

SERVICE MANUAL

BA-4D CHASSIS

Self Diagnosis
Supported model

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST</u>	<u>CHASSIS NO.</u>
KV-27V42	RM-Y165	US	SCC-S27M-A
KV-27V66	RM-Y167	US	SCC-S27J-A
KV-27V66	RM-Y167	CND	SCC-S28H-A
KV-29SL42K	RM-Y149A	KOREA	SCC-S29A-A
KV-29SL42T	RM-Y165	TAIWAN	SCC-S30A-A
KV-29VL42T	RM-Y165	TAIWAN	SCC-S30B-A
KV-29XL42T	RM-Y165	TAIWAN	SCC-S30C-A



KV-29SL42K



RM-Y149A



TRINITRON® COLOR TV
SONY®

SPECIFICATIONS

	KV-27V42, KV-29SL42T	KV-27V66	KV-29SL42K	KV-29VL42T, KV-29XL42T
Power Requirements	120V, 60Hz	120V, 60Hz	AUTO VOLT 120-220V, 50-60Hz	120V, 60Hz
Number of inputs/outputs				
Video ¹⁾	3	3	2	2
S-Video Input ²⁾	1	1	1	1
Audio Input ³⁾	3	3	2	2
Audio Out ⁴⁾	1	1	1	1
Speaker Output (W)	5WX2	10WX2	5WX2	5WX2
Power Consumption (W)				
In Use (Max)	140W	180W	140W	140W
In Standby	2W	2W	2W	2W
Dimensions (W/H/D)				
(mm)	690 x 575.4 x 503.4 mm	690 x 575.4 x 503.4 mm	690 x 575.4 x 503.4 mm	690 x 575.4 x 503.4 mm
(in)	27 ¹ / ₄ x 22 ³ / ₄ x 19 ⁷ / ₈ in.	27 ¹ / ₄ x 22 ³ / ₄ x 19 ⁷ / ₈ in.	27 ¹ / ₄ x 22 ³ / ₄ x 19 ⁷ / ₈ in.	27 ¹ / ₄ x 22 ³ / ₄ x 19 ⁷ / ₈ in.
Mass				
(kg)	42.4 kg	42.4 kg	42.4 kg	42.4 kg
(lbs)	93 lbs. 8oz	93 lbs. 8oz	93 lbs. 8oz	93 lbs. 8oz

Television system

American TV standard/NTSC

Picture Tube

Trinitron® tube

Channel coverage

VHF:2-13/UHF:14-69/CATV:1-125

Visible screen size

27" picture measured diagonally

Actual screen size

29" picture measured diagonally

Antenna

75 ohm external terminal for VHF/UHF

Supplied Accessories

Remote Commander (RM-Y165) (KV-27V42/29SL42T/29VL42T/29XL42T)

Remote Commander (RM-Y167) (KV-27V66)

Remote Commander (RM-Y149A) (KV-29SL42K)

Size AA (R6) batteries (2)

Optional Accessories

Dipole antenna

Connecting cables VMC-810S/820S, VMC-720M,

YC-15V/30V, RK74A

U/V mixer EAC-66

Design and specifications are subject to change without notice.¹⁾ 1 Vp-p 75 ohms unbalanced, sync negative²⁾ Y: 1Vp-p 75 ohms unbalanced, sync negative.
C: 0.286 Vp-p (Burst signal), 75 ohms³⁾ 500mVrms (100% modulation), impedance:47 kilohms⁴⁾ More than 408 mVrms at the maximum volume setting
(variable) More than 408 mVrms (fix), Impedance: 5 kilohms**● 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 SRS Labs, Inc.

BBE and BBE symbol are trademarks of BBE Sound, Inc. and are licensed by BBE Sound, Inc. under U.S. Patent No. 4,638,258 and 4,482,866.

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WARNINGS AND CAUTIONS

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 Δ 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 RESQUE 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 A LA SECURITE!!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MARQUE Δ SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMERO DE PIECE EST INDIQUE DANS LE PRESENT MANUEL OU DANS DES SUPPLEMENTS PUBLIES PAR SONY. LES REGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRESENT MANUEL. SUIVRE CES PROCEDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT SUSPECTE.

SELF-DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

Diagnostic Test Indicators

When an error occurs, the STANDBY/TIMER LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas.

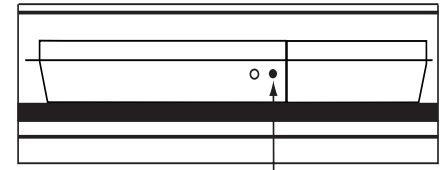
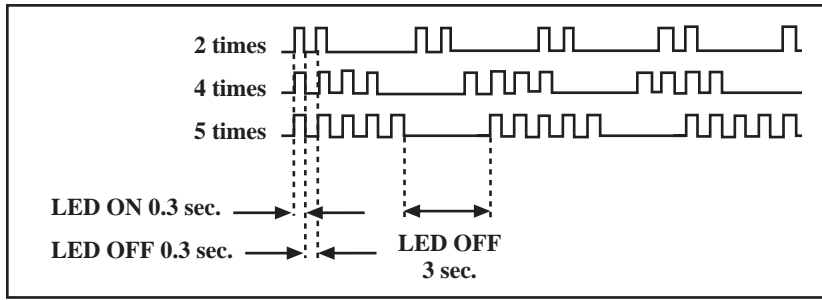
Results for all of the following diagnostic items are displayed on screen. No error has occurred if the screen displays a "0".

Diagnostic Item Description	No. of Times STANDBY/TIMER LED Flashes	Self-diagnostic Display/ Diagnostic Result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light	_____	<ul style="list-style-type: none"> • Power cord is not plugged in. • Fuse F5050 is burned out (E board). 	<ul style="list-style-type: none"> • Power does not come on. • No power is supplied to the TV. • AC power supply is faulty.
+B overcurrent (OCP)*	2 times	2:0 or 2:1	<ul style="list-style-type: none"> • H.OUT (Q502) is shorted (A Board) • IC1751 (C board) or IC 1701(CV Board) are shorted. 	<ul style="list-style-type: none"> • Power does not come on. • Load on power line is shorted.
Vertical deflection stopped*	4 times	4:0 or 4:1	<ul style="list-style-type: none"> • +13V is not supplied. (A Board) • IC541 is faulty. (A Board) 	<ul style="list-style-type: none"> • Has entered standby state after horizontal raster. • Vertical deflection pulse is stopped. • Power line is shorted or power supply is stopped.
White balance failure (not balanced)	5 times	5:0 or 5:1	<ul style="list-style-type: none"> • Video OUT (Q306 to 308) is faulty. (A Board) • IC301 is faulty. (A Board) • Screen (G2) is improperly adjusted.** 	<ul style="list-style-type: none"> • No raster is generated. • CRT cathode current detection reference pulse output is small.

* If a +B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously. The symptom that is diagnosed first by the microcontroller is displayed on the screen.

** Refer to Screen (G2) Adjustments in Section 3-4 of this manual.

Display of Standby/Timer LED Flash Count



STANDBY/TIMER LED

<u>Diagnostic Item</u>	<u>Flash Count*</u>
+B overcurrent	2 times
Vertical deflection stopped	4 times
White balance failure	5 times

*One flash count is not used for self-diagnostic.

Stopping the Standby/Timer LED Flash

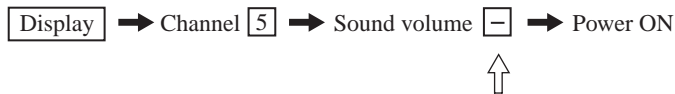
Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER LED from flashing.

Self-Diagnostic Screen Display

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurrences of failure on the screen for confirmation.

To Bring Up Screen Test

In standby mode, press buttons on the Remote Commander sequentially, in rapid succession, as shown below:



Note that this differs from entering the service mode (sound volume (+)).

Self Diagnostic Screen Display

SELF DIAGNOSTIC		
2:		0
3:	N/A	0
4:		0
5:		1
101:	N/A	0

← Numeral “0” means that no fault was detected.

← Numeral “1” means a fault was detected one time only.

Handling of Self-diagnostic Screen Display

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to "0".

Unless the result display is cleared to "0", the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

Clearing the Result Display

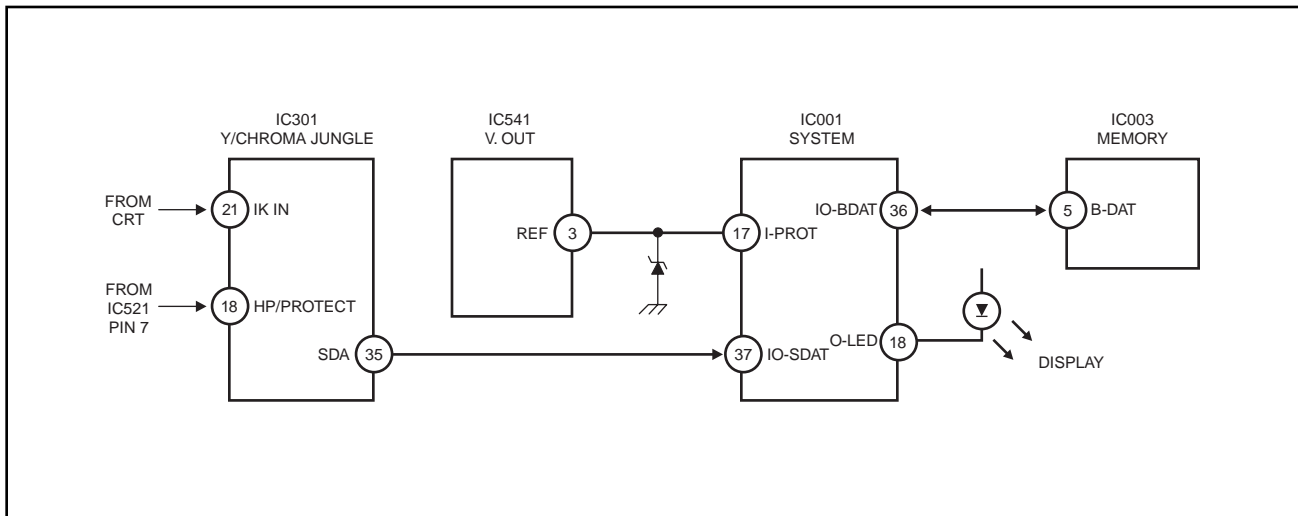
To clear the result display to "0", press buttons on the Remote Commander sequentially when the diagnostic screen is displayed, as shown below:

Channel **8** → **ENTER**

Quitting the Self-Diagnostic Screen

To quit the entire self-diagnostic screen, turn off the power switch on the Remote Commander or the main unit.

Self-diagnostic Circuit



+B overcurrent (OCP)

Occurs when an overcurrent on the +B (115V) line is detected by pin 18 of IC301. If the voltage of pin 18 of IC301 is less than 1V when V.SYNC is more than seven verticals in a period, the unit will automatically turn off.

Vertical deflection stopped

Occurs when an absence of the vertical deflection pulse is detected by pin 17 of IC001. Power supply will shut down when waveform interval exceeds 2 seconds.

White balance failure

If the RGB levels* do not balance within 2 seconds after the power is turned on, this error will be detected by IC301. TV will stay on, but there will be no picture.

*(Refers to the RGB levels of the AKB detection Ref pulse that detects 1K.)

SAFETY CHECK-OUT

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 touching high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampere). 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 instructions.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63Trd are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

How to Find a Good Earth Ground

A cold-water pipe is a 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- to 100-watt 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 on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

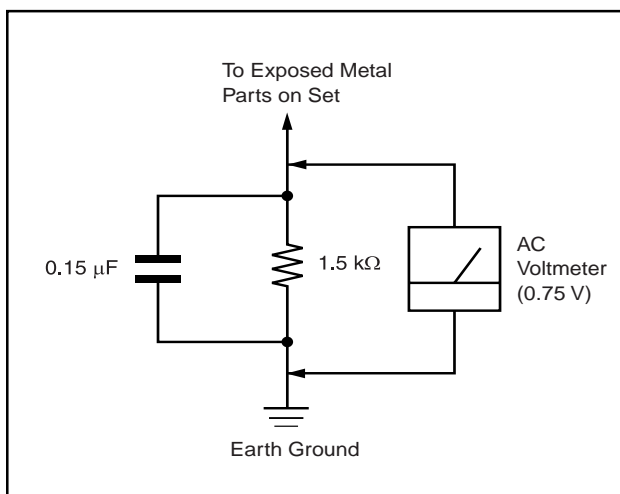


Figure A. Using an AC voltmeter to check AC leakage.

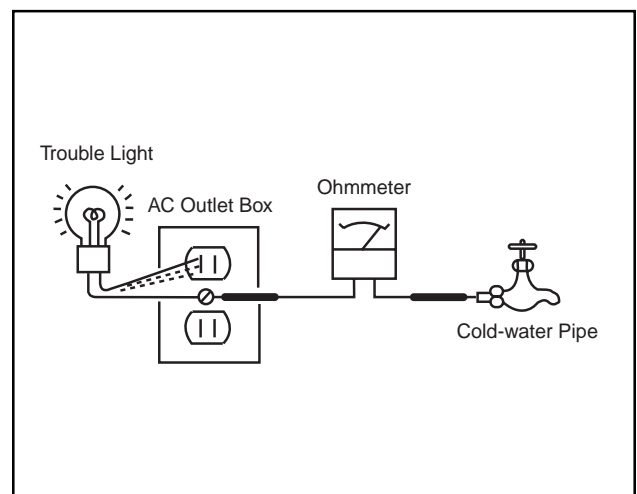


Figure B. Checking for earth ground.

SECTION 1 GENERAL

The following are partial abstracts from the Operating Instruction Manual. The page numbers shown reflect those of the Operating Instruction Manual.

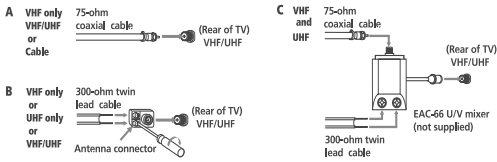
Connecting Your TV

This section covers basic connections in addition to any optional equipment you may be connecting.

Basic Connections

TV with indoor or outdoor antenna, or CATV cable

Depending on the cable available in your home, choose one of the connections below:

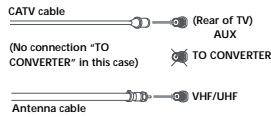


If you are connecting to an indoor or outdoor antenna, it will be necessary to adjust the orientation of the antenna for best reception.

Cable and antenna

KV-27S66, 27V66 only

If your cable provider does not feature local channels, you may find this set up convenient.



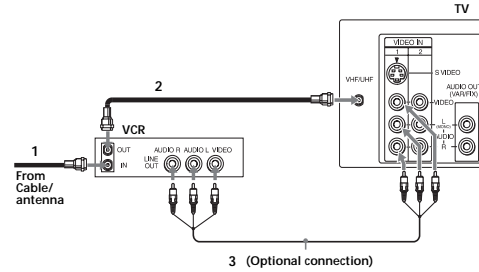
Select CABLE or ANT mode by pressing **ANT** on the remote control.

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User Guide

Connecting Additional Equipment

TV and VCR



VCR must be connected and turned on to operate PIP. (KV-27S46 only)

- 1 Connect the coaxial cable from your TV antenna or cable TV to the IN jack on your VCR.
- 2 Connect a coaxial cable (not supplied) from the OUT jack on your VCR to the VHF/UHF IN jack on the TV.

To watch video programs from your VCR, tune your TV to channel 3 or 4 (as set on the rear of your VCR).

(Optional connection)

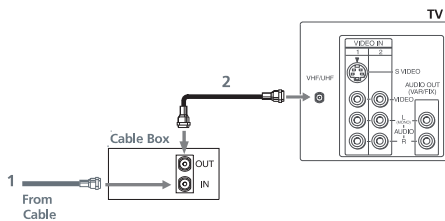
- 3 If your VCR is equipped with video inputs, for better picture quality you should connect A/V cables to AUDIO and VIDEO OUT on your VCR to AUDIO/VIDEO IN on your TV. You can use the **TV/VIDEO** button to switch between the TV and VCR inputs.

For optimum picture quality, use S VIDEO instead of the yellow A/V cable. S VIDEO does not provide sound, the audio cables must still be connected.

4

Connecting Your TV

TV and Cable Box



- 1 Connect the coaxial cable from the wall to the IN jack on your cable box.
- 2 Connect a coaxial cable (not supplied) from the OUT jack on your cable box to the VHF/UHF IN jack on the TV.

To view channels from your cable box, tune your TV to channel 3 or 4 (as set on the rear panel of your cable box).

If you will be controlling all channel selection through your cable box, you should consider using the CHANNEL FIX feature on page 24.

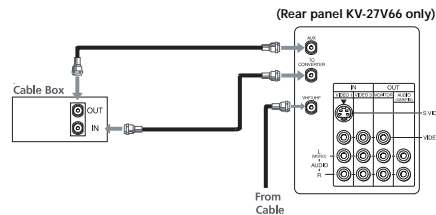
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User Guide

TV, Cable box and Cable

KV-27S66, 27V66 only

For this set up, you can switch between scrambled channels (through your cable box), and normal (CATV) channels by pressing **ANT** on your remote control.

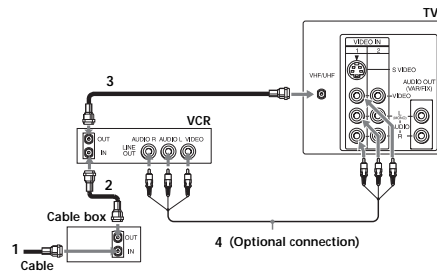


When using PIP, the AUX input cannot be viewed in the window picture.

6

Connecting Your TV

TV, VCR, and Cable box



- 1 Connect the coaxial cable from the wall to the IN jack on your cable box.
- 2 Connect a coaxial cable (not supplied) from the OUT jack on your cable box to the IN jack on your VCR.
- 3 Connect a coaxial cable (not supplied) from the OUT jack on your VCR to the VHF/UHF IN jack on the TV.

If you will be controlling all channel selection through your cable box, you should consider using the CHANNEL FIX feature on page 24.

(Optional connection)

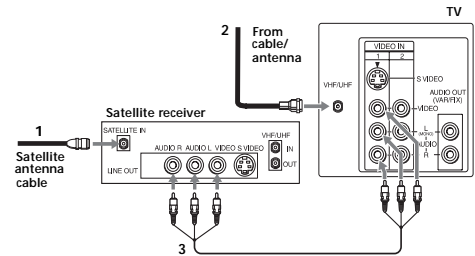
- 4 If your VCR is equipped with video inputs, for better picture quality you should connect A/V cables to AUDIO and VIDEO OUT on your VCR to AUDIO/VIDEO IN on your TV. You can use the **TVVIDEO** button to switch between the TV and VCR inputs.

For optimum picture quality, use S VIDEO instead of the yellow A/V cable. S VIDEO does not provide sound, the audio cables must still be connected.

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User Guide

TV and Digital Satellite Receiver



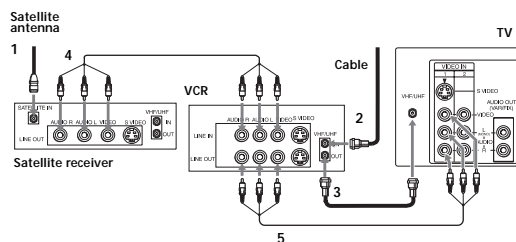
- 1 Connect the cable from your satellite antenna to SATELLITE IN on the satellite receiver.
- 2 Attach the coaxial connector from your cable or antenna to VHF/UHF IN on your TV.
- 3 Using A/V connectors, connect AUDIO and VIDEO OUT on your satellite receiver to AUDIO and VIDEO IN on your TV. You can use the **TVVIDEO** button to switch between the satellite receiver and the TV.

For optimum picture quality, use S VIDEO instead of the yellow A/V cable. S VIDEO does not provide sound, your audio connectors must still be connected.

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Connecting Your TV

TV, Digital Satellite Receiver and VCR



- 1 Connect the cable from your satellite antenna to SATELLITE IN on the satellite receiver.
- 2 Attach the coaxial connector from your cable or antenna to VHF/UHF IN on your VCR.
- 3 Using a coaxial cable, connect VHF/UHF OUT on your VCR to VHF/UHF IN on your TV.
- 4 Using A/V connectors, connect AUDIO and VIDEO OUT on your satellite receiver to AUDIO and VIDEO IN on your VCR.
- 5 Using A/V connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV.

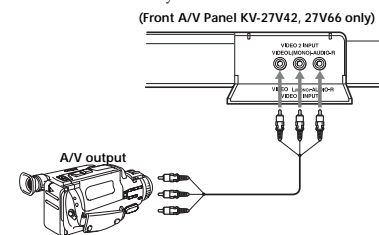
To view from the satellite or VCR, select the video input to which your satellite receiver or VCR is connected by pressing **TVVIDEO** on the remote control.

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User Guide

Connecting a Camcorder

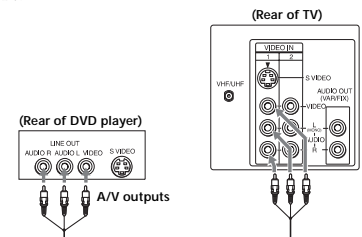
Using A/V cables, connect AUDIO and VIDEO OUT on your camcorder to AUDIO and VIDEO IN on your TV.



Connection can also be made to the rear A/V panel of your TV.

Connecting a DVD Player

Using A/V connectors, connect LINE OUT on your DVD to VIDEO IN on your TV.

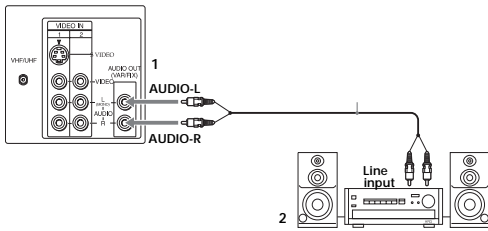


For optimum picture quality, use S VIDEO instead of the yellow A/V cable. S VIDEO does not provide sound, your audio connectors must still be connected.

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Connecting an audio system

Using audio connectors, connect AUDIO OUT on your TV to one of the unused line inputs (e.g. TV, AUX, TAPE 2) on your stereo.



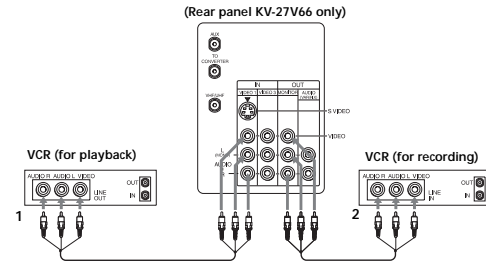
Set your stereo to the chosen line input. (See page 20 for additional audio setup instructions.)

11

Connecting two VCRs for Tape Editing

KV-27V42, 27V66 only

MONITOR OUT gives you the ability to use a second VCR to record a program being played by the primary VCR to perform tape editing.



- 1 Connect the VCR intended for playback using the setup instructions on page 4 of this manual.
- 2 Using A/V connectors, connect AUDIO and VIDEO IN on your VCR intended for recording to MONITOR AUDIO and VIDEO OUT on your TV.

To perform tape editing: set the TV to the video input intended for playback by pressing TV/VIDEO on the remote control.

12

Troubleshooting

If you are having a problem with your TV, try the suggestions below. If the problem persists, contact your nearest Sony dealer.

Cannot operate single tuner PIP (KV-27S46)	<ul style="list-style-type: none"> <input type="checkbox"/> Make sure the VCR is connected correctly (see page 4). <input type="checkbox"/> Check to see if the VCR is on. <input type="checkbox"/> Make sure your remote control is programmed to operate your VCR (see page 31).
No picture, no sound	<ul style="list-style-type: none"> <input type="checkbox"/> Make sure the power cord is plugged in. <input type="checkbox"/> If a red light is flashing on the front of your TV for more than a few minutes, call your local service center. <input type="checkbox"/> Check the TV/VIDEO settings: when watching TV, set to TV; when watching video equipment, set to VIDEO (page 19). <input type="checkbox"/> Make sure the batteries have been inserted correctly into the remote control. <input type="checkbox"/> Check your PARENTAL CONTROL settings (pages 28-29). <input type="checkbox"/> Try another channel, it could be station trouble.
Poor or no picture, good sound	<ul style="list-style-type: none"> <input type="checkbox"/> Adjust PICTURE in the VIDEO menu (page 19). <input type="checkbox"/> Adjust BRIGHTNESS in the VIDEO menu (page 19). <input type="checkbox"/> Check the antenna and/or cable connections (page 3).
Good picture, no sound	<ul style="list-style-type: none"> <input type="checkbox"/> Press MUTE so that MUTING disappears from the screen (page 13). <input type="checkbox"/> Check your AUDIO settings. Your TV may be set to SAP (page 21).
No color	<ul style="list-style-type: none"> <input type="checkbox"/> Adjust COLOR in the VIDEO menu (page 19).
Only snow appears on the screen	<ul style="list-style-type: none"> <input type="checkbox"/> Check the CABLE setting in the CHANNEL SET UP menu (page 24). <input type="checkbox"/> Check the antenna and/or cable connections (page 3). <input type="checkbox"/> Make sure the channel selected is currently broadcasting. <input type="checkbox"/> Press the ANT button on the remote control.

34

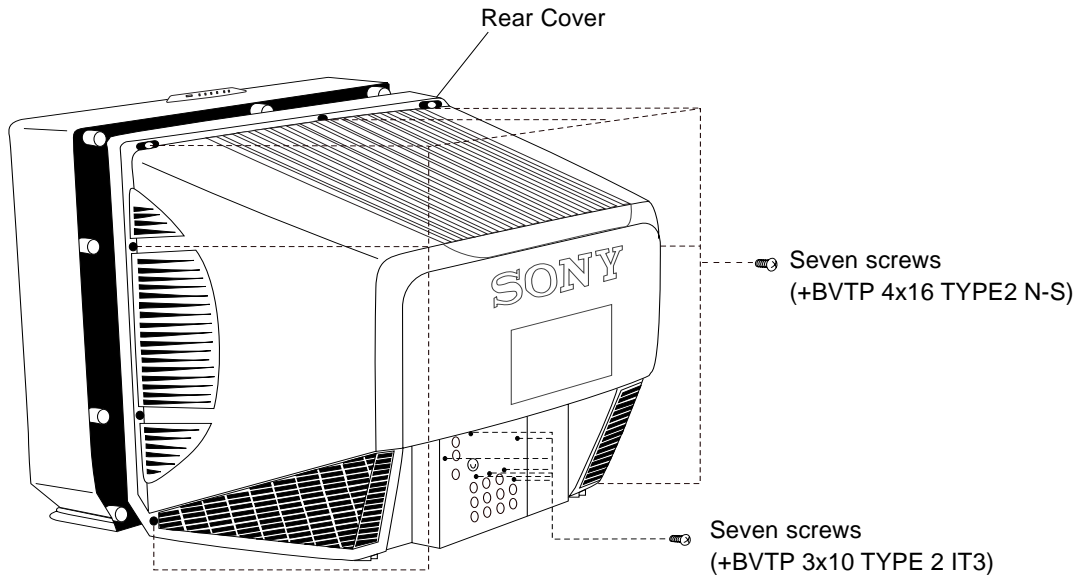
Dotted lines or stripes	<ul style="list-style-type: none"> <input type="checkbox"/> Adjust the antenna. <input type="checkbox"/> Move the TV away from other electronic equipment. Some electronic equipment can create electrical noise, which can interfere with TV reception.
Double images or ghosts	<ul style="list-style-type: none"> <input type="checkbox"/> Check your outdoor antenna or call your cable service.
Cannot receive higher number channels (UHF) when using an antenna	<ul style="list-style-type: none"> <input type="checkbox"/> Make sure CABLE is set to OFF in the CHANNEL SET UP menu (page 24). <input type="checkbox"/> Use AUTO PROGRAM to add channels that are not presently in the memory (page 24).
Cable stations don't seem to work	<ul style="list-style-type: none"> <input type="checkbox"/> Make sure CABLE is set to ON in the CHANNEL SET UP menu (page 24). <input type="checkbox"/> Use AUTO PROGRAM to add channels that are not presently in the memory (page 24).
Remote Control does not operate	<ul style="list-style-type: none"> <input type="checkbox"/> Batteries could be weak. Replace them (page 2). <input type="checkbox"/> Move the TV 3-4 feet away from fluorescent lights.
The TV needs to be cleaned	<ul style="list-style-type: none"> <input type="checkbox"/> Clean the TV with a soft dry cloth. Never use strong solvents such as thinner or benzine, which might damage the finish of the cabinet.
Lost password for PARENTAL CONTROL	<ul style="list-style-type: none"> <input type="checkbox"/> In the password screen, enter the following master password: 4357. After using the master password, you must create a new password, it cannot be used to unlock currently blocked channels.

If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Direct Response Center at 1-800-222-SONY (7669) (U.S. residents only) or (416) 499-SONY (7669) (Canadian residents only).

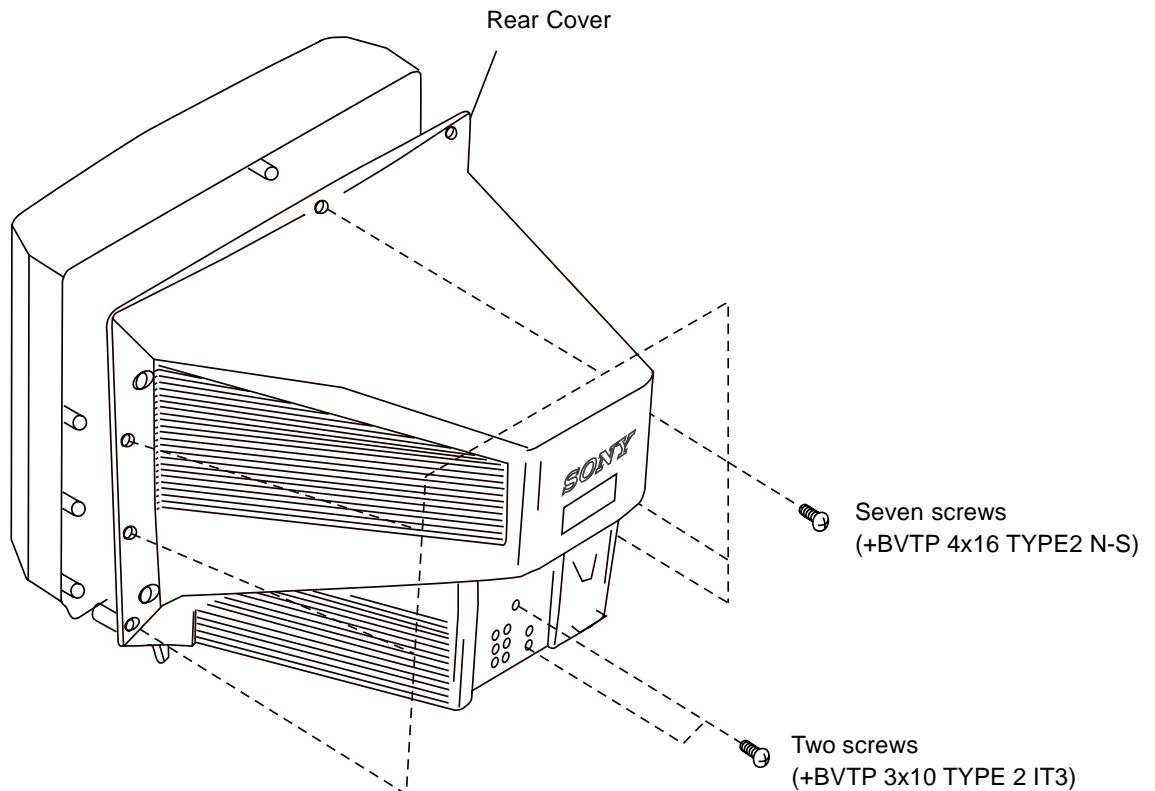
35

SECTION 2 DISASSEMBLY

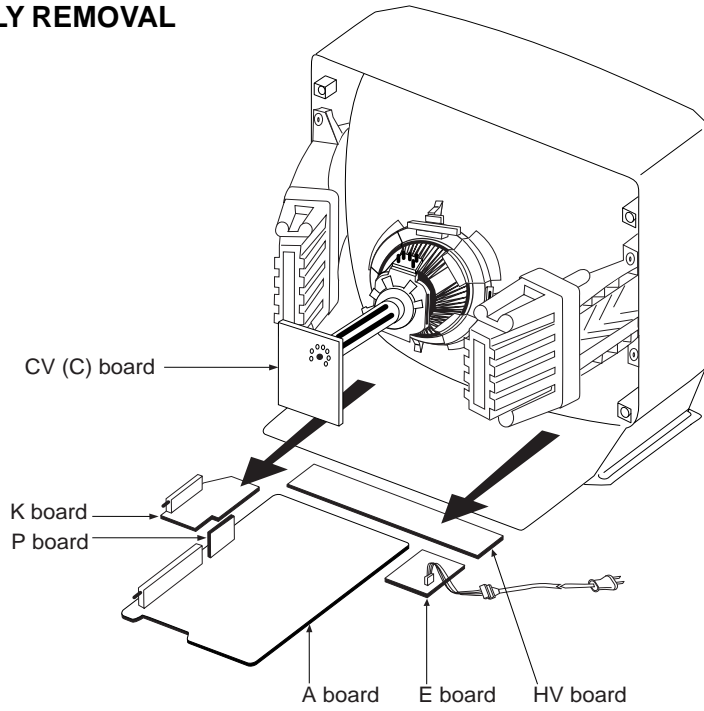
2-1. REAR COVER REMOVAL (KV-27V42/66/29VL42T)



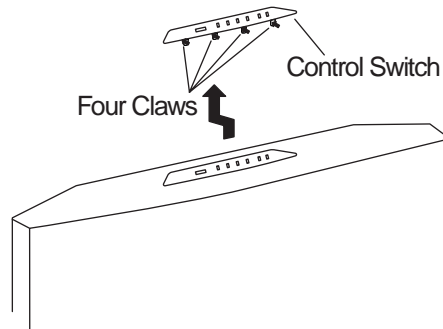
2-2. REAR COVER REMOVAL (KV-29SL42K/42T/29XL42T)



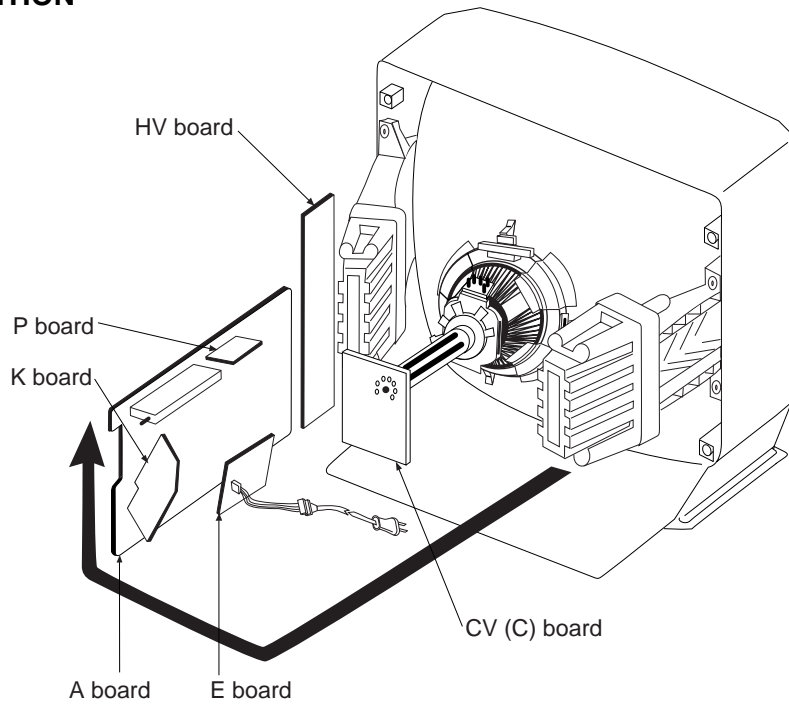
2-3. CHASSIS ASSEMBLY REMOVAL



2-4. CONTROL SWITCH REMOVAL (KV-27V42/66/29VL42T)



2-5. SERVICE POSITION

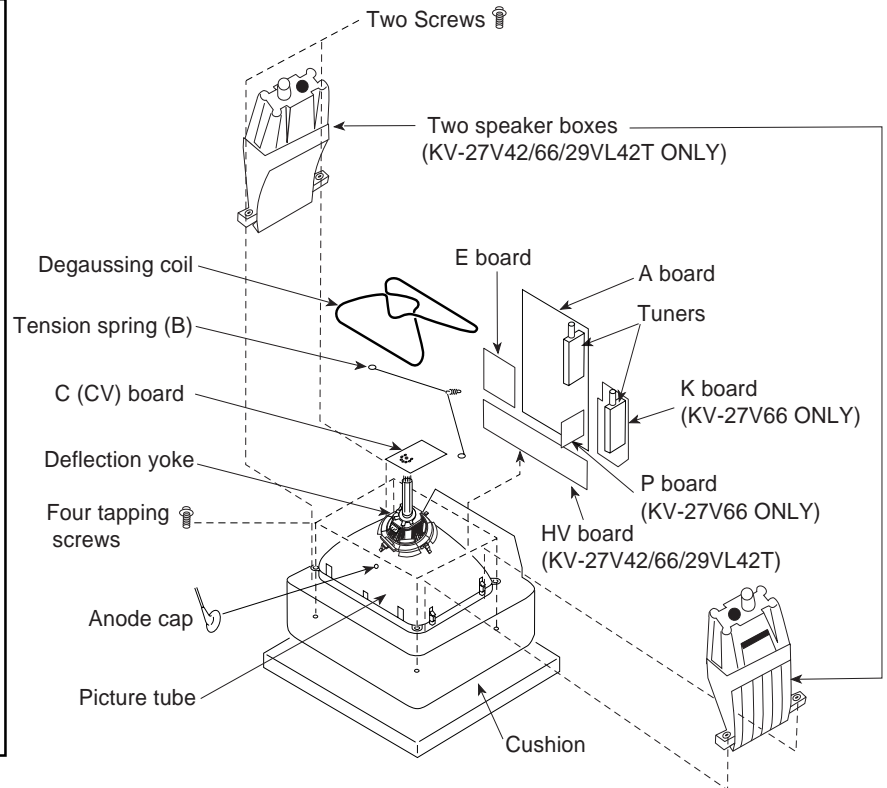
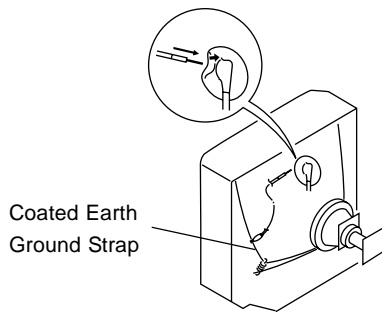


2-6. PICTURE TUBE REMOVAL

WARNING: BEFORE REMOVING THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected.

To avoid electric shock, discharge CRT *before* attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.

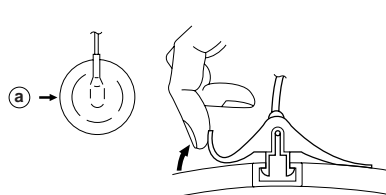


ANODE CAP REMOVAL

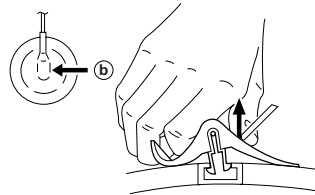
WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electrical shock, discharge the CRT *before* attempting to remove the anode cap. Short between anode and coated earth ground strap of CRT.

NOTE: After removing the anode, short circuit the anode of the picture tube and the anode cap to either the metal chassis, CRT shield, or carbon painted on the CRT.

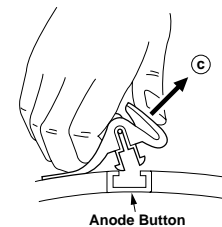
REMOVAL PROCEDURES



- ① Turn up one side of the rubber cap in the direction indicated by arrow (a).



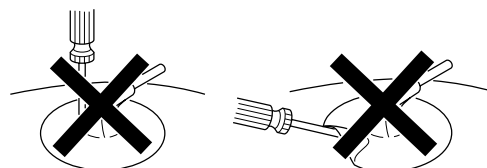
- ② Use your thumb to pull the rubber cap firmly in the direction indicated by arrow (b).



- ③ When one side of the rubber cap separates from the anode button, the anode cap can be removed by turning the rubber cap and pulling it in the direction of arrow (c).

HOW TO HANDLE AN ANODE CAP

- ① Do not use sharp objects which may cause damage to the surface of the anode cap.
- ② To avoid damaging the anode cap, do not squeeze the rubber covering too hard. A material fitting called a shatter-hook terminal is built into the rubber.
- ③ Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.



SECTION 3 SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or when a new picture tube is installed.

These adjustments should be performed with rated power supply voltage unless otherwise noted.

Set the controls and switch as follows unless otherwise noted.

PICTURE control..... Normal
BRIGHTNESS control..... Normal

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G2)
5. White Balance

Note: Test equipment required:

- Color bar pattern generator
- Degausser
- DC power supply
- Digital multimeter

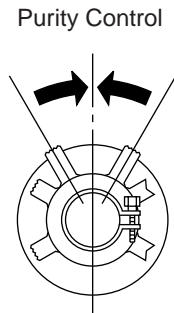
3-1. BEAM LANDING

Before beginning adjustment procedure:

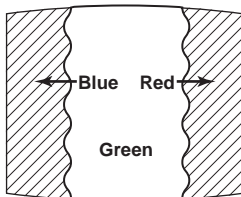
1. Degauss the entire screen.
2. Feed in the white pattern signal.

Adjustment Procedure

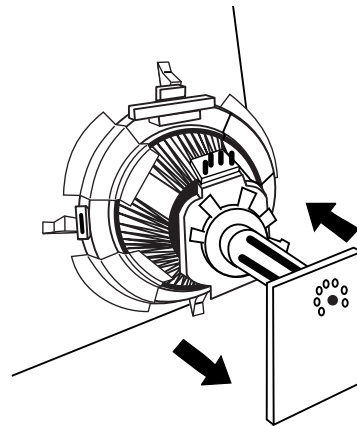
1. Input a raster signal with the pattern generator.
2. Loosen the deflection yoke mounting screw and set the purity control to the center as shown below.



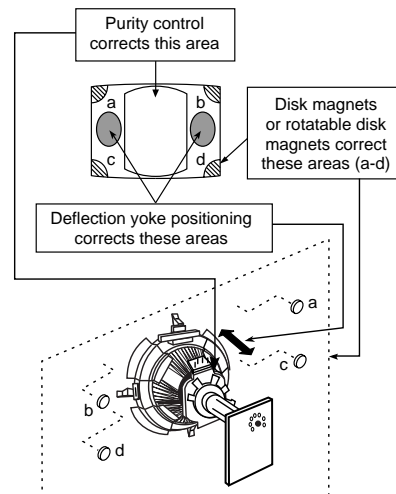
3. Turn the raster signal of the pattern generator to green.
4. Move the deflection yoke backward and adjust the purity control so that green is in the center and red and blue are at the sides evenly.



5. Move the deflection yoke forward and adjust so that the entire screen becomes green.



6. Switch over the raster signal to red and blue then confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
8. If landing at the corner is not right, adjust by using the disk magnets.



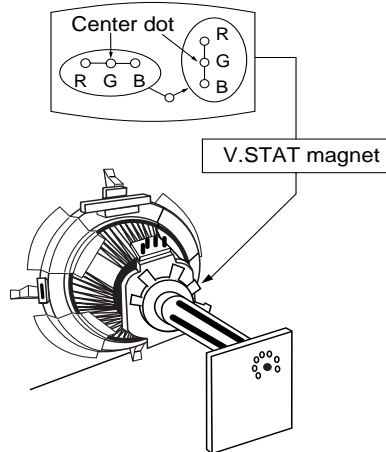
3-2. CONVERGENCE

Before starting convergence adjustments:

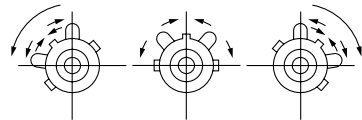
1. Perform FOCUS, V.LIN AND V.SIZE adjustments.
2. Set BRIGHTNESS control to minimum.
3. Feed in dot pattern.

Vertical Static Convergence

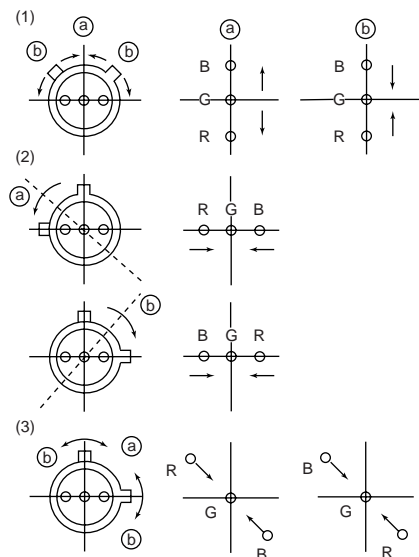
1. Adjust V.STAT magnet to converge red, green and blue dots in the center of the screen (vertical movement).



2. Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.

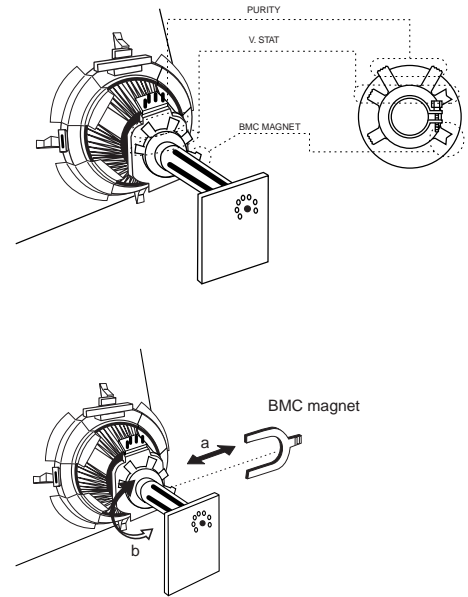


When the V.STAT magnet is moved in the direction of arrows (a) and (b), red, green, and blue dots move as shown below:



If the blue dot does not converge with the red and green dots, perform the following:

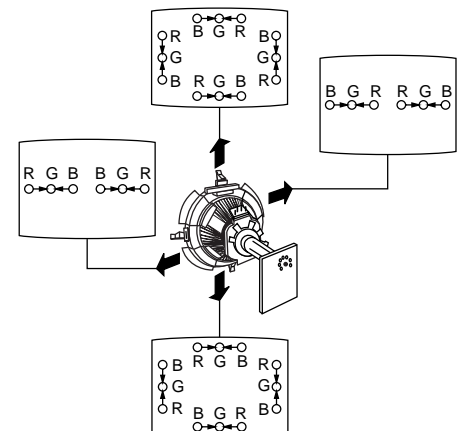
1. Move BMC magnet (a) to correct insufficient H. Static convergence.
2. Rotate BMC magnet (b) to correct insufficient V. Static convergence.
3. In either case, repeat Beam Landing Adjustment.



Dynamic Convergence Adjustment

Before performing this adjustment, perform Horizontal and Vertical Static Convergence Adjustment.

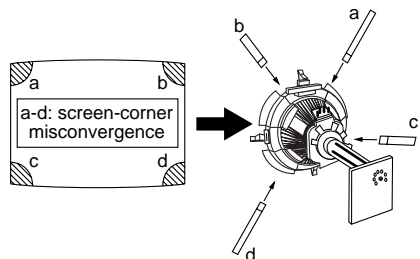
1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence, as shown below:



4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.

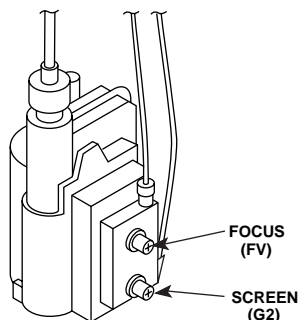
Screen-Corner Convergence

1. Affix a permalloy assembly corresponding to the misconverged areas.



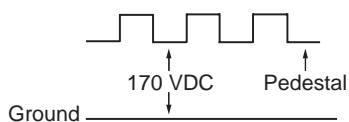
3-3. FOCUS

1. Adjust FOCUS control for best picture.



3-4. SCREEN (G2)

1. Input a dots pattern.
2. Set the PICTURE and BRIGHTNESS controls at minimum and COLOR control at normal.
3. Adjust SBRT, GCUT, BCUT in service mode with an oscilloscope as shown below so that voltages on the red, green, and blue cathodes are 170 VDC.



4. Observe the screen and adjust SCREEN (G2) VR on the FBT to obtain the faintly visible background of dot signal.

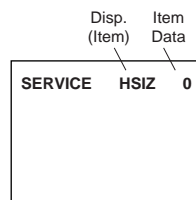
3-5. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

Service Mode Procedure

1. Standby mode (power off).
2. [Display] → Channel [5] → Sound volume [+] → Power ON on the Remote Commander (press each button within a second).

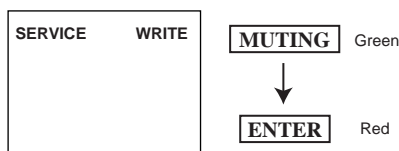
Activating Service Adjustment Mode

1. The CRT displays the item being adjusted.



2. Press [1] or [4] on the Remote Commander to select the item.
3. Press [3] or [6] on the Remote Commander to change the data.
4. Press [MUTING] then [ENTER] to save into the memory.

Service Adjustment Mode Memory



Turn set off then on to exit service adjustment mode.

3-6. WHITE BALANCE ADJUSTMENTS

1. Input an entire white signal.
2. Set to Service Adjustment Mode.
3. Set DCOL to "0".
4. Set the PICTURE and BRIGHTNESS to minimum.
5. Adjust with SBRT if necessary.
6. Select GCUT and BCUT with [1] and [4].
7. Adjust with [3] and [6] for the best white balance.
8. Set PICTURE and BRIGHTNESS to maximum.
9. Select GDRV and BDRV with [1] and [4].
10. Adjust with [3] and [6] for the best white balance.
11. Reset DCOL to "1".
12. To write into memory, press [MUTING] then [ENTER].

SECTION 4 SAFETY RELATED ADJUSTMENTS

4-1. ☒ R584 CONFIRMATION METHOD (HV HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components which are marked with ☒ on the schematic diagram.

DY, C511, C573, C574, C575, D572, D573, D574, R582, R583, R585, R586, R578, R625, R626, T504, IC301, IC521, IC602, C507, C508, C505, C509, C515, C520, L591, L501

Preparation Before Confirmation

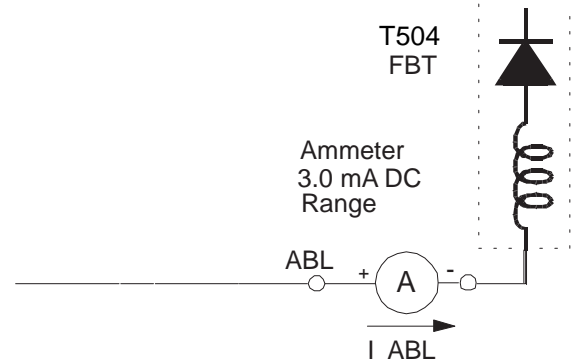
1. Using a Variac, apply AC input voltage: 120 ± 2 VAC (or $120-220 \pm 2$ VAC for KV-29SL42K).
2. Turn the POWER switch ON.
3. Input an entirely white signal and set the PICTURE and BRIGHTNESS controls to maximum.
4. Confirm that the voltage between C574 (+) or TP503 and ground is more than 105 VDC.

Hold-down Operation Confirmation

1. Connect the current meter between Pin 11 of the FBT (T504) and the PCB land where Pin 11 would normally attach. (See Figure 1 on the following page.)
2. Input a dot signal and set PICTURE and BRIGHTNESS to minimum: $IABL = 100 + 100/-95\mu A$.
3. Confirm the voltage of A Board TP-600 is 135 ± 3 VDC.
4. Connect the digital voltmeter and the DC power supply via diode 1SS119 to C574 (+) and ground. (See Figure 1 on the following page.)
5. Increase the DC power voltage gradually until the picture blanks out.
6. Read the digital voltmeter indication. (standard: less than or equal to 141.3 VDC).
7. Turn DC power source off immediately
8. Input a white signal and set PICTURE and BRIGHTNESS to maximum.
9. Repeat steps 4 to 7.

Hold-down Readjustment

If the setting indicated in step 2 of Hold-down Operation Confirmation cannot be met, readjustment should be performed by altering the resistance value of R584, a component marked with ☒.



4-2. B+ VOLTAGE CONFIRMATION AND ADJUSTMENT

Note: The following adjustments should always be performed when replacing the following components, which are marked with ☒ on the schematic diagram.

IC601, IC602

1. Using a Variac, apply AC input voltage: 130 ± 2 VAC (or $120-220 \pm 2$ VAC for KV-29SL42K).
2. Input a dot signal.
3. Set the PICTURE and BRIGHTNESS controls to minimum.
4. Set to Service Adjustment Mode.
5. Select PADJ with and .
6. Adjust with to the 0 level.
7. Confirm the voltage of A board TP-600 is less than 138 VDC.
8. If step 7 is not satisfied, replace the components and repeat the above steps.
9. Supply 120 ± 2 VAC (or $120-220 \pm 2$ VAC for KV-29SL42K) to the set with a variable auto transformer.
10. Adjust with and for 135 ± 3 VDC.
11. Press then to save into the memory.

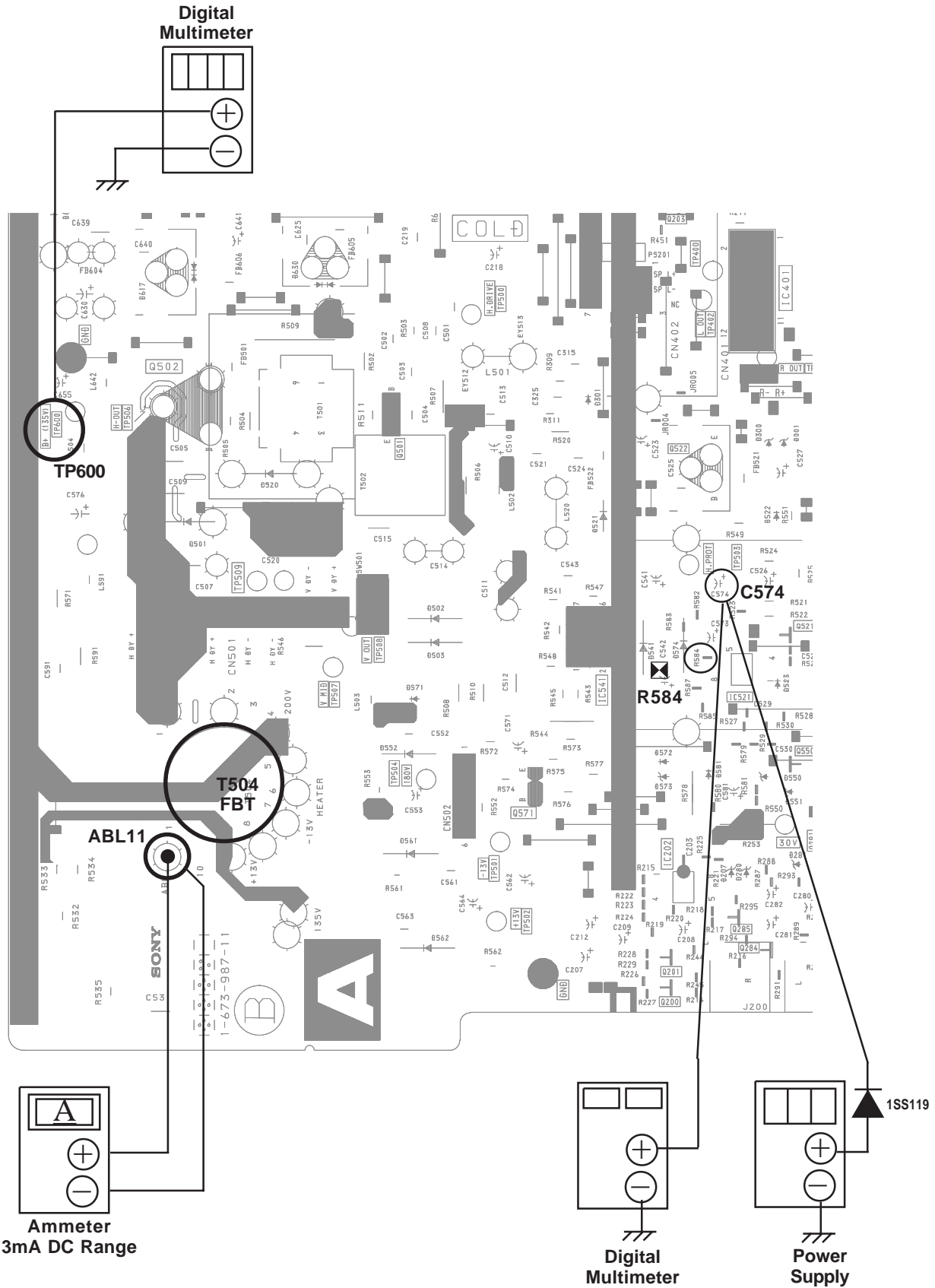


Figure 1

SECTION 5 CIRCUIT ADJUSTMENTS

Electrical Adjustment by Remote Commander

Use the Remote Commander (RM-Y165, RM-Y167 or RM-Y149A) to perform the circuit adjustments in this section.

NOTE: Test Equipment Required:

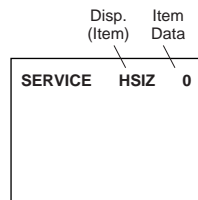
- Pattern generator
- Frequency counter
- Digital multimeter
- Audio oscillator

5-1. Setting the Service Adjustment Mode

- Standby mode (power off).
- Display** → Channel **5** → Sound volume **+** → Power ON
on the Remote Commander (press each button within a second).

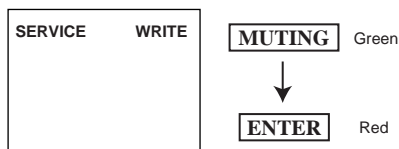
Service Adjustment Mode On

- The CRT displays the item being adjusted.

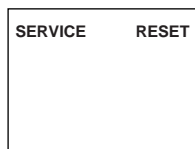


- Press **1** or **4** on the Remote Commander to select an item.
- Press **3** or **6** on the Remote Commander to change the data.
- Press **MUTING** then **ENTER** to save into the memory.

Service Adjustment Mode Memory



- Press **8** then **ENTER** on the Remote Commander to initialize.



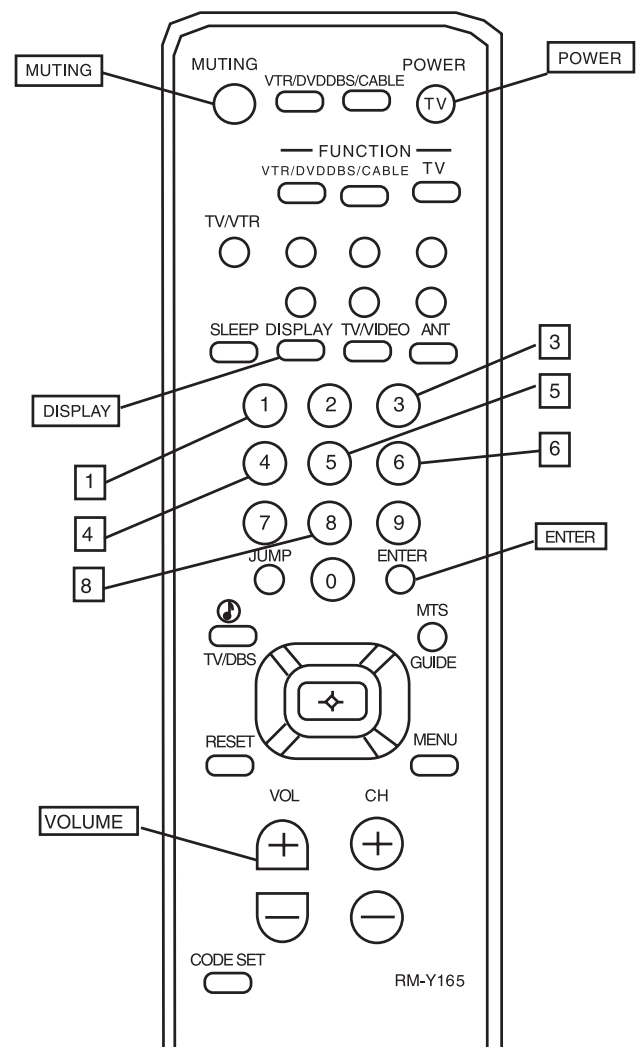
Carry out step 1 when adjusting IDs 0-4 and when replacing and adjusting IC003.

- Turn set off then on to exit service adjustment mode.

5-2. Memory Write Confirmation Method

- After adjustment, remove the power plug from the AC outlet, then plug it in again.
- Turn the power switch ON and set to service mode.
- Call the adjusted items again to confirm they were adjusted.

5-3. Adjust Buttons and Indicators



RM-Y165

Adjustment Items

Item	Service Name	Name	Data Range	Initial Value	Average Data
1	HSIZ	A_HSIZE	0-63	31	42
2	HPOS	A_HPOS	0-63	31	22
3	VBOW	A_AFCB	0-15	7	6
4	VANG	A_AFCB	0-15	7	6
5	TRAP	A_TRAP	0-15	7	7
6	PAMP	A_PAMP	0-63	31	16
7	CPIN	A_CPIN	0-63	31	34
8	VSIZ	A_VSIZ	0-63	31	33
9	VPOS	A_VPOS	0-63	31	38
10	VLIN	A_SCOR	0-15	7	6
11	SCOR	A_SCOR	0-15	7	7
12	VZOM	A_SCROLL	0-1	0	0
13	EHT	A_TRAP	0-15	7	4
14	ASP	A_ASPECT	0-63	63	48
15	SCRL	A_SCROLL	0-63	31	31
16	HBLK	A_ASPECT	0-1	0	1
17	LBLK	A_HBLK	0-15	7	15
18	RBLK	A_HBLK	0-15	7	3
19	VUSN	A_ASPECT	0-1	0	0
20	HDW	A_PON	0-1	0	0
21	EWDC	A_HSIZE	0-1	0	0
22	LVLN	A_VLIN	0-15	0	0
23	UVLN	A_VLIN	0-15	0	0
24	RDRV	A_RDRIVE	0-63	31	14
25	GDRV	A_GDRIVE	0-63	31	10
26	BDRV	A_BDRIVE	0-63	31	8
27	RCUT	A_RCUT	0-15	7	8
28	GCUT	A_G CUT	0-15	7	4
29	BCUT	A_G CUT	0-15	7	5
30	DCOL	A_GDRIVE	0-1	0	1
31	SHUE	A1_SUBHUE	0-31	14	9
32	SCOL	A1_SUBCOL	0-31	14	23
33	SBRT	A1_SUBBRT	0-31	14	10
34	RON	A_VIDSEL	0-1	0	1
35	GON	A_VIDSEL	0-1	0	1
36	BON	A_VIDSEL	0-1	0	1
37	AXPL	A_PON	0-1	0	0
38	AXNT	A_SHPF0	0-1	0	0
39	CBPF	A_XTAL	0-1	0	1
40	CTRP	A_XTAL	0-1	0	1
41	COFF	A_COFF	0-1	0	0
42	KOFF	A_COFF	0-1	0	0
43	SSHP	A1_SUBSHP	0-15	8	6
44	SHPF	A_SHPF0	0-1	0 / 0 *2	1
45	PREL	A_DCTRAN	0-1	0	1
46	Y-DC	A_DCTRAN	0-1	0	1
47	GAMM	A_BDRIVE	0-3	0	0
48	ABLM	A_RDRIVE	0-1	1	1
49	VTH	A_RDRIVE	0-1	0	1
50	YDEL	A_HOSC	0-15	7	7
51	NCOL	A_PIC	0-1	0	1
52	FSC	A_PIC	0-1	0	1
53	K-ID	A_KID	0-1	0	0
54	HOSC	A_HOSC	0-15	7	7
55	VSS	A_FFREQ	0-1	0	0
56	HSS	A_FFREQ	0-1	0	0
57	HMSK	A_VSIZ	0-1	0	1
58	VTMS	A_TVOFF	0-3	0	0
59	CDMD	A_FFREQ	0-3	0 / 1 *2	0
60	AFC	A_VPOS	0-3	0 / 0 *2	0
61	FIFR	A_FFREQ	0-3	0	3

Item	Service Name	Name	Data Range	Initial Value	Average Data
62	SBAS		0-15	7	8
63	STRE		0-15	7	9
64	SBAL	A1_SUBBAL	0-31	14	13
65	DISP	A_OSDPOS	0-127	0	11
66	PADJ	A_PADJ	0-63	3	51
67	HCHM	A6_HCHM	0-255	69	69
68	HCLM	A6_HCLM	0-255	16	16
69	HCHS		0-255	69	69
70	HCLS		0-255	16	16
71	PFRN		0-1	0	0
72	PRVS		0-1	0	0
73	PCON		0-127	32	70
74	PUCO		0-127	75	63
75	PVCO		0-127	40	63
76	PHUE		0-31	15	15
77	PKIL		0-1	0	0
78	PSEP		0-3	2	2
79	PDCO		0-3	0	0
80	PEXP		0-3	2	2
81	PBGS		0-63	14	14
82	PYDL		0-15	3	7
83	PBRT		0-31	0	25
84	PVPE		0-16	0	0
85	PUPE		0-16	0	0
86	PACS		0-1	0	1
87	PSDL		0-3	0	0
88	PMVP		0-3	0	0
89	PCGA		0-1	0	1
90	PBIT		0-1	0	0
91	PAFC		0-1	0	0
92	PACC		0-63	21	20
93	PBUR		0-1	0	0
94	PEVE		0-1	0	0
95	PINW		0-1	0	0
96	PINR		0-1	0	0
97	PREF		0-1	0	0
98	PARE		0-1	1	1
99	PAVE		0-1	0	0
100	PFRA		0-15	0	0
101	PPAL		0-255	0	0
102	PHPO		0-31	31	2
103	PVPO		0-31	21	22
104	PHTI		0-15	10	10
105	PHAJ		0-15	2	2
106	PBGY		0-15	0	0
107	PCRO		0-1	0	0
108	PPAR		0-63	2	2
109	PHPF		0-1	0	1
110	PVCH		0-1	0	0
111	PVON		0-1	0	1
112	PVLN		0-31	17	17
113	PVSB		0-255	64	64
114	PVLV		0-255	130	130
115	ID0	A_NVMI0	0-255	23	See ID map
116	ID1	A_NVMI1	0-255	3	See ID map
117	ID2	A_NVMI2	0-255	11	See ID map
118	ID3	A_NVMI3	0-255	1	See ID map
119	ID4	A_NVMI4	0-255	23	See ID map
120	ID5	A_NVMI5	0-255	0	See ID map
121	ID6	A6_NVMI6	0-255	0	See ID map
122	ID7	A6_NVMI7	0-255	64	See ID map

*2: TV/VIDEO

Notes:

No. 1–122 show the order that each adjustment mode may be selected while in service mode.

Data Range shows the range of possible settings for each adjustment mode.

Initial Data shows the standard settings for each adjustment mode.

SERVICE	ID0	25

Feature ID Map

MODEL	DEST.	ID-0	ID-1	ID-2	ID-3	ID-4	ID-5	ID-6	ID-7
KV-27V42	US	25	151	175	234	11	3	0	64
KV-27V66	US	25	151	237	234	11	3	7	64
KV-27V66	CND	89	151	237	154	11	3	7	64
KV-29SL42K	KOREA	137	145	15	203	27	3	0	64
KV-29SL42T	TAIWAN	9	145	15	203	27	3	0	64
KV-29VL42T	TAIWAN	9	151	175	202	27	3	0	64
KV-29XL42T	TAIWAN	9	145	15	203	27	3	0	64

5-4. A BOARD ADJUSTMENTS

H. Frequency Adjustment

1. Input a monoscope signal.
2. Set to Service Adjustment Mode.
3. Connect a frequency counter to base of Q501 (TP-500 H. DRIVE).
4. Select the item of AFC, set to 3 level (free run).
5. Check H. Frequency for the 15735 ± 200 Hz.
6. Select the AFC item again and adjust level to 0.
7. Press **MUTING** then **ENTER** to save into the memory.

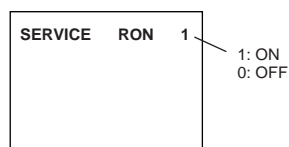
V. Frequency Adjustment

1. Select video 1 with no signal input.
2. Set the conditions for a standard setting.
3. Connect the frequency counter across TP-508 or CN501 VDY (+) pin **6** connector and ground.
4. Check that V. Frequency shows 60 ± 4 Hz.

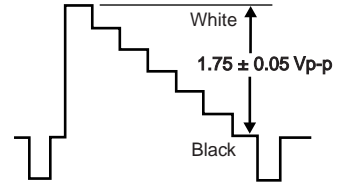
Sub Contrast Adjustment (RDRV)

1. Input a color-bar signal.
2. Set the red color.
3. Set to Service Adjustment Mode.
4. Select the item DCOL level to 0.
5. Set the conditions as follows:

PICTURE: MAX
 COLOR: MIN
 BRIGHT: CENTER
 R ON: ON (1)
 G ON: OFF (0)
 B ON: OFF (0)



6. Connect an oscilloscope probe to CN301 pin **5** (R OUT) and ground.
7. Select RDRV with **1** and **4**.
8. Adjust with **3** and **6** for 1.75 ± 0.05 Vp-p

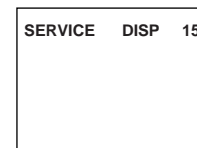


9. Reset the item DCOL to 1.
10. Return the following back to normal after adjustment.
11. Press **MUTING** then **ENTER** to save into the memory.

PICTURE: MAX
 COLOR: CENTER
 BRIGHT: CENTER
 R ON: ON (1)
 G ON: ON (1)
 B ON: ON (1)

Display Position Adjustment (DISP)

1. Input a color-bar signal.
2. Set to Service Adjustment Mode.
3. Select DISP with **1** and **4**.
4. Adjust with **3** and **6** to adjust characters to the center.
5. Press **MUTING** then **ENTER** to save into the memory.
6. Check to see if the text is displayed on the screen.

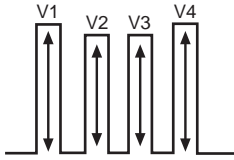


Sub Bright Adjustment (SBRT)

1. Input a crosshatch signal.
2. Set to Service Adjustment Mode.
3. Set the PICTURE and BRIGHTNESS to minimum.
4. Select the SBRT item with **1** and **4**.
5. Adjust with **3** and **6** to obtain a faintly visible crosshatch.
6. Press **MUTING** then **ENTER** to save into the memory.

Sub Hue, Sub Color Adjustment (SHUE, SCOL)

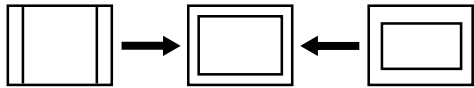
1. Input a color-bar signal.
2. Set to Service Adjustment Mode.
3. Select the DCOL item and set the value to 0.
4. Connect an oscilloscope probe to CN702 Pin ⑤ (BLUE OUT) of the C Board and ground.
5. Select SHUE and SCOL with [1] and [4] .
6. Adjust with [3] and [6] for the $V1 = V4 \pm 0.15$ Vp-p (SCOL) and $V2 = V3 \pm 0.15$ Vp-p (SHUE).



7. Reset the DCOL level to 1.
8. Press [MUTING] then [ENTER] to save into memory.

V. Size Adjustment (VSIZ)

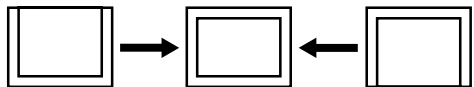
1. Input a crosshatch signal.
2. Set to Service Adjustment Mode.
3. Select the VSIZ item with [1] and [4] .
4. Adjust value of VPOS with [3] and [6] for the best vertical center.



5. Press [MUTING] then [ENTER] to save into the memory.

V. Center Adjustment (VPOS)

1. Input a crosshatch signal.
2. Set to Service Adjustment Mode.
3. Select the VPOS item with [1] and [4] .
4. Adjust value of VPOS with [3] and [6] for the best vertical center.

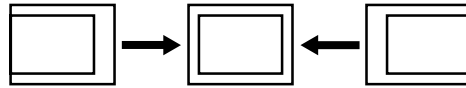


5. Press [MUTING] then [ENTER] to save into the memory.

H. Center Adjustment (HPOS)

Perform this adjustment after checking H. Frequency.

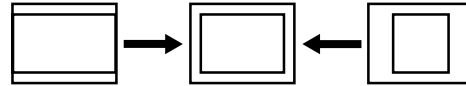
1. Input a crosshatch signal.
2. Set to Service Adjustment Mode.
3. Select the HPOS item with [1] and [4] .
4. Adjust the value of HPOS with [3] and [6] for the best horizontal center.



5. Press [MUTING] then [ENTER] to save into the memory.

H. Size Adjustment (HSIZ)

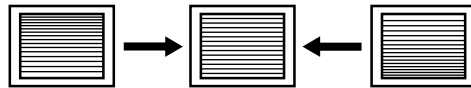
1. Input a crosshatch signal.
2. Set to Service Adjustment Mode.
3. Select HSIZ with [1] and [4] .
4. Adjust with [3] and [6] for the best horizontal size.
5. Press [MUTING] then [ENTER] to save into the memory.



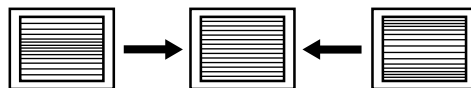
V. Linearity (VLIN), V Correction

1. Input a crosshatch signal.
2. V. correction is automatically adjusted from the circuit and should satisfy the conditions below.

V LINEARITY (VLIN)



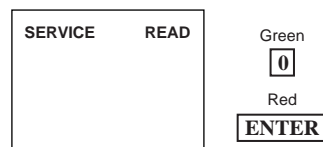
V CORRECTION

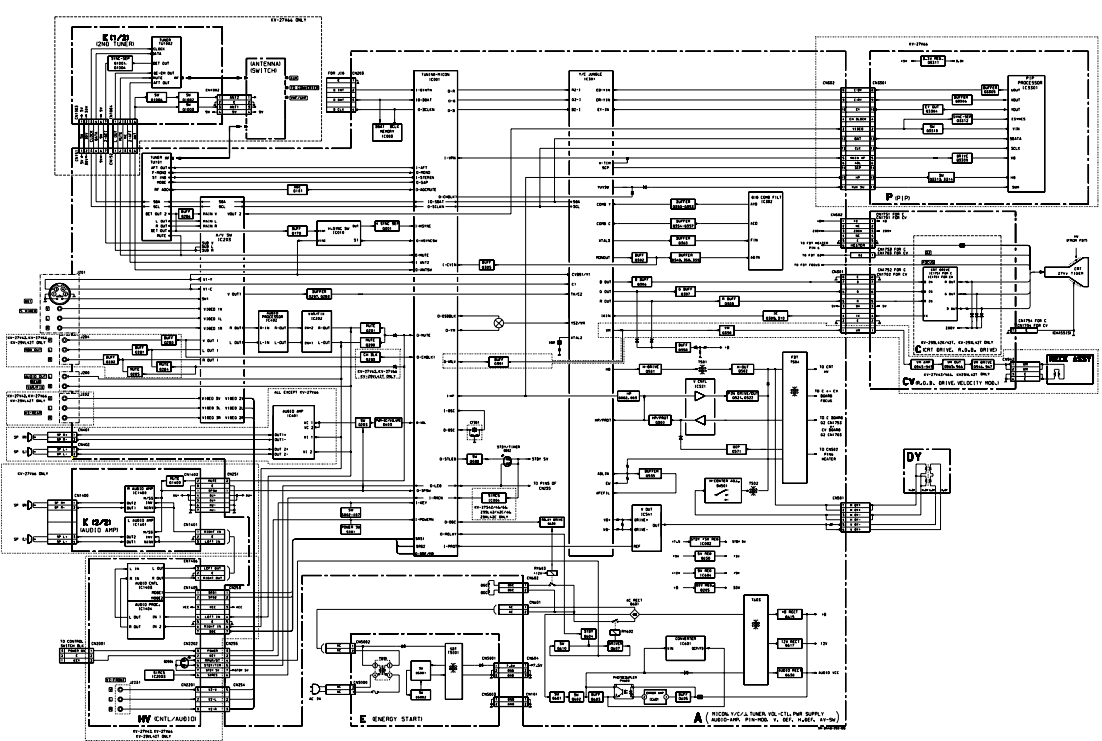


Service Adjustment Mode Memory

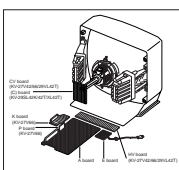
1. Change the value of the DCOL item to 1.
2. After completing all adjustments, press [0] then [ENTER] .

Read From Memory





6-2. CIRCUIT BOARD LOCATIONS



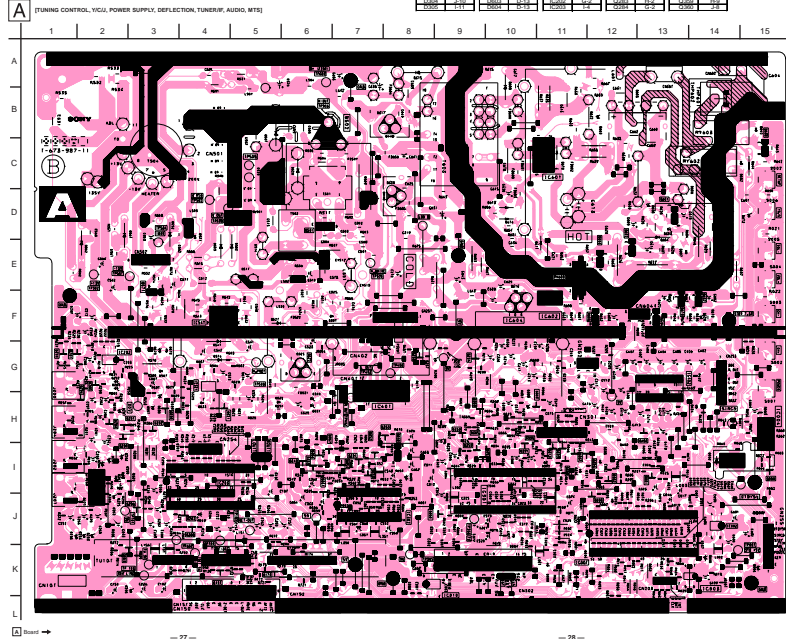
- When replacing parts shown in the table below, be sure to perform the related adjustments.
- All voltages are in Volts.
- Voltage is DC with respect to ground unless otherwise noted.
- Readings are taken with a 1000Ω digital multimeter.
- Readings are taken with a color bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- Circled numbers are waveform references.
- cannot be measured
- B = Line
- L = Line
- Digital path

6-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

- All capacitors are in μF unless otherwise noted.
 - 100 μF/50 V or less are not indicated except for electrolytic and tantalum.
 - All electrolytics are 50V unless otherwise specified.
 - Indication of resistance, which does not have one for rating electrical power, is as follows:
 - Ohm
 - Ohm
 - Ohm
 Rating electrical power 1/4W (CHIP 1/10W)
 - All resistors are in ohms.
 - Ω = 1000Ω □ Ω = 10000Ω
 - □ nonflammable resistor
 - □ flammable resistor
 - □ internal component
 - □ panel degradation and adjustment for repair
 - □ earth-ground
 - □ earth-chassis
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 - The components identified by **EE** in this manual have been quality factory selected for each use in order to satisfy regulators regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
 - When replacing components identified by **Δ**, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by **Δ** and repeat the adjustment until the specified value is achieved (refer to Safety Related Adjustments on page 17).
- Reference Information**
- | RESISTOR | RES | METAL FILM |
|-----------|---------------------------|---------------------------|
| | RC | SOLID |
| | PF | NON-FLAMMABLE CARBON |
| | FUSE | NON-FLAMMABLE FUSIBLE |
| | RF | NON-FLAMMABLE RESISTOR |
| | RS | NON-FLAMMABLE METAL OXIDE |
| | RE | NON-FLAMMABLE CERAMIC |
| | ADJ | ADJUSTMENT RESISTOR |
| | RF | RESISTOR INDICATOR |
| CAPACITOR | TC | TANTALUM |
| | PC <td>STYRENE</td> | STYRENE |
| | PP <td>POLYPROPYLENE</td> | POLYPROPYLENE |
| | PE <td>POLYETHYLENE</td> | POLYETHYLENE |
| | MPS | METALLIZED POLYESTER |
| | MPP | METALLIZED POLYPROPYLENE |
| | AL | ALUMINUM |
| | ALH | HIGH TEMPERATURE |
| | ALP | HIGH PULSE |
- Note:**
- The components identified by shading and **Δ** mark are critical for safety. Replace only with the part number specified.
 - The symbol **EE** displayed on component side of the circuit board indicates fast operating fuse. Replace only with fuse of the same rating as marked.
 - Use components identified per un trans et une marque **Δ** some critiques pour la sécurité. Ne les remplacer que par une pièce portant la marque spécifiée.
 - Le symbole **EE** indique une fusible à action rapide. Ne les remplacer que par une fusible de même puissance, même marque.

ABOARD LOCATION LIST

Table with columns for REF. NO., LOC., and component values for various parts like resistors, capacitors, and ICs.

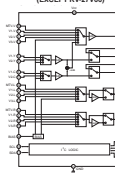


A BOARD (*) MARK VARIANT LIST

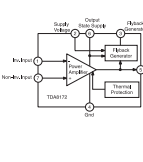
Table with columns for REF. NO., LOC., and variant codes (KV-36L64K, KV-36L47T, etc.) for various components.

Table with columns for REF. NO., LOC., and variant codes (KV-36L64K, KV-36L47T, etc.) for various components.

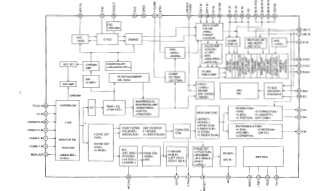
A BOARD: IC203 MM3114D (EXCEPT KV-2746)



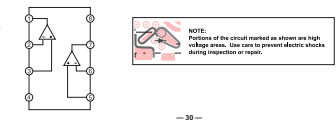
A BOARD: IC541 TDA817Z



A BOARD: IC301 CXA2061S



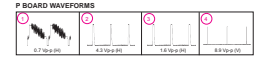
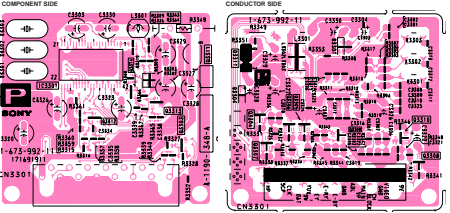
A BOARD: IC521 NM4558M-TE2



NOTE: Portions of the circuit marked as shown are high voltage areas. Use care to prevent electric shocks during inspection or repair.

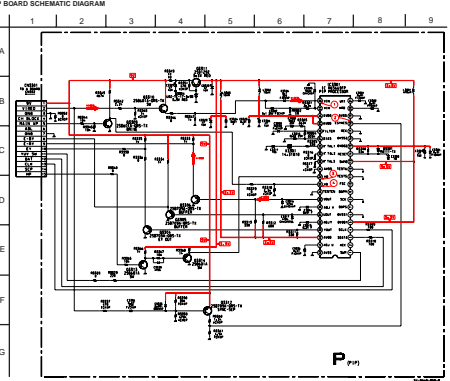
KV-2740Z7V6038S-GK39S4ZT09V4ZT09V4LT

P (P.N. P1)
(KV-2740S ONLY)



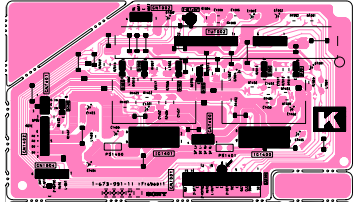
P BOARD TRANSISTOR VOLTAGE LIST

TEST POINT	VOLTAGE	TEST POINT	VOLTAGE
TP1	0V	TP11	0V
TP2	0V	TP12	0V
TP3	0V	TP13	0V
TP4	0V	TP14	0V
TP5	0V	TP15	0V
TP6	0V	TP16	0V
TP7	0V	TP17	0V
TP8	0V	TP18	0V
TP9	0V	TP19	0V
TP10	0V	TP20	0V



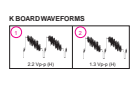
SCHEMATIC DIAGRAMS
P (P.N. P1)

K (END TUNER, AUDIO AMP)
(KV-2740S ONLY)



P BOARD IC VOLTAGE LIST

TEST POINT	VOLTAGE	TEST POINT	VOLTAGE
TP1	0V	TP11	0V
TP2	0V	TP12	0V
TP3	0V	TP13	0V
TP4	0V	TP14	0V
TP5	0V	TP15	0V
TP6	0V	TP16	0V
TP7	0V	TP17	0V
TP8	0V	TP18	0V
TP9	0V	TP19	0V
TP10	0V	TP20	0V

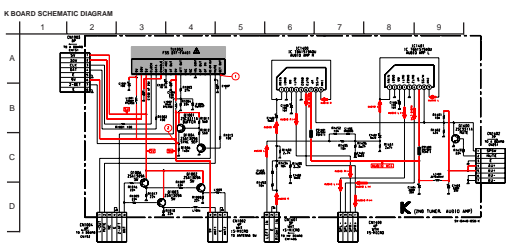


K BOARD TRANSISTOR VOLTAGE LIST

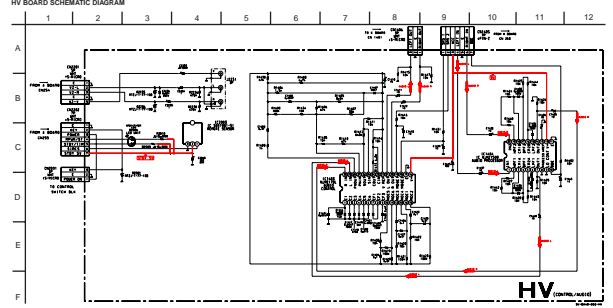
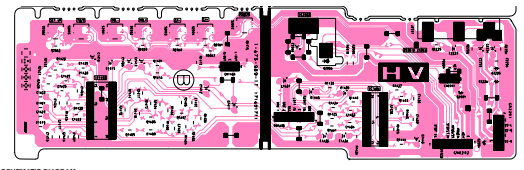
TEST POINT	VOLTAGE	TEST POINT	VOLTAGE
TP1	0V	TP11	0V
TP2	0V	TP12	0V
TP3	0V	TP13	0V
TP4	0V	TP14	0V
TP5	0V	TP15	0V
TP6	0V	TP16	0V
TP7	0V	TP17	0V
TP8	0V	TP18	0V
TP9	0V	TP19	0V
TP10	0V	TP20	0V

K BOARD IC VOLTAGE LIST

TEST POINT	VOLTAGE	TEST POINT	VOLTAGE
TP1	0V	TP11	0V
TP2	0V	TP12	0V
TP3	0V	TP13	0V
TP4	0V	TP14	0V
TP5	0V	TP15	0V
TP6	0V	TP16	0V
TP7	0V	TP17	0V
TP8	0V	TP18	0V
TP9	0V	TP19	0V
TP10	0V	TP20	0V



HV (CONTROL, AUDIO AMP)
(KV-2740Z7V6038V4ZT09V4LT ONLY)

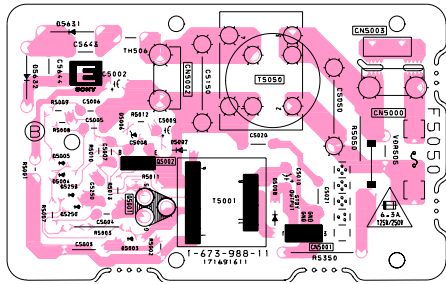


HV BOARD IC VOLTAGE LIST

TEST POINT	VOLTAGE	TEST POINT	VOLTAGE
TP1	0V	TP11	0V
TP2	0V	TP12	0V
TP3	0V	TP13	0V
TP4	0V	TP14	0V
TP5	0V	TP15	0V
TP6	0V	TP16	0V
TP7	0V	TP17	0V
TP8	0V	TP18	0V
TP9	0V	TP19	0V
TP10	0V	TP20	0V

NOTE:
Portions of the circuit marked as shown are high voltage areas. Use care to prevent electric shocks during inspection or repair.

E [ENERGY START]



E BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q5002	0.4	1.5	0.0
Q5001	1.5	0.1	157.6

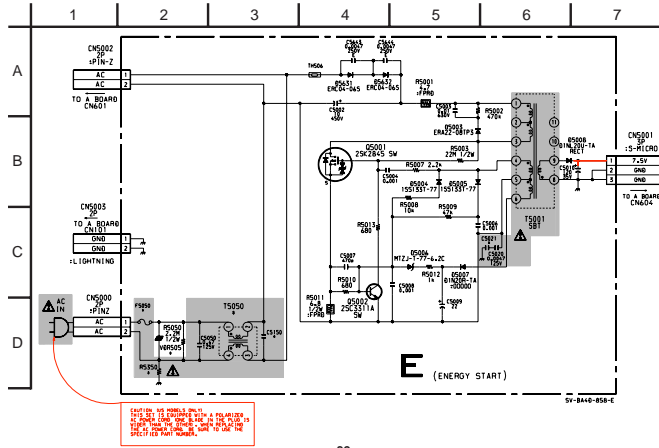
All voltages are in V

E BOARD (*) MARK VARIANT LIST

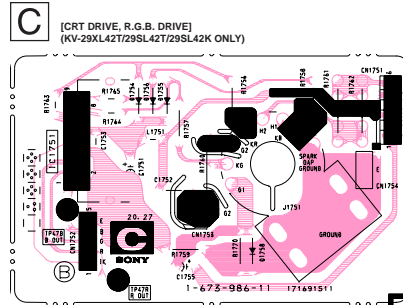
REF. NO.	KV-29SL42K	KV-27V42V66/29SL42T/VL42T/XL42T
CS502	0.0047 125V	JW17 (25MM)
CS150	μ	0.47
FS050	6.3A 250V	6.3A 125V
RS350	8.2M	4.7M
TS050	1-424-220-11	1-426-717-11
VDR505	1-803-587-11	1-803-585-11

*: Not Mounted

E BOARD SCHEMATIC DIAGRAM



C [CRT DRIVE, R.G.B. DRIVE]
(KV-29XL42T/29SL42T/29VL42T/29XL42T)



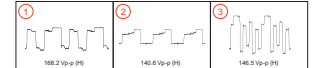
C BOARD IC VOLTAGE LIST

pin	volt
1	2.3
2	2.3
3	2.3
4	GND
5	2.3
6	138.1
7	137.3
8	138.6
9	140.8

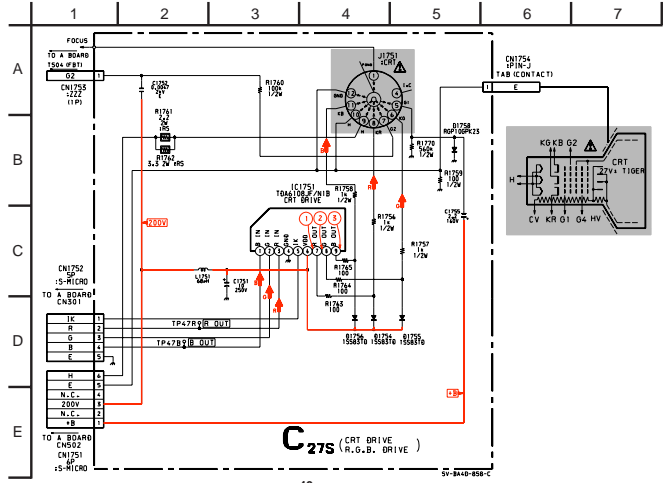
All voltages are in V

NOTE:
Portions of the circuit marked as shown are high voltage areas. Use care to prevent electric shocks during inspection or repair.

C BOARD WAVEFORMS

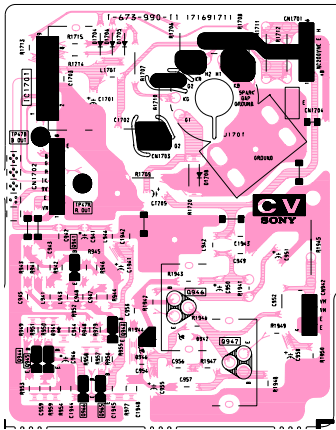


C BOARD SCHEMATIC DIAGRAM

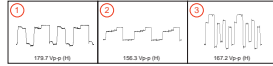


KV-27V42/27V66/29SL42/K29SL42T/29VL42T/29XL42T

CV [CRT DRIVE, R.G.B. DRIVE, VELOCITY MODULATION]
[KV-27V42/27V66/29VL42T ONLY]



CV BOARD WAVEFORMS



NOTE:
Portions of the circuit marked as shown are high voltage areas. Use care to prevent electric shocks during inspection or repair.

CV BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q943	4.5	8.9	3.7
Q944	2.1	8.9	1.5
Q945	2.1	6.0	1.5
Q946	133.2	67.1	134.7
Q947	0.3	67.1	0.3
Q965	6.5	8.9	6.2
Q966	6.0	0.0	6.2

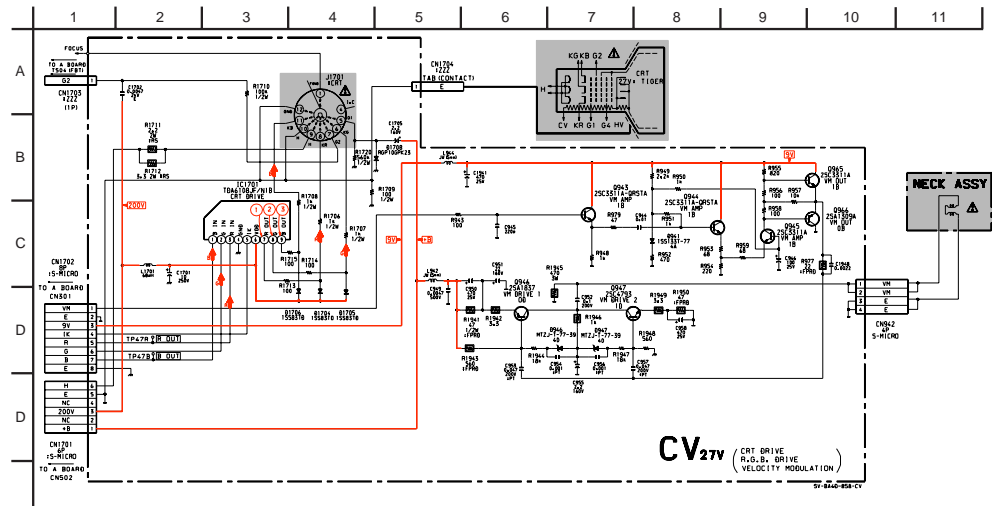
All voltages are in V

CV BOARD IC VOLTAGE LIST

IC1701	pin	volt
	1	2.3
	2	2.3
	3	2.3
	4	GN2
	5	3.7
	6	203.6
	7	129.0
	8	126.0
	9	127.0

All voltages are in V

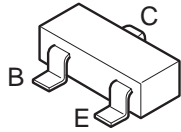
CV BOARD SCHEMATIC DIAGRAM



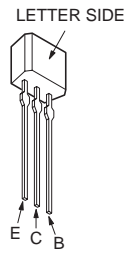
SCHEMATIC DIAGRAMS
← [E] Boards [CV] Board →

6-4. SEMICONDUCTORS

2SA1162-G
2SD601A-Q



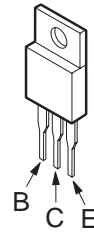
2SD2144S
2SA1175-HFE
2SC2785-HFE
2SA933AS-QT



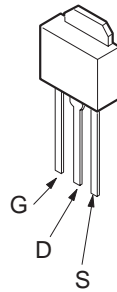
2SC3209LK
2SD1312-K



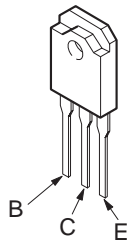
2SC4159-E



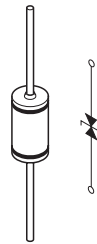
2SK2845-LB102



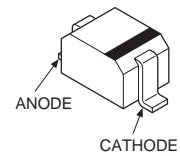
2SC5426-01



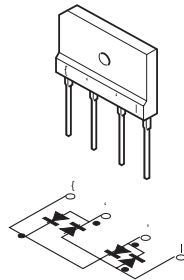
RD9.1EW



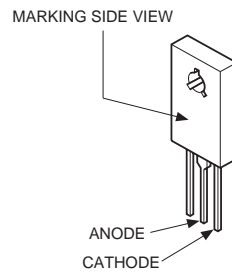
MA111-TX



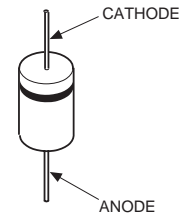
D4SB60L-F



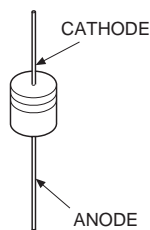
D5LC20U



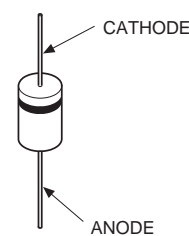
RU4AM-T3



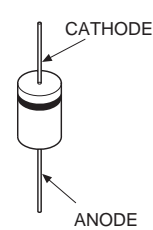
D1N20R
MTZJ-33
MTZJ-30D
MTZJ-5.1C
RD3.3ESB2
RD5.6ESB2
RD8.23SB2
RD10ESB2



U05G
MTZJ-T-77-2.2A
ERA22-08
LNK0120022G
1SS133T-77
ERC06-15S
MDV04-600
RU-1P



D1NL20-U
EGP20G
EL1Z
1SS83
RGP02-17EL
GP08D



SECTION 7 EXPLODED VIEW

- Items with no part number and no description are not stocked because they are seldom required for routine service.

- The component parts of an assembly are indicated by the reference numbers in the remarks column.

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

Note:

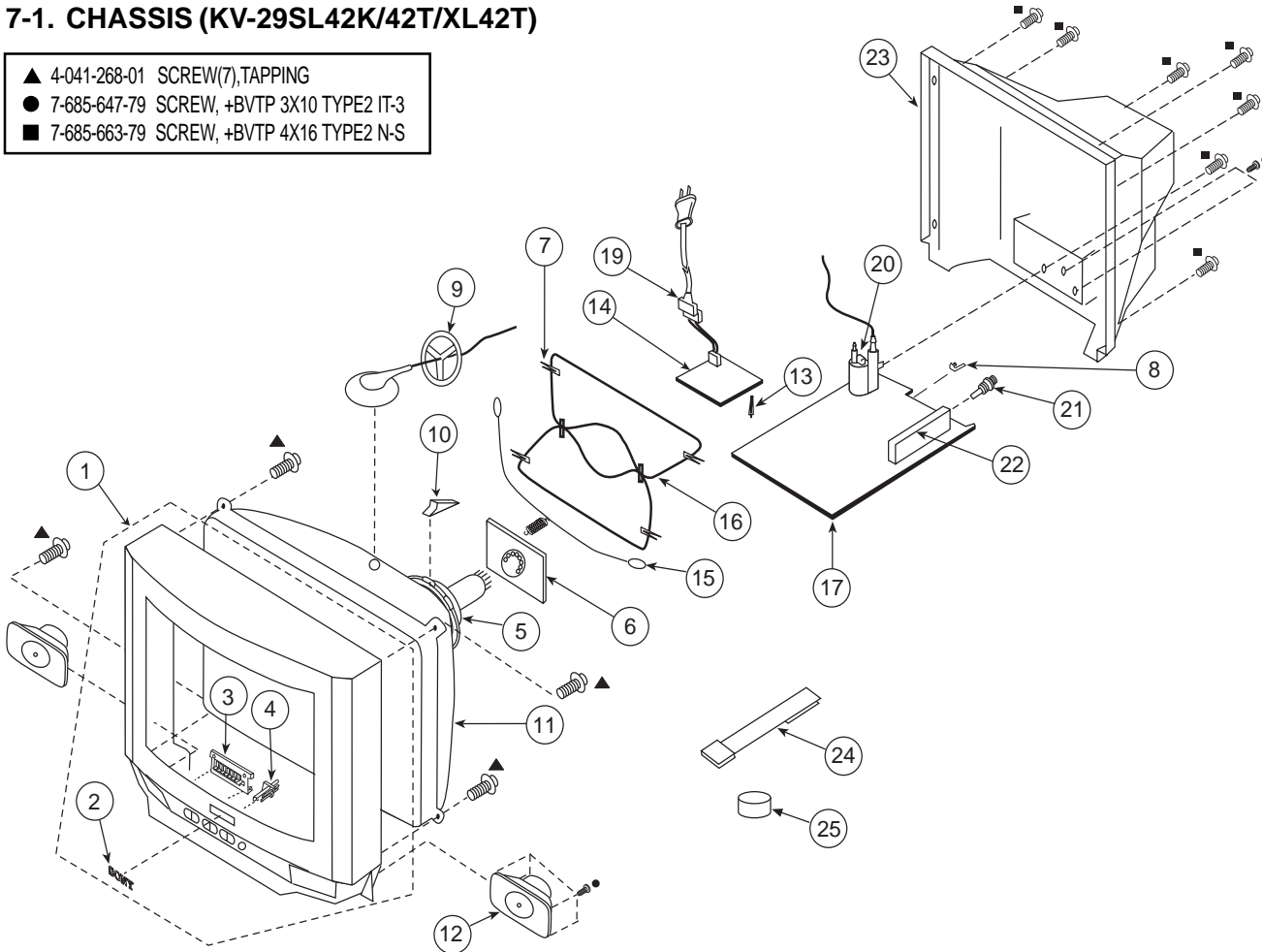
The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Note:

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

7-1. CHASSIS (KV-29SL42K/42T/XL42T)

- ▲ 4-041-268-01 SCREW(7),TAPPING
- 7-685-647-79 SCREW, +BVTP 3X10 TYPE2 IT-3
- 7-685-663-79 SCREW, +BVTP 4X16 TYPE2 N-S



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4035-815-1	BEZNET ASSY (KV-29SL42T/29SL42K)	2-4
1	X-4035-818-1	BEZNET ASSY (KV-29XL42T ONLY)	2-4
2	4-046-160-11	EMBLEM(NO.9), SONY	
3	4-063-573-01	BUTTON, MULTI	
4	* 4-063-570-01	GUIDE, LED	
5	\triangle 8-451-486-21	DY, Y29NXA-V2	
6	* A-1331-920-A	C MOUNTED PC BOARD	
7	4-040-388-01	HOLDER(S), DGC	
8	* 4-064-646-01	CLIP, CHASSIS	
9	3-704-372-31	HOLDER, HV CABLE	
10	4-053-005-01	SPACER, DY	
11	\triangle 8-733-873-05	CRT, 29NX	
12	1-504-531-11	SPEAKER, (13.1X6.2CM)	
13	* 3-703-353-05	SUPPORT, PC BOARD	
14	* A-1343-654-A	E (VAR) MOUNTED PC BOARD (KV-29XL42T/29SL42T)	
14	* A-1343-656-A	E (VAR) MOUNTED PC BOARD (KV-29SL42K ONLY)	

REF. NO.	PART NO.	DESCRIPTION	REMARK
15	4-036-329-01	SPRING(B), TENSION	
16	\triangle 1-416-952-11	COIL, DEGAUSSING (KV-29SL42K ONLY)	
16	\triangle 1-416-918-11	COIL, DEMAGNETIC (KV-29XL42T/29SL42T)	
17	* A-1298-939-A	A COMPLETE PC BOARD (KV-29SL42K ONLY)	
17	* A-1298-940-A	A COMPLETE PC BOARD (KV-29XL42T/29SL42T)	
19	\triangle 1-790-317-21	CORD, AC POWER (WITH CONNECTOR) (KV-29SL42T ONLY)	
19	\triangle 1-751-057-21	CORD, POWER (WITH CONNECTOR)	
20	\triangle 1-453-268-21	FBT, NX-4005//X4J4	
21	1-766-374-11	PLUG, F-PIN	
22	\triangle 8-598-475-00	TUNER, BTF-WL411 (KV-29SL42K ONLY)	
22	\triangle 8-598-477-00	TUNER, BTF-WG411 (KV-29SL42T/29XL42T)	
23	4-063-572-32	COVER, REAR (KV-29SL42K/29XL42T)	
23	4-063-572-02	COVER, REAR (KV-29SL42T ONLY)	
24	4-062-047-01	PIECE A(110), CONV CORRECT	
25	1-452-032-00	MAGNET, DISC (KV-29XL42T/29SL42K ONLY)	

Note:

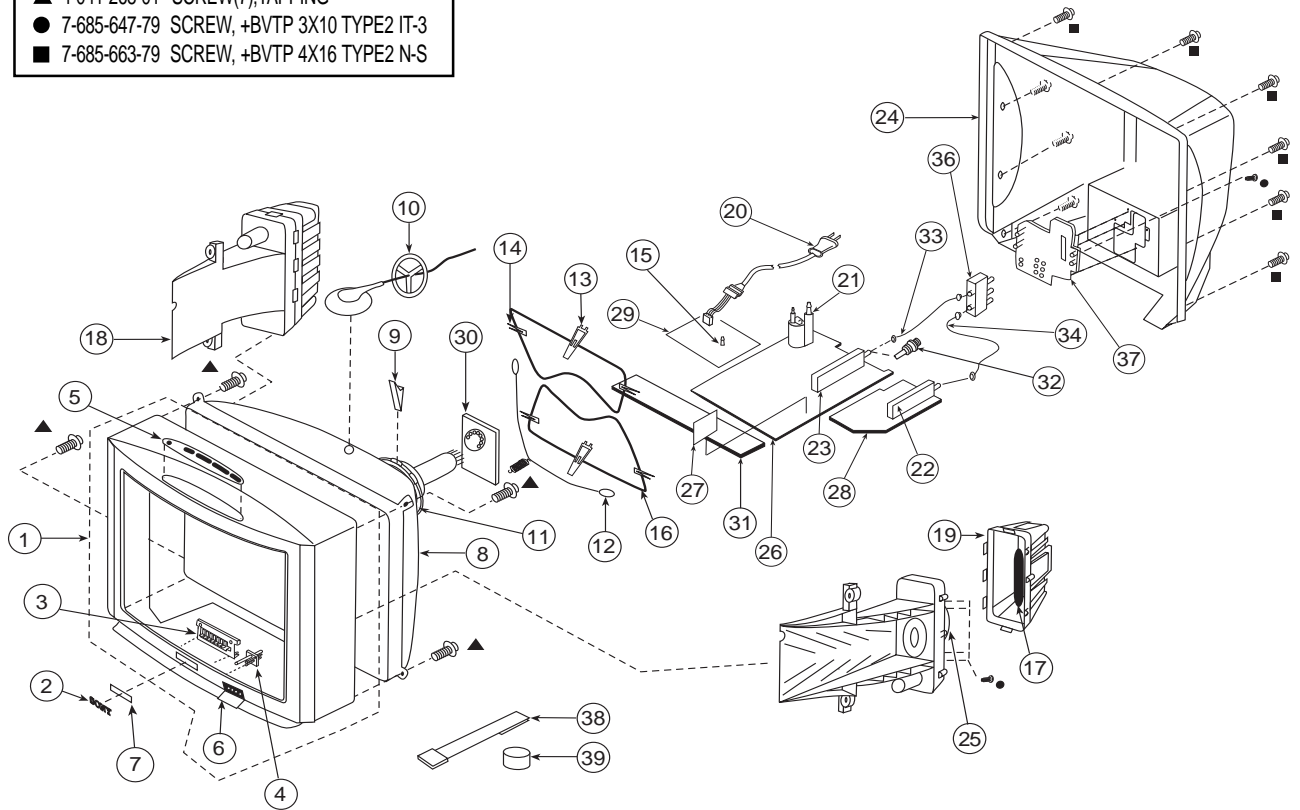
The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Note:

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

7-2. CHASSIS (KV-27V42/V66/29VL42T)

- ▲ 4-041-268-01 SCREW(7),TAPPING
- 7-685-647-79 SCREW, +BVTP 3X10 TYPE2 IT-3
- 7-685-663-79 SCREW, +BVTP 4X16 TYPE2 N-S



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4035-478-1	BEZNET ASSY (KV-27V66 ONLY)	6	22	\triangle 8-598-430-00	TUNER,BTF-FA401 (KV-27V66 ONLY)	
1	X-4036-606-1	BEZNET ASSY (KV-29VL42T/27V42)	6	23	\triangle 8-598-431-00	TUNER,BTF-WA411 (KV-27V42/V66)	
2	4-046-160-01	EMBLEM(NO.9),SONY		23	\triangle 8-598-477-00	TUNER,BTF-WG411 (KV-29VL42T ONLY)	
3	4-052-907-11	BUTTON,MULTI (KV-29VL42T ONLY)		24	4-063-018-02	COVER,REAR (KV-27V66 ONLY)	
4	* 4-052-897-01	GUIDE,LED		24	4-063-018-12	COVER,REAR (KV-29VL42T/27V42)	
5	1-473-549-21	SWITCH BLOCK, CONTROL		25	1-505-893-11	SPEAKER (8CM) (KV-27V66 ONLY)	
6	4-052-906-01	DOOR,CONTROL		25	1-505-404-11	SPEAKER (8CM) (KV-29VL42T/27V42)	
7	4-031-698-01	SHEET,ADHESIVE		26	* A-1298-901-A	A COMPLETE PC BOARD (KV-27V42 ONLY)	
8	\triangle 8-733-873-05	CRT, 29NX		26	* A-1298-841-A	A COMPLETE PC BOARD (KV-27V66 ONLY)	
9	4-053-005-01	SPACER,DY		26	* A-1298-941-A	A COMPLETE PC BOARD (KV-29VL42T ONLY)	
10	3-704-372-31	HOLDER,HV CABLE		27	* A-1195-154-A	P COMPLETE PC BOARD (KV-27V66 ONLY)	
11	\triangle 8-451-486-11	DY, Y29NXA-V		28	* A-1380-608-A	K (VAR) MOUNTED PC BOARD (KV-27V66 ONLY)	
12	4-036-329-01	SPRING(B),TENSION		29	* A-1343-654-A	E (VAR) MOUNTED PC BOARD	
13	4-040-387-01	HOLDER(M),DGC		30	* A-1331-921-A	CV MOUNTED PC BOARD	
14	4-040-388-01	HOLDER(S),DGC		31	* A-1372-614-A	HV (VAR) MOUNTED PC BOARD	
15	3-703-353-05	SUPPORT,PC BOARD		32	1-766-374-11	PLUG,F-PIN (KV-27V42/29VL42T ONLY)	
16	\triangle 1-416-918-11	COIL,DEMAGNETIC		33	* 1-783-800-11	CABLE,PIN (KV-27V66 ONLY)	
17	4-374-745-31	CUSHION (A)		34	* 1-557-056-31	CABLE,P-P (KV-27V66 ONLY)	
18	X-4035-400-1	BAFFLE ASSY, SPEAKER		36	8-598-414-00	ANTENNA SWITCH AS-2F (KV-27V66 ONLY)	
19	X-4035-401-1	COVER ASSY, SPEAKER		37	4-064-176-11	BRACKET,ANTENNA (KV-27V66 ONLY)	
20	\triangle 1-790-317-21	CORD,AC POWER(WITH CONNECTOR)		38	4-062-047-01	PIECE A(110),CONV CORRECT	
21	\triangle 1-453-268-21	FBT,NX-4005//X4J4		39	1-452-032-00	MAGNET,DISC	

SECTION 8 ELECTRICAL PARTS LIST

Note:

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.

Note:

Les composants identifiés par un trame et une marque **■** 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.
- 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.

A

RESISTORS

- All resistors are in ohms
- F : nonflammable

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

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<div style="display: inline-block; border: 1px solid black; padding: 5px; font-size: 2em; font-weight: bold; margin-right: 10px;">A</div>				C062	1-164-161-11	CERAMIC	0.0022µF 10% 50V
				C065	1-163-009-11	CERAMIC	0.001µF 10% 50V
				C070	1-163-259-91	CERAMIC	220PF 5% 50V
				C080	1-164-005-11	CERAMIC	0.47µF 25V
				C081	1-164-005-11	CERAMIC	0.47µF 25V
				C091	1-163-231-11	CERAMIC	15PF 5% 50V
				C092	1-163-231-11	CERAMIC	15PF 5% 50V
				C101	1-126-963-11	ELECT	4.7µF 20% 50V
				C102	1-126-933-11	ELECT	100µF 20% 16V
				C150	1-126-941-11	ELECT	470µF 20% 25V
				C151	1-104-664-11	ELECT	47µF 20% 25V
				C200	1-126-959-11	ELECT	0.47µF 20% 50V
				C201	1-126-960-11	ELECT	1µF 20% 50V
				C202	1-126-960-11	ELECT	1µF 20% 50V
				C207	1-126-959-11	ELECT	0.47µF 20% 50V
				C208	1-126-959-11	ELECT	0.47µF 20% 50V
				C209	1-126-963-11	ELECT	4.7µF 20% 50V
				C211	1-126-964-11	ELECT	10µF 20% 50V
				C212	1-126-963-11	ELECT	4.7µF 20% 50V
				C213	1-126-964-11	ELECT	10µF 20% 50V
				C216	1-126-959-11	ELECT	0.47µF 20% 50V (KV-29SL42K/42T/XL42T/VL42T/27V42)
				C217	1-126-959-11	ELECT	0.47µF 20% 50V (KV-29SL42K/SL42T/XL42T/VL42T/27V42)
				C218	1-126-941-11	ELECT	470µF 20% 25V
				C219	1-130-495-00	FILM	0.1µF 5% 50V
				C222	1-126-964-11	ELECT	10µF 20% 50V
				C226	1-126-963-11	ELECT	4.7µF 20% 50V
				C230	1-126-957-11	ELECT	0.22µF 20% 50V (KV-29VL42T/27V42)
				C237	1-126-957-11	ELECT	0.22µF 20% 50V (KV-29VL42T/27V42)
				C239	1-137-368-11	FILM	0.0047µF 5% 50V (KV-29VL42T/27V42)
				C240	1-137-368-11	FILM	0.0047µF 5% 50V (KV-29VL42T/27V42)
				C243	1-163-017-00	CERAMIC	0.0047µF 10% 50V
				C250	1-126-960-11	ELECT	1µF 20% 50V (KV-27V66 ONLY)
* A-1298-901-A		A BOARD, COMPLETE (KV-27V42)					
* A-1298-841-A		A BOARD, COMPLETE (KV-27V66)					
* A-1298-939-A		A BOARD, COMPLETE (KV-29SL42K)					
* A-1298-940-A		A BOARD, COMPLETE (KV-29SL42T/XL42T)					
* A-1298-941-A		A BOARD, COMPLETE (KV-29VL42T)					
4-382-854-11		SCREW (M3X10), P, SW (+)					
4-382-854-11		SCREW (M3X10), P, SW (+)					
CAPACITOR							
C001	1-163-259-91	CERAMIC	220PF 5% 50V				
C004	1-104-664-11	ELECT	47µF 20% 25V				
C005	1-126-960-11	ELECT	1µF 20% 50V				
C006	1-163-035-00	CERAMIC	0.047µF 50V				
C007	1-163-259-91	CERAMIC	220PF 5% 50V				
C008	1-163-009-11	CERAMIC	0.001µF 10% 50V				
C010	1-163-009-11	CERAMIC	0.001µF 10% 50V				
C011	1-163-009-11	CERAMIC	0.001µF 10% 50V				
C012	1-163-009-11	CERAMIC	0.001µF 10% 50V				
C014	1-164-004-11	CERAMIC	0.1µF 10% 25V				
C017	1-126-960-11	ELECT	1µF 20% 50V				
C019	1-163-135-00	CERAMIC	560PF 5% 50V				
C020	1-130-495-00	FILM	0.1µF 5% 50V				
C021	1-163-259-91	CERAMIC	220PF 5% 50V				
C028	1-163-005-11	CERAMIC	470PF 10% 50V				
C030	1-163-259-91	CERAMIC	220PF 5% 50V				
C034	1-163-037-11	CERAMIC	0.022µF 10% 50V				
C037	1-164-161-11	CERAMIC	0.0022µF 10% 50V				
C038	1-126-941-11	ELECT	470µF 20% 25V				
C039	1-126-964-11	ELECT	10µF 20% 50V				
C046	1-104-664-11	ELECT	47µF 20% 25V				
C047	1-163-259-91	CERAMIC	220PF 5% 50V				
C048	1-163-009-11	CERAMIC	0.001µF 10% 50V				
C055	1-163-251-11	CERAMIC	100PF 5% 50V				
C060	1-163-005-11	CERAMIC	470PF 10% 50V				

Note:

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

Note:

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

A

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C251	1-126-960-11	ELECT 1 μ F (KV-27V66 ONLY)	20% 50V	C355	1-164-222-11	CERAMIC .22 μ F	25V
C252	1-126-959-11	ELECT 0.47 μ F (KV-27V66 ONLY)	20% 50V	C356	1-163-038-91	CERAMIC 0.1 μ F	25V
C255	1-104-760-11	CERAMIC 0.047 μ F	10% 50V	C357	1-163-021-91	CERAMIC 0.01 μ F	10% 50V
C256	1-126-960-11	ELECT 1 μ F	20% 50V	C358	1-104-664-11	ELECT 47 μ F	20% 25V
C257	1-126-960-11	ELECT 1 μ F	20% 50V	C359	1-163-021-91	CERAMIC 0.01 μ F	10% 50V
C258	1-126-959-11	ELECT 0.47 μ F	20% 50V	C360	1-163-021-91	CERAMIC 0.01 μ F	10% 50V
C259	1-163-021-91	CERAMIC 0.01 μ F	10% 50V	C361	1-163-037-11	CERAMIC 0.022 μ F	10% 50V
C280	1-126-935-11	ELECT 470 μ F (KV-29VL42T/27V42/V66)	20% 16V	C362	1-126-965-11	ELECT 10 μ F	20% 50V
C281	1-126-959-11	ELECT 0.47 μ F (KV-29VL42T/27V42/V66)	20% 50V	C363	1-126-960-11	ELECT 1 μ F	20% 50V
C282	1-126-959-11	ELECT 0.47 μ F (KV-29VL42T/27V42/V66)	20% 50V	C370	1-163-021-91	CERAMIC 0.01 μ F (KV-27V66 ONLY)	10% 50V
C284	1-104-664-11	ELECT 47 μ F	20% 25V	C371	1-163-021-91	CERAMIC 0.01 μ F (KV-27V66 ONLY)	10% 50V
C285	1-126-933-11	ELECT 100 μ F	20% 16V	C372	1-163-021-91	CERAMIC 0.01 μ F (KV-27V66 ONLY)	10% 50V
C286	1-163-251-11	CERAMIC 100PF	5% 50V	C373	1-163-038-91	CERAMIC 0.1 μ F	25V
C287	1-126-959-11	ELECT 0.47 μ F	20% 50V	C374	1-126-935-11	ELECT 470 μ F	20% 16V
C288	1-126-960-11	ELECT 1 μ F	20% 50V	C375	1-163-038-91	CERAMIC 0.1 μ F	25V
C289	1-126-960-11	ELECT 1 μ F	20% 50V	C376	1-104-664-11	ELECT 47 μ F	20% 25V
C290	1-164-005-11	CERAMIC 0.47 μ F	25V	C377	1-126-964-11	ELECT 10 μ F	20% 50V
C301	1-163-233-11	CERAMIC 18PF	5% 50V	C380	1-163-021-91	CERAMIC 0.01 μ F (KV-29SL42K/SL42T/XL42T/VL42T/27V42)	10% 50V
C303	1-126-963-11	ELECT 4.7 μ F	20% 50V	C381	1-163-021-91	CERAMIC 0.01 μ F (KV-29SL42K/SL42T/XL42T/VL42T/27V42)	10% 50V
C304	1-163-038-91	CERAMIC 0.1 μ F	25V	C382	1-163-021-91	CERAMIC 0.01 μ F (KV-29SL42K/SL42T/XL42T/VL42T/27V42)	10% 50V
C305	1-164-004-11	CERAMIC 0.1 μ F	10% 25V	C390	1-126-959-11	ELECT 0.47 μ F	20% 50V
C306	1-164-004-11	CERAMIC 0.1 μ F	10% 25V	C399	1-126-964-11	ELECT 10 μ F	20% 50V
C307	1-126-964-11	ELECT 10 μ F	20% 50V	C400	1-126-963-11	ELECT 4.7 μ F	20% 50V
C308	1-126-964-11	ELECT 10 μ F	20% 50V	C401	1-126-956-91	ELECT 0.1 μ F	20% 50V
C309	1-163-017-00	CERAMIC 0.0047 μ F	10% 50V	C402	1-163-017-00	CERAMIC 0.0047 μ F	10% 50V
C310	1-126-963-11	ELECT 4.7 μ F	20% 50V	C403	1-126-963-11	ELECT 4.7 μ F	20% 50V
C311	1-163-021-91	CERAMIC 0.01 μ F	10% 50V	C404	1-126-963-11	ELECT 4.7 μ F	20% 50V
C312	1-126-942-61	ELECT 1000 μ F	20% 25V	C405	1-126-963-11	ELECT 4.7 μ F	20% 50V
C313	1-163-021-91	CERAMIC 0.01 μ F	10% 50V	C406	1-126-963-11	ELECT 4.7 μ F	20% 50V
C314	1-163-003-11	CERAMIC 330PF	10% 50V	C407	1-126-964-11	ELECT 10 μ F	20% 50V
C316	1-163-021-91	CERAMIC 0.01 μ F	10% 50V	C410	1-126-963-11	ELECT 4.7 μ F	20% 50V
C317	1-163-021-91	CERAMIC 0.01 μ F	10% 50V	C411	1-126-956-91	ELECT 0.1 μ F	20% 50V
C318	1-163-021-91	CERAMIC 0.01 μ F	10% 50V	C412	1-130-495-00	FILM 0.1 μ F	5% 50V
C319	1-126-963-11	ELECT 4.7 μ F	20% 50V	C413	1-126-967-11	ELECT 47 μ F	20% 50V
C320	1-126-959-11	ELECT 0.47 μ F	20% 50V	C414	1-163-017-00	CERAMIC 0.0047 μ F	50V
C321	1-163-133-00	CERAMIC 470PF	5% 50V	C415	1-126-956-91	ELECT 0.1 μ F	20% 50V
C323	1-163-121-00	CERAMIC 150PF	5% 50V	C416	1-126-963-11	ELECT 4.7 μ F	20% 50V
C324	1-163-251-11	CERAMIC 100PF	5% 50V	C418	1-126-964-11	ELECT 10 μ F (KV-29SL42K/SL42T/XL42T/VL42T/27V42)	20% 50V
C331	1-163-009-11	CERAMIC 0.001 μ F	10% 50V	C501	1-102-112-00	CERAMIC 330PF	10% 50V
C332	1-163-009-11	CERAMIC 0.001 μ F	10% 50V	C502	1-106-383-00	MYLAR 0.047 μ F	10% 200V
C350	1-163-021-91	CERAMIC 0.01 μ F	10% 50V	C503	1-102-212-00	CERAMIC 820PF	10% 500V
C351	1-126-964-11	ELECT 10 μ F	20% 50V	C504	1-102-002-00	CERAMIC 680PF	10% 500V
C352	1-163-021-91	CERAMIC 0.01 μ F	10% 50V				
C353	1-163-038-91	CERAMIC 0.1 μ F	25V				
C354	1-163-038-91	CERAMIC 0.1 μ F	25V				

A**Note:**

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Note:

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C505	Δ 1-162-134-11	CERAMIC	470PF 10% 2KV	C621	1-136-356-11	FILM	470PF 5% 50V
C507	Δ 1-119-969-11	MYLAR	14000PF 3% 1.5KV	C625	1-164-625-11	CERAMIC	680PF 10% 500V
C508	Δ 1-107-364-11	MYLAR	0.01 μ F 10% 200V	C626	1-126-933-11	ELECT	100 μ F 20% 16V
C509	Δ 1-162-116-00	CERAMIC	680PF 10% 2KV	C627	1-164-004-11	CERAMIC	0.1 μ F 10% 25V
C510	1-107-649-11	ELECT	2.2 μ F 20% 250V			(KV-27V66 ONLY)	
C511	Δ 1-117-673-11	FILM	1.5 μ F 5% 250V	C629	1-104-665-11	ELECT	100 μ F 20% 25V
C512	1-106-395-00	MYLAR	0.15 μ F 10% 200V	C630	1-124-347-00	ELECT	100 μ F 20% 160V
C513	1-106-343-00	MYLAR	0.001 μ F 10% 100V	C631	1-126-944-11	ELECT	3300 μ F 20% 25V
C514	1-117-891-11	FILM	0.62 μ F 5% 250V	C633	1-104-341-11	FILM	0.1 μ F 10% 250V
C515	Δ 1-162-116-00	CERAMIC	680PF 10% 2KV	C634	1-130-471-00	MYLAR	0.001 μ F 5% 50V
C520	Δ 1-129-722-00	FILM	0.047 μ F 5% 630V	C638	1-104-665-11	ELECT	100 μ F 20% 25V
C521	1-164-646-11	CERAMIC	2200PF 10% 500V	C639	1-125-772-91	CERAMIC	1500PF 10% 2KV
C523	1-107-652-11	ELECT	10 μ F 20% 250V	C640	1-164-625-11	CERAMIC	680PF 10% 500V
C524	1-102-244-00	CERAMIC	220PF 10% 500V	C641	1-126-943-11	ELECT	2200 μ F 20% 25V
C525	1-162-815-11	CERAMIC	47PF 5% 500V	C653	1-104-664-11	ELECT	47 μ F 20% 25V
C526	1-126-960-11	ELECT	1 μ F 20% 50V	C654	1-126-933-11	ELECT	100 μ F 20% 16V
C527	1-126-965-11	ELECT	22 μ F 20% 50V	C655	1-107-636-11	ELECT	10 μ F 20% 160V
C528	1-164-690-91	CERAMIC	0.0022 μ F 5% 50V	C690	1-126-959-11	ELECT	0.47 μ F 20% 50V
C529	1-164-161-11	CERAMIC	0.0022 μ F 10% 50V	C691	1-126-941-11	ELECT	470 μ F 20% 25V
C530	1-163-009-11	CERAMIC	0.001 μ F 10% 50V	C692	1-104-664-11	ELECT	47 μ F 20% 25V
C531	1-106-387-00	MYLAR	0.068 μ F 10% 200V	C693	1-137-194-81	FILM	0.47 μ F 5% 50V
C541	1-126-969-11	ELECT	220 μ F 20% 50V	C699	1-113-924-11	CERAMIC	0.0047 μ F 20% 250V
C542	1-126-967-11	ELECT	47 μ F 20% 50V			CONNECTOR	
C543	1-137-194-81	FILM	0.47 μ F 5% 50V	CN101	1-508-786-00	PIN,CONNECTOR(5MMPITCH)	
C553	1-107-662-11	ELECT	22 μ F 20% 250V	CN151	1-564-511-11	PLUG,CONNECTOR 8P (KV-27V66 ONLY)	
C555	1-163-017-00	CERAMIC	0.0047 μ F 10% 50V	CN152	1-564-509-11	PLUG,CONNECTOR 6P (KV-27V66 ONLY)	
C562	1-126-941-11	ELECT	470 μ F 20% 25V	CN203	1-560-124-00	PLUG,CONNECTOR(2.5MM)4P	
C564	1-126-941-11	ELECT	470 μ F 20% 25V	CN251	1-564-510-11	PLUG,CONNECTOR 7P (KV-27V66 ONLY)	
C571	Δ 1-126-964-11	ELECT	10 μ F 20% 50V	CN252	1-564-506-11	PLUG,CONNECTOR 3P (KV-29VL42T/27V42)	
C573	1-126-963-11	ELECT	4.7 μ F 20% 50V	CN253	1-564-510-11	PLUG,CONNECTOR 7P (KV-29VL42T/27V42/V66)	
C574	1-107-635-11	ELECT	4.7 μ F 20% 160V	CN254	1-564-508-11	PLUG,CONNECTOR 5P	
C575	Δ 1-163-021-91	CERAMIC	0.01 μ F 10% 50V	CN255	1-564-510-11	PLUG,CONNECTOR 7P	
C576	1-123-024-21	ELECT	33 μ F 160V	CN301	1-564-508-11	PLUG,CONNECTOR 5P (KV-29SL42K/SL42T/XL42T)	
C581	1-126-963-11	ELECT	4.7 μ F 20% 50V	CN301	1-564-511-11	PLUG,CONNECTOR 8P (KV-29VL42T/27V42/V66)	
C591	1-106-357-00	MYLAR	0.0033 μ F 20% 200V	CN302	1-691-616-11	CONNECTOR,BOARDTO BOARD (KV-27V66 ONLY)	
C601	1-130-495-00	MYLAR	0.1 μ F 5% 50V	CN401	1-564-505-11	PLUG,CONNECTOR 2P	
C602	1-126-967-11	ELECT	47 μ F 20% 50V	CN402	1-564-505-11	PLUG,CONNECTOR 2P	
C609	1-126-968-11	ELECT	100 μ F 20% 50V	CN501	1-580-798-11	CONNECTORPIN(DY) 6P	
C610	1-126-964-11	ELECT	10 μ F 20% 50V	CN502	1-564-509-11	PLUG,CONNECTOR 6P	
C613	Δ 1-128-718-11	ELECT	560 μ F 20% 400V (KV-29SL42K/SL42T/XL42T/VL42T/27V42/V66)	CN601	1-580-843-11	PIN,CONNECTOR(POWER)	
C614	1-126-964-11	ELECT	10 μ F 20% 50V	CN602	1-508-786-00	PIN,CONNECTOR(5MMPITCH)	
C615	1-113-924-11	CERAMIC	0.0047 μ F 20% 250V	CN604	1-564-506-11	PLUG,CONNECTOR 3P	
C616	1-130-202-00	FILM	0.022 μ F 10% 400V (KV-29SL42K ONLY)			DIODE	
C617	1-107-824-11	CERAMIC	220PF 5% 1KV (KV-29SL42K ONLY)	D001	8-719-921-44	DIODE MTZJ-5.1C	
C618	1-125-893-11	FILM	680PF 3% 1.5KV	D002	8-719-070-80	DIODE LNK0120022G (KV-29SL42K/29SL42T/XL42T)	
C620	1-164-081-11	CERAMIC	470PF 10% 50V	D003	8-719-991-33	DIODE 1SS133T-77	

Note:

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Note:

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D004	8-719-991-33	DIODE	1SS133T-77	D606	8-719-108-18	THYRISTOR	5P6M
D005	8-719-109-89	DIODE	RD5.6ESB2	D607	8-719-991-33	DIODE	1SS133T-77
D201	8-719-110-17	DIODE	RD10ESB2	D608	8-719-110-53	DIODE	RD20ESB2
D202	8-719-110-17	DIODE	RD10ESB2	D609	8-719-311-31	DIODE	RU-1P (KV-29SL42K/29VL42T)
D204	8-719-110-17	DIODE	RD10ESB2	D610	8-719-510-02	DIODE	D1NS4
D205	8-719-982-22	DIODE	MTZJ-30D	D611	8-719-063-70	DIODE	D1NL20U
D207	8-719-109-66	DIODE	RD3.3ESB2	D612	8-719-110-17	DIODE	RD10ESB2
D208	8-719-110-17	DIODE	RD10ESB2 (KV-29SL42K/SL42T/XL42T/VL42T/27V42)	D613	8-719-063-70	DIODE	D1NL20U
D208	8-719-982-96	DIODE	MTZJ-T-77-2.2A (KV-27V66 ONLY)	D614	8-719-063-70	DIODE	D1NL20U
D250	8-719-108-12	DIODE	RD9.1EW	D615	8-719-312-10	DIODE	RU4AM-T3
D251	8-719-108-12	DIODE	RD9.1EW	D617	8-719-510-37	DIODE	D5LC20U
D252	8-719-110-17	DIODE	RD10ESB2	D620	8-719-110-17	DIODE	RD10ESB2
D253	8-719-110-17	DIODE	RD10ESB2	D630	8-719-510-37	DIODE	D5LC20U
D254	8-719-110-17	DIODE	RD10ESB2	D640	8-719-991-33	DIODE	1SS133T-77
D255	8-719-110-17	DIODE	RD10ESB2	D650	8-719-109-89	DIODE	RD5.6ESB2
D280	8-719-981-99	DIODE	MTZJ-3.3 (KV-29VL42T/27V42/27V66)	FERRITE BEAD			
D281	8-719-981-99	DIODE	MTZJ-3.3 (KV-29VL42T/27V42/27V66)	FB350	1-216-295-91	SHORT	
D302	8-719-921-44	DIODE	MTZJ-5.1C	FB501	1-410-396-41	FERRITE	0 μ H
D303	8-719-991-33	DIODE	1SS133T-77	FB521	1-410-397-21	FERRITE	1.1 μ H
D304	8-719-991-33	DIODE	1SS133T-77	FB522	1-410-397-21	FERRITE	1.1 μ H
D305	8-719-991-33	DIODE	1SS133T-77	FB600	1-412-911-11	FERRITE	0 μ H
D306	8-719-991-33	DIODE	1SS133T-77	FB601	1-412-911-11	FERRITE	0 μ H
D388	8-719-921-44	DIODE	MTZJ-5.1C	FB602	1-412-911-11	FERRITE	0 μ H
D403	8-719-991-33	DIODE	1SS133T-77 (KV-29SL42K/29SL42T/XL42T/29VL42T/27V42)	FB603	1-412-911-11	FERRITE	0 μ H
D501	8-719-945-80	DIODE	ERC06-15S	FB604	1-412-911-11	FERRITE	0 μ H
D502	8-719-908-03	DIODE	GP08D	FB605	1-412-911-11	FERRITE	0 μ H
D503	8-719-908-03	DIODE	GP08D	FB606	1-412-911-11	FERRITE	0 μ H
D520	8-719-067-63	DIODE	MDV04-600RL	FB609	1-412-911-11	FERRITE	0 μ H
D521	8-719-302-43	DIODE	EL1Z	IC			
D522	8-719-991-33	DIODE	1SS133T-77	IC001	8-759-562-90	IC M37273MF-251SP	
D523	8-719-991-33	DIODE	1SS133T-77	IC002	8-759-575-47	IC NJM78LR05BM-TE2	
D541	8-719-908-03	DIODE	GP08D	IC003	8-759-527-75	IC M24C04-MN6T	
D550	8-719-110-08	DIODE	RD8.2ESB2	IC004	8-742-014-11	HYB IC SBX1981-51 (KV-29SL42K/29SL42T/XL42T)	
D551	8-719-991-33	DIODE	1SS133T-77	IC010	8-759-450-93	IC NJM2521M-TE1	
D552	8-719-302-43	DIODE	EL1Z	IC202	8-759-100-96	IC NJM4558M-TE2	
D561	8-719-979-85	DIODE	EGP20G	IC203	8-759-366-77	IC MM1311AD (KV-29SL42K/29SL42T/XL42T/29VL42T/27V42)	
D562	8-719-979-85	DIODE	EGP20G	IC203	8-759-534-81	IC MM1313AD (KV-27V66 ONLY)	
D571 \triangle	8-719-991-33	DIODE	1SS133T-77	IC301	8-752-090-39	IC CXA2133S	
D572	8-719-991-33	DIODE	1SS133T-77	IC302	8-752-385-80	IC CXD2073S	
D573	8-719-110-08	DIODE	RD8.2ESB2	IC401	8-759-490-17	IC TDA7057AQ/N2 (KV-29SL42K/29SL42T/XL42T/29VL42T/27V42)	
D574	8-719-302-43	DIODE	EL1Z	IC402	8-752-072-39	IC CXA2021S	
D581 \triangle	8-719-991-33	DIODE	1SS133T-77	IC521	8-759-700-07	IC NJM2903M-TE2	
D602	8-719-991-33	DIODE	1SS133T-77	IC541	8-759-980-58	IC TDA8172	
D603	8-719-982-26	DIODE	MTZJ-33B	IC601 \triangle	8-749-014-48	IC STR-F6656 (KV-29SL42K ONLY)	
D604	8-719-028-72	DIODE	RGPO2-17EL-6433	IC601 \triangle	8-749-015-61	IC STR-F6626 (KV-29SL42T/XL42T/29VL42T/27V42/27V66)	
D605	8-719-510-53	DIODE	D4SB60L				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC602	\triangle 8-749-920-61	IC SE135N-LF12		Q080	8-729-422-27	TRANSISTOR 2SD601A-Q (KV-29VL42T/27V42/27V66)	
IC604	8-759-198-03	IC PQ09RF21		Q082	8-729-422-27	TRANSISTOR 2SD601A-Q	
JACK				Q083	8-729-422-27	TRANSISTOR 2SD601A-Q	
J200	1-774-750-21	JACK BLOCK,PIN 2P		Q101	8-729-422-27	TRANSISTOR 2SD601A-Q	
J201	1-774-751-11	TERMINAL BLOCK,S		Q170	8-729-422-27	TRANSISTOR 2SD601A-Q	
J202	1-774-749-11	JACK BLOCK,PIN (KV-29VL42T/27V42/27V66)		Q200	8-729-422-27	TRANSISTOR 2SD601A-Q	
J204	1-774-749-11	JACK BLOCK,PIN (KV-29VL42T/27V42/27V66)		Q201	8-729-422-27	TRANSISTOR 2SD601A-Q	
CHIP CONDUCTOR				Q203	8-729-216-22	TRANSISTOR 2SA1162-G	
JR003	1-216-295-91	SHORT		Q280	8-729-216-22	TRANSISTOR 2SA1162-G (KV-29VL42T/27V42/27V66)	
COIL				Q281	8-729-216-22	TRANSISTOR 2SA1162-G (KV-29VL42T/27V42/27V66)	
L001	1-414-267-11	INDUCTOR 10 μ H		Q282	8-729-216-22	TRANSISTOR 2SA1162-G (KV-29VL42T/27V42/27V66)	
L002	1-414-273-11	INDUCTOR 100 μ H		Q283	8-729-422-27	TRANSISTOR 2SD601A-Q (KV-29VL42T/27V42/27V66)	
L003	1-414-273-11	INDUCTOR 100 μ H		Q284	8-729-422-27	TRANSISTOR 2SD601A-Q (KV-29VL42T/27V42/27V66)	
L101	1-414-267-11	INDUCTOR 10 μ H		Q285	8-729-422-27	TRANSISTOR 2SD601A-Q (KV-29VL42T/27V42/27V66)	
L150	1-414-273-11	INDUCTOR 100 μ H		Q286	8-729-216-22	TRANSISTOR 2SA1162-G	
L151	1-414-267-11	INDUCTOR 10 μ H		Q287	8-729-216-22	TRANSISTOR 2SA1162-G	
L301	1-414-271-11	INDUCTOR 47 μ H		Q288	8-729-422-27	TRANSISTOR 2SD601A-Q	
L302	1-414-267-11	INDUCTOR 10 μ H		Q300	\triangle 8-729-422-27	TRANSISTOR 2SD601A-Q	
L350	1-414-267-11	INDUCTOR 10 μ H		Q302	8-729-422-27	TRANSISTOR 2SD601A-Q	
L351	1-414-271-11	INDUCTOR 47 μ H		Q305	8-729-216-22	TRANSISTOR 2SA1162-G	
L501	\triangle 1-411-976-11	COIL,HORIZONTAL LINEARITY		Q306	8-729-216-22	TRANSISTOR 2SA1162-G	
L502	1-412-552-11	INDUCTOR 2.2 μ H		Q307	8-729-216-22	TRANSISTOR 2SA1162-G	
L503	1-406-677-11	INDUCTOR 10 μ H		Q308	8-729-216-22	TRANSISTOR 2SA1162-G	
L504	1-412-533-21	INDUCTOR 47 μ H		Q309	8-729-216-22	TRANSISTOR 2SA1162-G	
L520	1-409-955-11	INDUCTOR 8 μ H		Q310	8-729-216-22	TRANSISTOR 2SA1162-G	
L591	\triangle 1-412-528-61	INDUCTOR 18 μ H		Q349	8-729-120-28	TRANSISTOR 2SC1623-L5L6 (KV-29SL42K/27V66/29VL42T)	
L601	1-412-529-11	INDUCTOR 22 μ H		Q349	8-729-422-27	TRANSISTOR 2SD601A-Q (KV-29SL42T/XL42T/27V42)	
L642	1-412-529-11	INDUCTOR 22 μ H		Q350	8-729-216-22	TRANSISTOR 2SA1162-G	
L643	1-412-525-31	INDUCTOR 10 μ H		Q351	8-729-422-27	TRANSISTOR 2SD601A-Q	
PHOTOCOUPLER				Q352	8-729-216-22	TRANSISTOR 2SA1162-G	
PH600	\triangle 8-749-010-64	PHOTO COUPLER PC123F2		Q353	8-729-216-22	TRANSISTOR 2SA1162-G	
IC LINK				Q354	8-729-216-22	TRANSISTOR 2SA1162-G	
PS201	\triangle 1-532-984-11	LINK,IC 2A/90V (KV-29SL42K/29SL42T/XL42T/29VL42T/27V42)		Q355	8-729-422-27	TRANSISTOR 2SD601A-Q	
TRANSISTOR				Q356	8-729-216-22	TRANSISTOR 2SA1162-G	
Q001	8-729-216-22	TRANSISTOR 2SA1162-G		Q357	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q358	8-729-422-27	TRANSISTOR 2SD601A-Q	
				Q359	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q360	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q361	8-729-422-27	TRANSISTOR 2SD601A-Q	
				Q390	8-729-422-27	TRANSISTOR 2SD601A-Q (KV-29VL42T/27V42/27V66)	
				Q391	8-729-422-27	TRANSISTOR 2SD601A-Q (KV-29VL42T/27V42/27V66)	

Note:

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Note:

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q501	8-729-140-50	TRANSISTOR	2SC3209LK	R038	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q502	8-729-043-43	TRANSISTOR	2SC5426-01	R039	1-216-295-91	SHORT	
Q521	8-729-422-27	TRANSISTOR	2SD601A-Q	R040	1-249-413-11	CARBON 470	5% 1/4W
Q522	8-729-809-29	TRANSISTOR	2SC4159-E	R041	1-216-033-00	RES,CHIP 220	5% 1/10W
Q550	8-729-422-27	TRANSISTOR	2SD601A-Q	R043	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q555	8-729-422-27	TRANSISTOR	2SD601A-Q	R044	1-247-815-91	CARBON 220	5% 1/4W
Q571 Δ	8-729-200-17	TRANSISTOR	2SA1091-O	R045	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q601	8-729-922-37	TRANSISTOR	2SD2144S-UVW	R046	1-247-815-91	CARBON 220	5% 1/4W
Q602	8-729-119-78	TRANSISTOR	2SC2785-HFE	R047	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q603	8-729-119-76	TRANSISTOR	2SA1175-HFE	R048	1-216-025-91	RES,CHIP 100	5% 1/10W
Q604	8-729-119-78	TRANSISTOR	2SC2785-HFE	R049	1-216-089-91	RES,CHIP 47K	5% 1/10W
Q607	8-729-922-37	TRANSISTOR	2SD2144S-UVW	R050	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q610	8-729-119-78	TRANSISTOR	2SC2785-HFE	R051	1-216-033-00	RES,CHIP 220	5% 1/10W
Q630	8-729-119-78	TRANSISTOR	2SC2785-HFE	R052	1-216-033-00	RES,CHIP 220	5% 1/10W
Q650	8-729-111-55	TRANSISTOR	2SD1312-K	R054	1-216-073-00	RES,CHIP 10K	5% 1/10W
RESISTOR				R056	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R001	1-216-033-00	RES,CHIP	220 5% 1/10W	R057	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R002	1-216-073-00	RES,CHIP	10K 5% 1/10W	R058	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R003	1-216-033-00	RES,CHIP	220 5% 1/10W	R060	1-216-295-91	SHORT	
R004	1-216-073-00	RES,CHIP	10K 5% 1/10W	R061	1-216-295-91	SHORT	
R005	1-216-295-91	SHORT		R065	1-216-295-91	SHORT (KV-29SL42K/29SL42T/XL42T)	
R006	1-216-295-91	SHORT		R066	1-216-033-00	RES,CHIP 220	5% 1/10W
R007	1-216-025-91	RES,CHIP	100 5% 1/10W	R069	1-247-815-91	CARBON 220	5% 1/4W
R008	1-216-033-00	RES,CHIP	220 5% 1/10W	R070	1-249-425-11	CARBON 4.7K	5% 1/4W
R010	1-216-033-00	RES,CHIP	220 5% 1/10W	R071	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R011	1-216-033-00	RES,CHIP	220 5% 1/10W	R073	1-249-425-11	CARBON 4.7K	5% 1/4W
R013	1-216-081-00	RES,CHIP	22K 5% 1/10W	R074	1-216-073-00	RES,CHIP 10K	5% 1/10W
R016	1-216-041-00	RES,CHIP	470 5% 1/10W	R075	1-216-073-00	RES,CHIP 10K	5% 1/10W
R017	1-216-113-00	RES,CHIP	470K 5% 1/10W	R076	1-216-121-91	RES,CHIP 1M	5% 1/10W
R018	1-216-049-91	RES,CHIP	1K 5% 1/10W	R077	1-216-097-91	RES,CHIP 100K	5% 1/10W
R019	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R080	1-247-863-91	CARBON 22K	5% 1/4W (KV-29VL42T/27V42/27V66)
R020	1-216-069-00	RES,CHIP	6.8K 5% 1/10W (KV-29SL42K/29SL42T/XL42T)	R082	1-216-073-00	RES,CHIP 10K	5% 1/10W (KV-29VL42T/27V42/27V66)
R021	1-249-415-11	CARBON	680 5% 1/4W (KV-29SL42K/29SL42T/XL42T)	R083	1-216-041-00	RES,CHIP 470	5% 1/10W (KV-29VL42T/27V42/27V66)
R022	1-249-416-11	CARBON	820 5% 1/4W (KV-29SL42K/29SL42T/XL42T)	R084	1-249-429-11	CARBON 10K	5% 1/4W (KV-29VL42T/27V42/27V66)
R023	1-216-057-00	RES,CHIP	2.2K 5% 1/10W (KV-29SL42K/29SL42T/XL42T)	R085	1-216-049-91	RES,CHIP 1K	5% 1/10W
R025	1-249-426-11	CARBON	5.6K 5% 1/4W	R086	1-216-045-00	RES,CHIP 680	5% 1/10W
R026	1-249-426-11	CARBON	5.6K 5% 1/4W	R087	1-216-045-00	RES,CHIP 680	5% 1/10W
R027	1-249-426-11	CARBON	5.6K 5% 1/4W	R088	1-216-045-00	RES,CHIP 680	5% 1/10W
R028	1-216-049-91	RES,CHIP	1K 5% 1/10W	R090	1-249-429-11	CARBON 10K	5% 1/4W (KV-29SL42K/29SL42T/XL42T)
R031	1-216-045-00	RES,CHIP	680 5% 1/10W	R091	1-216-073-00	RES,CHIP 10K	5% 1/10W
R032	1-247-815-91	CARBON	220 5% 1/4W	R092	1-216-073-00	RES,CHIP 10K	5% 1/10W
R033	1-247-815-91	CARBON	220 5% 1/4W	R095	1-216-073-00	RES,CHIP 10K	5% 1/10W
R034	1-216-033-00	RES,CHIP	220 5% 1/10W	R096	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R035	1-216-033-00	RES,CHIP	220 5% 1/10W				

A**Note:**

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Note:

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R097	1-216-049-91	RES,CHIP	1K 5% 1/10W	R236	1-249-421-11	CARBON 2.2K 5% 1/4W (KV-29SL42K/29SL42T/XL42T)	
R101	1-216-073-00	RES,CHIP	10K 5% 1/10W	R236	1-249-426-11	CARBON 5.6K 5% 1/4W (KV-29VL42T/27V42)	
R120	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R237	1-216-069-00	RES,CHIP 6.8K 5% 1/10W (KV-29VL42T/27V42)	
R121	1-216-073-00	RES,CHIP	10K 5% 1/10W	R238	1-216-069-00	RES,CHIP 6.8K 5% 1/10W (KV-29VL42T/27V42)	
R150	1-216-025-91	RES,CHIP	100 5% 1/10W	R239	1-216-065-91	RES,CHIP 4.7K 5% 1/10W (KV-29VL42T/27V42)	
R151	1-216-025-91	RES,CHIP	100 5% 1/10W	R240	1-216-065-91	RES,CHIP 4.7K 5% 1/10W (KV-29VL42T/27V42)	
R170	1-216-025-91	RES,CHIP	100 5% 1/10W	R241	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R171	1-216-049-91	RES,CHIP	1K 5% 1/10W	R242	1-216-083-00	RES,CHIP 27K 5% 1/10W	
R172	1-216-295-91	SHORT		R243	1-216-689-11	RES,CHIP 39K 5% 1/10W	
R173	1-216-295-91	SHORT		R244	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R174	1-216-295-91	SHORT	(KV-29SL42K ONLY)	R245	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R175	1-216-295-91	SHORT	(KV-29SL42K ONLY)	R248	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R200	1-216-022-00	RES,CHIP	75 5% 1/10W	R250	1-216-033-00	RES,CHIP 220 5% 1/10W	
R201	1-216-113-00	RES,CHIP	470K 5% 1/10W	R252	1-216-033-00	RES,CHIP 220 5% 1/10W	
R202	1-216-113-00	RES,CHIP	470K 5% 1/10W	R253	1-215-899-11	METAL 15K 5% 2W	
R203	1-216-025-91	RES,CHIP	100 5% 1/10W	R254	1-216-033-00	RES,CHIP 220 5% 1/10W	
R204	1-216-043-91	RES,CHIP	560 5% 1/10W	R255	1-216-022-00	RES,CHIP 75 5% 1/10W (KV-29VL42T/27V42/27V66)	
R205	1-216-043-91	RES,CHIP	560 5% 1/10W	R256	1-216-033-00	RES,CHIP 220 5% 1/10W	
R207	1-216-025-91	RES,CHIP	100 5% 1/10W	R257	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R211	1-247-807-31	CARBON 100 5% 1/4W (KV-29SL42K/29SL42T/XL42T/29VL42T/27V42)		R258	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R212	1-216-065-91	RES,CHIP 4.7K 5% 1/10W (KV-29SL42K/29SL42T/XL42T/29VL42T/27V42)		R259	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R213	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R260	1-216-025-91	RES,CHIP 100 5% 1/10W	
R214	1-216-113-00	RES,CHIP	470K 5% 1/10W	R261	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R215	1-216-033-00	RES,CHIP	220 5% 1/10W	R262	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R216	1-216-113-00	RES,CHIP	470K 5% 1/10W	R263	1-216-033-00	RES,CHIP 220 5% 1/10W	
R217	1-216-033-00	RES,CHIP	220 5% 1/10W	R264	1-216-033-00	RES,CHIP 220 5% 1/10W	
R218	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R265	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R219	1-216-073-00	RES,CHIP	10K 5% 1/10W	R266	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R220	1-216-073-00	RES,CHIP	10K 5% 1/10W	R267	1-216-022-00	RES,CHIP 75 5% 1/10W	
R221	1-216-073-00	RES,CHIP	10K 5% 1/10W	R269	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R222	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R270	1-216-022-00	RES,CHIP 75 5% 1/10W	
R223	1-216-073-00	RES,CHIP	10K 5% 1/10W	R271	1-216-113-00	RES,CHIP 470K 5% 1/10W	
R224	1-216-073-00	RES,CHIP	10K 5% 1/10W	R272	1-216-113-00	RES,CHIP 470K 5% 1/10W	
R225	1-216-073-00	RES,CHIP	10K 5% 1/10W	R273	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R226	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R274	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R228	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R275	1-216-295-91	SHORT	
R231	1-249-421-11	CARBON 2.2K 5% 1/4W (KV-29SL42K/29SL42T/XL42T)		R276	1-216-295-91	SHORT	
R231	1-249-426-11	CARBON 5.6K 5% 1/4W (KV-29VL42T/27V42)		R277	1-216-295-91	SHORT	
R232	1-249-429-11	CARBON 10K 5% 1/4W (KV-29SL42K/29SL42T/XL42T)		R278	1-216-295-91	SHORT (KV-27V66 ONLY)	
R233	1-249-429-11	CARBON 10K 5% 1/4W (KV-29SL42K/29SL42T/XL42T)		R279	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R234	1-216-063-91	RES,CHIP 3.9K 5% 1/10W (KV-29VL42T/27V42)		R280	1-247-807-31	CARBON 100 5% 1/4W (KV-29VL42T/27V42/27V66)	
R235	1-216-063-91	RES,CHIP 3.9K 5% 1/10W (KV-29VL42T/27V42)		R281	1-247-807-31	CARBON 100 5% 1/4W (KV-29VL42T/27V42/27V66)	

Note:

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R282	1-247-807-31	CARBON 100 (KV-29VL42T/27V42/27V66)	5% 1/4W	R326	1-216-033-00	RES,CHIP 220	5% 1/10W
R283	1-216-295-91	SHORT (KV-27V66 ONLY)		R328	1-216-025-91	RES,CHIP 100	5% 1/10W
R284	1-260-091-11	CARBON 220 (KV-29VL42T/27V42/27V66)	5% 1/2W	R329	1-216-025-91	RES,CHIP 100	5% 1/10W
R285	1-216-065-91	RES,CHIP 4.7K (KV-29VL42T/27V42/27V66)	5% 1/10W	R330	1-216-025-91	RES,CHIP 100	5% 1/10W
R286	1-216-065-91	RES,CHIP 4.7K (KV-29VL42T/27V42/27V66)	5% 1/10W	R331	1-216-025-91	RES,CHIP 100	5% 1/10W
R287	1-216-065-91	RES,CHIP 4.7K (KV-29VL42T/27V42/27V66)	5% 1/10W	R333	1-216-049-91	RES,CHIP 1K	5% 1/10W
R288	1-216-065-91	RES,CHIP 4.7K (KV-29VL42T/27V42/27V66)	5% 1/10W	R334	1-216-025-91	RES,CHIP 100	5% 1/10W
R289	1-216-021-00	RES,CHIP 68 (KV-29VL42T/27V42/27V66)	5% 1/10W	R335	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R290	1-216-113-00	RES,CHIP 470K (KV-29VL42T/27V42/27V66)	5% 1/10W	R336	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R291	1-216-113-00	RES,CHIP 470K (KV-29VL42T/27V42/27V66)	5% 1/10W	R337	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R292	1-216-113-00	RES,CHIP 470K (KV-29VL42T/27V42/27V66)	5% 1/10W	R339	1-216-295-91	SHORT	
R293	1-216-069-00	RES,CHIP 6.8K (KV-29VL42T/27V42/27V66)	5% 1/10W	R340	1-249-417-11	CARBON 1K	5% 1/4W
R294	1-216-069-00	RES,CHIP 6.8K (KV-29VL42T/27V42/27V66)	5% 1/10W	R341	1-216-073-00	RES,CHIP 10K	5% 1/10W
R295	1-216-069-00	RES,CHIP 6.8K (KV-29VL42T/27V42/27V66)	5% 1/10W	R342	1-216-069-00	RES,CHIP 6.8K	5% 1/10W
R296	1-249-437-11	CARBON 47K	5% 1/4W	R343	1-208-291-11	RES,CHIP 4.7M	5% 1/10W
R297	1-216-043-91	RES,CHIP 560	5% 1/10W	R344	1-216-295-91	SHORT	
R298	1-216-041-00	RES,CHIP 470	5% 1/10W	R345	1-208-291-11	RES,CHIP 4.7M	5% 1/10W
R299	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R346	1-208-291-11	RES,CHIP 4.7M	5% 1/10W
R301	1-216-295-91	SHORT		R347	1-216-049-91	RES,CHIP 1K	5% 1/10W
R304	1-216-073-00	RES,CHIP 10K	5% 1/10W	R348	1-216-031-00	RES,CHIP 180	5% 1/10W
R305	1-216-033-00	RES,CHIP 220	5% 1/10W	R349	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R306	1-208-806-11	RES,CHIP 10K	0.50% 1/10W	R350	1-208-766-11	RES,CHIP 220	0.50% 1/10W
R307	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R351	1-208-766-11	RES,CHIP 220	0.50% 1/10W
R308	1-216-025-91	RES,CHIP 100	5% 1/10W	R352	1-208-794-11	RES,CHIP 3.3K	0.50% 1/10W
R310	1-216-049-91	RES,CHIP 1K	5% 1/10W	R353	1-216-295-91	SHORT	
R312	1-216-033-00	RES,CHIP 220	5% 1/10W	R354	1-208-794-11	RES,CHIP 3.3K	0.50% 1/10W
R313	1-216-033-00	RES,CHIP 220	5% 1/10W	R355	1-216-025-91	RES,CHIP 100	5% 1/10W
R314	1-216-033-00	RES,CHIP 220	5% 1/10W	R356	1-216-059-00	RES,CHIP 2.7K	5% 1/10W
R315	1-216-033-00	RES,CHIP 220	5% 1/10W	R357	1-216-091-00	RES,CHIP 56K	5% 1/10W
R316	1-247-807-31	CARBON 100	5% 1/4W	R358	1-216-043-91	RES,CHIP 560	5% 1/10W
R317	1-216-025-91	RES,CHIP 100	5% 1/10W	R359	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R318	1-216-025-91	RES,CHIP 100	5% 1/10W	R360	1-216-049-91	RES,CHIP 1K	5% 1/10W
R319	1-216-073-00	RES,CHIP 10K	5% 1/10W	R361	1-216-049-91	RES,CHIP 1K	5% 1/10W
R320	1-216-025-91	RES,CHIP 100	5% 1/10W	R362	1-216-043-91	RES,CHIP 560	5% 1/10W
R321	1-216-025-91	RES,CHIP 100	5% 1/10W	R363	1-216-037-00	RES,CHIP 330	5% 1/10W
R322	1-216-025-91	RES,CHIP 100	5% 1/10W	R364	1-216-025-91	RES,CHIP 100	5% 1/10W
R323	1-216-037-00	RES,CHIP 330	5% 1/10W	R365	1-216-025-91	RES,CHIP 100	5% 1/10W
R324	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R366	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
R325	1-216-022-00	RES,CHIP 75	5% 1/10W	R367	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
				R368	1-216-033-00	RES,CHIP 220	5% 1/10W
				R369	1-216-041-00	RES,CHIP 470	5% 1/10W
				R370	1-216-033-00	RES,CHIP 220	5% 1/10W
				R372	1-216-035-00	RES,CHIP 270	5% 1/10W
				R373	1-216-025-91	RES,CHIP 100	5% 1/10W
				R374	1-216-025-91	RES,CHIP 100	5% 1/10W
				R375	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
				R376	1-216-049-91	RES,CHIP 1K	5% 1/10W
				R377	1-216-049-91	RES,CHIP 1K	5% 1/10W
				R378	1-216-033-00	RES,CHIP 220	5% 1/10W

A**Note:**

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

Note:

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	REF. NO.	PART NO.	DESCRIPTION	REMARK
R379	1-216-049-91	RES,CHIP 1K	5% 1/10W	R530	1-216-089-91	RES,CHIP 47K	5% 1/10W
R380	1-208-790-11	RES,CHIP 2.2K	0.50% 1/10W	R532	1-215-437-00	METAL 4.7K	1% 1/4W
R381	1-216-053-00	RES,CHIP 1.5K	5% 1/10W	R533	1-215-461-00	METAL 47K	1% 1/4W
R383	1-216-017-91	RES,CHIP 47	5% 1/10W	R534	1-215-451-00	METAL 18K	1% 1/4W
R384	1-216-097-91	RES,CHIP 100K	5% 1/10W	R535	1-249-441-11	CARBON 100K	5% 1/4W
R385	1-216-073-00	RES,CHIP 10K	5% 1/10W	R541	1-249-430-11	CARBON 12K	5% 1/4W
R386	1-216-061-00	RES,CHIP 3.3K	5% 1/10W	R542	1-249-429-11	CARBON 10K	5% 1/4W
R387	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R543	1-249-429-11	CARBON 10K	5% 1/4W
R390	1-249-417-11	CARBON 1K (KV-29VL42T/27V42/27V66)	5% 1/4W	R544	Δ 1-216-351-00	METAL 1.5	5% 1W
R391	1-216-073-00	RES,CHIP 10K (KV-29VL42T/27V42/27V66)	5% 1/10W	R546	Δ 1-215-890-11	METAL 470	5% 2W
R392	1-216-049-91	RES,CHIP 1K (KV-29VL42T/27V42/27V66)	5% 1/10W	R547	Δ 1-249-385-11	CARBON 2.2	5% 1/4W
R394	1-216-033-00	RES,CHIP 220 (KV-29VL42T/27V42/27V66)	5% 1/10W	R548	1-249-430-11	CARBON 12K	5% 1/4W
R395	1-216-049-91	RES,CHIP 1K (KV-29VL42T/27V42/27V66)	5% 1/10W	R549	1-249-429-11	CARBON 10K	5% 1/4W
R399	1-216-025-91	RES,CHIP 100	5% 1/10W	R550	1-216-061-00	RES,CHIP 3.3K	5% 1/10W
R400	1-216-081-00	RES,CHIP 22K (KV-29SL42K/29SL42T/XL42T/29VL42T/27V42)	5% 1/10W	R551	1-249-413-11	CARBON 470	5% 1/4W
R402	1-216-121-91	RES,CHIP 1M	5% 1/10W	R552	1-247-887-00	CARBON 220K	5% 1/4W
R403	1-216-033-00	RES,CHIP 220	5% 1/10W	R553	Δ 1-260-312-11	CARBON 47	5% 1/2W
R404	1-216-033-00	RES,CHIP 220	5% 1/10W	R554	1-216-101-00	RES,CHIP 150K	5% 1/10W
R407	1-216-295-91	SHORT (KV-29SL42K/29SL42T/XL42T/29VL42T/27V42)		R555	1-216-093-91	RES,CHIP 68K	5% 1/10W
R432	1-249-428-11	CARBON 8.2K (KV-29SL42K/29SL42T/XL42T/29VL42T/27V42)	5% 1/4W	R556	1-216-081-00	RES,CHIP 22K	5% 1/10W
R450	1-216-295-91	SHORT (KV-27V66 ONLY)		R557	1-249-431-11	CARBON 15K	5% 1/4W
R451	1-216-295-91	SHORT (KV-27V66 ONLY)		R558	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R502	Δ 1-215-892-11	METAL 1K	5% 2W	R559	1-216-121-91	RES,CHIP 1M	5% 1/10W
R503	Δ 1-249-426-11	CARBON 5.6K	5% 1/4W	R561	Δ 1-249-377-11	CARBON 0.47	5% 1/4W
R504	Δ 1-216-349-00	METAL 1	5% 1W	R562	Δ 1-260-288-11	CARBON 0.47	5% 1/2W
R505	1-249-401-11	CARBON 47	5% 1/4W	R571	Δ 1-216-365-00	METAL 0.47	5% 2W
R506	1-215-860-11	METAL 33	5% 1W	R572	Δ 1-249-429-11	CARBON 10K	5% 1/4W
R507	Δ 1-260-097-11	CARBON 680	5% 1/2W	R573	Δ 1-247-895-91	CARBON 470K	5% 1/4W
R508	Δ 1-216-449-11	METAL 56	5% 2W	R574	Δ 1-249-416-11	CARBON 820	5% 1/4W
R509	Δ 1-216-481-11	METAL 1.2K	5% 3W	R575	Δ 1-247-895-91	CARBON 470K	5% 1/4W
R510	Δ 1-216-449-11	METAL 56	5% 2W	R576	Δ 1-249-441-11	CARBON 100K	5% 1/4W
R511	1-247-843-11	CARBON 3.3K	5% 1/4W	R578	Δ 1-215-902-11	METAL 47K	5% 1W
R520	Δ 1-215-861-00	METAL 47	5% 1W	R579	1-208-777-11	RES,CHIP 620	0.50% 1/10W
R521	1-249-411-11	CARBON 330	5% 1/4W	R580	1-216-097-91	RES,CHIP 100K	5% 1/10W
R522	1-249-415-11	CARBON 680	5% 1/4W	R581	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R523	1-216-073-00	RES,CHIP 10K	5% 1/10W	R582	Δ 1-208-806-11	RES,CHIP 10K	0.50% 1/10W
R524	1-249-429-11	CARBON 10K	5% 1/4W	R583	Δ 1-208-830-11	RES,CHIP 100K	0.50% 1/10W
R525	1-249-427-11	CARBON 6.8K	5% 1/4W	\boxtimes R584	Δ 1-208-822-11	RES,CHIP 47K	0.50% 1/10W
R526	1-216-081-00	RES,CHIP 22K	5% 1/10W	R585	1-216-073-00	RES,CHIP 10K	5% 1/10W
R527	1-216-079-00	RES,CHIP 18K	5% 1/10W	R586	Δ 1-216-073-00	RES,CHIP 10K	5% 1/10W
R528	1-216-057-00	RES,CHIP 2.2K	5% 1/10W	R587	1-216-073-00	RES,CHIP 10K	5% 1/10W
R529	1-216-101-00	RES,CHIP 150K	5% 1/10W	R591	Δ 1-215-882-00	METAL 22	5% 2W
				R607	1-215-859-00	METAL 22	5% 1W
				R625	1-249-440-11	CARBON 82K	5% 1/4W
				R626	1-249-417-11	CARBON 1K	5% 1/4W
				R627	1-240-251-11	CMT,MELF 6.8	5% 10W
				R628	1-249-441-11	CARBON 100K	5% 1/4W
				R629	1-260-324-11	CARBON 470	5% 1/2W
				R630	1-249-429-11	CARBON 10K	5% 1/4W

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A

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R631	1-249-437-11	CARBON 47K	5% 1/4W	SWITCH			
R632	\triangle 1-202-933-61	FUSIBLE	10% 1/2W	S001	1-692-431-21	SWITCH,TACTILE (KV-29SL42K/29SL42T/XL42T)	
R633	1-215-479-00	METAL 270K (KV-29SL42K ONLY)	1% 1/4W	S002	1-692-431-21	SWITCH,TACTILE (KV-29SL42K/29SL42T/XL42T)	
R633	1-215-483-00	METAL 390K (KV-29SL42T/XL42T/29VL42T/27V42/27V66)	1% 1/4W	S003	1-692-431-21	SWITCH,TACTILE (KV-29SL42K/29SL42T/XL42T)	
R634	1-249-437-11	CARBON 47K	5% 1/4W	S004	1-692-431-21	SWITCH,TACTILE (KV-29SL42K/29SL42T/XL42T)	
R636	1-249-421-11	CARBON 2.2K	5% 1/4W	S005	1-692-431-21	SWITCH,TACTILE (KV-29SL42K/29SL42T/XL42T)	
R637	1-215-929-11	METAL 100K (KV-29SL42K/29VL42T)	5% 3W	S006	1-692-431-21	SWITCH,TACTILE (KV-29SL42K/29SL42T/XL42T)	
R638	1-215-479-00	METAL 270K (KV-29SL42K ONLY)	1% 1/4W	S007	1-692-431-21	SWITCH,TACTILE (KV-29SL42K/29SL42T/XL42T)	
R639	1-216-361-21	METAL 0.22	5% 2W	SWITCH			
R640	1-249-415-11	CARBON 680	5% 1/4W	SW501	1-572-707-11	SWITCH,LEVER	
R641	\triangle 1-216-387-11	METAL 0.68	5% 3W	TRANSFORMER			
R642	1-249-437-11	CARBON 47K	5% 1/4W	T501	1-437-210-11	TRANSFORMER,HORIZONTAL DRIVE	
R643	1-215-857-11	METAL 10	5% 1W	T502	1-431-731-11	TRANSFORMER,MODULATION	
R645	1-249-429-11	CARBON 10K	5% 1/4W	T504	\triangle 1-453-268-21	FBT ASSY,NX-4005/X4J4	
R646	1-216-485-11	METAL 5.6K	5% 3W	T603	\triangle 1-433-807-11	TRANSFORMER,REGULATOR (KV-29SL42K)	
R647	1-249-421-11	CARBON 2.2K	5% 1/4W	T603	\triangle 1-433-806-11	TRANSFORMER,REGULATOR (KV-29SL42T/XL42T/29VL42T/27V42/27V66)	
R649	1-249-417-11	CARBON 1K	5% 1/4W	THERMISTOR			
R650	1-249-415-11	CARBON 680	5% 1/4W	THP601	\triangle 1-803-540-11	THERMISTOR (KV-29SL42K ONLY)	
R651	1-249-419-11	CARBON 1.5K	5% 1/4W	THP602	\triangle 1-809-539-11	THERMISTOR,POSITIVE (KV-29SL42T/XL42T/29VL42T/27V42/27V66)	
R652	1-247-843-11	CARBON 3.3K	5% 1/4W	TUNER			
R653	\triangle 1-215-898-11	METAL 10K	5% 2W	TU101	\triangle 8-598-475-00	FSS TUNER BTF-WL411 (KV-29SL42K ONLY)	
R654	1-249-419-11	CARBON 1.5K	5% 1/4W	TU101	\triangle 8-598-477-00	FSS TUNER BTF-WG411 (KV-29SL42T/XL42T/29VL42T)	
R656	1-249-402-11	CARBON 56 (KV-29SL42K)	5% 1/4W	TU101	\triangle 8-598-431-00	TUNER,FSS BTF-WA411 (KV-27V42/27V66)	
R656	1-249-399-11	CARBON 33 (KV-29SL42T/XL42T/29VL42T/27V42/27V66)	5% 1/4W	CRYSTAL			
R657	1-249-417-11	CARBON 1K	5% 1/4W	X001	1-767-487-11	VIBRATOR,CRYSTAL	
R658	1-249-421-11	CARBON 2.2K	5% 1/4W	X301	1-567-505-11	OSCILLATOR,CRYSTAL	
R659	1-216-362-11	METAL 0.27	5% 2W				
R660	1-249-429-11	CARBON 10K	5% 1/4W				
R662	1-249-417-11	CARBON 1K	5% 1/4W				
R664	1-249-417-11	CARBON 1K	5% 1/4W				
R665	1-249-429-11	CARBON 10K	5% 1/4W				
R672	1-216-485-11	METAL 5.6K	5% 3W				
R673	1-249-421-11	CARBON 2.2K	5% 1/4W				
R674	1-247-863-91	CARBON 22K	5% 1/4W				
R675	\triangle 1-216-387-11	METAL 0.68	5% 3W				
R676	1-216-485-11	METAL 5.6K	5% 3W				
RELAY							
RY602	\triangle 1-755-266-11	RELAY,AC POWER					
RY603	\triangle 1-755-018-11	RELAY					



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REF. NO.	PART NO.	DESCRIPTION	REMARK
C			
* A-1331-920-A		C BOARD, COMPLETE (KV-29SL42K/42T/29XL42T)	
4-382-854-11		SCREW(M3X10),P,SW(+)	
CAPACITOR			
C1751	1-107-652-11	ELECT	10 μ F 20% 250V
C1752	1-162-114-00	CERAMIC	0.0047 μ F 2KV
C1755	1-107-667-11	ELECT	2.2 μ F 20% 160V
CONNECTOR			
CN1751	* 1-564-509-11	PLUG,CONNECTOR	6P
CN1752	* 1-564-508-11	PLUG,CONNECTOR	5P
CN1753	1-784-281-11	TAB(CONTACT)	
CN1754	1-695-915-11	TAB(CONTACT)	
DIODE			
D1754	8-719-901-83	DIODE 1SS83	
D1755	8-719-901-83	DIODE 1SS83	
D1756	8-719-901-83	DIODE 1SS83	
D1758	8-719-302-43	DIODE EL1Z	
IC			
IC1751	8-759-562-43	IC TDA6108JF/N1B	
JACK			
J1751	Δ 1-251-688-11	SOCKET,CRT	
COIL			
L1751	1-408-613-31	INDUCTOR	68 μ H
RESISTOR			
R1756	1-260-099-11	CARBON	1K 5% 1/2W
R1757	1-260-099-11	CARBON	1K 5% 1/2W
R1758	1-260-099-11	CARBON	1K 5% 1/2W
R1759	1-260-087-11	CARBON	100 5% 1/2W
R1760	1-260-123-11	CARBON	100K 5% 1/2W
R1761	1-216-373-11	METAL	2.2 5% 2W F

REF. NO.	PART NO.	DESCRIPTION	REMARK
R1762	1-216-375-00	METAL	3.3 5% 2W F
R1763	1-247-807-31	CARBON	100 5% 1/4W
R1764	1-247-807-31	CARBON	100 5% 1/4W
R1765	1-247-807-31	CARBON	100 5% 1/4W
R1770	1-260-132-11	CARBON	560K 5% 1/2W
CV			
* A-1331-921-A		CV BOARD, COMPLETE (KV-27V42/66/29VL42T)	
4-382-854-11		SCREW (M3X10),P,SW(+)	
CAPACITOR			
C944	1-102-129-00	CERAMIC	0.01 μ F 10% 50V
C945	1-102-110-00	CERAMIC	220PF 10% 50V
C946	1-104-665-11	ELECT	100 μ F 20% 25V
C949	1-161-830-00	CERAMIC	0.0047 μ F 500V
C950	1-126-941-11	ELECT	470 μ F 20% 25V
C951	1-107-645-11	ELECT	22 μ F 20% 160V
C952	1-104-999-11	MYLAR	0.1 μ F 10% 200V
C953	1-106-383-00	MYLAR	0.047 μ F 10% 200V
C954	1-130-471-00	FILM	0.001 μ F 5% 50V
C955	1-107-667-11	ELECT	2.2 μ F 20% 160V
C956	1-130-471-00	FILM	0.001 μ F 5% 50V
C957	1-106-383-00	MYLAR	0.047 μ F 10% 200V
C958	1-126-941-11	ELECT	470 μ F 20% 25V
C1701	1-107-652-11	ELECT	10 μ F 20% 250V
C1702	1-162-114-00	CERAMIC	0.0047 μ F 2KV
C1705	1-107-667-11	ELECT	2.2 μ F 20% 160V
C1941	1-126-941-11	ELECT	470 μ F 20% 25V
C1948	1-102-121-00	CERAMIC	0.0022 μ F 10% 50V
CONNECTOR			
CN942	* 1-564-507-11	PLUG,CONNECTOR 4P	
CN1701	* 1-564-509-11	PLUG,CONNECTOR 6P	
CN1702	* 1-564-511-11	PLUG,CONNECTOR 8P	
CN1703	1-784-281-11	TAB(CONTACT)	
CN1704	1-695-915-11	TAB(CONTACT)	
DIODE			
D941	8-719-991-33	DIODE 1SS133T-77	
D946	8-719-110-88	DIODE RD39ESB2	
D947	8-719-110-88	DIODE RD39ESB2	
D1704	8-719-901-83	DIODE 1SS83	
D1705	8-719-901-83	DIODE 1SS83	

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D1706	8-719-901-83	DIODE 1SS83		R1714	1-247-807-31	CARBON 100	5% 1/4W F
D1708	8-719-302-43	DIODE EL1Z		R1715	1-247-807-31	CARBON 100	5% 1/4W
IC				R1720	1-260-132-11	CARBON 560K	5% 1/2W
IC1701	8-759-562-43	IC TDA6108JF/N1B		R1941	1-260-312-11	CARBON 47	5% 1/2W
JACK				R1942	1-249-387-11	CARBON 3.3	5% 1/4W
J1701 Δ	1-251-688-11	SOCKET, CRT		R1943	1-249-414-11	CARBON 560	5% 1/4W
COIL				R1944	1-249-432-11	CARBON 18K	5% 1/4W F
L1701	1-408-613-31	INDUCTOR 68 μ H		R1945	1-215-915-11	METAL 470	5% 3W F
TRANSISTOR				R1946	1-249-417-11	CARBON 1K	5% 1/4W
Q943	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1947	1-249-432-11	CARBON 18K	5% 1/4W F
Q944	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1948	1-249-414-11	CARBON 560	5% 1/4W F
Q945	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1949	1-249-387-11	CARBON 3.3	5% 1/4W
Q946	8-729-017-05	TRANSISTOR 2SA1837		R1950	1-249-401-11	CARBON 47	5% 1/4W
Q947	8-729-017-06	TRANSISTOR 2SC4793		E			
Q965	8-729-119-78	TRANSISTOR 2SC2785-HFE		* A-1343-654-A	E BOARD, COMPLETE		
Q966	8-729-119-76	TRANSISTOR 2SA1175-HFE		* A-1343-656-A	E BOARD, COMPLETE (KV-29SL42K ONLY)		
RESISTOR				1-533-223-11	HOLDER,FUSE		
R943	1-247-807-31	CARBON 100	5% 1/4W	* 4-374-846-11	COVER,CAPACITOR,CAP TYPE		
R948	1-249-417-11	CARBON 1K	5% 1/4W	CAPACITOR			
R949	1-249-421-11	CARBON 2.2K	5% 1/4W	C5002	1-107-679-91	ELECT 10 μ F	20% 450V
R950	1-249-417-11	CARBON 1K	5% 1/4W	C5003	1-136-601-11	FILM 0.01 μ F	10% 630V
R951	1-249-417-11	CARBON 1K	5% 1/4W	C5004	1-130-471-00	MYLAR 0.001 μ F	5% 50V
R952	1-249-413-11	CARBON 470	5% 1/4W	C5006	1-130-471-00	MYLAR 0.001 μ F	5% 50V
R953	1-249-403-11	CARBON 68	5% 1/4W	C5007	1-130-467-00	MYLAR 470PF	5% 50V
R954	1-247-815-91	CARBON 220	5% 1/4W	C5008	1-130-471-00	MYLAR 0.001 μ F	5% 50V
R955	1-249-416-11	CARBON 820	5% 1/4W	C5009	1-126-965-11	ELECT 22 μ F	20% 50V
R956	1-247-807-31	CARBON 100	5% 1/4W	C5010	1-115-804-91	ELECT 120 μ F	20% 35V
R957	1-249-429-11	CARBON 10K	5% 1/4W	C5020 Δ	1-113-941-11	CERAMIC 0.0047 μ F	20% 125V
R958	1-247-807-31	CARBON 100	5% 1/4W	C5021 Δ	1-113-924-11	CERAMIC 0.0047 μ F	20% 250V (KV-29SL42K ONLY)
R959	1-249-403-11	CARBON 68	5% 1/4W	C5050 Δ	1-136-311-11	FILM 0.47 μ F	20% 125V
R977	1-249-397-11	CARBON 22	5% 1/4W	C5150 Δ	1-136-311-11	FILM 0.47 μ F	20% 125V (ALL EXCEPT KV-29SL42K)
R979	1-249-401-11	CARBON 47	5% 1/4W	C5643	1-113-924-11	CERAMIC 0.0047 μ F	20% 250V
R1706	1-260-099-11	CARBON 1K	5% 1/2W F	C5644	1-113-924-11	CERAMIC 0.0047 μ F	20% 250V
R1707	1-260-099-11	CARBON 1K	5% 1/2W	CONNECTOR			
R1708	1-260-099-11	CARBON 1K	5% 1/2W	CN5000	* 1-580-843-11	PIN,CONNECTOR(POWER)	
R1709	1-260-087-11	CARBON 100	5% 1/2W	CN5001	* 1-564-506-11	PLUG,CONNECTOR 3P	
R1710	1-260-123-11	CARBON 100K	5% 1/2W	CN5002	* 1-580-843-11	PIN,CONNECTOR(POWER)	
R1711	1-216-373-11	METAL 2.2	5% 2W	CN5003	* 1-508-786-00	PIN,CONNECTOR(5MM PITCH) 2P	
R1712	1-216-375-00	METAL 3.3	5% 2W				
R1713	1-247-807-31	CARBON 100	5% 1/4W F				



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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
DIODE				VARISTOR							
D5003	8-719-948-45	DIODE ERA22-08		VDR505	1-803-585-11	VARISTOR					
D5004	8-719-991-33	DIODE 1SS133T-77		VDR505	1-803-587-11	VARISTOR (KV-29SL42K ONLY)					
D5005	8-719-991-33	DIODE 1SS133T-77		<div style="border: 1px solid black; padding: 5px; display: inline-block;">HV</div>							
D5006	8-719-109-93	DIODE RD6.2ESB2									
D5007	8-719-510-48	DIODE D1N20R									
D5008	8-719-063-70	DIODE D1NL20U									
D5631	8-719-911-55	DIODE U05G									
D5632	8-719-911-55	DIODE U05G									
FUSE								* A-1372-614-A HV BOARD, COMPLETE (KV-27V42/66/29VL42T)			
F5050	\triangle 1-576-193-11	FUSE 6.3A/125V						CAPACITOR			
F5050	\triangle 1-532-506-51	FUSE 6.3A/250V (KV-29SL42K ONLY)						C1407	1-137-194-91	FILM	0.47 μ F 5% 50V
TRANSISTOR								C1408	1-136-287-11	FILM	0.0047 μ F 5% 50V
Q5001	8-729-044-30	TRANSISTOR 2SK2845-LB102		C1409	1-137-194-81	FILM	0.47 μ F 5% 50V				
Q5002	8-729-119-78	TRANSISTOR 2SC2785-HFE		C1410	1-126-964-11	ELECT	10 μ F 20% 50V				
RESISTOR				C1411	1-126-964-11	ELECT	10 μ F 20% 50V				
R5001	1-249-389-11	CARBON	4.7 5% 1/4W	C1412	1-126-964-11	ELECT	10 μ F 20% 50V				
R5002	1-215-485-00	METAL	470K 1% 1/4W	C1413	1-126-964-11	ELECT	10 μ F 20% 50V				
R5003	1-240-205-91	CARBON	22M 5% 1/2W F	C1415	1-126-968-11	ELECT	100 μ F 20% 50V				
R5007	1-249-421-11	CARBON	2.2K 5% 1/4W	C1416	1-106-375-12	MYLAR	0.022 μ F 20% 200V				
R5008	1-249-429-11	CARBON	10K 5% 1/4W	C1417	1-137-414-11	FILM	0.0047 μ F 10% 100V				
R5009	1-249-437-11	CARBON	47K 5% 1/4W	C1418	1-102-114-00	CERAMIC	470PF 10% 50V				
R5010	1-249-415-11	CARBON	680 5% 1/4W	C1419	1-130-495-00	FILM	0.1 μ F 5% 50V				
R5011	1-260-302-51	CARBON	6.8 5% 1/2W	C1420	1-137-371-11	FILM	0.015 μ F 5% 50V				
R5012	1-249-417-11	CARBON	1K 5% 1/4W	C1421	1-102-121-00	CERAMIC	0.0022 μ F 10% 50V				
R5013	1-249-415-11	CARBON	680 5% 1/4W	C1422	1-137-414-11	FILM	0.0047 μ F 10% 100V				
R5050	1-219-512-11	CARBON	2.2M 5% 1/2W	C1423	1-137-194-91	FILM	0.47 μ F 5% 50V				
R5350	\triangle 1-219-513-11	CARBON	4.7M 5% 1/2W	C1424	1-130-495-00	FILM	0.1 μ F 5% 50V				
R5350	\triangle 1-247-289-00	CARBON	8.2M 5% 1W (KV-29SL42K ONLY)	C1425	1-137-370-11	FILM	0.01 μ F 5% 50V				
TRANSFORMER				C1426	1-130-495-00	FILM	0.1 μ F 5% 50V				
T5001	\triangle 1-431-852-11	TRANSFORMER, CONVERTER (SRT)		C1427	1-137-370-11	FILM	0.01 μ F 5% 50V				
T5050	\triangle 1-426-717-11	TRANSFORMER, LINE FILTER (LFT)		C1428	1-130-495-00	FILM	0.1 μ F 5% 50V				
T5050	\triangle 1-424-220-11	TRANSFORMER, LINE FILTER (LFT) (KV-29SL42K ONLY)		C1429	1-137-370-11	FILM	0.01 μ F 5% 50V				
THERMISTOR				C1430	1-126-964-11	ELECT	10 μ F 20% 50V				
TH506	1-803-586-11	THERMISTOR		C1431	1-136-287-11	FILM	0.0047 μ F 5% 50V				
				C1432	1-126-964-11	ELECT	10 μ F 20% 50V				
				C1433	1-106-355-12	MYLAR	0.0033 μ F 10% 100V				
				C1434	1-106-379-12	MYLAR	0.033 μ F 10% 100V				
				C1435	1-126-964-11	ELECT	10 μ F 20% 50V				
				C1436	1-126-964-11	ELECT	10 μ F 20% 50V				
				C1437	1-126-964-11	ELECT	10 μ F 20% 50V				
				C1438	1-106-355-12	MYLAR	0.0033 μ F 10% 100V				
				C1439	1-106-379-12	MYLAR	0.033 μ F 10% 100V				
				C1440	1-126-964-11	ELECT	10 μ F 20% 50V				
				C1443	1-126-964-11	ELECT	10 μ F 20% 50V				
				C2068	1-104-665-11	ELECT	100 μ F 20% 25V				
				C2234	1-126-960-11	ELECT	1 μ F 20% 50V				

Note:

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Note:

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C2235	1-126-960-11	ELECT	1 μ F 20% 50V	R1424	1-249-429-11	CARBON	10K 5% 1/4W
C2236	1-106-343-00	MYLAR	0.001 μ F 10% 200V	R1425	1-249-429-11	CARBON	10K 5% 1/4W
CONNECTOR				R1426	1-249-429-11	CARBON	10K 5% 1/4W
CN1405	* 1-564-510-11	PLUG,CONNECTOR	7P	R1427	1-249-429-11	CARBON	10K 5% 1/4W
CN1406	* 1-564-506-11	PLUG,CONNECTOR	3P	R1428	1-249-429-11	CARBON	10K 5% 1/4W
CN2001	* 1-564-506-11	PLUG,CONNECTOR	3P	R1429	1-249-429-11	CARBON	10K 5% 1/4W
CN2201	* 1-564-508-11	PLUG,CONNECTOR	5P	R1430	1-215-461-00	METAL	47K 1% 1/4W
CN2202	* 1-564-510-11	PLUG,CONNECTOR	7P	R1431	1-249-429-11	CARBON	10K 5% 1/4W
DIODE				R1432	1-249-429-11	CARBON	10K 5% 1/4W
D2001	8-719-110-17	DIODE RD10ESB2		R1433	1-249-429-11	CARBON	10K 5% 1/4W
D2006	1-810-039-11	LED UNIT		R1434	1-215-445-00	METAL	10K 1% 1/4W
D2235	8-719-110-17	DIODE RD10ESB2		R1435	1-249-431-11	CARBON	15K 5% 1/4W
D2236	8-719-110-17	DIODE RD10ESB2		R1440	1-249-429-11	CARBON	10K 5% 1/4W
IC				R1441	1-249-429-11	CARBON	10K 5% 1/4W
IC1403	8-759-496-03	IC NJM2178L		R1442	1-249-429-11	CARBON	10K 5% 1/4W
IC1404	8-759-496-02	IC NJM2150D		R1443	1-249-429-11	CARBON	10K 5% 1/4W
IC2003	8-742-014-11	HYB IC SBX1981-51		R2236	1-247-895-91	CARBON	470K 5% 1/4W
JACK				R2238	1-247-895-91	CARBON	470K 5% 1/4W
J2231	1-691-110-11	JACK,PIN 3P		K			
RESISTOR				* A-1380-608-A K BOARD, COMPLETE (KV-27V66 ONLY) 4-382-854-11 SCREW(M3X10),P,SW(+)			
R1403	1-215-437-00	METAL	4.7K 1% 1/4W	CAPACITOR			
R1404	1-249-419-11	CARBON	1.5K 5% 1/4W	C1001	1-126-968-11	ELECT	100 μ F 20% 50V
R1405	1-249-424-11	CARBON	3.9K 5% 1/4W	C1002	1-104-664-11	ELECT	47 μ F 20% 25V
R1406	1-249-437-11	CARBON	47K 5% 1/4W	C1003	1-126-964-11	ELECT	10 μ F 20% 50V
R1407	1-249-435-11	CARBON	33K 5% 1/4W	C1004	1-126-934-11	ELECT	220 μ F 20% 16V
R1408	1-215-469-00	METAL	100K 1% 1/4W	C1006	1-137-368-11	FILM	0.0047 μ F 5% 50V
R1409	1-249-417-11	CARBON	1K 5% 1/4W	C1007	1-126-960-11	ELECT	1 μ F 20% 50V
R1410	1-215-461-00	METAL	47K 1% 1/4W	C1401	1-126-957-11	ELECT	0.22 μ F 20% 50V
R1411	1-249-429-11	CARBON	10K 5% 1/4W	C1402	1-126-957-11	ELECT	0.22 μ F 20% 50V
R1412	1-249-427-11	CARBON	6.8K 5% 1/4W	C1403	1-126-943-11	ELECT	2200 μ F 20% 25V
R1413	1-249-427-11	CARBON	6.8K 5% 1/4W	C1404	1-126-943-11	ELECT	2200 μ F 20% 25V
R1414	1-249-429-11	CARBON	10K 5% 1/4W	C1405	1-126-382-11	ELECT	100 μ F 20% 16V
R1415	1-249-429-11	CARBON	10K 5% 1/4W	C1406	1-126-382-11	ELECT	100 μ F 20% 16V
R1416	1-249-429-11	CARBON	10K 5% 1/4W	C1450	1-136-171-00	FILM	0.33 μ F 5% 50V
R1417	1-249-429-11	CARBON	10K 5% 1/4W	C1451	1-136-171-00	FILM	0.33 μ F 5% 50V
R1419	1-249-441-11	CARBON	100K 5% 1/4W	C1452	1-137-367-11	FILM	0.0033 μ F 5% 50V
R1420	1-249-429-11	CARBON	10K 5% 1/4W	C1453	1-137-367-11	FILM	0.0033 μ F 5% 50V
R1421	1-249-441-11	CARBON	100K 5% 1/4W	CONNECTOR			
R1422	1-249-429-11	CARBON	10K 5% 1/4W	CN1002	* 1-564-507-11	PLUG,CONNECTOR	4P
R1423	1-249-441-11	CARBON	100K 5% 1/4W	CN1003	* 1-564-511-11	PLUG,CONNECTOR	8P
				CN1004	* 1-564-509-11	PLUG,CONNECTOR	6P



Note:

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Note:

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REF. NO.	PART NO.	DESCRIPTION	REMARK
CN1400	* 1-564-507-11	PLUG,CONNECTOR	4P
CN1401	* 1-564-506-11	PLUG,CONNECTOR	3P
CN1402	* 1-564-510-11	PLUG,CONNECTOR	7P
IC			
IC1400	8-759-498-09	IC TDA1519AQU	
IC1401	8-759-498-09	IC TDA1519AQU	
COIL			
L1001	1-408-421-00	INDUCTOR	100 μ H
L1002	1-410-470-11	INDUCTOR	10 μ H
IC LINK			
PS1400	1-532-984-11	LINK,IC	2A/90V
PS1401	1-532-984-11	LINK,IC	2A/90V
TRANSISTOR			
Q1001	8-729-119-78	TRANSISTOR	2SC2785-HFE
Q1002	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q1003	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q1004	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q1006	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q1400	8-729-119-78	TRANSISTOR	2SC2785-HFE
RESISTOR			
R1001	1-247-807-31	CARBON	100 5% 1/4W
R1002	1-247-807-31	CARBON	100 5% 1/4W
R1003	1-249-434-11	CARBON	27K 5% 1/4W
R1004	1-249-436-11	CARBON	39K 5% 1/4W
R1006	1-249-419-11	CARBON	1.5K 5% 1/4W
R1007	1-247-863-91	CARBON	22K 5% 1/4W
R1008	1-247-863-91	CARBON	22K 5% 1/4W
R1009	1-247-863-91	CARBON	22K 5% 1/4W
R1010	1-247-863-91	CARBON	22K 5% 1/4W
R1011	1-249-414-11	CARBON	560 5% 1/4W
R1012	1-249-414-11	CARBON	560 5% 1/4W
R1013	1-247-807-31	CARBON	100 5% 1/4W
R1016	1-247-863-91	CARBON	22K 5% 1/4W
R1017	1-247-863-91	CARBON	22K 5% 1/4W
R1401	1-249-429-11	CARBON	10K 5% 1/4W
R1402	1-249-437-11	CARBON	47K 5% 1/4W
R1433	1-249-421-11	CARBON	2.2K 5% 1/4W
R1434	1-249-429-11	CARBON	10K 5% 1/4W
R1435	1-249-429-11	CARBON	10K 5% 1/4W
R1436	1-249-421-11	CARBON	2.2K 5% 1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R1437	1-247-863-91	CARBON	22K 5% 1/4W
R1450	1-249-422-11	CARBON	2.7K 5% 1/4W
R1451	1-249-422-11	CARBON	2.7K 5% 1/4W
R1452	1-249-429-11	CARBON	10K 5% 1/4W
R1453	1-249-429-11	CARBON	10K 5% 1/4W
TUNER			
TU1002 Δ	8-598-430-00	FSS TUNER BTF-FA401	
P			
* A-1195-154-A P BOARD COMPLETE (KV-27V66 ONLY)			
CAPACITOR			
C3301	1-163-031-11	CERAMIC	0.01 μ F 50V
C3302	1-163-031-11	CERAMIC	0.01 μ F 50V
C3303	1-104-664-11	ELECT	47 μ F 20% 16V
C3304	1-163-031-11	CERAMIC	0.01 μ F 50V
C3305	1-163-135-00	CERAMIC	560PF 5% 50V
C3306	1-163-038-91	CERAMIC	0.1 μ F 25V
C3307	1-163-038-91	CERAMIC	0.1 μ F 25V
C3308	1-164-222-11	CERAMIC	0.22 μ F 25V
C3309	1-163-034-00	CERAMIC	0.033 μ F 50V
C3310	1-164-222-11	CERAMIC	0.22 μ F 25V
C3311	1-163-233-11	CERAMIC	18PF 5% 50V
C3314	1-163-031-11	CERAMIC	0.01 μ F 50V
C3315	1-163-031-11	CERAMIC	0.01 μ F 50V
C3316	1-163-133-00	CERAMIC	470PF 5% 50V
C3317	1-163-133-00	CERAMIC	470PF 5% 50V
C3323	1-104-664-11	ELECT	47 μ F 20% 16V
C3324	1-163-031-11	CERAMIC	0.01 μ F 50V
C3325	1-163-031-11	CERAMIC	0.01 μ F 50V
C3326	1-104-664-11	ELECT	47 μ F 20% 16V
C3327	1-104-664-11	ELECT	47 μ F 20% 16V
C3328	1-104-664-11	ELECT	47 μ F 20% 16V
C3330	1-126-964-11	ELECT	10 μ F 20% 50V
C3334	1-164-005-11	CERAMIC	0.47 μ F 25V
C3335	1-163-009-11	CERAMIC	0.001 μ F 10% 50V
C3336	1-163-031-11	CERAMIC	0.01 μ F 50V
C3339	1-163-005-11	CERAMIC	470PF 10% 50V
CONNECTOR			
CN3301	* 1-691-632-21	CONNECTOR,BOARD TO BOARD	15P

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P

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
DIODE							
D3301	8-719-404-50	DIODE MA111-TX		R3342	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
D3304	8-719-422-12	DIODE MA8039		R3343	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
				R3344	1-216-073-00	RES,CHIP 10K	5% 1/10W
				R3345	1-216-073-00	RES,CHIP 10K	5% 1/10W
				R3346	1-216-295-91	SHORT	
				R3347	1-216-049-91	RES,CHIP 1K	5% 1/10W
				R3348	1-216-049-91	RES,CHIP 1K	5% 1/10W
				R3349	1-215-857-11	METAL 10	5% 1W F
				R3351	1-216-041-00	RES,CHIP 470	5% 1/10W
				R3352	1-216-295-91	SHORT	
IC							
IC3301	8-759-575-99	IC M65669FP-D60S		R3357	1-216-041-00	RES,CHIP 470	5% 1/10W
				R3358	1-216-689-11	RES,CHIP 39K	5% 1/10W
				R3359	1-216-113-00	RES,CHIP 470K	5% 1/10W
				R3360	1-216-051-00	RES,CHIP 1.2K	5% 1/10W
				R3361	1-216-045-00	RES,CHIP 1.5K	5% 1/10W
				R3365	1-216-073-00	RES,CHIP 10K	5% 1/10W
				R3366	1-216-049-91	RES,CHIP 1K	5% 1/10W
				R3367	1-216-073-00	RES,CHIP 10K	5% 1/10W
				R3368	1-216-049-91	RES,CHIP 1K	5% 1/10W
				CRYSTAL			
				X3301	1-781-377-11	OSCILLATOR,CRYSTAL	
COIL							
L3301	1-410-682-31	INDUCTOR	470 μ H				
L3302	1-414-267-11	INDUCTOR	10 μ H				
L3303	1-414-267-11	INDUCTOR	10 μ H				
TRANSISTOR							
Q3304	8-729-216-22	TRANSISTOR	2SA1162-G				
Q3305	8-729-216-22	TRANSISTOR	2SA1162-G				
Q3306	8-729-216-22	TRANSISTOR	2SA1162-G				
Q3309	8-729-422-27	TRANSISTOR	2SD601A-Q				
Q3310	8-729-422-27	TRANSISTOR	2SD601A-Q				
Q3311	8-729-111-55	TRANSISTOR	2SD1312-K				
Q3312	8-729-216-22	TRANSISTOR	2SA1162-G				
Q3313	8-729-422-27	TRANSISTOR	2SD601A-Q				
Q3314	8-729-422-27	TRANSISTOR	2SD601A-Q				
RESISTOR							
R3301	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		
R3302	1-216-121-91	RES,CHIP	1M	5%	1/10W		
R3303	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		
R3304	1-216-133-00	RES,CHIP	820K	5%	1/10W		
R3305	1-216-037-00	RES,CHIP	330	5%	1/10W		
R3308	1-216-085-00	RES,CHIP	33K	5%	1/10W		
R3309	1-216-025-91	RES,CHIP	100	5%	1/10W		
R3310	1-216-025-91	RES,CHIP	100	5%	1/10W		
R3311	1-216-037-00	RES,CHIP	330	5%	1/10W		
R3312	1-216-043-91	RES,CHIP	680	5%	1/10W		
R3313	1-216-035-00	RES,CHIP	330	5%	1/10W		
R3316	1-216-295-91	SHORT					
R3317	1-216-295-91	SHORT					
R3318	1-216-061-00	RES,CHIP	3.3K	5%	1/10W		
R3319	1-216-295-91	SHORT					
R3328	1-216-295-91	SHORT					
R3329	1-216-033-00	RES,CHIP	220	5%	1/10W		
R3333	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R3334	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R3335	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R3336	1-216-295-91	SHORT					
R3338	1-216-295-91	SHORT					
R3340	1-216-295-91	SHORT					

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<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>	<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
PACKAGING AND ACCESSORIES							
4-041-255-01		BAG,PROTECTION					
4-065-733-02		CARTON,INDIVIDUAL (KV-27V66CND/27V42/27V66/29VL42T)					
4-064-065-01		CARTON,INDIVIDUAL (KV-29XL42T/29SL42K/29SL42T)					
4-064-071-01		CUSHION ASSY, LOWER (KV-29XL42T/29SL42T/29SL42K)					
4-064-069-02		CUSHION ASSY, UPPER (KV-29XL42T/29SL42K/29SL42T)					
4-054-062-02		CUSHION(LOWER)(ASSY) (KV-27V66 CND/27V42/29VL42T/27V66)					
4-054-059-04		CUSHION(UPPER)(ASSY) (KV-27V66/27V42/27V66CND/29VL42T)					
1-475-069-21		REMOTE COMMANDER, (RM-Y149A) (KV-29SL42K)					
1-475-801-11		REMOTE COMMANDER, (RM-Y165) (KV-27V42/29VL42T/29SL42T/29XL42T)					
1-475-802-11		REMOTE COMMANDER, (RM-Y167) (KV-27V66)					
3-866-074-21		MANUAL,INSTRUCTION (KV-27V66 US/27V42)					
3-861-907-21		MANUAL,INSTRUCTION (KV-27V66 CND)					
3-861-907-31		MANUAL,INSTRUCTION (KV-27V66 CND)					
3-866-935-61		MANUAL,INSTRUCTION (KV-29SL42K)					
3-866-524-71		MANUAL,INSTRUCTION (KV-29VL42T/29XL42T/29SL42T)					
4-978-977-01		BATTERY COVER, REMOTE					
8-598-414-20		CHANGER,ANTENNAAS-2F (KV-27V66 ONLY)					

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Sony Technology Center
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Service Promotion Department

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