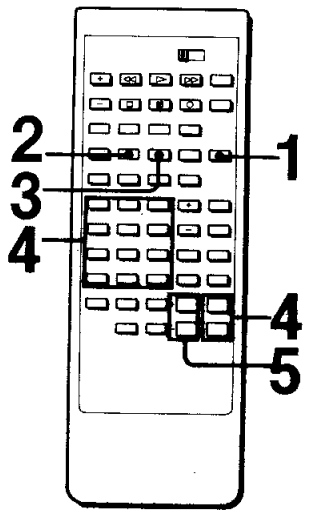
Number on this TV	1	5	6	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Corresponding CATV channel	A–8	A–7	A–6	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q

31	32	33	34	35	36	37	38	39	.....	93	94	95	96	97	98	99	100	101	102	.....	123	124	125
R	S	T	U	V	W	W+1	W+2	W+3	.....	W+57	W+58	A–5	A–4	A–3	A–2	A–1	W+59	W+60	W+61	.....	W+82	W+83	W+84

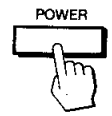
Check with your local cable TV company for more complete information on the available channels.

*The designation of the cable TV channels conforms to the EIA/NCTA recommendation.

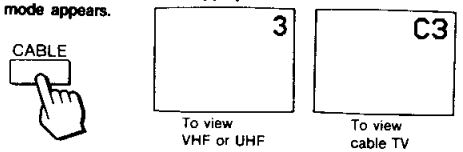




1 Press POWER on the TV or the Remote Commander to turn the TV on.



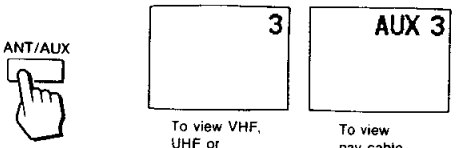
2 Press CABLE so that the appropriate mode appears.



To view VHF or UHF channels

To view cable TV channels

3 Press ANT/AUX according to the channel to be watched.

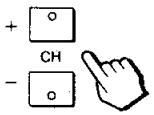


To view VHF, UHF or regular cable TV channels

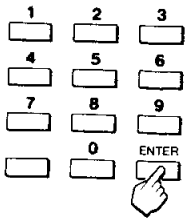
To view pay cable TV channels

4 Select a channel in one of the following two ways:

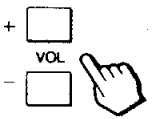
To scan the preset channels in numerical sequence, press CH +/–.



To select a channel directly, press the channel number button(s) and then ENTER. For example, to select channel 10, press 1,0 and ENTER.



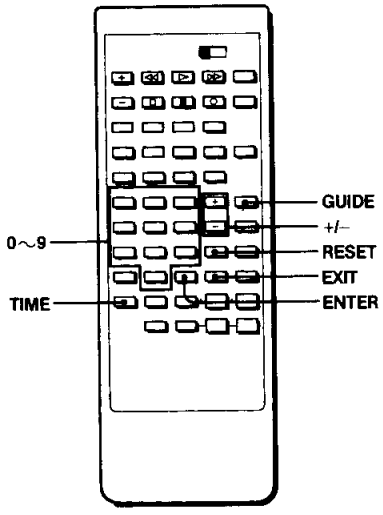
5 Press VOL + or – to adjust the volume.



1-4. USING THE GUIDE FUNCTION

The GUIDE function calls up the on-screen menu and instructions on how to set the current time, timer, channel block.

Buttons used for GUIDE function

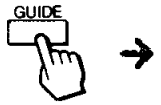


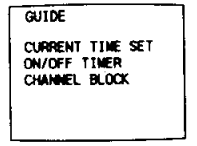
- All setting will be erased from the unit's memory if the unit is unplugged, or if a power failure occurs.
- The ON/OFF TIMER and CHANNEL BLOCK will operate only if the clock is set correctly.

Setting the Clock

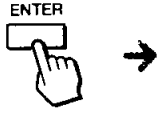
Example: To set the clock to 5:30 PM, Monday.

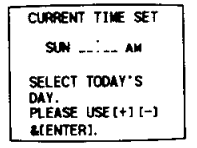
1 **Press GUIDE.**
Press repeatedly until "CURRENT TIME SET" turns red.



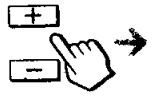


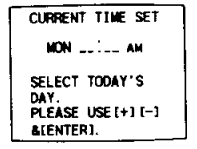
2 **Press ENTER.**



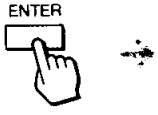


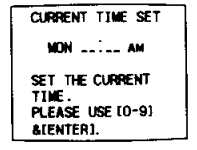
3 **Press +/– until the desired day of the week appears.**



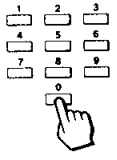


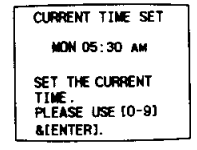
4 **Press ENTER.**
If the time is already set, the current set time will appear. To clear these numbers, press any number.



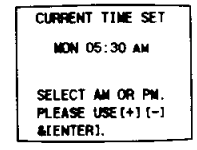


5 **Press 0–9 to set the desired time.**
(For 5:30, press 0,5,3,0)

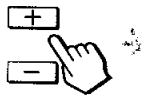


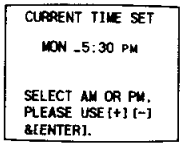


6 **Press ENTER.**

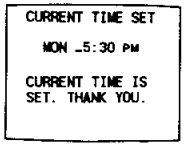


7 **Press +/– to set AM or PM.**





8 **Press ENTER.**
The moment ENTER is pressed, the clock will start.
Now, the clock is set. The indication will disappear after approx. 5 seconds.



To restore the normal picture
Press EXIT.

To clear the current time setting
Display the "CURRENT TIME SET" page and press RESET, then EXIT.

To reset the setting
Display the "CURRENT TIME SET" page and press RESET, then repeat steops 3 to 8.

To display the current time
Press TIME.

Notes
- The internal clock of this TV operates on a 12-hour cycle. If a 24-hour cycle number is entered, it will be cleared when ENTER is pressed.

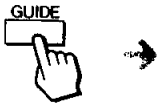
12:00 AM stands for midnight.
12:00 PM stands for noon.

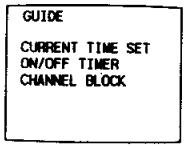
Setting the ON/OFF Timer

ON/OFF TIMER allows the program of your choice to appear on the screen at the desired time.

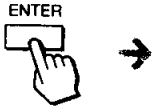
Example: Set the timer to turn on the TV to channel 8 at 1:00 PM for 3 hours every Monday through Friday.

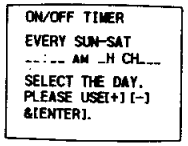
1 **Press GUIDE.**
Press repeatedly until "ON/OFF TIMER" turns red.



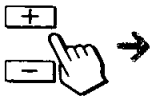


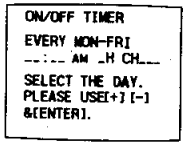
2 **Press ENTER.**
If the clock has not been set, "PLEASE SET CURRENT TIME FIRST" appears on the screen. Go back to page 26.



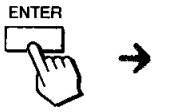


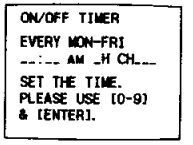
3 **Press +/– until the desired day of the week appears.**



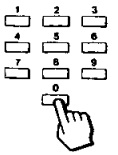


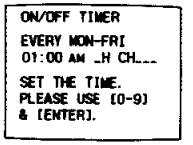
4 **Press ENTER.**



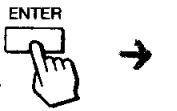


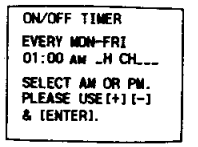
5 **Press 0–9 to set the desired time.**
(For 1:00, press 0,1,0,0.)



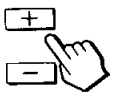


6 **Press ENTER.**





7 **Press +/- to set AM or PM.**

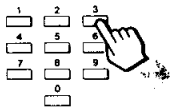



```
ON/OFF TIMER
EVERY MON-FRI
01:00 PM _H CH___
SELECT AM OR PM.
PLEASE USE[+][-]
& [ENTER].
```

8 **Press ENTER.**

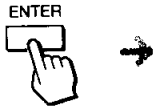
```
ON/OFF TIMER
EVERY MON-FRI
01:00 PM _H CH___
SET THE DURATION.
PLEASE USE [0-9]
& [ENTER].
```

9 **Press a number button to set the duration.**
(Up to 9 hours can be set).



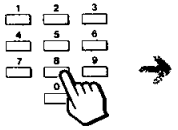

```
ON/OFF TIMER
EVERY MON-FRI
01:00 PM 3H CH___
SET THE DURATION.
PLEASE USE [0-9]
& [ENTER].
```

10 **Press ENTER.**



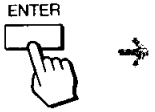

```
ON/OFF TIMER
EVERY MON-FRI
01:00 PM 3H CH___
SET THE CHANNEL
PLEASE USE [0-9]
& [ENTER].
```

11 **Press 0-9 to set the desired channel number.**




```
ON/OFF TIMER
EVERY MON-FRI
01:00 PM 3H CH__8
SET THE CHANNEL
PLEASE USE [0-9]
& [ENTER].
```

12 **Press ENTER.**
Now ON/OFF timer is set.
The TIMER indicator on the TV lights up.




```
ON/OFF TIMER
EVERY MON-FRI
_1:00 PM 3H CH__8
ON/OFF TIMER IS
SET. THANK YOU.
```

Setting the Channel Block

CHANNEL BLOCK prevents a channel from appearing on the screen for preset hours. We suggest you use this function to prevent children from watching undersirable programs.

Example: Set the CHANNEL BLOCK at 4:00 PM (for 1 hour), every Saturday, at channel 12.

1 **Press GUIDE.**
Press repeatedly until "CHANNEL BLOCK" turns red.

```
GUIDE
CURRENT TIME SET
ON/OFF TIMER
CHANNEL BLOCK
```

Step **2-11**: Same as Setting the ON/OFF Timer.
(See page 28.)

12 **Press ENTER.**
Now CHANNEL BLOCK is set.
At the preset time, the picture of the selected channel will be blocked from view and the sound will be muted. A red "BLOCKED" indication will appear on the screen while the channel is blocked.

```
CHANNEL BLOCK
EVERY SATURDAY
 4:00 PM 2H CH_12
CHANNEL BLOCK IS
SET. THANK YOU.
```

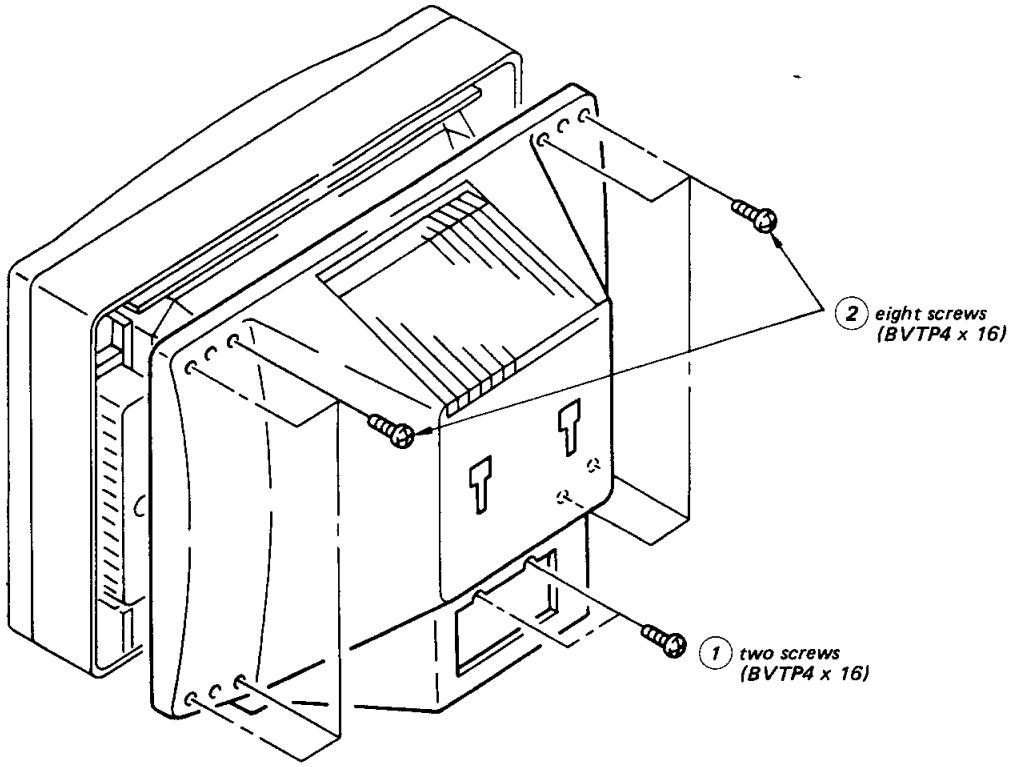
To restore the normal picture
Press EXIT.

To clear the setting
Display the "CHANNEL BLOCK" page and press RESET, then EXIT.

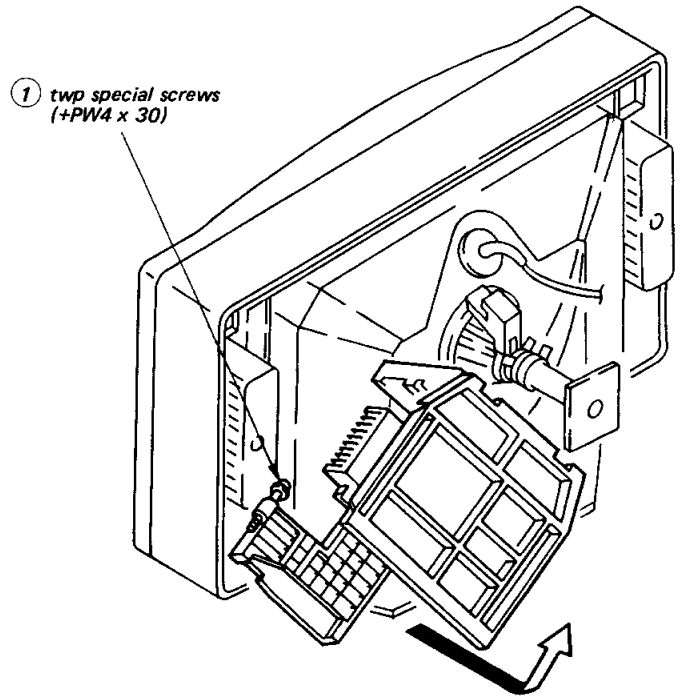
To reset the setting
Display the "CHANNEL BLOCK" page and repeat steps from the beginning.

SECTION 2
DISASSEMBLY

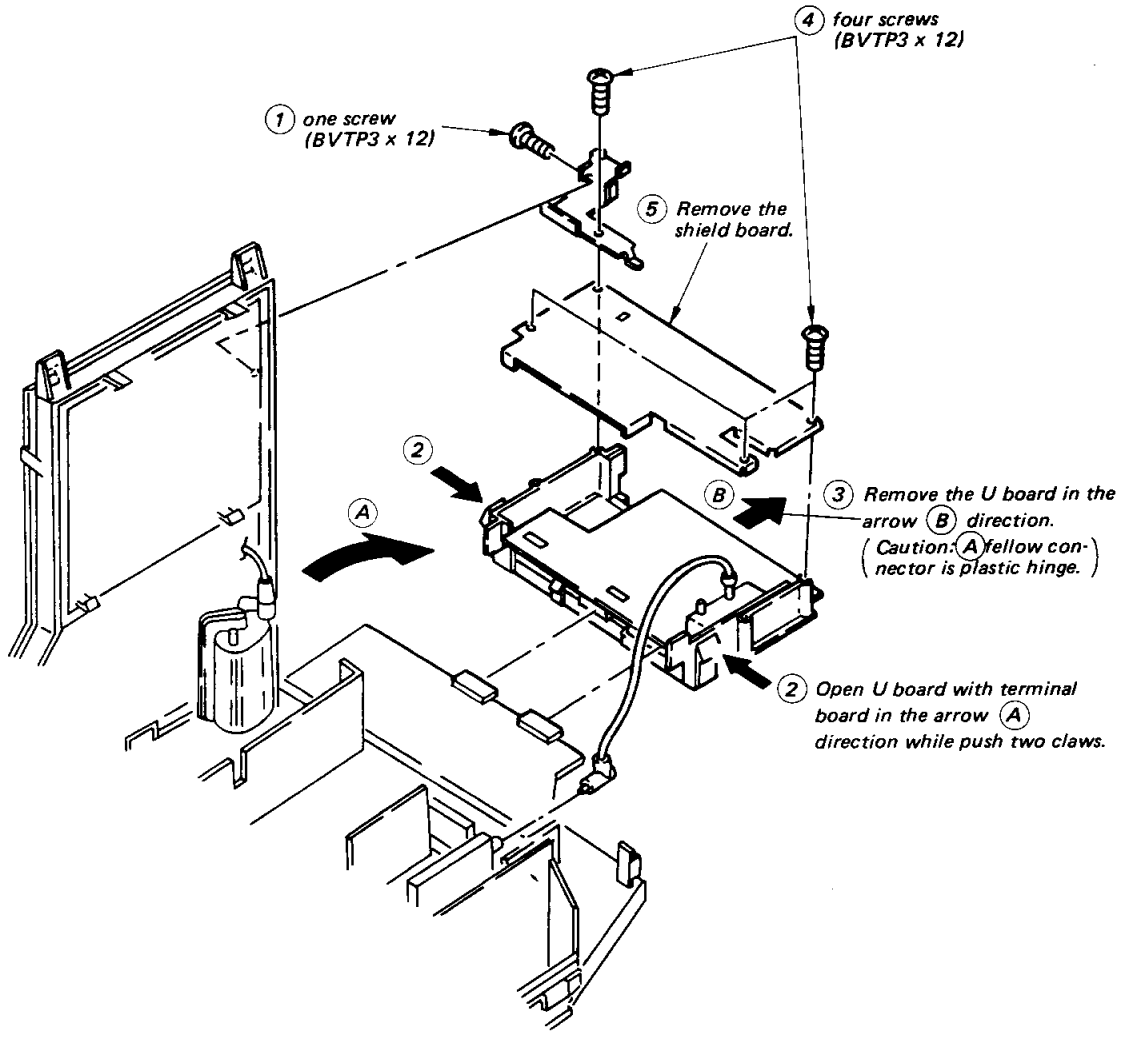
2-1. REAR COVER REMOVAL



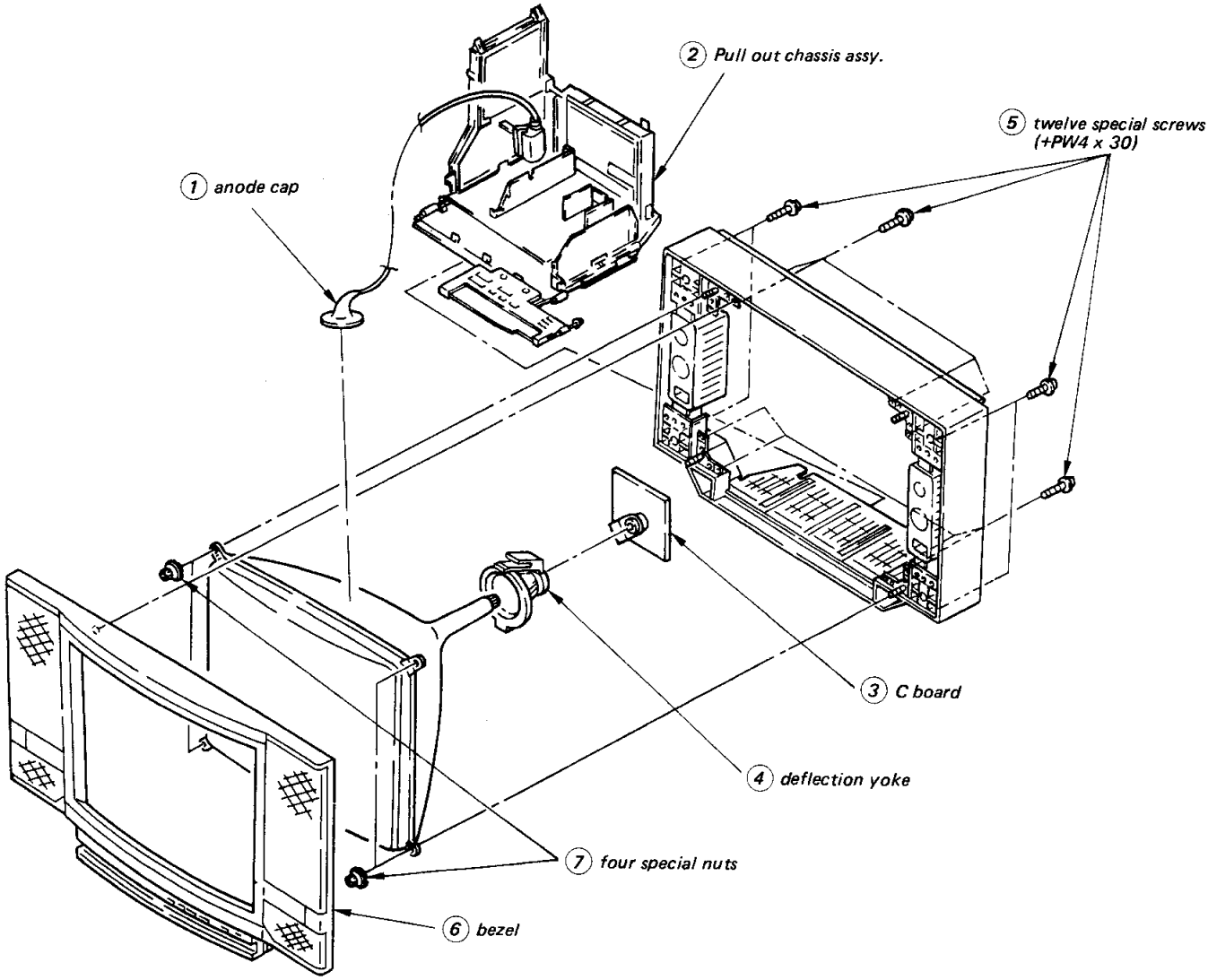
2-2. SERVICE POSITION



2-3. U BOARD REMOVAL



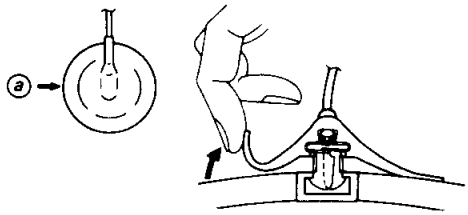
2-4. PICTURE TUBE REMOVAL



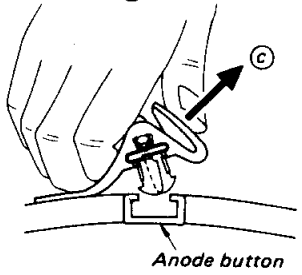
2-5. REMOVAL OF ANODE CAP

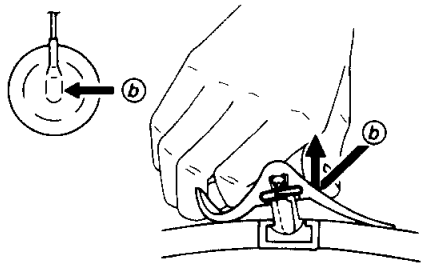
ANODE CAP REMOVAL

- **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.

The control and switch below should be set as follows unless otherwise noted :

PICTURE control ····· normal
BRIGHTNESS control ····· normal

Perform the adjustments in order as follows :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color Bar Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter

Preparation :

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

3-1. BEAM LANDING

1. Input a raster signal with the pattern generator.
2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig. 2.
3. Turn the raster signal of the pattern generator to red.
4. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides, evenly. (Fig. 3.)
5. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig. 1.)
6. Switch over the raster signal to blue and green and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
8. When landing at the corners is not right, adjust by using the magnet. (Fig. 4.)

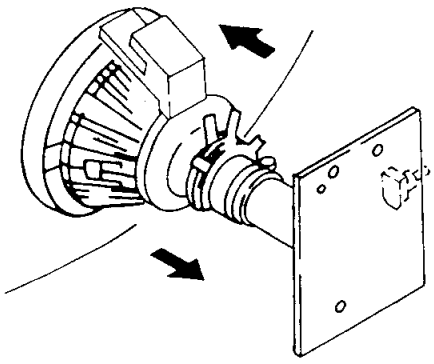


Fig. 1.

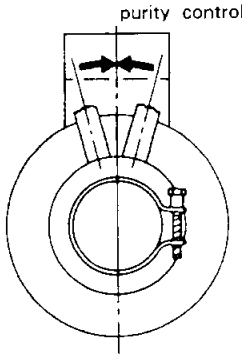


Fig. 2.

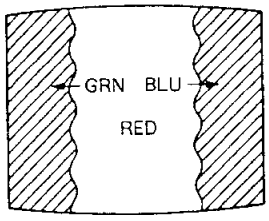


Fig. 3.

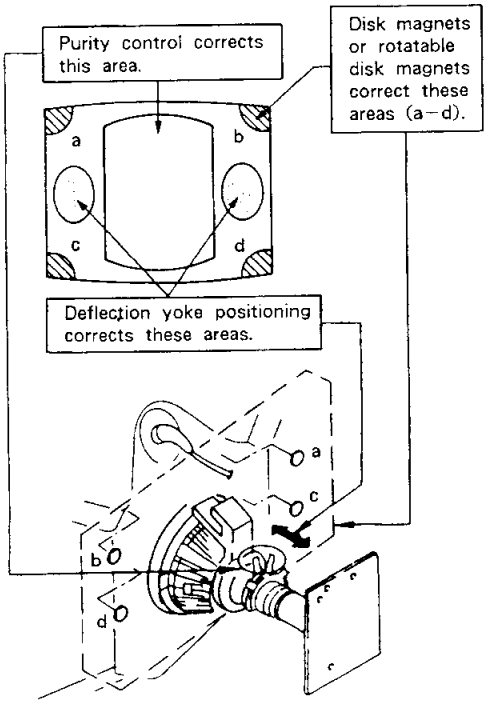


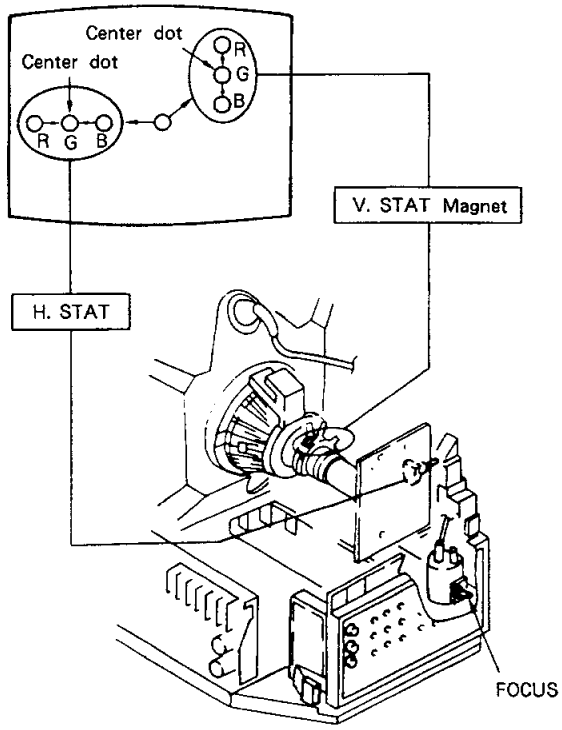
Fig. 4.

3-2. CONVERGENCE

Preparation :

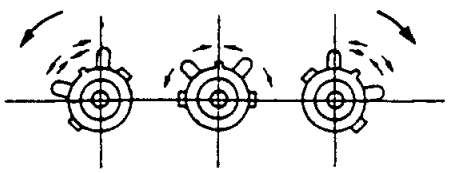
- Before starting, perform FOCUS, H. SIZE, V. LIN and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

(1) Horizontal and Vertical Static Convergence

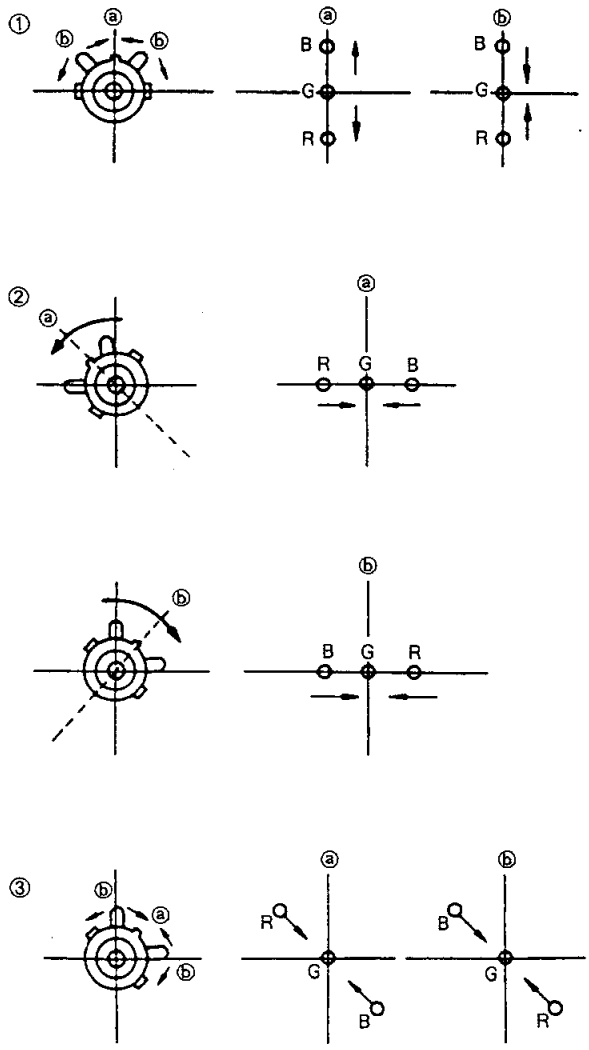


1. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen. (Horizontal movement)
2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen. (Vertical movement)
3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, 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.



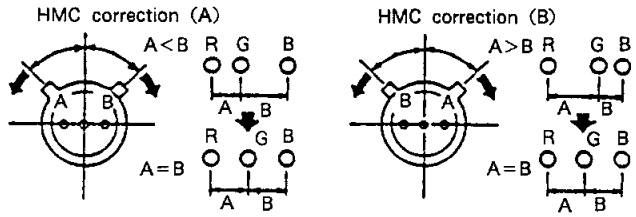
4. When the V. STAT magnet is moved in the direction of arrow ⓐ and ⓑ, red, green and blue dots move as shown below.



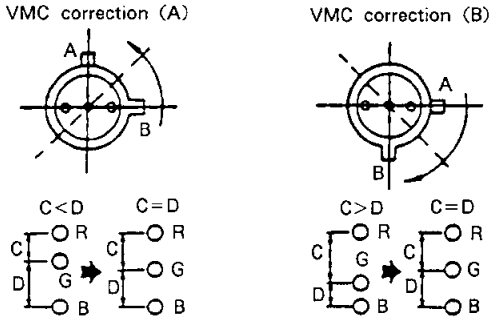
If the blue dot do not coincide with red and green dots, perform following steps.

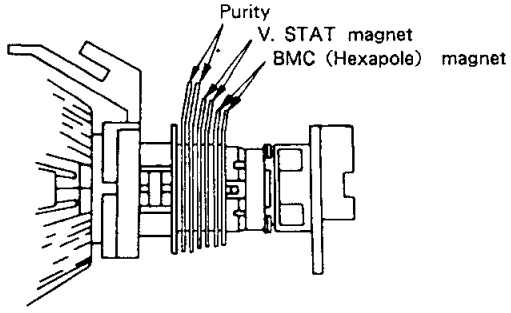
- **HMC and VMC correction for BMC (Hexapole) Magnet**

1. HMC (Horizontal, Mis, convergence) correction and motion of the Electron Beam with the BMC Magnet.



2. VMC (Vertical, Mis, convergence) correction and motion of the Electron Beam with the BMC Magnet.



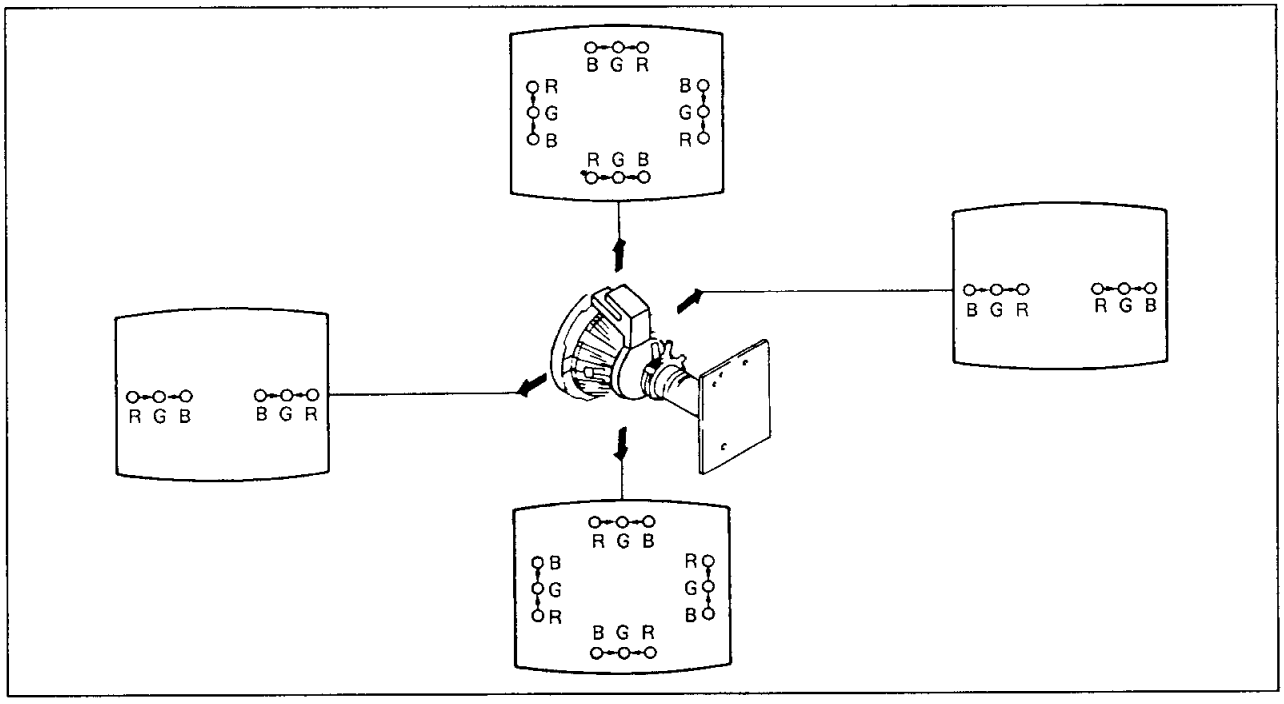


(2) Dynamic Convergence Adjustment

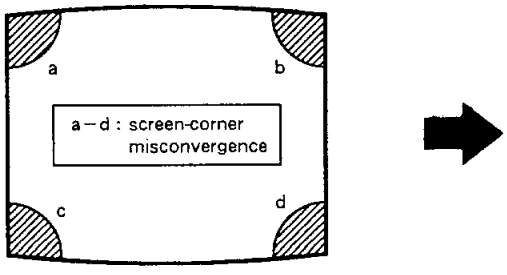
Preparation :

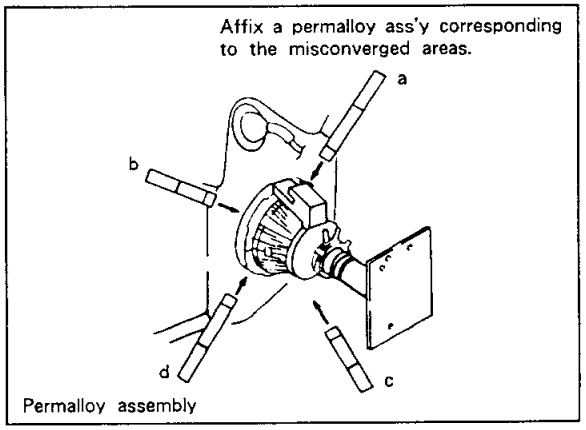
- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



(3) Screen-corner Convergence





3-3. FOCUS

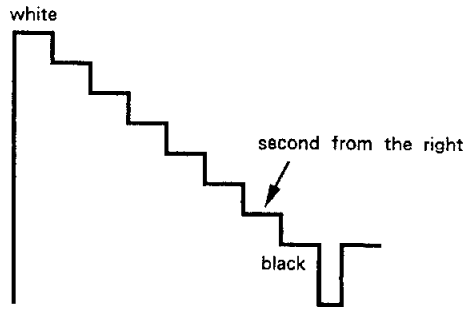
1. Tune in an off-air signal.
2. PICTURE → control to normal.
3. Adjust the focus VR on A board so that the focus at the center of the screen is optimum.
   A magenta ring will appear if the focus is adjusted only in the center of the screen. Adjust evenly throughout the entire screen.

3-4. G2, WHITE BALANCE ADJUSTMENTS (Using the remote commander)

1. CUT OFF (G2) ADJUSTMENT (RV701)
   1) Set the PICTURE and BRIGHT to normal.
   2) Confirm G1 voltage within 30.0 ±5 V.
   3) Apply DC voltage of 180 V to the cathodes of R, G and B from DC stabilized power source.
   4) While watching the picture, adjust the G2 volume (RV701) immediately before the fly-back line disappears.

2. WHITE BALANCE ADJUSTMENT
   1) Set to service mode.
   2) Press [VIDEO] →[RESET] to normal.
   3) Receive an entire white signal.
   4) Set the PICTURE to minimum.
   5) Select S BRT with [1] and [4], and then set the level to minimum with [3] and [6].
   6) Select G CUT and B CUT with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
   7) Set the PICTURE to maximum.
   8) Select G AMP and B AMP with [1] and [4], and adjust the level with [3] and [6] for the best white balance.

3. SUB BRIGHT ADJUSTMENT
   1) Set to service mode.
   2) Receive a stairs wave of black and white from the pattern generator.
   3) BRIGHT ····· normal
      PICTURE ····· minimum
   4) Select S BRT with [1] and [4], and adjust SUB BRIGHT level with [3] and [6] so that the stripe second from the right is dimly lit.



SECTION 4
SAFETY RELATED ADJUSTMENT

⋈ R567, CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

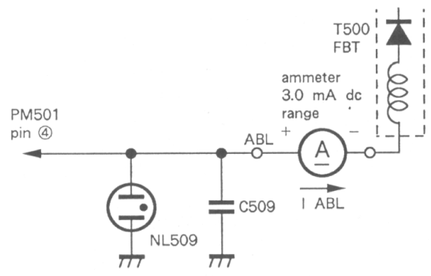
The following adjustments should always be performed when replacing the following components (marked with ◪ on the schematic diagram).
IC301, IC653, PM501, D539, C556, R556, R564, R567, R663, T500

1. Preparation before confimation
   1) Turn the POWER switch ON, and receive entirely white signals and set the PICTURE and BRIGHT controls to maximum.
   2) Confirm that the voltage of the check terminal of pin ② of F-5 (F BOARD) is more than 127.0 V DC when the set is operating normally with 120.0 ±2.0 V AC supply.
2. Hold-down operation confirmation
   1) Turn the POWER switch ON, and receive entirely white signals and adjust ABL current to 1620 ±50 μA with PICTURE and BRIGHT etc controls.
   2) Apply DC voltage of over 140.0 V gradually to the check terminal of pin ② of F-5 (F BOARD) via 1T40 from the DC stabilized power source. Confirm that the minimum voltage is less than 145.0 V DC whereby the raster disappears during operation of hold-down circuit.
      NOTE : When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.
   3) Turn the POWER switch ON, and receive dot signals and adjust ABL current to 150 ±20 μA with PICTURE and BRIGHT etc controls.
   4) Apply DC voltage of over 140.0 V gradually to the check terminal of pin ② of F-5 (F BOARD) via 1T40 from the DC stabilized power source. Confirm that the minimum voltage is less than 145.0 V DC whereby the raster disappears during operation of hold-down circuit.
      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 R567 (a component marked with ⋈).

⋈ R549, CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with ◪ on the schematic diagram).
IC301, PM501, R549, R564

1. Preparation before confimation
   1) Remove R663 on the F board and connect a variable resistor (RV1 : about 4.7 kΩ to 10 kΩ) between pin ① of IC653 and B+ line.
   2) Supply 120 ±2.0 V AC to with variable auto-transformer.
2. Hold-down operation confirmation
   1) Turn the POWER switch ON, and receive entirely white signals and adjust ABL current to 1620 ±50 μA with PICTURE and BRIGHT etc controls.
   2) Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is less than 142.5 V DC whereby the raster disappears during operation of hold-down circuit.
      NOTE : When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.
   3) Turn the POWER switch ON, and receive dot signals and adjust ABL current to 150 ±20 μA with PICTURE and BRIGHT etc controls.
   4) Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is less than 144.0 V DC whereby the raster disappears during operation of hold-down circuit.
      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 R549 (a component marked with ⋈).

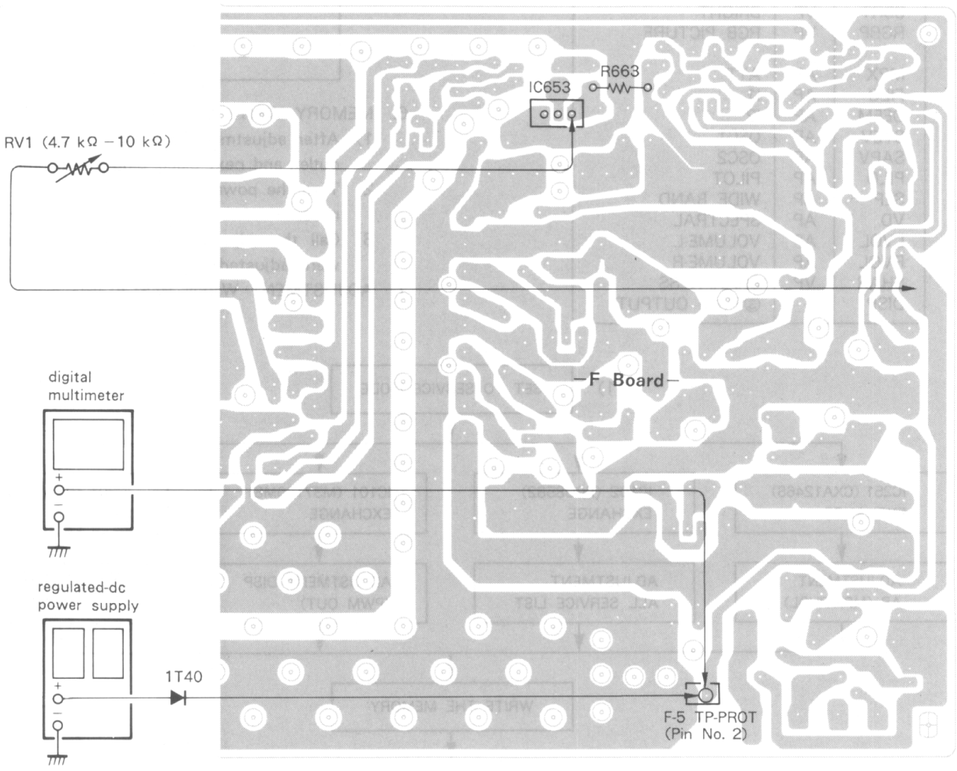


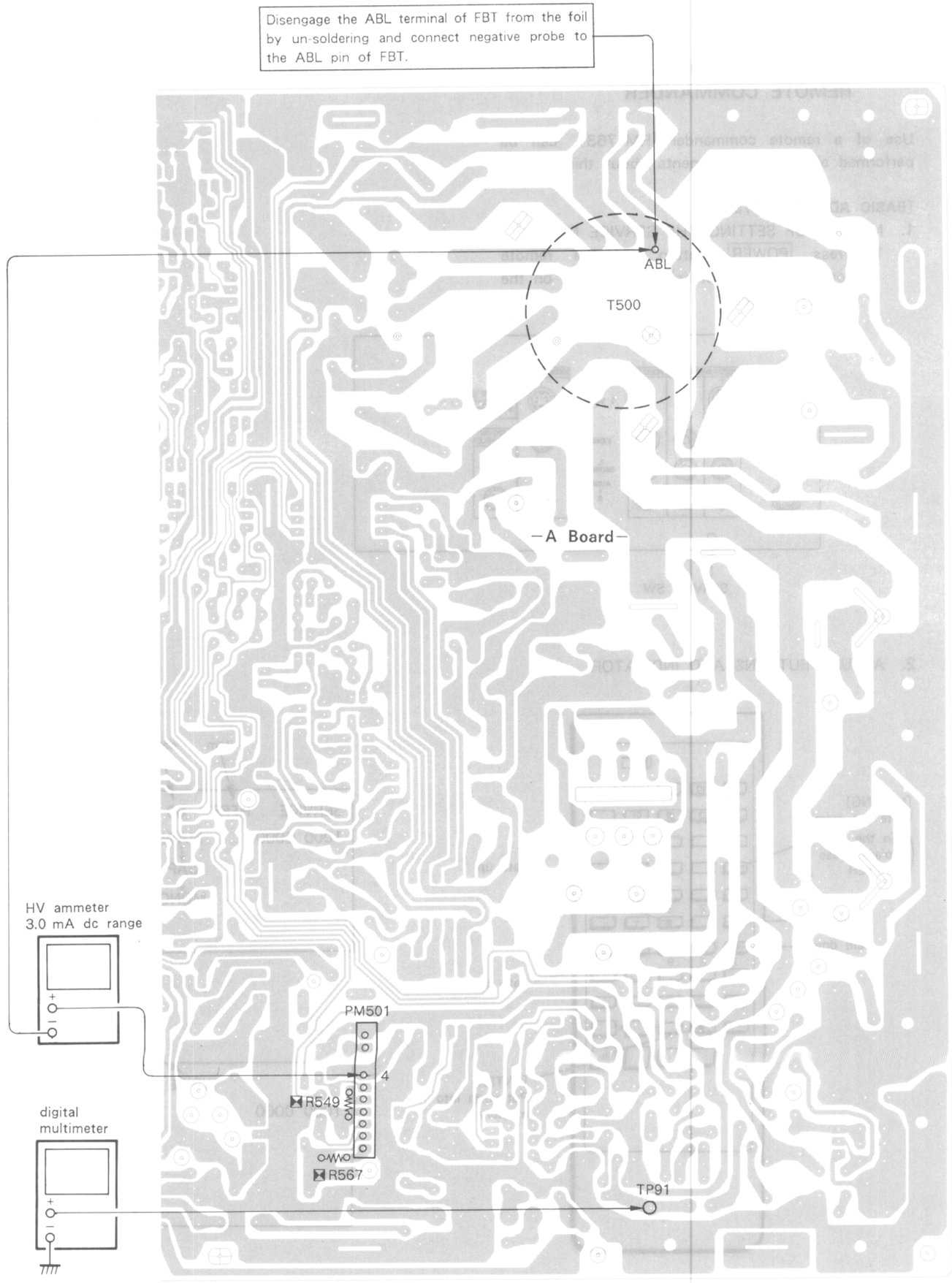
*Use a digital multimeter whose input impedance over 100 MΩ when confirming the voltage of the protector terminal.

B+ VOLTAGE CONFIRMATION

The following adjustments should always be performed when replacing IC653 and R663.

1. The B+ voltage confirmation
   1) Supply 130 $^{+1.0}_{0}$ V AC to with variable auto-transformer.
   2) Receive entirely monoscope signals.
   3) Set the PICTURE control and the BRIGHT control into initial reset.
   4) Confirm the voltage of TP91 is less than 137.0 V DC.
   5) If step 4) is not satisfied, replace IC653 and R663 repeat above steps.




Disengage the ABL terminal of FBT from the foil by un-soldering and connect negative probe to the ABL pin of FBT.
ABL
T500
—A Board—
HV ammeter
3.0 mA dc range
PM501
4
R549
R567
digital
multimeter
TP91

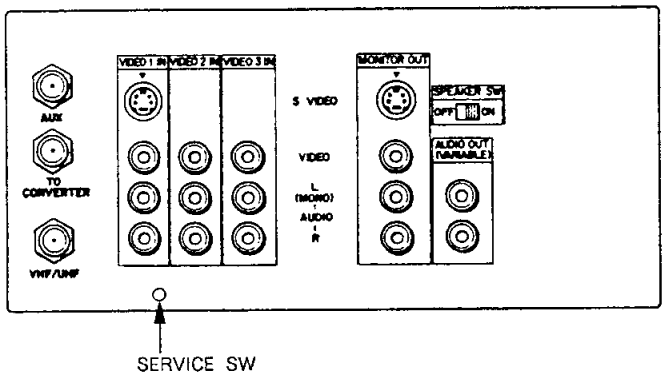
SECTION 5
CIRCUIT ADJUSTMENTS

5-1. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

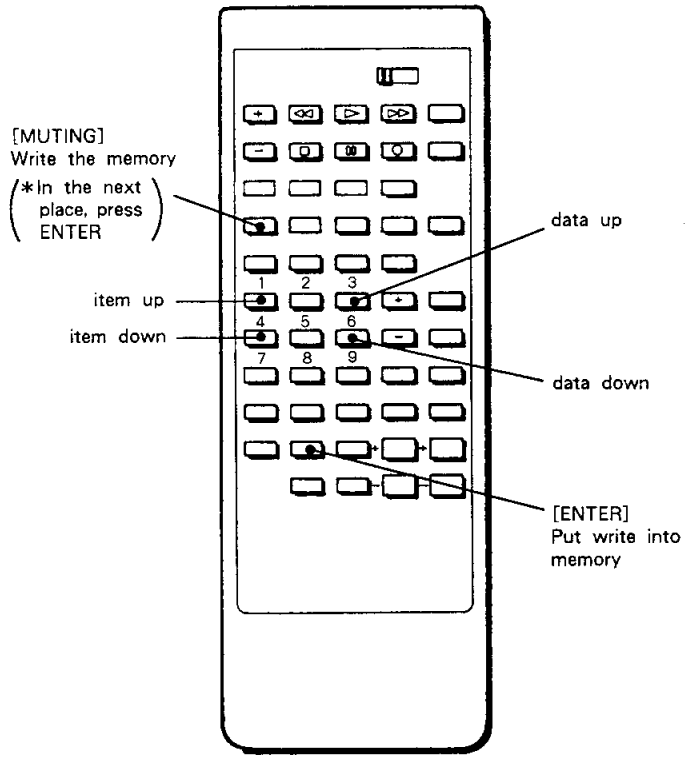
Use of a remote commander (RM-763) can be performed all circuit adjustments about this model.

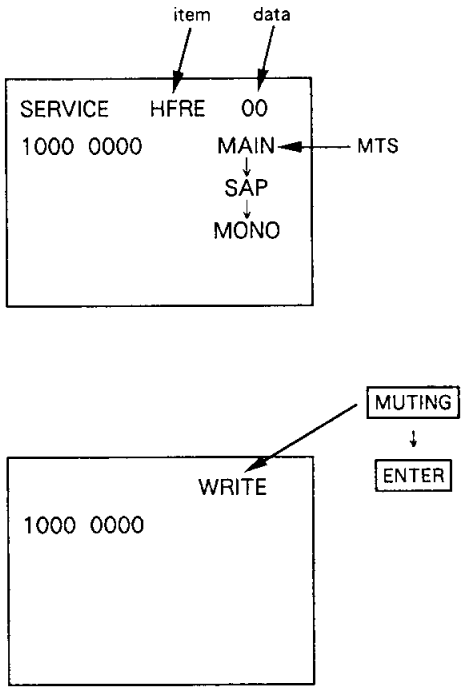
[BASIC ADJUSTMENTS]

1. METHOD OF SETTING THE SERVICE MODE
   1) Press [POWER] button on the remote commander while pressing the switch on the rear of the set.



2. ADJUST BUTTONS AND INDICATOR





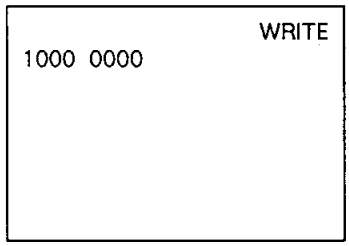
3. AN ITEM OF ADJUSTMENTS

ITEM	NAME REGISTER	
HFRE	VP	H-FREQUENCY
VFRE	VP	V-FREQUENCY
VPOS	VP	V-SHIFT
VSIZ	VP	V-SIZE
VLIN	VP	V-LINEARITY
VSCO	VP	S-CORRECTION
HPOS	VP	H-PHASE
HSIZ	VP	H-SIZE
PAMP	VP	PIN AMP.
CPIN	VP	CORNER PIN
PPHA	VP	PIN PHASE
VCOM	VP	V-COMP.
GAMP	VP	GREEN AMP.
BAMP	VP	BLUE AMP.
GCUT	VP	GREEN CUTOFF
BCUT	VP	BLUE CUTOFF
CROM	VP	CHROMA TRAP
SPIX	VP	PICTURE
SHUE	VP	HUE
SCOL	VP	COLOR
SBRT	VP	BRIGHT
RGBP	VP	RGB PICTURE
MPX	AP	ATT
FILO	AP	I1
DEEM	AP	I2
STEV	AP	OSC1
SAPV	AP	OSC2
PILO	AP	PILOT
SEP	AP	WIDE BAND
VD	AP	SPECTRAL
LVOL	AP	VOLUME-L
RVOL	AP	VOLUME-R
SHAR	VP	SHARPNESS
DISP		③PWM OUTPUT

4. METHOD OF CANCELLATION FROM SERVICE MODE

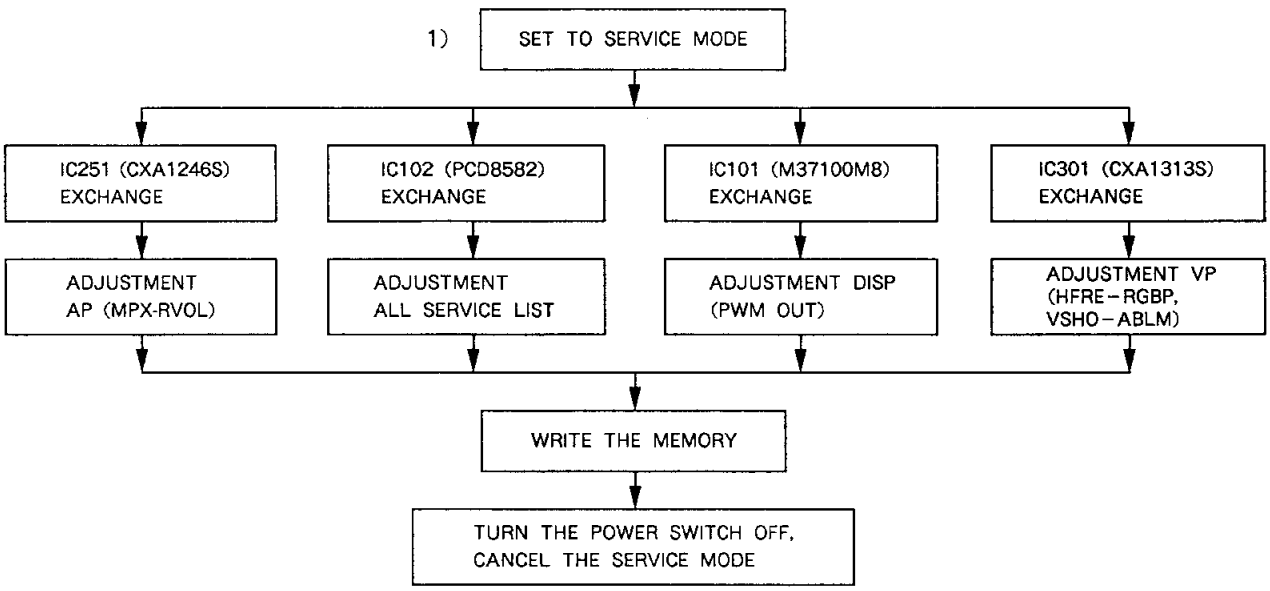
Set to standby condition (Press [POWER] button on the commander). In the next place, press [POWER] button again, hereupon it becomes TV mode.

5. METHOD OF WRITE FOR MEMORY
   1) Set to service mode.
   2) Press [1] (UP) and [4] (DOWN), select an item of adjustments.
   3) Press [MUTING] button to indicate WRITE (RED) on screen.
   4) Press [ENTER] button to write for memory. (At this time, WRITE (YELLOW) is indicated on screen.)



6. MEMORY WRITE CONFIRMATION METHOD
   1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
   2) Turn the power switch ON and set to service mode.
   3) Call the adjusted items again, confirm they were adjusted.

7. ADJUSTMENT WHEN REPLACING IC



NOTE : If service mode is canceled before write for memory, the adjustment data is not recorded.
Please write for memory certainly after adjustment.

2) The following first setting should always be performed when replacing the IC102 (PCD8582).

ITEM	NAME REGISTER		ADJUSTMENT
VSMO	VP	VSMO	0
AFC	VP	AFC 1.0	0
REF	VP	REF 1.0	2
ROFF	VP	OFF NR	1
GOFF	VP	OFF NG	1
BOFF	VP	OFF NB	1
ABLM	VP	ABLM	1
TEST	AP	T	0
DRGB	VP	DRGB	1

* Please write the memory each items by [MUTING] → [ENTER].

5-2. CIRCUIT ADJUSTMENTS

[RF AGC ADJUSTMENT (IF BLOCK VR)]

1) Receive a color-bar signal.
2) Adjust AGC VR of IF201 so that snow noise and cross-modulation disappear from the picture.
3) Confirm them at every channel.

[H. FREQUENCY ADJUSTMENT]

1) Set to service mode.
2) Receive a color-bar signal.
3) Connect a frequency counter to base of Q502.
4) Call the item of AFC, set to 3 level (free run).
5) Select HFRE with [1] and [4].
6) Adjust [3] and [6] to the 15,735 ±60 Hz level.
7) Call the item of AFC again, adjust the level "00".
8) Write the memory by [MUTING] → [ENTER].

[V. FREQUENCY ADJUSTMENT]

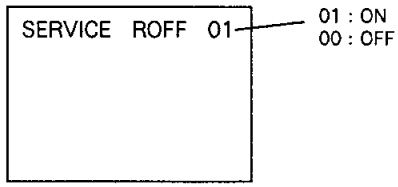
1) Set to service mode.
2) Receive an off-air signal (VIDEO IN → no signal).
3) Connect the frequency counter across pin ⑥ of A-81 connector and ground.
4) Select VFRE with [1] and [4].
5) Adjust [3] and [6] to 55 ±1 Hz.
6) Write the memory by [MUTING] → [ENTER].

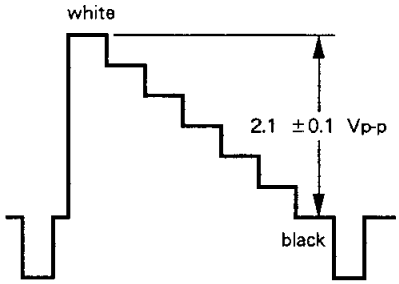
[CHROMA TRAP ADJUSTMENT]

1) Set to service mode.
2) Receive a color-bar signal.
3) Select NOTCH (VIDEO condition), turn "ON" by [+]. And then set the COLOR VR to maximum setting and SHARPNESS control to center.
4) Connect an oscilloscope to TP47R (R OUT) on C board.
5) Select C ROM with [1] and [4], and then adjust 3.58 MHz (CHROMA) ingredient is minimum with [3] and [6].
6) Write the memory by [MUTING] → [ENTER].
7) Set NOTCH to OFF, and make normal condition with [VIDEO] → [RESET].

[SUB CONTRAST ADJUSTMENT]

1) Set to service mode.
2) Receive a color-bar signal. (75 IRE)
3) PICTURE ····· MAX
   COLOR ····· MIN
   R OFF ····· ON
   G OFF ····· OFF
   B OFF ····· OFF
   Press [VIDEO] → [−] (L) (It becomes minimum).
   Select [3] (ON) and [6] (OFF) with [1] and [4].



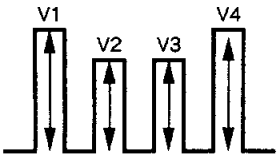


4) Connect an oscilloscope to TP47R (R OUT) on C board.
5) Adjust [3] and [6] to the 2.1 ±0.1 Vp-p level by select SPIX with [1] and [4].
6) Write the memory by [MUTING] → [ENTER].
7) Return normal after adjustment.
   G OFF ····· ON
   B OFF ····· ON
   COLOR ····· CENTER
   PICTURE ····· 80%

[SUB HUE, SUB COLOR ADJUSTMENT]

1) Receive a color-bar signal.
2) Press [VIDEO] → [RESET] to normal.

3) Set to service mode.
4) Connect an oscilloscope TP47B (B OUT) on C board.
5) Adjust [3] and [4] to become V1=V4 and V2=V3 by select to SHUE and SCOL with [1] and [4].



6) Write for memory by [MUTING] → [ENTER].

V. SIZE ADJUSTMENT

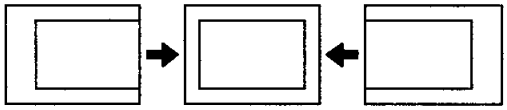
1) Set to service mode.
2) Receive a cross-hatch signal.
3) Adjust [3] and [6] to become best vertical size by select to VSIZ with [1] and [4].
4) Write for memory by [MUTING] → [ENTER].

H. SIZE ADJUSTMENT

1) Receive a cross-hatch signal.
2) Press [VIDEO] → [RESET] to normal.
3) Set to service mode.
4) Adjust [3] and [6] to become best horizontal size by select to HSIZ with [1] and [4].
5) Write for memory by [MUTING] → [ENTER].

H. CENTER ADJUSTMENT

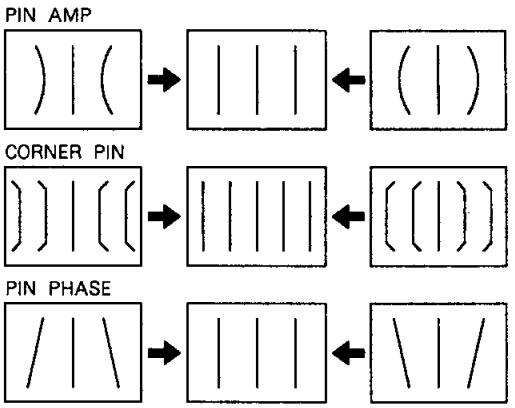
Note : Act this adjustment after H. FREQ adjustment.
1) Receive a cross-hatch signal.
2) Press [VIDEO] → [RESET] to normal.
3) Set to service mode.
4) Select to HPOS with [1] and [4].
5) Adjust [3] and [6] to become best picture.



6) Write for memory by [MUTING] → [ENTER].

PIN AMP, CORNER PIN AND PIN PHASE ADJUSTMENT

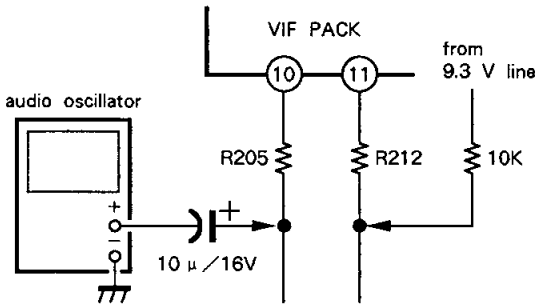
1) Receive a cross-hatch signal.
2) Press [VIDEO] → [RESET] to normal.
3) Set to service mode.
4) Select to PAMP, CPIN and PPHA with [1] and [4].
5) Adjust [3] and [6] to become best picture.



6) Write for memory by [MUTING] → [ENTER].

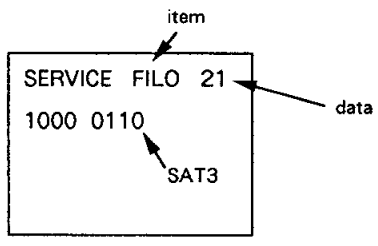
FILTER ADJUSTMENT

1) Set to service mode.
2) Select to TEST with [1] and [4], set the data to "1". Then select MPX and make data to "08".
3) Connect an audio oscillator to R205 via chemical capacitor (10 μF/16 V) and apply frequency of V_{4fH}. And then, apply DC volttage to R212 via resistor of 10 kΩ from 9.3 V line.



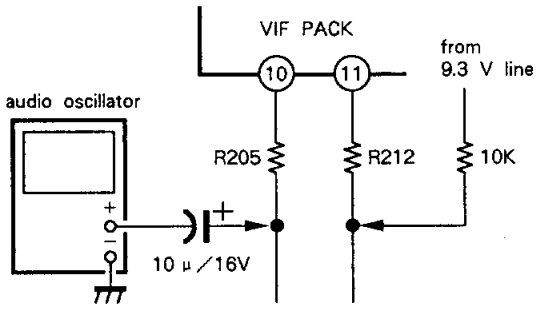
V_{4fH} : SINE-WAVE 62.936 kHz
LEVEL 3.0 Vp-p

4) make the data "00" by select to FILO with [1] and [4]. And then, send up the data gradually with press of [6], set the data to D1 before SAT3 changes 1 from 0.
5) Send up the data gradually, set the data to D2 when SAT3 changes 0 from 1.
6) Adjust the data of FILO to $\frac{D1 + D2}{2}$
7) Write for memory by [MUTING] → [ENTER].



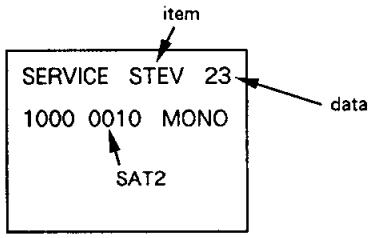
ST VCO ADJUSTMENT

1) Set to service mode.
2) Select to TEST with [1] and [4], set the data to "1". And then press [MTS] to MONO.
3) Select to MPX, set the data to "08".
4) Connect an audio oscillator to R205 via chemical capacitor (10 μF/16 V) and apply frequency of V_{ST}. And then, apply DC voltage to R212 via register of 10 kΩ from 9.3 V line.



V_{ST}: SINE-WAVE 15.734 kHz
LEVEL 0.28 Vp-p

5) Select STEV with [1] and [4], set the data to "00" with [6]. And then, send up the data gradually, set the data D1 before SAT2 changes 0 from 1.
6) Send up the data gradually, set the data to D2 when SAT2 changes 1 from 0.
7) Adjust the data of STEV to $\frac{D1 + D2}{2}$
8) Write for memory by [MUTING] → [ENTER].



MPX IN LEVEL ADJUSTMENT

1) Set to service mode.
2) Select to TEST with [1] and [4], set the data to "0" with [6]. And then press [MTS] to MONO.
3) Select to MPX with [1] and [4], set the data to "08" with [3] and [6].
4) Write for memory by [MUTING] → [ENTER].

PILOT CANCEL ADJUSTMENT

1) Set to service mode.
2) Select to TEST with [1] and [4], set the data to "0" with [6]. And then press [MTS] to MAIN.
3) Select to PILO with [1] and [4], set the data to "08" with [3] and [6].
4) Write for memory by [MUTING] → [ENTER].

SAP VCO fo ADJUSTMENT

1) Set to service mode.
2) Receive a stereo broadcast including SAP.
3) Select to TEST with [1] and [4], set to the data to "0". And then, press [MTS] to MAIN.
4) Connect a digital multimeter to pin ① of A-23 connector and this voltage agree upon V1.
5) Press [MTS] to SAP and this voltage agree upon V2.
6) Select to SAPV with [1] and [4], adjust [3] and [6] to become V2=V1 ±0.03 V DC.
7) Write for memory by [MUTING] → [ENTER].

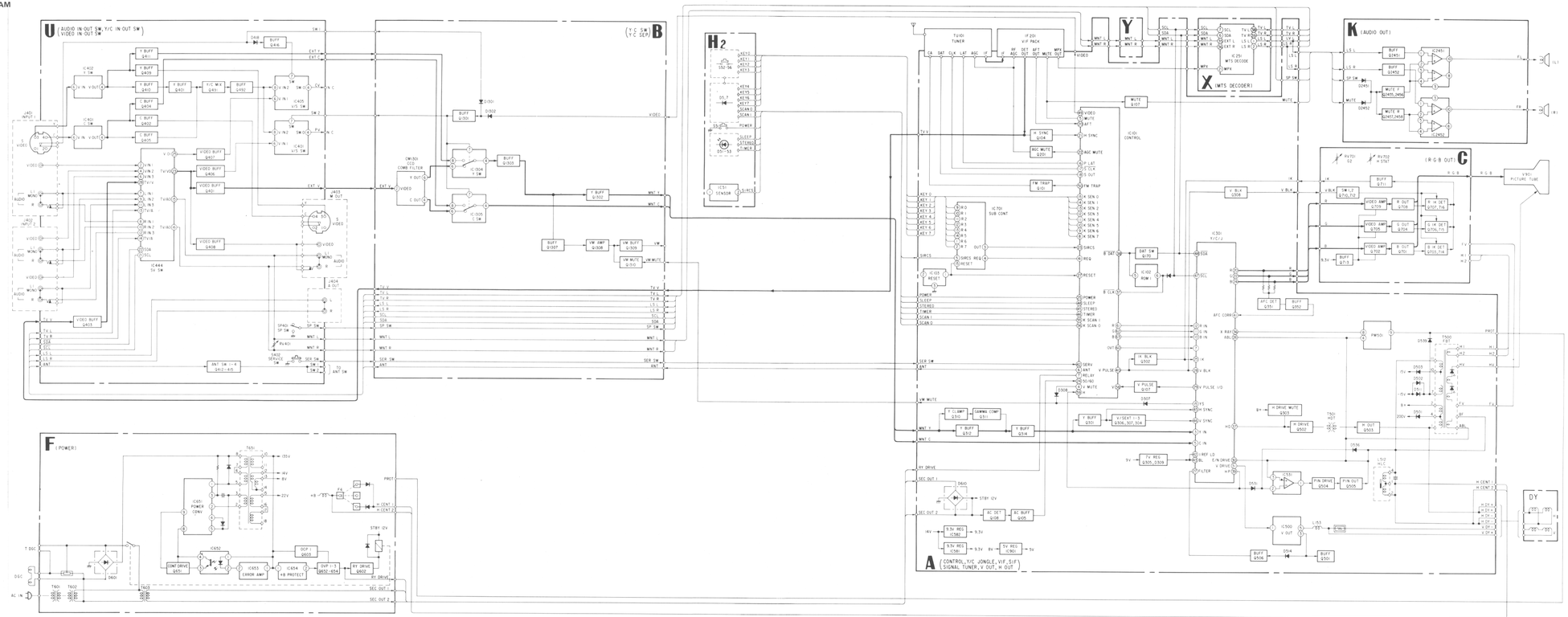
SEPARATION ADJUSTMENT

1) Set to service mode.
2) Press [MTS] to MAIN, and receive a monaural broadcast.
   In the next place, receive a stereo broadcast.
3) Select to SEP and VD with [1] and [4], adjust [3] and [6] to become to obtain stereo effects.

KV-27HSR10 RM-763 KV-27HSR10 RM-763

SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM



SBX - 8-741-591-01
~~682~~ 8-741-682-01

SECTION 7
EXPLODED VIEWS

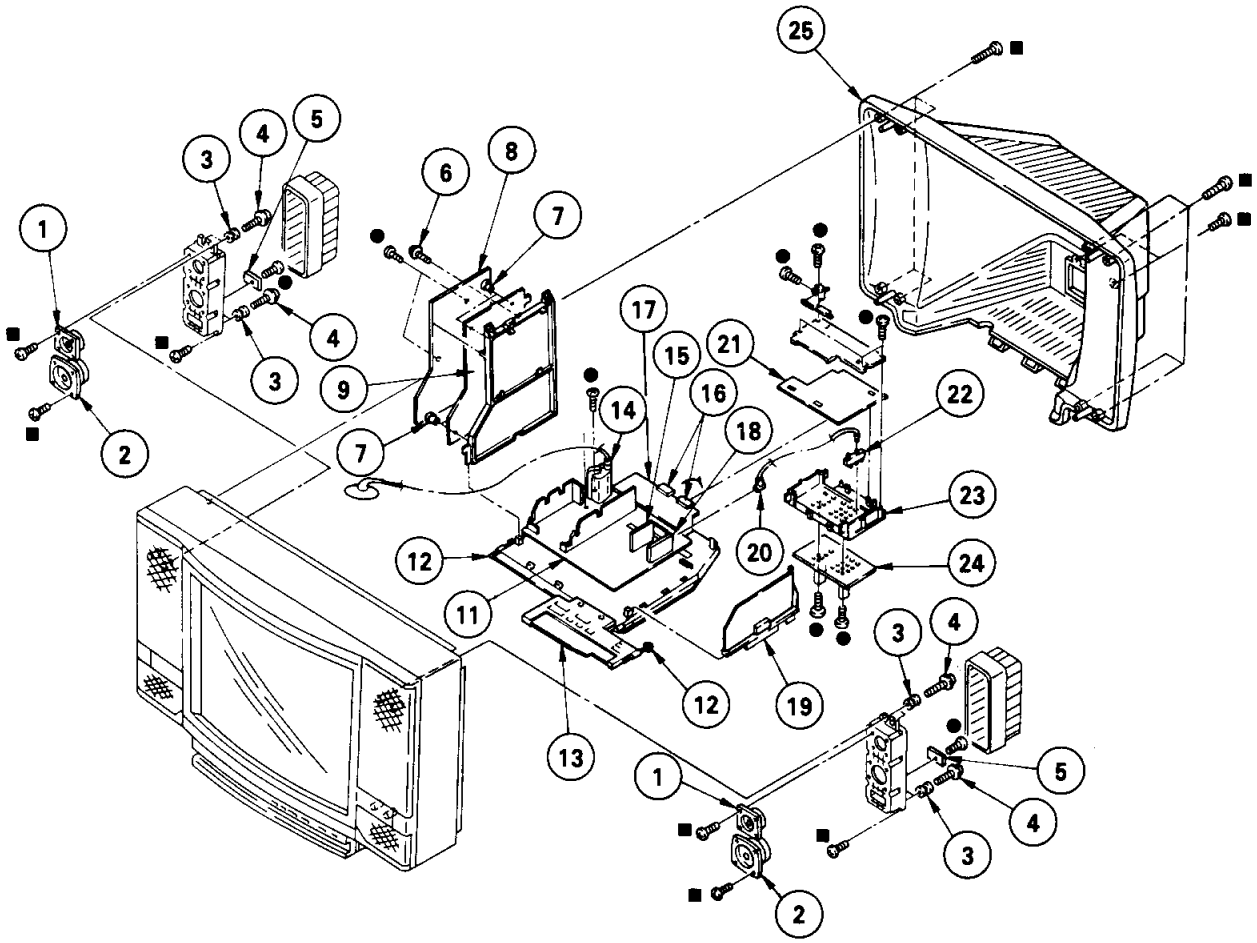
NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for 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.

7-1. CHASSIS

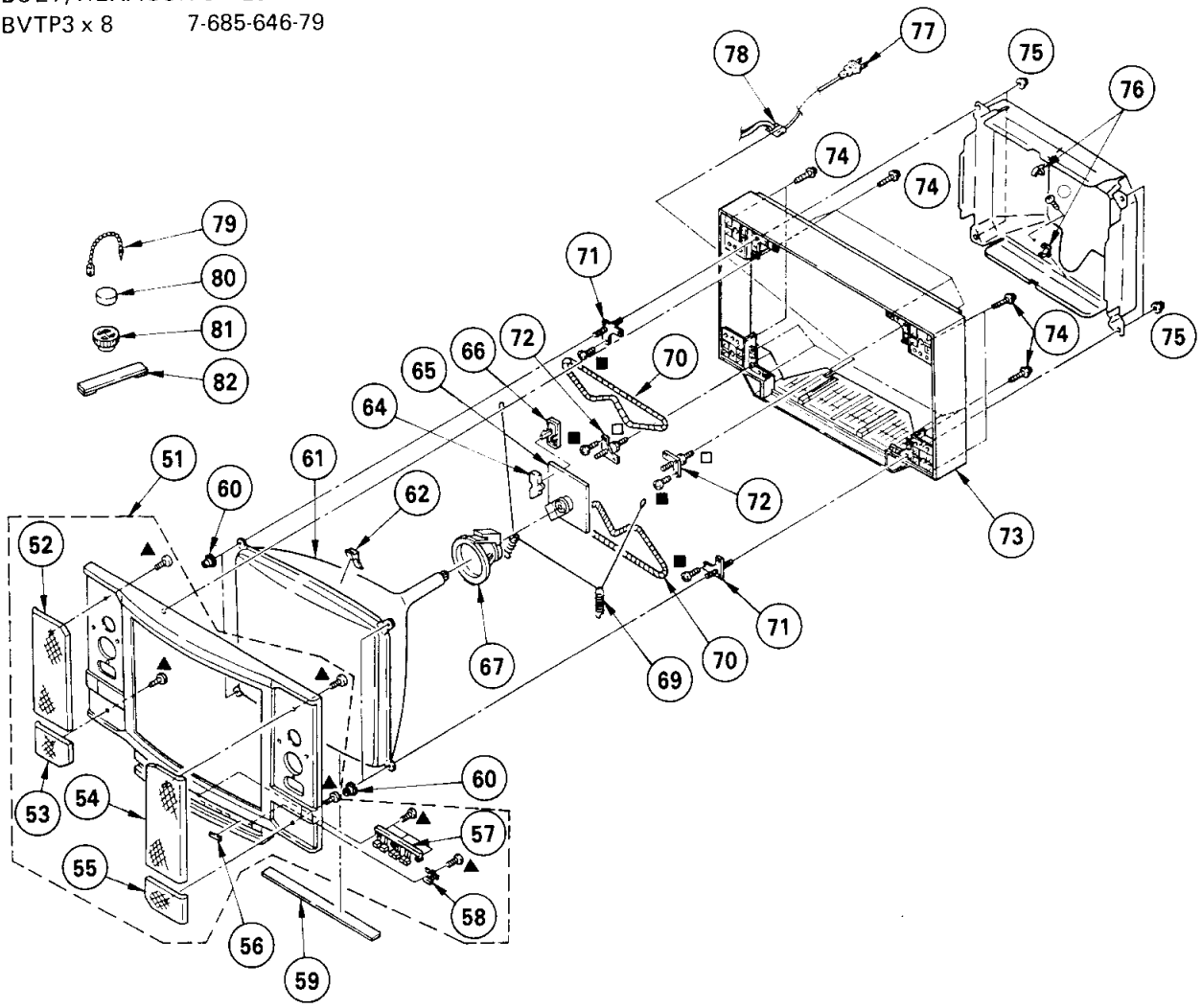
● : BVTP3 x 12 7-685-648-79
■ : BVTP4 x 16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	1-544-095-11	SPEAKER	
2	1-503-917-11	SPEAKER	
3	4-374-745-11	CUSHION (A)	
4	4-384-096-01	SCREW (4X16), TAPPING, +P	
5	*1-629-620-11	N BOARD	
6	4-388-477-01	SCREW (3X16), TAPPING	
7	3-531-576-31	RIVET (DIA. 3), NYLON	
8	*A-1245-453-A	F BOARD, COMPLETE	
9	*1-629-628-11	FO BOARD	
11	*A-1296-567-A	A BOARD, COMPLETE	15
12	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
13	*1-629-622-11	H2 BOARD	
14 ⚠	1-439-455-11	TRANSFORMER ASSY, FLYBACK (NX-2300)	
15	*1-629-624-11	X BOARD	
16	*1-568-507-11	CONNECTOR, BRIDGE 15P	
17	*A-1135-560-A	B BOARD, COMPLETE	
18 ⚠	1-463-771-11	TUNER, BT (BTP-201A)	
19	*A-1385-052-A	K BOARD, COMPLETE	
20	*1-556-945-21	CABLE, P-P	
21	*A-1394-173-A	U BOARD, COMPLETE	
22 ⚠	1-417-177-11	SELECTOR, ANTENNA (AS-1)	
23	4-393-419-01	TERMINAL BOARD, ANTENNA	
24	4-393-414-01	LABEL, ANTENNA	
25	4-393-629-01	COVER, REAR	

7-2. PICTURE TUBE

■ : BVTP4 x 16 7-685-663-79
▲ : BVTP3 x 16 7-685-650-79
□ : BOLT, HEXAGON 5 x 20 7-683-340-07
○ : BVTP3 x 8 7-685-646-79



REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4388-473-1	BEZEL ASSY	52-58
52	X-4388-467-1	GRILLE (LEFT UPPER) ASSY	
53	X-4388-468-1	GRILLE (LEFT LOWER) ASSY	
54	X-4388-465-1	GRILLE (RIGHT UPPER) ASSY	
55	X-4388-466-1	GRILLE (RIGHT LOWER) ASSY	
56	4-393-610-01	WINDOW, ORNAMENTAL	
57	4-393-617-01	BUTTON, MULTI	
58	4-393-613-01	BUTTON, POWER	
59	4-370-595-01	SHEET, BLOTTING	
60	4-376-980-01	NUT, SPECIAL, PICTURE TUBE	
61 ⚠	.8-737-753-05	PICTURE TUBE (A68JMT50X)	
62	3-703-961-01	SPACER, DY	
64	*4-379-167-01	COVER (MAIN), CV	
65	*A-1330-949-A	C BOARD, COMPLETE	
66	*4-379-160-01	COVER (REAR LID), CV	
67 ⚠	.1-451-275-11	DEFLECTION YOKE (Y28PFA)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
69	4-369-318-00	SPRING, TENSION	
70 ⚠	.1-426-350-21	COIL, DEMAGNETIZATION	
71	*4-379-197-01	BRACKET (H), PICTURE TUBE	
72	*4-376-989-01	BRACKET (E), PICTURE TUBE	
73	4-393-622-01	CABINET (BLACK)	
	4-393-622-11	CABINET (GRAY) (USA ONLY)	
74	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
75	4-306-034-00	FLANGE NUT,(B) 5MM	
76	*4-371-629-01	STOPPER, WIRE	
77 ⚠	.1-559-396-11	CORD, POWER	
78 ⚠	.4-388-328-01	GROMMET, AC CORD	
79	4-308-870-00	CLIP, LEAD WIRE	
80	1-452-032-00	MAGNET,DISK; 10MM ϕ	
81	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
82	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	

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.

SECTION 8

ELECTRICAL PARTS LIST

B F

NOTE:

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Replace only with part number specified.

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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-1135-560-A	B BOARD, COMPLETE				
		**********				
	*1-564-507-11	PLUG, CONNECTOR 4P				
	1-566-942-11	CONNECTOR,HINGE(RECEPTACLE)30P				
	*1-568-371-11	PIN, CONNECTOR (PC BOARD) 15P				
	*1-568-376-11	CONNECTOR,HINGE (RECEPTACLE)7P				
		<CAPACITOR>				
C1302	1-124-119-00	ELECT	330MF	20%	16V	
C1308	1-124-473-11	ELECT	1000MF	20%	10V	
C1309	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C1313	1-124-477-11	ELECT	47MF	20%	16V	
C1314	1-124-477-11	ELECT	47MF	20%	16V	
C1315	1-124-477-11	ELECT	47MF	20%	16V	
C1316	1-124-477-11	ELECT	47MF	20%	16V	
C1319	1-124-477-11	ELECT	47MF	20%	16V	
C1326	1-136-161-00	FILM	0.047MF	5%	50V	
C1342	1-102-971-00	CERAMIC	82PF	5%	50V	
C1343	1-123-875-11	ELECT	10MF	20%	50V	
		<FILTER BLOCK>				
CM1301	1-464-880-11	FILTER BLOCK, COM (CFB-2)				
		<DIODE>				
D1301	8-719-911-19	DIODE 1SS119				
D1302	8-719-911-19	DIODE 1SS119				
		<IC>				
IC1304	8-759-710-69	IC NJM2233BS				
IC1305	8-759-710-69	IC NJM2233BS				
		<TRANSISTOR>				
Q1301	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1302	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q1303	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1307	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1308	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1309	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		<RESISTOR>				
R1305	1-249-429-11	CARBON	10K	5%	1/4W	
R1306	1-249-441-11	CARBON	100K	5%	1/4W	
R1307	1-249-429-11	CARBON	10K	5%	1/4W	
R1308	1-249-417-11	CARBON	1K	5%	1/4W	
R1314	1-249-417-11	CARBON	1K	5%	1/4W	
R1320	1-249-405-11	CARBON	100	5%	1/4W	
R1321	1-249-405-11	CARBON	100	5%	1/4W	
R1322	1-249-405-11	CARBON	100	5%	1/4W	
R1323	1-249-405-11	CARBON	100	5%	1/4W	
R1324	1-249-405-11	CARBON	100	5%	1/4W	
R1325	1-249-405-11	CARBON	100	5%	1/4W	
R1327	1-249-417-11	CARBON	1K	5%	1/4W	
R1328	1-249-405-11	CARBON	100	5%	1/4W	
R1329	1-249-405-11	CARBON	100	5%	1/4W	
R1330	1-249-405-11	CARBON	100	5%	1/4W	
R1346	1-249-405-11	CARBON	100	5%	1/4W	
R1347	1-249-417-11	CARBON	1K	5%	1/4W	
R1348	1-249-433-11	CARBON	22K	5%	1/4W	
R1349	1-249-429-11	CARBON	10K	5%	1/4W	
R1350	1-249-415-11	CARBON	680	5%	1/4W	
R1351	1-249-409-11	CARBON	220	5%	1/4W	
R1352	1-249-411-11	CARBON	330	5%	1/4W	
R1353	1-249-405-11	CARBON	100	5%	1/4W	
R1355	1-249-417-11	CARBON	1K	5%	1/4W	
R1356	1-249-405-11	CARBON	100	5%	1/4W	
R1367	1-249-418-11	CARBON	1.2K	5%	1/4W	
R1369	1-249-418-11	CARBON	1.2K	5%	1/4W	
		**********				
	*A-1245-453-A	F BOARD, COMPLETE				
		**********				
	*1-506-348-99	PIN, CONNECTOR 3P				
	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P				
	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P				
	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P				
	1-533-127-00	FUSE CLIP				
	*1-533-189-11	HOLDER, FUSE				
	*1-559-991-21	CONNECTOR ASSY 1P				
	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)				
	*1-564-505-11	PLUG, CONNECTOR 2P				
	*1-564-506-11	PLUG, CONNECTOR 3P				
	*1-564-508-11	PLUG, CONNECTOR 5P				
	*1-565-514-11	SOCKET, CONNECTOR 2P				
	*1-568-378-21	PIN, CONNECTOR 3P				
	*4-341-752-01	EYELET (EY1,EY2,EY3,EY4,EY5,EY6,EY7)				
		<CAPACITOR>				
C601⚠	1-136-311-51	FILM	0.47MF	20%	125V	
C603	1-108-391-12	MYLAR	0.15MF	10%	100V	
C604	1-101-821-00	CERAMIC	0.0022MF		500V	
C605⚠	1-162-576-51	CERAMIC	0.001MF	10%	400V	
C606⚠	1-161-953-51	CERAMIC	0.0047MF	20%	400V	
C607	1-162-599-12	CERAMIC	0.0047MF	20%	400V	
C610	1-124-477-11	ELECT	47MF	20%	16V	

F

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
C611	1-123-333-00	ELECT	100MF	20%	25V	
C616⚠	1-136-311-51	FILM	0.47MF	20%	125V	
C617	1-101-821-00	CERAMIC	0.0022MF		500V	
C618	1-124-477-11	ELECT	47MF	20%	16V	
C622	1-125-538-11	ELECT(BLOCK)	1000MF	20%	200V	
C650	1-161-830-00	CERAMIC	0.0047MF		500V	
C651	1-124-799-11	ELECT	2.2MF	20%	160V	
C652⚠	1-124-122-91	ELECT	100MF	20%	50V	
C653	1-102-244-00	CERAMIC	220PF	10%	500V	
C654	1-124-126-00	ELECT	47MF	20%	25V	
C655	1-136-173-00	FILM	0.47MF	5%	50V	
C656	1-106-383-00	MYLAR	0.047MF	10%	100V	
C657	1-136-601-11	FILM	0.01MF	10%	630V	
C658	1-162-114-00	CERAMIC	0.0047MF		2KV	
C660	1-162-599-12	CERAMIC	0.0047MF	20%	400V	
C661	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C663	1-124-618-11	ELECT	2200MF	20%	35V	
C664	1-126-103-11	ELECT	470MF	20%	16V	
C665	1-124-557-11	ELECT	1000MF	20%	25V	
C666	1-125-564-11	ELECT(BLOCK)	1000MF	20%	160V	
C667	1-102-129-00	CERAMIC	0.01MF	10%	50V	
C668	1-162-116-00	CERAMIC	680PF	10%	2KV	
C672	1-123-333-00	ELECT	100MF	20%	25V	
C673	1-102-129-00	CERAMIC	0.01MF	10%	50V	
C674	1-124-126-00	ELECT	47MF	20%	16V	

<DIODE>

D601⚠	8-719-305-07	DIODE	RBV-406H
D602	8-719-911-55	DIODE	U05G
D603	8-719-911-55	DIODE	U05G
D604	8-719-911-19	DIODE	1SS119
D605	8-719-911-55	DIODE	U05G
D607	8-719-911-19	DIODE	1SS119
D651	8-719-911-19	DIODE	1SS119
D652	8-719-300-33	DIODE	RU-3AM
D653	8-719-311-31	DIODE	RU-1P
D657	8-719-500-67	DIODE	D5KC40H
D658	8-719-981-00	DIODE	ERC81-004
D659	8-719-500-41	DIODE	D8LCA20
D660	8-719-312-10	DIODE	RU4AM-T3

<FUSE>

F601⚠	1-532-748-11	FUSE, GLASS TUBE	6.3A/125V

<FERRITE BEAD INDUCTOR>

FB655	1-410-397-21	FERRITE BEAD INDUCTOR
FB658	1-410-396-41	FERRITE BEAD INDUCTOR
FB659	1-410-397-21	FERRITE BEAD INDUCTOR
FB660	1-410-396-41	FERRITE BEAD INDUCTOR
FB662	1-410-397-21	FERRITE BEAD INDUCTOR
FB663	1-410-397-21	FERRITE BEAD INDUCTOR
FB664	1-410-397-21	FERRITE BEAD INDUCTOR

<IC>

IC651⚠	8-749-920-81	IC STR-S6301A
*4	4-363-404-00	HOLDER, IC; IC651
	4-393-406-01	SHEET (R), RADIATION; IC651
IC652	8-719-156-73	DIODE PS2501-1LB
IC653⚠	8-749-920-62	IC SE-135NS
IC654⚠	8-749-920-61	IC SE-135N

<COIL>

L601	1-459-104-00	COIL,DUST CORE
L657	1-459-155-00	COIL (WITH CORE) 45UH
L658	1-459-155-00	COIL (WITH CORE) 45UH
L659	1-459-407-00	COIL, FERRITE CHOKE

<TRANSISTOR>

Q602	8-729-255-12	TRANSISTOR 2SC2551
Q603	8-729-200-17	TRANSISTOR 2SA1091
Q651⚠	8-729-177-43	TRANSISTOR 2SD774
Q652	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q653	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q654	8-729-119-76	TRANSISTOR 2SA1175-HFE

<RESISTOR>

R601⚠	1-202-723-51	SOLID	2.2M	10%	1/2W	
R602⚠	1-205-798-11	WIREWOUND	1.5	5%	20W	F
R603	1-215-885-00	METAL OXIDE	68	5%	2W	F
R605⚠	1-202-723-51	SOLID	2.2M	10%	1/2W	
R606	1-215-885-00	METAL OXIDE	68	5%	2W	F
R607	1-249-421-11	CARBON	2.2K	5%	1/4W	
R608	1-247-887-00	CARBON	220K	5%	1/4W	
R609	1-249-417-11	CARBON	1K	5%	1/4W	
R611	1-207-645-00	WIREWOUND	0.47	10%	3W	F
R612	1-249-417-11	CARBON	1K	5%	1/4W	F
R613	1-249-441-11	CARBON	100K	5%	1/4W	
R614	1-249-429-11	CARBON	10K	5%	1/4W	
R615	1-247-895-00	CARBON	470K	5%	1/4W	
R619⚠	1-216-341-51	METAL OXIDE	0.22	5%	1W	F
R620	1-216-444-11	METAL OXIDE	82K	5%	1W	F
R621	1-249-429-11	CARBON	10K	5%	1/4W	
R622	1-249-423-11	CARBON	3.3K	5%	1/4W	
R623	1-216-457-00	METAL OXIDE	1.2K	5%	2W	F
R624	1-216-458-11	METAL OXIDE	1.8K	5%	2W	F
R651	1-207-612-00	WIREWOUND	0.1	10%	2W	F
R652	1-207-612-00	WIREWOUND	0.1	10%	2W	F
R653	1-215-893-11	METAL OXIDE	1.5K	5%	2W	F
R654	1-205-945-11	WIREWOUND	33	10%	7W	F
R655	1-202-843-11	SOLID	270K	10%	1/2W	
R660⚠	1-249-414-51	CARBON	560	5%	1/4W	F
R661	1-249-413-11	CARBON	470	5%	1/4W	
R662	1-249-467-11	CARBON	68K	5%	1/4W	F
R663	1-247-706-11	CARBON	330	5%	1/4W	F
R664	1-249-425-11	CARBON	4.7K	5%	1/4W	
R665	1-249-417-11	CARBON	1K	5%	1/4W	
R666	1-249-425-11	CARBON	4.7K	5%	1/4W	
R667	1-249-417-11	CARBON	1K	5%	1/4W	
R668	1-249-429-11	CARBON	10K	5%	1/4W	
R669	1-249-417-11	CARBON	1K	5%	1/4W	
R670	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R671	1-202-730-00	SOLID	8.2M	10%	1/2W	
R672	1-249-455-11	CARBON	4.7	5%	1/4W	F
R675	1-215-881-11	METAL OXIDE	15	5%	2W	F
R676	1-216-446-00	METAL OXIDE	18	5%	2W	F
R690	1-205-945-11	WIREWOUND	33	10%	7W	F
R691	1-216-468-11	METAL OXIDE	82K	5%	2W	F
R692	1-216-468-11	METAL OXIDE	82K	5%	2W	F
R693	1-216-468-11	METAL OXIDE	82K	5%	2W	F
R694	1-216-468-11	METAL OXIDE	82K	5%	2W	F
R695	1-216-468-11	METAL OXIDE	82K	5%	2W	F

F A

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

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Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R696	1-207-682-00	WIREWOUND	47	10%	5W	F
		<RELAY>				
RY601⚠	1-515-601-11	RELAY				
		<TRANSFORMER>				
T601⚠	1-424-220-21	TRANSFORMER, LINE FILTER				
T602⚠	1-424-205-11	TRANSFORMER, LINE FILTER				
T603⚠	1-448-916-11	TRANSFORMER, POWER				
T651⚠	1-449-607-11	TRANSFORMER				
		<THERMISTOR>				
THP601⚠	1-808-081-22	THERMISTOR, POSITIVE				
**********						
	*A-1296-567-A	A BOARD, COMPLETE				
		**********				
	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P				
	*1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)				
	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P				
	*1-564-505-11	PLUG, CONNECTOR 2P				
	*1-564-507-11	PLUG, CONNECTOR 4P				
	*1-564-508-11	PLUG, CONNECTOR 5P				
	*1-564-509-11	PLUG, CONNECTOR 6P				
	*1-564-511-11	PLUG, CONNECTOR 8P				
	*1-564-512-11	PLUG, CONNECTOR 9P				
	*1-564-513-11	PLUG, CONNECTOR 10P				
	*1-565-509-11	CONNECTOR, BOARD TO BOARD 18P				
	*1-568-371-11	PIN, CONNECTOR (PC BOARD) 15P				
	*4-341-751-01	EYELET				
	*4-341-752-01	EYELET (EY1,EY2,EY3,EY4,EY5)				
		<CONNECTOR>				
A33	*1-564-511-11	PLUG, CONNECTOR 8P				
		<CAPACITOR>				
C101	1-123-875-11	ELECT	10MF	20%	50V	
C102	1-126-233-11	ELECT	22MF	20%	25V	
C103	1-124-360-00	ELECT	1000MF	20%	16V	
C104	1-124-473-11	ELECT	1000MF	20%	10V	
C106	1-136-153-00	FILM	0.01MF	5%	50V	
C107	1-119-160-00	ELECT	470MF		10V	
C108	1-123-875-11	ELECT	10MF	20%	50V	
C109	1-102-973-00	CERAMIC	100PF	5%	50V	
C111	1-102-978-00	CERAMIC	220PF	5%	50V	
C112	1-136-161-00	FILM	0.047MF	5%	50V	
C113	1-124-499-11	ELECT	1MF	20%	50V	
C114	1-102-978-00	CERAMIC	220PF	5%	50V	
C115	1-101-006-00	CERAMIC	0.047MF		50V	
C116	1-102-973-00	CERAMIC	100PF	5%	50V	
C119	1-123-875-11	ELECT	10MF	20%	50V	
C120	1-124-360-00	ELECT	1000MF	20%	16V	
C121	1-136-165-00	FILM	0.1MF	5%	50V	
C124	1-130-728-00	FILM	0.0022MF	5%	50V	
C125	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C126	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C128	1-124-477-11	ELECT	47MF	20%	16V	
C129	1-136-161-00	FILM	0.047MF	5%	50V	
C199	1-124-477-11	ELECT	47MF	20%	16V	
C201	1-124-478-11	ELECT	100MF	20%	25V	
C202	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C203	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C301	1-124-120-11	ELECT	220MF	20%	16V	
C302	1-124-234-00	ELECT	22MF	20%	16V	
C303	1-136-153-00	FILM	0.01MF	5%	50V	
C304	1-124-499-11	ELECT	1MF	20%	50V	
C305	1-124-465-00	ELECT	0.47MF	20%	50V	
C306	1-124-234-00	ELECT	22MF	20%	16V	
C307	1-102-978-00	CERAMIC	220PF	5%	50V	
C308	1-102-965-00	CERAMIC	39PF	5%	50V	
C309	1-136-165-00	FILM	0.1MF	5%	50V	
C310	1-136-165-00	FILM	0.1MF	5%	50V	
C311	1-136-165-00	FILM	0.1MF	5%	50V	
C312	1-136-169-00	FILM	0.22MF	5%	50V	
C313	1-124-499-11	ELECT	1MF	20%	50V	
C315	1-136-158-00	FILM	0.027MF	5%	50V	
C316	1-102-973-00	CERAMIC	100PF	5%	50V	
C317	1-136-169-00	FILM	0.22MF	5%	50V	
C318	1-136-169-00	FILM	0.22MF	5%	50V	
C319	1-102-980-00	CERAMIC	270PF	5%	50V	
C320	1-124-499-11	ELECT	1MF	20%	50V	
C321	1-136-153-00	FILM	0.01MF	5%	50V	
C322	1-124-499-11	ELECT	1MF	20%	50V	
C323	1-124-443-00	ELECT	100MF	20%	10V	
C324	1-102-114-00	CERAMIC	470PF	10%	50V	
C325	1-102-114-00	CERAMIC	470PF	10%	50V	
C326	1-124-499-11	ELECT	1MF	20%	50V	
C327	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C328	1-123-875-11	ELECT	10MF	20%	50V	
C329	1-124-799-11	ELECT	2.2MF	20%	160V	
C331	1-102-112-00	CERAMIC	330PF	10%	50V	
C332	1-136-157-00	FILM	0.022MF	5%	50V	
C333	1-124-499-11	ELECT	1MF	20%	50V	
C334	1-136-161-00	FILM	0.047MF	5%	50V	
C335	1-130-471-00	MYLAR	0.001MF	5%	50V	
C338	1-126-233-11	ELECT	22MF	20%	50V	
C339	1-123-875-11	ELECT	10MF	20%	50V	
C340	1-124-902-00	ELECT	0.47MF	20%	50V	
C342	1-161-377-00	CERAMIC	0.0047MF	30%	50V	
C343	1-119-363-00	ELECT	4.7MF		25V	
C344	1-126-176-11	ELECT	220MF	20%	10V	
C351	1-136-169-00	FILM	0.22MF	5%	50V	
C352	1-136-165-00	FILM	0.1MF	5%	50V	
C353	1-124-902-00	ELECT	0.47MF	20%	50V	
C382	1-124-234-00	ELECT	22MF	20%	16V	
C500	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C501	1-124-122-11	ELECT	100MF	20%	50V	
C502 ⚠	1-124-557-91	ELECT	1000MF	20%	25V	
C503	1-124-477-11	ELECT	47MF	20%	25V	
C504	1-106-216-00	MYLAR	0.068MF	10%	100V	
C505	1-106-383-00	MYLAR	0.047MF	10%	100V	
C508	1-136-161-00	FILM	0.047MF	5%	50V	
C509	1-106-387-00	MYLAR	0.068MF	10%	200V	
C510	1-102-228-00	CERAMIC	470PF	10%	500V	
C511	1-124-494-00	ELECT	33MF		160V	
C512	1-124-046-00	ELECT	10MF	20%	160V	
C513	1-124-477-11	ELECT	47MF	20%	25V	
C514	1-124-557-11	ELECT	1000MF	20%	25V	
C515	1-162-114-00	CERAMIC	0.0047MF		2KV	
C516	1-162-116-00	CERAMIC	680PF	10%	2KV	
C517	1-162-116-00	CERAMIC	680PF	10%	2KV	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C518	1-106-359-00	MYLAR	0.0047MF	10%	200V
C519⚠	1-136-897-11	FILM	0.021MF	3%	2KV
C520	1-162-116-00	CERAMIC	680PF	10%	2KV
C521	1-162-558-11	CERAMIC	100PF	10%	2KV
C522⚠	1-136-896-51	FILM	0.091MF	5%	630V
C523	1-102-244-00	CERAMIC	220PF	10%	500V
C524	1-106-383-00	MYLAR	0.047MF	10%	200V
C525	1-124-902-00	ELECT	0.47MF	20%	50V
C526	1-102-244-00	CERAMIC	220PF	10%	500V
C527	1-162-318-11	CERAMIC	0.001MF	10%	500V
C528	1-102-030-00	CERAMIC	330PF	10%	500V
C529	1-136-109-00	FILM	0.68MF	5%	200V
C530	1-123-947-00	ELECT	10MF	20%	250V
C531	1-130-475-00	MYLAR	0.0022MF	5%	50V
C532	1-130-475-00	MYLAR	0.0022MF	5%	50V
C533	1-130-471-00	MYLAR	0.001MF	5%	50V
C534	1-124-477-11	ELECT	47MF	20%	25V
C535	1-123-948-00	ELECT	22MF	20%	250V
C536	1-136-559-11	FILM	0.0047MF	10%	630V
C537	1-124-927-11	ELECT	4.7MF	20%	50V
C541	1-106-383-00	MYLAR	0.047MF		200V
C543	1-136-828-11	FILM	1.8MF	5%	200V
C544	1-106-343-00	MYLAR	0.001MF	10%	100V
C545	1-124-910-11	ELECT	47MF	20%	50V
C546	1-102-228-00	CERAMIC	470PF	10%	500V
C548	1-124-927-11	ELECT	4.7MF	20%	50V
C549	1-124-477-11	ELECT	47MF	20%	25V
C550	1-136-111-00	FILM	1MF	5%	200V
C551	1-124-927-11	ELECT	4.7MF	20%	50V
C552	1-102-228-00	CERAMIC	470PF	10%	500V
C553	1-123-875-11	ELECT	10MF	20%	50V
C555	1-123-875-11	ELECT	10MF	20%	50V
C556	1-123-932-00	ELECT	4.7MF	20%	160V
C557	1-102-114-00	CERAMIC	470PF	10%	50V
C558	1-136-161-00	FILM	0.047MF	5%	50V
C559	1-136-165-00	FILM	0.1MF	5%	50V
C581	1-124-478-11	ELECT	100MF	20%	25V
C582	1-124-478-11	ELECT	100MF	20%	25V
C583	1-124-478-11	ELECT	100MF	20%	25V
C584	1-124-478-11	ELECT	100MF	20%	25V
C585	1-124-478-11	ELECT	100MF	20%	25V
C586	1-124-478-11	ELECT	100MF	20%	25V
C611⚠	1-102-125-91	CERAMIC	0.0047MF	10%	50V
C612⚠	1-102-125-91	CERAMIC	0.0047MF	10%	50V
C613	1-124-480-11	ELECT	470MF	20%	25V
C614	1-124-480-11	ELECT	470MF	20%	25V
C619	1-124-478-11	ELECT	100MF	20%	25V
C620	1-123-875-11	ELECT	10MF	20%	50V
C640	1-136-165-00	FILM	0.1MF	5%	50V
C641	1-101-006-00	CERAMIC	0.047MF		50V
C642	1-102-129-00	CERAMIC	0.01MF	10%	50V
C643	1-101-005-00	CERAMIC	0.022MF		50V
C644	1-101-005-00	CERAMIC	0.022MF		50V
C1701	1-102-976-00	CERAMIC	180PF	5%	50V
C1702	1-102-973-00	CERAMIC	100PF	5%	50V
C1703	1-124-477-11	ELECT	47MF	20%	16V

<NETWORK>

CP102	1-236-301-11	NETWORK, C	
CP103	1-236-491-11	NETWORK, RES, THICK FILM	
CP105	1-236-479-11	NETWORK, C	
CP106	1-236-479-11	NETWORK, C	
CP108	1-236-358-21	NETWORK, RES	
CP109	1-236-358-21	NETWORK, RES	
CP110	1-236-294-21	NETWORK, RES	

<DIODE>

D101	8-719-110-78	DIODE RD33ES-B2	
D102	8-719-911-19	DIODE 1SS119	
D103	8-719-911-19	DIODE 1SS119	
D104	8-719-911-19	DIODE 1SS119	
D105	8-719-974-81	DIODE 1SV113	
D106	8-719-911-19	DIODE 1SS119	
D112	8-719-911-19	DIODE 1SS119	
D114	8-719-911-19	DIODE 1SS119	
D301	8-719-110-48	DIODE RD18ES-B1	
D302	8-719-109-89	DIODE RD5.6ES-B2	
D303	8-719-109-84	DIODE RD5.1ES-B1	
D304	8-719-109-96	DIODE RD6.8ES-B1	
D306	8-719-911-19	DIODE 1SS119	
D307	8-719-911-19	DIODE 1SS119	
D308	8-719-911-19	DIODE 1SS119	
D350	8-719-109-89	DIODE RD5.6ES-B2	
D500	8-719-911-55	DIODE U05G	
D501	8-719-300-33	DIODE RU-3AM	
D502	8-719-902-85	DIODE RG3G-5007L	
D503	8-719-901-58	DIODE RGP15J	
D504	8-719-500-26	DIODE D5KD20H	
D505	8-719-300-65	DIODE ES1F	
D506	8-719-911-19	DIODE 1SS119	
D507	8-719-300-33	DIODE RU-3AM	
D508	8-719-911-19	DIODE 1SS119	
D509	8-719-911-19	DIODE 1SS119	
D511	8-719-902-85	DIODE RG3G-5007L	
D512	8-719-311-87	DIODE FMS-3FU	
	*4-393-401-01	SPRING; D512	
D513	8-719-911-19	DIODE 1SS119	
D514	8-719-911-19	DIODE 1SS119	
D515	8-719-911-19	DIODE 1SS119	
D531	8-719-911-19	DIODE 1SS119	
D533	8-719-109-81	DIODE RD4.7ES-B2	
D536	8-719-300-33	DIODE RU-3AM	
D537	8-719-911-19	DIODE 1SS119	
D539	8-719-302-43	DIODE EL1Z	
D602	8-719-511-40	DIODE S1VB40	
D640	8-719-911-19	DIODE 1SS119	

<IC>

IC101	8-759-632-89	IC M37100M8-717SP
IC102	8-759-972-43	IC PCD8582
IC103	8-759-403-44	IC MN1280-S
IC301	8-752-035-52	IC CXA1313S
IC500	8-759-980-58	IC TDA8172
	*4-393-401-01	SPRING; IC500
	4-393-405-01	SHEET (V), RADIATION; IC500
IC531	8-759-103-93	IC UPC393C
IC581⚠	8-759-142-04	IC UPC7893HF
	*4-393-401-01	SPRING; IC581
IC582⚠	8-759-142-04	IC UPC7893HF
	*4-368-683-01	SPRING; IC582
IC601	8-759-112-06	IC UPC78N05H
IC901⚠	8-759-171-05	IC UPC7805H
IC1701	8-759-978-66	IC MB88201-638L

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REF.NO.	PART NO.	DESCRIPTION	REMARK
		<IF BLOCK>	
IF201	1-464-755-21	IF BLOCK (IFE-450A)	
		<COIL>	
L101	1-408-421-00	INDUCTOR 100UH	
L102	1-408-415-00	INDUCTOR 33UH	
L201	1-408-408-00	INDUCTOR 8.2UH	
L500	1-422-613-11	COIL, AIR CORE	
L501	1-459-148-00	COIL	
L503	1-422-613-11	COIL, AIR CORE	
L505 ⚠	1-410-669-31	INDUCTOR 33UH	
L506	1-408-225-00	INDUCTOR 3.3UH	
L507	1-421-541-00	COIL, CHOKE 1000UH	
L508 ⚠	1-424-210-11	COIL, PIN MODULATION	
L509	1-422-613-11	COIL, AIR CORE	
L511	1-408-225-00	INDUCTOR 3.3UH	
L512 ⚠	1-459-973-21	COIL, HORIZONTAL LINEARITY	
L513	1-408-698-00	INDUCTOR 8.2UH	
L514 ⚠	1-408-698-21	INDUCTOR 8.2UH	
L1701	1-408-413-00	INDUCTOR 22UH	
		<NEON LAMP>	
NL501	1-519-108-99	LAMP, NEON	
		<MODULE>	
PM501 ⚠	1-808-690-11	MODULE, PROTECTOR (PM-14)	
		<TRANSISTOR>	
Q101	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q102	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q104	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q105	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q107	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q108	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q170	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q301	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q302	8-729-900-89	TRANSISTOR DTC144ES	
Q303	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q304	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q306	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q307	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q308	8-729-900-89	TRANSISTOR DTC144ES	
Q310	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q311	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q312	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q313	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q314	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q351	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q352	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q501	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q502	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q503	8-729-304-50	TRANSISTOR 2SD1941-06	
	*4-393-401-01	SPRING; Q503	
Q504	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q505	8-729-208-72	TRANSISTOR 2SC3298B-Y	
Q506	8-729-119-76	TRANSISTOR 2SA1175-HFE	

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<RESISTOR>				
R101	1-249-425-11	CARBON	4.7K	5%	1/4W	
R102	1-249-416-11	CARBON	820	5%	1/4W	
R103	1-215-896-00	METAL OXIDE	4.7K	5%	2W	F
R105	1-249-429-11	CARBON	10K	5%	1/4W	
R106	1-249-421-11	CARBON	2.2K	5%	1/4W	
R107	1-249-417-11	CARBON	1K	5%	1/4W	
R108	1-249-421-11	CARBON	2.2K	5%	1/4W	
R109	1-249-421-11	CARBON	2.2K	5%	1/4W	
R110	1-249-421-11	CARBON	2.2K	5%	1/4W	
R111	1-249-421-11	CARBON	2.2K	5%	1/4W	
R112	1-249-421-11	CARBON	2.2K	5%	1/4W	
R113	1-249-421-11	CARBON	2.2K	5%	1/4W	
R114	1-249-421-11	CARBON	2.2K	5%	1/4W	
R115	1-249-421-11	CARBON	2.2K	5%	1/4W	
R116	1-249-409-11	CARBON	220	5%	1/4W	
R117	1-249-409-11	CARBON	220	5%	1/4W	
R118	1-249-409-11	CARBON	220	5%	1/4W	
R119	1-249-431-11	CARBON	15K	5%	1/4W	
R120	1-249-421-11	CARBON	2.2K	5%	1/4W	
R121	1-249-421-11	CARBON	2.2K	5%	1/4W	
R122	1-249-421-11	CARBON	2.2K	5%	1/4W	
R123	1-249-421-11	CARBON	2.2K	5%	1/4W	
R124	1-249-421-11	CARBON	2.2K	5%	1/4W	
R125	1-249-421-11	CARBON	2.2K	5%	1/4W	
R126	1-249-421-11	CARBON	2.2K	5%	1/4W	
R127	1-249-413-11	CARBON	470	5%	1/4W	
R128	1-249-425-11	CARBON	4.7K	5%	1/4W	
R129	1-249-425-11	CARBON	4.7K	5%	1/4W	
R130	1-249-437-11	CARBON	47K	5%	1/4W	
R131	1-249-429-11	CARBON	10K	5%	1/4W	
R133	1-249-421-11	CARBON	2.2K	5%	1/4W	
R134	1-249-421-11	CARBON	2.2K	5%	1/4W	
R135	1-249-429-11	CARBON	10K	5%	1/4W	
R136	1-249-429-11	CARBON	10K	5%	1/4W	
R137	1-249-409-11	CARBON	220	5%	1/4W	
R138	1-249-425-11	CARBON	4.7K	5%	1/4W	
R139	1-249-421-11	CARBON	2.2K	5%	1/4W	
R140	1-249-439-11	CARBON	68K	5%	1/4W	
R141	1-247-903-00	CARBON	1M	5%	1/4W	
R142	1-249-437-11	CARBON	47K	5%	1/4W	
R143	1-249-437-11	CARBON	47K	5%	1/4W	
R144	1-215-896-00	METAL OXIDE	4.7K	5%	2W	F
R145	1-249-429-11	CARBON	10K	5%	1/4W	
R146	1-247-903-00	CARBON	1M	5%	1/4W	
R147	1-249-429-11	CARBON	10K	5%	1/4W	
R148	1-249-429-11	CARBON	10K	5%	1/4W	
R149	1-215-896-00	METAL OXIDE	4.7K	5%	2W	F
R150	1-249-441-11	CARBON	100K	5%	1/4W	
R151	1-249-429-11	CARBON	10K	5%	1/4W	
R152	1-249-425-11	CARBON	4.7K	5%	1/4W	
R153	1-249-429-11	CARBON	10K	5%	1/4W	
R154	1-249-429-11	CARBON	10K	5%	1/4W	
R156	1-249-409-11	CARBON	220	5%	1/4W	
R158	1-249-429-11	CARBON	10K	5%	1/4W	
R159	1-249-437-11	CARBON	47K	5%	1/4W	
R160	1-247-887-00	CARBON	220K	5%	1/4W	
R161	1-249-409-11	CARBON	220	5%	1/4W	
R162	1-249-409-11	CARBON	220	5%	1/4W	
R163	1-249-421-11	CARBON	2.2K	5%	1/4W	
R164	1-249-409-11	CARBON	220	5%	1/4W	
R165	1-249-409-11	CARBON	220	5%	1/4W	
R166	1-249-409-11	CARBON	220	5%	1/4W	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R167	1-249-429-11	CARBON	10K	5%	1/4W	
R168	1-249-429-11	CARBON	10K	5%	1/4W	
R169	1-249-429-11	CARBON	10K	5%	1/4W	
R170	1-249-429-11	CARBON	10K	5%	1/4W	
R171	1-249-421-11	CARBON	2.2K	5%	1/4W	
R172	1-249-429-11	CARBON	10K	5%	1/4W	
R173	1-249-421-11	CARBON	2.2K	5%	1/4W	
R174	1-249-421-11	CARBON	2.2K	5%	1/4W	
R175	1-249-421-11	CARBON	2.2K	5%	1/4W	
R176	1-249-421-11	CARBON	2.2K	5%	1/4W	
R177	1-249-409-11	CARBON	220	5%	1/4W	
R178	1-249-417-11	CARBON	1k	5%	1/4W	
R179	1-249-417-11	CARBON	1k	5%	1/4W	
R181	1-249-417-11	CARBON	1k	5%	1/4W	
R182	1-249-421-11	CARBON	2.2K	5%	1/4W	
R183	1-249-421-11	CARBON	2.2K	5%	1/4W	
R184	1-249-417-11	CARBON	1K	5%	1/4W	
R185	1-249-417-11	CARBON	1K	5%	1/4W	
R186	1-249-433-11	CARBON	22K	5%	1/4W	
R187	1-249-421-11	CARBON	2.2K	5%	1/4W	
R188	1-249-425-11	CARBON	4.7K	5%	1/4W	
R189	1-249-433-11	CARBON	22K	5%	1/4W	
R190	1-249-421-11	CARBON	2.2K	5%	1/4W	
R191	1-249-421-11	CARBON	2.2K	5%	1/4W	
R192	1-249-421-11	CARBON	2.2K	5%	1/4W	
R194	1-249-417-11	CARBON	1K	5%	1/4W	
R195	1-249-421-11	CARBON	2.2K	5%	1/4W	
R196	1-249-421-11	CARBON	2.2K	5%	1/4W	
R197	1-259-884-11	CARBON	4.7M	5%	1/4W	
R198	1-249-417-11	CARBON	1K	5%	1/4W	
R200	1-249-417-11	CARBON	1K	5%	1/4W	
R201	1-249-425-11	CARBON	4.7K	5%	1/4W	
R202	1-249-429-11	CARBON	10K	5%	1/4W	
R203	1-249-435-11	CARBON	33K	5%	1/4W	
R204	1-249-435-11	CARBON	33K	5%	1/4W	
R205	1-249-411-11	CARBON	330	5%	1/4W	
R208	1-216-423-11	METAL OXIDE	27	5%	1W	F
R209	1-249-417-11	CARBON	1K	5%	1/4W	
R212	1-249-417-11	CARBON	1K	5%	1/4W	
R301	1-215-448-00	METAL	13K	1%	1/6W	
R304	1-249-432-11	CARBON	18K	5%	1/4W	
R305	1-247-899-11	CARBON	680K	5%	1/4W	
R306	1-215-421-00	METAL	1K	1%	1/6W	
R307	1-249-405-11	CARBON	100	5%	1/4W	
R308	1-249-405-11	CARBON	100	5%	1/4W	
R309	1-249-405-11	CARBON	100	5%	1/4W	
R310	1-249-409-11	CARBON	220	5%	1/4W	
R311	1-249-409-11	CARBON	220	5%	1/4W	
R312	1-249-409-11	CARBON	220	5%	1/4W	
R313	1-249-409-11	CARBON	220	5%	1/4W	
R314	1-249-409-11	CARBON	220	5%	1/4W	
R315	1-249-417-11	CARBON	1K	5%	1/4W	
R316	1-249-425-11	CARBON	4.7K	5%	1/4W	
R317	1-249-429-11	CARBON	10K	5%	1/4W	
R320	1-249-429-11	CARBON	10K	5%	1/4W	
R321	1-249-441-11	CARBON	100K	5%	1/4W	
R322	1-249-428-11	CARBON	8.2K	5%	1/4W	
R323	1-215-457-00	METAL	33K	1%	1/6W	
R324	1-249-405-11	CARBON	100	5%	1/4W	
R325	1-249-414-11	CARBON	560	5%	1/4W	
R326	1-249-421-11	CARBON	2.2K	5%	1/4W	
R327	1-249-417-11	CARBON	1K	5%	1/4W	
R328	1-249-413-11	CARBON	470	5%	1/4W	
R329	1-249-425-11	CARBON	4.7K	5%	1/4W	
R330	1-249-421-11	CARBON	2.2K	5%	1/4W	
R332	1-247-895-00	CARBON	470K	5%	1/4W	
R333	1-249-409-11	CARBON	220	5%	1/4W	
R334	1-249-420-11	CARBON	1.8K	5%	1/4W	
R335	1-249-441-11	CARBON	100K	5%	1/4W	
R336	1-249-405-11	CARBON	100	5%	1/4W	
R337	1-249-438-11	CARBON	56K	5%	1/4W	
R339	1-249-411-11	CARBON	330	5%	1/4W	
R340	1-249-405-11	CARBON	100	5%	1/4W	
R341	1-249-405-11	CARBON	100	5%	1/4W	
R342	1-249-405-11	CARBON	100	5%	1/4W	
R343	1-249-405-11	CARBON	100	5%	1/4W	
R344	1-249-405-11	CARBON	100	5%	1/4W	
R345	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R346	1-249-413-11	CARBON	470	5%	1/4W	
R347	1-259-884-11	CARBON	4.7M	5%	1/4W	
R349	1-249-409-11	CARBON	220	5%	1/4W	
R350	1-249-423-11	CARBON	3.3K	5%	1/4W	
R351	1-249-441-11	CARBON	100K	5%	1/4W	
R352	1-249-441-11	CARBON	100K	5%	1/4W	
R353	1-249-441-11	CARBON	100K	5%	1/4W	
R354	1-249-433-11	CARBON	22K	5%	1/4W	
R355	1-249-433-11	CARBON	22K	5%	1/4W	
R356	1-249-433-11	CARBON	22K	5%	1/4W	
R357	1-249-437-11	CARBON	47K	5%	1/4W	
R358	1-247-891-00	CARBON	330K	5%	1/4W	
R359	1-249-433-11	CARBON	22K	5%	1/4W	
R360	1-249-433-11	CARBON	22K	5%	1/4W	
R361	1-249-431-11	CARBON	15K	5%	1/4W	
R362	1-249-421-11	CARBON	2.2K	5%	1/4W	
R363	1-249-421-11	CARBON	2.2K	5%	1/4W	
R364	1-249-405-11	CARBON	100	5%	1/4W	
R365	1-249-405-11	CARBON	100	5%	1/4W	
R366	1-249-437-11	CARBON	47K	5%	1/4W	
R367	1-249-417-11	CARBON	1K	5%	1/4W	
R373	1-249-417-11	CARBON	1K	5%	1/4W	
R374	1-249-428-11	CARBON	8.2K	5%	1/4W	
R375	1-249-421-11	CARBON	2.2K	5%	1/4W	
R376	1-249-425-11	CARBON	4.7K	5%	1/4W	
R377	1-249-439-11	CARBON	68K	5%	1/4W	
R378	1-249-427-11	CARBON	6.8K	5%	1/4W	
R379	1-249-421-11	CARBON	2.2K	5%	1/4W	
R380	1-249-424-11	CARBON	3.9K	5%	1/4W	
R381	1-249-421-11	CARBON	2.2K	5%	1/4W	
R382	1-249-413-11	CARBON	470	5%	1/4W	
R383	1-249-429-11	CARBON	10K	5%	1/4W	
R385	1-247-903-00	CARBON	1M	5%	1/4W	
R386	1-249-417-11	CARBON	1K	5%	1/4W	
R500	1-249-433-11	CARBON	22K	5%	1/4W	
R501	1-215-459-00	METAL	39K	1%	1/6W	
R502	1-216-371-00	METAL OXIDE	1.5	5%	2W	F
R503	1-249-437-11	CARBON	47K	5%	1/4W	
R504	1-215-446-00	METAL	11K	1%	1/6W	
R505	1-216-453-00	METAL OXIDE	270	5%	2W	F
R507	1-249-439-11	CARBON	68K	5%	1/4W	
R510	1-249-393-11	CARBON	10	5%	1/4W	F
R511	1-249-436-11	CARBON	39K	5%	1/4W	
R513	1-249-425-11	CARBON	4.7K	5%	1/4W	
R516 ⚠	1-249-443-51	CARBON	0.47	5%	1/4W	F
R517 ⚠	1-216-355-91	METAL OXIDE	3.3	5%	1W	F
R518	1-249-482-11	CARBON	4.7	5%	1/2W	F
R519 ⚠	1-215-871-91	METAL OXIDE	2.2K	5%	1W	F
R521 ⚠	1-249-465-91	CARBON	47K	5%	1/4W	F

A X

- 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
R522	1-215-868-00	METAL OXIDE	680	5%	1W	F
R523	1-216-342-11	METAL OXIDE	0.27	5%	1W	F
R524	1-215-890-11	METAL OXIDE	470	5%	2W	F
R528	1-215-880-00	METAL OXIDE	10	5%	2W	F
R529	1-249-426-11	CARBON	5.6K	5%	1/4W	
R530	1-247-887-00	CARBON	220K	5%	1/4W	
R531	1-216-456-00	METAL OXIDE	820	5%	2W	F
R533	1-249-429-11	CARBON	10K	5%	1/4W	
R534	1-249-437-11	CARBON	47K	5%	1/4W	
R535	1-249-432-11	CARBON	18K	5%	1/4W	
R536	1-247-889-00	CARBON	270K	5%	1/4W	
R537	1-247-883-00	CARBON	150K	5%	1/4W	
R538	1-247-883-00	CARBON	150K	5%	1/4W	
R539	1-216-456-00	METAL OXIDE	820	5%	2W	F
R541	1-215-437-00	METAL	4.7K	1%	1/6W	
R542	1-249-441-11	CARBON	100K	5%	1/4W	
R544	1-247-903-00	CARBON	1M	5%	1/4W	
R545	1-247-903-00	CARBON	1M	5%	1/4W	
R546	1-247-891-00	CARBON	330K	5%	1/4W	
R547	1-247-903-00	CARBON	1M	5%	1/4W	
⋈R549⚠.		CARBON			1/4W	
R551	1-249-413-11	CARBON	470	5%	1/4W	
R552	1-249-405-11	CARBON	100	5%	1/4W	F
R553	1-249-401-11	CARBON	47	5%	1/4W	
R554	1-249-423-11	CARBON	3.3K	5%	1/4W	
R555	1-247-722-11	CARBON	5.6K	5%	1/4W	F
R556	1-249-455-11	CARBON	4.7	5%	1/4W	F
R558	1-215-890-11	METAL OXIDE	470	5%	2W	F
R559⚠	1-216-380-91	METAL OXIDE	8.2	5%	2W	F
R560	1-247-887-00	CARBON	220K	5%	1/4W	
R561	1-249-441-11	CARBON	100K	5%	1/4W	
R562	1-247-734-11	CARBON	39	5%	1/2W	F
R563	1-215-890-11	METAL OXIDE	470	5%	2W	F
⋈R567⚠.		CARBON			1/4W	
R568	1-249-431-11	CARBON	15K	5%	1/4W	
R569	1-249-425-11	CARBON	4.7K	5%	1/4W	
R570	1-249-439-11	CARBON	68K	5%	1/4W	
R571⚠.	1-213-048-51	FUSIBLE	3.3	5%	1W	F
R572⚠	1-216-377-91	METAL OXIDE	4.7	5%	2W	F
R573⚠	1-216-377-91	METAL OXIDE	4.7	5%	2W	F
R574	1-249-409-11	CARBON	220	5%	1/4W	F
R575	1-249-405-11	CARBON	100	5%	1/4W	
R601	1-249-443-11	CARBON	0.47	5%	1/4W	F
R606	1-216-425-11	METAL OXIDE	56	5%	1W	F
R620	1-249-440-11	CARBON	82K	5%	1/4W	
R621	1-249-429-11	CARBON	10K	5%	1/4W	
R622	1-249-441-11	CARBON	100K	5%	1/4W	
R624	1-249-435-11	CARBON	33K	5%	1/4W	
R625	1-249-423-11	CARBON	3.3K	5%	1/4W	
R626	1-249-434-11	CARBON	27K	5%	1/4W	
R1701	1-249-417-11	CARBON	1K	5%	1/4W	
R1702	1-249-417-11	CARBON	1K	5%	1/4W	
R1703	1-249-417-11	CARBON	1K	5%	1/4W	
R1704	1-249-417-11	CARBON	1K	5%	1/4W	
R1705	1-249-417-11	CARBON	1K	5%	1/4W	
R1706	1-249-417-11	CARBON	1K	5%	1/4W	
R1707	1-249-417-11	CARBON	1K	5%	1/4W	
R1708	1-249-417-11	CARBON	1K	5%	1/4W	
R1709	1-249-417-11	CARBON	1K	5%	1/4W	
R1710	1-249-417-11	CARBON	1K	5%	1/4W	
R1711	1-249-417-11	CARBON	1K	5%	1/4W	
R1712	1-249-417-11	CARBON	1K	5%	1/4W	
R1713	1-249-417-11	CARBON	1K	5%	1/4W	
R1714	1-249-429-11	CARBON	10K	5%	1/4W	
R1715	1-249-429-11	CARBON	10K	5%	1/4W	

<SPARK GAP>

SG501	1-519-422-11	GAP, SPARK	

<TRANSFORMER>

T500⚠.	1-439-455-11	TRANSFORMER ASSY, FLYBACK (NX-2300)	
T501⚠.	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	

<TUNER>

TU101⚠	1-463-771-11	TUNER, ET (BTP-201A)	

<CRYSTAL>

X101	1-577-082-11	VIBRATOR, CERAMIC	
X301	1-567-505-11	OSCILLATOR, CRYSTAL	

****

	*1-629-624-11	X BOARD			
		*******			
	*1-568-380-21	PIN, CONNECTOR 15P			

<CAPACITOR>

C251	1-124-499-11	ELECT	1MF	20%	50V
C252	1-136-157-00	FILM	0.022MF	5%	50V
C253	1-124-499-11	ELECT	1MF	20%	50V
C254	1-130-309-00	FILM	0.033MF	5%	100V
C255	1-124-499-11	ELECT	1MF	20%	50V
C256	1-124-478-11	ELECT	100MF	20%	25V
C257	1-124-927-11	ELECT	4.7MF	20%	50V
C258	1-124-902-00	ELECT	0.47MF	20%	50V
C259	1-124-499-11	ELECT	1MF	20%	50V
C260	1-124-499-11	ELECT	1MF	20%	50V
C261	1-124-499-11	ELECT	1MF	20%	50V
C262	1-124-499-11	ELECT	1MF	20%	50V
C263	1-124-499-11	ELECT	1MF	20%	50V
C264	1-123-875-11	ELECT	10MF	20%	50V
C265	1-136-170-00	FILM	0.27MF	5%	50V
C266	1-123-875-11	ELECT	10MF	20%	50V
C267	1-131-368-00	TANTALUM	3.3MF	10%	16V
C268	1-124-499-11	ELECT	1MF	20%	50V
C269	1-131-347-00	TANTALUM	1MF	20%	16V
C270	1-124-499-11	ELECT	1MF	20%	50V
C271	1-123-875-11	ELECT	10MF	20%	50V
C272	1-124-499-11	ELECT	1MF	20%	50V
C273	1-124-477-11	ELECT	47MF	20%	16V
C274	1-130-475-00	MYLAR	0.0022MF	5%	50V
C275	1-130-475-00	MYLAR	0.0022MF	5%	50V
C276	1-102-074-00	CERAMIC	0.001MF	10%	50V
C277	1-123-875-11	ELECT	10MF	20%	50V
C278	1-124-499-11	ELECT	1MF	20%	50V
C280	1-123-875-11	ELECT	10MF	20%	50V
C281	1-123-875-11	ELECT	10MF	20%	50V
C282	1-123-875-11	ELECT	10MF	20%	50V
C284	1-123-875-11	ELECT	10MF	20%	50V
C285	1-136-171-00	FILM	0.33MF	5%	50V
C286	1-136-175-00	FILM	0.68MF	5%	50V

X C

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
		<IC>				
IC251	8-752-035-54	IC CXA1264S				
		<RESISTOR>				
R251	1-249-409-11	CARBON	220	5%	1/4W	
R252	1-249-409-11	CARBON	220	5%	1/4W	
R253	1-249-409-11	CARBON	220	5%	1/4W	
R254	1-249-409-11	CARBON	220	5%	1/4W	
R255	1-249-420-11	CARBON	1.8K	5%	1/4W	
R256	1-249-405-11	CARBON	100	5%	1/4W	
R257	1-249-409-11	CARBON	220	5%	1/4W	
R258	1-249-409-11	CARBON	220	5%	1/4W	
R259	1-249-409-11	CARBON	220	5%	1/4W	
R260	1-249-409-11	CARBON	220	5%	1/4W	
R261	1-249-409-11	CARBON	220	5%	1/4W	
R262	1-249-409-11	CARBON	220	5%	1/4W	
R266	1-215-456-00	METAL	30K	1%	1/6W	
**********						
	*A-1330-949-A	C BOARD, COMPLETE				
		**********				
	*1-506-348-99	PIN, CONNECTOR 3P				
	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P				
	*1-564-511-11	PLUG, CONNECTOR 8P				
	*4-379-160-01	COVER (REAR LID), CV				
	*4-379-167-01	COVER (MAIN), CV				
		<CAPACITOR>				
C701	1-162-116-00	CERAMIC	680PF	10%	2KV	
C702	1-136-601-11	FILM	0.01MF	5%	630V	
C703	1-123-875-11	ELECT	10MF	20%	50V	
C704	1-123-946-00	ELECT	4.7MF	20%	250V	
C705	1-106-367-00	MYLAR	0.01MF	10%	200V	
C707	1-102-116-00	CERAMIC	680PF	10%	50V	
C708	1-102-116-00	CERAMIC	680PF	10%	50V	
C709	1-102-116-00	CERAMIC	680PF	10%	50V	
C710	1-102-117-00	CERAMIC	820PF	10%	50V	
C711	1-126-233-11	ELECT	22MF	20%	25V	
C712	1-102-116-00	CERAMIC	680PF	10%	50V	
C713	1-102-117-00	CERAMIC	820PF	10%	50V	
C714	1-162-622-11	CERAMIC	330PF	10%	6.3KV	
C715	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C718	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C719	1-126-233-11	ELECT	22MF	20%	25V	
C720	1-126-233-11	ELECT	22MF	20%	25V	
C721	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C730	1-102-116-00	CERAMIC	680PF	10%	50V	
C731	1-102-116-00	CERAMIC	680PF	10%	50V	
C732	1-102-116-00	CERAMIC	680PF	10%	50V	
		<DIODE>				
D701	8-719-911-19	DIODE 1SS119				
D702	8-719-911-19	DIODE 1SS119				
D703	8-719-911-19	DIODE 1SS119				
D704	8-719-911-19	DIODE 1SS119				
D705	8-719-911-19	DIODE 1SS119				
D706	8-719-911-19	DIODE 1SS119				
D707	8-719-911-19	DIODE 1SS119				
D708	8-719-911-19	DIODE 1SS119				
D709	8-719-911-19	DIODE 1SS119				
D710	8-719-901-83	DIODE 1SS83				
D711	8-719-901-83	DIODE 1SS83				
D712	8-719-901-83	DIODE 1SS83				
D713	8-719-901-83	DIODE 1SS83				
		<JACK>				
J701	1-540-071-11	SOCKET, PICTURE TUBE				
		<COIL>				
L701 ⚠	1-408-417-31	INDUCTOR	47UH			
L702	1-408-421-00	INDUCTOR	100UH			
L703	1-408-420-00	INDUCTOR	82UH			
L704	1-408-410-00	INDUCTOR	12UH			
L705	1-408-411-00	INDUCTOR	15UH			
L706	1-408-421-00	INDUCTOR	100UH			
L707	1-408-411-00	INDUCTOR	15UH			
		<TRANSISTOR>				
Q701	8-729-326-11	TRANSISTOR 2SC2611				
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q703	8-729-200-17	TRANSISTOR 2SA1091				
Q704	8-729-326-11	TRANSISTOR 2SC2611				
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q706	8-729-200-17	TRANSISTOR 2SA1091				
Q707	8-729-200-17	TRANSISTOR 2SA1091				
Q708	8-729-326-11	TRANSISTOR 2SC2611				
Q709	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q710	8-729-255-12	TRANSISTOR 2SC2551				
Q711	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q712	8-729-255-12	TRANSISTOR 2SC2551				
Q713	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q714	8-729-200-17	TRANSISTOR 2SA1091				
Q715	8-729-200-17	TRANSISTOR 2SA1091				
Q716	8-729-200-17	TRANSISTOR 2SA1091				
		<RESISTOR>				
R701	1-216-392-11	METAL OXIDE	1.8	5%	3W	F
R702	1-202-848-00	SOLID	680K	10%	1/2W	
R703	1-202-815-11	SOLID	47K	10%	1/2W	
R704	1-202-846-00	SOLID	470K	10%	1/2W	
R705	1-202-549-00	SOLID	100	10%	1/2W	
R706	1-202-838-00	SOLID	100K	10%	1/2W	
R707	1-202-842-11	SOLID	220K	10%	1/2W	
R708	1-202-818-00	SOLID	1K	10%	1/2W	
R709	1-202-818-00	SOLID	1K	10%	1/2W	
R710	1-202-818-00	SOLID	1K	10%	1/2W	
R711	1-202-837-00	SOLID	82K	10%	1/2W	
R712	1-202-842-11	SOLID	220K	10%	1/2W	
R713 ⚠	1-216-486-51	METAL OXIDE	8.2K	5%	3W	F
R714	1-249-409-11	CARBON	220	5%	1/4W	
R715	1-202-818-00	SOLID	1K	10%	1/2W	
R716 ⚠	1-216-486-51	METAL OXIDE	8.2K	5%	3W	F
R717	1-249-409-11	CARBON	220	5%	1/4W	
R718	1-249-409-11	CARBON	220	5%	1/4W	
R720 ⚠	1-216-486-51	METAL OXIDE	8.2K	5%	3W	F
R721	1-202-842-11	SOLID	220K	10%	1/2W	
R723	1-249-405-11	CARBON	100	5%	1/4W	
R724	1-249-405-11	CARBON	100	5%	1/4W	
R725	1-249-429-11	CARBON	10K	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.

C H2 K

REF.NO.	PART NO.	DESCRIPTION				REMARK
R726	1-249-407-11	CARBON	150	5%	1/4W	
R727	1-249 429-11	CARBON	10K	5%	1/4W	
R728	1-249-407-11	CARBON	150	5%	1/4W	
R729	1-249-405-11	CARBON	100	5%	1/4W	
R730	1-249-407-11	CARBON	150	5%	1/4W	
R731	1-247-704-11	CARBON	220	5%	1/4W	F
R732	1-247-704-11	CARBON	220	5%	1/4W	F
R733	1-247-704-11	CARBON	220	5%	1/4W	F
R739	1-249-433-11	CARBON	22K	5%	1/4W	
R740	1-215-902-11	METAL OXIDE	47K	5%	2W	F
R741	1-249-417-11	CARBON	1K	5%	1/4W	
R742	1-249-429-11	CARBON	10K	5%	1/4W	F
R743	1-249-429-11	CARBON	10K	5%	1/4W	F
R744	1-247-725-11	CARBON	10K	5%	1/4W	F
R745	1-247-713-11	CARBON	1K	5%	1/4W	F
R746	1-215-902-11	METAL OXIDE	47K	5%	1W	F
R747	1-247-725-11	CARBON	10K	5%	1/4W	F
R749	1-249-437-11	CARBON	47K	5%	1/4W	
R750	1-249-409-11	CARBON	220	5%	1/4W	
R751	1-249-397-11	CARBON	22	5%	1/4W	
R752	1-249-397-11	CARBON	22	5%	1/4W	
R753	1-249-397-11	CARBON	22	5%	1/4W	
R754	1-249-429-11	CARBON	10K	5%	1/4W	
R755	1-249-411-11	CARBON	330	5%	1/4W	
R757	1-249-425-11	CARBON	4.7K	5%	1/4W	
R777	1-249-441-11	CARBON	100K	5%	1/4W	

<VARIABLE RESISTOR>

RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
RV702⚠	1-230-619-11	RES, ADJ, METAL GLAZE 110M	

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*1-629-622-11	H2 BOARD	
	********	
*1-564-512-11	PLUG, CONNECTOR 9P	
*1-564-513-11	PLUG, CONNECTOR 10P	
*4-374-987-01	GUIDE, LIGHT	
*4-381-686-01	BRACKET (B), BAR, OPTICAL	

<CAPACITOR>

C52	1-124-499-11	ELECT	1MF	20%	50V
C53	1-124-902-00	ELECT	0.47MF	20%	50V
C55	1-102-114-00	CERAMIC	470PF	10%	50V

<DIODE>

D51	8-719-812-41	DIODE TLR124
	*4-374-906-01	HOLDER (TV/V), LED; D51
D52	8-719-812-41	DIODE TLR124
	*4-374-906-01	HOLDER (TV/V), LED; D52
D53	8-719-812-41	DIODE TLR124
	*4-374-906-01	HOLDER (TV/V), LED; D53
D54	8-719-911-19	DIODE 1SS119

<IC>

IC51	8-741-139-80	IC BX1398

<RESISTOR>

R53	1-249-409-11	CARBON	220	5%	1/4W
R54	1-249-437-11	CARBON	47K	5%	1/4W

<SWITCH>

S51 ⚠	1-571-532-21	SWITCH, TACTIL (POWER)
S52	1-571-532-21	SWITCH, TACTIL
S53	1-571-532-21	SWITCH, TACTIL
S54	1-571-532-21	SWITCH, TACTIL
S55	1-571-532-21	SWITCH, TACTIL
S56	1-571-532-21	SWITCH, TACTIL
S57	1-571-532-21	SWITCH, TACTIL

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*A-1385-052-A	K BOARD, COMPLETE	
	**********	
*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
*1-564-517-11	PLUG, CONNECTOR 2P	
*1-564-518-11	PLUG, CONNECTOR 3P	
*1-565-494-11	CONNECTOR, BOARD TO BOARD 18P	
*4-341-752-01	EYELET (EY2451,EY2452,EY2453,EY2454, EY2455,EY2456,EY2457,EY2458)	

<CAPACITOR>

C2451	1-124-257-00	ELECT	2.2MF	20%	50V
C2452	1-124-925-11	ELECT	2.2MF	20%	50V
C2453	1-126-096-11	ELECT	10MF	20%	35V
C2454	1-123-875-11	ELECT	10MF	20%	50V
C2456	1-136-170-00	FILM	0.27MF	5%	50V
C2457	1-124-925-11	ELECT	2.2MF	20%	50V
C2458	1-124-618-11	ELECT	2200MF	20%	35V
C2461	1-124-925-11	ELECT	2.2MF	20%	50V
C2462	1-126-233-11	ELECT	22MF	20%	25V
C2465	1-136-170-00	FILM	0.27MF	5%	50V
C2466	1-124-925-11	ELECT	2.2MF	20%	50V
C2469	1-124-925-11	ELECT	2.2MF	20%	50V
C2470	1-126-233-11	ELECT	22MF	20%	50V
C2471	1-124-499-11	ELECT	1MF	20%	50V
C2472	1-124-618-11	ELECT	2200MF	20%	35V
C2473	1-124-484-11	ELECT	220MF	20%	35V
C2474	1-124-484-11	ELECT	220MF	20%	35V
C2475	1-136-165-00	FILM	0.1MF	5%	50V
C2476	1-136-165-00	FILM	0.1MF	5%	50V
C2477	1-124-618-11	ELECT	2200MF	20%	35V
C2478	1-126-233-11	ELECT	22MF	20%	50V
C2479	1-124-499-11	ELECT	1MF	20%	50V
C2480	1-124-484-11	ELECT	220MF	20%	35V
C2481	1-124-484-11	ELECT	220MF	20%	35V
C2482	1-124-618-11	ELECT	2200MF	20%	35V
C2483	1-124-618-11	ELECT	2200MF	20%	35V
C2484	1-136-165-00	FILM	0.1MF	5%	50V
C2485	1-136-165-00	FILM	0.1MF	5%	50V
C2486	1-126-233-11	ELECT	22MF	20%	50V
C2487	1-126-233-11	ELECT	22MF	20%	50V

<DIODE>

D2451	8-719-911-19	DIODE 1SS119
D2452	8-719-911-19	DIODE 1SS119

<IC>

IC2451⚠	8-759-980-43	IC TDA2009A

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.

K **N** **U**

REF.NO.	PART NO.	DESCRIPTION				REMARK
IC2452⚠	8-759-980-43	IC TDA2009A				
		<IC LINK>				
PS2401	1-532-984-11	LINK, IC				
PS2402	1-532-984-11	LINK, IC				
		<TRANSISTOR>				
Q2451	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q2452	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q2455	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q2456	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q2457	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q2458	8-729-119-76	TRANSISTOR 2SA1175-HFE				
		<RESISTOR>				
R2424	1-215-421-00	METAL	1K	1%	1/6W	
R2425	1-215-409-00	METAL	330	1%	1/6W	
R2426	1-215-409-00	METAL	330	1%	1/6W	
R2427	1-215-421-00	METAL	1K	1%	1/6W	
R2433	1-215-437-00	METAL	4.7K	1%	1/6W	
R2438	1-215-437-00	METAL	4.7K	1%	1/6W	
R2439	1-249-441-11	CARBON	100K	5%	1/4W	
R2440	1-249-413-11	CARBON	470	5%	1/4W	
R2441	1-249-435-11	CARBON	33K	5%	1/4W	
R2442	1-249-441-11	CARBON	100K	5%	1/4W	
R2443	1-249-413-11	CARBON	470	5%	1/4W	
R2444	1-249-430-11	CARBON	12K	5%	1/4W	
R2445	1-249-430-11	CARBON	12K	5%	1/4W	
R2446	1-249-441-11	CARBON	100K	5%	1/4W	
R2447	1-249-439-11	CARBON	68K	5%	1/4W	
R2451	1-249-441-11	CARBON	100K	5%	1/4W	
R2452	1-249-441-11	CARBON	100K	5%	1/4W	
R2453	1-249-405-11	CARBON	100	5%	1/4W	
R2454	1-215-439-00	METAL	5.6K	1%	1/6W	
R2455	1-215-427-00	METAL	1.8K	1%	1/6W	
R2456	1-249-441-11	CARBON	100K	5%	1/4W	
R2457	1-249-441-11	CARBON	100K	5%	1/4W	
R2458	1-249-405-11	CARBON	100	5%	1/4W	
R2459	1-249-421-11	CARBON	2.2K	5%	1/4W	
R2460	1-249-421-11	CARBON	2.2K	5%	1/4W	
R2463	1-249-435-11	CARBON	33K	5%	1/4W	
R2464	1-249-441-11	CARBON	100K	5%	1/4W	
R2465	1-215-423-00	METAL	1.2K	1%	1/6W	
R2466	1-215-417-00	METAL	680	1%	1/6W	
R2468	1-215-387-00	METAL	39	1%	1/6W	
R2469	1-215-387-00	METAL	39	1%	1/6W	
R2470⚠	1-249-385-51	CARBON	2.2	5%	1/4W	F
R2471⚠	1-249-385-51	CARBON	2.2	5%	1/4W	F
R2473	1-249-421-11	CARBON	2.2K	5%	1/4W	
R2474	1-249-421-11	CARBON	2.2K	5%	1/4W	
R2483	1-215-439-00	METAL	5.6K	1%	1/6W	
R2484	1-215-427-00	METAL	1.8K	1%	1/6W	
R2487	1-249-430-11	CARBON	12K	5%	1/4W	
R2488	1-249-430-11	CARBON	12K	5%	1/4W	
R2489	1-215-423-00	METAL	1.2K	1%	1/6W	
R2491	1-215-387-00	METAL	39	1%	1/6W	
R2492	1-215-417-00	METAL	680	1%	1/6W	
R2493	1-215-387-00	METAL	39	1%	1/6W	
R2494⚠	1-249-385-11	CARBON	2.2	5%	1/4W	F
R2495⚠	1-249-385-11	CARBON	2.2	5%	1/4W	F
R2497	1-249-421-11	CARBON	2.2K	5%	1/4W	
R2498	1-249-421-11	CARBON	2.2K	5%	1/4W	

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*1-629-620-11	N BOARD					
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*1-564-505-11	PLUG, CONNECTOR 2P					
	<CAPACITOR>					
C890	1-124-925-11	ELECT	2.2MF	20%	50V	
C891	1-124-925-11	ELECT	2.2MF	20%	50V	

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*A-1394-173-A	U BOARD, COMPLETE					
	**********					
*1-564-519-11	PLUG, CONNECTOR 4P					
1-564-523-11	PLUG, CONNECTOR 8P					
*1-566-941-11	CONNECTOR, HINGE (TAB) 30P					
*1-568-377-11	CONNECTOR, HINGE (TAB) 7P					
*4-341-752-01	EYELET (EY1,EY2,EY3,EY4,EY5)					
	<CAPACITOR>					
C401	1-126-233-11	ELECT	22MF	20%	25V	
C402	1-101-004-00	CERAMIC	0.01MF		50V	
C403	1-124-499-11	ELECT	1MF	20%	50V	
C404	1-124-499-11	ELECT	1MF	20%	50V	
C405	1-126-233-11	ELECT	22MF	20%	25V	
C407	1-124-499-11	ELECT	1MF	20%	50V	
C408	1-124-499-11	ELECT	1MF	20%	50V	
C409	1-126-233-11	ELECT	22MF	20%	25V	
C410	1-123-875-11	ELECT	10MF	20%	50V	
C411	1-126-233-11	ELECT	22MF	20%	25V	
C413	1-124-499-11	ELECT	1MF	20%	50V	
C414	1-124-499-11	ELECT	1MF	20%	50V	
C415	1-126-233-11	ELECT	22MF	20%	25V	
C418	1-124-478-11	ELECT	100MF	20%	25V	
C419	1-124-478-11	ELECT	100MF	20%	25V	
C420	1-124-477-11	ELECT	47MF	20%	16V	
C421	1-126-103-11	ELECT	470MF	20%	16V	
C422	1-126-103-11	ELECT	470MF	20%	16V	
C423	1-101-004-00	CERAMIC	0.01MF		50V	
C424	1-126-233-11	ELECT	22MF	20%	25V	
C425	1-126-233-11	ELECT	22MF	20%	25V	
C426	1-124-477-11	ELECT	47MF	20%	16V	
C428	1-126-233-11	ELECT	22MF	20%	25V	
C429	1-124-589-11	ELECT	47MF	20%	16V	
C430	1-126-233-11	ELECT	22MF	20%	25V	
C431	1-124-478-11	ELECT	100MF	20%	25V	
C433	1-126-233-11	ELECT	22MF	20%	25V	
C434	1-126-233-11	ELECT	22MF	20%	25V	
C435	1-124-499-11	ELECT	1MF	20%	50V	
C436	1-124-499-11	ELECT	1MF	20%	50V	
C437	1-126-233-11	ELECT	22MF	20%	25V	
C438	1-126-233-11	ELECT	22MF	20%	25V	
C439	1-126-233-11	ELECT	22MF	20%	25V	
C440	1-124-477-11	ELECT	47MF	20%	16V	
C441	1-124-477-11	ELECT	47MF	20%	16V	
C442	1-126-233-11	ELECT	22MF	20%	25V	
C445	1-124-589-11	ELECT	47MF	20%	16V	
C462	1-124-589-11	ELECT	47MF	20%	16V	
C490	1-101-004-00	CERAMIC	0.01MF		50V	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
C491	1-124-477-11	ELECT	47MF	20%	16V	
C492	1-126-233-11	ELECT	22MF	20%	25V	
C493	1-124-477-11	ELECT	47MF	20%	16V	
C495	1-102-973-00	CERAMIC	100PF	5%	50V	
C1402	1-124-589-11	ELECT	47MF	20%	16V	
C1403	1-124-589-11	ELECT	47MF	20%	16V	
		<DIODE>				
D401	8-719-109-97	DIODE RD6.8ES-B2				
D402	8-719-109-97	DIODE RD6.8ES-B2				
D403	8-719-109-97	DIODE RD6.8ES-B2				
D408	8-719-109-97	DIODE RD6.8ES-B2				
D409	8-719-109-97	DIODE RD6.8ES-B2				
D410	8-719-109-97	DIODE RD6.8ES-B2				
D411	8-719-109-97	DIODE RD6.8ES-B2				
D415	8-719-110-17	DIODE RD10ES-B2				
D418	8-719-911-19	DIODE 1SS119				
D419	8-719-911-19	DIODE 1SS119				
D421	8-719-109-97	DIODE RD6.8ES-B2				
D422	8-719-109-97	DIODE RD6.8ES-B2				
D423	8-719-109-97	DIODE RD6.8ES-B2				
		<IC>				
IC401	8-759-710-68	IC NJM2245S				
IC402	8-759-710-68	IC NJM2245S				
IC405	8-759-710-69	IC NJM2233BS				
IC444	8-752-032-27	IC CXA1114P				
IC1401	8-759-710-69	IC NJM2233BS				
		<JACK>				
J401	1-565-931-11	TERMINAL BLOCK, S 3P				
J402	1-565-840-11	PIN JACK BLOCK 6P				
J403	1-565-931-11	TERMINAL BLOCK, S 3P				
J404	1-565-838-11	PIN JACK BLOCK 2P				
		<COIL>				
L401	1-408-412-00	INDUCTOR	18UH			
L404	1-410-663-31	INDUCTOR	10UH			
		<TRANSISTOR>				
Q401	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q402	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q403	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q404	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q405	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q406	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q407	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q408	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q409	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q410	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q411	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q412	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q413	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q414	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q415	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q416	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q491	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q492	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1401	8-729-119-78	TRANSISTOR 2SC2785-HFE				

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<RESISTOR>				
R401	1-247-804-11	CARBON	75	5%	1/4W	
R402	1-247-804-11	CARBON	75	5%	1/4W	
R403	1-249-434-11	CARBON	27K	5%	1/4W	
R404	1-247-885-00	CARBON	180K	5%	1/4W	
R405	1-247-885-00	CARBON	180K	5%	1/4W	
R406	1-249-434-11	CARBON	27K	5%	1/4W	
R407	1-247-804-11	CARBON	75	5%	1/4W	
R409	1-249-434-11	CARBON	27K	5%	1/4W	
R410	1-247-885-00	CARBON	180K	5%	1/4W	
R411	1-247-804-11	CARBON	75	5%	1/4W	
R413	1-249-434-11	CARBON	27K	5%	1/4W	
R414	1-247-885-00	CARBON	180K	5%	1/4W	
R415	1-249-434-11	CARBON	27K	5%	1/4W	
R416	1-247-885-00	CARBON	180K	5%	1/4W	
R417	1-247-895-00	CARBON	470K	5%	1/4W	
R418	1-249-417-11	CARBON	1K	5%	1/4W	
R419	1-247-895-00	CARBON	470K	5%	1/4W	
R420	1-249-417-11	CARBON	1K	5%	1/4W	
R421	1-247-804-11	CARBON	75	5%	1/4W	
R422	1-247-895-00	CARBON	470K	5%	1/4W	
R423	1-247-895-00	CARBON	470K	5%	1/4W	
R424	1-247-895-00	CARBON	470K	5%	1/4W	
R425	1-247-895-00	CARBON	470K	5%	1/4W	
R426	1-249-424-11	CARBON	3.9K	5%	1/4W	
R427	1-247-895-00	CARBON	470K	5%	1/4W	
R428	1-249-424-11	CARBON	3.9K	5%	1/4W	
R429	1-249-434-11	CARBON	27K	5%	1/4W	
R432	1-249-405-11	CARBON	100	5%	1/4W	
R433	1-249-413-11	CARBON	470	5%	1/4W	
R434	1-249-409-11	CARBON	220	5%	1/4W	
R435	1-249-403-11	CARBON	68	5%	1/4W	
R436	1-249-425-11	CARBON	4.7K	5%	1/4W	
R437	1-247-885-00	CARBON	180K	5%	1/4W	
R438	1-249-405-11	CARBON	100	5%	1/4W	
R439	1-249-413-11	CARBON	470	5%	1/4W	
R440	1-249-417-11	CARBON	1K	5%	1/4W	
R441	1-249-409-11	CARBON	220	5%	1/4W	
R447	1-249-409-11	CARBON	220	5%	1/4W	
R448	1-249-409-11	CARBON	220	5%	1/4W	
R449	1-249-413-11	CARBON	470	5%	1/4W	
R450	1-249-409-11	CARBON	220	5%	1/4W	
R451	1-249-421-11	CARBON	2.2K	5%	1/4W	
R452	1-249-433-11	CARBON	22K	5%	1/4W	
R457	1-249-405-11	CARBON	100	5%	1/4W	
R458	1-249-405-11	CARBON	100	5%	1/4W	
R459	1-249-417-11	CARBON	1K	5%	1/4W	
R460	1-249-405-11	CARBON	100	5%	1/4W	
R461	1-249-417-11	CARBON	1K	5%	1/4W	
R462	1-249-417-11	CARBON	1K	5%	1/4W	
R463	1-249-405-11	CARBON	100	5%	1/4W	
R465	1-249-417-11	CARBON	1K	5%	1/4W	
R466	1-249-405-11	CARBON	100	5%	1/4W	
R467	1-249-405-11	CARBON	100	5%	1/4W	
R468	1-249-433-11	CARBON	22K	5%	1/4W	
R469	1-249-433-11	CARBON	22K	5%	1/4W	
R470	1-249-403-11	CARBON	68	5%	1/4W	
R471	1-249-403-11	CARBON	68	5%	1/4W	
R472	1-249-403-11	CARBON	68	5%	1/4W	
R474	1-249-405-11	CARBON	100	5%	1/4W	
R475	1-249-417-11	CARBON	1K	5%	1/4W	
R476	1-249-433-11	CARBON	22K	5%	1/4W	

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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
R479	1-249-433-11	CARBON	22K	5%	1/4W	
R480	1-249-433-11	CARBON	22K	5%	1/4W	
R481	1-249-433-11	CARBON	22K	5%	1/4W	
R483	1-249-417-11	CARBON	1K	5%	1/4W	
R484	1-215-455-00	METAL	27K	1%	1/6W	
R485	1-215-475-00	METAL	180K	1%	1/6W	
R486	1-215-455-00	METAL	27K	1%	1/6W	
R487	1-215-475-00	METAL	180K	1%	1/6W	
R488	1-249-433-11	CARBON	22K	5%	1/4W	
R489	1-249-433-11	CARBON	22K	5%	1/4W	
R490	1-249-417-11	CARBON	1K	5%	1/4W	
R491	1-249-417-11	CARBON	1K	5%	1/4W	
R492	1-249-417-11	CARBON	1K	5%	1/4W	
R493	1-249-431-11	CARBON	15K	5%	1/4W	
R494	1-249-429-11	CARBON	10K	5%	1/4W	
R495	1-249-417-11	CARBON	1K	5%	1/4W	
R496	1-249-425-11	CARBON	4.7K	5%	1/4W	
R497	1-249-417-11	CARBON	1K	5%	1/4W	
R498	1-249-417-11	CARBON	1K	5%	1/4W	
R1401	1-249-405-11	CARBON	100	5%	1/4W	
R1402	1-249-405-11	CARBON	100	5%	1/4W	
R1403	1-249-417-11	CARBON	1K	5%	1/4W	
R1420	1-249-413-11	CARBON	470	5%	1/4W	
R1421	1-249-413-11	CARBON	470	5%	1/4W	
R1422	1-249-405-11	CARBON	100	5%	1/4W	
R1423	1-249-441-11	CARBON	100K	5%	1/4W	
R1424	1-249-429-11	CARBON	10K	5%	1/4W	
R1425	1-249-429-11	CARBON	10K	5%	1/4W	
		<SWITCH>				
S401	1-571-729-11	SWITCH, SLIDE				
S402	1-554-303-21	SWITCH, KEY BOARD				
	*1-629-628-11	FO BOARD				
		MISCELLANEOUS				
⚠	1-417-177-11	SELECTOR, ANTENNA (AS-1)				
⚠	1-426-350-21	COIL, DEMAGNETIZATION				
⚠	1-451-275-11	DEFLECTION YOKE (Y28PFA)				
	1-452-032-00	MAGNET,DISK; 10MM φ				
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM φ				
	1-503-917-11	SPEAKER				
	1-544-095-11	SPEAKER				
	*1-556-945-21	CABLE, P-P				
⚠	1-559-396-11	CORD, POWER				
	*1-568-507-11	CONNECTOR, BRIDGE 15P				
	8-741-159-30	IC SBX1593-01				
V901	⚠.8-737-753-05	PICTURE TUBE (A68JMT50X)				

ACCESSORIES AND PACKING MATERIALS

PART NO.	DESCRIPTION	REMARK
1-465-170-11	REMOTE COMMANDER (RM-763)	
1-562-443-11	CONNECTOR, ANTENNA	
3-750-053-21	MANUAL, INSTRUCTION	
3-750-053-31	MANUAL, INSTRUCTION (CND ONLY)	
*4-384-027-01	BAG, PROTECTION	
*4-393-649-01	CUSHION (UPPER) (ASSY)	
*4-393-650-01	CUSHION (LOWER) (ASSY)	
*4-393-651-01	INDIVIDUAL CARTON	

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