

SERVICE MANUAL

AA-2 CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>	<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
<i>KV-27S20</i>	<i>RM-Y135</i>	<i>US</i>	<i>SCC-J71A-A</i>	<i>KV-32S20</i>	<i>RM-Y135</i>	<i>US</i>	<i>SCC-J71C-A</i>
<i>KV-27S20</i>	<i>RM-Y135</i>	<i>Canadian</i>	<i>SCC-J73A-A</i>	<i>KV-32S20</i>	<i>RM-Y135</i>	<i>Canadian</i>	<i>SCC-J73B-A</i>
<i>KV-27S25</i>	<i>RM-Y136</i>	<i>US</i>	<i>SCC-J71B-A</i>	<i>KV-32S25</i>	<i>RM-Y136</i>	<i>US</i>	<i>SCC-J71D-A</i>
<i>KV-27S25</i>	<i>RM-Y136</i>	<i>Canadian</i>	<i>SCC-J73F-A</i>	<i>KV-32S25</i>	<i>RM-Y136</i>	<i>Canadian</i>	<i>SCC-J73C-A</i>
<i>KV-29RS20</i>	<i>RM-Y135</i>	<i>E</i>	<i>SCC-J74A-A</i>	<i>KV-34RS20C</i>	<i>RM-Y135</i>	<i>E</i>	<i>SCC-J74G-A</i>
<i>KV-29RS20C</i>	<i>RM-Y135</i>	<i>E</i>	<i>SCC-J74E-A</i>				
<i>KV-29RS25</i>	<i>RM-Y136</i>	<i>E</i>	<i>SCC-J74B-A</i>				
<i>KV-29RS25C</i>	<i>RM-Y136</i>	<i>W</i>	<i>SCC-J74F-A</i>				
<i>KV-29SD1</i>	<i>RM-Y135</i>	<i>E</i>	<i>SCC-J74C-A</i>				
<i>KV-29PS1</i>	<i>RM-Y135</i>	<i>E</i>	<i>SCC-J74D-A</i>				

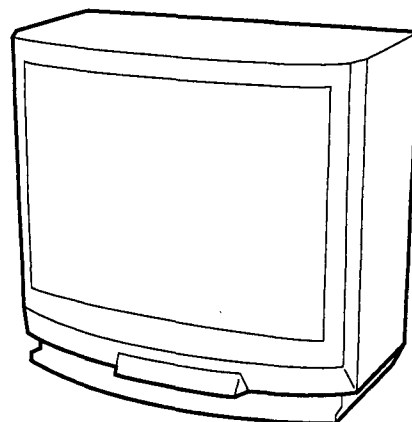
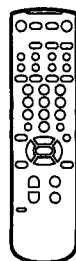
Note :

1. Adjustment Manual for this model is separately published.

	Adjustment Manual
Part No.	9-965-811-01



996581001



TRINITRON® COLOR TV
SONY®

※ Please file according to model size. ■

27 29 32 34

Specifications

	Model number			Notes
	KV-27S20 KV-29PS1 KV-29RS20 KV-29RS20C KV-29SD1			
			KV-32S20 KV-34RS20C	
Television system	American TV standard			
Channel coverage	VHF: 2-13 / UHF: 14-69 / CATV: 1-125			
Antenna	75-ohm external antenna terminal for VHF/UHF			
Picture tube	Hi Black Trinitron® tube			
Screen size (in.)	27		32	Measured diagonally
Number of inputs/outputs				
Video	1		1	1 Vp-p, 75 ohms unbalanced, sync negative
S video	0		0	Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms
Audio	1		1	500 mVrms (100% modulation), Impedance: 47 kilohms
Monitor out	0		0	1 Vp-p, 75 ohms unbalanced, sync negative
Audio out	1		1	More than 408 mVrms at the maximum volume setting (variable) More than 408 mVrms (fix) Impedance: 5 kilohms
Speaker output (W)	5W × 2		5W × 2	
Power requirements	a KV-27S20/29PS1/29RS20/ 29SD1		a KV-32S20	a= 120V, 60 Hz b= 220 V, 50/60 Hz
	b KV-29RS20C		b KV-34RS20C	
Power consumption (W)	160 W (Max.)		180 W (Max.)	
When in use	9 W		9 W	
Dimensions (W/H/D) (mm) (in.)	660.4 × 602.5 × 521.2 mm (26 × 23 ³ / ₄ × 20 ⁵ / ₈ in.)		781 × 712.1 × 582.5 mm (30 ³ / ₄ × 28 ¹ / ₈ × 23 in.)	
Mass (kg) (lbs)	40.6 kg (89 lbs 8 oz)		64.3 kg (141 lbs 12 oz)	

Supplied accessories

Remote commander RM-Y135 (1)
Size AA (R6) battery (2)

Optional accessories

Connecting cables VMC-810S/820S, VMC-720M, YC-15V/30V, RK-74A
TV stand SU-27A (KV-27S20/ /29PS1/29RS20/29RS20C/
29SD1/ only)
TV stand SU-32A (KV-32S20/34RS20C only)
U/V mixer EAC-66

Design and specifications are subject to change without notice.

●® SRS (SOUND RETRIEVAL SYSTEM)

The ● SRS (SOUND RETRIEVAL SYSTEM) is manufactured by Sony Corporation under license from SRS Labs Inc. It is covered by U.S. Patent No. 4,748,669. Other U.S. and foreign patents pending.

The word 'SRS' and the SRS symbol (●) are registered trademarks of the SRS Labs, Inc.

Specifications

	Model number KV-27R525				KV-29R525		KV-29R525C	
Television system	American TV standard							
Channel coverage	VHF: 2-13 / UHF: 14-69 / CATV: 1-125							
Antenna	75-ohm external antenna terminal for VHF/UHF							
Picture tube	Hi Black Trinitron® tube							
Screen size (in.)	27-inch picture measured diagonally							
Power requirements	120 V, 60 Hz	120 V, 60 Hz	120 V, 60 Hz	120 V, 60 Hz	120 V, 60 Hz	120 V, 60 Hz	220 V, 50/60Hz	
Number of inputs/ outputs								
Video¹⁾	2				2		2	
S video²⁾	1				1		1	
Audio³⁾	2				2		2	
Audio out⁴⁾	1				1		1	
Monitor out¹⁾	–				–		–	
TV out¹⁾	–				–		–	
S-Link	–				–		–	
Speaker output (W)	5W × 2				5W × 2		5W × 2	
Power consumption (W)								
When in use (Max.)	165W				165W		165W	
In standby	9W				9W		9W	
Dimensions (W/H/D) (mm)	660.4 × 602.5 × 521.2 mm				660.4 × 602.5 × 521.2 mm		660.4 × 602.5 × 521.2 mm	
(in.)	26 × 23 ³ / ₄ × 20 ⁵ / ₈ in.				26 × 23 ³ / ₄ × 20 ⁵ / ₈ in.		26 × 23 ³ / ₄ × 20 ⁵ / ₈ in.	
Mass (kg)	40.6 kg				40.6 kg		40.6 kg	
(lbs)	89 lbs 8 oz				89 lbs 8 oz		89 lbs 8 oz	

¹⁾ 1 Vp-p, 75 ohms unbalanced, sync negative

²⁾ Y: 1 Vp-p, 75 ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75 ohms

³⁾ 500 mVrms (100% modulation), Impedance: 47 kilohms

⁴⁾ More than 408 mVrms at the maximum volume setting (variable)
More than 408 mVrms (fix)
Impedance: 5 kilohms

Model number
KV-32S25

Television system	American TV standard
Channel coverage	VHF: 2-13 / UHF: 14-69 / CATV: 1-125
Antenna	75-ohm external antenna terminal for VHF/UHF
Picture tube	Hi Black Trinitron® tube
Screen size (in.)	32-inch picture measured diagonally
Power requirements	120 V, 60 Hz
Number of inputs/ outputs	
Video¹⁾	2
S video²⁾	1
Audio³⁾	2
Audio out⁴⁾	1
Monitor out¹⁾	-
TV out¹⁾	-
S-Link	-
Speaker output (W)	5W × 2
Power consumption (W)	
When in use (Max.)	185W
In standby	9W
Dimensions (W/H/D) (mm)	781 × 712.1 × 582.5 mm
(in.)	30 ³ / ₄ × 28 ¹ / ₈ × 23 in.
Mass (kg)	64.3 kg
(lbs)	141 lbs 12 oz

- ¹⁾ 1 Vp-p, 75 ohms unbalanced, sync negative
- ²⁾ Y: 1 Vp-p, 75 ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75 ohms
- ³⁾ 500 mVrms (100% modulation), Impedance: 47 kilohms
- ⁴⁾ More than 408 mVrms at the maximum volume setting (variable)
More than 408 mVrms (fix)
Impedance: 5 kilohms

Supplied accessories

Remote commander RM-Y136 (1) (KV-27S25/ /29RS25/
29RS25C/32S25
only)

Size AA (R6) battery (2)

Optional accessories

Connecting cables VMC-810S/820S, VMC-720M, YC-15V/30V,
RK-74A
TV Stand SU-27A (KV-27S25/ /29RS25/
29RS25C/ only)
TV Stand SU-32A (KV-32S25 only)

U/V mixer EAC-66

Design and specifications are subject to change without notice.

Feature packages

Model number	Feature	One-tuner Pip	Two-tuner Pip	S-Link/LightSensor/ SRS/Clock/Timer	Tilt correction
KV-27S25		•			
KV-29RS25		•			
KV-29RS25C		•			
KV-32S25		•			

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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, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords 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 0.5mA (500 microamperes). 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 0.75V, 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 2V 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)

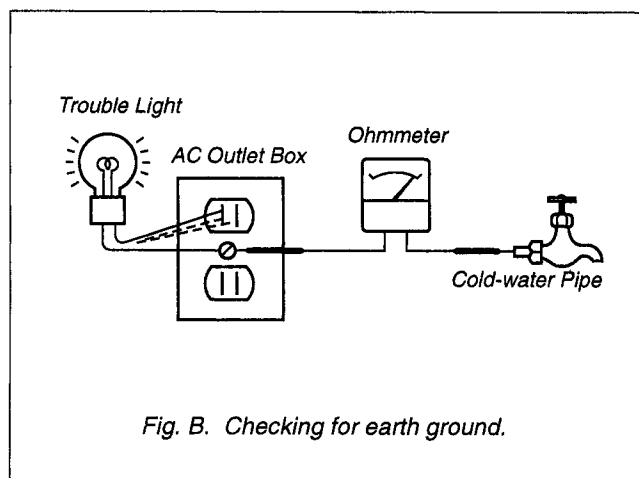
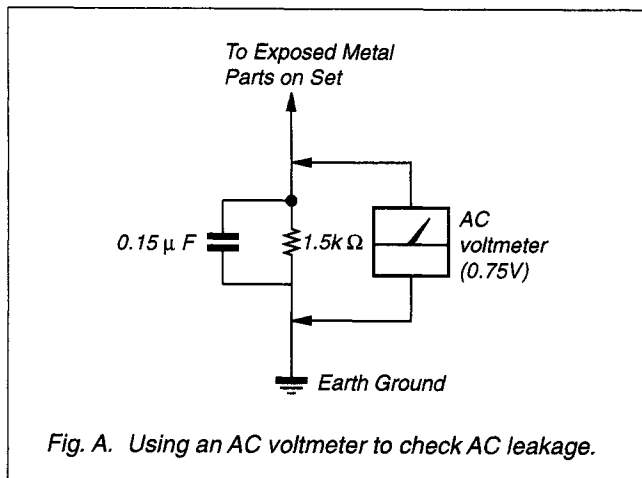


TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>	<u>Section</u>	<u>Title</u>	<u>Page</u>
1. GENERAL					
	Hook up	7	2-3-2.	Service Position (G Board)	22
	Setting up the remote commander	10	2-4-1.	Picture Tube Removal	22
	Setting up the TV automatically (AUTO SET UP)	10	2-4-2.	Picture Tube Removal (KV-27S20/27S25/29PS1/29SD1/29RS20/29RS20C/ 29RS25/29RS25C)	22
	Changing the menu language	11	2-4-3.	Picture Tube Removal (KV-32S20/32S25/34RS20C)	22
	Watch the TV	12	3. SAFETY RELATED ADJUSTMENTS		
	Adjusting the picture (VIDEO)	13	24		
	Selecting the video mode (VIDEO)	13	4. DIAGRAMS		
	Adjusting picture brightness automatically (LIGHTSENSOR)	13	4-1.	Block Diagrams	27
	Adjusting the sound (AUDIO)	14	4-2.	Circuit Boards Location	30
	Using audio effect (EFFECT)	14	4-3.	Printed Wiring Boards and Schamatic Diagrams	30
	Selecting stereo or bilingual programs (MTS)	15		• A Board	33
	Setting the speaker switch (SPEAKER)	15		• G Board	37
	Setting audio out	15		• P Board (KV-27S25/29RS20C/29RS25/32S25)	37
	Setting daylight saving time (DAYLIGHT SAVING)	15		• C Board	39
	Setting the colck (CURRENT TIME SET)	16	4-4.	IC Block Diagrams	41
	Setting the timer to turn the TV on and off (ON/OFF TIMER)	16	4-4.	Semiconductions	43
	Customizing the channel names (CHANNEL CAPTION) ..	16	5. EXPLODED VIEWS		
	Blocking out a channel (CHANNEL BLOCK)	17	5-1.	Picture Tube	44
	Setting your favorite channels (FAVORITE CHANNEL)	17	5-2.	Picture Tube	45
	Setting Caption Vision (CAPTION VISION)	18	6. ELECTRICAL PARTS LIST		
	Operating video equipment	18	46		
	Operating a cable box DBS receiver	19			
	Troubleshooting	19			
	Watching two programs at a time-PIP	20			
2. DISASSEMBLY					
2-1-1.	Rear Cover Removal (KV-27R20/27S25/29PS1/29SD1/ 29RS20/29RS20C/29RS25/29RS25C)	21			
2-1-2.	Rear Cover Removal (KV-32S20/32S25/34RS20C)	21			
2-2.	A And B Boards Removal	21			
2-3-1.	Service Position (A Board)	21			

(CAUTION)

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

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 FOR 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 FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

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

ATTENTION!!

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

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE ! SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÉCES 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 IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1 GENERAL

The operation instruction mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual. (Part no: 3-810-852-21)

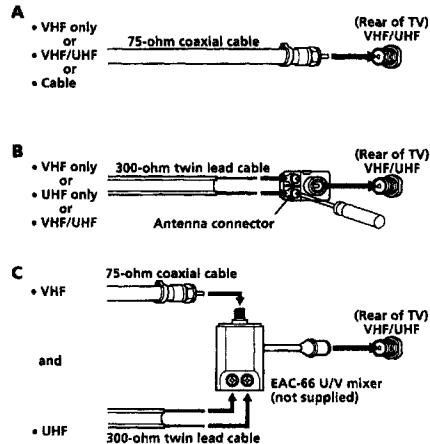
Getting Started

Step 1: Hookup

Although you can use either an indoor or outdoor antenna with your TV, we recommend that you connect an outdoor antenna or a cable TV system to get better picture quality.

How to connect different types of cables

The illustrations below show examples of connecting cables to the TV directly.



- Notes**
- Most VHF/UHF combination antennas have a signal splitter. Remove the splitter before attaching the appropriate connector.
 - If you use the U/V mixer, snow and noise may appear in the picture when viewing cable TV channels over 37.

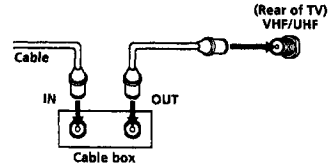
Connecting an antenna/cable TV system without a VCR

If your cable company requires you to connect a cable box, make the connection as follows:

Cable or antenna



Cable box

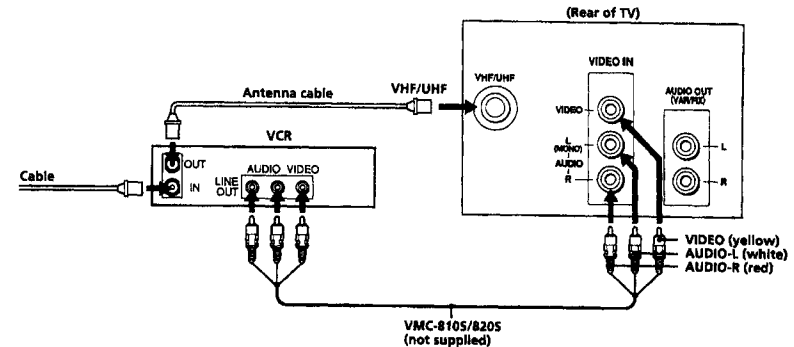


Connecting an antenna/cable TV system with a VCR

To connect your VCR to the TV, first check the model number of your TV and select the corresponding connection. For details on connection, see the instruction manual of your VCR.

Before making the connection, disconnect the AC power cords of the equipment to be connected.

Without a cable box



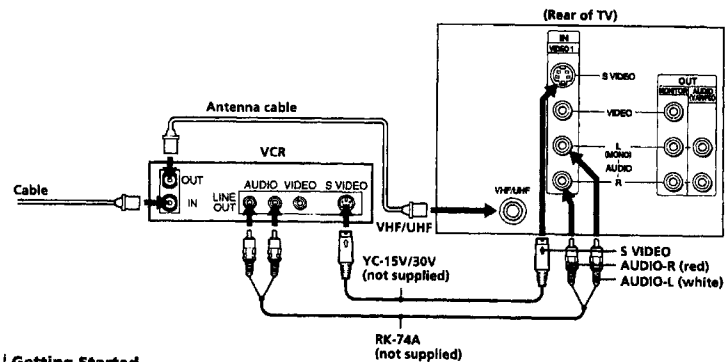
Note

- To connect a monaural VCR, connect the audio output of the VCR to AUDIO-L (mono) of VIDEO IN on the TV.

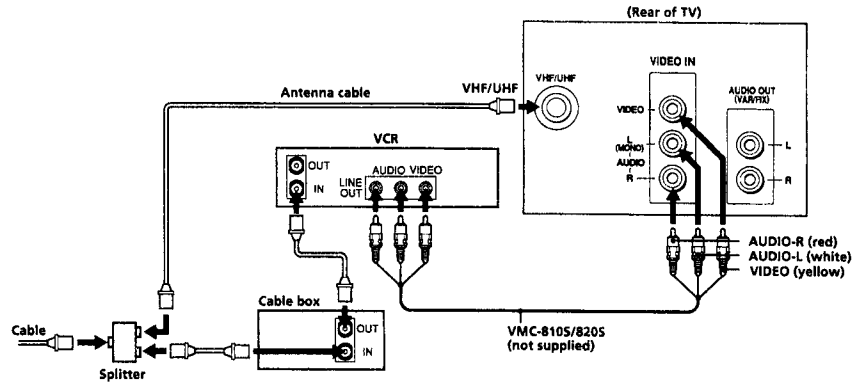
To an S video equipped VCR without a cable box

■ KV-27V20/29V20M only

If your VCR has an S video output jack, make the following connections.



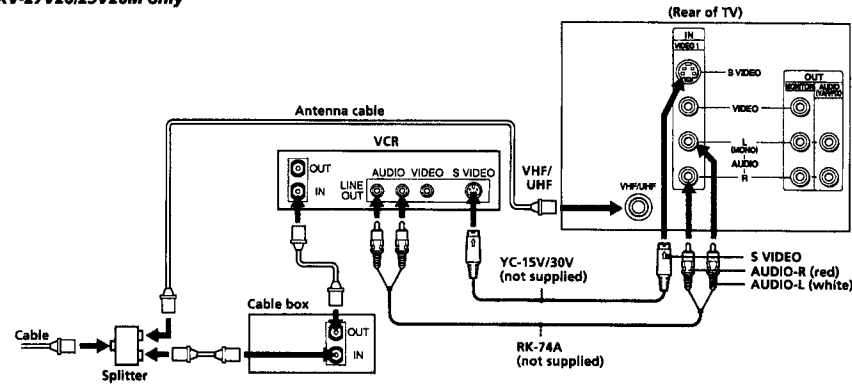
With a cable box



- Note**
- To connect a monaural VCR, connect the audio output of the VCR to AUDIO-L (mono) of VIDEO IN on the TV.

To an S video equipped VCR with a cable box

■ KV-27V20/29V20M only

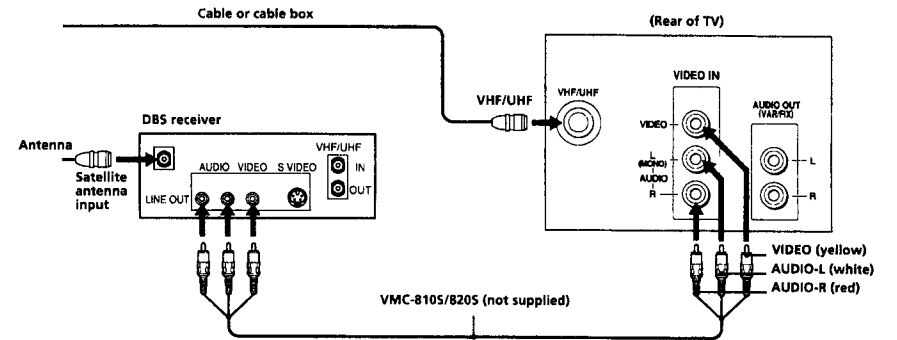


- Note**
- Video signals are composed of Y (luminance) and C (chroma) signals. The S connection sends the two signals separately preventing degradation, and gives better picture quality compared to conventional connections.

Connecting a DBS receiver

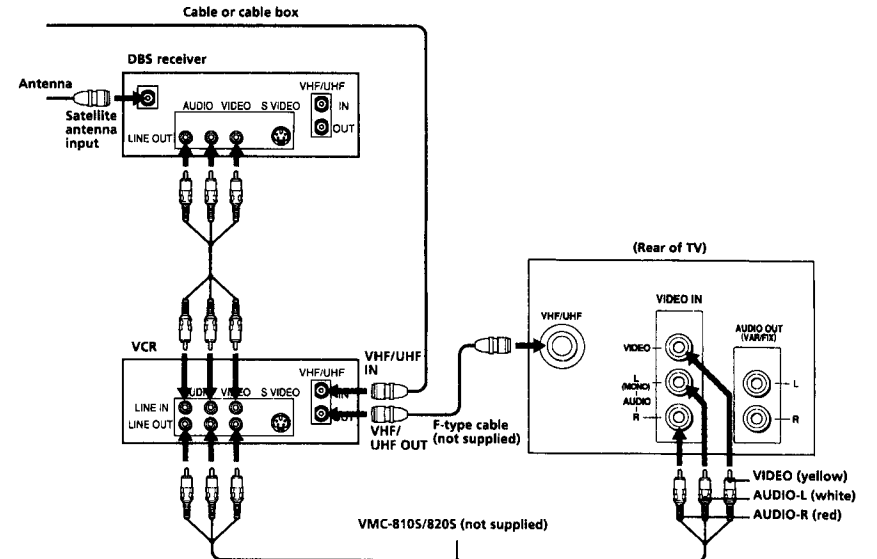
For connection details, see the instruction manual of the DBS (Digital Broadcasting Satellites) receiver.

To a TV



- Note**
- You can use the S VIDEO jack or the composite video jack for the video connection.

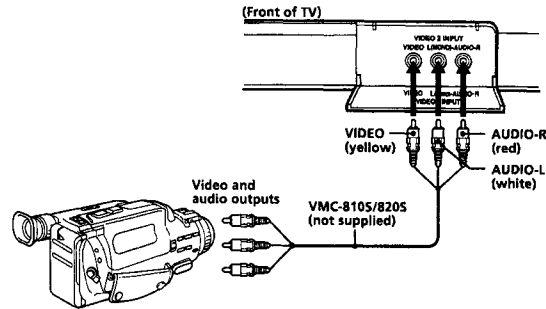
To a TV and VCR



Connecting a camcorder

■ KV-27V20/29V20M only

This connection is convenient for viewing a camcorder picture.

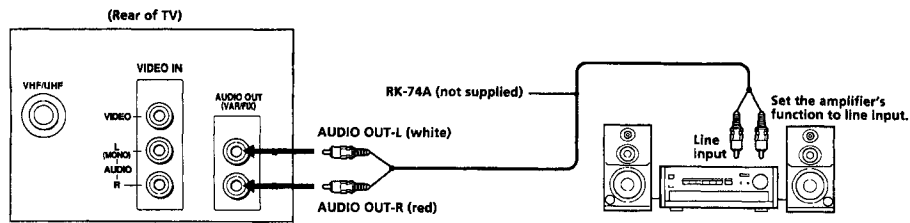


Note

- To connect a monaural camcorder, connect the audio output of the camcorder to AUDIO-L (mono) of VIDEO 2 INPUT on the TV.

Connecting an audio system

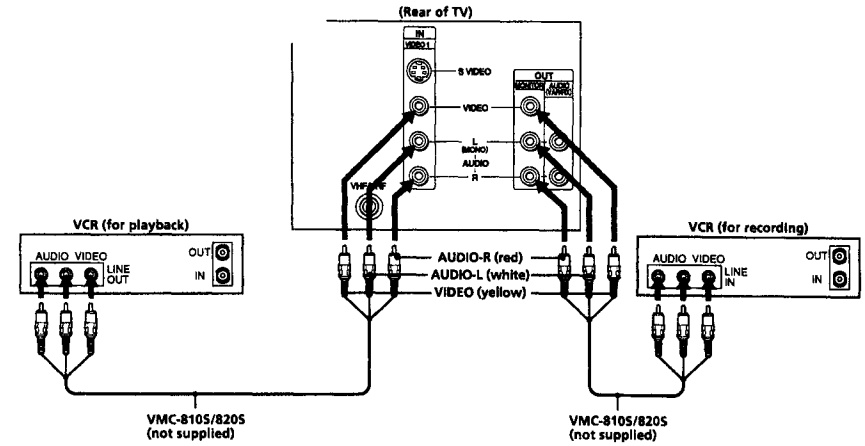
When connecting audio equipment, see pages 21-22 for more information.



Connecting two VCRs for tape editing using MONITOR OUT

■ KV-27V20/29V20M only

MONITOR OUT allows you to record a program that is on the screen.

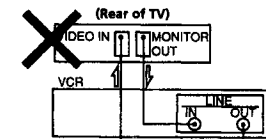


The above type of connection should only be used when you connect from the line input of one VCR, and from the line output of a second VCR.

Notes

- Do not change the input signal while editing through MONITOR OUT, or the output signal will also change.
- You can use the S video jack to connect a VCR for playback and the composite video jack to connect a VCR for recording.

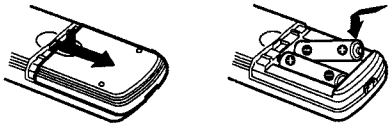
- When connecting a single VCR to the TV, do not connect the MONITOR OUT jacks at the rear of the TV to the VCR's line input, while at the same time connecting from the TV's VIDEO IN jacks to the VCR's line output, as shown below.



Step 2: Setting up the remote commander

Inserting batteries

Insert two size AA (R6) batteries (supplied) by matching the + and – on the battery to the diagram inside the battery compartment.



Notes

- Under normal conditions, batteries will last up to six months. If the remote commander does not operate properly or the indicators of the buttons on the remote commander do not light up, the batteries may be worn out. When replacing batteries, replace both of them with new ones.
- Do not mix old batteries with new ones or mix different types of batteries together.
- If the electrolyte inside the battery should leak, wipe the contaminated area of the battery compartment with a cloth and replace the old batteries with new ones. To prevent the electrolyte from leaking, remove the batteries when you don't plan to use the remote commander for a long period of time.
- Do not handle the remote commander roughly. Do not drop it, step on it or let it get wet.
- Do not place the remote commander in direct sunlight, near a heater, or where the humidity is high.

Getting to know buttons on the remote commander

Names of buttons on the remote commander are indicated in different colors to represent the available functions.

Button color

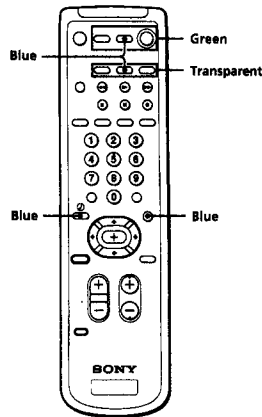
Transparent TV/VCR/DBS/Cable box function (light up) buttons. Press the appropriate function button first to change the remote commander's function.

Green Buttons relevant to power operations.

Label color

White TV/VCR/DBS/Cable box operation buttons.

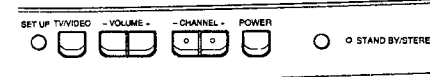
Blue DBS operation buttons.



Step 3: Setting up the TV automatically (AUTO SET UP)

You can set up your TV easily by using the AUTO SET UP feature. It presets all the receivable channels. To set up the TV manually, see "Setting cable TV on or off" (page 14) and "Presetting channels" (page 14).

(Front of TV)



Before you start using AUTO SET UP, be sure to connect the antenna or cable to the TV (see page 5).

1 Press POWER to turn on the TV.

The AUTO SET UP screen appears.

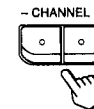


Note

- The AUTO SET UP screen appears whenever you press the POWER button if you do not execute AUTO PROGRAM.

2 (Except Canadian models)

Press CHANNEL + to select English screens or CHANNEL – to select Spanish screens.



3 Press VOLUME –.



"AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed. If the TV receives cable TV channels, CABLE is set to ON automatically.

To perform AUTO SET UP again

- 1 Press SET UP on the TV.
- 2 (Except Canadian models) Press CHANNEL + or CHANNEL – to select the language.
- 3 Press VOLUME –. The picture and sound settings will be set to the factory preset conditions.
- 4 Press CHANNEL +. "AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels.
- 5 Press CHANNEL – to exit the AUTO SET UP menu.

To exit AUTO PROGRAM

Press any button.

Note

- If the TV is set to a video input, you cannot execute AUTO SET UP. Press TV (black button) so that a channel number appears.

To browse the main functions (DEMO)

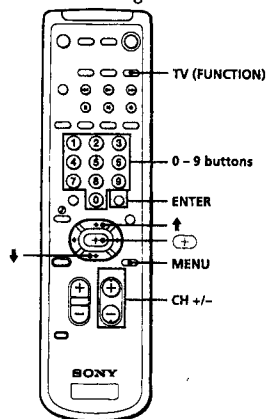
Press TV/VIDEO on the TV in step 3. The functions and menus are displayed one by one.

To exit DEMO

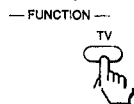
Press any button.

Erasing or adding channels

After AUTO SET UP, you can erase unnecessary channels or add the channels you want. Preset channels during the day rather than late at night, when some channels may not be broadcasting.



1 Press TV (FUNCTION).



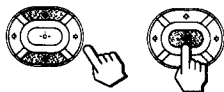
2 Press MENU.

The main menu appears.



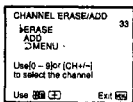
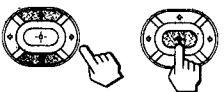
3 Press + or + to select , and press .

The SET UP menu appears.




4 Press + or + to select CHANNEL ERASE/ADD, and press .

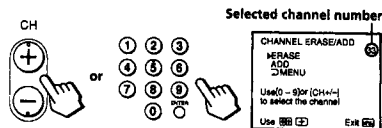
The CHANNEL ERASE/ADD menu appears.



5 Erase and/or add channels:

To erase an unwanted channel

- Make sure the cursor () is beside ERASE.
- Press CH +/- or the 0-9 buttons to select the channel you want to erase, and press ENTER.




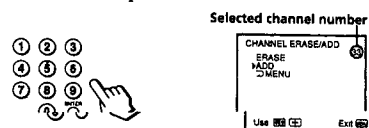
- Press .


The “-” indication appears beside the channel number, showing that the channel is erased from the preset memory.



To add a channel that you want

- Press + or + to move the cursor () to ADD.
- Press the 0-9 buttons to select the channel you want to add, and press ENTER.



- Press .

The “+” indication appears beside the channel number, showing that the channel is added to the preset memory.



6 To erase and/or add other channels, repeat step 5.

7 Press MENU to return to the original screen.



Note

- If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and vice versa.



Setting cable TV on or off

If you have connected the TV to a cable TV system, set CABLE to ON (the factory setting). If not, set CABLE to OFF. You do not have to do this procedure if you execute AUTO SET UP (page 12). Do this procedure only when you want to set it manually.

1 Press MENU.

2 Press + or + to select , and press .

3 Set CABLE to ON or OFF:

- Press + or + to select CABLE, and press .
- Press + or + to select ON or OFF, and press .



4 Press MENU to return to the original screen.

Note

- If CABLE appears in gray, the TV is set to a video input and you cannot select CABLE. Press TV (black button) so that a channel number appears.

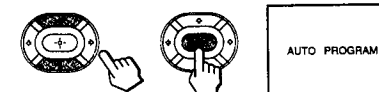
Presetting channels

You can preset TV channels easily by using the AUTO PROGRAM feature. You do not have to do this procedure if you execute AUTO SET UP (page 12). Do this procedure only when you want to set it manually.

1 Press MENU.

2 Press + or + to select , and press .

3 Press + or + to select AUTO PROGRAM, and press .



4 Press MENU to return to the original screen.

To exit AUTO PROGRAM

Press any button.

Note

- If the AUTO PROGRAM menu appears in gray, the TV is set to a video input and you cannot select AUTO PROGRAM. Press TV (black button) so that a channel number appears.

Changing the menu language

■ Except Canadian models

If you prefer Spanish to English, you can change the menu language. You do not have to do this procedure if you select the language during AUTO SET UP (page 12).

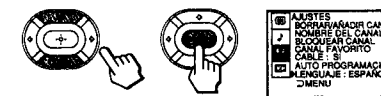
1 Press MENU.

2 Press + or + to select , and press .

3 Press + or + to select LANGUAGE, and press .



4 Press + or + to select your favorite language, “ENGLISH” or “ESPAÑOL,” and press .

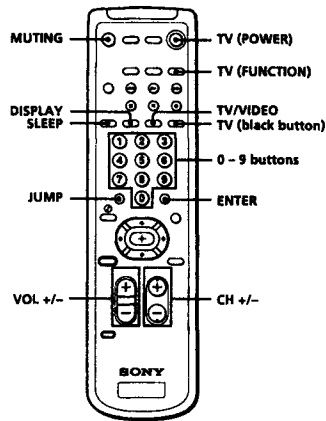


5 Press MENU to return to the original screen.

Note

- Certain parts of the Spanish menus remain in English.

Watching the TV

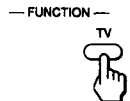


1 Press TV (POWER) to turn on the TV.



If "VIDEO" appears on the screen, press TV (black button) so that a channel number appears.

2 Press TV (FUNCTION).



Once you press TV (FUNCTION), the TV function is set unless another function button is pressed.

3 Select the channel you want:

To select a channel directly
Press the 0-9 buttons, and press ENTER.

To scan through channels
Press CH +/- until the channel you want appears.



The channel can also be selected without pressing ENTER.

4 Press VOL +/- to adjust the volume.



Switching quickly between two channels

You can use the JUMP button to switch or "jump" back and forth between two channels.

Press JUMP.



Pressing JUMP again switches back the channel.

Note

- You cannot jump to channels you scanned through using the CH +/- buttons.

Muting the sound

Press MUTING.

"MUTING" appears on the screen.

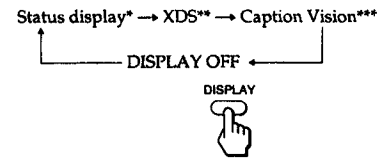


To restore the sound, press MUTING again, or press VOL +.

Displaying on-screen information

Press DISPLAY repeatedly until the desired display appears.

Each time you press DISPLAY, the display changes as follows:



* Channel number, the current time (only for available models), channel caption (if set), and MTS mode (if SAP is selected) are displayed. SAP indication disappears after three seconds.

** Some programs are broadcast with XDS (Extended Data Service) which shows a network name, program name, program type, program length, call letters, and time of the show. When you select XDS with the DISPLAY button, this information will be displayed on the screen if the broadcaster offers this service.

*** Some programs are broadcast with Caption Vision. When you select Caption Vision with the DISPLAY button, Caption Vision will be displayed on the screen if the broadcaster offers this service. (See page 27 for selecting Caption Vision.)

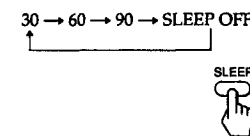
To cancel the display, press DISPLAY repeatedly until "DISPLAY OFF" appears. "DISPLAY OFF" goes off after three seconds.

Setting the Sleep Timer

The TV stays on for the length of time you specify and then shuts off automatically.

Press SLEEP repeatedly until the time (minutes) you want appears.

Each time you press SLEEP, the time changes as follows:



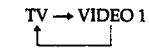
To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP OFF" appears, or turn the TV off.

Watching a video input picture

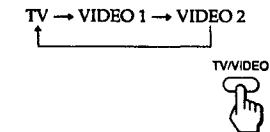
Press TV/VIDEO repeatedly until the desired video input appears.

Each time you press TV/VIDEO, the display changes as follows:

■ **KV-27S20/29PS1/29RS20/29RS20C/29SD1/32S20/34RS20C only**



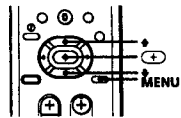
■ **KV-27V20/29V20M only**



To return to the TV picture, press TV (black button) so that a channel number appears.

Adjusting the picture (VIDEO)

When watching TV programs, you can adjust the picture to suit your taste. You can adjust the picture of video input(s) as well. These settings are stored separately from those for the TV picture.



1 Press MENU.

2 Press + or + to select , and press +.



3 Select the item you want to adjust.

For example:

(1) To adjust the brightness, press + or + to move the cursor (▶) to BRIGHTNESS.

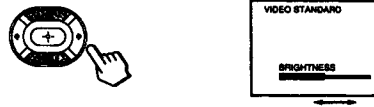


(2) Press +.



4 Adjust the selected item:

(1) Press + or + to adjust the item.



(2) Press +.

The new setting appears in the VIDEO menu.



For details on each item, see "Description of adjustable items" below.

5 To adjust other items, repeat steps 3 and 4.

6 Press MENU to return to the original screen.

Description of adjustable items

Item	Press + to	Press + to
PICTURE	Decrease picture contrast and give soft color.	Increase picture contrast and give vivid color.
HUE	Make picture tones become purplish.	Make picture tones become greenish.
COLOR	Decrease color intensity.	Increase color intensity.
BRIGHTNESS	Darken the picture.	Brighten the picture.
SHARPNESS	Soften the picture.	Sharpen the picture.

To restore the factory settings

Press RESET while the VIDEO menu is displayed. All the settings are restored to the factory settings.

Selecting the video mode (VIDEO)

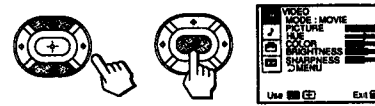
The video mode feature allows you to choose three different modes of picture settings. Choose the one that best suits the type of program that you want to watch.

1 Press MENU.

2 Press + or + to select , and press +.

3 Press + or + to select MODE, and press +.

4 Press + or + to select STANDARD, MOVIE, or SPORTS mode, and press +.



Choose	To
STANDARD	Receive a standard picture.
MOVIE	Receive a finely detailed picture.
SPORTS	Receive a vivid, bright picture.

5 Press MENU to return to the original screen.

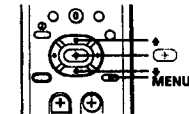
Note

- The settings for these modes can be adjusted in the VIDEO menu.

Adjusting picture brightness automatically (LIGHTSENSOR)

■ KV-27V20/29V20M only

The LightSensor feature adjusts the brightness of the picture automatically according to the ambient brightness.



1 Press MENU.

2 Press + or + to select , and press +.

3 Press + or + to select LIGHTSENSOR, and press +.



4 Press + or + to select ON or OFF, and press +.



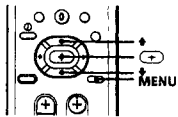
5 Press MENU to return to the original screen.

Note

- The LightSensor function may malfunction if you stand or place objects in front of the TV.

Adjusting the sound (AUDIO)

You can adjust the TV sound to suit your taste. You can adjust the sound of the video input(s) as well. These settings are stored separately from those for the TV sound.



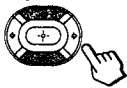
1 Press MENU.

2 Press + or + to select J, and press .

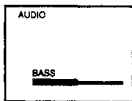


3 Select the item you want to adjust.
For example:

(1) To adjust bass, press + or + to move the cursor (▶) to BASS.

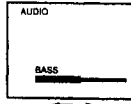
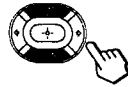


(2) Press .



4 Adjust the selected item:

(1) Press + or + to adjust the item.



(2) Press .

The new setting appears in the AUDIO menu.



For details on each item, see "Description of adjustable items" below.

5 To adjust other items, repeat steps 3 and 4.

6 Press MENU to return to the original screen.

Description of adjustable items

Item	Press + to	Press + to
TREBLE	Decrease the treble response.	Increase the treble response.
BASS	Decrease the bass response.	Increase the bass response.
BALANCE	Emphasize the left speaker's volume.	Emphasize the right speaker's volume.

To restore the factory settings

Press RESET while the AUDIO menu is displayed.

Note

- When SPEAKER (page 21) is OFF and AUDIO OUT (page 22) is in the FIXED condition, the volume, TREBLE, BASS, and BALANCE cannot be adjusted.

Using audio effect (EFFECT)

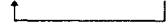
Using the (audio effect) button

■ For KV-27S20/29P51/29RS20/29RS20C/29SD1/32S20/34RS20C only

Press .

Each time you press the button, the display changes as follows:

SURROUND → SURROUND OFF



■ For KV-27V20/29V20M only

Press .

Each time you press the button, the display changes as follows:

SRS → SIMULATED → EFFECT OFF

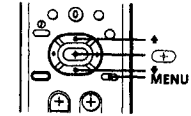


Choose	To
SURROUND	Simulate sound reproduction with the atmosphere of a movie theater or a concert hall. Surround sound is only effective for stereo programs.
SRS	When the program's audio signal is stereo or encoded, SRS expands the material and embraces you with dynamic three-dimensional sound.
SIMULATED	Receive monaural sound with a surround-like effect.

Note

- To use the button function, press TV (FUNCTION).

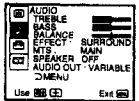
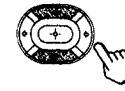
Using the menu to set audio effect



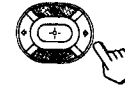
1 Press MENU.

2 Press + or + to select J, and press .

3 Press + or + to select EFFECT, and press .



4 Press + or + to select the audio effect mode, and press .

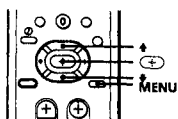


5 Press MENU to return to the original screen.

Selecting stereo or bilingual programs (MTS)

(MTS)

The Multichannel TV Sound (MTS) feature allows you to enjoy stereo sound or Second Audio Programs (SAP) of your choice. The initial setting is stereo sound (MAIN).



- 1 Press MENU.
- 2 Press + or + to select \downarrow , and press \oplus .
- 3 Press + or + to select MTS, and press \oplus .



- 4 Press + or + to select MAIN, SAP, or MONO, and press \oplus .



Choose	To
MAIN	Listen to stereo sound. The STEREO indicator on the TV lights up when a stereo broadcast is received.
SAP	Listen to bilingual programs. There is no sound when the SAP signal is not broadcasting.
MONO	Listen to monaural sound. Reduce noise during stereo broadcasts.

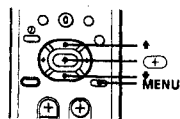
- 5 Press MENU to return to the original screen.

Note

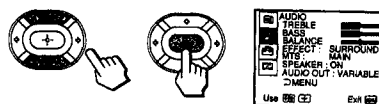
- Stereo and SAP sounds are subject to program sources.

Setting the speaker switch (SPEAKER)

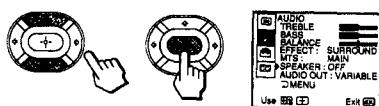
You may switch off the TV speakers when, for example, you want to listen to the sound through a stereo system.



- 1 Press MENU.
- 2 Press + or + to select \downarrow , and press \oplus .
- 3 Press + or + to select SPEAKER, and press \oplus .



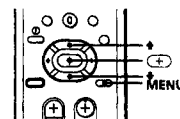
- 4 Press + or + to select ON or OFF, and press \oplus .



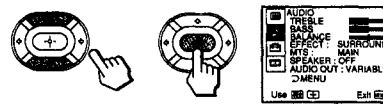
- 5 Press MENU to return to the original screen.

Setting audio out (AUDIO OUT)

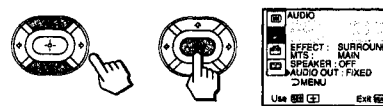
You can change AUDIO OUT to VARIABLE or FIXED when SPEAKER is set to OFF. AUDIO OUT is variable when SPEAKER is set to ON.



- 1 Press MENU.
- 2 Press + or + to select \downarrow , and press \oplus .
- 3 Press + or + to select AUDIO OUT, and press \oplus .



- 4 Press + or + to select VARIABLE or FIXED, and press \oplus .



VARIABLE: Sound output varied according to the TV settings. You can adjust the volume, bass, treble, and balance.

FIXED: Sound output is always fixed to a certain level. The volume, bass, treble, and balance are also fixed to the factory settings.

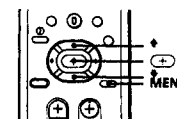
- 5 Press MENU to return to the original screen.

Note

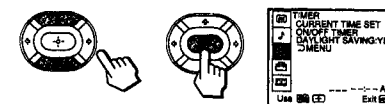
- If AUDIO OUT appears in gray, set SPEAKER to OFF.

Setting daylight saving time (DAYLIGHT SAVING)

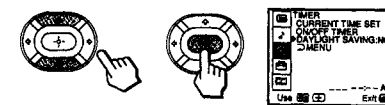
■ KV-27V20I29V20M only



- 1 Press MENU.
- 2 Press + or + to select \downarrow , and press \oplus .
- 3 Press + or + to select DAYLIGHT SAVING, and press \oplus .



- 4 Press + or + to select YES or NO, and press \oplus .



Choose To

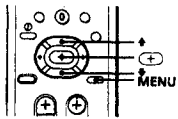
YES	Set for daylight saving start. The current time automatically moves one hour ahead.
NO	Set for daylight saving end.

- 5 Press MENU to return to the original screen.

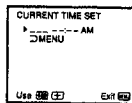
Setting the clock (CURRENT TIME SET)

KV-27V20/29V20M only

Setting the clock enables you to turn the TV on and off with the timer. Make sure to set daylight saving time first.



- 1 Press **MENU**.
- 2 Press **+** or **+** to select **0**, and press **ENTER**.
- 3 Press **+** or **+** to select **CURRENT TIME SET**, and press **ENTER**.

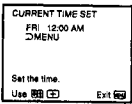
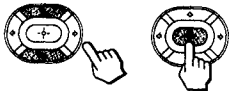


- 4 Make sure the cursor (**▶**) is to the left of "--:-- AM," and press **ENTER**.

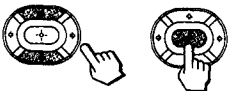


- 5 Set the current time.

- (1) Press **+** or **+** to set the day, and press **ENTER**.



- (2) Set the hour and minutes in the same way as in step (1). When you press **ENTER** after setting the minutes, the clock starts.

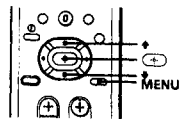


- 6 Press **MENU** to return to the original screen.

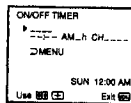
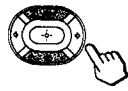
Setting the timer to turn the TV on and off (ON/OFF TIMER)

KV-27V20/29V20M only

You can set the TV to turn on and off at the times you specify. Make sure the clock is set correctly. If it is not, set the clock first.



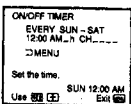
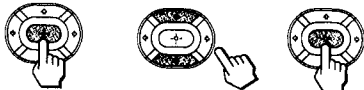
- 1 Press **MENU**.
- 2 Press **+** or **+** to select **0**, and press **ENTER**.
- 3 Press **+** or **+** to select **ON/OFF TIMER**, and press **ENTER**.



- 4 Press **ENTER** and enter the ON/OFF TIMER setting.

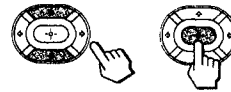
- (1) Press **+** or **+** to set the day(s), and press **ENTER**.

Each time you press **+** or **+**, the days cycle as follows:
 EVERY SUN-SAT → EVERY MON-FRI →
 SUNDAY → ... → SATURDAY → EVERY
 SUNDAY → ... → EVERY SATURDAY



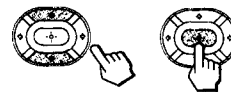
(continued)

- (2) Press **+** or **+** to set the time (hour then minutes) that you want to turn on the TV, and press **ENTER**.

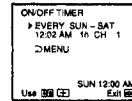
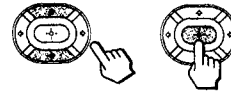


- (3) Press **+** or **+** to set the time duration, and press **ENTER**.

Each time you press **+**, the time duration increases by one hour up to a maximum of six hours.



- (4) Press **+** or **+** to select the channel, and press **ENTER**.



The **TIMER** indicator on the TV lights up.

- 5 Press **MENU** to return to the original screen.

One minute before the TV turns off, the message "TV will be off soon." is displayed on the screen.

To cancel the timer

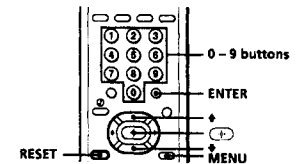
In step 3 or 4, press **RESET**.

Note

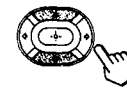
- If you unplug the TV or a power interruption occurs, the ON/OFF TIMER setting will be erased. Reset the current time, then set the timer.

Customizing the channel names (CHANNEL CAPTION)

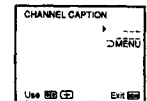
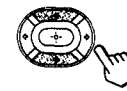
You can add a caption for up to 12 channels. This feature allows you to easily identify which channel you are watching. You can make your own caption.



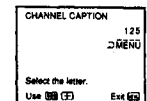
- 1 Press **MENU**.
- 2 Press **+** or **+** to select **0**, and press **ENTER**.



- 3 Press **+** or **+** to select **CHANNEL CAPTION**, and press **ENTER**.



- 4 Press **ENTER** and press **+** or **+** to select the channel that you want to caption, and press **ENTER**.

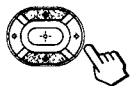


5 Enter the letters (up to four) to caption the channel:

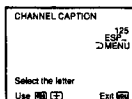
(1) Press **▲** or **▼** to select the first letter.

Each time you press **▲** or **▼**, the letter changes as follows:

0 ← 1 ← ... ← 9 ← A ← B ← ... ← Z ← & ← / ← _ (blank space)



(2) Press **↵**.



(3) Repeat steps (1) and (2) to select the remaining letters, and press **↵**.

6 To caption other channels, repeat steps 4 and 5.

7 Press MENU to return to the original screen.

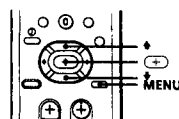
After you customize the channel, the channel caption appears green.

To erase a caption
In step 5, press **RESET**.

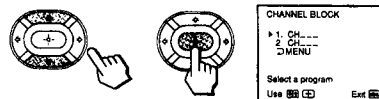
- Notes**
- If the CHANNEL CAPTION menu appears in gray, the TV is set to a video input, and you cannot select CHANNEL CAPTION. Press TV (black button) so that a channel number appears.
 - If more than 90 seconds elapse after you press a button, the menu disappears automatically.

Blocking out a channel (CHANNEL BLOCK)

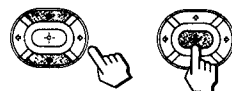
The channel block feature allows you to prevent children from watching unsuitable programs. You can block out two channels.



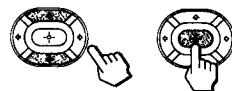
- 1 Press **MENU**.
- 2 Press **▲** or **▼** to select **⊞**, and press **↵**.
- 3 Press **▲** or **▼** to select **CHANNEL BLOCK**, and press **↵**.



4 Press **▲** or **▼** to select **1** or **2**, and press **↵**.

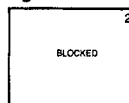


5 Press **▲** or **▼** to select the channel which you want to block out, and press **↵**.



6 Press **MENU** to return to the original screen.

When you select the blocked channel "BLOCKED" appears on the screen.



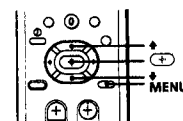
To cancel a CHANNEL BLOCK setting
In step 4 or 5, press **RESET**.

- Note**
- Once you use CHANNEL BLOCK, Caption Vision and XDS of the blocked channel and the selected channel output from TV OUT/MONITOR OUT are also blocked out.

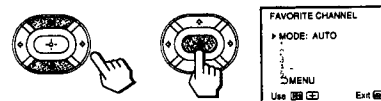
Setting your favorite channels (FAVORITE CHANNEL)

The favorite channel feature allows your TV to memorize your favorite channels easily. If you set to AUTO, the last five channels you selected with the 0-9 buttons are automatically set as your favorite channels. If you want to input your own selection of channels, set to MANUAL.

Setting your favorite channels



- 1 Press **MENU**.
- 2 Press **▲** or **▼** to select **⊞**, and press **↵**.
- 3 Press **▲** or **▼** to select **FAVORITE CHANNEL**, and press **↵**.



4 Press **↵** and press **▲** or **▼** to select **AUTO** or **MANUAL**, and press **↵**.



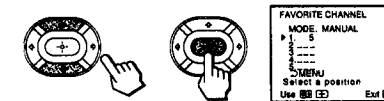
If you select **AUTO**, skip steps 5 and 6. The last five channels you selected with the 0-9 buttons are automatically set as your favorite channels.

If you select **MANUAL**, the favorite channel numbers become white, indicating that favorite channels can be entered.

5 Press ▲ or ▼ to select a favorite channel number, and press ↵.



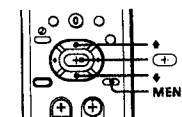
6 Press ▲ or ▼ to select the channel that you want to set as your favorite channel, and press ↵.



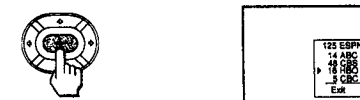
7 Press MENU to return to the original screen.

- Notes**
- If the FAVORITE CHANNEL menu appears in gray, the TV is set to a video input and you cannot select FAVORITE CHANNEL.
 - If more than 90 seconds elapse after you press another button, the menu disappears automatically.

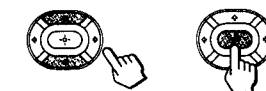
Selecting your favorite channel



1 Press **↵**.
The FAVORITE CHANNEL menu appears.



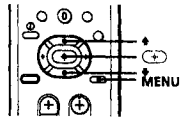
2 Press **▲** or **▼** to select the favorite channel you want to watch, and press **↵**.
The selected channel appears on the screen.



To cancel the FAVORITE CHANNEL menu
Press **▲** or **▼** to select "Exit," and press **↵**.

Setting Caption Vision (CAPTION VISION)

Some programs are broadcast with Caption Vision. To display Caption Vision, select either CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3, or TEXT4 from the menu. CC1, CC2, CC3, or CC4 shows you a caption, that is a printed version of the dialogue or sound effects of a program. (The mode should be set to CC1 for most programs.) TEXT1, TEXT2, TEXT3, or TEXT4 shows you text, that is information presented using either half or the whole screen. It is not usually related to the program.



1 Press MENU.

2 Press + or + to select and press -.



3 Press + or + to select the caption type, and press +.



4 Press MENU to return to the original screen.

To display Caption Vision

Press DISPLAY. (See page 16 for details.)

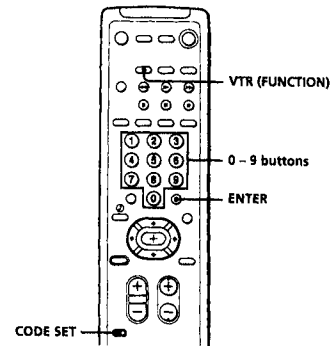
Notes

- Poor reception of TV programs can cause errors in Caption Vision and XDS. Captions may appear with a white box or other errors instead of a certain word.
- XDS, Caption Vision, and the status display cannot be used at the same time.
- For details on XDS, see page 16.

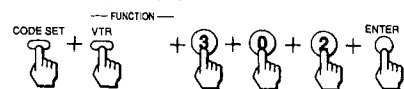
Operating video equipment

You can use the supplied remote commander to operate Sony or non-Sony video equipment that has an infrared remote sensor. For this operation, set the manufacturer's code number.

Setting the manufacturer's code



Press the CODE SET, VTR (FUNCTION), and 0-9 buttons to enter the manufacturer's code number (see the chart in the following page), then press ENTER. For example, to operate a Sony 8 mm VCR, press CODE SET, VTR (FUNCTION), 3, 0, 2, and ENTER.



(continued)

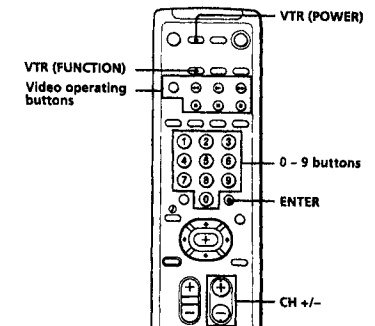
VCR manufacturer code numbers

Manufacturer	Code number
Sony	301, 302, 303
Aiwa	338
Audio Dynamic	314, 337
Bell & Howell (M. Wards)	330, 343
Brocsonic	319
Canon	309, 308
Citizen	332
Craig	315, 302, 332
Curtis Mathis	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318
Fisher	330, 334, 335, 333
Funai	338
General Electric	329, 304, 309
Goldstar	332
Hitachi	306, 304, 305
Instant Replay	309, 308
JC Penny	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 333, 334, 330, 335
Magnavox	308, 309
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309
Pioneer	308
Quasar	308, 309
RCA/PROSCAN	304, 305, 308, 309, 311, 312, 313
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Singer	315
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M. Wards)	338, 327
Sylvania	308, 309, 338
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	330, 314, 336, 337
Zenith	331

Notes

- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied remote commander. This is because your equipment may use a code that is not included with this remote commander. In this case, please use the equipment's own remote control unit.
- The code numbers for Sony equipment are assigned at the factory as follows:
VHS VCR 301 (preset code for the supplied remote commander)
8 mm VCR 302
Beta, ED Beta VCRs 303
- Whenever you remove the batteries — to replace them, for example — if too much time is taken, the code numbers may revert to the factory settings and must be reset.

Operating video equipment



Use the video operating buttons on the remote commander to operate the video equipment. Press VTR (FUNCTION) before operating the video equipment.

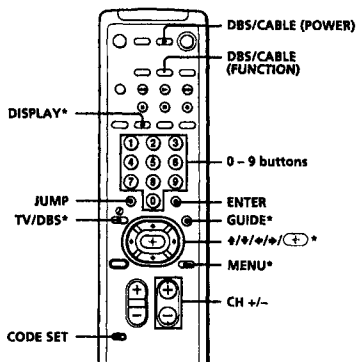
Operating a VCR	Buttons on the remote commander
To turn on or off	Press VTR (POWER).
To select a channel directly	Press the 0-9 buttons.
To change channels	Press CH +/-.
To record	Press while pressing . First release , then release .
To play	Press .
To stop	Press .
To fast forward	Press .
To rewind the tape	Press .
To pause	Press .
	To resume normal playback, press again.
To search the picture forward or backward	Press or during playback.
	To resume normal playback, release the button.
To change input mode	Press TV/VTR.

Note

- If the video equipment does not have a certain function, the corresponding button on this remote commander will not operate.

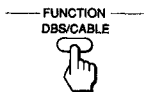
Operating a cable box or DBS receiver

You can program the supplied remote commander to operate a cable box or DBS receiver. Follow the procedures below to set the manufacturer's code number in the remote commander.

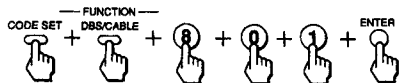


* The TV/DBS, GUIDE, DISPLAY, $\blacktriangle/\blacktriangleright/\blacktriangleleft/\blacktriangleleft$, and MENU buttons can be used only with a DBS receiver.

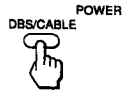
- 1 Turn off the equipment you want to set up, and press DBS/CABLE (FUNCTION).



- 2 Press the CODE SET, DBS/CABLE (FUNCTION), and 0-9 buttons to enter the manufacturer's code number (see the chart), then press ENTER. For example, to program your remote commander to operate a Sony DBS receiver, press CODE SET, DBS/CABLE (FUNCTION), 8, 0, 1, and ENTER.



- 3 Press DBS/CABLE (POWER) to turn on the cable box or DBS receiver.



- 4 Use the cable box/DBS control buttons to check if the code number works.

For example, to operate a cable box or DBS receiver, you can use the DBS/CABLE (POWER), JUMP, CH +/-, 0-9 and ENTER buttons.

Note

- If the cable box or DBS receiver does not have a certain function, the corresponding button on this remote commander will not operate.

To operate the TV

Press TV (FUNCTION). Then use the TV control buttons to control the TV.

For more details on operating the cable box or DBS receiver

Refer to the operating instructions that come with the equipment.

If the remote commander doesn't work

- First, try repeating the setup procedures using the other codes listed for your equipment.

Manufacturer code numbers (cable box)

Manufacturer	Code number
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G. I.	201, 202, 203, 204, 205, 206, 207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	210, 211
Tocom	216, 217
Zenith	212, 213

Manufacturer code numbers (DBS receiver)

Manufacturer	Code number
Sony	801 (preset code for the supplied remote commander)

Notes

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, your equipment may use a code that is not provided with this remote commander and you may not be able to operate your equipment with the supplied remote commander. In this case, use the equipment's own remote control unit.
- Whenever you remove the batteries — to replace them, for example — if too much time is taken, the code numbers may revert to the factory setting and must be reset.

Additional Information

Troubleshooting

If the problem persists after trying the methods below, contact your nearest Sony dealer.

No picture (screen not lit), no sound

- ➔ Make sure the power cord is connected securely.
- ➔ Operate with the buttons on the TV.
- ➔ Insert the batteries in the remote commander with the correct polarity.
- ➔ Replace the batteries with new ones if they are weak.
- ➔ Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO1 or 2.
- ➔ Try another channel. It could be station trouble.
- ➔ Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (page 12)

Poor or no picture (screen lit), good sound

- ➔ Adjust PICTURE in the VIDEO menu. (page 17)
- ➔ Adjust BRIGHTNESS in the VIDEO menu. (page 17)
- ➔ Check antenna/cable connections.
- ➔ Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (page 12)
- ➔ Remove objects from the front of TV.
- ➔ Check the LIGHTSENSOR setting in the VIDEO menu. (page 18)

Good picture, no sound

- ➔ Press MUTING so that "MUTING" disappears from the screen. (page 15)
- ➔ Check the MTS setting in the AUDIO menu. (page 21)
- ➔ Make sure SPEAKER is set to ON in the AUDIO menu. (page 21)
- ➔ Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (page 12)

No color

- ➔ Adjust the COLOR in the VIDEO menu. (page 17)
- ➔ Black and white programs cannot be seen in color.
- ➔ Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (page 12)

Only snow and noise appear on the screen

- ➔ Check the CABLE setting in the SET UP menu. (page 14)
- ➔ Check the antenna/cable connections.
- ➔ Make sure the channel is broadcasting programs.
- ➔ Press TV (black button) to change the input mode. (page 16)

Dotted lines or stripes

- ➔ Adjust the antenna.
- ➔ Move the TV away from noise sources such as cars, neon signs, and hair-dryers.

Double images or ghosts

- ➔ Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).

Cannot operate menu

- ➔ If the item you want to choose appears in gray, you cannot select it. Press TV/VIDEO correctly.

Cannot receive upper channels (UHF) when using an antenna

- ➔ Make sure CABLE is OFF in the SET UP menu. (page 14)
- ➔ Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (pages 13, 14)

Cannot receive any channels when using cable TV

- ➔ Make sure CABLE is ON in the SET UP menu. (page 14)
- ➔ Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (pages 13, 14)

Remote commander does not operate

- ➔ Batteries could be weak. Replace the batteries.
- ➔ Make sure the TV's power cord is connected securely to the wall outlet.
- ➔ Press TV (FUNCTION) when operating your TV.
- ➔ Are fluorescent lights too close to the TV? Move them at least 3-4 feet away from the TV.

Cannot gain enough volume when using a cable box

- ➔ Increase the volume at the cable box. Then press TV (FUNCTION) and adjust the TV's volume.

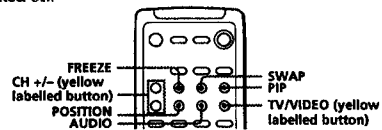
The TV needs to be cleaned

- ➔ Clean the TV with a soft dry cloth. Never use strong solvents such as thinner or benzene, which might damage the finish of the cabinet.

Watching two programs at a time — PIP

The Picture-in-Picture (PIP) feature allows you to watch both the main picture and a window picture simultaneously.

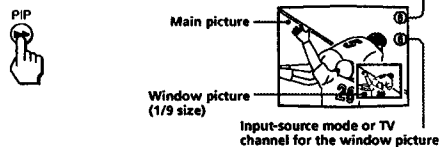
For KV-27S25/27V25/29RS25/29RS25C/29V65M/32S25/32TW25/32V25, your TV must be connected to a VCR to enjoy this feature. See "Connecting an antenna/cable TV system with a VCR" (page 6) for connections. In order to operate PIP, your VCR must be turned on.



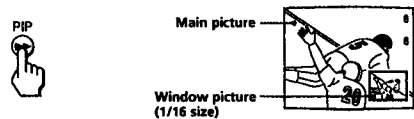
Use the yellow labelled buttons for PIP operations.

Displaying a window picture

Press PIP.



Press PIP again to display a smaller window picture.



To remove the window picture, press PIP again.

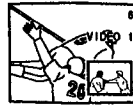
Note

- The window picture may be affected by the condition of the main picture.

Changing the window picture input mode

Press TV/VIDEO (yellow labelled button) to select the input mode.

Each time you press TV/VIDEO (yellow labelled button), "TV," "VIDEO 1," "VIDEO 2," and "VIDEO 3 (KV-27V25/27V35/29V35C/29V65M/29V75M/32V25/32V35/34V35C/35V35/35V45/35V75 only)" appear in sequence.



A window picture will appear in the same input mode as the last time you used PIP.

Note

- If you use one of the connections from page 6, your PIP input source is a VCR. If you use one of the connections from page 7, your PIP input source is a VCR or cable box.

Listening to the sound of the window picture

Press AUDIO.

The \downarrow display appears next to the PIP channel number for a few seconds, indicating that the window picture sound is being received.

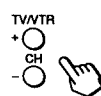


The sound of the window picture is received.

To restore the main picture sound, press AUDIO again. The \downarrow display moves to the main picture channel number.

Changing TV channels in the window picture

Press CH +/- (yellow labelled button).

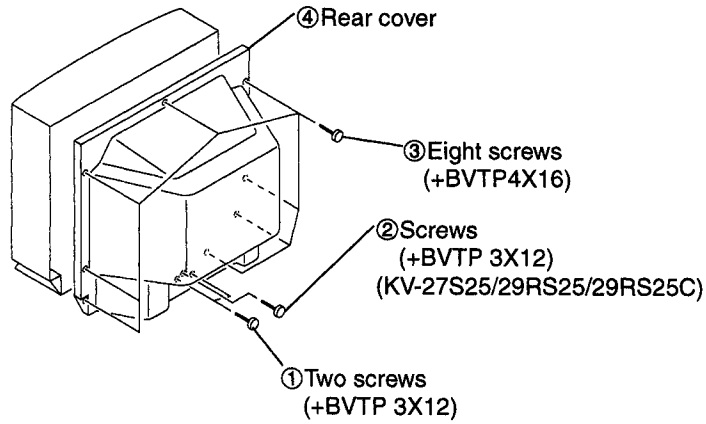


*Only page part no3-810-687-21(Operating Instruction Manual).

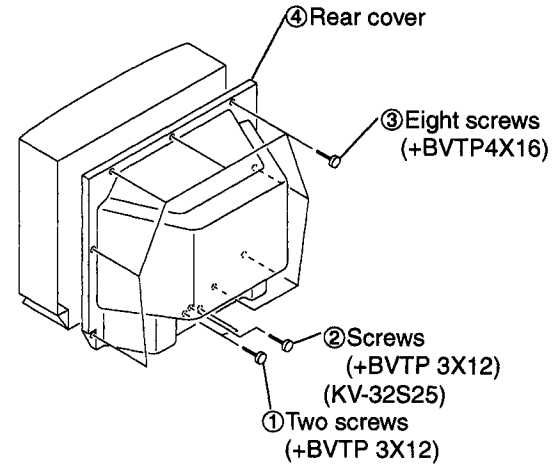
The operation instruction mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.(Part no: 3-810-687-21)

SECTION 2 DISASSEMBLY

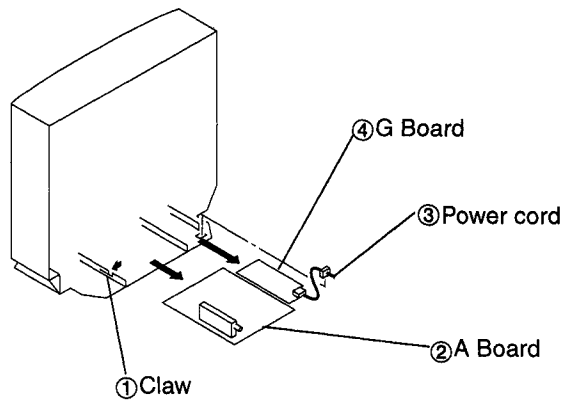
2-1-1. REAR COVER REMOVAL (KV-27S20/27S25/29PS1/29SD1/29RS20/29RS20C/29RS25/29RS25C)



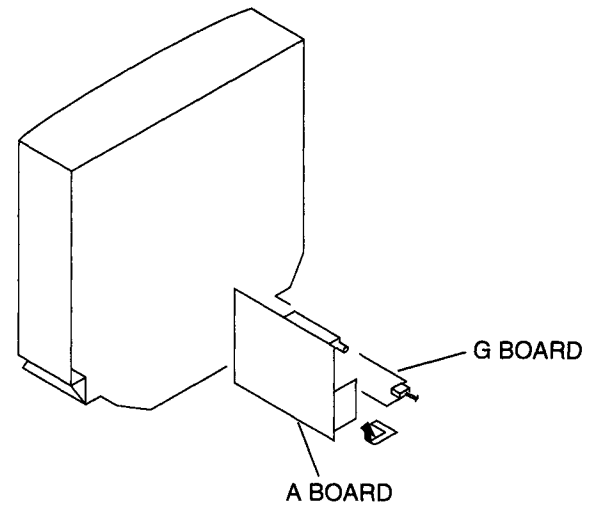
2-1-2. REAR COVER REMOVAL (KV-32S20/32S25/34RS20C)



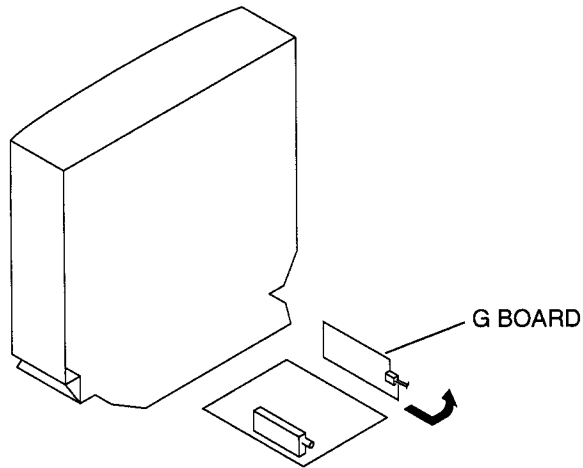
2-2. A AND G BOARDS REMOVAL



2-3-1. SERVICE POSITION (A BOARD)



2-3-2. SERVICE POSITION(G BOARD)

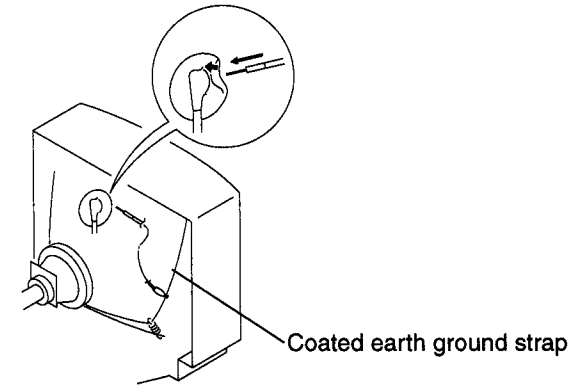


2-4-1. PICTURE TUBE REMOVAL

WARNING

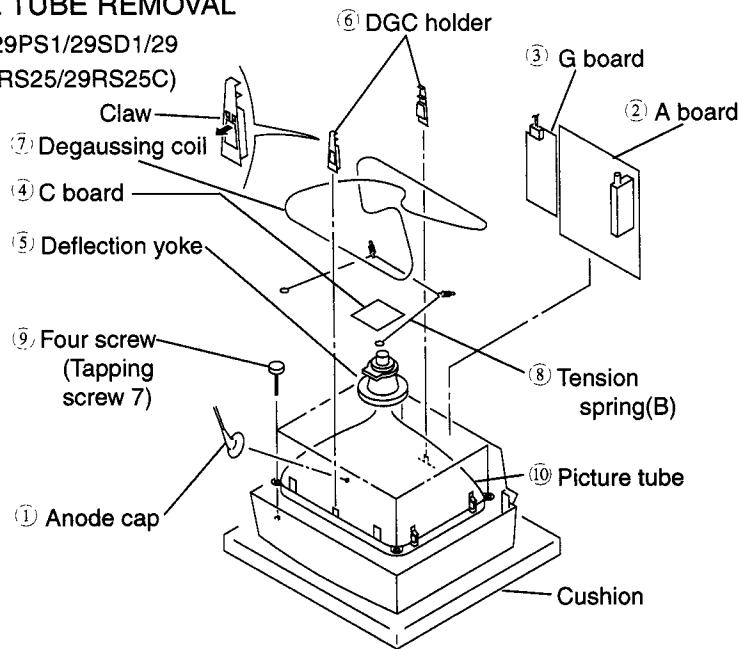
Before removing anode cap H.V remains in the CRT even after the the power is disconnected.

To avoid electrical shock, before attempting to remove the anode cap, discharge CRT : short between anode and CRT coated earth ground strap.



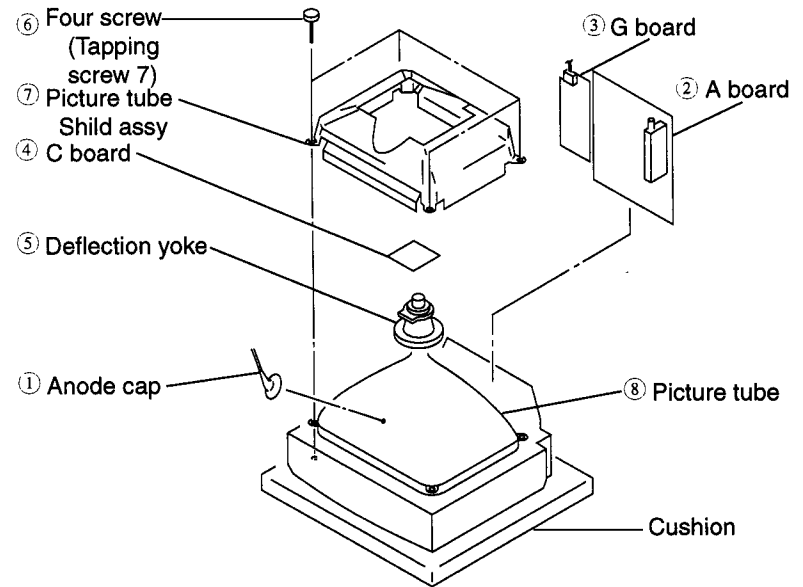
2-4-2. PICTURE TUBE REMOVAL

(KV-27S20/27S25/29PS1/29SD1/29RS20/29RS20C/29RS25/29RS25C)



2-4-3. PICTURE TUBE REMOVAL

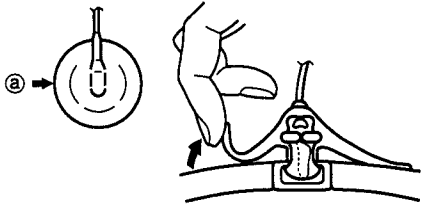
(KV-32S20/32S25/34RS20C)



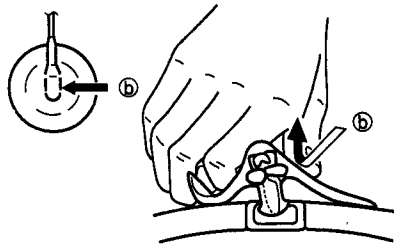
• REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis. CRT chield or carbon painted on the CRT, after removing the anode.

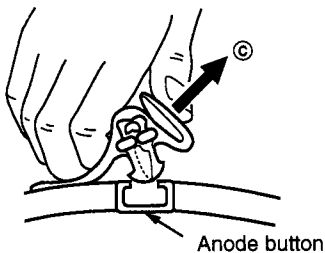
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ㉑.



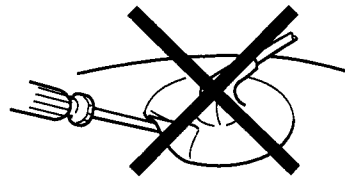
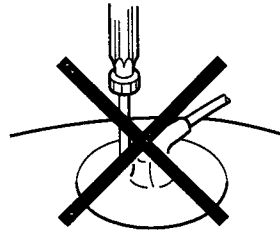
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ㉒.



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 ㉓.

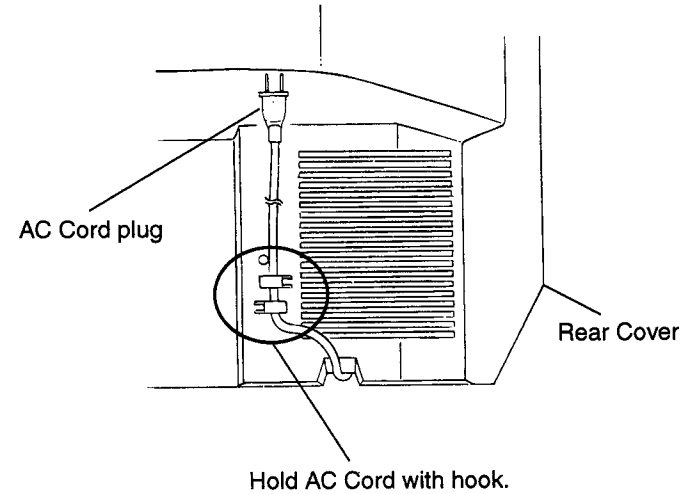
• HOW TO HANDLE AN ANODE-CAP

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



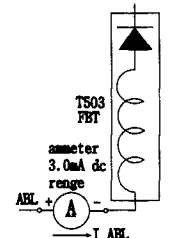
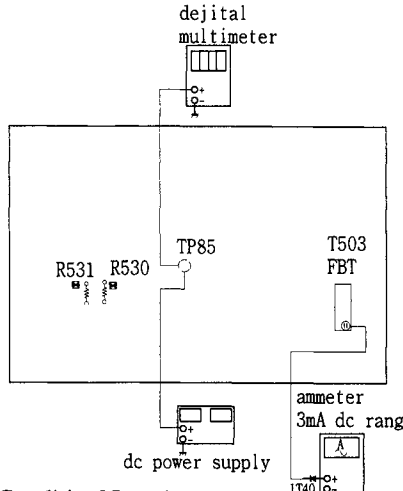


CAUTION

Be sure to attach AC Cord to Rear Cover with the hook in the following way for after service.
Then check if the AC cord is protected against being pressed under the set.



SECTION 3 SAFETY RELATED ADJUSTMENTS

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>☒ *RESISTOR CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS</p> </div> <p>The following adjustments should always be performed when replacing the following components (*marked with  on the schematic diagram). (Hold-down operation confirmation)</p> <p>Step 1</p> <p>1. Preparation before confirmation</p> <ol style="list-style-type: none"> 1) Turn the POWER switch ON, and receive *signal and set the *PICTURE and BRIGHTNESS controls to adjustment. 2) Confirm that the voltage of the check terminal of *TP is more than *voltage when the set is operating normally with *Power supply. <p>Step 2</p> <p>2. Confirm that a voltage of between TP85 and ground.</p> <p>Step 3</p> <p>4. Using an external DC power supply, apply voltage between TP 85 and ground. Increase gradually the voltage and confirm that the hold-down works (Raster disappears) at lower than the voltage obtained Step 2 mentioned above *voltage.</p> <p>Step 4</p> <p>5. Confirm that a voltage of more than *voltage appears TP85 and ground.</p>	<p>* White Picture</p> <p>*Digital multimeter</p> <p>* White Picture</p> <p>* White Picture</p>	<p>* marked parts IC643, IC351, IC501 D519, D520, D521, C531, C532, R387, R529, R530, R531 R532, R533, R550, R661 T503</p> <p>*TP85 (H. PROT)</p>	<p>*☒ R530, 531</p> <p>*PICTURE BRIGHTNESS } maximum }</p> <div style="text-align: center; margin-top: 20px;">  </div> <p>*PICTURE BRIGHTNESS } maximum }</p>	<p>A BOARD - CONDUCTOR SIDE -</p> <div style="text-align: center;">  </div> <p>[Check Condition]Step 1</p> <ul style="list-style-type: none"> *more than 21.0V DC.....27/29 inch only *more than 23.0V DC.....32 inch only *120 ± 2.0 VAC (Power Supply) <p>[Check Condition]Step 2</p> <ul style="list-style-type: none"> *1760 ±100 μA.....27/29 inch only *2000 ±100 μA.....32 inch only *120 ± 2.0 VAC (Power Supply) <p>[Check Condition]Step 3</p> <ul style="list-style-type: none"> *lower than 26.05 V DC.....27/29 inch only *lower than 26.95 V DC.....32 inch only *120 ± 2.0 VAC (Power Supply) <p>[Check Condition]Step 4</p> <ul style="list-style-type: none"> *more than 21.0V DC.....27/29 inch only *more than 23.0V DC.....32 inch only *120 ± 2.0 VAC (Power Supply)

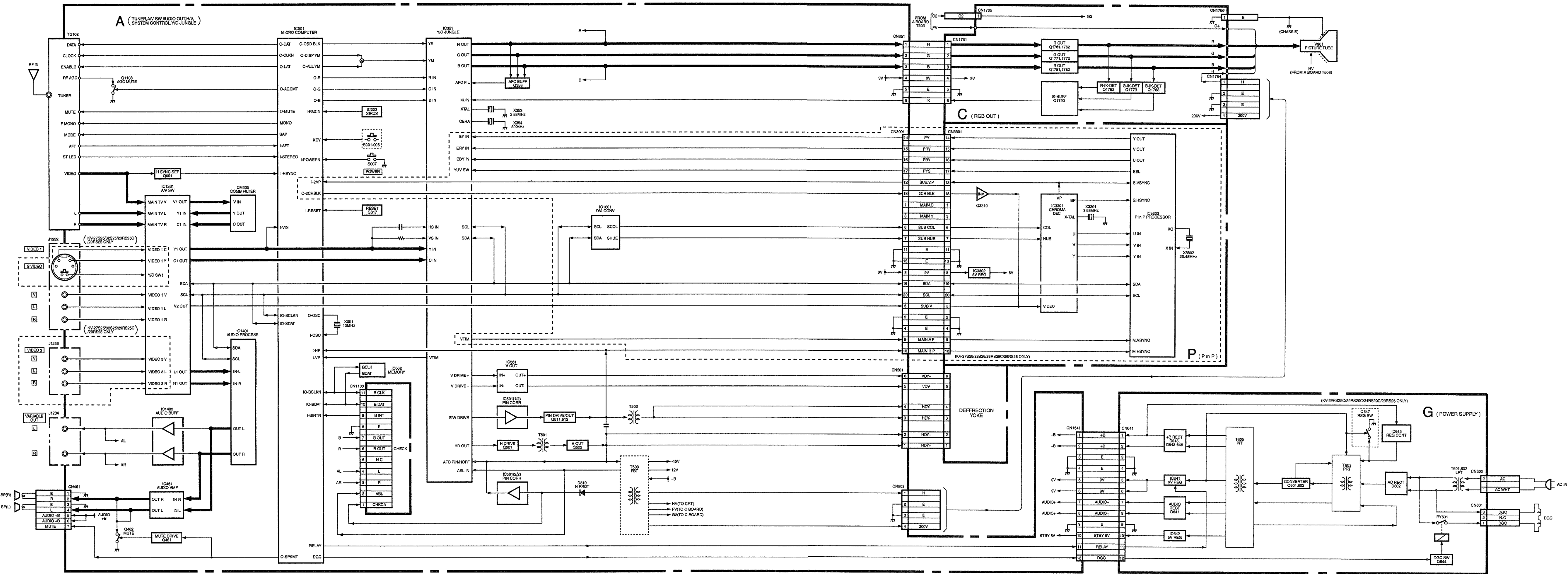
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<p>B+ VOLTAGE CONFIRMATION</p> <p>The following adjustments should always be performed when replacing the following *components.</p> <ol style="list-style-type: none"> 1) Supply *Voltage AC to with *variable auto-transformer. 2) Input an entirely *signal. 3) Set the PICTURE control and the BRIGHTNESS control to adjustment. 4) Confirm the voltage of *TP is less than *Voltage DC. 5) If step 4) is not satisfied, replace the *components repeat above steps. 	<p>*Variable auto-transformer *Monoscope</p>	<p>*IC634, R661</p> <p>*G Board CN641 Pin 1 - ground</p>	<p>*PICTURE, BRIGHTNESS initial reset</p> <p>*IC634, R661</p>	<p>*130 $\pm_{0}^{2.0}$ V AC</p> <p>*Less than 136.5 VDC</p>

MEMO

A series of horizontal dotted lines for writing.

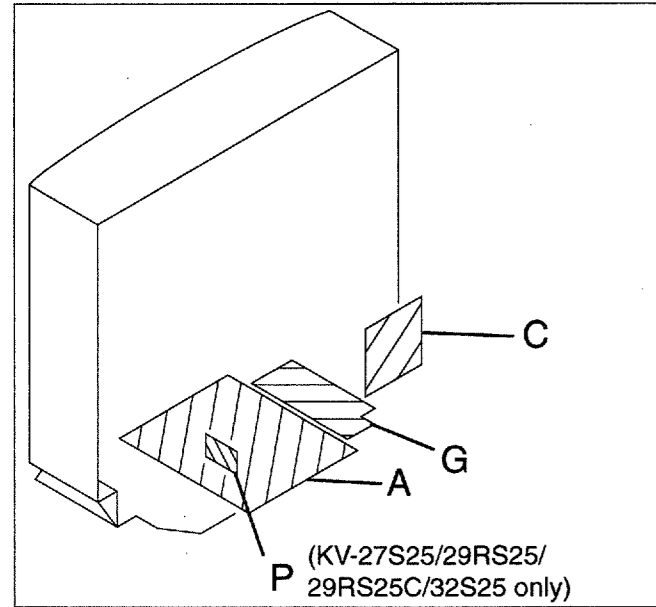
SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAM



SECTION 4 DIAGRAMS

4-2. CIRCUIT BOARDS LOCATION



4-3. PRINTED WRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms. $\text{k}\Omega=1000\Omega$, $\text{M}\Omega=1000\text{k}\Omega$
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

Pitch : 5mm

Rating electrical power : $1/4\text{W}$

- $1/4\text{W}$ in resistance, $1/10\text{W}$ and $1/8\text{W}$ in chip resistance.

- : nonflammable resistor.

- : fusible resistor.

- Δ : internal component.

- : panel designation and adjustment for repair.

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

- : earth-ground.

- : earth-chassis.

- : earth-chassis.

- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally used.

- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R530 and R531 adjustment on Page 24-25.)

- When replacing the part in below table, be sure to perform the related adjustment.

- As to the voltage value shown by the semiconductors on the Schematic

Diagram, see the another list.

- Readings are taken with a color-bar signal input.
- Readings are taken with a $10\text{M}\Omega$ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.

S : Measurement impossibility.

- : B-line.

- : B-line.

(Actual measured value may be different).

- : signal path. (RF)

- Circled numbers are waveform references.

Reference information

RESISTOR : RN METAL FILM

: RC SOLID

: FPRD NONFLAMMABLE CARBON

: FUSE NONFLAMMABLE FUSIBLE

: RW NONFLAMMABLE WIREWOUND

: RS NONFLAMMABLE METAL OXIDE

: RB NONFLAMMABLE CEMENT

: * ADJUSTMENT RESISTOR

COIL : LF-8L MICRO INDUCTOR

CAPACITOR : TA TANTALUM

: PS STYROL

: PP POLYPROPYLENE

: PT MYLAR

: MPS METALIZED POLYESTER

: MPP METALIZED POLYPROPYLENE

: ALB BIPOLAR

: ALT HIGH TEMPERATURE

: ALR HIGH RIPPLE

Note: The symbol display is on the component side.

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

The symbol indicate fast operating fuse. Replace only with fuse of same rating as maked.

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

Le symbole indique une fusible a action rapide. Doit être remplacée par une fusible de meme valeur, comme maque.

Part replaced()	Adjustment()
IC351, IC501, D519, D520, D521, C531, C532, R387, R533, R550, T503, A BOARD IC643, R661 G BOARD	R530, R531

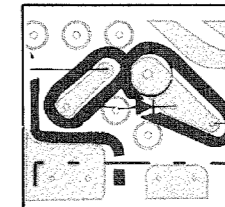
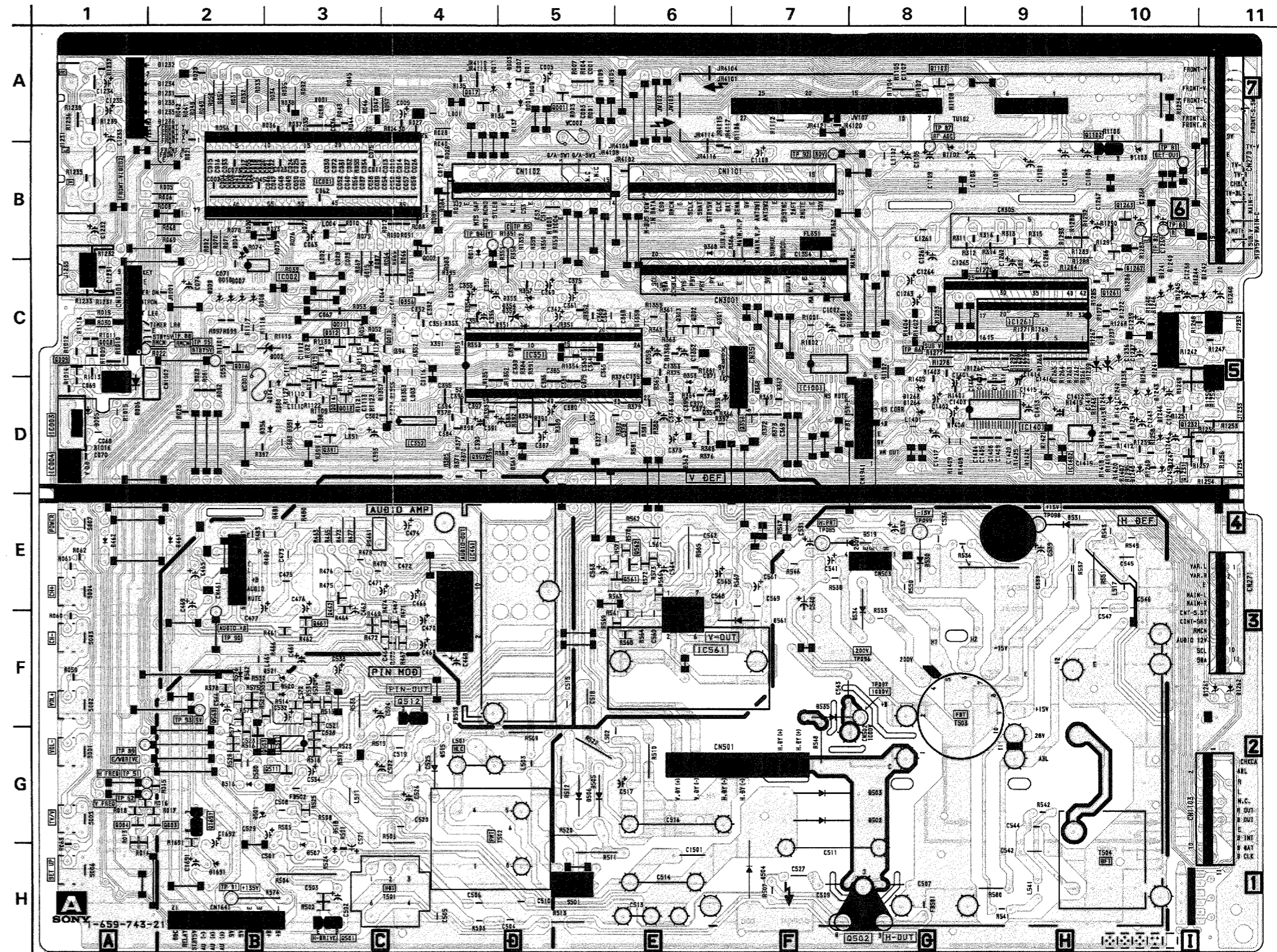
A BOARD

IC	DIODE
IC001	B-3
IC002	C-3
IC003	E-1
IC351	D-6
IC461	G-5
IC501	H-3
IC1261	D-11
IC1001	D-9
IC1401	E-11
IC1402	E-12
TRANSISTOR	
Q001	A-6
Q002	C-5
Q003	I-2
Q004	I-2
Q010	D-4
Q011	D-4
Q012	D-4
Q013	D-4
Q014	D-4
Q015	D-4
Q016	D-3
Q017	A-5
Q301	D-8
Q302	D-8
Q303	D-7
Q354	E-8
Q356	C-5
Q358	E-8
Q461	G-3
Q462	G-4
Q501	J-4
Q502	J-9
Q503	H-3
Q511	H-3
Q512	H-5
Q561	F-7
Q562	F-7
Q563	H-3
Q1102	B-12
Q1103	A-10
Q1231	E-13
Q1232	E-13
Q1261	C-12
Q1262	C-12
Q1263	C-12
D001	A-6
D002	D-3
D003	A-6
D004	C-3
D005	E-1
D006	D-2
D011	A-5
D013	C-5
D014	D-3
D015	C-4
D353	D-8
D356	E-3
D360	E-7
D362	E-8
D368	C-8
D462	F-1
D501	I-3
D502	I-9
D503	I-9
D504	J-8
D505	I-7
D506	I-6
D507	I-3
D515	H-5
D516	I-3
D518	I-4
D519	F-9
D520	I-3
D521	G-3
D530	F-10
D531	F-12
D534	G-9
D561	G-8
D562	G-3
D1102	B-10
D1103	B-12
D1237	D-12
D1241	C-13
D1242	C-13
D1244	D-12
D1245	D-12
D1246	E-13
D1247	E-13
D1248	E-12
D1261	H-13
D1262	H-13
D1263	D-10
D1264	E-10

A

TUNER, AV SWITCH,
TUNING-MI. CON, Y/C/J,
AUDIO PROCESS, H OUT, A OUT

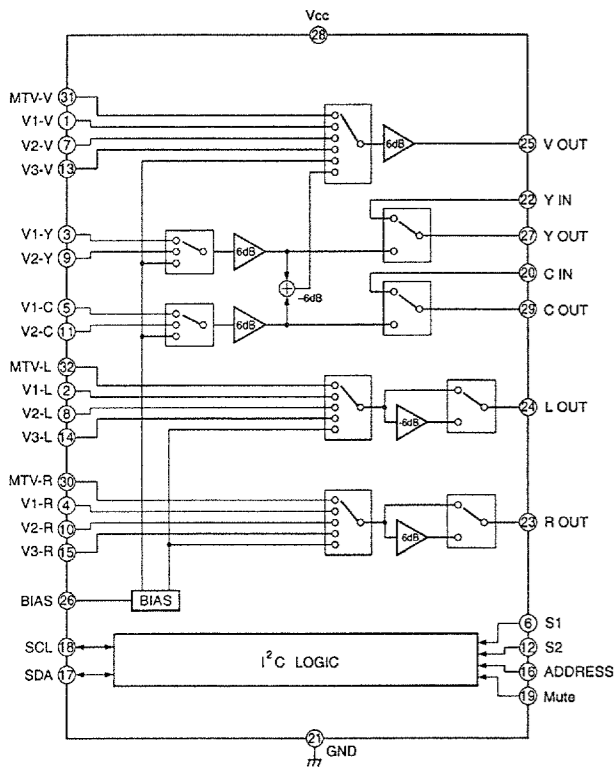
- A BOARD -



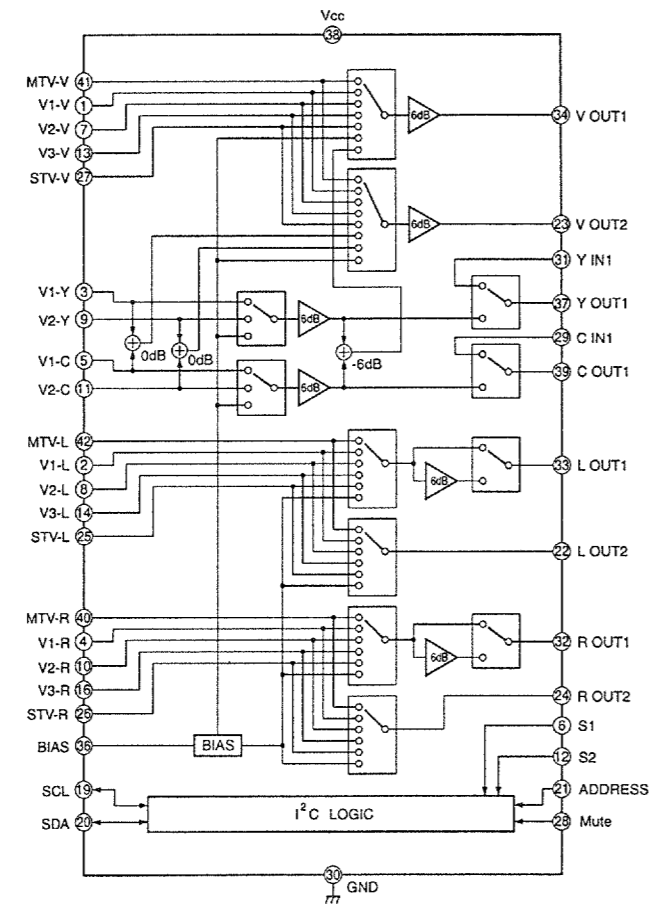
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

4-4. IC BLOCK DIAGRAMS

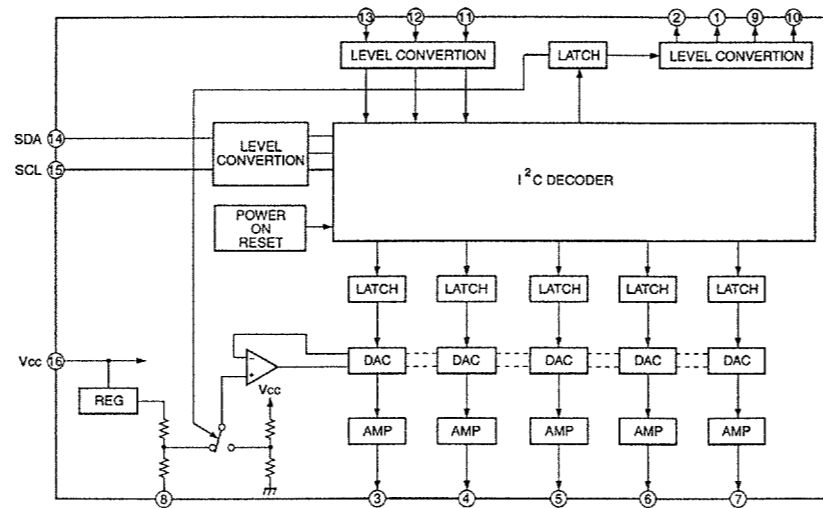
A BOARD IC1261 MM1311AD
(KV-27S20/29RS20C/29SD1/29RS20/
29PS1/32S20/34RS20C)



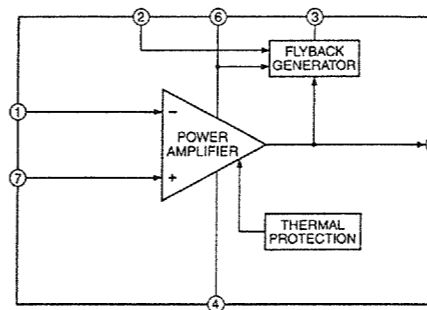
A BOARD IC1261 MM1313
(KV-27S25/29RS25C/29RS25/32S25)



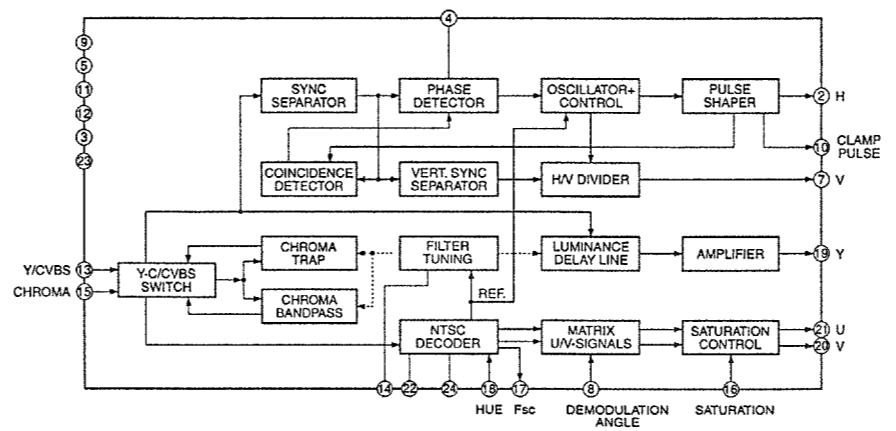
A BOARD IC1001 CXA1315M



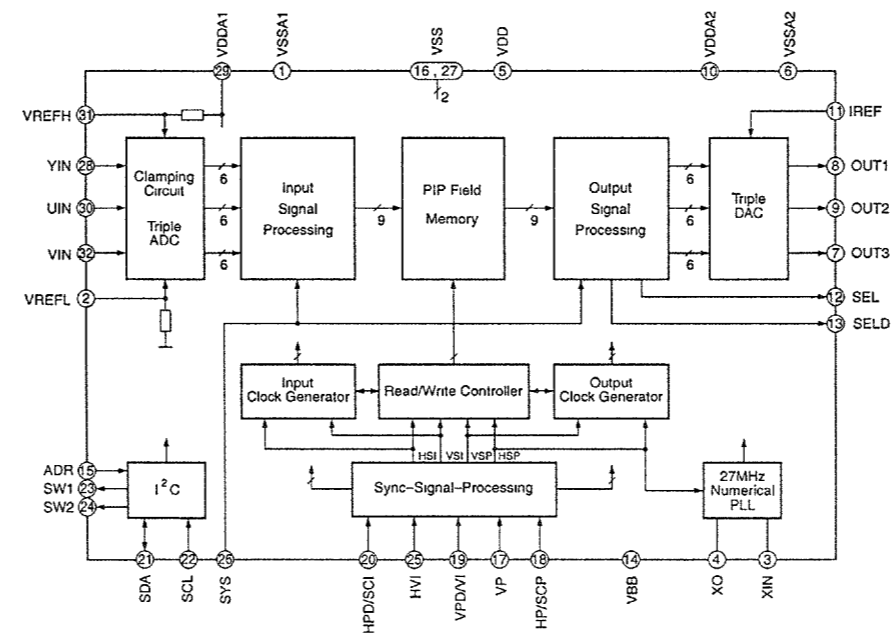
A BOARD IC561 TDA8172



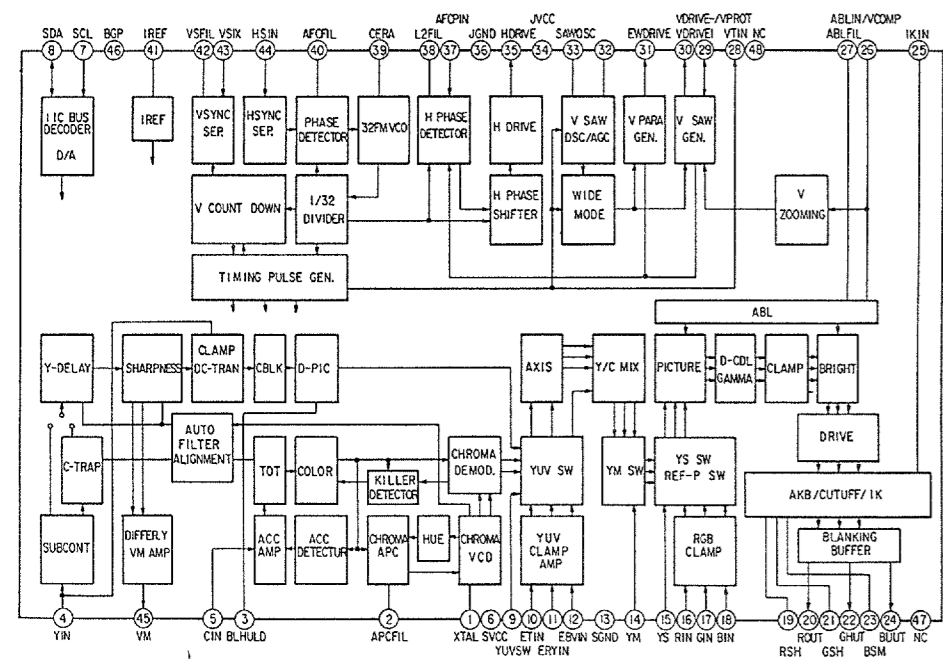
P BOARD IC3301 TDA8315T/N3



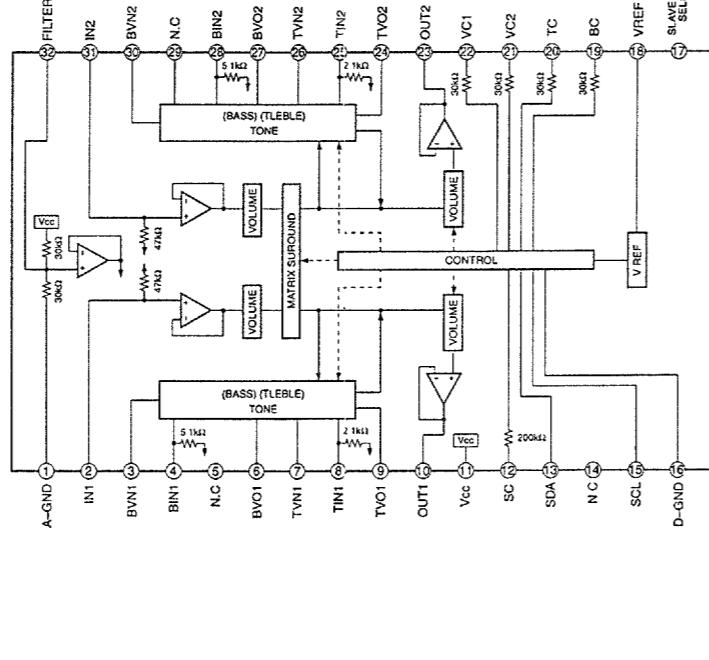
P BOARD IC3303 SDA9288X



A BOARD IC351 CXA2025S

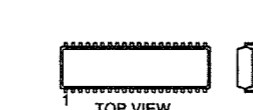


A BOARD IC1401 BH3856FS

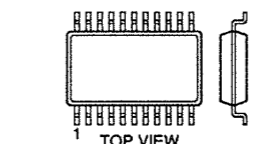


4-5. SEMICONDUCTORS

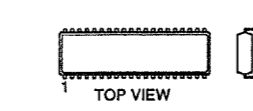
BH3856FS



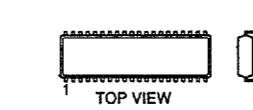
32pin DIP
CXA1315M



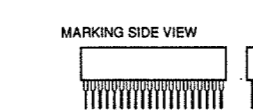
16pin SOP
CXA2025S



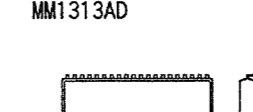
48pin DIP
CXP85640-004S



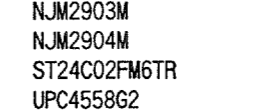
64pin DIP
DM-58



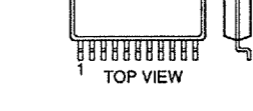
4pin SIP
MM1311AD
MM1313AD



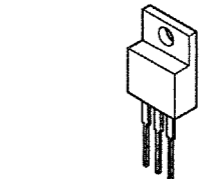
42pin DIP
NJM2903M
NJM2904M
ST24C02FM6TR
UPC4558G2
XL24C02Y-BE2-111



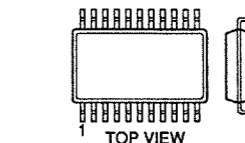
8pin SOP



NJM78M05FA
TA7805S



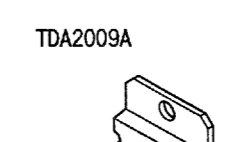
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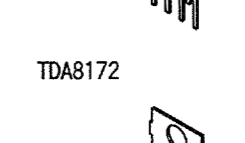
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SI3090CA



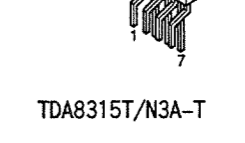
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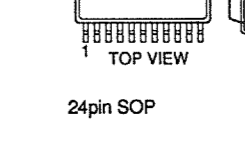
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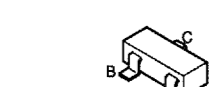
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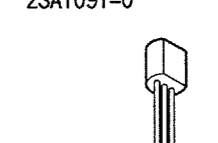
24pin SOP



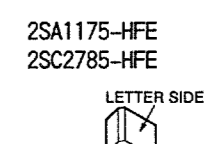
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2SA1162-G
2SA1330-06
2SC1623-L5L6
2SD601A-Q



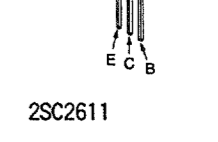
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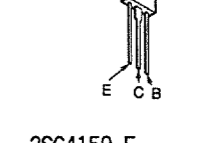
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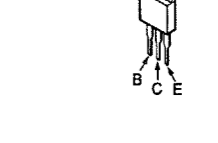
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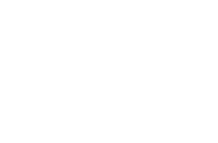
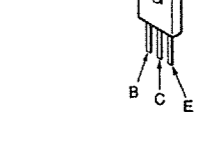
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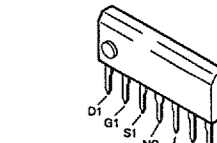
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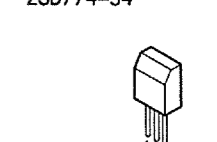
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EGP20G
EL1Z
GP08D
MTZJ-T-77-3.9
MTZJ-T-77-4.3C



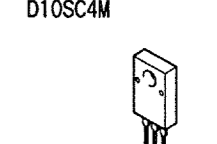
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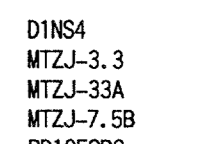
2SD774-34



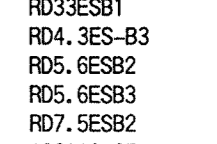
D10SC4M



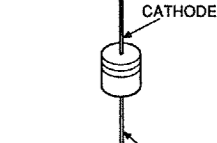
D1NS4
MTZJ-3.3
MTZJ-33A
MTZJ-7.5B
RD10ESB2
RD3.1ES-B2
RD3.9ES-B2
RD33ESB1
RD4.3ES-B3
RD5.6ESB2
RD5.6ESB3
1SS119-25
1SS133T-77



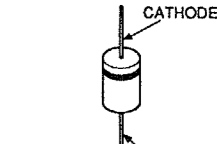
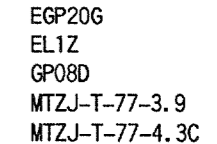
D4SB60L
RBA-1004B



ERC06-15S



ERD29-08J



**SECTION 5
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.

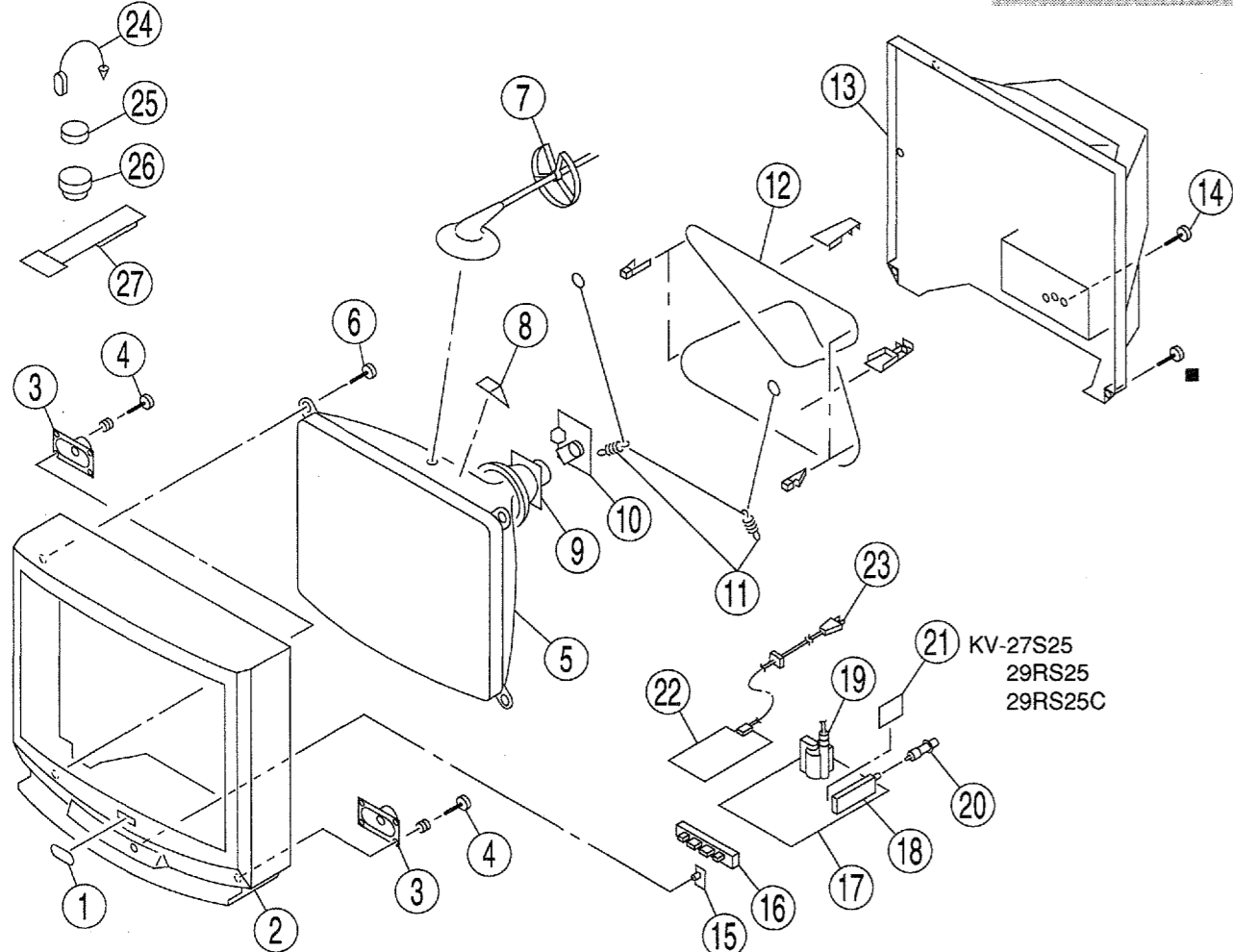
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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

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

5-1. PICTURE TUBE

■ : BVTP 3X12 7-685-648-79

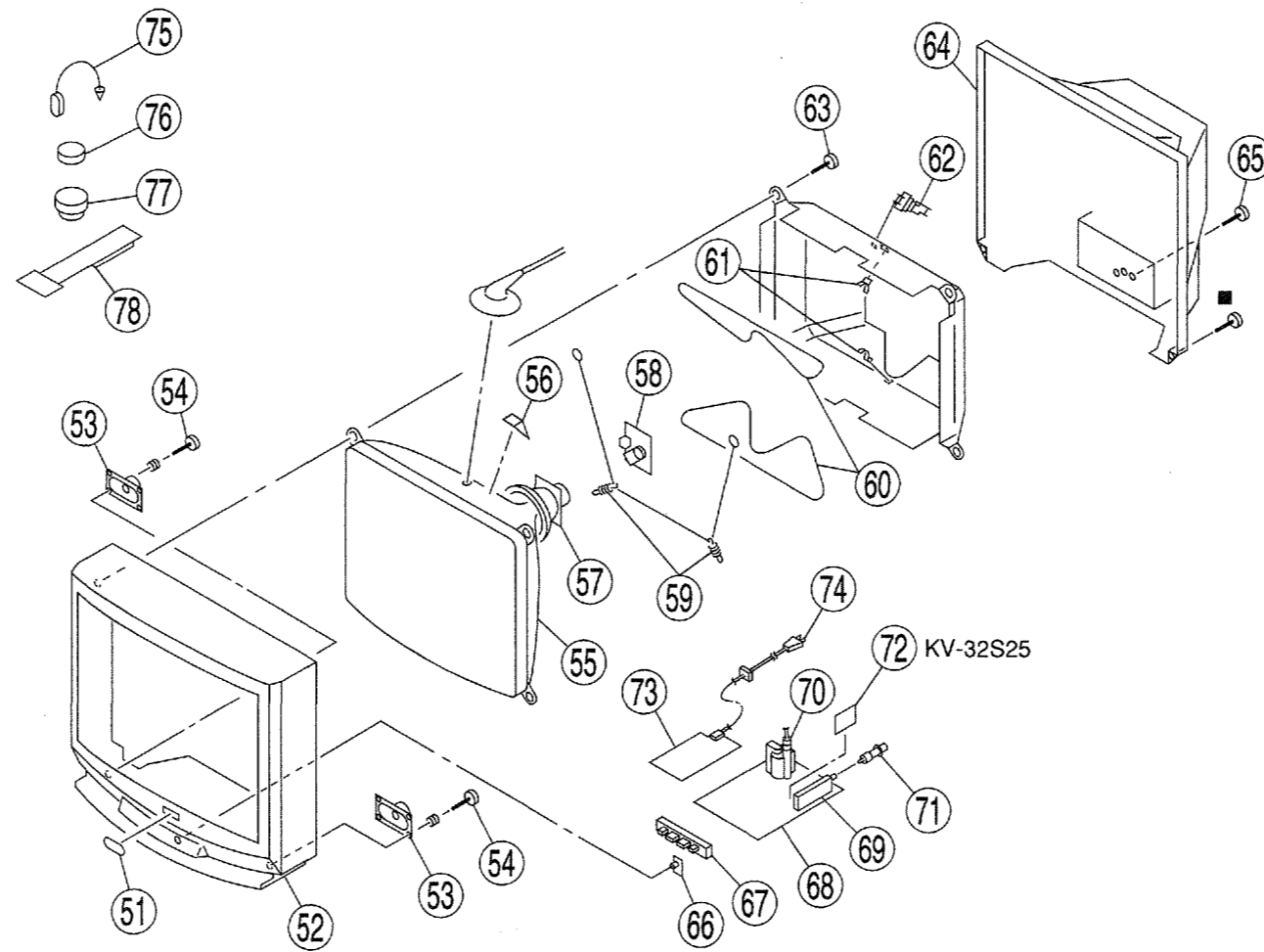


REF. NO.	PART NO.	DESCRIPTION	REMARK
1	4-046-160-01	EMBLEM (NO.9), SONY	
2	4-052-463-01	BEZNET (KV-27S25/29RS25/29RS25C)	
	4-052-463-21	BEZNET (KV-27S20/29RS20/29RS20C)	
	4-052-463-41	BEZNET (KV-29PS1/29SD1)	
3	1-504-531-11	SPEAKER (13.1X6.2CM)	
4	4-388-477-02	SCREW(3X16), TAPPING,+BV WASHER	
5	8-733-849-05	PICTURE TUBE 29PXD (A68KZ150X) (KV-29RS20C/29RS25C)	
	8-733-848-05	PICTURE TUBE 29PXD (A68KZ150X) (KV-27S20/27S25/29PS1/29RS20/29RS25/29SD1)	
6	4-041-268-01	SCREW (7), TAPPING	
7	3-704-372-31	HOLDER, HV CABLE	
8	4-053-005-01	SPACER, DY	
9	1-451-275-42	DEFLECTION YOKE Y28PFAIVTM) (KV-27S20/27S25/29PS1/29RS20/29RS20C/29RS25C/29SD1)	
10	* A-1331-516-A	C BOARD, COMPLETE	
11	4-036-329-01	SPRING (B), TENSION	
12	1-406-726-13	COIL, DEGAUSSING	

REF. NO.	PART NO.	DESCRIPTION	REMARK
16	4-052-460-01	BUTTON, MULTI	
17	* A-1297-707-A	A BOARD, COMPLETE (KV-27S25/29RS25/29RS25C)	
	* A-1297-708-A	A BOARD, COMPLETE (KV-27S20/29PS1/29RS20/29RS20C/29SD1)	
18	8-598-341-00	TUNER BTF-WA405	
19	1-453-207-11	TRANSFORMER ASSY, FLYBACK (KV-29RS20C/29RS25C) NX-2609/X4C	
20	1-766-374-11	PLUG, F-PIN	
21	* A-1195-103-A	P BOARD, COMPLETE (KV-27S25/29RS25/29RS25C)	
22	* A-1316-249-A	G BOARD, COMPLETE (KV-27S20/27S25/29PS1/29RS20/29RS25/29SD1)	
	* A-1316-252-A	G BOARD, COMPLETE (KV-29RS20C/29RS25C)	
23	1-751-059-11	CORD, POWER (WITH CONNECTOR) 10A/125V(KV-27S20/27S25/29PS1/29RS20/29RS25/29SD1)	
24	4-308-870-00	CLIP, LEAD WIRE	
25	1-452-032-00	MAGNET, DISC ; 10mm ϕ	
26	1-452-094-00	MAGNET, ROTATABLE DISK ; 15mm ϕ	
27	X-4306-312-9	PERMALLOY ASSY, CONVERGENCE	

5-2. PICTURE TUBE

■ : +BVTP 3X12 7-685-648-79



REF. NO.	PART NO.	DESCRIPTION	REMARK
51	4-046-160-01	EMBLEM, X-RAY	
52	4-052-599-01	BEZNET (KV-32S25)	
	4-052-599-21	BEZNET (KV-32S20/34RS20C)	
53	1-504-531-11	SPEAKER (13.1X6.2CM)	
54	4-388-477-01	SCREW(3X16), TAPPING,+BV WASHER	
55	8-733-743-05	PICTURE TUBE 34FXD2 (SDP) (M80JYV51X) (KV-32S20/32S25)	
	8-733-742-05	PICTURE TUBE 34FXD2 (SDP) (M80JYV51X) (KV-34RS20C)	
56	4-053-005-01	SPACER, DY	
57	1-451-482-11	DEFLECTION YOKE Y34FXA2 (KV-32S20/32S25/34RS20C)	
58	* A-1331-516-A	C BOARD, COMPLETE	
59	4-036-329-01	SPRING (B), TENSION	
60	* 1-402-952-12	COIL, DEMAGNETIZATION (KV-32S20/32S25)	
	1-411-474-11	COIL, DEMAGNETIZATION (KV-34RS20C)	
61	4-371-629-01	STOPPER, WIRE	
62	4-033-681-01	HOLDER, LEAD	
63	4-041-268-01	SCREW (7), TAPPING	
64	4-052-600-01	COVER, DY	
	4-052-600-21	COVER, REAR (KV-32S20/32RS20C)	

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

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

A

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

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

**SECTION 6
ELECTRICAL PARTS LIST**

- The components identified by \square 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.
- 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.

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

- CAPACITORS
PF : μ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

RESISTORS
• All resistors are in ohms
• F : nonflammable

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	* A-1297-707-A	A BOARD, COMPLETE ***** (KV-27S25(U)/29RS25(E)/29RS25C(E))		C378	1-136-244-11	FILM	0.1MF 5% 50V
	* 4-051-927-01	CASE, SHIELD		C379	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
	4-382-854-11	SCREW (M3X10), P, SW (+)		C380	1-126-935-11	ELECT	470MF 20% 16V
				C383	1-137-399-11	FILM	0.1MF 5% 50V
				C385	1-164-182-11	CERAMIC CHIP	0.0033MF 10% 50V
				C386	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
				C387	1-124-925-11	ELECT	2.2MF 20% 50V
				C388	1-124-902-00	ELECT	0.47MF 20% 50V
				C390	1-124-903-11	ELECT	1MF 20% 50V
				C391	1-163-017-00	CERAMIC CHIP	0.0047MF 10% 50V
				C392	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
				C462	1-124-925-11	ELECT	2.2MF 20% 50V
				C463	1-124-925-11	ELECT	2.2MF 20% 50V
				C466	1-104-666-11	ELECT	220MF 20% 25V
				C468	1-104-664-11	ELECT	47MF 20% 25V
				C470	1-124-925-11	ELECT	2.2MF 20% 50V
				C471	1-104-666-11	ELECT	220MF 20% 25V
				C472	1-136-173-00	FILM	0.47MF 5% 50V
				C473	1-136-169-00	FILM	0.22MF 5% 50V
				C474	1-126-942-61	ELECT	1000MF 20% 25V
				C475	1-136-169-00	FILM	0.22MF 5% 50V
				C476	1-126-942-61	ELECT	1000MF 20% 25V
				C477	1-126-942-61	ELECT	1000MF 20% 25V
				C501	1-102-110-00	CERAMIC	220PF 10% 50V
				C502	1-124-902-00	ELECT	0.47MF 20% 50V
				C503	1-163-003-11	CERAMIC CHIP	330PF 10% 50V
				C504	1-102-212-00	CERAMIC	820PF 10% 500V
				C505	1-102-002-00	CERAMIC	680PF 10% 500V
				C506	1-106-383-00	MYLAR	0.047MF 10% 200V
				C507	1-162-116-51	CERAMIC	680PF 10% 2KV
				C508	1-102-244-00	CERAMIC	220PF 10% 500V
				C509	1-162-116-00	CERAMIC	680PF 10% 2KV
				C510	1-106-367-00	MYLAR	0.01MF 10% 100V
				C511	1-115-460-11	FILM	0.022MF 3% 1.2KV
				C515	1-130-895-51	FILM	0.056MF 5% 400V
				C514	1-104-844-11	FILM	0.62MF 5% 200V
				C515	1-106-343-00	MYLAR	0.001MF 10% 100V
				C516	1-115-461-11	FILM	2MF 5% 200V
				C517	1-107-649-11	ELECT	2.2MF 20% 250V
				C518	1-106-395-00	MYLAR	0.15MF 10% 200V
				C519	1-162-815-11	CERAMIC	47PF 5% 500V
				C520	1-164-646-11	CERAMIC	2200PF 10% 500V
				C521	1-164-161-11	CERAMIC CHIP	0.0022MF 10% 50V
				C522	1-124-903-11	ELECT	1MF 20% 50V
				C525	1-102-244-00	CERAMIC	220PF 10% 500V
				C526	1-107-662-11	ELECT	22MF 20% 250V
				C372	1-124-902-00	ELECT	0.47MF 20% 50V
				C373	1-124-903-11	ELECT	1MF 20% 50V
				C376	1-126-964-11	ELECT	10MF 20% 50V
				C377	1-137-399-11	FILM	0.1MF 5% 50V
				C372	1-124-902-00	ELECT	0.47MF 20% 50V
				C373	1-124-903-11	ELECT	1MF 20% 50V
				C376	1-126-964-11	ELECT	10MF 20% 50V
				C377	1-137-399-11	FILM	0.1MF 5% 50V



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

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

REF. NO.	PART NO.	DESCRIPTION	REMARK
C537	1-126-941-11	ELECT 470MF 20%	25V
C539	1-126-935-11	ELECT 470MF 20%	16V
C540	1-123-024-21	ELECT 33MF	160V
C541	1-128-560-11	ELECT 22MF 20%	100V
C545	1-106-387-00	MYLAR 0.068MF 10%	200V
C561	1-126-967-11	ELECT 47MF 20%	50V
C563	1-126-923-11	ELECT 220MF 20%	10V
C564	1-124-903-11	ELECT 1MF 20%	50V
C565	1-126-969-11	ELECT 220MF 20%	50V
C566	1-126-964-11	ELECT 10MF 20%	50V
C568	1-137-399-11	FILM 0.1MF 5%	50V
C571	1-104-664-11	ELECT 47MF 20%	25V
C1002	1-126-964-11	ELECT 10MF 20%	50V
C1101	1-126-768-11	ELECT 2200MF 20%	16V
C1103	1-126-965-11	ELECT 22MF 20%	50V
C1104	1-126-967-11	ELECT 47MF 20%	16V
C1105	1-126-967-11	ELECT 47MF 20%	16V
C1106	1-126-964-11	ELECT 10MF 20%	50V
C1107	1-163-037-11	CERAMIC CHIP 0.022MF 10%	50V
C1108	1-124-903-11	ELECT 1MF 20%	50V
C1109	1-126-964-11	ELECT 10MF 20%	50V
C1110	1-163-227-11	CERAMIC CHIP 10PF 0.5PF	50V
C1111	1-163-227-11	CERAMIC CHIP 10PF 0.5PF	50V
C1112	1-163-227-11	CERAMIC CHIP 10PF 0.5PF	50V
C1236	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1237	1-136-165-00	FILM 0.1MF 5%	50V
C1238	1-136-165-00	FILM 0.1MF 5%	50V
C1239	1-124-903-11	ELECT 1MF 20%	50V
C1240	1-124-903-11	ELECT 1MF 20%	50V
C1241	1-136-165-00	FILM 0.1MF 5%	50V
C1242	1-124-903-11	ELECT 1MF 20%	50V
C1243	1-124-903-11	ELECT 1MF 20%	50V
C1244	1-124-902-00	ELECT 0.47MF 20%	50V
C1245	1-124-902-00	ELECT 0.47MF 20%	50V
C1261	1-126-967-11	ELECT 47MF 20%	16V
C1262	1-126-967-11	ELECT 47MF 20%	16V
C1263	1-124-903-11	ELECT 1MF 20%	50V
C1264	1-124-903-11	ELECT 1MF 20%	50V
C1265	1-136-165-00	FILM 0.1MF 5%	50V
C1266	1-107-701-11	ELECT 47MF 20%	16V
C1267	1-136-165-00	FILM 0.1MF 5%	50V
C1268	1-124-903-11	ELECT 1MF 20%	50V
C1269	1-124-903-11	ELECT 1MF 20%	50V
C1270	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1351	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C1352	1-126-933-11	ELECT 100MF 20%	16V
C1353	1-163-037-11	CERAMIC CHIP 0.022MF 10%	50V
C1354	1-216-295-91	CONDUCTOR, CHIP	
C1401	1-124-902-00	ELECT 0.47MF 20%	50V
C1402	1-126-964-11	ELECT 10MF 20%	50V
C1403	1-124-902-00	ELECT 0.47MF 20%	50V
C1404	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C1405	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C1406	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C1407	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C1408	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
C1409	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
C1410	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
C1411	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
C1412	1-124-925-11	ELECT 2.2MF 20%	50V
C1413	1-124-925-11	ELECT 2.2MF 20%	50V
C1414	1-164-489-11	CERAMIC CHIP 0.22MF 10%	16V
C1415	1-126-965-11	ELECT 22MF 20%	50V
C1416	1-126-933-11	ELECT 100MF 20%	16V
C1417	1-126-965-11	ELECT 22MF 20%	50V
C1420	1-164-005-11	CERAMIC CHIP 0.47MF	25V

<FILTER BLOCK>

REF. NO.	PART NO.	DESCRIPTION	REMARK
CM305	1-473-548-11	FILTER BLOCK, COMB	
<CONNECTOR>			
CN351	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN461	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN501	* 1-580-798-11	CONNECTOR PIN (DY) 6P	
CN503	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1103	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P	
CN1641	* 1-564-515-11	PLUG, CONNECTOR 12P	
CN3001	1-573-298-11	CONNECTOR, BOARD TO BOARD 20P	
<DIODE>			
D001	8-719-991-33	DIODE 1SS133T-77	
D002	8-719-109-89	DIODE RD5.6ESB2	
D003	8-719-991-33	DIODE 1SS133T-77	
D004	8-719-110-17	DIODE RD10ESB2	
D005	8-719-991-33	DIODE 1SS133T-77	
D006	1-810-039-31	LED UNIT	
D011	8-719-983-20	DIODE MTZJ-T-77-4.3C	
D013	8-719-991-33	DIODE 1SS133T-77	
D014	8-719-991-33	DIODE 1SS133T-77	
D015	8-719-991-33	DIODE 1SS133T-77	
D353	8-719-991-33	DIODE 1SS133T-77	
D356	8-719-991-33	DIODE 1SS133T-77	
D360	8-719-110-17	DIODE RD10ESB2	
D362	8-719-991-33	DIODE 1SS133T-77	
D368	8-719-991-33	DIODE 1SS133T-77	
D462	8-719-991-33	DIODE 1SS133T-77	
D501	8-719-109-89	DIODE RD5.6ESB2	
D502	8-719-945-80	DIODE ERC06-15S	
D503	8-719-945-80	DIODE ERC06-15S	
D504	8-719-900-26	DIODE ERD29-08J	
D505	8-719-908-03	DIODE GP08D	
D506	8-719-908-03	DIODE GP08D	
D507	8-719-991-33	DIODE 1SS133T-77	
D515	8-719-302-43	DIODE EL1Z	
D516	8-719-991-33	DIODE 1SS133T-77	
D518	8-719-991-33	DIODE 1SS133T-77	
Δ D519	8-719-302-43	DIODE EL1Z	
D520	8-719-991-33	DIODE 1SS133T-77	
D521	8-719-921-63	DIODE MTZJ-7.5B	
D530	8-719-979-85	DIODE EGP20G	
D531	8-719-979-85	DIODE EGP20G	
D534	8-719-302-43	DIODE EL1Z	
D561	8-719-908-03	DIODE GP08D	
D562	8-719-991-33	DIODE 1SS133T-77	
D1102	8-719-982-24	DIODE MTZJ-33A	
D1103	8-719-109-89	DIODE RD5.6ESB2	
D1237	8-719-110-17	DIODE RD10ESB2	
D1241	8-719-110-17	DIODE RD10ESB2	
D1242	8-719-110-17	DIODE RD10ESB2	
D1244	8-719-110-17	DIODE RD10ESB2	
D1245	8-719-110-17	DIODE RD10ESB2	
D1246	8-719-110-17	DIODE RD10ESB2	
D1247	8-719-110-17	DIODE RD10ESB2	
D1248	8-719-981-99	DIODE MTZJ-3.3	
D1261	8-719-110-17	DIODE RD10ESB2	
D1262	8-719-110-17	DIODE RD10ESB2	
D1263	8-719-110-17	DIODE RD10ESB2	
D1264	8-719-110-17	DIODE RD10ESB2	
<FERRITE BEAD>			
FB501	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB502	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB503	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	



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REF. NO.	PART NO.	DESCRIPTION	REMARK
		<IC>	
IC001	8-752-868-44	IC CXP85640-004S	
IC002	8-759-354-28	IC ST24C02FM6TR	
IC003	8-747-905-11	IC SBX1790-51	
IC351	8-752-076-08	IC CXA2025S	
IC461	8-759-980-43	IC TDA2009A	
IC501	8-759-700-07	IC NJM2903M	
IC561	8-759-980-58	IC TDA8172	
IC1001	8-752-058-68	IC CXA1315M	
IC1261	8-759-366-78	IC MM1313AD	
IC1401	8-759-369-39	IC BH3856FS-E2	
IC1402	8-759-100-96	IC uPC4558G2	
		<JACK>	
J1232	1-774-751-11	TERMINAL BLOCK, S	
J1233	1-774-749-11	JACK BLOCK, PIN	
J1234	1-774-750-11	JACK BLOCK, PIN	
		<CHIP CONDUCTOR>	
JR001	1-216-295-91	CONDUCTOR, CHIP	
JR1351	1-216-295-91	CONDUCTOR, CHIP	
JR1352	1-216-295-91	CONDUCTOR, CHIP	
JR4101	1-216-295-91	CONDUCTOR, CHIP	
JR4108	1-216-295-91	CONDUCTOR, CHIP	
JR4110	1-216-295-91	CONDUCTOR, CHIP	
JR4114	1-216-295-91	CONDUCTOR, CHIP	
JR4116	1-216-295-91	CONDUCTOR, CHIP	
JR4121	1-216-295-91	CONDUCTOR, CHIP	
		<COIL>	
L001	1-408-421-00	INDUCTOR 100UH	
L002	1-408-421-00	INDUCTOR 100UH	
L003	1-410-470-11	INDUCTOR 10UH	
L004	1-410-470-11	INDUCTOR 10UH	
L352	1-412-537-31	INDUCTOR 100UH	
L461	1-410-470-11	INDUCTOR 10UH	
L501	Δ 1-409-861-11	COIL, HORIZONTAL LINEARITY	
L502	1-412-552-11	INDUCTOR 2.2mH	
L503	1-406-677-11	COIL, CHOKE 10mH	
L511	1-406-607-11	COIL, CHOKE 15mH	
L517	1-412-552-11	INDUCTOR 2.2mH	
L1101	1-408-421-00	INDUCTOR 100UH	
L1102	1-410-470-11	INDUCTOR 10UH	
L1401	1-408-421-00	INDUCTOR 100UH	
		<IC LINK>	
PS461	Δ 1-532-984-91	LINK, IC (2A/90V)	
		<TRANSISTOR>	
Q001	8-729-216-22	TRANSISTOR 2SA1162-G	
Q002	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q003	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q004	8-729-216-22	TRANSISTOR 2SA1162-G	
Q010	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q011	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q012	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q013	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q014	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q015	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q016	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q017	8-729-216-22	TRANSISTOR 2SA1162-G	
Q301	8-729-216-22	TRANSISTOR 2SA1162-G	

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q302	8-729-216-22	TRANSISTOR 2SA1162-G	
Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q354	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q356	8-729-216-22	TRANSISTOR 2SA1162-G	
Q358	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q461	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q462	8-729-216-22	TRANSISTOR 2SA1162-G	
Q501	8-729-140-96	TRANSISTOR 2SD774-34	
Q502	8-729-016-32	TRANSISTOR 2SC4927-01	
Q503	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q511	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q512	8-729-809-29	TRANSISTOR 2SC4159-E	
Q561	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q562	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q563	8-729-105-08	TRANSISTOR 2SA1330-O6	
Q1102	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1103	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1231	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1232	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1261	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1262	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1263	8-729-422-27	TRANSISTOR 2SD601A-Q	
		<RESISTOR>	
R001	1-216-045-00	METAL GLAZE 680	5% 1/10W
R002	1-247-815-91	CARBON 220	5% 1/4W
R003	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R004	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R005	1-247-815-91	CARBON 220	5% 1/4W
R007	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R009	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R010	1-216-037-00	METAL GLAZE 330	5% 1/10W
R011	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R012	1-216-033-00	METAL GLAZE 220	5% 1/10W
R013	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R014	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R015	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R016	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R019	1-249-425-11	CARBON 4.7K	5% 1/4W
R020	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R023	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R024	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R025	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R026	1-216-019-00	METAL GLAZE 56	5% 1/10W
R027	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R028	1-249-417-11	CARBON 1K	5% 1/4W
R029	1-216-025-91	METAL GLAZE 100	5% 1/10W
R030	1-249-425-11	CARBON 4.7K	5% 1/4W
R032	1-247-815-91	CARBON 220	5% 1/4W
R034	1-247-815-91	CARBON 220	5% 1/4W
R035	1-247-815-91	CARBON 220	5% 1/4W
R036	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R037	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R038	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R039	1-247-807-31	CARBON 100	5% 1/4W
R044	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R046	1-247-815-91	CARBON 220	5% 1/4W
R047	1-249-417-11	CARBON 1K	5% 1/4W
R048	1-249-417-11	CARBON 1K	5% 1/4W
R049	1-249-417-11	CARBON 1K	5% 1/4W
R051	1-247-815-91	CARBON 220	5% 1/4W
R052	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R053	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R054	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R055	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R056	1-216-033-00	METAL GLAZE 220	5% 1/10W
R057	1-249-417-11	CARBON 1K	5% 1/4W
R058	1-216-033-00	METAL GLAZE 220	5% 1/10W

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• The components identified by \boxtimes 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
R059	1-216-047-91	METAL GLAZE 820	5% 1/10W
R060	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R061	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R062	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R063	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R064	1-247-815-91	CARBON 220	5% 1/4W
R065	1-247-815-91	CARBON 220	5% 1/4W
R066	1-247-815-91	CARBON 220	5% 1/4W
R067	1-249-413-11	CARBON 470	5% 1/4W
R068	1-247-815-91	CARBON 220	5% 1/4W
R069	1-247-815-91	CARBON 220	5% 1/4W
R070	1-247-815-91	CARBON 220	5% 1/4W
R071	1-247-815-91	CARBON 220	5% 1/4W
R072	1-216-033-00	METAL GLAZE 220	5% 1/10W
R073	1-216-033-00	METAL GLAZE 220	5% 1/10W
R074	1-216-033-00	METAL GLAZE 220	5% 1/10W
R075	1-216-033-00	METAL GLAZE 220	5% 1/10W
R076	1-216-033-00	METAL GLAZE 220	5% 1/10W
R077	1-216-033-00	METAL GLAZE 220	5% 1/10W
R078	1-249-417-11	CARBON 1K	5% 1/4W
R079	1-216-033-00	METAL GLAZE 220	5% 1/10W
R080	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R081	1-216-025-91	METAL GLAZE 100	5% 1/10W
R082	1-216-025-91	METAL GLAZE 100	5% 1/10W
R083	1-249-429-11	CARBON 10K	5% 1/4W
R084	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R087	1-247-815-91	CARBON 220	5% 1/4W
R092	1-249-429-11	CARBON 10K	5% 1/4W
R097	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R099	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R131	1-216-035-00	METAL GLAZE 270	5% 1/10W
R132	1-216-115-00	METAL GLAZE 560K	5% 1/10W
R133	1-216-039-00	METAL GLAZE 390	5% 1/10W
R135	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R136	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R137	1-216-047-91	METAL GLAZE 820	5% 1/10W
R311	1-216-295-91	CONDUCTOR, CHIP	
R312	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R313	1-216-295-91	CONDUCTOR, CHIP	
R314	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R353	1-208-786-11	METAL GLAZE 1.5K	0.50% 1/10W
R354	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R355	1-216-033-00	METAL GLAZE 220	5% 1/10W
R356	1-216-033-00	METAL GLAZE 220	5% 1/10W
R358	1-247-815-91	CARBON 220	5% 1/4W
R359	1-247-815-91	CARBON 220	5% 1/4W
R360	1-247-815-91	CARBON 220	5% 1/4W
R361	1-216-025-91	METAL GLAZE 100	5% 1/10W
R362	1-216-025-91	METAL GLAZE 100	5% 1/10W
R363	1-216-025-91	METAL GLAZE 100	5% 1/10W
R364	1-216-101-00	METAL GLAZE 150K	5% 1/10W
R365	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R366	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R367	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R368	1-249-441-11	CARBON 100K	5% 1/4W
R369	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R372	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R373	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R374	1-216-125-00	METAL GLAZE 1.5M	5% 1/10W
R375	1-216-025-91	METAL GLAZE 100	5% 1/10W
R376	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R379	1-216-033-00	METAL GLAZE 220	5% 1/10W
R380	1-247-815-91	CARBON 220	5% 1/4W
R381	1-247-815-91	CARBON 220	5% 1/4W
R382	1-216-033-00	METAL GLAZE 220	5% 1/10W
R383	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R384	1-216-109-00	METAL GLAZE 330K	5% 1/10W
R385	1-249-422-11	CARBON 2.7K	5% 1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R386	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R387	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R388	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R389	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R390	1-216-035-00	METAL GLAZE 270	5% 1/10W
R391	1-208-810-11	METAL GLAZE 15K	0.50% 1/10W
R392	1-216-025-91	METAL GLAZE 100	5% 1/10W
R393	1-216-043-91	METAL GLAZE 560	5% 1/10W
R394	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R395	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R397	1-249-425-11	CARBON 4.7K	5% 1/4W
R461	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R462	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R463	1-249-435-11	CARBON 33K	5% 1/4W
R464	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R465	1-249-413-11	CARBON 470	5% 1/4W
R466	1-126-933-11	ELECT 100MF	20% 16V
R467	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W
R469	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R471	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W
R472	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R473	1-249-398-11	CARBON 27	5% 1/4W
R475	1-249-430-11	CARBON 12K	5% 1/4W
R476	1-249-430-11	CARBON 12K	5% 1/4W
R477	1-249-398-11	CARBON 27	5% 1/4W
R478	1-249-418-11	CARBON 1.2K	5% 1/4W F
R479	1-249-418-11	CARBON 1.2K	5% 1/4W F
R480	1-249-385-11	CARBON 2.2	5% 1/4W F
R481	1-249-385-11	CARBON 2.2	5% 1/4W F
R482	1-249-421-11	CARBON 2.2K	5% 1/4W
R483	1-249-421-11	CARBON 2.2K	5% 1/4W
R501	1-216-037-00	METAL GLAZE 330	5% 1/10W
R502	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R503	1-249-426-11	CARBON 5.6K	5% 1/4W F
R504	1-215-918-00	METAL OXIDE 1.5K	5% 3W F
R505	1-249-431-11	CARBON 15K	5% 1/4W
R506	1-215-861-00	METAL OXIDE 47	5% 1W F
R507	1-249-401-11	CARBON 47	5% 1/4W
R508	1-249-427-11	CARBON 6.8K	5% 1/4W
R509	1-247-750-11	CARBON 680	5% 1/2W F
R510	1-215-860-11	METAL OXIDE 33	5% 1W F
R511	1-216-449-11	METAL OXIDE 56	5% 2W F
R512	1-216-450-00	METAL OXIDE 82	5% 2W F
R513	1-216-347-11	METAL OXIDE 0.68	5% 1W F
R515	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R516	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R517	1-249-415-11	CARBON 680	5% 1/4W
R518	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R519	1-249-411-11	CARBON 330	5% 1/4W
R521	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R523	1-216-075-00	METAL GLAZE 12K	5% 1/10W
R524	1-249-429-11	CARBON 10K	5% 1/4W
R525	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R528	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R529	1-208-814-11	METAL GLAZE 22K	0.50% 1/10W
\boxtimes R530	Δ	METAL GLAZE	1/10W
\boxtimes R531	Δ	METAL GLAZE	1/10W
R532	1-208-760-11	METAL GLAZE 120	0.50% 1/10W
R533	1-215-902-11	METAL OXIDE 47K	5% 1W F
R535	1-216-101-00	METAL GLAZE 150K	5% 1/10W
R536	Δ 1-249-377-11	CARBON 0.47	5% 1/4W F
R537	Δ 1-249-377-11	CARBON 0.47	5% 1/4W F
R538	1-247-887-00	CARBON 220K	5% 1/4W
R546	1-215-456-00	METAL 30K	1% 1/4W
R547	1-215-457-00	METAL 33K	1% 1/4W
R549	1-215-437-00	METAL 4.7K	1% 1/4W
R550	Δ 1-249-377-11	CARBON 0.47	5% 1/4W F
R551	1-215-873-00	METAL OXIDE 4.7K	5% 1W F



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 for safety.
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 specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R553	Δ 1-249-377-11	CARBON 0.47	5% 1/4W F	R1260	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R561	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1261	1-216-025-91	METAL GLAZE 100	5% 1/10W
R563	1-216-351-00	METAL OXIDE 1.5	5% 1W F	R1262	1-216-025-91	METAL GLAZE 100	5% 1/10W
R564	1-249-393-11	CARBON 10	5% 1/4W	R1263	1-216-025-91	METAL GLAZE 100	5% 1/10W
R565	1-215-890-11	METAL OXIDE 470	5% 2W F	R1264	1-216-025-91	METAL GLAZE 100	5% 1/10W
R566	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1265	1-216-025-91	METAL GLAZE 100	5% 1/10W
R567	Δ 1-249-385-11	CARBON 2.2	5% 1/4W F	R1266	1-216-025-91	METAL GLAZE 100	5% 1/10W
R568	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1273	1-216-025-91	METAL GLAZE 100	5% 1/10W
R569	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1274	1-216-025-91	METAL GLAZE 100	5% 1/10W
R570	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R1277	1-247-815-91	CARBON 220	5% 1/4W
R571	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1278	1-247-815-91	CARBON 220	5% 1/4W
R572	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R1280	1-216-025-91	METAL GLAZE 100	5% 1/10W
R573	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R1282	1-216-025-91	METAL GLAZE 100	5% 1/10W
R574	1-216-365-00	METAL OXIDE 0.47	5% 2W F	R1283	1-247-791-91	CARBON 22	5% 1/4W
R575	1-216-113-00	METAL GLAZE 470K	5% 1/10W	R1284	1-247-807-31	CARBON 100	5% 1/4W
R576	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1286	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R577	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R1287	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R578	1-208-784-11	METAL GLAZE 1.2K	0.50% 1/10W	R1288	1-247-807-31	CARBON 100	5% 1/4W
R579	1-208-842-11	METAL GLAZE 330K	0.50% 1/10W	R1290	1-216-043-91	METAL GLAZE 560	5% 1/10W
R580	1-249-441-11	CARBON 100K	5% 1/4W	R1291	1-216-045-00	METAL GLAZE 680	5% 1/10W
R1001	1-247-807-31	CARBON 100	5% 1/4W	R1292	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1002	1-247-807-31	CARBON 100	5% 1/4W	R1293	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1005	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1294	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1009	1-216-033-00	METAL GLAZE 220	5% 1/10W	R1295	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1010	1-216-033-00	METAL GLAZE 220	5% 1/10W	R1297	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1101	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R1351	1-247-815-91	CARBON 220	5% 1/4W
R1102	1-215-900-11	METAL OXIDE 22K	5% 2W F	R1352	1-247-815-91	CARBON 220	5% 1/4W
R1103	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W	R1353	1-247-815-91	CARBON 220	5% 1/4W
R1104	1-216-083-00	METAL GLAZE 27K	5% 1/10W	R1354	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1105	1-216-689-11	METAL GLAZE 39K	5% 1/10W	R1355	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1106	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R1356	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1107	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R1357	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1108	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1358	1-247-807-31	CARBON 100	5% 1/4W
R1109	1-216-019-00	METAL GLAZE 56	5% 1/10W	R1359	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1110	1-216-019-00	METAL GLAZE 56	5% 1/10W	R1360	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1111	1-216-019-00	METAL GLAZE 56	5% 1/10W	R1361	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R1115	1-216-045-00	METAL GLAZE 680	5% 1/10W	R1362	1-216-295-91	CONDUCTOR, CHIP	
R1117	1-249-425-11	CARBON 4.7K	5% 1/4W	R1402	1-249-429-11	CARBON 10K	5% 1/4W
R1118	1-249-425-11	CARBON 4.7K	5% 1/4W	R1404	1-249-429-11	CARBON 10K	5% 1/4W
R1120	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	R1407	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1121	1-216-035-00	METAL GLAZE 270	5% 1/10W	R1411	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1122	1-216-115-00	METAL GLAZE 560K	5% 1/10W	R1412	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1123	1-216-039-00	METAL GLAZE 390	5% 1/10W	R1413	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1125	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	R1414	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1126	1-216-035-00	METAL GLAZE 270	5% 1/10W	R1415	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1127	1-216-115-00	METAL GLAZE 560K	5% 1/10W	R1418	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1128	1-216-039-00	METAL GLAZE 390	5% 1/10W	R1419	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1130	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	R1420	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1234	1-249-441-11	CARBON 100K	5% 1/4W	R1421	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1240	1-216-022-00	METAL GLAZE 75	5% 1/10W	R1424	1-247-807-31	CARBON 100	5% 1/4W
R1241	1-216-022-00	METAL GLAZE 75	5% 1/10W	R1425	1-247-807-31	CARBON 100	5% 1/4W
R1242	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R1243	1-249-441-11	CARBON 100K	5% 1/4W				
R1244	1-216-022-00	METAL GLAZE 75	5% 1/10W				
R1245	1-216-113-00	METAL GLAZE 470K	5% 1/10W				
R1246	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R1247	1-216-113-00	METAL GLAZE 470K	5% 1/10W				
R1248	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R1249	1-216-022-00	METAL GLAZE 75	5% 1/10W				
R1250	1-216-113-00	METAL GLAZE 470K	5% 1/10W				
R1251	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R1252	1-216-113-00	METAL GLAZE 470K	5% 1/10W				
R1253	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R1254	1-216-113-00	METAL GLAZE 470K	5% 1/10W				
R1255	1-216-049-91	METAL GLAZE 1K	5% 1/10W				
R1256	1-216-113-00	METAL GLAZE 470K	5% 1/10W				
R1257	1-216-049-91	METAL GLAZE 1K	5% 1/10W				
R1258	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W				
R1259	1-216-097-91	METAL GLAZE 100K	5% 1/10W				
						<SWITCH>	
				S001	1-692-431-21	SWITCH, TACTILE	
				S002	1-692-431-21	SWITCH, TACTILE	
				S003	1-692-431-21	SWITCH, TACTILE	
				S004	1-692-431-21	SWITCH, TACTILE	
				S005	1-692-431-21	SWITCH, TACTILE	
				S006	1-692-431-21	SWITCH, TACTILE	
				S007	Δ 1-692-431-21	SWITCH, TACTILE	
				S501	1-572-707-11	SWITCH, LEVER	
						<TRANSFORMER>	
				T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
				T502	Δ 1-424-545-22	TRANSFORMER, FERRITE (PMT)	
				T503	Δ 1-453-207-11	TRANSFORMER ASSY, FLYBACK	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
<TUNER>			
TU102	Δ 8-598-341-00	TUNER BTF-WA405	
<CRYSTAL>			
X001	1-578-774-11	VIBRATOR, CRYSTAL	
X353	1-567-505-11	OSCILLATOR, CRYSTAL	
X354	1-577-611-11	OSCILLATOR, CERAMIC	

* A-1297-708-A A BOARD, COMPLETE			

(KV-27S20(U)/27S20(CND)/29PS1(E) /29RS20(E)/29RS20C(E)/29SD1(E))			
* 4-051-927-01 CASE, SHIELD			
4-382-854-11 SCREW (M3X10), P, SW (+)			
<CAPACITOR>			
C001	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C003	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V
C005	1-124-903-11	ELECT 1MF	20% 50V
C009	1-126-967-11	ELECT 47MF	20% 50V
C010	1-163-033-91	CERAMIC CHIP 0.022MF	50V
C011	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C012	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C013	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C023	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C028	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C029	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C035	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C036	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C051	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C053	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C061	1-163-033-91	CERAMIC CHIP 0.022MF	50V
C062	1-163-033-91	CERAMIC CHIP 0.022MF	50V
C063	1-126-935-11	ELECT 470MF	20% 16V
C068	1-164-096-11	CERAMIC 0.01MF	50V
C071	1-164-096-11	CERAMIC 0.01MF	50V
C072	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C353	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C354	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C355	1-124-902-00	ELECT 0.47MF	20% 50V
C356	1-126-963-11	ELECT 4.7MF	20% 50V
C357	1-124-902-00	ELECT 0.47MF	20% 50V
C358	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C359	1-126-933-11	ELECT 100MF	20% 16V
C363	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C364	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C365	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C366	1-137-399-11	FILM 0.1MF	5% 50V
C367	1-137-399-11	FILM 0.1MF	5% 50V
C368	1-137-399-11	FILM 0.1MF	5% 50V
C369	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C370	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C371	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C372	1-124-902-00	ELECT 0.47MF	20% 50V
C373	1-124-903-11	ELECT 1MF	20% 50V
C375	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C376	1-126-964-11	ELECT 10MF	20% 50V
C377	1-137-399-11	FILM 0.1MF	5% 50V
C378	1-136-244-11	FILM 0.1MF	5% 50V
C379	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C380	1-126-935-11	ELECT 470MF	20% 16V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C383	1-137-399-11	FILM 0.1MF	5% 50V
C385	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C386	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C387	1-124-925-11	ELECT 2.2MF	20% 50V
C388	1-124-902-00	ELECT 0.47MF	20% 50V
C390	1-124-903-11	ELECT 1MF	20% 50V
C391	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C392	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C462	1-124-925-11	ELECT 2.2MF	20% 50V
C463	1-124-925-11	ELECT 2.2MF	20% 50V
C466	1-104-666-11	ELECT 220MF	20% 25V
C468	1-104-664-11	ELECT 47MF	20% 25V
C470	1-124-925-11	ELECT 2.2MF	20% 50V
C471	1-104-666-11	ELECT 220MF	20% 25V
C472	1-136-173-00	FILM 0.47MF	5% 50V
C473	1-136-169-00	FILM 0.22MF	5% 50V
C474	1-126-942-61	ELECT 1000MF	20% 25V
C475	1-136-169-00	FILM 0.22MF	5% 50V
C476	1-126-942-61	ELECT 1000MF	20% 25V
C477	1-126-942-61	ELECT 1000MF	20% 25V
C501	1-102-110-00	CERAMIC 220PF	10% 50V
C502	1-124-902-00	ELECT 0.47MF	20% 50V
C503	1-163-003-11	CERAMIC CHIP 330PF	10% 50V
C504	1-102-212-00	CERAMIC 820PF	10% 500V
C505	1-102-002-00	CERAMIC 680PF	10% 500V
C506	1-106-383-00	MYLAR 0.047MF	10% 200V
C507	Δ 1-162-116-51	CERAMIC 680PF	10% 2KV
C508	1-102-244-00	CERAMIC 220PF	10% 500V
C509	1-162-116-00	CERAMIC 680PF	10% 2KV
C510	1-106-367-00	MYLAR 0.01MF	10% 100V
C511	Δ 1-115-460-11	FILM 0.022MF	3% 1.2KV
C513	Δ 1-130-895-51	FILM 0.056MF	5% 400V
C514	Δ 1-104-844-11	FILM 0.62MF	5% 200V
C515	1-106-343-00	MYLAR 0.001MF	10% 100V
C516	1-115-461-11	FILM 2MF	5% 200V
C517	1-107-649-11	ELECT 2.2MF	20% 250V
C518	1-106-395-00	MYLAR 0.15MF	10% 200V
C519	1-162-815-11	CERAMIC 47PF	5% 500V
C520	1-164-646-11	CERAMIC 2200PF	10% 500V
C521	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C522	1-124-903-11	ELECT 1MF	20% 50V
C525	1-102-244-00	CERAMIC 220PF	10% 500V
C526	1-107-662-11	ELECT 22MF	20% 250V
C527	1-162-116-00	CERAMIC 680PF	10% 2KV
C528	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C529	1-128-551-11	ELECT 22MF	20% 25V
C530	1-137-366-11	FILM 0.0022MF	5% 50V
C531	1-126-965-11	ELECT 22MF	20% 50V
C532	1-126-965-11	ELECT 22MF	20% 50V
C537	1-126-941-11	ELECT 470MF	20% 25V
C539	1-126-935-11	ELECT 470MF	20% 16V
C540	1-123-024-21	ELECT 33MF	160V
C541	1-128-560-11	ELECT 22MF	20% 100V
C545	1-106-387-00	MYLAR 0.068MF	10% 200V
C561	1-126-967-11	ELECT 47MF	20% 50V
C563	1-126-923-11	ELECT 220MF	20% 10V
C564	1-124-903-11	ELECT 1MF	20% 50V
C565	1-126-969-11	ELECT 220MF	20% 50V
C566	1-126-964-11	ELECT 10MF	20% 50V
C568	1-137-399-11	FILM 0.1MF	5% 50V
C571	1-104-664-11	ELECT 47MF	20% 25V
C1002	1-126-964-11	ELECT 10MF	20% 50V
C1101	1-126-768-11	ELECT 2200MF	20% 16V
C1103	1-126-965-11	ELECT 22MF	20% 50V
C1104	1-126-967-11	ELECT 47MF	20% 16V
C1105	1-126-967-11	ELECT 47MF	20% 16V
C1106	1-126-964-11	ELECT 10MF	20% 50V
C1107	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C1108	1-124-903-11	ELECT 1MF	20% 50V



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REF. NO.	PART NO.	DESCRIPTION	REMARK
C1109	1-126-964-11	ELECT 10MF	20% 50V
C1110	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C1111	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C1112	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C1238	1-136-165-00	FILM 0.1MF	5% 50V
C1239	1-124-903-11	ELECT 1MF	20% 50V
C1240	1-124-903-11	ELECT 1MF	20% 50V
C1244	1-124-902-00	ELECT 0.47MF	20% 50V
C1245	1-124-902-00	ELECT 0.47MF	20% 50V
C1261	1-126-967-11	ELECT 47MF	20% 16V
C1262	1-126-967-11	ELECT 47MF	20% 16V
C1263	1-124-903-11	ELECT 1MF	20% 50V
C1264	1-124-903-11	ELECT 1MF	20% 50V
C1265	1-136-165-00	FILM 0.1MF	5% 50V
C1266	1-107-701-11	ELECT 47MF	20% 16V
C1267	1-136-165-00	FILM 0.1MF	5% 50V
C1268	1-124-903-11	ELECT 1MF	20% 50V
C1269	1-124-903-11	ELECT 1MF	20% 50V
C1270	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1351	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C1352	1-126-933-11	ELECT 100MF	20% 16V
C1353	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C1354	1-216-295-91	CONDUCTOR, CHIP	
C1401	1-124-902-00	ELECT 0.47MF	20% 50V
C1402	1-126-964-11	ELECT 10MF	20% 50V
C1403	1-124-902-00	ELECT 0.47MF	20% 50V
C1404	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C1405	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C1406	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C1407	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C1408	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C1409	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C1410	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C1411	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C1412	1-124-925-11	ELECT 2.2MF	20% 50V
C1413	1-124-925-11	ELECT 2.2MF	20% 50V
C1414	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C1415	1-126-965-11	ELECT 22MF	20% 50V
C1416	1-126-933-11	ELECT 100MF	20% 16V
C1417	1-126-965-11	ELECT 22MF	20% 50V
C1420	1-164-005-11	CERAMIC CHIP 0.47MF	25V
<FILTER BLOCK>			
CM305	1-473-548-11	FILTER BLOCK, COMB	
<CONNECTOR>			
CN351	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN461	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN501	* 1-580-798-11	CONNECTOR PIN (DY) 6P	
CN503	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1103	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P	
CN1641	* 1-564-515-11	PLUG, CONNECTOR 12P	
<DIODE>			
D001	8-719-991-33	DIODE 1SS133T-77	
D002	8-719-109-89	DIODE RD5.6ESB2	
D003	8-719-991-33	DIODE 1SS133T-77	
D004	8-719-110-17	DIODE RD10ESB2	
D005	8-719-991-33	DIODE 1SS133T-77	
D006	1-810-039-31	LED UNIT	
D011	8-719-983-20	DIODE MTZJ-T-77-4.3C	
D013	8-719-991-33	DIODE 1SS133T-77	
D014	8-719-991-33	DIODE 1SS133T-77	
D015	8-719-991-33	DIODE 1SS133T-77	
D353	8-719-991-33	DIODE 1SS133T-77	

REF. NO.	PART NO.	DESCRIPTION	REMARK
D356	8-719-991-33	DIODE 1SS133T-77	
D360	8-719-110-17	DIODE RD10ESB2	
D362	8-719-991-33	DIODE 1SS133T-77	
D462	8-719-991-33	DIODE 1SS133T-77	
D501	8-719-109-89	DIODE RD5.6ESB2	
D502	8-719-945-80	DIODE ERC06-15S	
D503	8-719-945-80	DIODE ERC06-15S	
D504	8-719-900-26	DIODE ERD29-08J	
D505	8-719-908-03	DIODE GP08D	
D506	8-719-908-03	DIODE GP08D	
D507	8-719-991-33	DIODE 1SS133T-77	
D515	8-719-302-43	DIODE EL1Z	
D516	8-719-991-33	DIODE 1SS133T-77	
D518	8-719-991-33	DIODE 1SS133T-77	
D519	Δ 8-719-302-43	DIODE EL1Z	
D520	8-719-991-33	DIODE 1SS133T-77	
D521	8-719-921-63	DIODE MTZJ-7.5B	
D530	8-719-979-85	DIODE EGP20G	
D531	8-719-979-85	DIODE EGP20G	
D534	8-719-302-43	DIODE EL1Z	
D561	8-719-908-03	DIODE GP08D	
D562	8-719-991-33	DIODE 1SS133T-77	
D1102	8-719-982-24	DIODE MTZJ-33A	
D1103	8-719-109-89	DIODE RD5.6ESB2	
D1241	8-719-110-17	DIODE RD10ESB2	
D1242	8-719-110-17	DIODE RD10ESB2	
D1246	8-719-110-17	DIODE RD10ESB2	
D1247	8-719-110-17	DIODE RD10ESB2	
D1248	8-719-981-99	DIODE MTZJ-3.3	
D1261	8-719-110-17	DIODE RD10ESB2	
D1262	8-719-110-17	DIODE RD10ESB2	
D1263	8-719-110-17	DIODE RD10ESB2	
D1264	8-719-110-17	DIODE RD10ESB2	
<FERRITE BEAD>			
FB501	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB502	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB503	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
<IC>			
IC001	8-752-868-44	IC CXP85640-004S	
IC002	8-759-354-28	IC ST24C02FM6TR	
IC003	8-747-905-11	IC SBX1790-51	
IC351	8-752-076-08	IC CXA2025S	
IC461	8-759-980-43	IC TDA2009A	
IC501	8-759-700-07	IC NJM2903M	
IC561	8-759-980-58	IC TDA8172	
IC1261	8-759-366-77	IC MM1311AD	
IC1401	8-759-369-39	IC BH3856FS-E2	
IC1402	8-759-100-96	IC uPCA4558G2	
<JACK>			
J1232	1-774-749-11	JACK BLOCK, PIN	
J1234	1-774-750-11	JACK BLOCK, PIN	
<CHIP CONDUCTOR>			
JR001	1-216-295-91	CONDUCTOR, CHIP	
JR351	1-216-295-91	CONDUCTOR, CHIP	
JR352	1-216-295-91	CONDUCTOR, CHIP	
JR1264	1-216-295-91	CONDUCTOR, CHIP	
JR1351	1-216-295-91	CONDUCTOR, CHIP	
JR1352	1-216-295-91	CONDUCTOR, CHIP	
JR4101	1-216-295-91	CONDUCTOR, CHIP	
JR4108	1-216-295-91	CONDUCTOR, CHIP	
JR4110	1-216-295-91	CONDUCTOR, CHIP	
JR4114	1-216-295-91	CONDUCTOR, CHIP	

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

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



REF. NO.	PART NO.	DESCRIPTION	REMARK
JR4116	1-216-295-91	CONDUCTOR, CHIP	
JR4121	1-216-295-91	CONDUCTOR, CHIP	
<COIL>			
L001	1-408-421-00	INDUCTOR 100UH	
L002	1-408-421-00	INDUCTOR 100UH	
L003	1-410-470-11	INDUCTOR 10UH	
L004	1-410-470-11	INDUCTOR 10UH	
L352	1-412-537-31	INDUCTOR 100UH	
L461	1-410-470-11	INDUCTOR 10UH	
L501	Δ 1-409-861-11	COIL, HORIZONTAL LINEARITY	
L502	1-412-552-11	INDUCTOR 2.2mH	
L503	1-406-677-11	COIL, CHOKE 10mH	
L511	1-406-607-11	COIL, CHOKE 15mH	
L517	1-412-552-11	INDUCTOR 2.2mH	
L1101	1-408-421-00	INDUCTOR 100UH	
L1102	1-410-470-11	INDUCTOR 10UH	
L1401	1-408-421-00	INDUCTOR 100UH	
<IC LINK>			
PS461	Δ 1-532-984-91	LINK, IC (2A/90V)	
<TRANSISTOR>			
Q001	8-729-216-22	TRANSISTOR 2SA1162-G	
Q002	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q003	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q004	8-729-216-22	TRANSISTOR 2SA1162-G	
Q010	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q011	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q012	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q013	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q014	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q015	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q016	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q017	8-729-216-22	TRANSISTOR 2SA1162-G	
Q301	8-729-216-22	TRANSISTOR 2SA1162-G	
Q302	8-729-216-22	TRANSISTOR 2SA1162-G	
Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q354	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q356	8-729-216-22	TRANSISTOR 2SA1162-G	
Q358	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q461	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q462	8-729-216-22	TRANSISTOR 2SA1162-G	
Q501	8-729-140-96	TRANSISTOR 2SD774-34	
Q502	8-729-016-32	TRANSISTOR 2SC4927-01	
Q503	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q511	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q512	8-729-809-29	TRANSISTOR 2SC4159-E	
Q561	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q562	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q563	8-729-105-08	TRANSISTOR 2SA1330-O6	
Q1102	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1103	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1231	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1232	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1261	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1262	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1263	8-729-422-27	TRANSISTOR 2SD601A-Q	
<RESISTOR>			
R001	1-216-045-00	METAL GLAZE 680	5% 1/10W
R002	1-247-815-91	CARBON 220	5% 1/4W
R003	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R004	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R005	1-247-815-91	CARBON 220	5% 1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R007	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R009	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R010	1-216-037-00	METAL GLAZE 330	5% 1/10W
R011	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R012	1-216-033-00	METAL GLAZE 220	5% 1/10W
R013	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R014	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R015	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R016	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R019	1-249-425-11	CARBON 4.7K	5% 1/4W
R020	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R023	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R024	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R025	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R026	1-216-019-00	METAL GLAZE 56	5% 1/10W
R028	1-249-417-11	CARBON 1K	5% 1/4W
R029	1-216-025-91	METAL GLAZE 100	5% 1/10W
R030	1-249-425-11	CARBON 4.7K	5% 1/4W
R032	1-247-815-91	CARBON 220	5% 1/4W
R034	1-247-815-91	CARBON 220	5% 1/4W
R035	1-247-815-91	CARBON 220	5% 1/4W
R036	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R037	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R038	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R039	1-247-807-31	CARBON 100	5% 1/4W
R044	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R046	1-247-815-91	CARBON 220	5% 1/4W
R047	1-249-417-11	CARBON 1K	5% 1/4W
R048	1-249-417-11	CARBON 1K	5% 1/4W
R049	1-249-417-11	CARBON 1K	5% 1/4W
R051	1-247-815-91	CARBON 220	5% 1/4W
R052	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R053	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R054	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R055	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R056	1-216-033-00	METAL GLAZE 220	5% 1/10W
R057	1-249-417-11	CARBON 1K	5% 1/4W
R058	1-216-033-00	METAL GLAZE 220	5% 1/10W
R059	1-216-047-91	METAL GLAZE 820	5% 1/10W
R060	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R061	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R062	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R063	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R064	1-247-815-91	CARBON 220	5% 1/4W
R065	1-247-815-91	CARBON 220	5% 1/4W
R066	1-247-815-91	CARBON 220	5% 1/4W
R067	1-249-413-11	CARBON 470	5% 1/4W
R068	1-247-815-91	CARBON 220	5% 1/4W
R069	1-247-815-91	CARBON 220	5% 1/4W
R070	1-247-815-91	CARBON 220	5% 1/4W
R071	1-247-815-91	CARBON 220	5% 1/4W
R072	1-216-033-00	METAL GLAZE 220	5% 1/10W
R073	1-216-033-00	METAL GLAZE 220	5% 1/10W
R074	1-216-033-00	METAL GLAZE 220	5% 1/10W
R075	1-216-033-00	METAL GLAZE 220	5% 1/10W
R076	1-216-033-00	METAL GLAZE 220	5% 1/10W
R077	1-216-033-00	METAL GLAZE 220	5% 1/10W
R078	1-249-417-11	CARBON 1K	5% 1/4W
R079	1-216-033-00	METAL GLAZE 220	5% 1/10W
R080	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R081	1-216-025-91	METAL GLAZE 100	5% 1/10W
R082	1-216-025-91	METAL GLAZE 100	5% 1/10W
R083	1-249-429-11	CARBON 10K	5% 1/4W
R084	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R087	1-247-815-91	CARBON 220	5% 1/4W
R092	1-249-429-11	CARBON 10K	5% 1/4W
R097	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R099	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W



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

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

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R131	1-216-035-00	METAL GLAZE 270	5%	1/10W	R504	1-215-918-00 METAL OXIDE 1.5K	5% 3W F
R132	1-216-115-00	METAL GLAZE 560K	5%	1/10W	R505	1-249-431-11 CARBON 15K	5% 1/4W
R133	1-216-039-00	METAL GLAZE 390	5%	1/10W	R506	1-215-861-00 METAL OXIDE 47	5% 1W F
R135	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R507	1-249-401-11 CARBON 47	5% 1/4W
R136	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R508	1-249-427-11 CARBON 6.8K	5% 1/4W
R137	1-216-047-91	METAL GLAZE 820	5%	1/10W	R509	1-247-750-11 CARBON 680	5% 1/2W F
R311	1-216-295-91	CONDUCTOR, CHIP			R510	1-215-860-11 METAL OXIDE 33	5% 1W F
R312	1-216-049-91	METAL GLAZE 1K	5%	1/10W	R511	1-216-449-11 METAL OXIDE 56	5% 2W F
R313	1-216-295-91	CONDUCTOR, CHIP			R512	1-216-450-00 METAL OXIDE 82	5% 2W F
R314	1-216-049-91	METAL GLAZE 1K	5%	1/10W	R513	1-216-347-11 METAL OXIDE 0.68	5% 1W F
R353	1-208-786-11	METAL GLAZE 1.5K	0.50%	1/10W	R515	1-216-083-00 METAL GLAZE 27K	5% 1/10W
R354	1-216-077-00	METAL GLAZE 15K	5%	1/10W	R516	1-216-057-00 METAL GLAZE 2.2K	5% 1/10W
R355	1-216-033-00	METAL GLAZE 220	5%	1/10W	R517	1-249-415-11 CARBON 680	5% 1/4W
R356	1-216-033-00	METAL GLAZE 220	5%	1/10W	R518	1-216-073-00 METAL GLAZE 10K	5% 1/10W
R361	1-216-025-91	METAL GLAZE 100	5%	1/10W	R519	1-249-411-11 CARBON 330	5% 1/4W
R362	1-216-025-91	METAL GLAZE 100	5%	1/10W	R521	1-216-073-00 METAL GLAZE 10K	5% 1/10W
R363	1-216-025-91	METAL GLAZE 100	5%	1/10W	R523	1-216-075-00 METAL GLAZE 12K	5% 1/10W
R364	1-216-101-00	METAL GLAZE 150K	5%	1/10W	R524	1-249-429-11 CARBON 10K	5% 1/4W
R365	1-216-105-91	METAL GLAZE 220K	5%	1/10W	R525	1-216-071-00 METAL GLAZE 8.2K	5% 1/10W
R366	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R528	1-216-081-00 METAL GLAZE 22K	5% 1/10W
R367	1-216-097-91	METAL GLAZE 100K	5%	1/10W	R529	1-208-814-11 METAL GLAZE 22K	0.50% 1/10W
R368	1-249-441-11	CARBON 100K	5%	1/4W	R530	METAL GLAZE	1/10W
R369	1-216-097-91	METAL GLAZE 100K	5%	1/10W	R531	METAL GLAZE	1/10W
R372	1-216-113-00	METAL GLAZE 470K	5%	1/10W	R532	1-208-760-11 METAL GLAZE 120	0.50% 1/10W
R373	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R533	1-215-902-11 METAL OXIDE 47K	5% 1W F
R374	1-216-125-00	METAL GLAZE 1.5M	5%	1/10W	R535	1-216-101-00 METAL GLAZE 150K	5% 1/10W
R375	1-216-025-91	METAL GLAZE 100	5%	1/10W	R536	1-249-377-11 CARBON 0.47	5% 1/4W F
R376	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R537	1-249-377-11 CARBON 0.47	5% 1/4W F
R379	1-216-033-00	METAL GLAZE 220	5%	1/10W	R538	1-247-887-00 CARBON 220K	5% 1/4W
R380	1-247-815-91	CARBON 220	5%	1/4W	R546	1-215-456-00 METAL 30K	1% 1/4W
R381	1-247-815-91	CARBON 220	5%	1/4W	R547	1-215-457-00 METAL 33K	1% 1/4W
R382	1-216-033-00	METAL GLAZE 220	5%	1/10W	R549	1-215-437-00 METAL 4.7K	1% 1/4W
R383	1-216-049-91	METAL GLAZE 1K	5%	1/10W	R550	1-249-377-11 CARBON 0.47	5% 1/4W F
R384	1-216-109-00	METAL GLAZE 330K	5%	1/10W	R551	1-215-873-00 METAL OXIDE 4.7K	5% 1W F
R385	1-249-422-11	CARBON 2.7K	5%	1/4W	R553	1-249-377-11 CARBON 0.47	5% 1/4W F
R387	1-216-049-91	METAL GLAZE 1K	5%	1/10W	R561	1-216-073-00 METAL GLAZE 10K	5% 1/10W
R388	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R563	1-216-351-00 METAL OXIDE 1.5	5% 1W F
R389	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W	R564	1-249-393-11 CARBON 10	5% 1/4W
R390	1-216-035-00	METAL GLAZE 270	5%	1/10W	R565	1-215-890-11 METAL OXIDE 470	5% 2W F
R391	1-208-810-11	METAL GLAZE 15K	0.50%	1/10W	R566	1-216-073-00 METAL GLAZE 10K	5% 1/10W
R392	1-216-025-91	METAL GLAZE 100	5%	1/10W	R567	1-249-385-11 CARBON 2.2	5% 1/4W F
R393	1-216-043-91	METAL GLAZE 560	5%	1/10W	R568	1-216-073-00 METAL GLAZE 10K	5% 1/10W
R394	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W	R569	1-216-073-00 METAL GLAZE 10K	5% 1/10W
R395	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W	R570	1-216-089-91 METAL GLAZE 47K	5% 1/10W
R397	1-249-425-11	CARBON 4.7K	5%	1/4W	R571	1-216-073-00 METAL GLAZE 10K	5% 1/10W
R461	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R572	1-216-081-00 METAL GLAZE 22K	5% 1/10W
R462	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R573	1-216-097-91 METAL GLAZE 100K	5% 1/10W
R463	1-249-435-11	CARBON 33K	5%	1/4W	R574	1-216-365-00 METAL OXIDE 0.47	5% 2W F
R464	1-216-097-91	METAL GLAZE 100K	5%	1/10W	R575	1-216-113-00 METAL GLAZE 470K	5% 1/10W
R465	1-249-413-11	CARBON 470	5%	1/4W	R576	1-216-073-00 METAL GLAZE 10K	5% 1/10W
R466	1-126-933-11	ELECT 100MF	20%	16V	R577	1-216-097-91 METAL GLAZE 100K	5% 1/10W
R467	1-216-069-00	METAL GLAZE 6.8K	5%	1/10W	R578	1-208-784-11 METAL GLAZE 1.2K	0.50% 1/10W
R469	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W	R579	1-208-842-11 METAL GLAZE 330K	0.50% 1/10W
R471	1-216-069-00	METAL GLAZE 6.8K	5%	1/10W	R580	1-249-441-11 CARBON 100K	5% 1/4W
R472	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W	R1009	1-216-033-00 METAL GLAZE 220	5% 1/10W
R473	1-249-398-11	CARBON 27	5%	1/4W	R1010	1-216-033-00 METAL GLAZE 220	5% 1/10W
R475	1-249-430-11	CARBON 12K	5%	1/4W	R1101	1-216-049-91 METAL GLAZE 1K	5% 1/10W
R476	1-249-430-11	CARBON 12K	5%	1/4W	R1102	1-215-900-11 METAL OXIDE 22K	5% 2W F
R477	1-249-398-11	CARBON 27	5%	1/4W	R1103	1-216-051-00 METAL GLAZE 1.2K	5% 1/10W
R478	1-249-418-11	CARBON 1.2K	5%	1/4W F	R1104	1-216-083-00 METAL GLAZE 27K	5% 1/10W
R479	1-249-418-11	CARBON 1.2K	5%	1/4W F	R1105	1-216-689-11 METAL GLAZE 39K	5% 1/10W
R480	1-249-385-11	CARBON 2.2	5%	1/4W F	R1106	1-216-049-91 METAL GLAZE 1K	5% 1/10W
R481	1-249-385-11	CARBON 2.2	5%	1/4W F	R1107	1-216-065-00 METAL GLAZE 4.7K	5% 1/10W
R482	1-249-421-11	CARBON 2.2K	5%	1/4W	R1108	1-216-073-00 METAL GLAZE 10K	5% 1/10W
R483	1-249-421-11	CARBON 2.2K	5%	1/4W	R1109	1-216-019-00 METAL GLAZE 56	5% 1/10W
R501	1-216-037-00	METAL GLAZE 330	5%	1/10W	R1110	1-216-019-00 METAL GLAZE 56	5% 1/10W
R502	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W	R1111	1-216-019-00 METAL GLAZE 56	5% 1/10W
R503	1-249-426-11	CARBON 5.6K	5%	1/4W F	R1115	1-216-045-00 METAL GLAZE 680	5% 1/10W
					R1117	1-249-425-11 CARBON 4.7K	5% 1/4W

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REF. NO.	PART NO.	DESCRIPTION	REMARK
R1118	1-249-425-11	CARBON 4.7K	5% 1/4W
R1120	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1121	1-216-035-00	METAL GLAZE 270	5% 1/10W
R1122	1-216-115-00	METAL GLAZE 560K	5% 1/10W
R1123	1-216-039-00	METAL GLAZE 390	5% 1/10W
R1125	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1126	1-216-035-00	METAL GLAZE 270	5% 1/10W
R1127	1-216-115-00	METAL GLAZE 560K	5% 1/10W
R1128	1-216-039-00	METAL GLAZE 390	5% 1/10W
R1130	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1234	1-249-441-11	CARBON 100K	5% 1/4W
R1243	1-249-441-11	CARBON 100K	5% 1/4W
R1244	1-216-022-00	METAL GLAZE 75	5% 1/10W
R1245	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1246	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1247	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1248	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1254	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1255	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1256	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1257	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1258	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R1259	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1260	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R1261	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1262	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1264	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1266	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1272	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1277	1-247-815-91	CARBON 220	5% 1/4W
R1278	1-247-815-91	CARBON 220	5% 1/4W
R1280	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1282	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1284	1-247-807-31	CARBON 100	5% 1/4W
R1286	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1287	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1288	1-247-807-31	CARBON 100	5% 1/4W
R1290	1-216-043-91	METAL GLAZE 560	5% 1/10W
R1291	1-216-045-00	METAL GLAZE 680	5% 1/10W
R1292	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1293	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1294	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1295	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1296	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1351	1-247-815-91	CARBON 220	5% 1/4W
R1352	1-247-815-91	CARBON 220	5% 1/4W
R1353	1-247-815-91	CARBON 220	5% 1/4W
R1354	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1355	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1356	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1357	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1358	1-247-807-31	CARBON 100	5% 1/4W
R1359	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1360	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1361	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R1362	1-216-295-91	CONDUCTOR, CHIP	
R1402	1-249-429-11	CARBON 10K	5% 1/4W
R1404	1-249-429-11	CARBON 10K	5% 1/4W
R1407	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1411	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1412	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1413	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1414	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1415	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1418	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1419	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1420	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1421	1-216-025-91	METAL GLAZE 100	5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R1424	1-247-807-31	CARBON 100	5% 1/4W
R1425	1-247-807-31	CARBON 100	5% 1/4W
<SWITCH>			
S001	1-692-431-21	SWITCH, TACTILE	
S002	1-692-431-21	SWITCH, TACTILE	
S003	1-692-431-21	SWITCH, TACTILE	
S004	1-692-431-21	SWITCH, TACTILE	
S005	1-692-431-21	SWITCH, TACTILE	
S006	1-692-431-21	SWITCH, TACTILE	
S007	△ 1-692-431-21	SWITCH, TACTILE	
S501	1-572-707-11	SWITCH, LEVER	
<TRANSFORMER>			
T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
T502	△ 1-424-545-22	TRANSFORMER, FERRITE (PMT)	
T503	△ 1-453-207-11	TRANSFORMER ASSY, FRYBACK	NX-2609//X4C
<TUNER>			
TU102	△ 8-598-341-00	TUNER BTF-WA405	
<CRYSTAL>			
X001	1-578-774-11	VIBRATOR, CRYSTAL	
X353	1-567-505-11	OSCILLATOR, CRYSTAL	
X354	1-577-611-11	OSCILALTOR, CERAMIC	

* A-1297-709-A A BOARD, COMPLETE			

(KV-32S25(U)/32S25(CND))			
* 4-051-927-01 CASE, SHIELD			
4-382-854-11 SCREW (M3X10), P, SW (+)			
<CAPACITOR>			
C001	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C003	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V
C005	1-124-903-11	ELECT 1MF	20% 50V
C009	1-126-967-11	ELECT 47MF	20% 50V
C010	1-163-033-91	CERAMIC CHIP 0.022MF	50V
C011	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C012	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C013	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C023	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C028	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C029	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C035	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C036	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C051	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C053	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C061	1-163-033-91	CERAMIC CHIP 0.022MF	50V
C062	1-163-033-91	CERAMIC CHIP 0.022MF	50V
C063	1-126-935-11	ELECT 470MF	20% 16V
C068	1-164-096-11	CERAMIC 0.01MF	50V
C071	1-164-096-11	CERAMIC 0.01MF	50V
C072	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C353	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C354	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C355	1-124-902-00	ELECT 0.47MF	20% 50V
C356	1-126-963-11	ELECT 4.7MF	20% 50V
C357	1-124-902-00	ELECT 0.47MF	20% 50V
C358	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V



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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C359	1-126-933-11	ELECT	100MF 20%	16V	C532	1-126-965-11	ELECT 22MF 20% 50V
C360	1-124-902-00	ELECT	0.47MF 20%	50V	C537	1-126-941-11	ELECT 470MF 20% 25V
C361	1-124-902-00	ELECT	0.47MF 20%	50V	C539	1-126-935-11	ELECT 470MF 20% 16V
C362	1-124-902-00	ELECT	0.47MF 20%	50V	C540	1-123-024-21	ELECT 33MF 160V
C363	1-164-232-11	CERAMIC CHIP	0.01MF 10%	50V	C541	1-128-560-11	ELECT 22MF 20% 100V
C364	1-164-232-11	CERAMIC CHIP	0.01MF 10%	50V	C545	1-106-387-00	MYLAR 0.068MF 10% 200V
C365	1-164-232-11	CERAMIC CHIP	0.01MF 10%	50V	C561	1-126-967-11	ELECT 47MF 20% 50V
C366	1-137-399-11	FILM	0.1MF 5%	50V	C563	1-126-923-11	ELECT 220MF 20% 10V
C367	1-137-399-11	FILM	0.1MF 5%	50V	C564	1-124-903-11	ELECT 1MF 20% 50V
C368	1-137-399-11	FILM	0.1MF 5%	50V	C565	1-126-969-11	ELECT 220MF 20% 50V
C369	1-163-243-11	CERAMIC CHIP	47PF 5%	50V	C566	1-126-964-11	ELECT 10MF 20% 50V
C370	1-163-037-11	CERAMIC CHIP	0.022MF 10%	50V	C568	1-137-399-11	FILM 0.1MF 5% 50V
C371	1-163-141-00	CERAMIC CHIP	0.001MF 5%	50V	C571	1-104-664-11	ELECT 47MF 20% 25V
C372	1-124-902-00	ELECT	0.47MF 20%	50V	C1002	1-126-964-11	ELECT 10MF 20% 50V
C373	1-124-903-11	ELECT	1MF 20%	50V	C1101	1-126-768-11	ELECT 2200MF 20% 16V
C376	1-126-964-11	ELECT	10MF 20%	50V	C1103	1-126-965-11	ELECT 22MF 20% 50V
C377	1-137-399-11	FILM	0.1MF 5%	50V	C1104	1-126-967-11	ELECT 47MF 20% 16V
C378	1-136-244-11	FILM	0.1MF 5%	50V	C1105	1-126-967-11	ELECT 47MF 20% 16V
C379	1-164-232-11	CERAMIC CHIP	0.01MF 10%	50V	C1106	1-126-964-11	ELECT 10MF 20% 50V
C380	1-126-935-11	ELECT	470MF 20%	16V	C1107	1-163-037-11	CERAMIC CHIP 0.022MF 10% 50V
C383	1-137-399-11	FILM	0.1MF 5%	50V	C1108	1-124-903-11	ELECT 1MF 20% 50V
C385	1-164-182-11	CERAMIC CHIP	0.0033MF 10%	50V	C1109	1-126-964-11	ELECT 10MF 20% 50V
C386	1-164-232-11	CERAMIC CHIP	0.01MF 10%	50V	C1110	1-163-227-11	CERAMIC CHIP 10PF 0.5PF 50V
C387	1-124-925-11	ELECT	2.2MF 20%	50V	C1111	1-163-227-11	CERAMIC CHIP 10PF 0.5PF 50V
C388	1-124-902-00	ELECT	0.47MF 20%	50V	C1112	1-163-227-11	CERAMIC CHIP 10PF 0.5PF 50V
C390	1-124-903-11	ELECT	1MF 20%	50V	C1236	1-163-031-11	CERAMIC CHIP 0.01MF 50V
C391	1-163-017-00	CERAMIC CHIP	0.0047MF 10%	50V	C1237	1-136-165-00	FILM 0.1MF 5% 50V
C392	1-163-251-11	CERAMIC CHIP	100PF 5%	50V	C1238	1-136-165-00	FILM 0.1MF 5% 50V
C462	1-124-925-11	ELECT	2.2MF 20%	50V	C1239	1-124-903-11	ELECT 1MF 20% 50V
C463	1-124-925-11	ELECT	2.2MF 20%	50V	C1240	1-124-903-11	ELECT 1MF 20% 50V
C466	1-104-666-11	ELECT	220MF 20%	25V	C1241	1-136-165-00	FILM 0.1MF 5% 50V
C468	1-104-664-11	ELECT	47MF 20%	25V	C1242	1-124-903-11	ELECT 1MF 20% 50V
C470	1-124-925-11	ELECT	2.2MF 20%	50V	C1243	1-124-903-11	ELECT 1MF 20% 50V
C471	1-104-666-11	ELECT	220MF 20%	25V	C1244	1-124-902-00	ELECT 0.47MF 20% 50V
C472	1-136-173-00	FILM	0.47MF 5%	50V	C1245	1-124-902-00	ELECT 0.47MF 20% 50V
C473	1-136-169-00	FILM	0.22MF 5%	50V	C1261	1-126-967-11	ELECT 47MF 20% 16V
C474	1-126-942-61	ELECT	1000MF 20%	25V	C1262	1-126-967-11	ELECT 47MF 20% 16V
C475	1-136-169-00	FILM	0.22MF 5%	50V	C1263	1-124-903-11	ELECT 1MF 20% 50V
C476	1-126-942-61	ELECT	1000MF 20%	25V	C1264	1-124-903-11	ELECT 1MF 20% 50V
C477	1-126-942-61	ELECT	1000MF 20%	25V	C1265	1-136-165-00	FILM 0.1MF 5% 50V
C501	1-102-110-00	CERAMIC	220PF 10%	50V	C1266	1-126-967-11	ELECT 47MF 20% 16V
C502	1-124-902-00	ELECT	0.47MF 20%	50V	C1267	1-136-165-00	FILM 0.1MF 5% 50V
C503	1-163-003-11	CERAMIC CHIP	330PF 10%	50V	C1268	1-124-903-11	ELECT 1MF 20% 50V
C504	1-102-212-00	CERAMIC	820PF 10%	500V	C1269	1-124-903-11	ELECT 1MF 20% 50V
C505	1-102-002-00	CERAMIC	680PF 10%	500V	C1270	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V
C506	1-106-383-00	MYLAR	0.047MF 10%	200V	C1351	1-163-251-11	CERAMIC CHIP 100PF 5% 50V
Δ C507	1-162-116-51	CERAMIC	680PF 10%	2KV	C1352	1-126-933-11	ELECT 100MF 20% 16V
C508	1-102-244-00	CERAMIC	220PF 10%	500V	C1353	1-163-037-11	CERAMIC CHIP 0.022MF 10% 50V
C509	1-162-116-00	CERAMIC	680PF 10%	2KV	C1354	1-216-295-91	CONDUCTOR, CHIP
C510	1-106-367-00	MYLAR	0.01MF 10%	100V	C1401	1-124-902-00	ELECT 0.47MF 20% 50V
Δ C511	1-115-460-11	FILM	0.022MF 3%	1.2KV	C1402	1-126-964-11	ELECT 10MF 20% 50V
Δ C513	1-130-895-51	FILM	0.056MF 5%	400V	C1403	1-124-902-00	ELECT 0.47MF 20% 50V
Δ C514	1-104-844-11	FILM	0.62MF 5%	200V	C1404	1-165-319-11	CERAMIC CHIP 0.1MF 50V
C515	1-106-343-00	MYLAR	0.001MF 10%	100V	C1405	1-165-319-11	CERAMIC CHIP 0.1MF 50V
C516	1-115-461-11	FILM	2MF 5%	200V	C1406	1-165-319-11	CERAMIC CHIP 0.1MF 50V
C517	1-107-649-11	ELECT	2.2MF 20%	250V	C1407	1-165-319-11	CERAMIC CHIP 0.1MF 50V
C518	1-106-395-00	MYLAR	0.15MF 10%	200V	C1408	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V
C519	1-162-815-11	CERAMIC	47PF 5%	500V	C1409	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V
C520	1-164-645-11	CERAMIC	1000PF 10%	500V	C1410	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V
C521	1-164-161-11	CERAMIC CHIP	0.0022MF 10%	50V	C1411	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V
C522	1-124-903-11	ELECT	1MF 20%	50V	C1412	1-124-925-11	ELECT 2.2MF 20% 50V
C525	1-102-244-00	CERAMIC	220PF 10%	500V	C1413	1-124-925-11	ELECT 2.2MF 20% 50V
C526	1-107-662-11	ELECT	22MF 20%	250V	C1414	1-164-489-11	CERAMIC CHIP 0.22MF 10% 16V
C527	1-162-116-00	CERAMIC	680PF 10%	2KV	C1415	1-126-965-11	ELECT 22MF 20% 50V
C528	1-164-161-11	CERAMIC CHIP	0.0022MF 10%	50V	C1416	1-126-933-11	ELECT 100MF 20% 16V
C529	1-128-551-11	ELECT	22MF 20%	25V	C1417	1-126-965-11	ELECT 22MF 20% 50V
C530	1-137-366-11	FILM	0.0022MF 5%	50V	C1420	1-164-005-11	CERAMIC CHIP 0.47MF 25V
C531	1-126-965-11	ELECT	22MF 20%	50V	C1501	1-115-462-11	FILM 0.12MF 5% 200V

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REF. NO.	PART NO.	DESCRIPTION	REMARK
		<FILTER BLOCK>	
CM305	1-467-554-21	FILTER BLOCK, COMB	
		<CONNECTOR>	
CN351	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN461	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN501	* 1-580-798-11	CONNECTOR PIN (DY) 6P	
CN503	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1103	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P	
CN1641	* 1-564-515-11	PLUG, CONNECTOR 12P	
CN3001	1-573-298-11	CONNECTOR, BOARD TO BOARD 20P	
		<DIODE>	
D001	8-719-991-33	DIODE 1SS133T-77	
D002	8-719-109-89	DIODE RD5.6ESB2	
D003	8-719-991-33	DIODE 1SS133T-77	
D004	8-719-110-17	DIODE RD10ESB2	
D005	8-719-991-33	DIODE 1SS133T-77	
D006	1-810-039-31	LED UNIT	
D011	8-719-983-20	DIODE MTZJ-T-77-4.3C	
D013	8-719-991-33	DIODE 1SS133T-77	
D014	8-719-991-33	DIODE 1SS133T-77	
D015	8-719-991-33	DIODE 1SS133T-77	
D353	8-719-991-33	DIODE 1SS133T-77	
D356	8-719-991-33	DIODE 1SS133T-77	
D360	8-719-110-17	DIODE RD10ESB2	
D362	8-719-991-33	DIODE 1SS133T-77	
D368	8-719-991-33	DIODE 1SS133T-77	
D462	8-719-991-33	DIODE 1SS133T-77	
D501	8-719-109-89	DIODE RD5.6ESB2	
D502	8-719-945-80	DIODE ERC06-15S	
D503	8-719-945-80	DIODE ERC06-15S	
D504	8-719-900-26	DIODE ERD29-08J	
D505	8-719-908-03	DIODE GP08D	
D506	8-719-908-03	DIODE GP08D	
D507	8-719-991-33	DIODE 1SS133T-77	
D515	8-719-302-43	DIODE EL1Z	
D516	8-719-991-33	DIODE 1SS133T-77	
D518	8-719-991-33	DIODE 1SS133T-77	
D519	Δ 8-719-302-43	DIODE EL1Z	
D520	8-719-991-33	DIODE 1SS133T-77	
D521	8-719-921-63	DIODE MTZJ-7.5B	
D530	8-719-979-85	DIODE EGP20G	
D531	8-719-979-85	DIODE EGP20G	
D534	8-719-302-43	DIODE EL1Z	
D561	8-719-908-03	DIODE GP08D	
D562	8-719-991-33	DIODE 1SS133T-77	
D1102	8-719-982-24	DIODE MTZJ-33A	
D1103	8-719-109-89	DIODE RD5.6ESB2	
D1237	8-719-110-17	DIODE RD10ESB2	
D1241	8-719-110-17	DIODE RD10ESB2	
D1242	8-719-110-17	DIODE RD10ESB2	
D1244	8-719-110-17	DIODE RD10ESB2	
D1245	8-719-110-17	DIODE RD10ESB2	
D1246	8-719-110-17	DIODE RD10ESB2	
D1247	8-719-110-17	DIODE RD10ESB2	
D1248	8-719-981-99	DIODE MTZJ-3.3	
D1261	8-719-110-17	DIODE RD10ESB2	
D1262	8-719-110-17	DIODE RD10ESB2	
D1263	8-719-110-17	DIODE RD10ESB2	
D1264	8-719-110-17	DIODE RD10ESB2	
		<FERRITE BEAD>	
FB501	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	

REF. NO.	PART NO.	DESCRIPTION	REMARK
FB502	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB503	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
		<IC>	
IC001	8-752-868-44	IC CXP85640-004S	
IC002	8-759-354-28	IC ST24C02FM6TR	
IC003	8-747-905-11	IC SBX1790-51	
IC351	8-752-076-08	IC CXA2025S	
IC461	8-759-980-43	IC TDA2009A	
IC501	8-759-700-07	IC NJM2903M	
IC561	8-759-980-58	IC TDA8172	
IC1001	8-752-058-68	IC CXA1315M	
IC1261	8-759-366-78	IC MM1313AD	
IC1401	8-759-369-39	IC BH3856FS-E2	
IC1402	8-759-100-96	IC uPC4558G2	
		<JACK>	
J1232	1-774-751-11	TERMINAL BLOCK, S	
J1233	1-774-749-11	JACK BLOCK, PIN	
J1234	1-774-750-11	JACK BLOCK, PIN	
		<CHIP CONDUCTOR>	
JR001	1-216-295-91	CONDUCTOR, CHIP	
JR1351	1-216-295-91	CONDUCTOR, CHIP	
JR1352	1-216-295-91	CONDUCTOR, CHIP	
JR4101	1-216-295-91	CONDUCTOR, CHIP	
JR4108	1-216-295-91	CONDUCTOR, CHIP	
JR4110	1-216-295-91	CONDUCTOR, CHIP	
JR4114	1-216-295-91	CONDUCTOR, CHIP	
JR4116	1-216-295-91	CONDUCTOR, CHIP	
JR4121	1-216-295-91	CONDUCTOR, CHIP	
		<COIL>	
L001	1-408-421-00	INDUCTOR 100UH	
L002	1-408-421-00	INDUCTOR 100UH	
L003	1-410-470-11	INDUCTOR 10UH	
L004	1-410-470-11	INDUCTOR 10UH	
L352	1-412-537-31	INDUCTOR 100UH	
L461	1-410-470-11	INDUCTOR 10UH	
L501	Δ 1-409-861-11	COIL, HORIZONTAL LINEARITY	
L502	1-412-552-11	INDUCTOR 2.2mH	
L503	1-406-677-11	COIL, CHOKE 10mH	
L511	1-406-607-11	COIL, CHOKE 15mH	
L517	1-412-552-11	INDUCTOR 2.2mH	
L1101	1-408-421-00	INDUCTOR 100UH	
L1102	1-410-470-11	INDUCTOR 10UH	
L1401	1-408-421-00	INDUCTOR 100UH	
		<IC LINK>	
PS461	Δ 1-532-984-91	LINK, IC (2A/90V)	
		<TRANSISTOR>	
Q001	8-729-216-22	TRANSISTOR 2SA1162-G	
Q002	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q003	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q004	8-729-216-22	TRANSISTOR 2SA1162-G	
Q010	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q011	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q012	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q013	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q014	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q015	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q016	8-729-422-27	TRANSISTOR 2SD601A-Q	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q017	8-729-216-22	TRANSISTOR 2SA1162-G		R057	1-249-417-11	CARBON 1K	5% 1/4W
Q301	8-729-216-22	TRANSISTOR 2SA1162-G		R058	1-216-033-00	METAL GLAZE 220	5% 1/10W
Q302	8-729-216-22	TRANSISTOR 2SA1162-G		R059	1-216-047-91	METAL GLAZE 820	5% 1/10W
Q303	8-729-216-22	TRANSISTOR 2SA1162-G		R060	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q354	8-729-422-27	TRANSISTOR 2SD601A-Q		R061	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
Q356	8-729-216-22	TRANSISTOR 2SA1162-G		R062	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
Q358	8-729-422-27	TRANSISTOR 2SD601A-Q		R063	1-216-073-00	METAL GLAZE 10K	5% 1/10W
Q461	8-729-422-27	TRANSISTOR 2SD601A-Q		R064	1-247-815-91	CARBON 220	5% 1/4W
Q462	8-729-216-22	TRANSISTOR 2SA1162-G		R065	1-247-815-91	CARBON 220	5% 1/4W
Q501	8-729-140-96	TRANSISTOR 2SD774-34		R066	1-247-815-91	CARBON 220	5% 1/4W
Q502	8-729-016-32	TRANSISTOR 2SC4927-01		R067	1-249-413-11	CARBON 470	5% 1/4W
Q503	8-729-422-27	TRANSISTOR 2SD601A-Q		R068	1-247-815-91	CARBON 220	5% 1/4W
Q511	8-729-422-27	TRANSISTOR 2SD601A-Q		R069	1-247-815-91	CARBON 220	5% 1/4W
Q512	8-729-809-29	TRANSISTOR 2SC4159-E		R070	1-247-815-91	CARBON 220	5% 1/4W
Q561	8-729-422-27	TRANSISTOR 2SD601A-Q		R071	1-247-815-91	CARBON 220	5% 1/4W
Q562	8-729-422-27	TRANSISTOR 2SD601A-Q		R072	1-216-033-00	METAL GLAZE 220	5% 1/10W
Q563	8-729-105-08	TRANSISTOR 2SA1330-O6		R073	1-216-033-00	METAL GLAZE 220	5% 1/10W
Q1102	8-729-119-78	TRANSISTOR 2SC2785-HFE		R074	1-216-033-00	METAL GLAZE 220	5% 1/10W
Q1103	8-729-422-27	TRANSISTOR 2SD601A-Q		R075	1-216-033-00	METAL GLAZE 220	5% 1/10W
Q1231	8-729-422-27	TRANSISTOR 2SD601A-Q		R076	1-216-033-00	METAL GLAZE 220	5% 1/10W
Q1232	8-729-422-27	TRANSISTOR 2SD601A-Q		R077	1-216-033-00	METAL GLAZE 220	5% 1/10W
Q1261	8-729-216-22	TRANSISTOR 2SA1162-G		R078	1-249-417-11	CARBON 1K	5% 1/4W
Q1262	8-729-216-22	TRANSISTOR 2SA1162-G		R079	1-216-033-00	METAL GLAZE 220	5% 1/10W
Q1263	8-729-422-27	TRANSISTOR 2SD601A-Q		R080	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
		<RESISTOR>		R081	1-216-025-91	METAL GLAZE 100	5% 1/10W
R001	1-216-045-00	METAL GLAZE 680	5% 1/10W	R082	1-216-025-91	METAL GLAZE 100	5% 1/10W
R002	1-247-815-91	CARBON 220	5% 1/4W	R083	1-249-429-11	CARBON 10K	5% 1/4W
R003	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R084	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R004	1-216-121-91	METAL GLAZE 1M	5% 1/10W	R087	1-247-815-91	CARBON 220	5% 1/4W
R005	1-247-815-91	CARBON 220	5% 1/4W	R092	1-249-429-11	CARBON 10K	5% 1/4W
R007	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R097	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R009	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R099	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R010	1-216-037-00	METAL GLAZE 330	5% 1/10W	R131	1-216-035-00	METAL GLAZE 270	5% 1/10W
R011	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R132	1-216-115-00	METAL GLAZE 560K	5% 1/10W
R012	1-216-033-00	METAL GLAZE 220	5% 1/10W	R133	1-216-039-00	METAL GLAZE 390	5% 1/10W
R013	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R135	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R014	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R136	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R015	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R137	1-216-047-91	METAL GLAZE 820	5% 1/10W
R016	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R311	1-216-295-91	CONDUCTOR, CHIP	
R019	1-249-425-11	CARBON 4.7K	5% 1/4W	R312	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R020	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R313	1-216-295-91	CONDUCTOR, CHIP	
R023	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R314	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R024	1-216-085-00	METAL GLAZE 33K	5% 1/10W	R353	1-208-786-11	METAL GLAZE 1.5K	0.50% 1/10W
R025	1-216-121-91	METAL GLAZE 1M	5% 1/10W	R354	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R026	1-216-019-00	METAL GLAZE 56	5% 1/10W	R355	1-216-033-00	METAL GLAZE 220	5% 1/10W
R027	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R356	1-216-033-00	METAL GLAZE 220	5% 1/10W
R028	1-249-417-11	CARBON 1K	5% 1/4W	R358	1-247-815-91	CARBON 220	5% 1/4W
R029	1-216-025-91	METAL GLAZE 100	5% 1/10W	R359	1-247-815-91	CARBON 220	5% 1/4W
R030	1-249-425-11	CARBON 4.7K	5% 1/4W	R360	1-247-815-91	CARBON 220	5% 1/4W
R032	1-247-815-91	CARBON 220	5% 1/4W	R361	1-216-025-91	METAL GLAZE 100	5% 1/10W
R034	1-247-815-91	CARBON 220	5% 1/4W	R362	1-216-025-91	METAL GLAZE 100	5% 1/10W
R035	1-247-815-91	CARBON 220	5% 1/4W	R363	1-216-025-91	METAL GLAZE 100	5% 1/10W
R036	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R364	1-216-101-00	METAL GLAZE 150K	5% 1/10W
R037	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R365	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R038	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R366	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R039	1-247-807-31	CARBON 100	5% 1/4W	R367	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R044	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R368	1-249-441-11	CARBON 100K	5% 1/4W
R046	1-247-815-91	CARBON 220	5% 1/4W	R369	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R047	1-249-417-11	CARBON 1K	5% 1/4W	R372	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R048	1-249-417-11	CARBON 1K	5% 1/4W	R373	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R049	1-249-417-11	CARBON 1K	5% 1/4W	R374	1-216-125-00	METAL GLAZE 1.5M	5% 1/10W
R051	1-247-815-91	CARBON 220	5% 1/4W	R375	1-216-025-91	METAL GLAZE 100	5% 1/10W
R052	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	R376	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R053	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	R379	1-216-033-00	METAL GLAZE 220	5% 1/10W
R054	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	R380	1-247-815-91	CARBON 220	5% 1/4W
R055	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R381	1-247-815-91	CARBON 220	5% 1/4W
R056	1-216-033-00	METAL GLAZE 220	5% 1/10W	R382	1-216-033-00	METAL GLAZE 220	5% 1/10W
				R383	1-216-049-91	METAL GLAZE 1K	5% 1/10W

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

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

• 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
R384	1-216-109-00	METAL GLAZE 330K	5% 1/10W
R385	1-249-422-11	CARBON 2.7K	5% 1/4W
R386	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R387	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R388	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R389	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R390	1-216-035-00	METAL GLAZE 270	5% 1/10W
R391	1-208-810-11	METAL GLAZE 15K	0.50% 1/10W
R392	1-216-025-91	METAL GLAZE 100	5% 1/10W
R393	1-216-043-91	METAL GLAZE 560	5% 1/10W
R394	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R395	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R397	1-249-425-11	CARBON 4.7K	5% 1/4W
R461	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R462	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R463	1-249-435-11	CARBON 33K	5% 1/4W
R464	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R465	1-249-413-11	CARBON 470	5% 1/4W
R466	1-126-933-11	ELECT 100MF	20% 16V
R467	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W
R469	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R471	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W
R472	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R473	1-249-398-11	CARBON 27	5% 1/4W
R475	1-249-430-11	CARBON 12K	5% 1/4W
R476	1-249-430-11	CARBON 12K	5% 1/4W
R477	1-249-398-11	CARBON 27	5% 1/4W
R478	1-249-418-11	CARBON 1.2K	5% 1/4W F
R479	1-249-418-11	CARBON 1.2K	5% 1/4W F
R480	1-249-385-11	CARBON 2.2	5% 1/4W F
R481	1-249-385-11	CARBON 2.2	5% 1/4W F
R482	1-249-421-11	CARBON 2.2K	5% 1/4W
R483	1-249-421-11	CARBON 2.2K	5% 1/4W
R501	1-216-037-00	METAL GLAZE 330	5% 1/10W
R502	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R503	1-249-426-11	CARBON 5.6K	5% 1/4W F
R504	1-215-918-00	METAL OXIDE 1.5K	5% 3W F
R505	1-249-431-11	CARBON 15K	5% 1/4W
R506	1-215-861-00	METAL OXIDE 47	5% 1W F
R507	1-249-401-11	CARBON 47	5% 1/4W
R508	1-249-427-11	CARBON 6.8K	5% 1/4W
R509	1-247-750-11	CARBON 680	5% 1/2W F
R510	1-215-860-11	METAL OXIDE 33	5% 1W F
R511	1-215-885-00	METAL OXIDE 68	5% 2W F
R512	1-215-886-11	METAL OXIDE 100	5% 2W F
R513	1-216-341-11	METAL OXIDE 0.22	5% 1W F
R515	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R516	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R517	1-249-415-11	CARBON 680	5% 1/4W
R518	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R519	1-249-411-11	CARBON 330	5% 1/4W
R521	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R523	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R524	1-249-429-11	CARBON 10K	5% 1/4W
R525	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R528	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R529	1-208-814-11	METAL GLAZE 22K	0.50% 1/10W
R530	Δ 1-249-377-11	METAL GLAZE	1/10W
R531	Δ 1-249-377-11	METAL GLAZE	1/10W
R532	1-208-760-11	METAL GLAZE 120	0.50% 1/10W
R533	1-215-902-11	METAL OXIDE 47K	5% 1W F
R535	1-216-101-00	METAL GLAZE 150K	5% 1/10W
R536	Δ 1-249-377-11	CARBON 0.47	5% 1/4W F
R537	Δ 1-249-377-11	CARBON 0.47	5% 1/4W F
R538	1-247-887-00	CARBON 220K	5% 1/4W
R546	1-215-453-00	METAL 22K	1% 1/4W
R547	1-215-457-00	METAL 33K	1% 1/4W
R549	1-215-437-00	METAL 4.7K	1% 1/4W
R550	Δ 1-249-377-11	CARBON 0.47	5% 1/4W F

REF. NO.	PART NO.	DESCRIPTION	REMARK
R551	1-215-873-00	METAL OXIDE 4.7K	5% 1W F
R553	Δ 1-249-377-11	CARBON 0.47	5% 1/4W F
R561	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R563	1-216-351-00	METAL OXIDE 1.5	5% 1W F
R564	1-249-393-11	CARBON 10	5% 1/4W
R565	1-215-890-11	METAL OXIDE 470	5% 2W F
R566	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R567	Δ 1-249-385-11	CARBON 2.2	5% 1/4W F
R568	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R569	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R570	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R571	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R572	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R573	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R574	1-216-365-00	METAL OXIDE 0.47	5% 2W F
R575	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R576	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R577	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R578	1-208-784-11	METAL GLAZE 1.2K	0.50% 1/10W
R579	1-208-842-11	METAL GLAZE 330K	0.50% 1/10W
R580	1-249-441-11	CARBON 100K	5% 1/4W
R1001	1-247-807-31	CARBON 100	5% 1/4W
R1002	1-247-807-31	CARBON 100	5% 1/4W
R1005	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1009	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1010	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1101	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1102	1-215-900-11	METAL OXIDE 22K	5% 2W F
R1103	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W
R1104	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R1105	1-216-689-11	METAL GLAZE 39K	5% 1/10W
R1106	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1107	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1108	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1109	1-216-019-00	METAL GLAZE 56	5% 1/10W
R1110	1-216-019-00	METAL GLAZE 56	5% 1/10W
R1111	1-216-019-00	METAL GLAZE 56	5% 1/10W
R1115	1-216-045-00	METAL GLAZE 680	5% 1/10W
R1117	1-249-425-11	CARBON 4.7K	5% 1/4W
R1118	1-249-425-11	CARBON 4.7K	5% 1/4W
R1120	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1121	1-216-035-00	METAL GLAZE 270	5% 1/10W
R1122	1-216-115-00	METAL GLAZE 560K	5% 1/10W
R1123	1-216-039-00	METAL GLAZE 390	5% 1/10W
R1125	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1126	1-216-035-00	METAL GLAZE 270	5% 1/10W
R1127	1-216-115-00	METAL GLAZE 560K	5% 1/10W
R1128	1-216-039-00	METAL GLAZE 390	5% 1/10W
R1130	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1234	1-249-441-11	CARBON 100K	5% 1/4W
R1240	1-216-022-00	METAL GLAZE 75	5% 1/10W
R1241	1-216-022-00	METAL GLAZE 75	5% 1/10W
R1242	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1243	1-249-441-11	CARBON 100K	5% 1/4W
R1244	1-216-022-00	METAL GLAZE 75	5% 1/10W
R1245	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1246	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1247	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1248	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1249	1-216-022-00	METAL GLAZE 75	5% 1/10W
R1250	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1251	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1252	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1253	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1254	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1255	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1256	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1257	1-216-049-91	METAL GLAZE 1K	5% 1/10W



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REF. NO.	PART NO.	DESCRIPTION	REMARK
R1258	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R1259	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1260	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R1261	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1262	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1263	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1264	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1265	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1266	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1267	1-216-295-91	CONDUCTOR, CHIP	
R1268	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1270	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1273	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1274	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1277	1-247-815-91	CARBON 220	5% 1/4W
R1278	1-247-815-91	CARBON 220	5% 1/4W
R1280	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1282	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1283	1-247-791-91	CARBON 22	5% 1/4W
R1284	1-247-807-31	CARBON 100	5% 1/4W
R1286	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1287	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1288	1-247-807-31	CARBON 100	5% 1/4W
R1290	1-216-043-91	METAL GLAZE 560	5% 1/10W
R1291	1-216-045-00	METAL GLAZE 680	5% 1/10W
R1292	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1293	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1294	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1295	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1297	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1351	1-247-815-91	CARBON 220	5% 1/4W
R1352	1-247-815-91	CARBON 220	5% 1/4W
R1353	1-247-815-91	CARBON 220	5% 1/4W
R1354	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1355	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1356	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1357	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1358	1-247-807-31	CARBON 100	5% 1/4W
R1359	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1360	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1361	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R1362	1-216-295-91	CONDUCTOR, CHIP	
R1402	1-249-429-11	CARBON 10K	5% 1/4W
R1404	1-249-429-11	CARBON 10K	5% 1/4W
R1407	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1411	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1412	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1413	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1414	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1415	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1418	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1419	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1420	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1421	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1424	1-247-807-31	CARBON 100	5% 1/4W
R1425	1-247-807-31	CARBON 100	5% 1/4W
<SWITCH>			
S001	1-692-431-21	SWITCH, TACTILE	
S002	1-692-431-21	SWITCH, TACTILE	
S003	1-692-431-21	SWITCH, TACTILE	
S004	1-692-431-21	SWITCH, TACTILE	
S005	1-692-431-21	SWITCH, TACTILE	
S006	1-692-431-21	SWITCH, TACTILE	
S007	Δ 1-692-431-21	SWITCH, TACTILE	
S501	1-572-707-11	SWITCH, LEVER	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSFORMER>			
T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
T502	Δ 1-424-545-22	TRANSFORMER, FERRITE (PMT)	
T503	Δ 1-433-207-11	TRANSFORMER ASSY, FRYBACK	NX-2609//X4C
<TUNER>			
TU102	Δ 8-598-341-00	TUNER BTF-WA405	
<CRYSTAL>			
X001	1-578-774-11	VIBRATOR, CRYSTAL	
X353	1-567-505-11	OSCILLATOR, CRYSTAL	
X354	1-577-611-11	OSCILALTOR, CERAMIC	

* A-1297-752-A A BOARD, COMPLETE ***** (KV-32S20(U)/32S20(CND)/34RS20(C))			
* 4-051-927-01 CASE, SHIELD 4-382-854-11 SCREW (M3X10), P, SW (+)			
<CAPACITOR>			
C001	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C003	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V
C005	1-124-903-11	ELECT 1MF	20% 50V
C009	1-126-967-11	ELECT 47MF	20% 50V
C010	1-163-033-91	CERAMIC CHIP 0.022MF	50V
C011	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C012	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C013	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C023	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C028	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C029	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C035	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C036	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C051	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C053	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C061	1-163-033-91	CERAMIC CHIP 0.022MF	50V
C062	1-163-033-91	CERAMIC CHIP 0.022MF	50V
C063	1-126-935-11	ELECT 470MF	20% 16V
C068	1-164-096-11	CERAMIC 0.01MF	50V
C071	1-164-096-11	CERAMIC 0.01MF	50V
C072	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C353	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C354	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C355	1-124-902-00	ELECT 0.47MF	20% 50V
C356	1-126-963-11	ELECT 4.7MF	20% 50V
C357	1-124-902-00	ELECT 0.47MF	20% 50V
C358	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C359	1-126-933-11	ELECT 100MF	20% 16V
C363	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C364	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C365	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C366	1-137-399-11	FILM 0.1MF	5% 50V
C367	1-137-399-11	FILM 0.1MF	5% 50V
C368	1-137-399-11	FILM 0.1MF	5% 50V
C369	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C370	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C371	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C372	1-124-902-00	ELECT 0.47MF	20% 50V
C373	1-124-903-11	ELECT 1MF	20% 50V
C375	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C376	1-126-964-11	ELECT 10MF	20% 50V

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REF. NO.	PART NO.	DESCRIPTION	REMARK
C377	1-137-399-11	FILM 0.1MF 5%	50V
C378	1-136-244-11	FILM 0.1MF 5%	50V
C379	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C380	1-126-935-11	ELECT 470MF 20%	16V
C383	1-137-399-11	FILM 0.1MF 5%	50V
C385	1-164-182-11	CERAMIC CHIP 0.0033MF 10%	50V
C386	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C387	1-124-925-11	ELECT 2.2MF 20%	50V
C388	1-124-902-00	ELECT 0.47MF 20%	50V
C390	1-124-903-11	ELECT 1MF 20%	50V
C391	1-163-017-00	CERAMIC CHIP 0.0047MF 10%	50V
C392	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C462	1-124-925-11	ELECT 2.2MF 20%	50V
C463	1-124-925-11	ELECT 2.2MF 20%	50V
C466	1-104-666-11	ELECT 220MF 20%	25V
C468	1-104-664-11	ELECT 47MF 20%	25V
C470	1-124-925-11	ELECT 2.2MF 20%	50V
C471	1-104-666-11	ELECT 220MF 20%	25V
C472	1-136-173-00	FILM 0.47MF 5%	50V
C473	1-136-169-00	FILM 0.22MF 5%	50V
C474	1-126-942-61	ELECT 1000MF 20%	25V
C475	1-136-169-00	FILM 0.22MF 5%	50V
C476	1-126-942-61	ELECT 1000MF 20%	25V
C477	1-126-942-61	ELECT 1000MF 20%	25V
C501	1-102-110-00	CERAMIC 220PF 10%	50V
C502	1-124-902-00	ELECT 0.47MF 20%	50V
C503	1-163-003-11	CERAMIC CHIP 330PF 10%	50V
C504	1-102-212-00	CERAMIC 820PF 10%	500V
C505	1-102-002-00	CERAMIC 680PF 10%	500V
C506	1-106-383-00	MYLAR 0.047MF 10%	200V
C507	Δ 1-162-116-51	CERAMIC 680PF 10%	2KV
C508	1-102-244-00	CERAMIC 220PF 10%	500V
C509	1-162-116-00	CERAMIC 680PF 10%	2KV
C510	1-106-367-00	MYLAR 0.01MF 10%	100V
C511	Δ 1-115-460-11	FILM 0.022MF 3%	1.2KV
C513	Δ 1-130-895-51	FILM 0.056MF 5%	400V
C514	Δ 1-104-844-11	FILM 0.62MF 5%	200V
C515	1-106-343-00	MYLAR 0.001MF 10%	100V
C516	1-115-461-11	FILM 2MF 5%	200V
C517	1-107-649-11	ELECT 2.2MF 20%	250V
C518	1-106-395-00	MYLAR 0.15MF 10%	200V
C519	1-162-815-11	CERAMIC 47PF 5%	500V
C520	1-164-645-11	CERAMIC 1000PF 10%	500V
C521	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
C522	1-124-903-11	ELECT 1MF 20%	50V
C525	1-102-244-00	CERAMIC 220PF 10%	500V
C526	1-107-662-11	ELECT 22MF 20%	250V
C527	1-162-116-00	CERAMIC 680PF 10%	2KV
C528	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
C529	1-128-551-11	ELECT 22MF 20%	25V
C530	1-137-366-11	FILM 0.0022MF 5%	50V
C531	1-126-965-11	ELECT 22MF 20%	50V
C532	1-126-965-11	ELECT 22MF 20%	50V
C537	1-126-941-11	ELECT 470MF 20%	25V
C539	1-126-935-11	ELECT 470MF 20%	16V
C540	1-123-024-21	ELECT 33MF 10%	160V
C541	1-128-560-11	ELECT 22MF 20%	100V
C545	1-106-387-00	MYLAR 0.068MF 10%	200V
C561	1-126-967-11	ELECT 47MF 20%	50V
C563	1-126-923-11	ELECT 220MF 20%	10V
C564	1-124-903-11	ELECT 1MF 20%	50V
C565	1-126-969-11	ELECT 220MF 20%	50V
C566	1-126-964-11	ELECT 10MF 20%	50V
C568	1-137-399-11	FILM 0.1MF 5%	50V
C571	1-104-664-11	ELECT 47MF 20%	25V
C1002	1-126-964-11	ELECT 10MF 20%	50V
C1101	1-126-768-11	ELECT 2200MF 20%	16V
C1103	1-126-965-11	ELECT 22MF 20%	50V
C1104	1-126-967-11	ELECT 47MF 20%	16V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C1105	1-126-967-11	ELECT 47MF 20%	16V
C1106	1-126-964-11	ELECT 10MF 20%	50V
C1107	1-163-037-11	CERAMIC CHIP 0.022MF 10%	50V
C1108	1-124-903-11	ELECT 1MF 20%	50V
C1109	1-126-964-11	ELECT 10MF 20%	50V
C1110	1-163-227-11	CERAMIC CHIP 10PF 0.5PF	50V
C1111	1-163-227-11	CERAMIC CHIP 10PF 0.5PF	50V
C1112	1-163-227-11	CERAMIC CHIP 10PF 0.5PF	50V
C1238	1-136-165-00	FILM 0.1MF 5%	50V
C1239	1-124-903-11	ELECT 1MF 20%	50V
C1240	1-124-903-11	ELECT 1MF 20%	50V
C1244	1-124-902-00	ELECT 0.47MF 20%	50V
C1245	1-124-902-00	ELECT 0.47MF 20%	50V
C1261	1-126-967-11	ELECT 47MF 20%	16V
C1262	1-126-967-11	ELECT 47MF 20%	16V
C1263	1-124-903-11	ELECT 1MF 20%	50V
C1264	1-124-903-11	ELECT 1MF 20%	50V
C1265	1-136-165-00	FILM 0.1MF 5%	50V
C1266	1-126-967-11	ELECT 47MF 20%	16V
C1267	1-136-165-00	FILM 0.1MF 5%	50V
C1268	1-124-903-11	ELECT 1MF 20%	50V
C1269	1-124-903-11	ELECT 1MF 20%	50V
C1270	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1351	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C1352	1-126-933-11	ELECT 100MF 20%	16V
C1353	1-163-037-11	CERAMIC CHIP 0.022MF 10%	50V
C1354	1-216-295-91	CONDUCTOR, CHIP	
C1401	1-124-902-00	ELECT 0.47MF 20%	50V
C1402	1-126-964-11	ELECT 10MF 20%	50V
C1403	1-124-902-00	ELECT 0.47MF 20%	50V
C1404	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C1405	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C1406	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C1407	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C1408	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
C1409	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
C1410	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
C1411	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
C1412	1-124-925-11	ELECT 2.2MF 20%	50V
C1413	1-124-925-11	ELECT 2.2MF 20%	50V
C1414	1-164-489-11	CERAMIC CHIP 0.22MF 10%	16V
C1415	1-126-965-11	ELECT 22MF 20%	50V
C1416	1-126-933-11	ELECT 100MF 20%	16V
C1417	1-126-965-11	ELECT 22MF 20%	50V
C1420	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1501	1-115-462-11	FILM 0.12MF 5%	200V
<FILTER BLOCK>			
CM305	1-467-554-21	FILTER BLOCK, COMB	
<CONNECTOR>			
CN351	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN461	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN501	* 1-580-798-11	CONNECTOR PIN (DY) 6P	
CN503	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1103	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P	
CN1641	* 1-564-515-11	PLUG, CONNECTOR 12P	
<DIODE>			
D001	8-719-991-33	DIODE 1SS133T-77	
D002	8-719-109-89	DIODE RD5.6ESB2	
D003	8-719-991-33	DIODE 1SS133T-77	
D004	8-719-110-17	DIODE RD10ESB2	
D005	8-719-991-33	DIODE 1SS133T-77	



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REF. NO.	PART NO.	DESCRIPTION	REMARK
D006	1-810-039-31	LED UNIT	
D011	8-719-983-20	DIODE MTZJ-T-77-4.3C	
D013	8-719-991-33	DIODE 1SS133T-77	
D014	8-719-991-33	DIODE 1SS133T-77	
D015	8-719-991-33	DIODE 1SS133T-77	
D353	8-719-991-33	DIODE 1SS133T-77	
D356	8-719-991-33	DIODE 1SS133T-77	
D360	8-719-110-17	DIODE RD10ESB2	
D362	8-719-991-33	DIODE 1SS133T-77	
D462	8-719-991-33	DIODE 1SS133T-77	
D501	8-719-109-89	DIODE RD5.6ESB2	
D502	8-719-945-80	DIODE ERC06-15S	
D503	8-719-945-80	DIODE ERC06-15S	
D504	8-719-900-26	DIODE ERD29-08J	
D505	8-719-908-03	DIODE GP08D	
D506	8-719-908-03	DIODE GP08D	
D507	8-719-991-33	DIODE 1SS133T-77	
D515	8-719-302-43	DIODE EL1Z	
D516	8-719-991-33	DIODE 1SS133T-77	
D518	8-719-991-33	DIODE 1SS133T-77	
D519	Δ 8-719-302-43	DIODE EL1Z	
D520	8-719-991-33	DIODE 1SS133T-77	
D521	8-719-921-63	DIODE MTZJ-7.5B	
D530	8-719-979-85	DIODE EGP20G	
D531	8-719-979-85	DIODE EGP20G	
D534	8-719-302-43	DIODE EL1Z	
D561	8-719-908-03	DIODE GP08D	
D562	8-719-991-33	DIODE 1SS133T-77	
D1102	8-719-982-24	DIODE MTZJ-33A	
D1103	8-719-109-89	DIODE RD5.6ESB2	
D1241	8-719-110-17	DIODE RD10ESB2	
D1241	8-719-110-17	DIODE RD10ESB2	
D1242	8-719-110-17	DIODE RD10ESB2	
D1246	8-719-110-17	DIODE RD10ESB2	
D1247	8-719-110-17	DIODE RD10ESB2	
D1248	8-719-981-99	DIODE MTZJ-3.3	
D1261	8-719-110-17	DIODE RD10ESB2	
D1262	8-719-110-17	DIODE RD10ESB2	
D1263	8-719-110-17	DIODE RD10ESB2	
D1264	8-719-110-17	DIODE RD10ESB2	
		<FERRITE BEAD>	
FB501	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB502	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB503	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
		<IC>	
IC001	8-752-868-44	IC CXP85640-004S	
IC002	8-759-354-28	IC ST24C02FM6TR	
IC003	8-747-905-11	IC SBX1790-51	
IC351	8-752-076-08	IC CXA2025S	
IC461	8-759-980-43	IC TDA2009A	
IC501	8-759-700-07	IC NJM2903M	
IC561	8-759-980-58	IC TDA8172	
IC1261	8-759-366-77	IC MM1311AD	
IC1401	8-759-369-39	IC BH3856FS-E2	
IC1402	8-759-100-96	IC uPC4558G2	
		<JACK>	
J1232	1-774-749-11	JACK BLOCK, PIN	
J1234	1-774-750-11	JACK BLOCK, PIN	
		<CHIP CONDUCTOR>	
JR001	1-216-295-91	CONDUCTOR, CHIP	
JR351	1-216-295-91	CONDUCTOR, CHIP	
JR352	1-216-295-91	CONDUCTOR, CHIP	

REF. NO.	PART NO.	DESCRIPTION	REMARK
JR1264	1-216-295-91	CONDUCTOR, CHIP	
JR1351	1-216-295-91	CONDUCTOR, CHIP	
JR1352	1-216-295-91	CONDUCTOR, CHIP	
JR4101	1-216-295-91	CONDUCTOR, CHIP	
JR4108	1-216-295-91	CONDUCTOR, CHIP	
JR4110	1-216-295-91	CONDUCTOR, CHIP	
JR4114	1-216-295-91	CONDUCTOR, CHIP	
JR4116	1-216-295-91	CONDUCTOR, CHIP	
JR4121	1-216-295-91	CONDUCTOR, CHIP	
		<COIL>	
L001	1-408-421-00	INDUCTOR 100UH	
L002	1-408-421-00	INDUCTOR 100UH	
L003	1-410-470-11	INDUCTOR 10UH	
L004	1-410-470-11	INDUCTOR 10UH	
L352	1-412-537-31	INDUCTOR 100UH	
L461	1-410-470-11	INDUCTOR 10UH	
L501	Δ 1-409-861-11	COIL HORIZONTAL LINEARITY	
L502	1-412-552-11	INDUCTOR 2.2mH	
L503	1-406-677-11	COIL, CHOKE 10mH	
L511	1-406-607-11	COIL, CHOKE 15mH	
L517	1-412-552-11	INDUCTOR 2.2mH	
L1101	1-408-421-00	INDUCTOR 100UH	
L1102	1-410-470-11	INDUCTOR 10UH	
L1401	1-408-421-00	INDUCTOR 100UH	
		<IC LINK>	
PS461	Δ 1-532-984-91	LINK, IC (2A/90V)	
		<TRANSISTOR>	
Q001	8-729-216-22	TRANSISTOR 2SA1162-G	
Q002	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q003	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q004	8-729-216-22	TRANSISTOR 2SA1162-G	
Q010	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q011	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q012	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q013	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q014	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q015	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q016	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q017	8-729-216-22	TRANSISTOR 2SA1162-G	
Q301	8-729-216-22	TRANSISTOR 2SA1162-G	
Q302	8-729-216-22	TRANSISTOR 2SA1162-G	
Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q354	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q356	8-729-216-22	TRANSISTOR 2SA1162-G	
Q358	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q461	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q462	8-729-216-22	TRANSISTOR 2SA1162-G	
Q501	8-729-140-96	TRANSISTOR 2SD774-34	
Q502	8-729-016-32	TRANSISTOR 2SC4927-01	
Q503	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q511	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q512	8-729-809-29	TRANSISTOR 2SC4159-E	
Q561	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q562	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q563	8-729-105-08	TRANSISTOR 2SA1330-O6	
Q1102	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1103	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1231	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1232	8-729-422-27	TRANSISTOR 2SD601A-Q	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q1261	8-729-216-22	TRANSISTOR 2SA1162-G		R079	1-216-033-00	METAL GLAZE 220	5% 1/10W
Q1262	8-729-216-22	TRANSISTOR 2SA1162-G		R080	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
Q1263	8-729-422-27	TRANSISTOR 2SD601A-Q					
<RESISTOR>							
R001	1-216-045-00	METAL GLAZE 680	5% 1/10W	R081	1-216-025-91	METAL GLAZE 100	5% 1/10W
R002	1-247-815-91	CARBON 220	5% 1/4W	R082	1-216-025-91	METAL GLAZE 100	5% 1/10W
R003	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R083	1-249-429-11	CARBON 10K	5% 1/4W
R004	1-216-121-91	METAL GLAZE 1M	5% 1/10W	R084	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R005	1-247-815-91	CARBON 220	5% 1/4W	R087	1-247-815-91	CARBON 220	5% 1/4W
R007	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R092	1-249-429-11	CARBON 10K	5% 1/4W
R009	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R097	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R010	1-216-037-00	METAL GLAZE 330	5% 1/10W	R099	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R011	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R131	1-216-035-00	METAL GLAZE 270	5% 1/10W
R012	1-216-033-00	METAL GLAZE 220	5% 1/10W	R132	1-216-115-00	METAL GLAZE 560K	5% 1/10W
R013	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R133	1-216-039-00	METAL GLAZE 390	5% 1/10W
R014	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R135	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R015	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R136	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R016	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R137	1-216-047-91	METAL GLAZE 820	5% 1/10W
R019	1-249-425-11	CARBON 4.7K	5% 1/4W	R311	1-216-295-91	CONDUCTOR, CHIP	
R020	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R312	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R023	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R313	1-216-295-91	CONDUCTOR, CHIP	
R024	1-216-085-00	METAL GLAZE 33K	5% 1/10W	R314	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R025	1-216-121-91	METAL GLAZE 1M	5% 1/10W	R353	1-208-786-11	METAL GLAZE 1.5K	0.50% 1/10W
R026	1-216-019-00	METAL GLAZE 56	5% 1/10W	R354	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R028	1-249-417-11	CARBON 1K	5% 1/4W	R355	1-216-033-00	METAL GLAZE 220	5% 1/10W
R029	1-216-025-91	METAL GLAZE 100	5% 1/10W	R356	1-216-033-00	METAL GLAZE 220	5% 1/10W
R030	1-249-425-11	CARBON 4.7K	5% 1/4W	R361	1-216-025-91	METAL GLAZE 100	5% 1/10W
R032	1-247-815-91	CARBON 220	5% 1/4W	R362	1-216-025-91	METAL GLAZE 100	5% 1/10W
R034	1-247-815-91	CARBON 220	5% 1/4W	R363	1-216-025-91	METAL GLAZE 100	5% 1/10W
R035	1-247-815-91	CARBON 220	5% 1/4W	R364	1-216-101-00	METAL GLAZE 150K	5% 1/10W
R036	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R365	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R037	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R366	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R038	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R367	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R039	1-247-807-31	CARBON 100	5% 1/4W	R368	1-249-441-11	CARBON 100K	5% 1/4W
R044	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R369	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R046	1-247-815-91	CARBON 220	5% 1/4W	R372	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R047	1-249-417-11	CARBON 1K	5% 1/4W	R373	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R048	1-249-417-11	CARBON 1K	5% 1/4W	R374	1-216-125-00	METAL GLAZE 1.5M	5% 1/10W
R049	1-249-417-11	CARBON 1K	5% 1/4W	R375	1-216-025-91	METAL GLAZE 100	5% 1/10W
R051	1-247-815-91	CARBON 220	5% 1/4W	R376	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R052	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	R379	1-216-033-00	METAL GLAZE 220	5% 1/10W
R053	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	R380	1-247-815-91	CARBON 220	5% 1/4W
R054	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	R381	1-247-815-91	CARBON 220	5% 1/4W
R055	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R382	1-216-033-00	METAL GLAZE 220	5% 1/10W
R056	1-216-033-00	METAL GLAZE 220	5% 1/10W	R383	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R057	1-249-417-11	CARBON 1K	5% 1/4W	R384	1-216-109-00	METAL GLAZE 330K	5% 1/10W
R058	1-216-033-00	METAL GLAZE 220	5% 1/10W	R385	1-249-422-11	CARBON 2.7K	5% 1/4W
R059	1-216-047-91	METAL GLAZE 820	5% 1/10W	R387	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R060	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R388	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R061	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W	R389	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R062	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R390	1-216-035-00	METAL GLAZE 270	5% 1/10W
R063	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R391	1-208-810-11	METAL GLAZE 15K	0.50% 1/10W
R064	1-247-815-91	CARBON 220	5% 1/4W	R392	1-216-025-91	METAL GLAZE 100	5% 1/10W
R065	1-247-815-91	CARBON 220	5% 1/4W	R393	1-216-043-91	METAL GLAZE 560	5% 1/10W
R066	1-247-815-91	CARBON 220	5% 1/4W	R394	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R067	1-249-413-11	CARBON 470	5% 1/4W	R395	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R068	1-247-815-91	CARBON 220	5% 1/4W	R397	1-249-425-11	CARBON 4.7K	5% 1/4W
R069	1-247-815-91	CARBON 220	5% 1/4W	R461	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R070	1-247-815-91	CARBON 220	5% 1/4W	R462	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R071	1-247-815-91	CARBON 220	5% 1/4W	R463	1-249-435-11	CARBON 33K	5% 1/4W
R072	1-216-033-00	METAL GLAZE 220	5% 1/10W	R464	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R073	1-216-033-00	METAL GLAZE 220	5% 1/10W	R465	1-249-413-11	CARBON 470	5% 1/4W
R074	1-216-033-00	METAL GLAZE 220	5% 1/10W	R466	1-126-933-11	ELECT 100MF	20% 16V
R075	1-216-033-00	METAL GLAZE 220	5% 1/10W	R467	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W
R076	1-216-033-00	METAL GLAZE 220	5% 1/10W	R469	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R077	1-216-033-00	METAL GLAZE 220	5% 1/10W	R471	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W
R078	1-249-417-11	CARBON 1K	5% 1/4W	R472	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
				R473	1-249-398-11	CARBON 27	5% 1/4W
				R475	1-249-430-11	CARBON 12K	5% 1/4W
				R476	1-249-430-11	CARBON 12K	5% 1/4W



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

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

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R477	1-249-398-11	CARBON 27	5% 1/4W				
R478	1-249-418-11	CARBON 1.2K	5% 1/4W F	R1104	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R479	1-249-418-11	CARBON 1.2K	5% 1/4W F	R1105	1-216-689-11	METAL GLAZE 39K	5% 1/10W
R480	1-249-385-11	CARBON 2.2	5% 1/4W F	R1106	1-216-049-91	METAL GLAZE 1K	5% 1/10W
				R1107	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R481	1-249-385-11	CARBON 2.2	5% 1/4W F	R1108	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R482	1-249-421-11	CARBON 2.2K	5% 1/4W				
R483	1-249-421-11	CARBON 2.2K	5% 1/4W	R1109	1-216-019-00	METAL GLAZE 56	5% 1/10W
R501	1-216-037-00	METAL GLAZE 330	5% 1/10W	R1110	1-216-019-00	METAL GLAZE 56	5% 1/10W
R502	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	R1111	1-216-019-00	METAL GLAZE 56	5% 1/10W
				R1115	1-216-045-00	METAL GLAZE 680	5% 1/10W
R503	1-249-426-11	CARBON 5.6K	5% 1/4W F	R1117	1-249-425-11	CARBON 4.7K	5% 1/4W
R504	1-215-918-00	METAL OXIDE 1.5K	5% 3W F				
R505	1-249-431-11	CARBON 15K	5% 1/4W	R1118	1-249-425-11	CARBON 4.7K	5% 1/4W
R506	1-215-861-00	METAL OXIDE 47	5% 1W F	R1120	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R507	1-249-401-11	CARBON 47	5% 1/4W	R1121	1-216-035-00	METAL GLAZE 270	5% 1/10W
				R1122	1-216-115-00	METAL GLAZE 560K	5% 1/10W
R508	1-249-427-11	CARBON 6.8K	5% 1/4W	R1123	1-216-039-00	METAL GLAZE 390	5% 1/10W
R509	1-247-750-11	CARBON 680	5% 1/2W F				
R510	1-215-860-11	METAL OXIDE 33	5% 1W F	R1125	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R511	1-215-885-00	METAL OXIDE 68	5% 2W F	R1126	1-216-035-00	METAL GLAZE 270	5% 1/10W
R512	1-215-886-11	METAL OXIDE 100	5% 2W F	R1127	1-216-115-00	METAL GLAZE 560K	5% 1/10W
				R1128	1-216-039-00	METAL GLAZE 390	5% 1/10W
R513	1-216-341-11	METAL OXIDE 0.22	5% 1W F	R1130	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R515	1-216-083-00	METAL GLAZE 27K	5% 1/10W				
R516	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	R1234	1-249-441-11	CARBON 100K	5% 1/4W
R517	1-249-415-11	CARBON 680	5% 1/4W	R1243	1-249-441-11	CARBON 100K	5% 1/4W
R518	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1244	1-216-022-00	METAL GLAZE 75	5% 1/10W
				R1245	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R519	1-249-411-11	CARBON 330	5% 1/4W	R1246	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R521	1-216-073-00	METAL GLAZE 10K	5% 1/10W				
R523	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1247	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R524	1-249-429-11	CARBON 10K	5% 1/4W	R1248	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R525	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W	R1254	1-216-113-00	METAL GLAZE 470K	5% 1/10W
				R1255	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R528	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R1256	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R529	1-208-814-11	METAL GLAZE 22K	0.50% 1/10W				
<input checked="" type="checkbox"/> R530		METAL GLAZE	1/10W	R1257	1-216-049-91	METAL GLAZE 1K	5% 1/10W
<input checked="" type="checkbox"/> R531		METAL GLAZE	1/10W	R1258	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R532	1-208-760-11	METAL GLAZE 120	0.50% 1/10W	R1259	1-216-097-91	METAL GLAZE 100K	5% 1/10W
				R1260	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R533	1-215-902-11	METAL OXIDE 47K	5% 1W F	R1261	1-216-025-91	METAL GLAZE 100	5% 1/10W
R535	1-216-101-00	METAL GLAZE 150K	5% 1/10W				
R536	1-249-377-11	CARBON 0.47	5% 1/4W F	R1262	1-216-025-91	METAL GLAZE 100	5% 1/10W
R537	1-249-377-11	CARBON 0.47	5% 1/4W F	R1264	1-216-025-91	METAL GLAZE 100	5% 1/10W
R538	1-247-887-00	CARBON 220K	5% 1/4W	R1266	1-216-025-91	METAL GLAZE 100	5% 1/10W
				R1267	1-216-295-91	CONDUCTOR, CHIP	
R546	1-215-453-00	METAL 22K	1% 1/4W	R1268	1-216-025-91	METAL GLAZE 100	5% 1/10W
R547	1-215-457-00	METAL 33K	1% 1/4W				
R549	1-215-437-00	METAL 4.7K	1% 1/4W	R1270	1-216-025-91	METAL GLAZE 100	5% 1/10W
R550	1-249-377-11	CARBON 0.47	5% 1/4W F	R1272	1-216-025-91	METAL GLAZE 100	5% 1/10W
R551	1-215-873-00	METAL OXIDE 4.7K	5% 1W F	R1274	1-216-025-91	METAL GLAZE 100	5% 1/10W
				R1277	1-247-815-91	CARBON 220	5% 1/4W
R553	1-249-377-11	CARBON 0.47	5% 1/4W F	R1278	1-247-815-91	CARBON 220	5% 1/4W
R561	1-216-073-00	METAL GLAZE 10K	5% 1/10W				
R563	1-216-351-00	METAL OXIDE 1.5	5% 1W F	R1280	1-216-025-91	METAL GLAZE 100	5% 1/10W
R564	1-249-393-11	CARBON 10	5% 1/4W	R1282	1-216-025-91	METAL GLAZE 100	5% 1/10W
R565	1-215-890-11	METAL OXIDE 470	5% 2W F	R1284	1-247-807-31	CARBON 100	5% 1/4W
				R1286	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R566	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1287	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R567	1-249-385-11	CARBON 2.2	5% 1/4W F				
R568	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1288	1-247-807-31	CARBON 100	5% 1/4W
R569	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1290	1-216-043-91	METAL GLAZE 560	5% 1/10W
R570	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R1291	1-216-045-00	METAL GLAZE 680	5% 1/10W
				R1292	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R571	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1293	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R572	1-216-081-00	METAL GLAZE 22K	5% 1/10W				
R573	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R1294	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R574	1-216-365-00	METAL OXIDE 0.47	5% 2W F	R1295	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R575	1-216-113-00	METAL GLAZE 470K	5% 1/10W	R1351	1-247-815-91	CARBON 220	5% 1/4W
				R1352	1-247-815-91	CARBON 220	5% 1/4W
R576	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1353	1-247-815-91	CARBON 220	5% 1/4W
R577	1-216-097-91	METAL GLAZE 100K	5% 1/10W				
R578	1-208-784-11	METAL GLAZE 1.2K	0.50% 1/10W	R1354	1-216-033-00	METAL GLAZE 220	5% 1/10W
R579	1-208-842-11	METAL GLAZE 330K	0.50% 1/10W	R1355	1-216-025-91	METAL GLAZE 100	5% 1/10W
R580	1-249-441-11	CARBON 100K	5% 1/4W	R1356	1-216-025-91	METAL GLAZE 100	5% 1/10W
				R1357	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1009	1-216-033-00	METAL GLAZE 220	5% 1/10W	R1358	1-247-807-31	CARBON 100	5% 1/4W
R1010	1-216-033-00	METAL GLAZE 220	5% 1/10W				
R1101	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R1359	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1102	1-215-900-11	METAL OXIDE 22K	5% 2W F	R1360	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1103	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W	R1361	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W



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

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REF. NO.	PART NO.	DESCRIPTION	REMARK
R1362	1-216-295-91	CONDUCTOR, CHIP	
R1402	1-249-429-11	CARBON 10K	5% 1/4W
R1404	1-249-429-11	CARBON 10K	5% 1/4W
R1407	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1411	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1412	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1413	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1414	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1415	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1418	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1419	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1420	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1421	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1424	1-247-807-31	CARBON 100	5% 1/4W
R1425	1-247-807-31	CARBON 100	5% 1/4W
<SWITCH>			
S001	1-692-431-21	SWITCH, TACTILE	
S002	1-692-431-21	SWITCH, TACTILE	
S003	1-692-431-21	SWITCH, TACTILE	
S004	1-692-431-21	SWITCH, TACTILE	
S005	1-692-431-21	SWITCH, TACTILE	
S006	1-692-431-21	SWITCH, TACTILE	
S007	Δ 1-692-431-21	SWITCH, TACTILE	
S501	1-572-707-11	SWITCH, LEVER	
<TRANSFORMER>			
T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
T502	Δ 1-424-345-22	TRANSFORMER, FERRITE (PMT)	
T503	Δ 1-433-207-11	TRANSFORMER ASSY, FRYBACK	NX-2609//X4C
<TUNER>			
TU102	Δ 8-598-341-00	TUNER BITF-WA405	
<CRYSTAL>			
X001	1-578-774-11	VIBRATOR, CRYSTAL	
X353	1-567-505-11	OSCILLATOR, CRYSTAL	
X354	1-577-611-11	OSCILALTOR, CERAMIC	

* A-1316-249-A G BOARD, COMPLETE			

(KV-27S20(U)/27S20(CND)/27S25(U)/			
29PS1(E)/29RS20(E)/29RS25(E)/			
29SD1(E)/32S20(U)/32S20(CND)/			
32S25(U)/32S25(CND))			
4-382-854-11		SCREW (M3X10), P, SW (+)	
<CAPACITOR>			
C603	Δ 1-113-915-51	ELECT	0.001MF 20% 250V
C604	Δ 1-136-346-51	FILM	0.22MF 20% 125V
C605	Δ 1-136-346-51	FILM	0.22MF 20% 125V
C606	1-115-388-11	ELECT	560MF 20% 200V
C607	1-115-388-11	ELECT	560MF 20% 200V
C608	1-164-645-11	CERAMIC	1000PF 10% 500V
C609	1-136-173-00	FILM	0.47MF 5% 50V
C610	1-136-173-00	FILM	0.47MF 5% 50V
C611	1-136-169-00	FILM	0.22MF 5% 50V
C612	1-136-169-00	FILM	0.22MF 5% 50V
C613	1-164-645-11	CERAMIC	1000PF 10% 500V
C614	1-164-645-11	CERAMIC	1000PF 10% 500V
C615	1-136-759-11	FILM	0.039MF 5% 630V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C617	Δ 1-113-915-51	ELECT	0.001MF 20% 250V
C641	1-126-943-11	ELECT	2200MF 20% 25V
C642	1-126-952-11	ELECT	1000MF 20% 16V
C643	1-107-641-11	ELECT	220MF 20% 160V
C646	1-126-933-11	ELECT	100MF 20% 16V
C647	1-128-551-11	ELECT	22MF 20% 25V
C648	1-126-933-11	ELECT	100MF 20% 16V
C651	1-137-366-11	FILM	0.0022MF 5% 50V
C652	1-106-351-00	MYLAR	0.0022MF 200V
C653	1-107-636-11	ELECT	10MF 20% 160V
C654	1-164-625-11	CERAMIC	680PF 10% 500V
C655	1-164-625-11	CERAMIC	680PF 10% 500V
C656	1-164-625-11	CERAMIC	680PF 10% 500V
C657	1-164-625-11	CERAMIC	680PF 10% 500V
C690	1-164-645-11	CERAMIC	1000PF 10% 500V
C691	1-164-645-11	CERAMIC	1000PF 10% 500V
<CONNECTOR>			
CN601	* 1-508-765-00	PIN, CONNECTOR (5mm PITCH) 3P	
CN602	* 1-580-844-11	PIN, CONNECTOR (POWER)	
CN641	* 1-564-515-11	PLUG, CONNECTOR 12P	
<DIODE>			
D601	8-719-911-19	DIODE 1SS119-25	
D602	Δ 8-719-510-53	DIODE D4SB60L	
D603	8-719-911-19	DIODE 1SS119-25	
D604	8-719-911-19	DIODE 1SS119-25	
D605	8-719-911-19	DIODE 1SS119-25	
D606	8-719-911-19	DIODE 1SS119-25	
D607	8-719-911-19	DIODE 1SS119-25	
D608	8-719-911-19	DIODE 1SS119-25	
D609	8-719-911-19	DIODE 1SS119-25	
D610	8-719-911-19	DIODE 1SS119-25	
D615	8-719-028-45	DIODE D2L20U	
D641	8-719-052-40	DIODE RBA-1004B	
D643	8-719-028-45	DIODE D2L20U	
D644	8-719-028-45	DIODE D2L20U	
D645	8-719-028-45	DIODE D2L20U	
D646	8-719-510-12	DIODE D10SC4M	
D648	8-719-057-52	DIODE EZ0150AV1	
D649	8-719-510-02	DIODE D1NS4	
D650	8-719-510-02	DIODE D1NS4	
<FUSE>			
F601	Δ 1-576-193-11	FUSE 6.3A/125V	
	1-533-223-11	HOLDER, FUSE; F601	
<FERRITE BEAD>			
FB601	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB602	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB641	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB642	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB643	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB644	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB645	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB646	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB647	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB648	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
<IC>			
IC641	8-749-920-58	IC SI-3090CA	
IC642	8-759-701-56	IC NJM78M05FA	
IC643	Δ 8-749-012-13	IC DM-58	



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

REF. NO.	PART NO.	DESCRIPTION	REMARK
<COIL>			
L642	1-412-529-11	INDUCTOR 22UH	
L643	1-412-525-31	INDUCTOR 10UH	
<TRANSISTOR>			
Q601	8-729-019-49	TRANSISTOR 2SC4834M	
Q602	8-729-019-49	TRANSISTOR 2SC4834M	
Q644	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<RESISTOR>			
R603	Δ 1-219-512-91	RESISTOR(SURGE RESISTANT) 2.2M	
R605	1-247-893-11	CARBON 390K 5% 1/4W	
R606	1-247-893-11	CARBON 390K 5% 1/4W	
R607	Δ 1-202-933-61	FUSIBLE 0.1 10% 1/2W F	
R608	1-216-369-00	METAL OXIDE 1 5% 2W F	
R609	1-247-791-91	CARBON 22 5% 1/4W	
R610	1-247-791-91	CARBON 22 5% 1/4W	
R611	1-216-369-00	METAL OXIDE 1 5% 2W F	
R612	1-247-887-00	CARBON 220K 5% 1/4W	
R613	1-247-887-00	CARBON 220K 5% 1/4W	
R614	1-247-887-00	CARBON 220K 5% 1/4W	
R615	1-247-887-00	CARBON 220K 5% 1/4W	
R616	1-247-791-91	CARBON 22 5% 1/4W	
R617	1-247-791-91	CARBON 22 5% 1/4W	
R622	Δ 1-212-958-61	FUSIBLE 10 5% 1/2W F	
R623	1-205-943-11	WIREWOUND 1 5% 20W	
R641	1-249-423-11	CARBON 3.3K 5% 1/4W	
R642	1-249-423-11	CARBON 3.3K 5% 1/4W	
R643	1-249-387-11	CARBON 3.3 5% 1/4W F	
R644	1-215-882-00	METAL OXIDE 22 5% 2W F	
R645	Δ 1-260-304-51	CARBON 10 5% 1/2W	
R646	1-216-369-00	METAL OXIDE 1 5% 2W F	
R647	1-249-417-11	CARBON 1K 5% 1/4W	
R648	1-247-887-00	CARBON 220K 5% 1/4W	
R649	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R652	1-249-421-11	CARBON 2.2K 5% 1/4W	
R661	Δ 1-249-413-91	CARBON 470 5% 1/4W F	
R662	1-249-429-11	CARBON 10K 5% 1/4W	
R663	Δ 1-249-377-11	CARBON 0.47 5% 1/4W F	
R664	Δ 1-249-377-11	CARBON 0.47 5% 1/4W F	
R665	Δ 1-249-377-11	CARBON 0.47 5% 1/4W F	
R666	1-249-377-11	CARBON 0.47 5% 1/4W F	
R667	Δ 1-249-377-11	CARBON 0.47 5% 1/4W F	
R668	Δ 1-249-377-11	CARBON 0.47 5% 1/4W F	
R670	Δ 1-249-377-11	CARBON 0.47 5% 1/4W F	
R671	Δ 1-249-377-11	CARBON 0.47 5% 1/4W F	
R672	Δ 1-249-377-11	CARBON 0.47 5% 1/4W F	
<RELAY>			
RY601	Δ 1-755-018-11	RELAY	
<TRANSFORMER>			
T601	1-426-717-11	TRANSFORMER, LINE FILTER (LFT)	
T602	Δ 1-424-220-11	TRANSFORMER, LINE FILTER	
T603	Δ 1-427-864-11	TRANSFORMER, CONVERTER (PRT)	
T605	Δ 1-429-415-11	TRANSFORMER, CONVERTER (PIT)	
<THERMISTOR>			
THP601	Δ 1-809-539-21	THERMISTOR, POSITIVE	
<VARISTOR>			
VDR601	Δ 1-810-974-11	VARISTOR	

REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1316-252-A	G BOARD, COMPLETE	*****	(KV-29RS20C(E)/29RS25C(E)/34RS20C(E))
4-382-854-11	SCREW (M3X10), P, SW (+)		
<CAPACITOR>			
C602	1-126-963-11	ELECT 4.7MF 20% 50V	
C603	Δ 1-113-915-51	ELECT 0.001MF 20% 250V	
C605	Δ 1-136-346-51	FILM 0.22MF 20% 300V	
C606	1-115-388-11	ELECT 560MF 20% 200V	
C607	1-115-388-11	ELECT 560MF 20% 200V	
C608	1-164-645-11	CERAMIC 1000PF 10% 500V	
C609	1-136-173-00	FILM 0.47MF 5% 50V	
C610	1-136-173-00	FILM 0.47MF 5% 50V	
C611	1-136-169-00	FILM 0.22MF 5% 50V	
C612	1-136-169-00	FILM 0.22MF 5% 50V	
C613	1-164-645-11	CERAMIC 1000PF 10% 500V	
C614	1-164-645-11	CERAMIC 1000PF 10% 500V	
C615	1-136-759-11	FILM 0.039MF 5% 630V	
C617	Δ 1-113-915-51	ELECT 0.001MF 20% 250V	
C626	1-113-897-51	ELECT 100PF 10% 250V	
C641	1-126-943-11	ELECT 2200MF 20% 25V	
C642	1-126-952-11	ELECT 1000MF 20% 16V	
C643	1-107-641-11	ELECT 220MF 20% 160V	
C646	1-126-933-11	ELECT 100MF 20% 16V	
C647	1-128-551-11	ELECT 22MF 20% 25V	
C648	1-126-933-11	ELECT 100MF 20% 16V	
C651	1-137-366-11	FILM 0.0022MF 5% 50V	
C652	1-106-351-00	MYLAR 0.0022MF 200V	
C653	1-107-636-11	ELECT 10MF 20% 160V	
C654	1-164-625-11	CERAMIC 680PF 10% 500V	
C655	1-164-625-11	CERAMIC 680PF 10% 500V	
C656	1-164-625-11	CERAMIC 680PF 10% 500V	
C657	1-164-625-11	CERAMIC 680PF 10% 500V	
C690	1-164-645-11	CERAMIC 1000PF 10% 500V	
C691	1-164-645-11	CERAMIC 1000PF 10% 500V	
<CONNECTOR>			
CN601	* 1-508-765-00	PIN, CONNECTOR (5mm PITCH) 3P	
CN602	* 1-580-844-11	PIN, CONNECTOR (POWER)	
CN604	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN641	* 1-564-515-11	PLUG, CONNECTOR 12P	
<DIODE>			
D601	8-719-911-19	DIODE 1SS119-25	
D602	Δ 8-719-510-53	DIODE D4SB60L	
D603	8-719-911-19	DIODE 1SS119-25	
D604	8-719-911-19	DIODE 1SS119-25	
D605	8-719-911-19	DIODE 1SS119-25	
D606	8-719-911-19	DIODE 1SS119-25	
D607	8-719-911-19	DIODE 1SS119-25	
D608	8-719-911-19	DIODE 1SS119-25	
D609	8-719-911-19	DIODE 1SS119-25	
D610	8-719-911-19	DIODE 1SS119-25	
D615	8-719-028-45	DIODE D2L20U	
D641	8-719-052-40	DIODE RBA-1004B	
D643	8-719-028-45	DIODE D2L20U	
D644	8-719-028-45	DIODE D2L20U	
D645	8-719-028-45	DIODE D2L20U	
D646	8-719-510-12	DIODE D10SC4M	
D648	8-719-057-52	DIODE EZ0150AV1	
D649	8-719-510-02	DIODE D1NS4	
D650	8-719-510-02	DIODE D1NS4	

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

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REF. NO.	PART NO.	DESCRIPTION	REMARK
		<FUSE>	
F601	Δ 1-532-506-51	FUSE (6.3A/250V)	
	1-533-223-11	HOLDER, FUSE; F601	
		<FERRITE BEAD>	
FB601	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB602	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB641	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB642	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB643	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB644	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB645	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB646	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB647	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB648	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
		<IC>	
IC641	8-749-920-58	IC SI-3090CA	
IC642	8-759-701-56	IC NJM78M05FA	
IC643	Δ 8-749-012-13	IC DM-58	
		<COIL>	
L642	1-412-529-11	INDUCTOR 22UH	
L643	1-412-525-31	INDUCTOR 10UH	
		<TRANSISTOR>	
Q601	8-729-019-49	TRANSISTOR 2SC4834M	
Q602	8-729-019-49	TRANSISTOR 2SC4834M	
Q644	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q647	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		<RESISTOR>	
R603	Δ 1-247-289-11	CARBON 8.2M 5% 1W	
R605	1-247-893-11	CARBON 390K 5% 1/4W	
R606	1-247-893-11	CARBON 390K 5% 1/4W	
R607	Δ 1-202-933-61	FUSIBLE 0.1 10% 1/2W F	
R608	1-216-369-00	METAL OXIDE 1 5% 2W F	
R609	1-247-791-91	CARBON 22 5% 1/4W	
R610	1-247-791-91	CARBON 22 5% 1/4W	
R611	1-216-369-00	METAL OXIDE 1 5% 2W F	
R612	1-247-887-00	CARBON 220K 5% 1/4W	
R613	1-247-887-00	CARBON 220K 5% 1/4W	
R614	1-247-887-00	CARBON 220K 5% 1/4W	
R615	1-247-887-00	CARBON 220K 5% 1/4W	
R616	1-247-791-91	CARBON 22 5% 1/4W	
R617	1-247-791-91	CARBON 22 5% 1/4W	
R622	Δ 1-212-958-61	FUSIBLE 10 5% 1/2W F	
R623	1-243-032-11	WIREWOUND 3.9 5% 20W	
R641	1-249-423-11	CARBON 3.3K 5% 1/4W	
R642	1-249-423-11	CARBON 3.3K 5% 1/4W	
R643	1-249-387-11	CARBON 3.3 5% 1/4W F	
R644	1-215-882-00	METAL OXIDE 22 5% 2W F	
R645	Δ 1-260-304-51	CARBON 10 5% 1/2W	
R647	1-249-417-11	CARBON 1K 5% 1/4W	
R648	1-247-887-00	CARBON 220K 5% 1/4W	
R649	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R652	1-249-421-11	CARBON 2.2K 5% 1/4W	
R659	1-249-429-11	CARBON 10K 5% 1/4W	
R661	Δ 1-249-413-91	CARBON 470 5% 1/4W F	
R662	1-249-429-11	CARBON 10K 5% 1/4W	
R663	Δ 1-249-377-11	CARBON 0.47 5% 1/4W F	
R664	Δ 1-249-377-11	CARBON 0.47 5% 1/4W F	

REF. NO.	PART NO.	DESCRIPTION	REMARK
R665	Δ 1-249-377-11	CARBON 0.47 5% 1/4W F	
R666	1-249-377-11	CARBON 0.47 5% 1/4W F	
R667	Δ 1-249-377-11	CARBON 0.47 5% 1/4W F	
R668	Δ 1-249-377-11	CARBON 0.47 5% 1/4W F	
R670	Δ 1-249-377-11	CARBON 0.47 5% 1/4W F	
R671	Δ 1-249-377-11	CARBON 0.47 5% 1/4W F	
R672	Δ 1-249-377-11	CARBON 0.47 5% 1/4W F	
		<RELAY>	
RY601	Δ 1-755-018-11	RELAY	
		<TRANSFORMER>	
T601	1-426-717-11	TRANSFORMER, LINE FILTER (LFT)	
T602	Δ 1-424-220-11	TRANSFORMER, LINE FILTER	
T603	Δ 1-427-864-11	TRANSFORMER, CONVERTER (PRT)	
T605	Δ 1-429-415-11	TRANSFORMER, CONVERTER (PIT)	
		<THERMISTOR>	
THP601	Δ 1-809-827-21	THERMISTOR, POSITIVE	
		<VARISTOR>	
VDR601	Δ 1-810-974-11	VARISTOR	

* A-1331-516-A C BOARD, COMPLETE			

		<CAPACITOR>	
C1766	1-102-114-00	CERAMIC 470PF 10% 50V	
C1767	1-102-116-00	CERAMIC 680PF 10% 50V	
C1776	1-102-114-00	CERAMIC 470PF 10% 50V	
C1777	1-102-116-00	CERAMIC 680PF 10% 50V	
C1786	1-102-114-00	CERAMIC 470PF 10% 50V	
C1787	1-102-116-00	CERAMIC 680PF 10% 50V	
C1790	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C1791	1-126-933-11	ELECT 100MF 20% 16V	
C1793	1-107-651-11	ELECT 4.7MF 20% 250V	
C1795	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C1797	1-106-375-12	MYLAR 0.022MF 200V	
C1798	1-106-375-12	MYLAR 0.022MF 200V	
C1799	1-162-114-00	CERAMIC 0.0047MF 2KV	
		<CONNECTOR>	
CN1761	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN1764	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1765	1-695-915-11	TAB (CONTACT)	
CN1766	1-695-915-11	TAB (CONTACT)	
		<DIODE>	
D1761	8-719-991-33	DIODE 1SS133T-77	
D1762	8-719-991-33	DIODE 1SS133T-77	
D1763	8-719-991-33	DIODE 1SS133T-77	
D1771	8-719-991-33	DIODE 1SS133T-77	
D1772	8-719-991-33	DIODE 1SS133T-77	
D1773	8-719-991-33	DIODE 1SS133T-77	
D1781	8-719-991-33	DIODE 1SS133T-77	
D1782	8-719-991-33	DIODE 1SS133T-77	
D1783	8-719-991-33	DIODE 1SS133T-77	
D1790	8-719-991-33	DIODE 1SS133T-77	
D1792	8-719-983-14	DIODE MTZJ-T-77-3.9	



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REF. NO.	PART NO.	DESCRIPTION	REMARK
		<JACK>	
J1761	A-1-251-388-11	SOCKET, PICTURE TUBE	
		<COIL>	
L1790	1-410-667-31	INDUCTOR 22UH	
		<TRANSISTOR>	
Q1761	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1762	8-729-326-11	TRANSISTOR 2SC2611	
Q1763	8-729-200-17	TRANSISTOR 2SA1091-O	
Q1771	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1772	8-729-326-11	TRANSISTOR 2SC2611	
Q1773	8-729-200-17	TRANSISTOR 2SA1091-O	
Q1781	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1782	8-729-326-11	TRANSISTOR 2SC2611	
Q1783	8-729-200-17	TRANSISTOR 2SA1091-O	
Q1790	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		<RESISTOR>	
R1760	1-260-105-11	CARBON 3.3K	5% 1/2W
R1761	1-247-807-31	CARBON 100	5% 1/4W
R1763	1-249-409-11	CARBON 220	5% 1/4W
R1764	1-215-924-00	METAL OXIDE 15K	5% 3W
R1765	1-249-413-11	CARBON 470	5% 1/4W
R1766	1-249-393-11	CARBON 10	5% 1/4W
R1767	1-249-425-11	CARBON 4.7K	5% 1/4W
R1768	1-249-417-11	CARBON 1K	5% 1/4W
R1770	1-260-105-11	CARBON 3.3K	5% 1/2W
R1771	1-247-807-31	CARBON 100	5% 1/4W
R1773	1-249-409-11	CARBON 220	5% 1/4W
R1774	1-215-924-00	METAL OXIDE 15K	5% 3W
R1775	1-249-411-11	CARBON 330	5% 1/4W
R1776	1-249-393-11	CARBON 10	5% 1/4W
R1777	1-249-425-11	CARBON 4.7K	5% 1/4W
R1780	1-260-105-11	CARBON 3.3K	5% 1/2W
R1781	1-247-807-31	CARBON 100	5% 1/4W
R1783	1-249-409-11	CARBON 220	5% 1/4W
R1784	1-215-924-00	METAL OXIDE 15K	5% 3W
R1785	1-249-411-11	CARBON 330	5% 1/4W
R1786	1-249-393-11	CARBON 10	5% 1/4W
R1787	1-249-425-11	CARBON 4.7K	5% 1/4W
R1789	1-249-437-11	CARBON 47K	5% 1/4W
R1792	1-247-815-91	CARBON 220	5% 1/4W
R1793	1-247-863-91	CARBON 22K	5% 1/4W
R1794	1-249-417-11	CARBON 1K	5% 1/4W
R1795	1-260-087-11	CARBON 100	5% 1/2W
R1796	1-216-374-00	METAL OXIDE 2.7	5% 2W
R1797	1-260-123-11	CARBON 100K	5% 1/2W

* A-1195-103-A P BOARD, COMPLETE

 (KV-27S25(U)/29RS25(E)/29RS25C(E)/
 32S25(U)/32S25(CND))

<CAPACITOR>

C3301	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C3302	1-164-346-11	CERAMIC CHIP 1MF	16V
C3303	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C3304	1-124-903-11	ELECT 1MF	20% 50V
C3305	1-163-038-91	CERAMIC CHIP 0.1MF	25V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C3306	1-126-967-11	ELECT 47MF	20% 16V
C3307	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C3308	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C3309	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C3310	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3313	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C3314	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C3315	1-164-346-11	CERAMIC CHIP 1MF	16V
C3319	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C3320	1-124-903-11	ELECT 1MF	20% 50V
C3321	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C3322	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C3323	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C3324	1-126-967-11	ELECT 47MF	20% 16V
C3325	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C3326	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C3327	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C3328	1-126-967-11	ELECT 47MF	20% 16V
C3329	1-126-967-11	ELECT 47MF	20% 16V
C3330	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C3331	1-126-967-11	ELECT 47MF	20% 16V
C3332	1-104-664-11	ELECT 47MF	20% 25V
C3333	1-164-695-11	CERAMIC CHIP 0.0022MF	5% 50V
C3334	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C3335	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C3336	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C3337	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C3338	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C3340	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C3346	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C3347	1-124-903-11	ELECT 1MF	20% 50V
C3348	1-126-967-11	ELECT 47MF	20% 16V
C3349	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C3350	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3351	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
		<CONNECTOR>	
CN3301	* 1-764-816-11	CONNECTOR, BOARD TO BOARD 20P	
		<IC>	
IC3301	8-759-366-24	IC TDA8315T/N3A-T	
IC3302	8-759-231-53	IC TA7805S	
IC3303	8-759-361-12	IC SDA9288X	
		<COIL>	
L3301	1-408-413-00	INDUCTOR 22UH	
L3302	1-410-473-11	INDUCTOR 18UH	
L3303	1-408-418-00	INDUCTOR 56UH	
		<TRANSISTOR>	
Q3301	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3305	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3306	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3307	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3308	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3310	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3312	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3313	8-729-422-27	TRANSISTOR 2SD601A-Q	
		<RESISTOR>	
R3301	1-216-075-00	METAL GLAZE 12K	5% 1/10W
R3302	1-216-043-91	METAL GLAZE 560	5% 1/10W
R3303	1-216-295-91	CONDUCTOR, CHIP	
R3304	1-216-043-91	METAL GLAZE 560	5% 1/10W
R3306	1-215-882-00	METAL OXIDE 22	5% 2W



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REF. NO.	PART NO.	DESCRIPTION	REMARK
R3307	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R3308	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W
R3309	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W
R3310	1-216-689-11	METAL GLAZE 39K	5% 1/10W
R3311	1-216-689-11	METAL GLAZE 39K	5% 1/10W
R3312	1-216-037-00	METAL GLAZE 330	5% 1/10W
R3313	1-216-041-00	METAL GLAZE 470	5% 1/10W
R3314	1-216-041-00	METAL GLAZE 470	5% 1/10W
R3315	1-216-041-00	METAL GLAZE 470	5% 1/10W
R3316	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
R3319	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
R3321	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
R3322	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R3323	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R3324	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R3326	1-216-037-00	METAL GLAZE 330	5% 1/10W
R3327	1-216-031-00	METAL GLAZE 180	5% 1/10W
R3328	1-216-037-00	METAL GLAZE 330	5% 1/10W
R3329	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W
R3330	1-216-035-00	METAL GLAZE 270	5% 1/10W
R3331	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R3332	1-216-041-00	METAL GLAZE 470	5% 1/10W
R3337	1-216-033-00	METAL GLAZE 220	5% 1/10W
R3338	1-216-033-00	METAL GLAZE 220	5% 1/10W
R3339	1-216-041-00	METAL GLAZE 470	5% 1/10W
R3340	1-216-041-00	METAL GLAZE 470	5% 1/10W
R3341	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R3342	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R3343	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R3346	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R3351	1-216-295-91	CONDUCTOR, CHIP	
R3352	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R3358	1-216-047-91	METAL GLAZE 820	5% 1/10W
R3359	1-216-047-91	METAL GLAZE 820	5% 1/10W
R3360	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
R3361	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
R3362	1-216-029-00	METAL GLAZE 150	5% 1/10W
R3363	1-216-031-00	METAL GLAZE 180	5% 1/10W
R3364	1-216-035-00	METAL GLAZE 270	5% 1/10W
R3365	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R3366	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R3367	1-216-095-00	METAL GLAZE 82K	5% 1/10W
R3368	1-216-103-91	METAL GLAZE 180K	5% 1/10W
R3369	1-216-101-00	METAL GLAZE 150K	5% 1/10W
R3370	1-216-041-00	METAL GLAZE 470	5% 1/10W
R3371	1-216-095-00	METAL GLAZE 82K	5% 1/10W
R3372	1-216-041-00	METAL GLAZE 470	5% 1/10W
R3373	1-216-035-00	METAL GLAZE 270	5% 1/10W
<CRYSTAL>			
X3301	1-567-505-11	OSCILLATOR, CRYSTAL	
X3302	1-760-095-21	VIBRATOR, CRYSTAL	

MISCELLANEOUS *****			
Δ 1-402-952-12	COIL, DEMAGNETIZATION (KV-32S20(CND)/32S25(U)/32S25(CND))		
Δ 1-406-726-13	COIL, DEGAUSSING		
Δ 1-411-474-11	COIL, DEMAGNETIZATION (KV-34RS20C(E))		
1-452-032-00	MAGNET, DISK ; 10mm ϕ		
1-452-094-00	MAGNET, ROTABLE DISK ; 15mm ϕ		
1-504-531-11	SPEAKER (13.1X6.2CM)		

REF. NO.	PART NO.	DESCRIPTION	REMARK
Δ 1-751-059-11	CORD, POWER (WITH CONNECTOR) 10A/125V (KV-27S20(U)/27S20(CND)/27S25(U)/ 29PS1(E)/29RS20(E)/29RS25(E)/ 29SD1(E)/32S20(U)/32S20(CND)/ 32S25(U)/32S25(CND))		
1-766-374-11	PLUG, F-PIN		
Δ 1-769-796-21	CORD, POWER (WITH CONNECTOR) 10A/125V (KV-29RS20C(E)/29RS25C(E)/34RS20C(E))		
1-900-800-81	WIRE ASSY, G2 LEAD		
1-900-800-82	WIRE ASSY, FOCUS		
Δ 8-451-275-42	DEFLECTION YOKE (Y28PFA) (KV-27S20(U)/27S20(CND)/27S25(U)/ 29PS1(E)/29RS20(E)/29RS20C(E)/ 29RS25(E)/29RS25C(E)/29SD1(E))		
Δ 8-451-482-11	DEFLECTION YOKE (Y34FXA2) (KV-32S20(U)/32S20(CND)/32S25(U)/ 32S25(CND)/34RS20C(E))		
V901 Δ 8-733-742-05	PICTURE TUBE (M80JYV51X) (KV-34RS20C(E))		
V901 Δ 8-733-743-05	PICTURE TUBE (M80JYV51X) (KV-32S20(U)/32S20(CND)/32S25(U)/32S25(CND))		
V901 Δ 8-733-848-05	PICTURE TUBE (A68KZJ50X) (KV-27S20(U)/27S20(CND)/27S25(U)/29PS1(E)/ 29RS20(E)/29RS25(E)/29SD1(E))		
V901 Δ 8-733-849-05	PICTURE TUBE (A68KZJ50X) (KV-29RS20C(E)/29RS25C(E))		

ACCESSORIES AND PACKING MATERIALS *****			
3-810-852-21	MANUAL, INSTRUCTION (KV-27S20(U)/27S20(CND)/32S20(U)/ 32S20(CND))		
3-810-852-41	MANUAL, INSTRUCTION (KV-29PS1(E)/29RS20(E)/29RS20C(E)/ 29SD1(E)/34RS20C(E))		
3-810-687-21	MANUAL, INSTRUCTION (KV-27S25(U)/32S25(U)/32S25(CND))		
3-810-687-41	MANUAL, INSTRUCTION (KV-29RS25(E)/29RS25C(E))		
3-701-627-00	BAG, POLYETHYLENE		
* 4-035-022-01	INDIVIDUAL CARTON (KV-27S20(U)/27S25(U))		
* 4-040-146-01	INDIVIDUAL CARTON (KV-32S20(U)/32S20(CND)/32S25(U)/ 32S25(CND))		
* 4-041-255-01	BAG, PROTECTION		
* 4-041-277-01	INDIVIDUAL CARTON (KV-27S20(U)/27S25(U))		
* 4-048-944-01	INDIVIDUAL CARTON (KV-29PS1(E)/29RS20(E)/29RS20C(E)/ 29RS25(E)/29RS25C(E)/29SD1(E))		
* 4-049-757-11	BAG, PROTECTION		
* 4-049-758-11	BAG, PROTECTION (KV-32S20(U)/32S20(CND)/32S25(U)/ 32S25(CND)/34RS20C(E))		
* 4-052-382-01	CUSHION (UPPER) (ASSY)		
* 4-052-382-11	CUSHION (UPPER) (ASSY)		
* 4-052-383-01	CUSHION (LOWER) (ASSY)		
* 4-052-383-11	CUSHION (LOWER) (ASSY)		
4-052-385-11	CUSHION (LEFT UPPER)		
4-052-386-11	CUSHION (RIGHT UPPER)		

REF. NO.	PART NO.	DESCRIPTION	REMARK
	4-052-387-11	CUSHION (LEFT LOWER)	
	4-052-388-11	CUSHION (RIGHT LOWER)	
*	4-052-547-01	CUSHION (UPPER) (ASSY) (KV-32S20(U)/32S20(CND)/32S25(U)/ 32S25(CND)/34RS20C(E))	
*	4-052-548-01	CUSHION (LOWER) (ASSY) (KV-32S20(U)/32S20(CND)/32S25(U)/ 32S25(CND)/34RS20C(E))	
		REMOTE COMMANDER *****	
	8-917-532-90	REMOTE COMMANDER (RM-Y135//M) (KV-27S20(U)/27S20(CND)/29PS1(E)/ 29RS20(E)/29RS20C(E)/29SD1(E)/ 32S20(U)/32S20(CND)/34RS20C(E))	
	4-978-977-01	POCKET, COVER (FOR RM-Y135//M)	
	8-917-533-90	REMOTE COMMANDER (RM-Y136//M) (KV-27S25(U)/29RS25(E)/29RS25C(E)/ 32S25(U)/32S25(CND))	
	4-978-977-01	POCKET, COVER (FOR RM-Y136//M)	