

KV-27EXR20/27EXR25

RM-Y103

RM-Y104

SERVICE MANUAL

US Model

KV-27EXR20

Chassis No. SCC-D50E-A

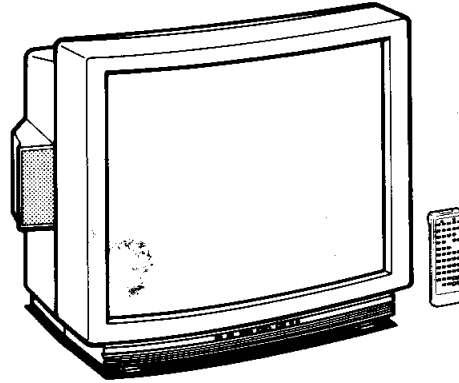
KV-27EXR25

Chassis No. SCC-D50F-A

Canadian Model

KV-27EXR25

Chassis No. SCC-D61C-A



ANU-2 CHASSIS

MODELS OF THE SAME SERIES

| | |
|------------------|--|
| KV-27EXR20/EXR25 | |
| KV-27EXR10/EXR15 | |
| | |

SPECIFICATIONS

Television system American TV standards
Channel coverage VHF: 2 - 13
 UHF: 14 - 69
 Cable TV: 1 - 125

Picture tube Microblack™ Trinitron® tube
 27-inch picture measured diagonally
 28-inch picture tube measured diagonally

Antenna 75-ohm external antenna terminal for VHF/UHF

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

Output VIDEO 2 OUT
 Video (phono jack): 75-ohms unbalanced, sync negative
 Audio (phono jacks): Impedance: 10 kilohms

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

Speaker output 5 W × 2
Power requirements 120 V AC, 60 Hz
Power consumption

| | Max. | Standby |
|------------|-------|---------|
| KV-27EXR20 | 160 W | 1.5 W |
| KV-27EXR25 | 165 W | |

Supplied accessories

(KV-27EXR20)
 Remote commander RM-Y103 with 2 size AA (R6) batteries (1)
 (KV-27EXR25)
 Remote commander RM-Y104 with 2 size AA (R6) batteries (1)
 Antenna connector (1)

Recommended accessories

U/V mixer EAC-66
 Connecting cable VMC-810/820S, YC-15 V/30 V
 Video rack SU-275

Dimensions 659.0 × 594.3 × 508.5 mm
 (W × H × D)

Weight 49.0 kg

Design and specifications are subject to change without notice.



TRINITRON® COLOR TV
SONY®

D09-023

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(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 TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

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

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHASSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISE LORS DE TOUT DEPANNAGE.
 LE CHASSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDE A L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MAPQUE Δ SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES CONT 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 EST SUSPECTE.

SAFETY CHECK-OUT

(US Model only)

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

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

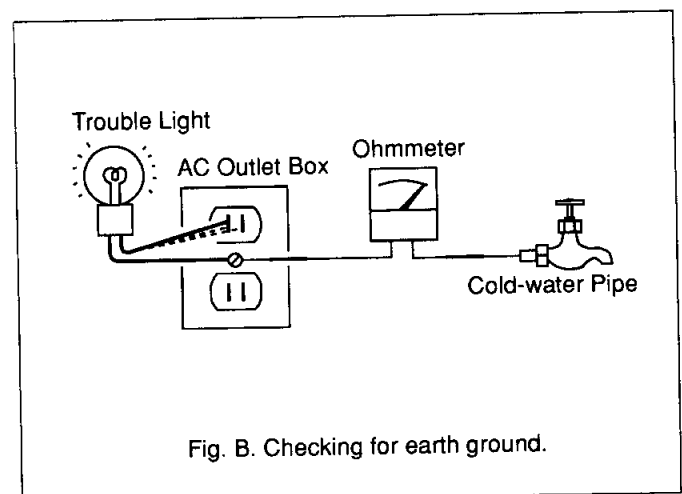
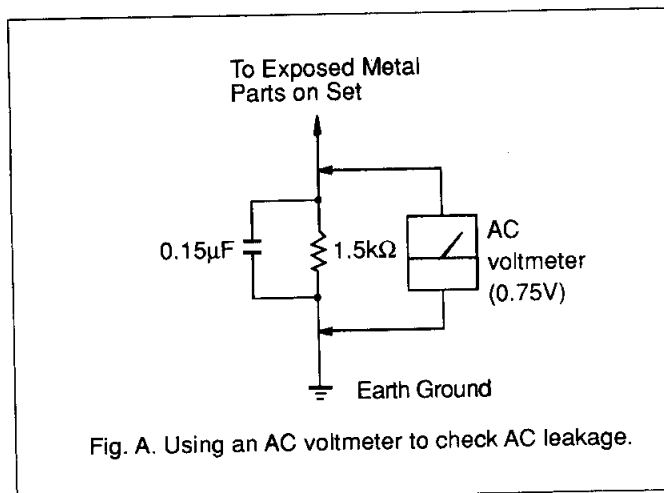
LEAKAGE

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 microamperes). Leakage current can be measured by any one of three methods.

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

HOW TO FIND A GOOD EARTH GROUND

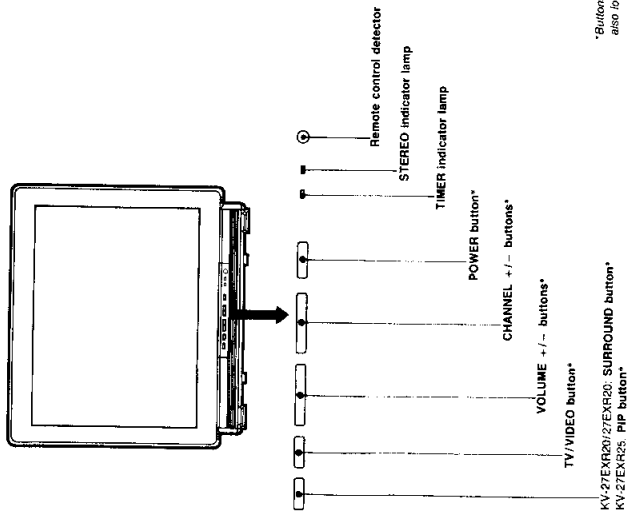
A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a coldwater pipe with an ohmmeter. The reading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



SECTION 1 GENERAL

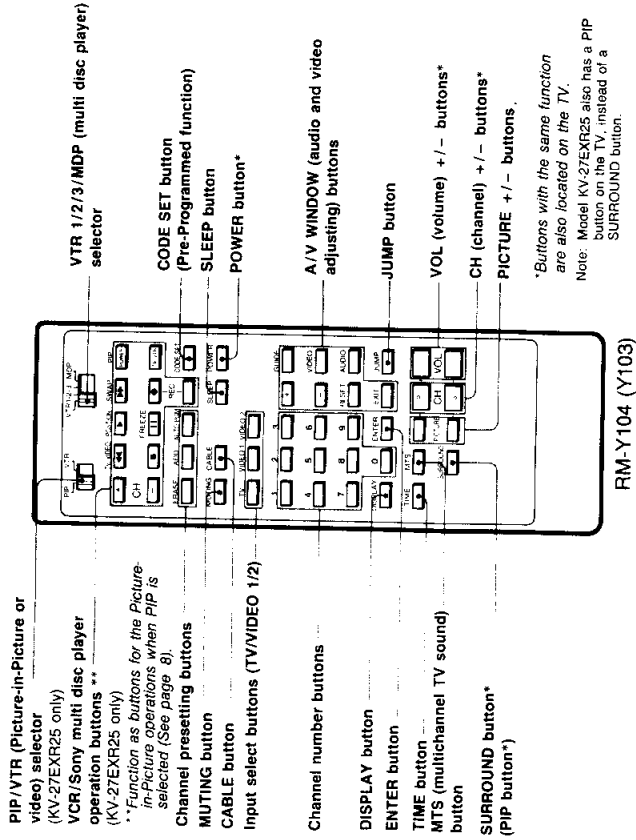
1-1. LOCATION OF CONTROLS

Front panel

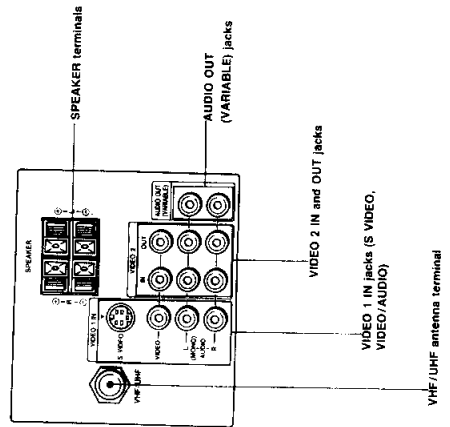


*Buttons with the same function are also located on the commander.

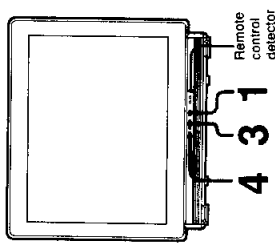
Universal Remote Commander



Rear Panel



1-3. WATCHING TV PROGRAMS



1 Press **POWER** on the TV or the remote commander to turn the TV on.

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

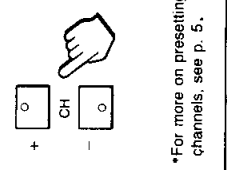
To view VHF or UHF channels

To view cable TV channels

If "VIDEO 1" or "VIDEO 2" is displayed on the screen, press the TV/VIDEO button on the TV or the TV button on the remote commander so that a channel number appears.

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

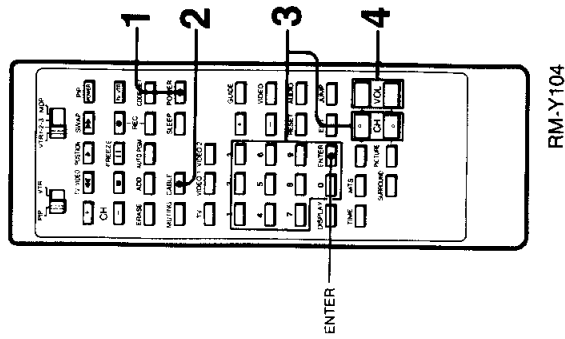
To scan the preset channels* in numerical sequence, press CH +/-.



*For more on presetting channels, see p. 5.

4 Press **VOL +** or **-** to adjust the volume.

To turn off the TV Press **POWER** on the TV or the remote commander again.

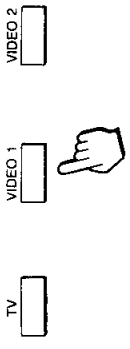


1-4. ADJUSTING PICTURE AND SOUND QUALITY

You can set different picture and sound quality levels for each input mode by changing the input mode (TV/VIDEO 1/2) before setting. These settings will be retained even when you turn the TV off.

Adjusting the Picture

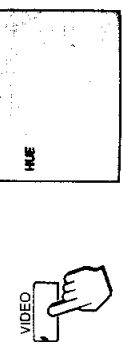
1 Select the input mode you want to adjust with the TV/VIDEO 1/2 buttons.



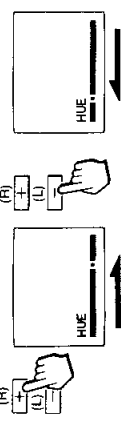
2 Press **VIDEO**.



3 Press **VIDEO** repeatedly until the quality you want to adjust blinks.



4 Press **+** (R) or **-** (L) to make the adjustment.



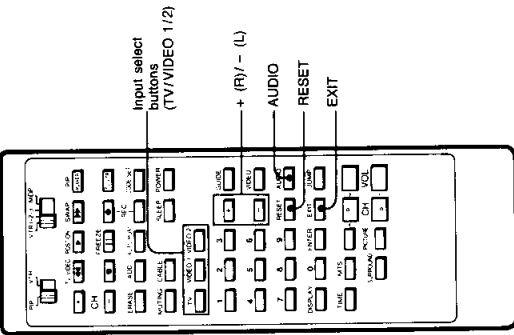
| | | |
|-----------------|----------------------------|----------------------------|
| Picture quality | Press - (L) button | Press + (R) button |
| HUE | Skin tones become purplish | Skin tones become greenish |
| COLOR | For less color intensity | For more color intensity |
| BRIGHT | For less brightness | For more brightness |
| SHARP | For less sharpness | For more sharpness |

The display will disappear automatically after a few seconds.

The SHARP Control has no effect with a window picture. (PIP function — KV-27EXR25 only)

Adjusting the Sound

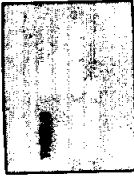
1 Select the input mode you want to adjust with the TV/VIDEO 1/2 buttons.



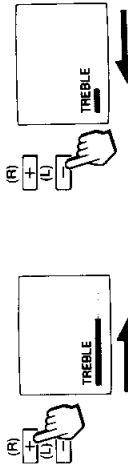
2 Press AUDIO.



3 Press AUDIO repeatedly until the quality you want to adjust blinks.



4 Press + (R) or - (L) to make the adjustment.



| Sound quality | Press - (L) button | Press + (R) button |
|---------------|--|---|
| TREBLE | To decrease treble response | To increase treble response |
| BASS | To decrease bass response | To increase bass response |
| BALANCE | To emphasize the left speaker's volume | To emphasize the right speaker's volume |

The display will disappear automatically after a few seconds.

Picture Contrast adjustment

Press to increase picture contrast with vivid color.

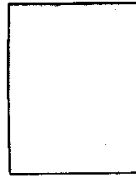


Press to decrease picture contrast with soft color.

Note
The picture contrast level cannot be stored under each input mode.

To restore the factory (mid-level) settings

Press RESET.



The display will disappear after a few seconds.

To restore the normal picture
Press EXIT.

NOTCH filter setting

Press VIDEO.

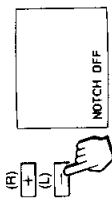


Normally, set to NOTCH OFF. If dots or stripes appear while you are watching an image from a computer or video source, set to NOTCH ON.

To set NOTCH filter ON.



Press +.

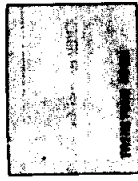


To set NOTCH filter OFF.

Press -.

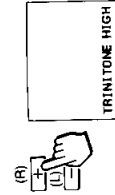
TRINITONE adjustment

Press VIDEO.

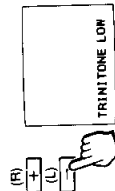


Color picture tubes are usually manufactured with a fixed color temperature (int) that determines the "warmth" (red int) or "coolness" (blue int) of the picture. With Sony's Trinitone feature, you can adjust the picture color to your preference.

For bright white



For soft white



TRINITONE HIGH
The factory preset whiteness level will be restored.

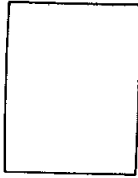
TRINITONE LOW
A touch of red will be added to the white areas.

1-5. USING PICTURE-IN-PICTURE (KV-27EXR25 ONLY)

Picture-in-Picture controls

To restore the factory (mid-level) settings

Press RESET.



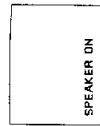
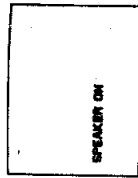
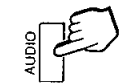
The display will disappear after a few seconds.

To restore the normal picture

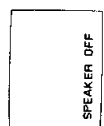
Press EXIT.

SPEAKER ON

Press AUDIO.



To use the speakers connected to the SPEAKER terminals.

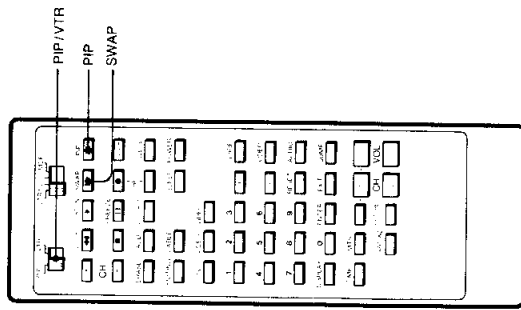


To use an audio system connected to the AUDIO OUT jacks.

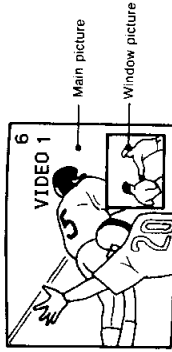
This function is included only with model KV-27EXR25.

Besides the main picture, you can watch a video source simultaneously as a window picture.

For example, use Picture-in-Picture when you want to watch a TV program and also a video source from connected equipment (VCR, video disc player, etc.). If you connect a VCR, you can watch two different TV programs at the same time.



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Note

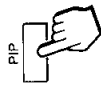
If the main picture is blocked, Picture-in-Picture does not function. Press EXIT to cancel CHANNEL BLOCK.

To display a window picture — PIP

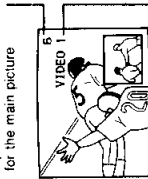
- 1 Set the PIP/VTR selector to PIP.



- 2 Press PIP.



Input source mode or TV channel for the main picture



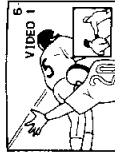
Input source mode or TV channel for the window picture

To swap the main and window pictures — SWAP

- 1 Set the PIP/VTR selector to PIP.



- 2 Press PIP to display a window picture.



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

Picture-in-Picture also functions when the main picture is in the VIDEO mode.

To make the window picture disappear

Press PIP again.

To scan channels in the window picture

Press CH +/- on the remote commander.

To change the input mode of a window picture

Press TV/VIDEO on the remote commander. Each time you press this button, TV, VIDEO 1 or VIDEO 2 mode will be selected in sequence.

Notes on the sub picture

- You cannot hear the sound of the window picture channel.
- If a window picture is blocked, the "BLOCKED" display will appear on the main screen.

To change the position of the window picture — POSITION

- 1 Set the PIP/VTR selector to PIP.

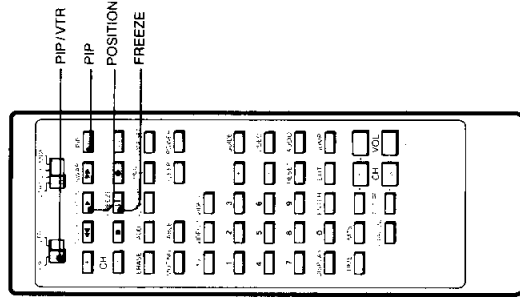
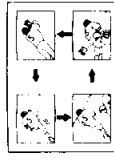


- 2 Press PIP to display a window picture.



- 3 Press POSITION.

Each time POSITION is pressed, the window picture will move counterclockwise on the screen as illustrated.

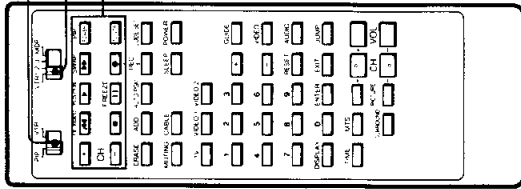


RM-Y104

1-6. USING THE UNIVERSAL REMOTE COMMANDER

You can operate other video equipment that has an infrared remote detector with the supplied RM-Y104 or RM-Y103 remote commander.

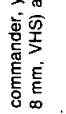
Operating Sony Video Equipment



RM-Y104

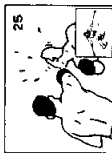


1 Set the PIP/VTR selector to PIP.



1 Set the PIP/VTR selector to VTR.
(KV-27EXR25 only)

2 Press PIP to display a window picture.



3 Press FREEZE.
The window picture will freeze.

Use this feature when you want to write down the recipe of a cooking program or a displayed toll free number, etc.



To restore the normal picture
Press FREEZE again.

Note
The broadcast will be progressing normally while the still picture is on the screen.

2 Set the VTR 1/2/3/MDP selector according to the video equipment you want to operate.



| If you want to operate a: | set to: |
|---------------------------|---------|
| Beta, ED Beta VCR | VTR 1 |
| 8 mm VCR | VTR 2 |
| VHS VCR | VTR 3 |
| Video disc player | MDP |

3 Use the video operating buttons to operate video equipment.

Operating a Video Cassette Recorder

- To record Press ●
- To play Press ▶
- To stop Press ■
- To fast forward Press ►►
- To rewind the tape Press ◀◀
- To freeze a picture Press ■■

To resume normal playback, press again.
Keep pressing ►► or ◀◀ during playback.
To resume normal playback, release the button.

Operating a Video Disc Player

- To play Press ▶
- To stop Press ■
- To freeze a picture Press ■■

To resume normal playback, press again.
*This function is effective only for CAV (standard-play disc). With CLV (extended-play disc), the projector will go into the standby mode if ■ is pressed.

To search the picture forward and backward Keep pressing ►► or ◀◀ during playback.
To resume normal playback, release the button.

Caution

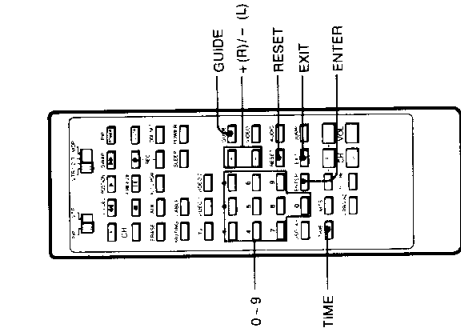
When you replace the batteries, do it within approximately 30 minutes. Otherwise, Sony settings and all of the settings you made under the Pre-Programmed function may be erased.

Notes

- If you use only Sony video equipment with your TV, you can operate that equipment following the steps on this page only. However, if you use other makers' video equipment as well as Sony's, please follow the steps instead (Pre-Programmed function).
- If the video equipment does not have a certain function, the corresponding button on this remote commander will not operate.

1-7. USING THE GUIDE FUNCTION (on-screen menu)

The GUIDE function calls up the on-screen menu, giving instructions on how to set the current time, TIMER and CHANNEL BLOCK.



RM-Y104

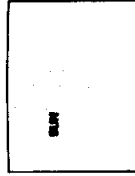
Setting the Clock

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

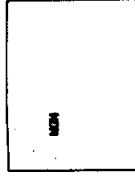
1 Press GUIDE.
Press repeatedly until the "CURRENT TIME SET" display turns red.



2 Press ENTER.

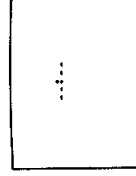


3 Press + / - until the desired day of the week appears.



4 Press ENTER.

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



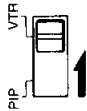
- All settings will be erased from the TV's memory if the TV is unplugged, or if a power failure occurs.
- The ON/OFF TIMER and CHANNEL BLOCK will operate only if the clock is set correctly.

Operating Non-Sony or Sony Video Equipment (Pre-Programmed Function)

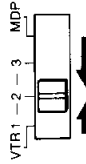
With the supplied remote commander, you can operate non-Sony or Sony video equipment as shown below.

Example: To operate an RCA video cassette recorder when you set the VTR 1/2/3/MDP selector to VTR 2.

1 Set the PIP/VTR selector to VTR. (KV-27EXR25 only)



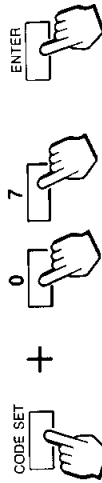
2 Set the VTR 1/2/3/MDP selector to VTR 2.



You can use the VTR 1/2/3 settings, but not MDP. By employing these three settings, you can use your remote commander to operate up to 3 pieces of equipment.

To use a Sony VTR, set the selector to a position not being used for your Sony video equipment.

3 While pressing CODE SET, press the number buttons for your manufacturer's code number (see chart). For RCA, press 0, 7 and ENTER.

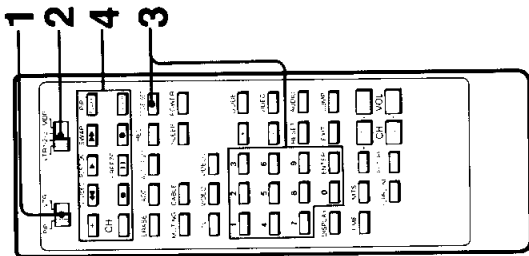


Now you can operate the video equipment with the supplied remote commander.

Notes

- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- If you enter a new code number, the code number previously entered at that setting will be erased.

4 Use the video operating buttons to operate video equipment.

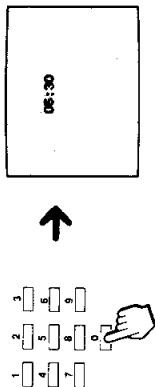


RM-Y104

Manufacturers and Code Numbers (VCR)

| MANUFACTURER | CODE |
|------------------|----------------|
| SONY | 01, 02, 03 |
| EMERSON | 22, 28, 30, 33 |
| SHARP | 13, 14 |
| RCA | 07, 08 |
| HITACHI | 07 |
| FUNAI | 29 |
| MAGNAVOX | 05, 06, 09 |
| MITSUBISHI | 18, 19, 26, 27 |
| PANASONIC | 05 |
| GENERAL ELECTRIC | 05 |
| JVC | 16 |
| GOLDSTAR | 25, 21 |
| TOSHIBA | 20, 21 |
| SYLVANIA | 05, 06, 09 |
| ZENITH | 17 |
| SANYO | 11, 15 |
| QUASAR | 05 |
| NEC | 16, 23, 31 |
| PHILIPS | 05, 06, 09 |
| TOTE VISION | 25 |
| SAMSUNG | 24, 32 |
| SYMPHONIC | 29 |
| FISHER | 10, 11, 12 |
| TEKNIKA | 28, 29 |
| CANON | 05 |
| PHILCO | 05, 06 |
| SCOTT | 21 |
| MULTITECH | 29 |

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



6 Press ENTER.

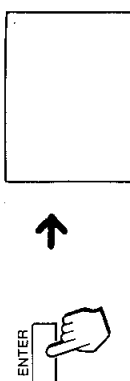


7 Press +/- to set AM or PM.



8 Press ENTER.

The moment ENTER is pressed, the clock will start.
A display will appear indicating that the clock has been set, and will disappear after about 5 seconds.



To restore the normal picture
Press EXIT.

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

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

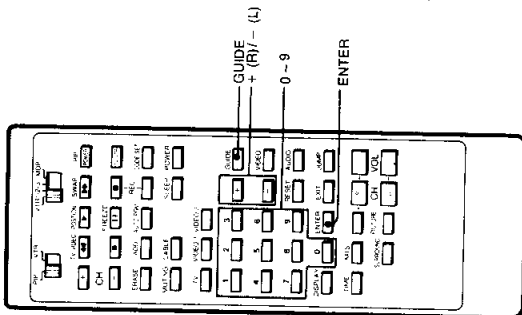
To display the current time
Press TIME.

Notes

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

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

- The internal clock returns to the factory-set condition if the TV is unplugged, or if a power failure occurs. Reset the current time.



RM-Y104

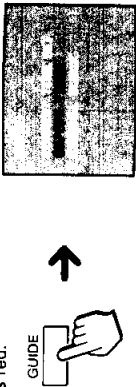
Setting the ON/OFF Timer

Set the ON/OFF timer to make the program of your choice appear on the screen at the chosen time.

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

1 Press GUIDE.

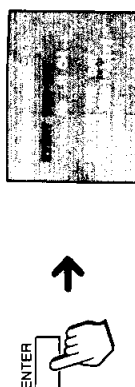
Press repeatedly until the "ON/OFF TIMER" display turns red.



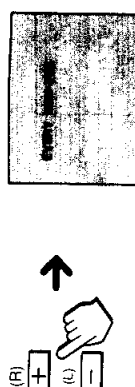
2 Press ENTER.

Instructions for selecting the day appear.

(If the clock has not been set, "PLEASE SET CURRENT TIME FIRST" appears on the screen. Go back to page 11 — Setting the Clock.)



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

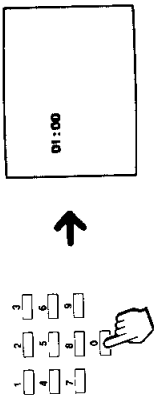


4 Press ENTER.

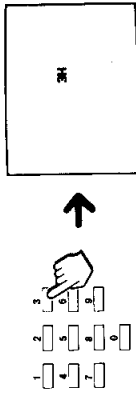
Instructions for setting the time appear.



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



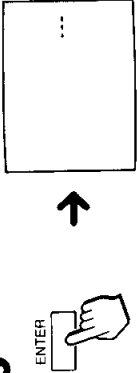
9 Press a channel number button to set the duration. (Up to 9 hours can be set.)



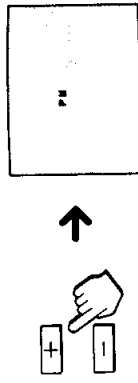
6 Press ENTER.



10 Press ENTER.



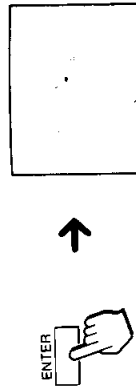
7 Press +/- to set AM or PM.



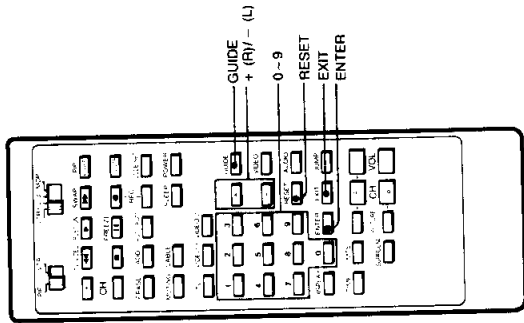
11 Press 0 - 9 to set the desired channel number.



8 Press ENTER.



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



RIM-Y104

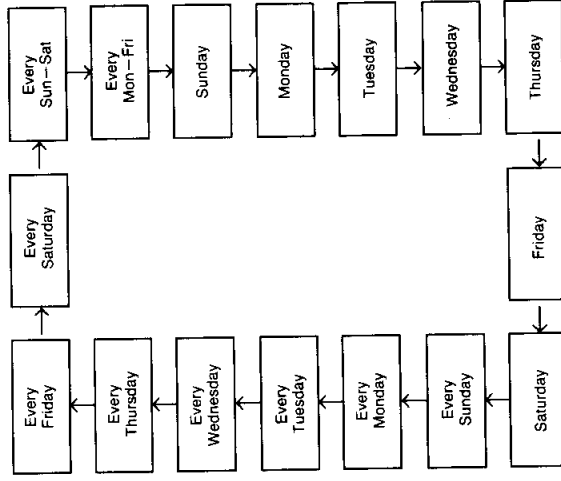
To restore the normal picture
Press EXIT.

To clear the setting
Display the "ON/OFF TIMER" page and press RESET, then EXIT.

To reset the setting
Display the "ON/OFF TIMER" page and press RESET, then repeat steps 3 to 12.
The "TIMER WILL BE OFF" indication will appear one minute before the timer goes off.

Notes

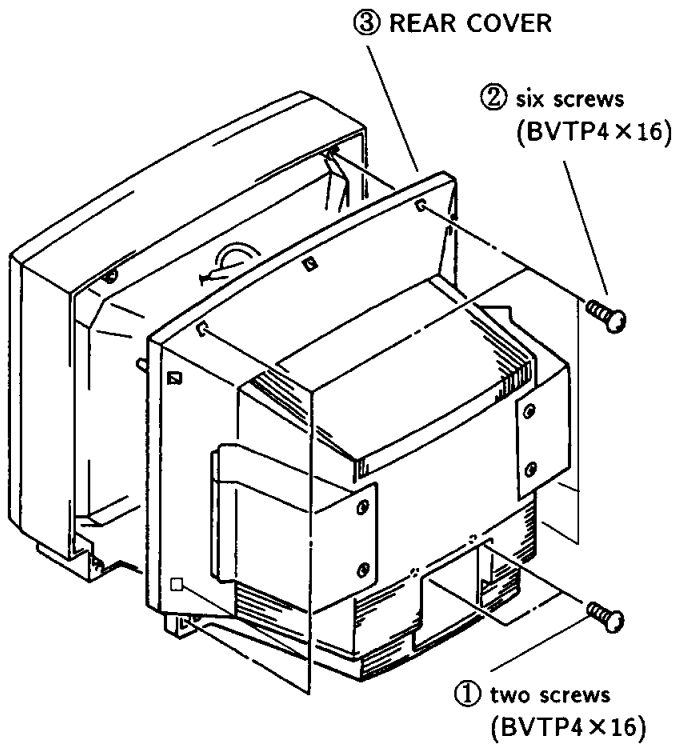
- Power back-up is not available. Both the clock and timer settings will be erased if a power failure occurs. Reset the current time, then set the timer.
- The selectable days will appear in the following order when you press [+]:



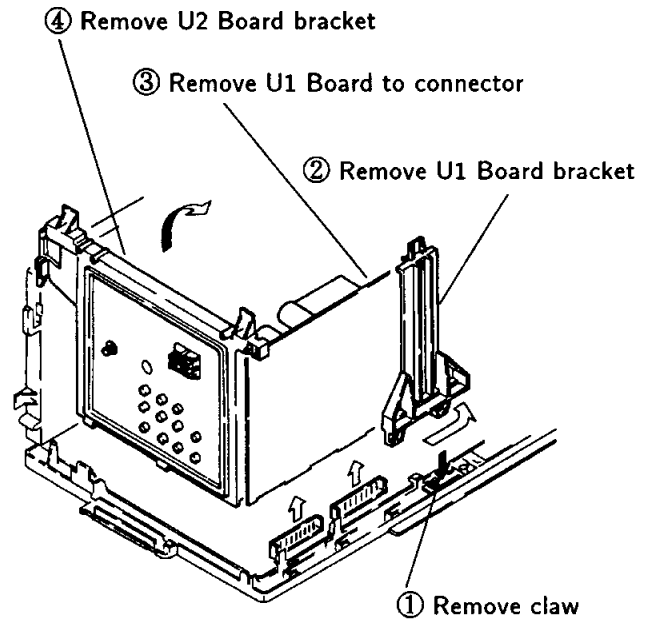
Press [-] to move in the reverse direction.

SECTION 2 DISASSEMBLY

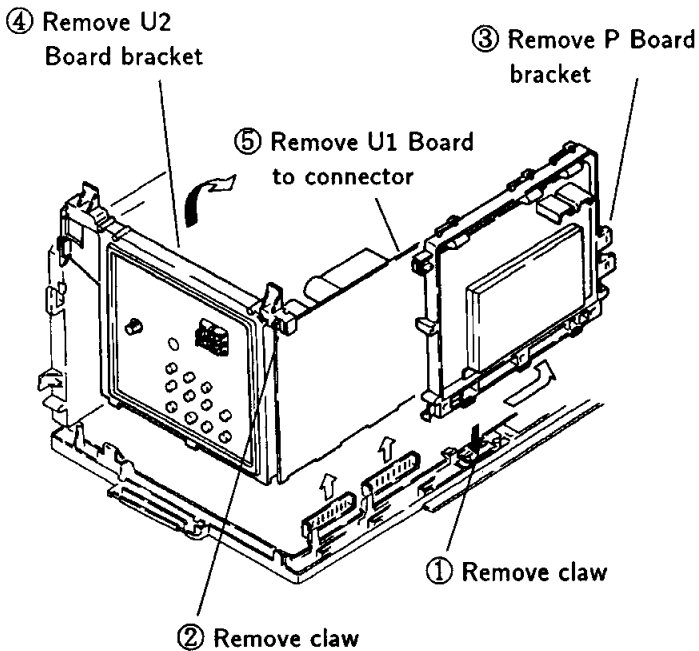
2-1. REAR COVER REMOVAL



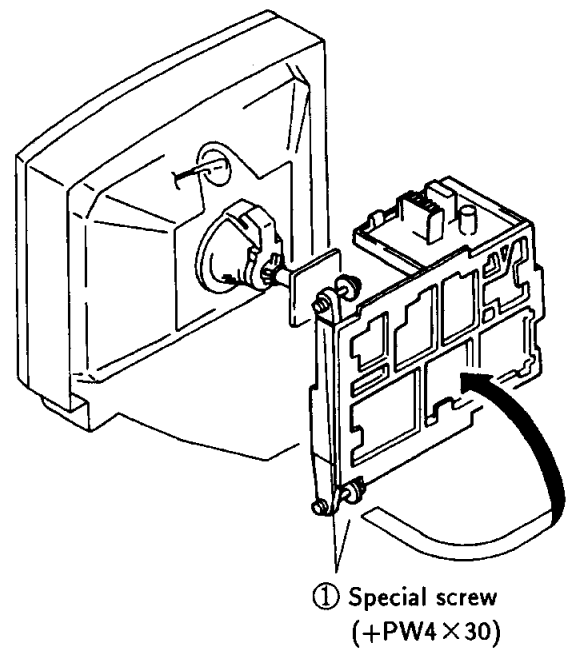
2-2. U1 BOARD AND U2 BOARD REMOVAL (KV-27EXR20)



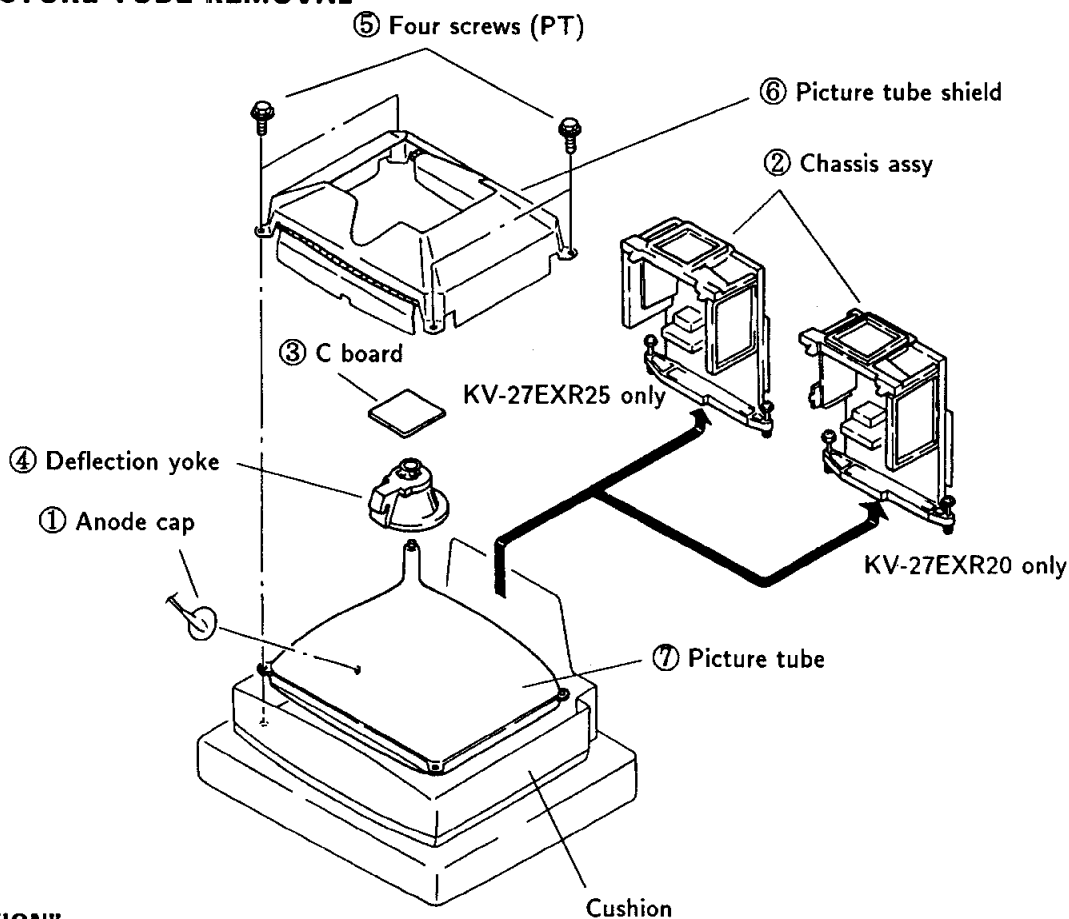
2-3. U1 BOARD, U2 BOARD AND P BOARD REMOVAL (KV-27EXR25)



2-4. SERVICE POSITION



2-5. PICTURE TUBE REMOVAL



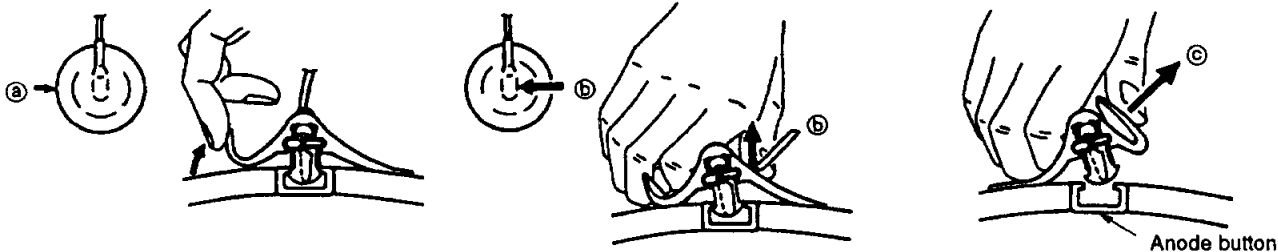
“CAUTION”

TO AVOID AN ELECTRIC SHOCK FROM CHARGED HIGH VOLTAGE OF PICTURE TUBE.

• **REMOVAL OF ANODE-CAP**

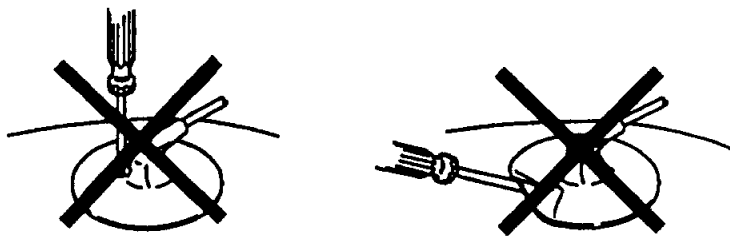
Short circuit the anode of the picture tube and the anode cap to the metal chassis, picture tube shield or carbon painted on the picture tube, after removing the anode.

• **REMOVING PROCEDURES**



• **HOW TO HANDLE AN ANODE-CAP**

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



SECTION 3 SET-UP ADJUSTMENTS

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

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

PICTURE control To 80% (Full)
BRIGHTNESS control RESET position

Perform the adjustments in order as follows:

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

Note: Test Equipment Required.

1. Pattern Generator
2. Degausser
3. Digital multimeter

Preparation:

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.

3-1. BEAM LANDING

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

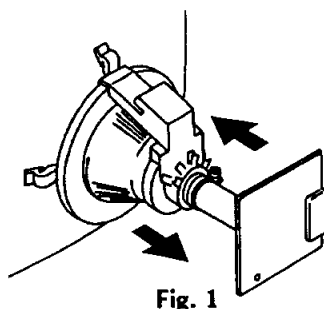


Fig. 1

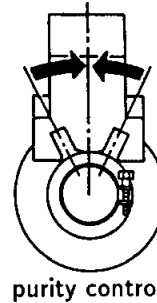


Fig. 2

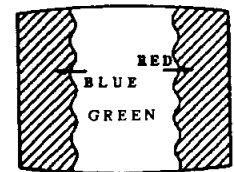


Fig. 3

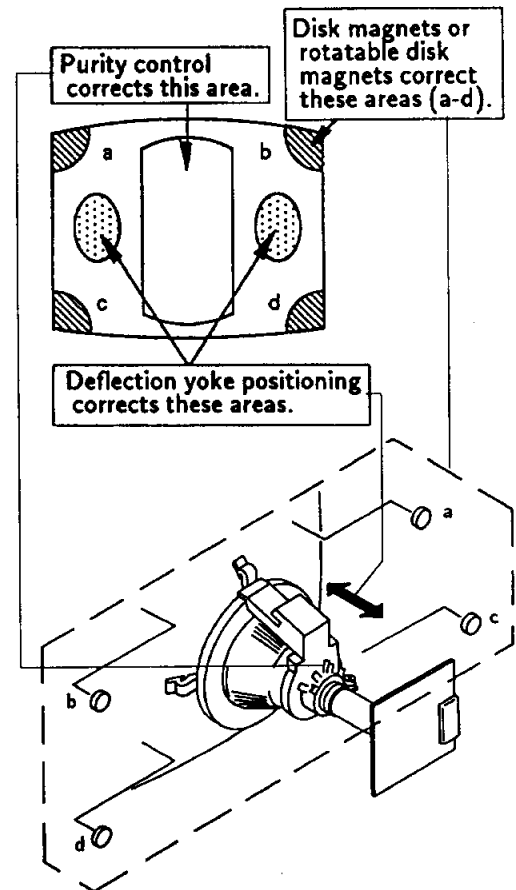


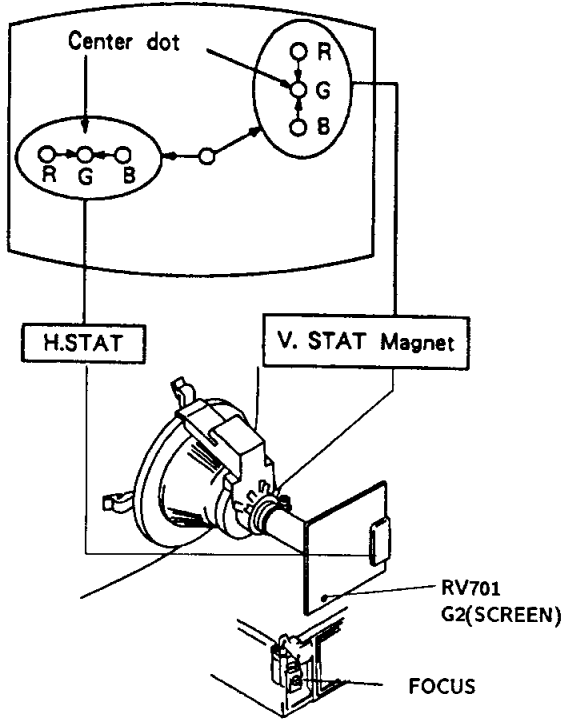
Fig. 4

3-2. CONVERGENCE

Preparation

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

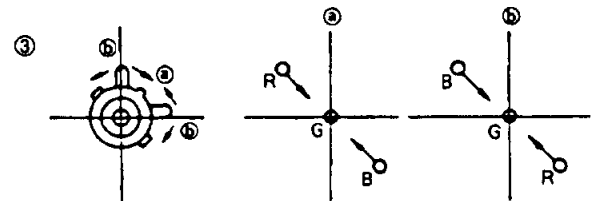
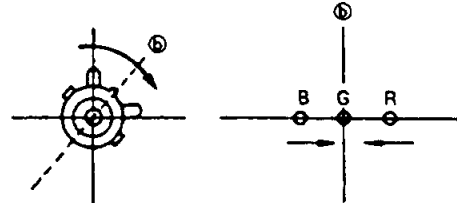
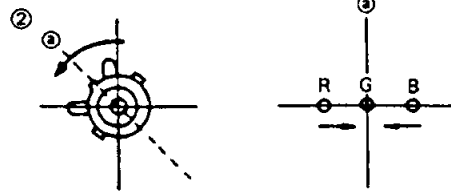
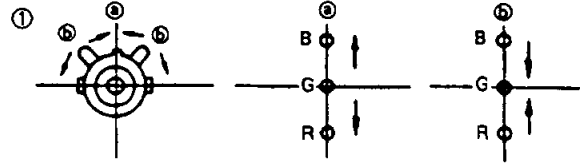
(1) Horizontal and Vertical Static Convergence



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



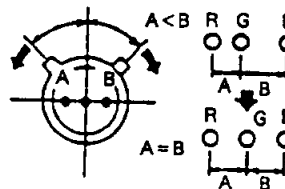
4. When the V.STAT magnet is moved in the direction of arrow (a) and (b), red, green and blue dots move as shown below.



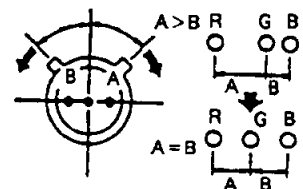
If the blue dot do not converge with red and green dots, perform following steps.

- HMC and VMC correction for BMC (Hexapole) Magnet
1. HMC (Horizontal Mis-convergence) correction and motion of the Electron Beam with the BMC Magnet.

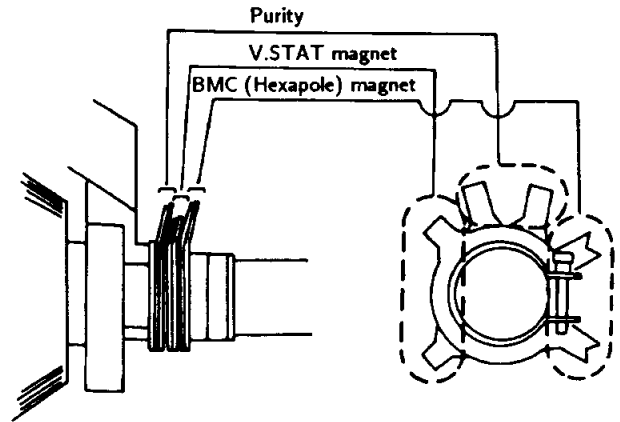
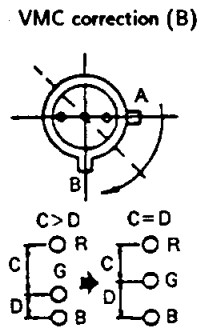
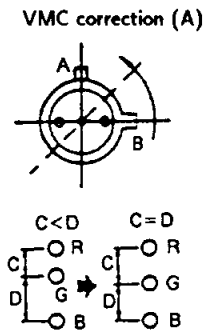
HMC correction (A)



HMC correction (B)



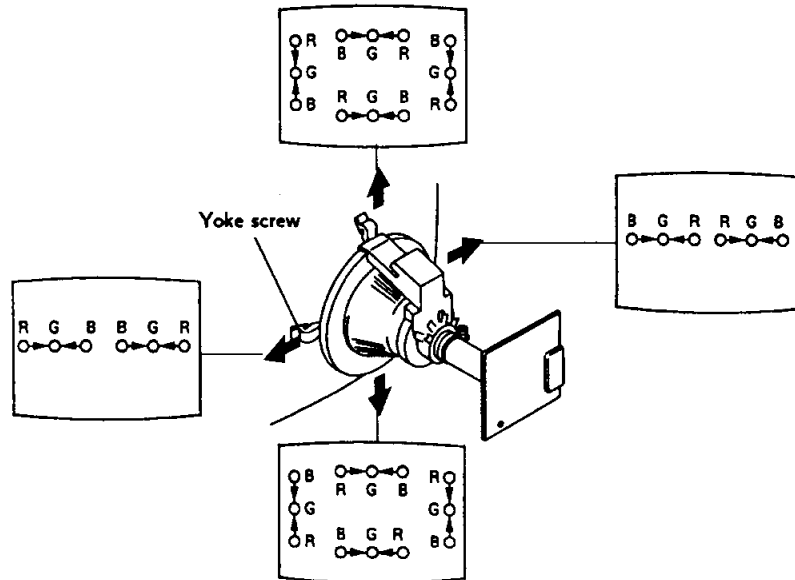
2. VMC (Vertical Mis-convergence) correction and motion of the Electron Beam with the BMC Magnet.



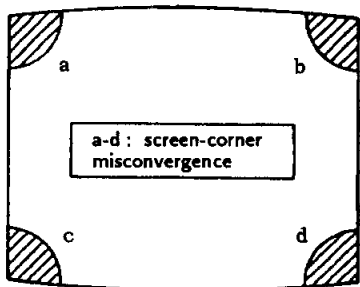
(2) Dynamic Convergence Adjustment

Perpartion :

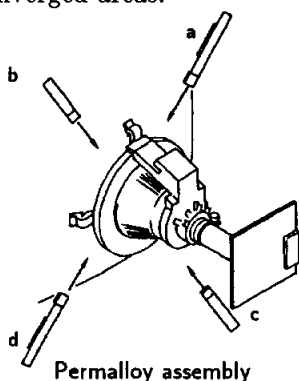
- Before starting perform Horizontal and Vertical Static convergence adjustment.
1. Slightly loosen deflection yoke screw.
 2. Remove deflection yoke spacers.
 3. Move the deflection yoke for best convergence as shown below.
 4. Tighten the deflection yoke screw.
 5. Install the deflection yoke spacers.



(4) Screen-corner Convergence



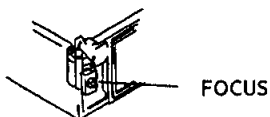
Affix a Permalloy ass'y corresponding to the misconverged areas.



3-3. FOCUS

1. Tune in an off-air signal.
2. PICTURE → control to 80%.
3. Adjust the focus VR on A board so that the focus at the center of the screen is optimum.

(A magenta ring will appear if the focus is adjusted only in the center of the screen.
Adjust evenly throughout the entire screen.)



3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT(RV701)

- 1) Set the PICTURE and BRIGHTNESS to normal.
- 2) Confirm G1 voltage is within $30.0 \pm 5V$.
- 3) Apply DC voltage of 180V to the cathodes of R, G and B from DC stabilized power source.
- 4) While watching the picture, adjust the G2 control (RV701) to the just the retrace line disappears.

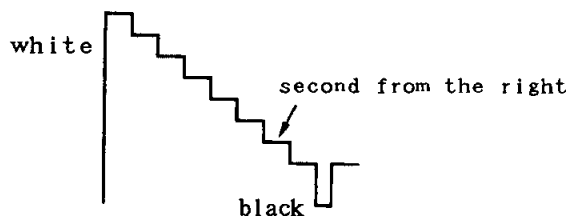
(Using the Remote Commander)

2. WHITE BALANCE ADJUSTMENTS

- 1) Set to service mode.
- 2) Press VIDEO → RESET to normal and if necessary "TRINITONE" set to "LOW" by + or -.
- 3) Input an entire white signal.
- 4) Set the PICTURE to minimum.
- 5) Select S BRT with 1 and 4, and then set the level to minimum with 3 and 6.
- 6) Select G CUT and B CUT with 1 and 4. And adjust the level with 3 and 6 for the best white balance.
- 7) Set the PICTURE to maximum.
- 8) Select G AMP and B AMP with 1 and 4, and adjust the level with 3 and 6 for the best white balance.
- 9) Write into the memory by pressing MUTING → then ENTER.

3. SUB BRIGHT ADJUSTMENT

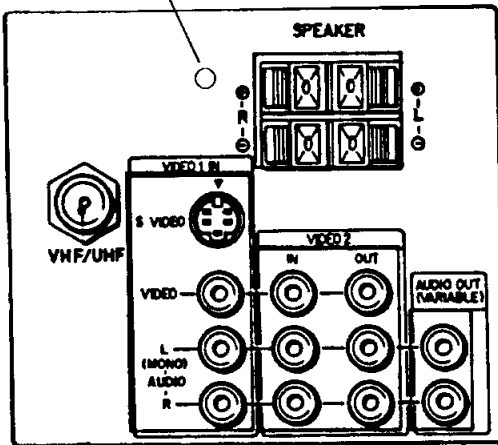
- 1) Set to service mode.
- 2) Input a staircase signal of black and white from the pattern generator.
- 3) BRIGHTNESS ... RESET
PICTURE minimum
- 4) Select S BRT with 1 and 4, and adjust SUB BRIGHT level with 3 and 6 so that the stripe second from the right is dimly lit.



a. METHOD OF SETTING THE SERVICE MODE

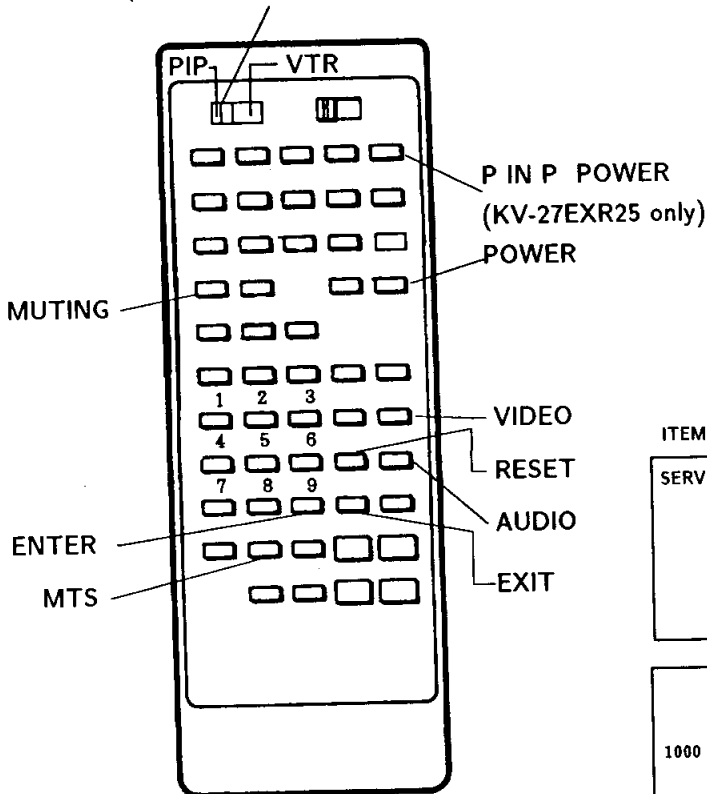
Press **POWER** button on the Remote Commander while pressing switch on the rear of the set.

Service modeswitch



b. ADJUST BUTTONS AND INDICATOR

(KV-27EXR25 only)



c. AN ITEM OF ADJUSTMENT

| ITEM | NAME REGISTER | |
|------|---------------|----------------|
| GAMP | VP | GREEN AMP. |
| BAMP | VP | BLUE AMP. |
| GCUT | VP | GREEN CUT OFF. |
| BCUT | VP | BLUE CUT OFF |
| SBRT | VP | BRIGHT |

d. METHOD OF CANCELLATION FROM SERVICE MODE

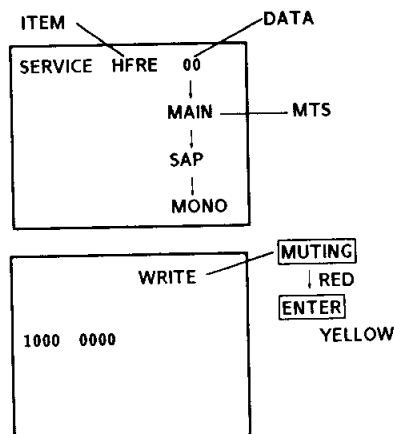
Set the standby condition (Press **POWER** button on the commander) in the next place, press **POWER** button again, hereupon it becomes TV mode.

e. METHOD OF WRITE FOR MEMORY

- 1) Set to Service Mode.
- 2) Press **1** (UP) and **4** (DOWN), select an item of adjustments.
- 3) Press **MUTING** button indicate WRITE (RED) on screen.
- 4) Press **ENTER** button to write for memory. (At this time WRITE (YELLOW) is indicated on screen.)

f. MEMORY WRITE CONFIRMATION METHOD

- 1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again, confirm they were adjusted.



SECTION 4 SAFETY RELATED ADJUSTMENTS

Note: Test Equipment Required.

1. Ammeter
2. DC Power Supply
3. Digital multimeter
4. Audio OSC
5. Variable auto-transformer

A BOARD AND G BOARD

☒ R559 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with ☒ on the schematic diagram).
 PM501, Q608, Q607, R629, R628, R627, R559

[1]

1. Preparation before confirmation

- 1) Remove R675 on the G board and connect a variable resistor (RV1: about $10k\Omega$) between pin ① of IC653 and B+ line.
- 2) Supply $120 \pm 2.0V$ AC to with variable auto-transformer.

2. Hold-down operation confirmation

- 1) Turn the POWER switch ON, and input an entirely white signals and adjust ABL current to $1650 \pm 80 \mu A$ with PICTURE and BRIGHT etc controls.
- 2) Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is less than 143.5V DC whereby the raster disappears during operation of hold-down circuit.

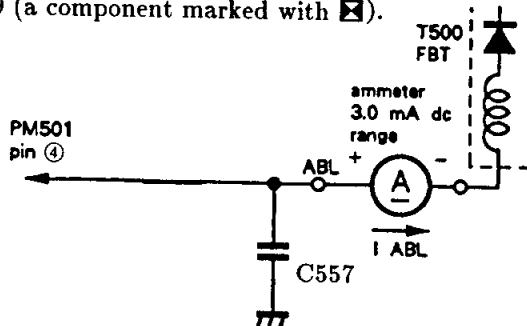
NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

- 3) Turn the POWER switch ON, and input a dot signals and adjust ABL current to $150 \pm 50 \mu A$ with PICTURE and BRIGHT etc controls.
- 4) Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is less than 146.5V DC whereby the raster disappears during operation of hold-down circuit.

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

3. Hold-down readjustment

When step 2 is not satisfied, readjustment should be performed by altering the resistance value of R559 (a component marked with ☒).



A BOARD AND G BOARD**☒ R570 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS**

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

A BOARD: PM501, Q608, Q607, D531, C545, R570, R591, R628, R627, T500

G BOARD: IC653, R675,

{2}

1. Preparation before confirmation

- 1) Turn the POWER switch ON, and input an entirely white signals and set the PICTURE and BRIGHT controls to maximum.
- 2) Confirm that voltage of the check terminal of TP-85 is more than 108V DC when the set is operating normally with $120.0 \pm 2.0V$ AC supply.

2. Hold-down operation confirmation

- 1) Turn the POWER switch ON, and input an entirely white signals and adjust ABL current to $1650 \pm 80 \mu A$ with PICTURE and BRIGHT etc controls.
- 2) Apply DC voltage of over 130V DC gradually to the check terminal of TP85 via 1SS119 from the DC stabilized power source.
Confirm that the minimum voltage is less than 137.5V DC whereby the raster disappears during operation of hold-down circuit.
- 3) Turn the POWER switch ON, and receive dot signals and adjust ABL current to $150 \pm 50 \mu A$ with PICTURE and BRIGHT etc controls.
- 4) Apply DC voltage of over 130V gradually to the check terminal of TP85 via 1SS119 from the DC stabilized power source.

Confirm that the minimum voltage is less than 137.5V DC whereby the raster disappears during operation of hold-down circuit.

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

Confirm that the minimum voltage is less than 138.5V DC whereby the raster disappears during operation of hold-down circuit.

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

Confirm that the minimum voltage is less than 138.5V DC whereby the raster disappears during operation of hold-down circuit.

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

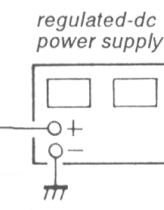
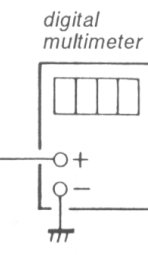
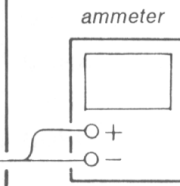
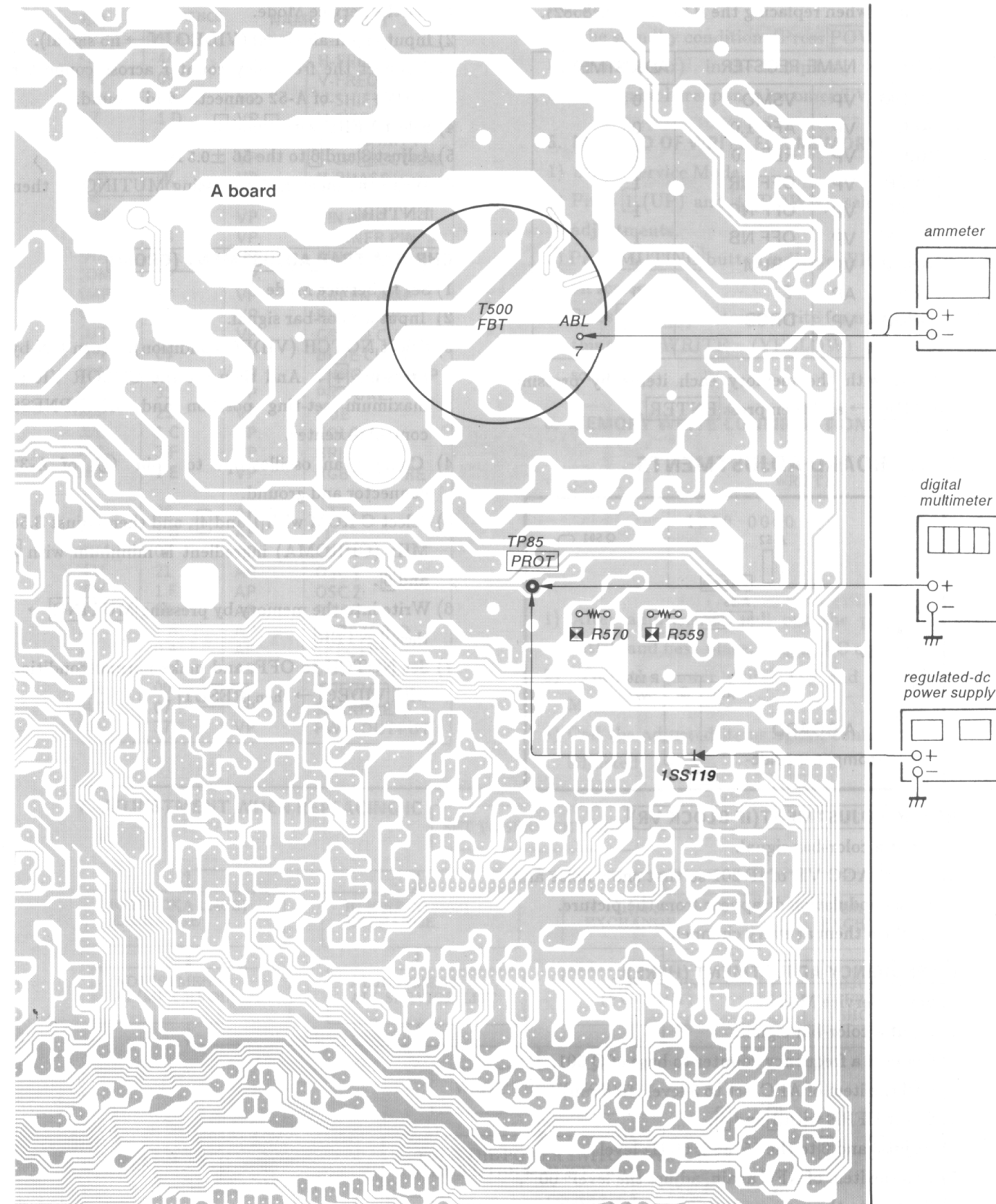
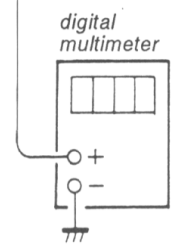
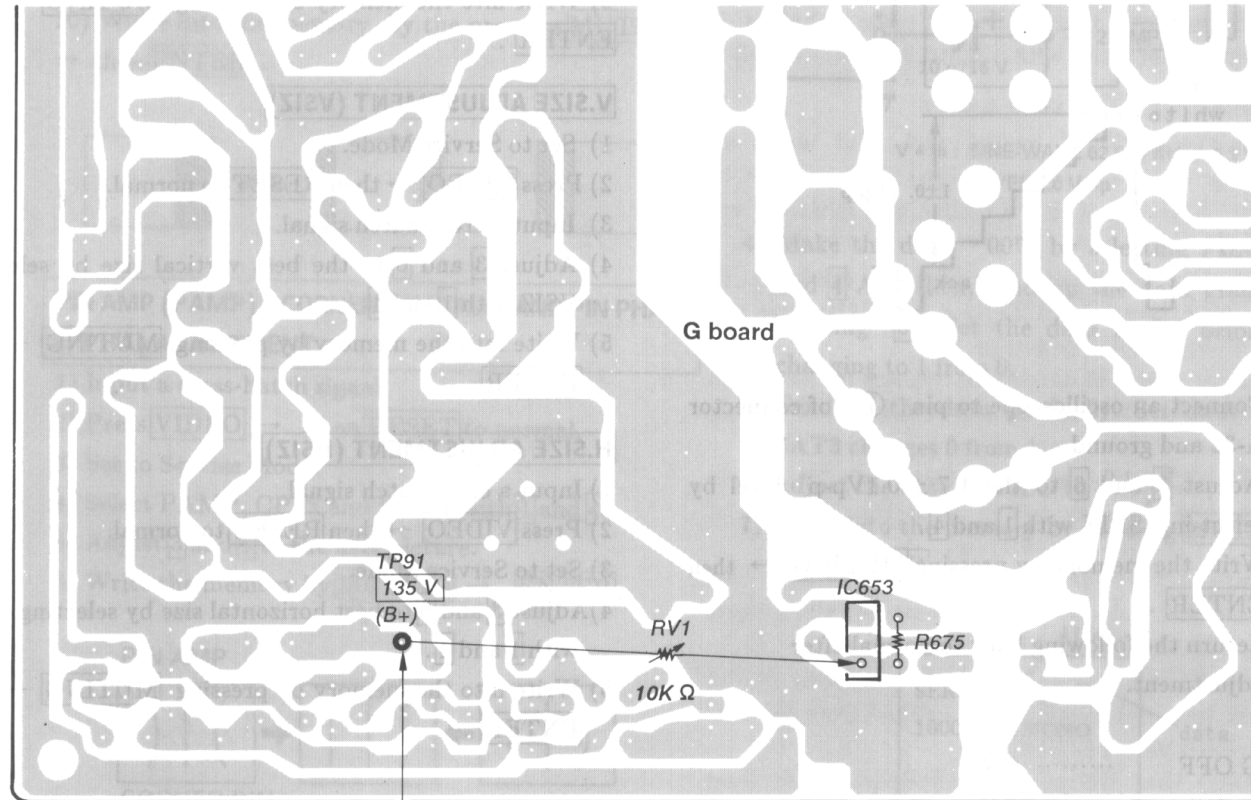
3. Hold-down readjustment

When step 2 is not satisfied, readjustment should be performed by altering the resistance value of R570 carbon 1/4w (a component marked with ☒).

G BOARD**B+ VOLTAGE CONFIRMATION**

The following adjustments should always be performed when replacing IC653 and R675.

- 1) Supply $130 \pm 1.0 V$ AC to with variable autotransformer.
- 2) Input an entirely monoscope signal.
- 3) Set the PICTURE control and the BRIGHT controls in to initial reset.
- 4) Confirm the voltage of TP91 is less than 137.0V DC.
- 5) If step 4) is not satisfied, replace IC653 and R675 repeat above steps.



SECTION 5 CIRCUIT ADJUSTMENTS

5-1. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

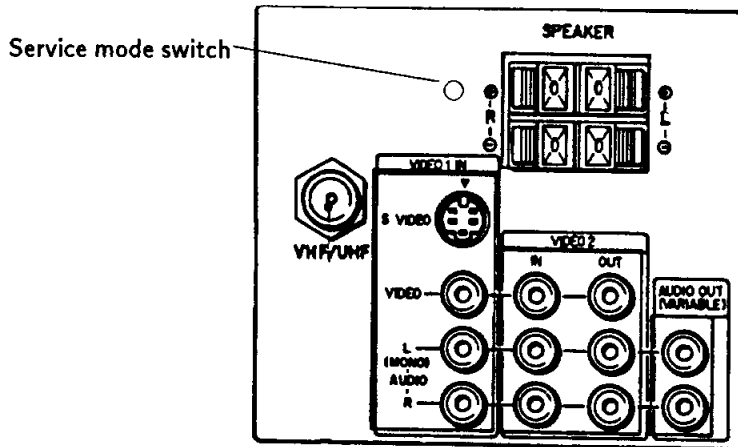
Use of Remote Commander (RM-Y 103, RM-Y 104) can be performed circuit adjustments about this model.

NOTE : Test Equipment Required.

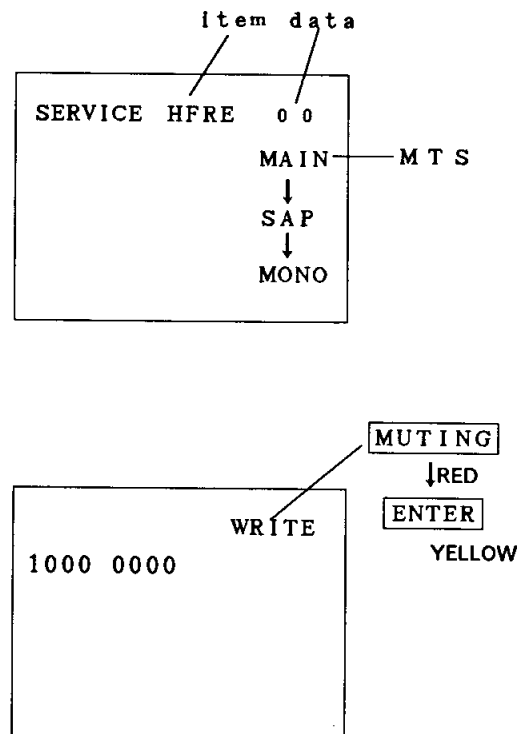
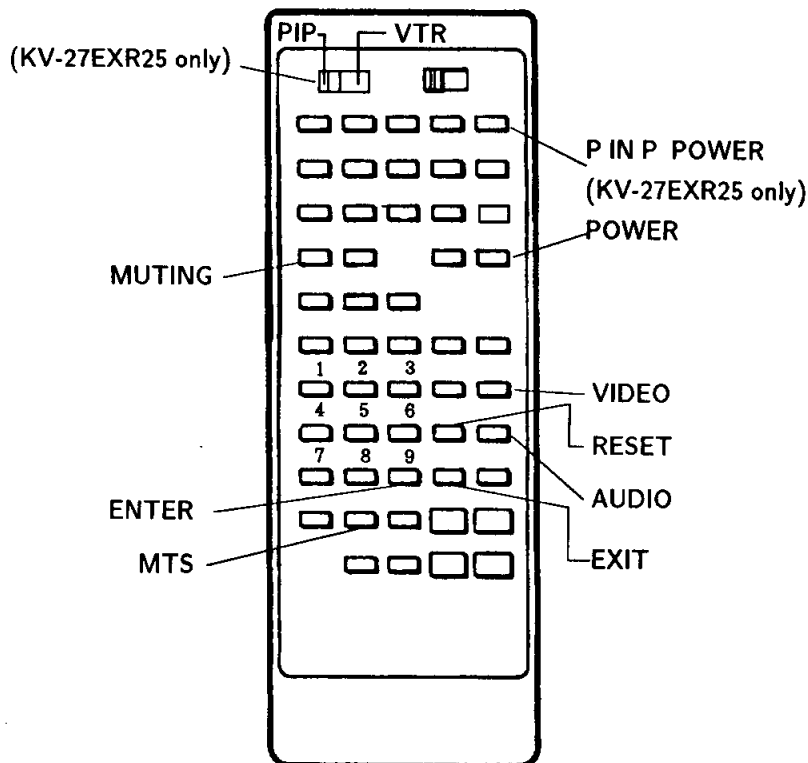
1. METHOD OF SETTING THE SERVICE MODE

- 1) Press **POWER** button on the Remote Commander while pressing switch on the rear of the set.

1. Pattern Generator
2. Frequency counter
3. Digital multimeter
4. Audio OSC



2. ADJUST BUTTONS AND INDICATOR



3. AN ITEM OF ADJUSTMENT

| ITEM | REFERENCE DATA | NAME REGIST | |
|------|----------------|-------------|----------------|
| HFRE | 44 | VP | H-FREQUENCE 1 |
| VFRE | 09 | VP | V-FREQUENCE 1 |
| VPOS | 10 | VP | V-SHIFT |
| VSIZ | 1 D | VP | V-SIZE |
| VLIN | 07 | VP | V-LINEARITY |
| VSCO | 08 | VP | S-CORRECTION |
| HPOS | 07 | VP | H-PHASE |
| HSIZ | 11 | VP | H-SIZE |
| PAMP | 0 F | VP | PIN AMP. |
| CPIN | 04 | VP | CORNER PIN |
| PPHA | 07 | VP | PIN PHASE |
| VCOM | 02 | VP | V-COMP |
| GAMP | 17 | VP | GREEN AMP. |
| BAMP | 18 | VP | BLUE AMP. |
| GCUT | 0 D | VP | GREEN CUT OFF. |
| BCUT | 09 | VP | BLUE CUT OFF |
| CROM | 1 B | VP | CHROMA TRAP |
| SPIX | 33 | VP | PICTURE |
| SHUE | 23 | VP | HUE |
| SCOL | 1 C | VP | COLOR |
| SBRT | 3 F | VP | BRIGHT |
| RGBP | 1 E | VP | RGB PICTURE |
| MPX | 08 | AP | ATT |
| FILO | 1 B | AP | I1 |
| DEEM | 07 | AP | I2 |
| STEV | 21 | AP | OSC 1 |
| SAPV | 1 F | AP | OSC 2 |
| PILO | 08 | AP | PILOT |
| SEP | 1 B | AP | WIDE BAND |
| VD | 0 A | AP | SPECTRAL |
| LVOL | 00 | AP | VOLUME-L |
| RVOL | 00 | AP | VOLUME-R |
| SHAR | 07 | VP | SHARPNESS |
| DISP | 37 | VP | PWM OUTPUT |

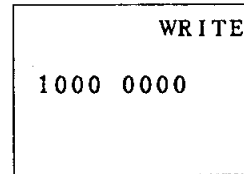
4. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press **POWER** button on the commander) in the next place, press **POWER** button again, hereupon it becomes TV mode.

5. METHOD OF WRITE FOR MEMORY

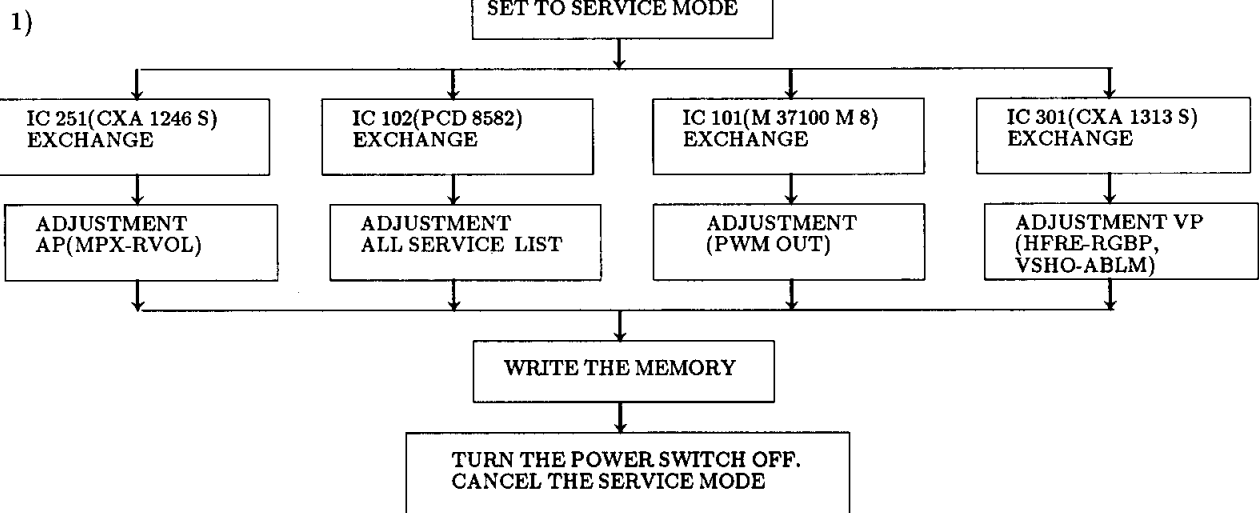
- 1) Set to Service Mode.
- 2) Press **1** (UP) and **4** (DOWN), select an item of adjustments.
- 3) Press **MUTING** button indicate WRITE (RED) on screen.
- 4) Press **ENTER** button to write for memory. (At this time WRITE (YELLOW) is indicated on screen.)

6. MEMORY WRITE CONFIRMATION METHOD



- 1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again, confirm they were adjusted.

7. ADJUSTMENT WHEN REPLACING IC



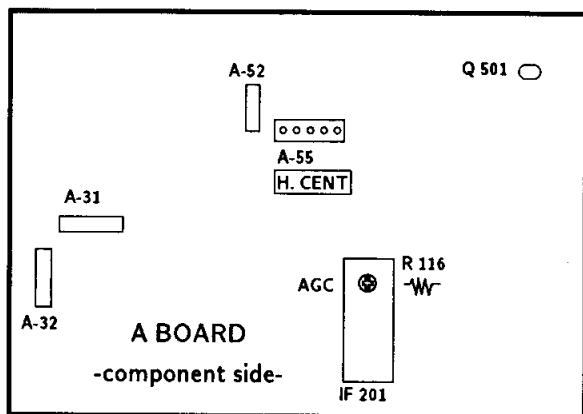
NOTE: If service mode is canceled before writing into memory, the adjustment data is not recorded. Please write into memory, after adjustment.

- 2) The following initial setting should always be performed when replacing the IC 102 (PCD 8582).

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

*Please with the memory each items by pressing **MUTING** → and then press **ENTER**.

5-2. A BOARD ADJUSTMENTS



RF AGC ADJUSTMENT(IF BLOCK VR)

- 1) Input a color-bar signal.
- 2) Adjust AGC VR of IF 201 so that snow noise and cross-modulation disappear from the picture.
- 3) Confirm them at every channel.

H.FREQUENCY ADJUSTMENT (HFRE)

- 1) Set to Service Mode.
- 2) Input a color-bar signal.
- 3) Connect a frequency counter to base of Q 501.
- 4) Call the item of AFC, set to 3 level (free run).
- 5) Select HFRE with **1** and **4**.
- 6) Adjust **3** and **6** to the 15735 ± 60 Hz level.
- 7) Call the item of AFC again, adjust the level "00".
- 8) Write into the memory by pressing **MUTING** → then **ENTER**.

V.FREQUENCY ADJUSTMENT (VFRE)

- 1) Set the Service Mode.
- 2) Input an off-air signal (VIDEO IN → no signal).
- 3) Connect the frequency counter across connector V.DY+ of A-52 connector and ground.
- 4) Select VFRE with **1** and **4**.
- 5) Adjust **3** and **6** to the 56 ± 0.5 Hz.
- 6) Write the memory by pressing **MUTING** → then **ENTER**.

CHROMA TRAP ADJUSTMENT (CROM)

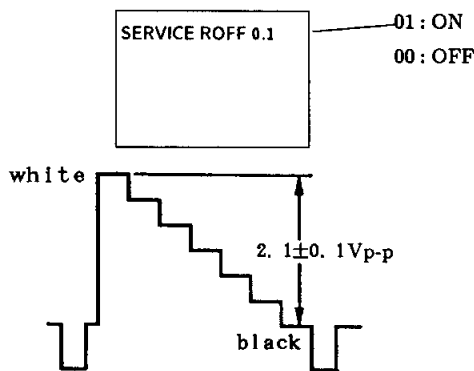
- 1) Set to Service Mode.
- 2) Input a color-bar signal.
- 3) Select NOTCH (VIDEO condition), turn ON by pressing **+**. And then set the COLOR VR to maximum setting position and SHARPNESS control to center.
- 4) Connect an oscilloscope to pin ① of A-32 connector and ground.
- 5) Select C ROM with **1** and **4**, and then adjust 3.58 MHz (CHROMA) ingredient is minimum with **3** and **6**.
- 6) Write into the memory by pressing **MUTING** → then **ENTER**.
- 7) Set NOTCH to OFF, and make normal condition with **VIDEO** → then **RESET**.

SUB CONTRAST ADJUSTMENT (SPIX)

- 1) Set to Service Mode.
- 2) Input a color-bar signal. (75 IRE)
- 3) Set the conditions as follows.

PICTURE MAX
 COLOR MIN
 R OFF ON
 G OFF OFF
 B OFF OFF

Press **VIDEO** → **[-]** (L) (It becomes minimum).
 Select **[3]** (ON) and **[6]** (OFF) with **[1]** and **[4]**.

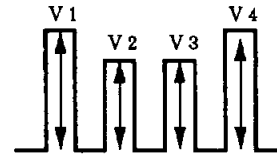


- 4) Connect an oscilloscope to pin ① of connector A-32 and ground.
- 5) Adjust **[3]** and **[6]** to the $1.7 \pm 0.1V_{p-p}$ level by selecting SPIX with **[1]** and **[4]**.
- 6) Write the memory by pressing **MUTING** → then **ENTER**.
- 7) Return the following back to normal after adjustment.

G OFF ON
 B OFF ON
 COLOR CENTER
 PICTURE 80%

SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL)

- 1) Input a color-bar signal.
- 2) Press **VIDEO** → then **RESET** to normal.
- 3) Set to Service Mode.
- 4) Connect an oscilloscope to pin ③ of connector A-32 and ground.
- 5) Adjust **[3]** and **[4]** to the $V1=V4$ and $V2=V3$ by select to SHUE and SCOL with **[1]** and **[4]**.



- 6) Write into the memory by pressing **MUTING** → then **ENTER**.

V.SIZE ADJUSTMENT (VSIZ)

- 1) Set to Service Mode.
- 2) Press **VIDEO** → then **RESET** to normal.
- 3) Input a cross-hatch signal.
- 4) Adjust **[3]** and **[6]** to the best vertical size by selecting VSIZ with **[1]** and **[4]**.
- 5) Write into the memory by pressing **MUTING** → then **ENTER**.

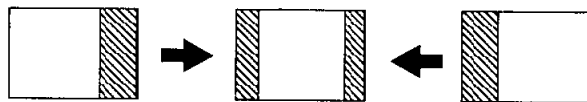
H.SIZE ADJUSTMENT (HSIZ)

- 1) Input a cross-hatch signal.
- 2) Press **VIDEO** → then **RESET** to normal.
- 3) Set to Service Mode.
- 4) Adjust **[3]** and **[6]** to best horizontal size by selecting HSIZ with **[1]** and **[4]**.
- 5) Write into the memory by pressing **MUTING** → then **ENTER**.

H.CENTER ADJUSTMENT (H POS)

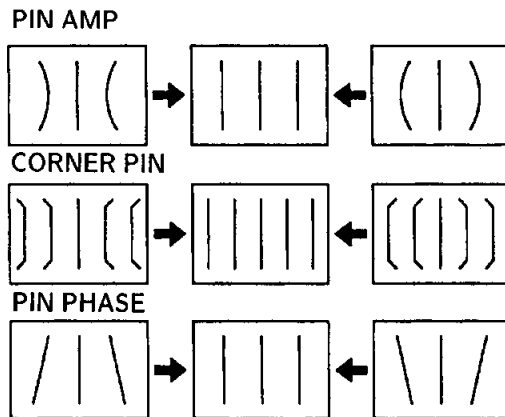
Note: Perform this adjustment after H.FREQUENCY ADJUSTMENT (HFRE) .

- 1) Input a color bar signal.
- 2) Set the Service mode.
- 3) Select HSIZ with **[1]** and **[4]** .
- 4) Press **[6]** so that the Horizontal size set to min.
- 5) Adjust A-55 conector position so that both-size branking width of the Raster should be same on the Scrnne.
- 6) Unplug Set then plug in Set.
- 7) Set to Service mode.
- 8) Select HPOS with **[1]** and **[4]** .
- 9) Adjust **[3]** and **[6]** so that the color bars center should be set to the CRT Screen center position.
- 10) Write into the memory by the pressing **[MUTING]** → then **[ENTER]** .



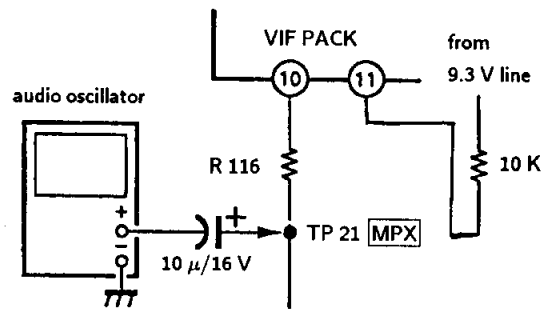
PIN AMP (PAMP) , CORNER PIN (CPIN) AND PIN PHASE (PPHA) ADJUSTMENT

- 1) Input a cross-hatch signal.
- 2) Press **[VIDEO]** → then **[RESET]** to normal.
- 3) Set to Service Mode.
- 4) Select PAMP, CPIN and PPHA with **[1]** and **[4]** .
- 5) Adjust **[3]** and **[6]** to the best picture.
- 6) Write the memory by **[MUTING]** → **[ENTER]** .



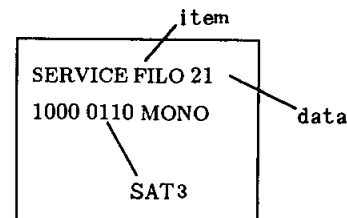
FILTER ADJUSTMENT (MPX, FILO)

- 1) Set to Service Mode.
- 2) Select to **[TEST]** with **[1]** and **[4]** , set the data to "1". Then select MPX and change data to "08" .
- 3) Connect an audio oscillator to R116 using a capacitor (10μ F/16V), set frequency to 62.936 kHz ± 0.1 kHz. And then, through the 10kΩ resistor, feed 9.3V into the pin ⑩ of VIF pack.



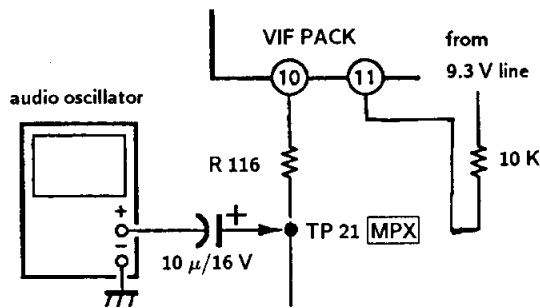
V 4 fh : SINE-WAVE 62.936 KHz ± 0.1 KHz
LEVEL 3.0 Vp-p

- 4) Make the data "00" by selecting FILO with **[1]** and **[4]** . And then, send up the data gradually by pressing **[6]** . Set the data to D1 before SAT3 changing to 1 from 0.
- 5) Send up the data gradually. Set data D2 when SAT3 changes 0 from 1.
- 6) Adjust the data of FILO to $\frac{D_1 + D_2}{2}$.
- 7) Write into the memory by pressing **[MUTING]** → then **[ENTER]** .



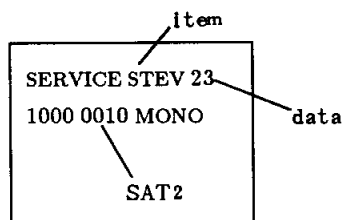
ST VCO ADJUSTMENT (MPX, STEV)

- 1) Set to Service Mode.
- 2) Select TEST with **[1]** and **[4]**, set the data to "1".
And then press **[MTS]** to MONO.
- 3) Select MPX, set the data "8".
- 4) Connect an audio oscillator to R 116 using electrolytic capacitor (10 μ F/16V) and apply the frequency V_{ST} . Then, apply DC voltage to pin ⑩ of VIF pack using 10k Ω connect to 9.3V line.



V 4 fh : SINE-WAVE 62.936 KHz \pm 0.1 KHz
LEVEL 3.0 Vp-p

- 5) Select STEV with **[1]** and **[4]**, set the data to "00" with **[6]**. And then, send up the data gradually. Set the data to D1 before SAT2 changes from 0 to 1.
- 6) Send up data gradually, set the data to D2 when SAT2 changes 1 from 0.
- 7) Adjust the data of STEV to
- 8) Write into the memory by pressing **[MUTING]** \rightarrow then **[ENTER]**.

**MPX IN LEVEL ADJUSTMENT (MPX)**

- 1) Set to Service Mode.
- 2) Select TEST with **[1]** and **[4]**, set the data to "0" with **[6]**. And then press **[MTS]** to MONO.
- 3) Select MPX with **[1]** and **[4]**, set the data to "08" with **[3]** and **[6]**.
- 4) Write into the memory by pressing **[MUTING]** \rightarrow then **[ENTER]**.

PILOT CANCEL ADJUSTMENT (PILO)

- 1) Set to the Service Mode.
- 2) Select TEST with **[1]** and **[4]**, set the data to "0" with **[6]**. And then press **[MTS]** to MAIN.
- 3) Select PILO with **[1]** and **[4]**, set the data to "08" with **[3]** and **[6]**.
- 4) Write into the memory by pressing **[MUTING]** \rightarrow then **[ENTER]**.

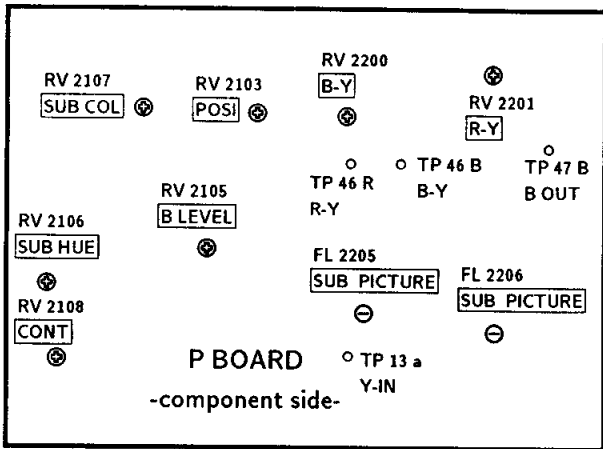
SAP VCO f_o ADJUSTMENT (SAPV)

- 1) Set to Service Mode.
- 2) Input a stereo broadcast signal with SAP.
- 3) Select TEST with **[1]** and **[4]**, set the data to "0". And then, press **[MTS]** to MAIN.
- 4) Connect a digital multimeter to TP-1(DBX). This voltage reading will equal V 1.
- 5) Press MTS to SAP and this voltage will equal V 2.
- 6) Select SAPV with **[1]** and **[4]**, adjust **[3]** and **[6]** so that $V 2 = V 1 \pm 0.03$ VDC.
- 7) Write the memory by **[MUTING]** \rightarrow **[ENTER]**.

SEPARATION ADJUSTMENT (SEP)

- 1) Set to Service Mode.
- 2) Press **[MTS]** to MAIN and receive a monoral broadcast signal.
In the next step, receive a stereo broadcast signal.
- 3) Select SEP and VD with **[1]** and **[4]**, adjust **[3]** and **[6]** so that a clear stereo sound is effected.

5-3. P BOARD ADJUSTMENTS (KV-27 EXR 25 only)

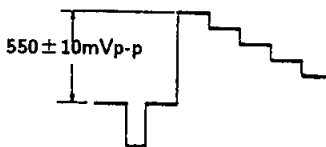


RF AGC ADJUSTMENT(IF BLOCK VR)

- 1) Input a color-bar signal.
- 2) Set to PICTURE IN PICTURE mode.
- 3) Adjust AGC VR of IF 1201 so that snow noise and cross-modulation disappear from the picture.
- 4) Confirm them at every channel.

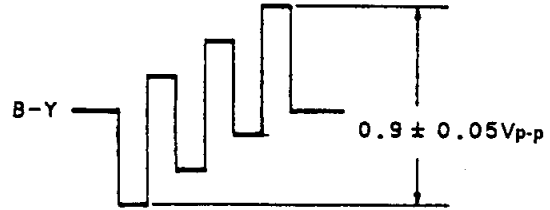
CONTRAST ADJUSTMENT(RV 2108)

- 1) Input a color-bar signal.
- 2) Set to PICTURE IN PICTURE mode.
- 3) Observe signal at TP-13 a on an oscilloscope.
- 4) Adjust RV 2108 (SUB CONT) so that the signal level between white and pedestal becomes 550 ± 10 mVp-p as shown.



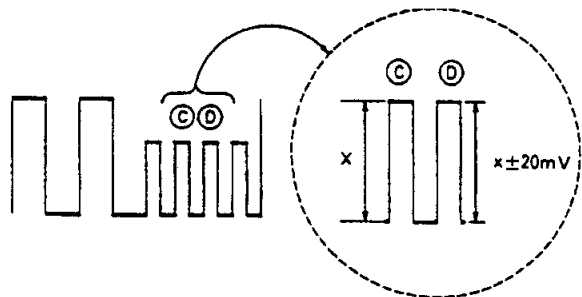
SUB COLOR ADJUSTMENT(RV 2107)

- 1) Input a color-bar signal.
- 2) Set to PICTURE IN PICTURE mode.
- 3) COLOR RESET
HUE RESET
- 4) Connect an oscilloscope to TP-47 B.
- 5) Adjust RV 2107 so that voltage is 0.9 ± 0.05 Vp-p.



SUB HUE ADJUSTMENT(RV 2106)

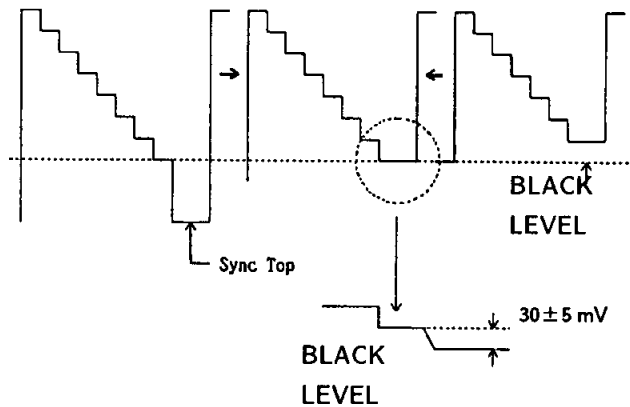
- 1) Input a color-bar signal.
- 2) Set to PICTURE IN PICTURE mode.(1/4 SIZE)
- 3) PICTURE 80%
BRIGHT RESET
COLOR RESET
HUE RESET
- 4) Connect an oscilloscope to TP-47 B.
- 5) Adjust RV2106 so that the ③ coincides with ④ as shown in figure.



BRT LEVEL ADJUSTMENT(RV 2105)

- 1) Input a color-bar signal.
- 2) Observe PICTURE IN PICTURE mode.
- 3) Adjust RV 2105(B.LEVEL)so that the signal level between C.B.black level and Sync level becomes same level as shown.

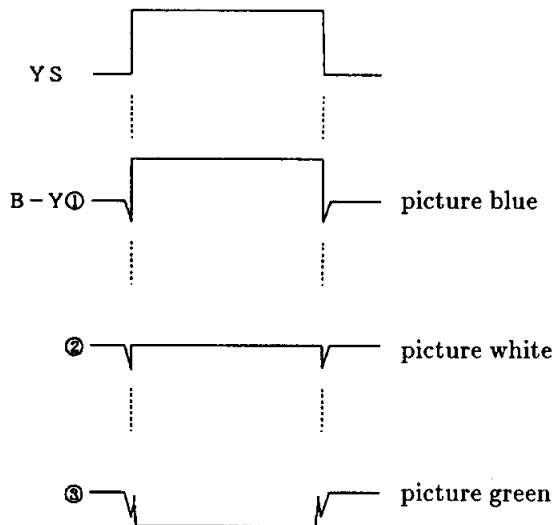
TP-13 a output



A/D OFF SET ADJUSTMENT(RV 2200,2201)

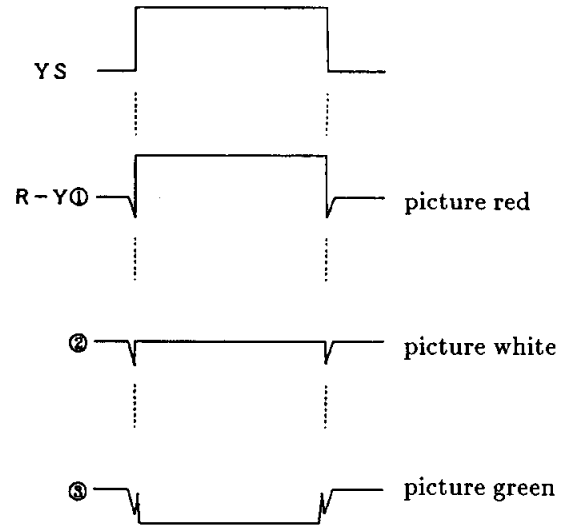
B-Y ADJUSTMENT

- 1) Input a color-bar signal.
- 2) Set to PICTURE IN PICTURE mode.
- 3) Connect an oscilloscope to TP-46 B.
- 4) Adjust RV 2200 so that the wavefront as shown in figure.



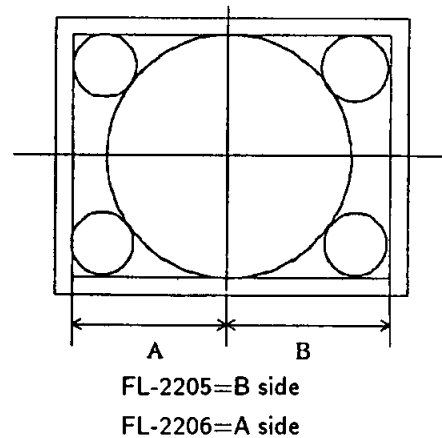
R-Y ADJUSTMENT

- 1) Input a color-bar signal.
- 2) Set to PICTURE IN PICTURE mode.
- 3) Connect an oscilloscope to TP-46 R.
- 4) Adjust RV 2201 so that the wavefront as shown in figure.



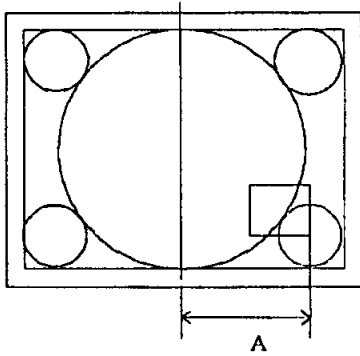
SUB PICTURE ADJUSTMENT(FL 2205,2206)

- 1) Input a monoscope signal.
- 2) Set to PICTURE IN PICTURE mode.
- 3) Adjust FL2205,FL2206 so that A and B are same size.



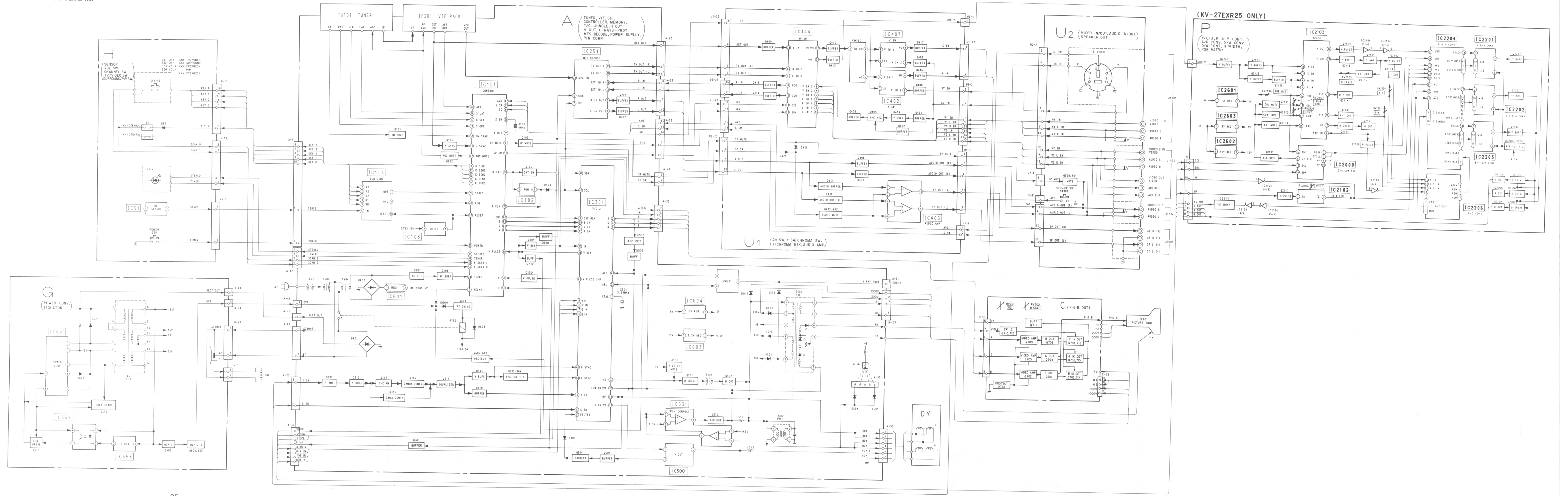
SUB PICTURE POSITION ADJUSTMENT(RV 2103)

- 1) Input a cross-hatch signal.
- 2) Set to PICTURE IN PICTURE mode.
- 3) Adjust RV 2103 so that the SUB PICTURE is a suitable position.

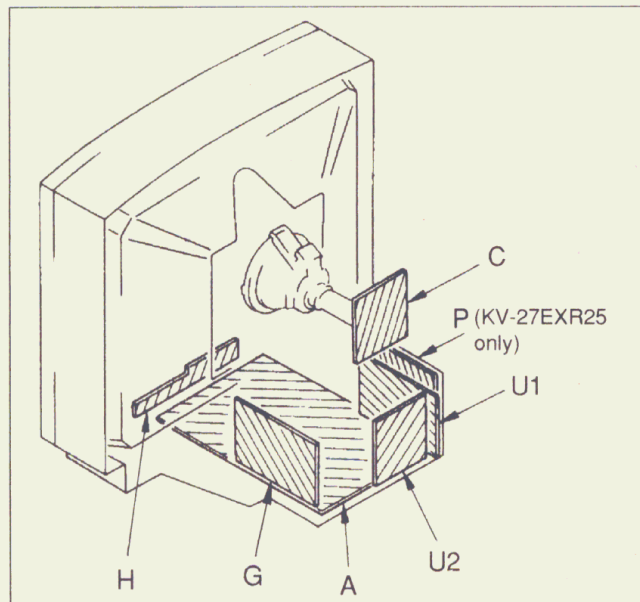


SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM



6-2. CIRCUIT BOARDS LOCATION



6-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS -Conductor Side-

Note:

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

Pitch: 5 mm
Rating electrical power 1/4W

- Chips resistors are 1/10W.
- : nonflammable resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by mark the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R570 and R559 adjustment on page 22-25) When replacing the part in below table, be sure to perform the related adjustment.

| Part replaced (■) | Adjustment (▣) |
|--|-------------------|
| PM501, Q607, Q608, R559, R627, R628, R629 | R559 Hold-down |
| IC653, PM501, Q607, Q608, D531, C545, R570, R591, R627, R628, R675, T500 | R570 Hold-down |

Reference information

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

- Readings are taken with a color-bar signal input.
- Readings are taken with a 10 M Ω digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : B- bus.
- : signal path.

Note:

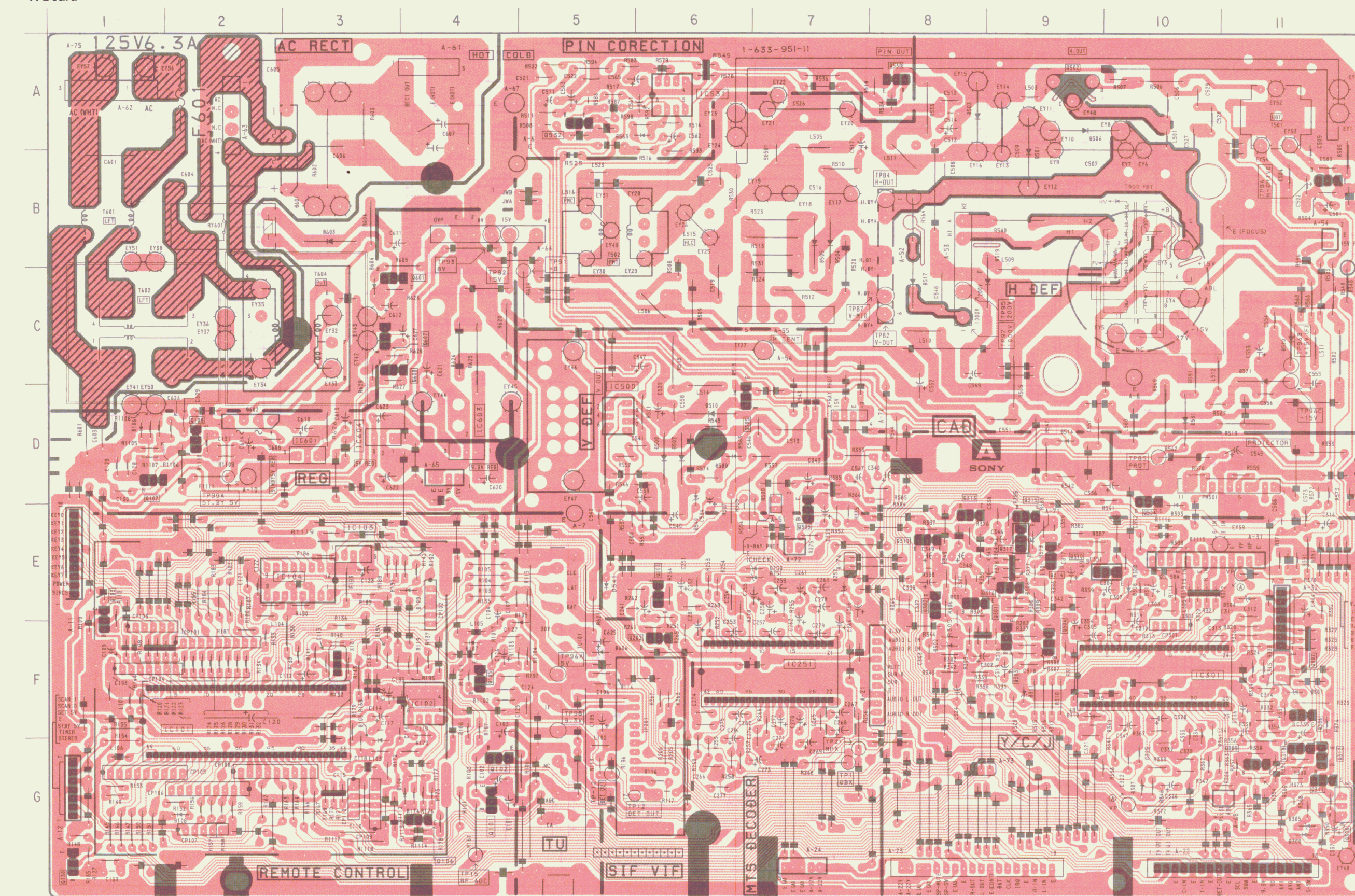
The components identified by shading and mark are critical for safety. Replace only with part number specified.

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.

A TUNER, VIF, SIF, CONTROLLER, MEMORY, Y/C JUNGLE, H OUT, V OUT, X RAYS PRO, MTS DECODE, POWER SUPPLY, PIN CORR

— A Board —

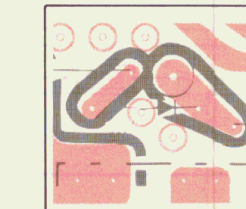


A Board

| IC | TRANSISTOR | DIODE |
|------------|------------|------------|
| IC101 F-2 | Q316 E-9 | D506 A-9 |
| IC102 F-4 | Q317 E-9 | D509 D-6 |
| IC103 E-3 | Q318 G-11 | D510 D-6 |
| IC104 E-3 | Q501 B-11 | D514 D-9 |
| IC251 F-7 | Q502 A-9 | D515 D-6 |
| IC301 F-10 | Q504 E-10 | D517 C-8 |
| IC500 D-5 | Q505 D-6 | D519 C-8 |
| IC531 A-6 | Q530 A-8 | D520 C-11 |
| IC601 D-3 | Q601 C-3 | D521 C-11 |
| IC603 D-4 | Q607 C-3 | D531 D-10 |
| IC604 D-3 | Q608 C-3 | D540 D-6 |
| | | D563 A-6 |
| | | D601 B-3 |
| | | D602 D-2 |
| | | D603 B-3 |
| | | D604 C-3 |
| | | D606 F-5 |
| TRANSISTOR | | DIODE |
| Q101 G-4 | D103 G-3 | |
| Q102 G-4 | D104 G-4 | |
| Q103 E-1 | D105 E-4 | |
| Q105 F-4 | D106 D-1 | |
| Q106 G-4 | D107 F-4 | |
| Q107 D-1 | D108 G-2 | |
| Q108 D-2 | D109 E-4 | |
| Q130 G-1 | D250 E-7 | |
| Q202 F-6 | D251 E-7 | |
| Q203 E-6 | D252 E-7 | |
| Q301 E-8 | D300 G-11 | |
| Q302 E-8 | D301 F-11 | |
| Q303 F-9 | D302 F-8 | |
| Q304 F-9 | D303 E-10 | |
| Q305 E-7 | D304 E-11 | |
| | D305 G-11 | |
| Q306 F-11 | | |
| Q307 F-11 | D306 E-9 | |
| Q308 G-11 | D307 G-10 | |
| Q309 G-11 | D308 E-10 | |
| Q310 E-10 | D310 F-9 | |
| | D311 F-9 | |
| Q311 G-11 | | |
| Q312 G-11 | D500 D-6 | |
| Q313 E-8 | D501 A-9 | |
| Q314 E-9 | D502 D-6 | |
| Q315 E-9 | D503 A-8 | |
| | D504 B-7 | |
| | D505 B-7 | |
| | | TP96B C-11 |
| | | TP96C C-11 |
| | | TP97 C-8 |
| | | TP98 F-5 |
| | | TP99A D-2 |

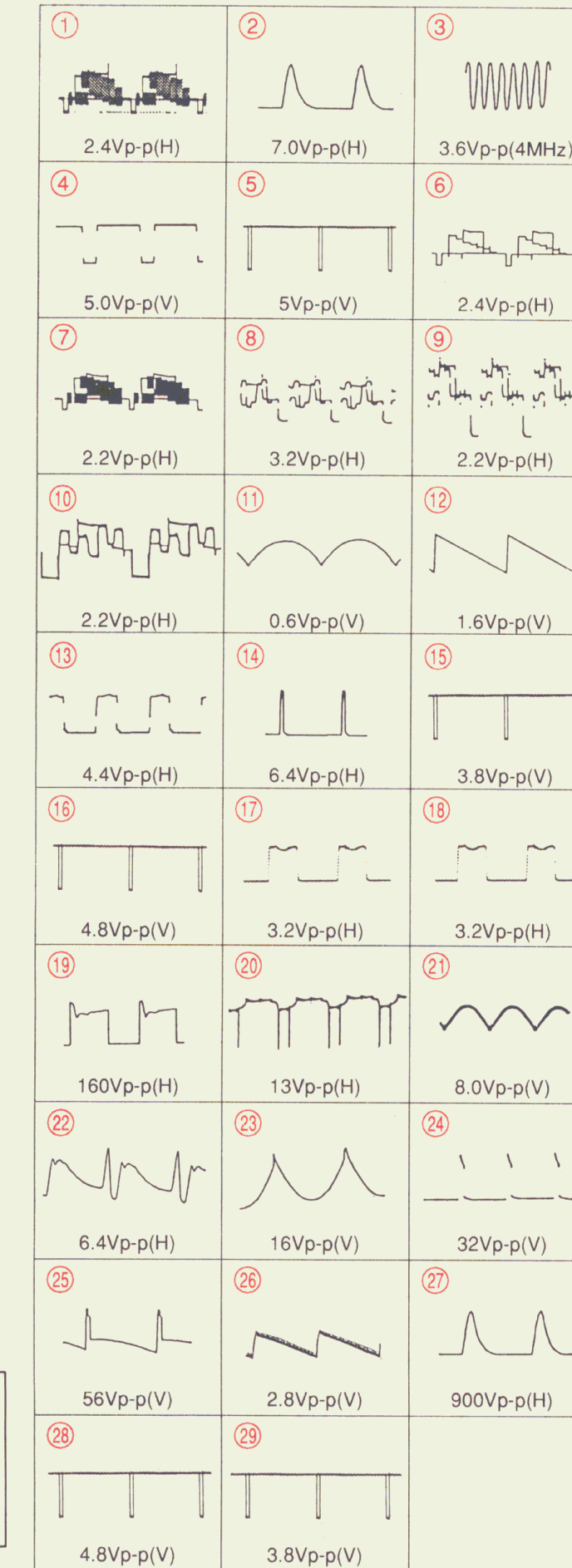
TEST POINT

- TP1 G-7
- TP2 G-5
- TP15 G-4
- TP21 G-7
- TP82 C-8
- TP84 B-8
- TP85 D-10
- TP86 B-11
- TP87 C-8
- TP88 C-11
- TP91 C-4
- TP92 B-4
- TP93 B-4
- TP95 C-8
- TP96A F-5

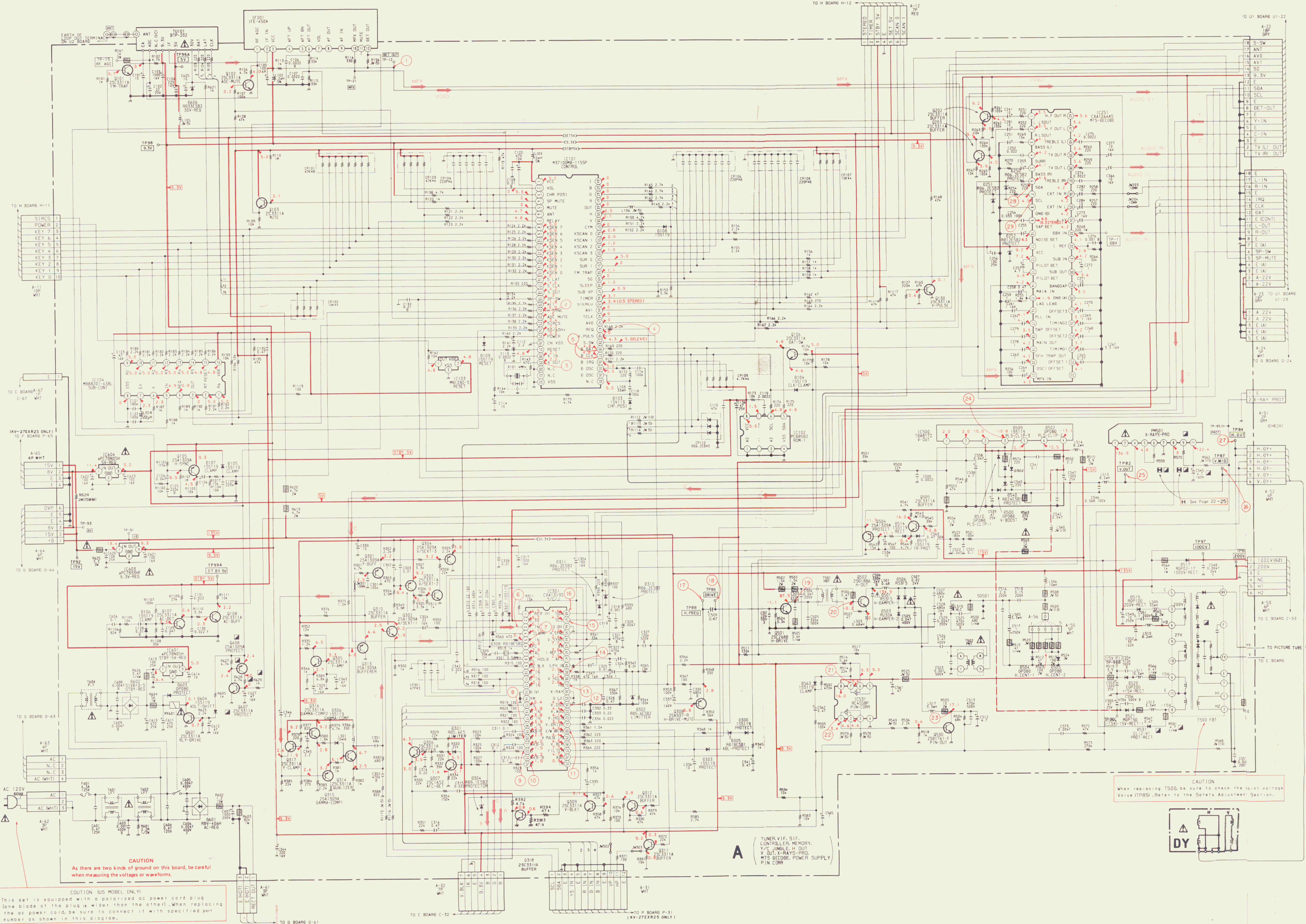


NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

WAVEFORMS A BOARD



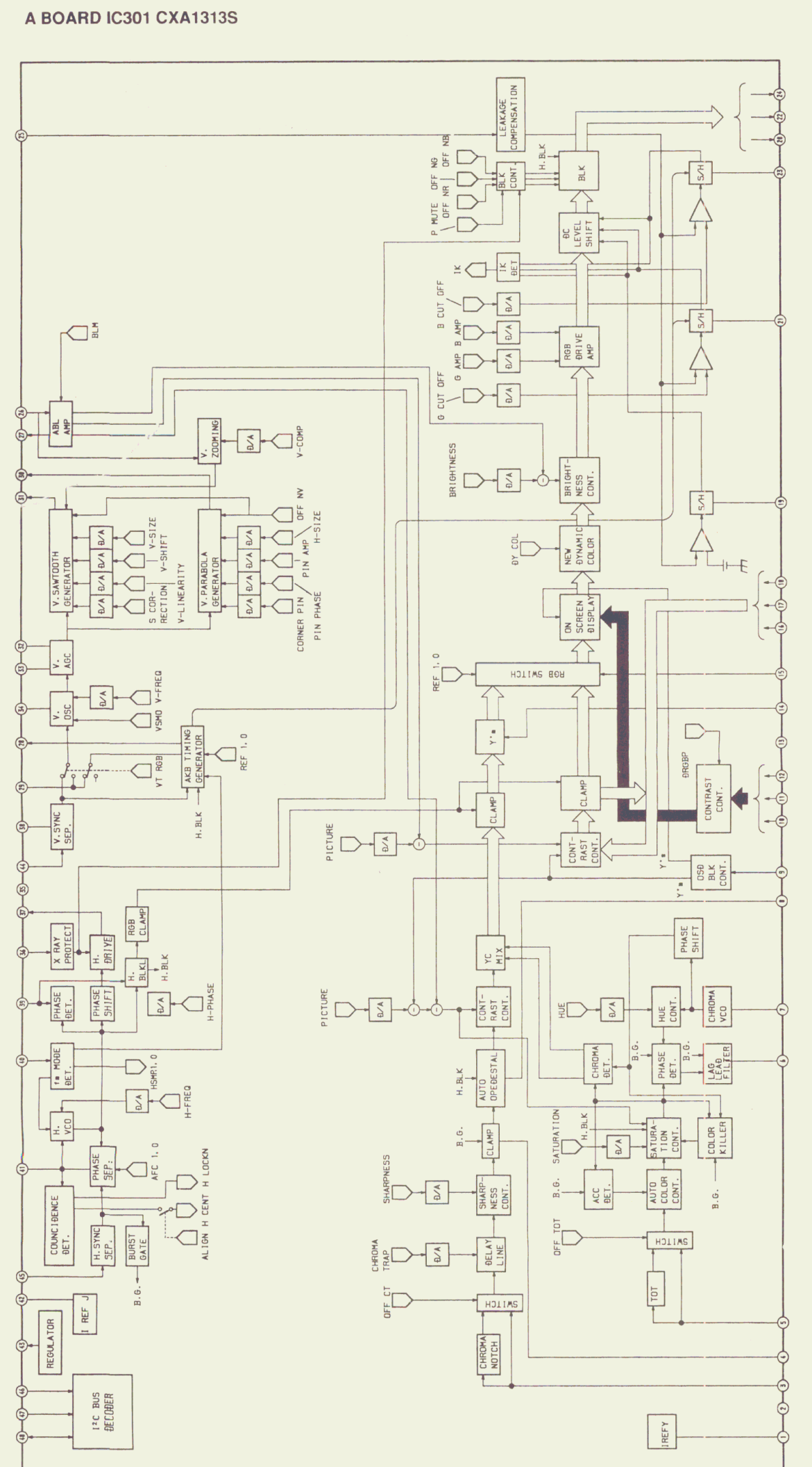
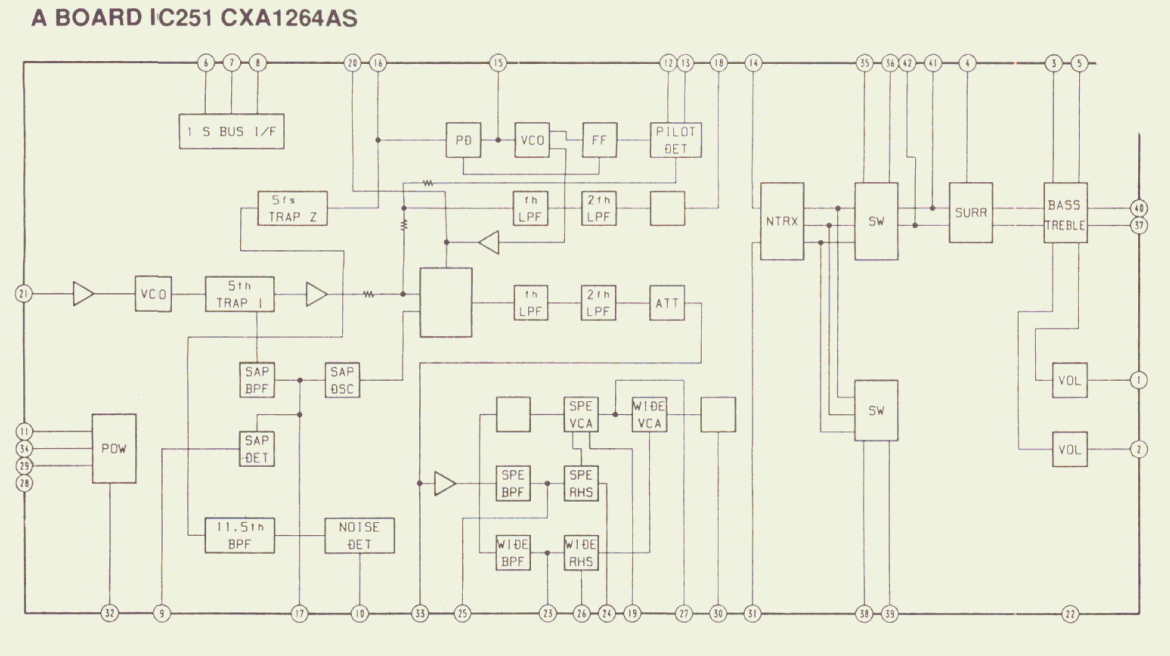
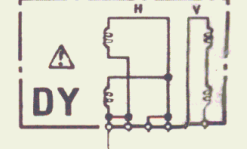
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P



CAUTION
As there are two kinds of ground on this board, be careful when measuring the voltages or waveforms.

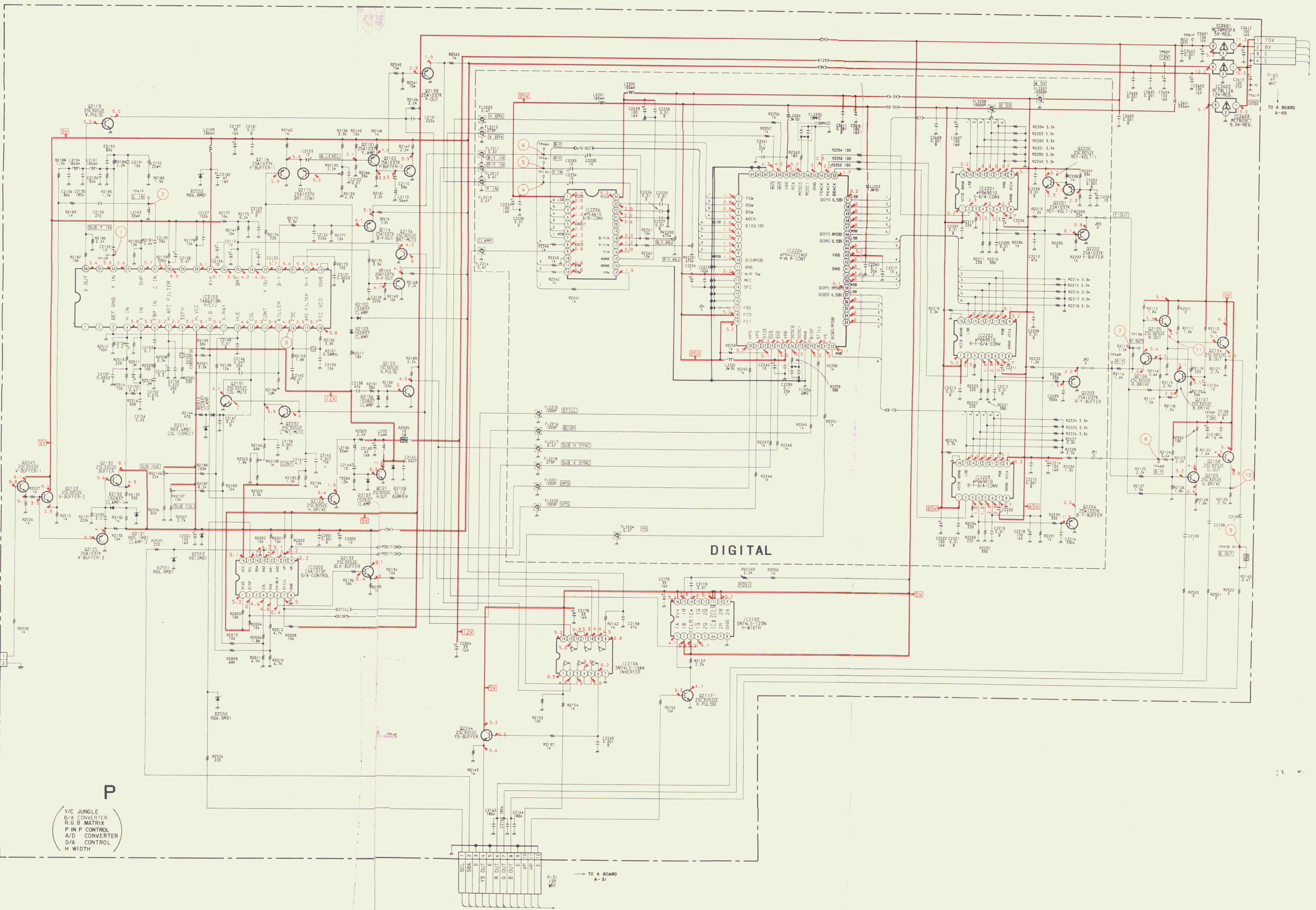
CAUTION (S/S MODEL ONLY)
This set is equipped with a polarized ac power cord plug (one blade of the plug is wider than the other). When replacing the ac power cord, be sure to connect it with specified part number as shown in this diagram.

CAUTION
TUNER, VIF, SIF, CONTROLLER'S MEMORY, V/C, SINGLE H. OUT, DUAL TRACKS-REG, MTS BEG, POWER SUPPLY, P.I.N. CORR.

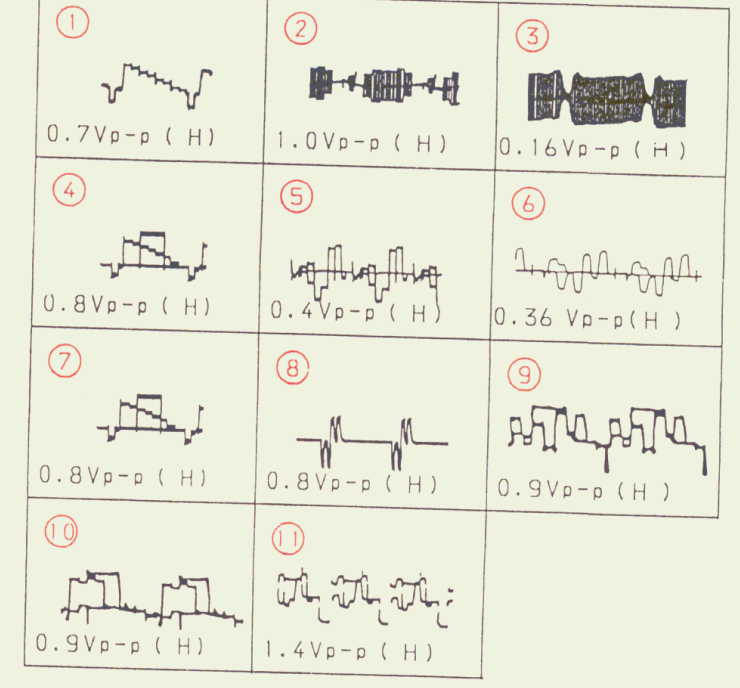


A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

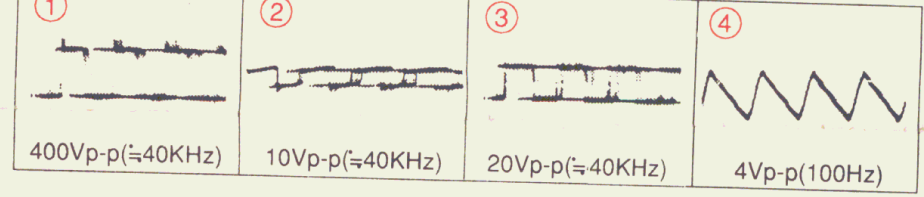
(KV-27EXR25 only)



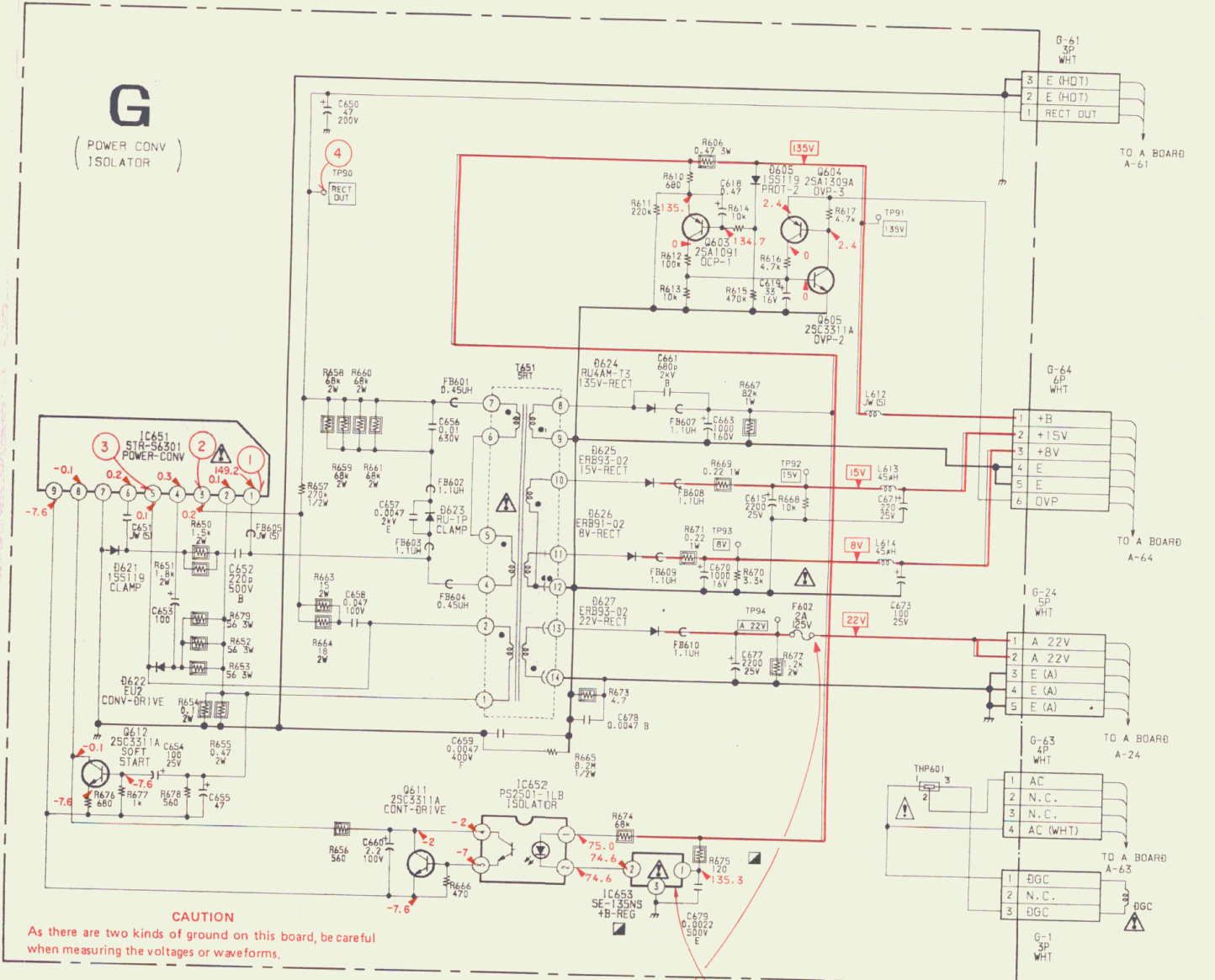
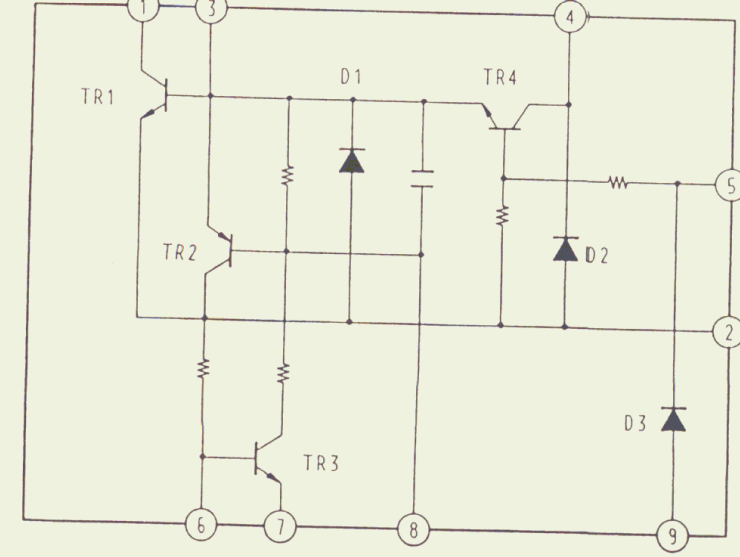
WAVEFORMS P BOARD (KV-27EXR25 only)



WAVEFORMS G BOARD



G BOARD IC651 STR-S6301

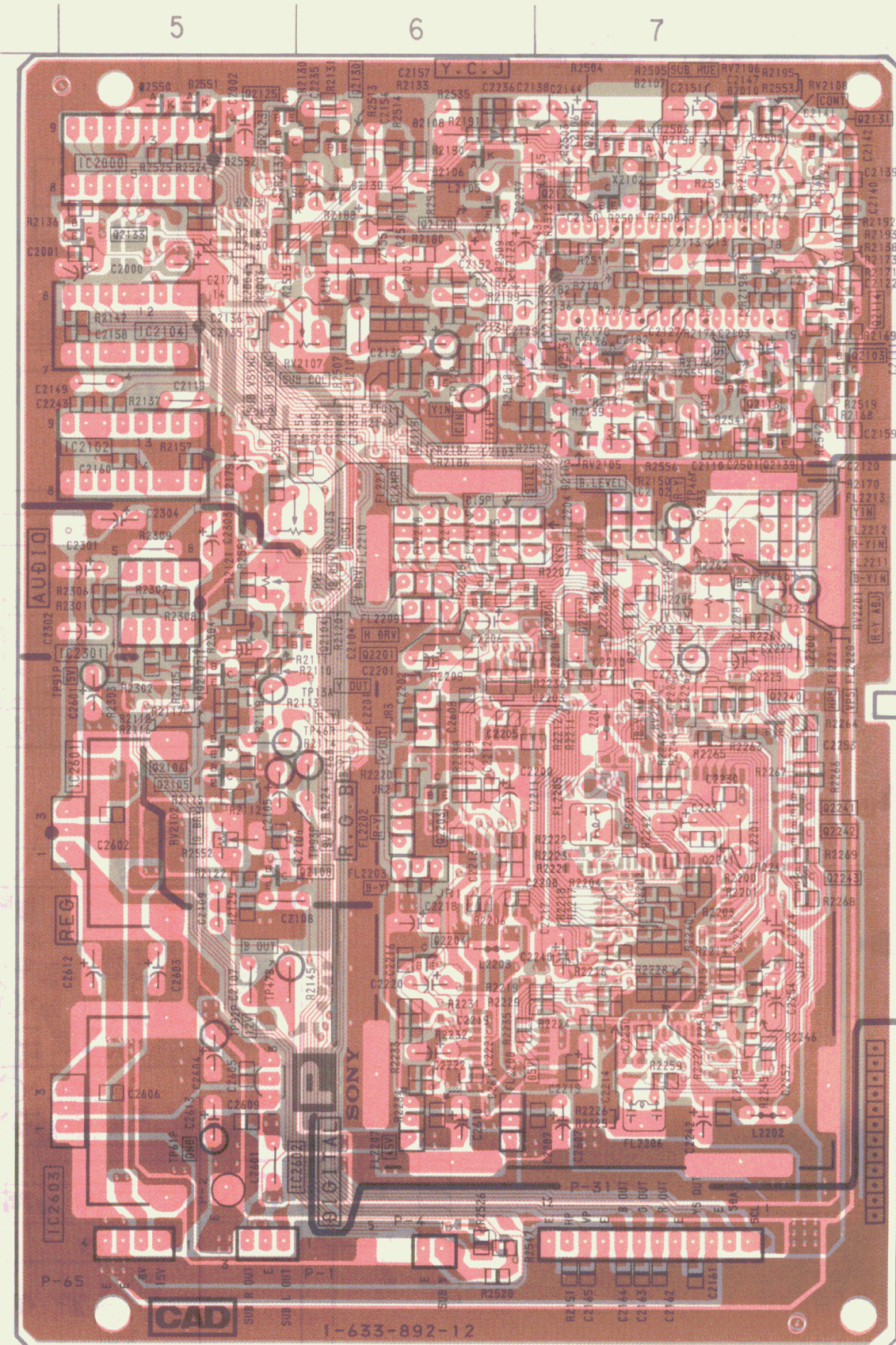
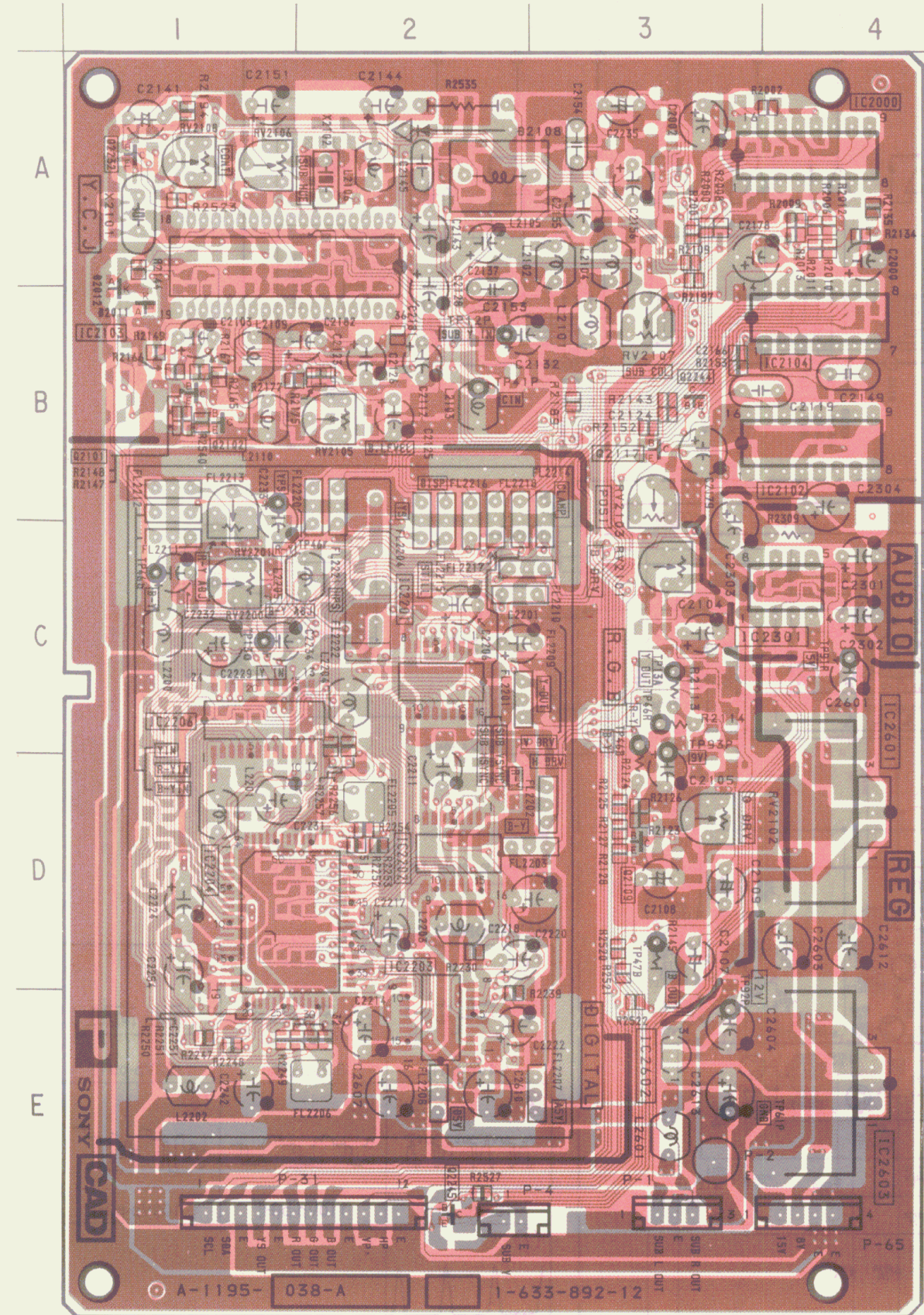


P [Y/C DECODER, D/A CONVERTER,
R-Y/B-Y OUT, R.G.B MATRIX]

— P Board — (KV-27EXR25 only)

— Component side —

— Conductor side —



P Board

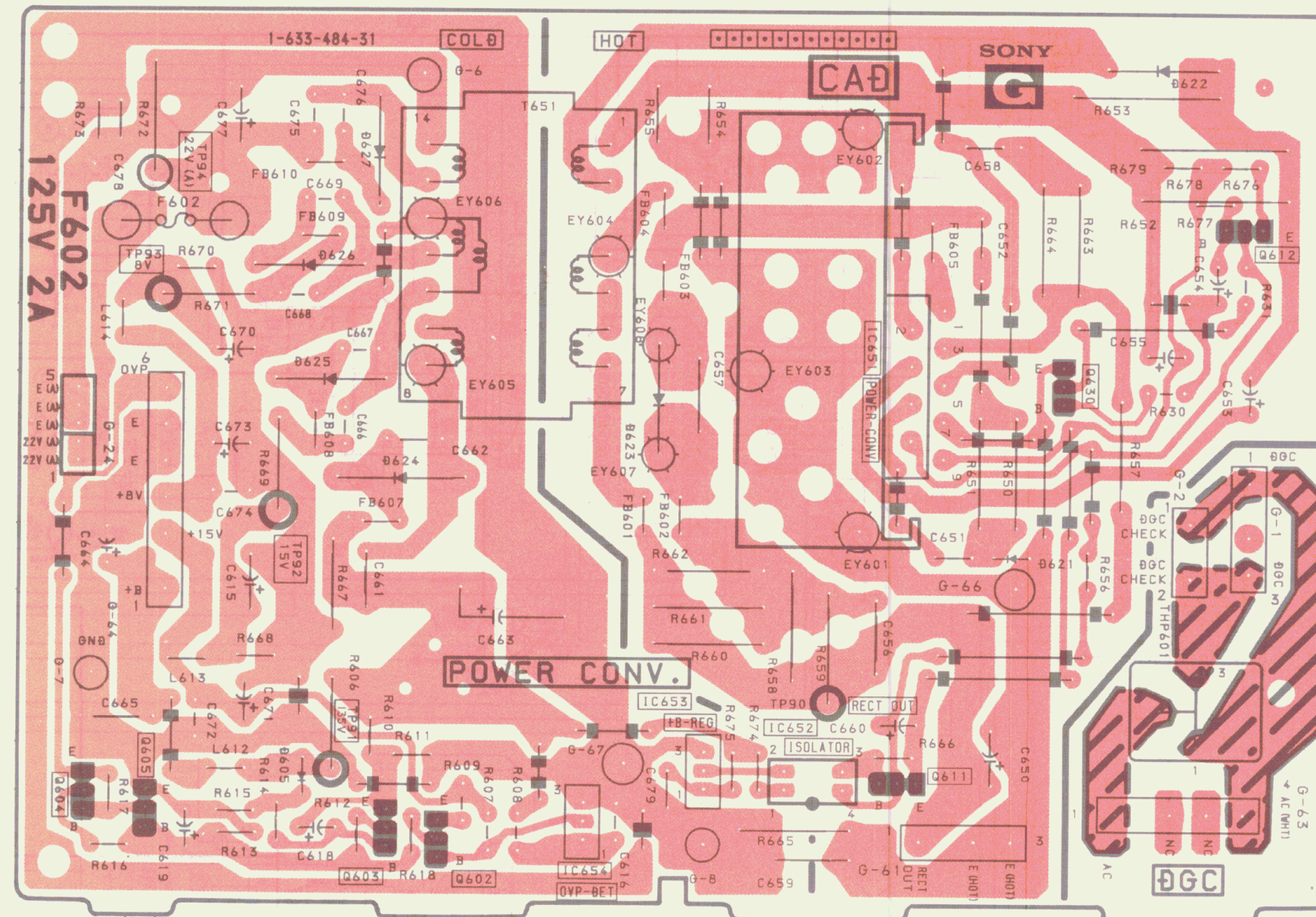
| IC | TRANSISTOR | DIODE |
|------------|------------|-------------------|
| IC2000 A-5 | Q2121 A-7 | D2551 A-5 |
| IC2102 B-5 | Q2122 A-7 | D2552 A-5 |
| IC2103 A-7 | Q2123 A-5 | D2553 B-7 |
| IC2104 B-5 | Q2125 A-5 | |
| IC2201 C-2 | Q2130 A-6 | |
| | | VARIABLE RESISTOR |
| IC2202 D-2 | Q2131 A-7 | RV2103 B-5 |
| IC2203 E-2 | Q2133 A-5 | RV2105 B-7 |
| IC2204 D-1 | Q2134 B-7 | RV2106 A-7 |
| IC2206 C-1 | Q2139 B-7 | RV2107 B-6 |
| IC2601 D-5 | Q2200 C-6 | RV2108 A-7 |
| IC2602 E-5 | Q2201 C-6 | RV2200 C-7 |
| IC2603 E-5 | Q2202 C-7 | RV2201 C-7 |
| | Q2203 D-6 | |
| | Q2204 D-6 | TEST POINT |
| | Q2232 A-1 | |
| Q2101 B-1 | Q2244 B-3 | TP12P B-6 |
| Q2102 B-1 | Q2245 E-2 | TP13A C-5 |
| Q2103 B-7 | | TP13a C-7 |
| Q2104 C-6 | | TP41P B-6 |
| Q2105 D-5 | | TP46B C-6 |
| | | DIODE |
| Q2106 C-5 | D2011 B-1 | TP46R C-5 |
| Q2107 C-5 | D2012 A-1 | TP46B C-7 |
| Q2108 D-5 | D2102 B-7 | TP46F B-7 |
| Q2109 D-3 | D2103 B-7 | TP47B D-5 |
| Q2114 B-7 | D2106 A-6 | TP61P E-5 |
| Q2115 B-7 | D2107 A-7 | TP91P C-5 |
| Q2116 B-7 | D2108 A-6 | TP92P E-5 |
| Q2117 B-3 | D2130 A-6 | TP93P D-5 |
| Q2119 B-6 | D2131 A-5 | |
| Q2120 A-6 | D2550 A-5 | |

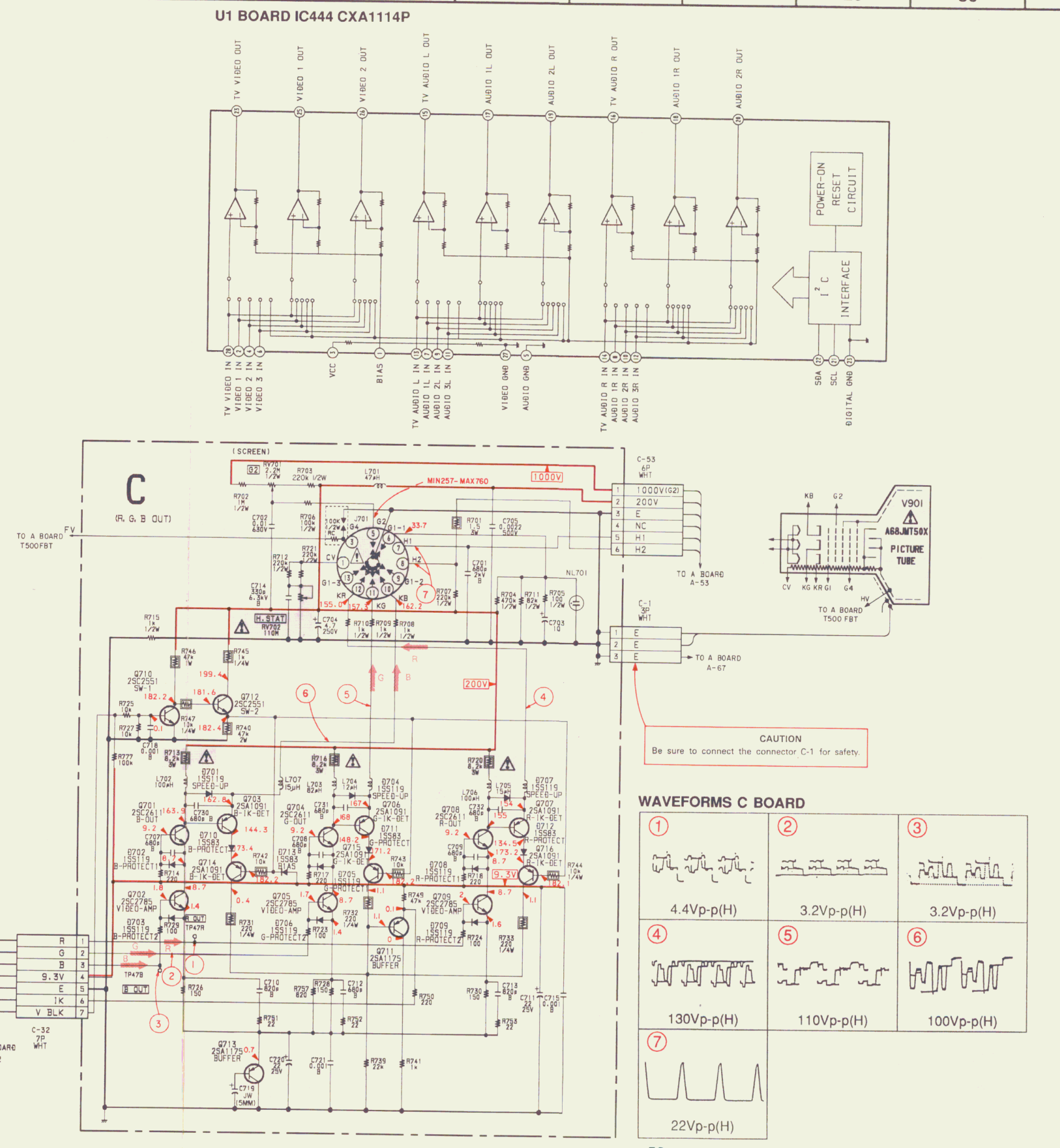
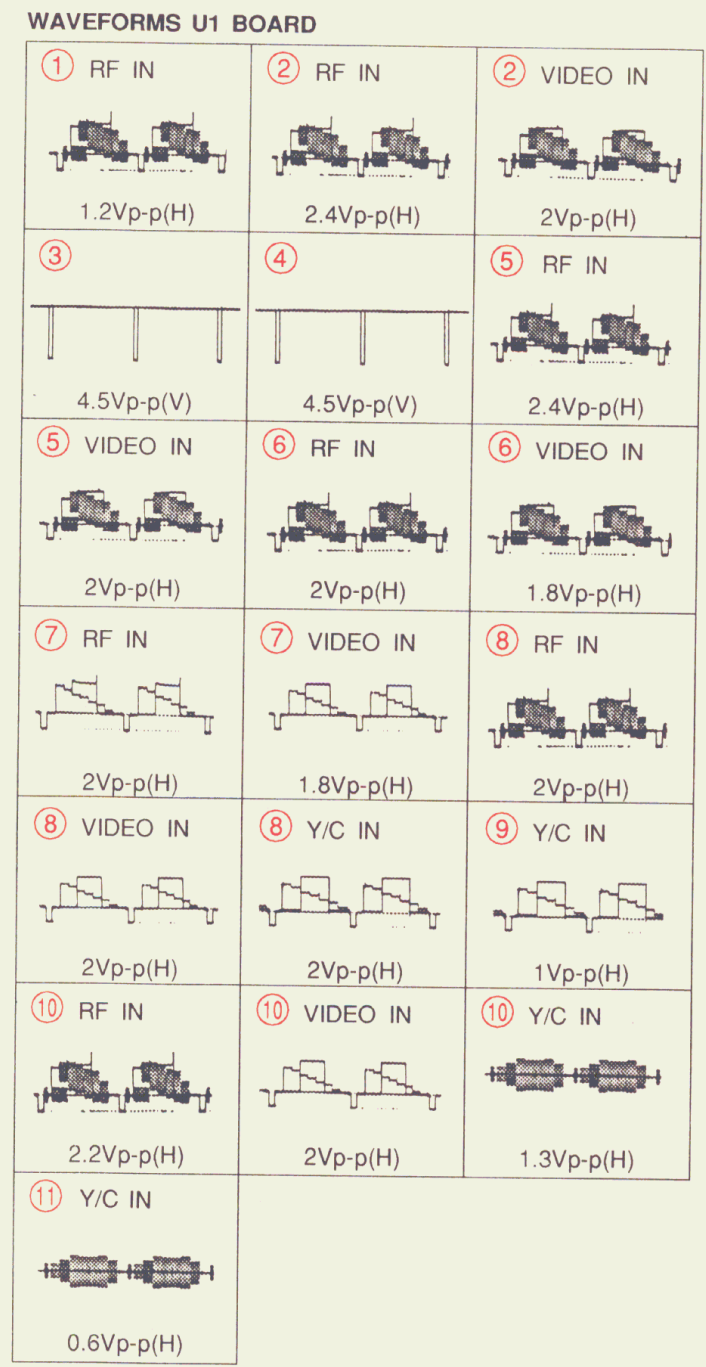
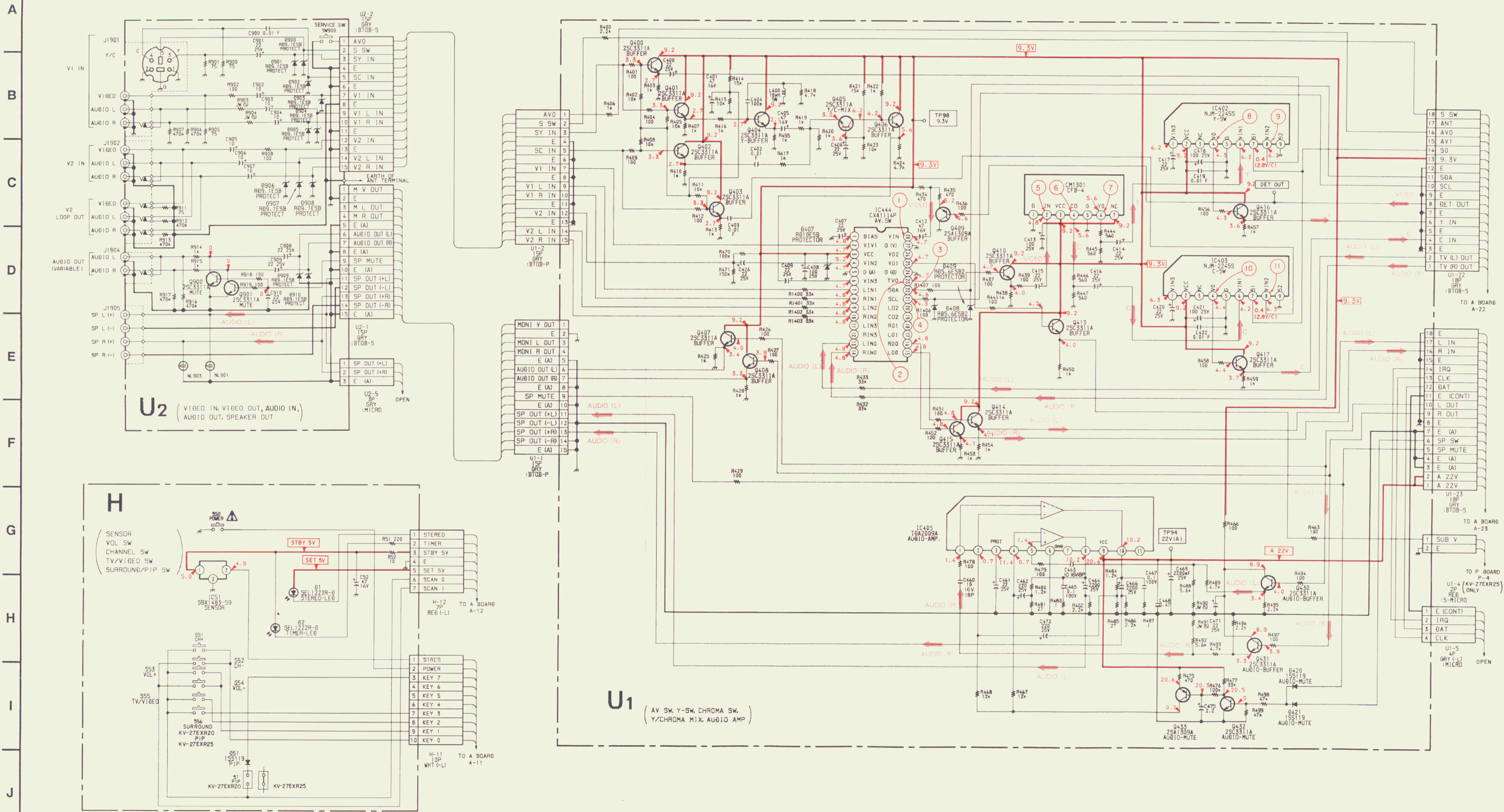
● : pattern from the side which enables seeing.
● : pattern of the rear side.

G

[POWER CONV, ISOLATOR]

— G Board —





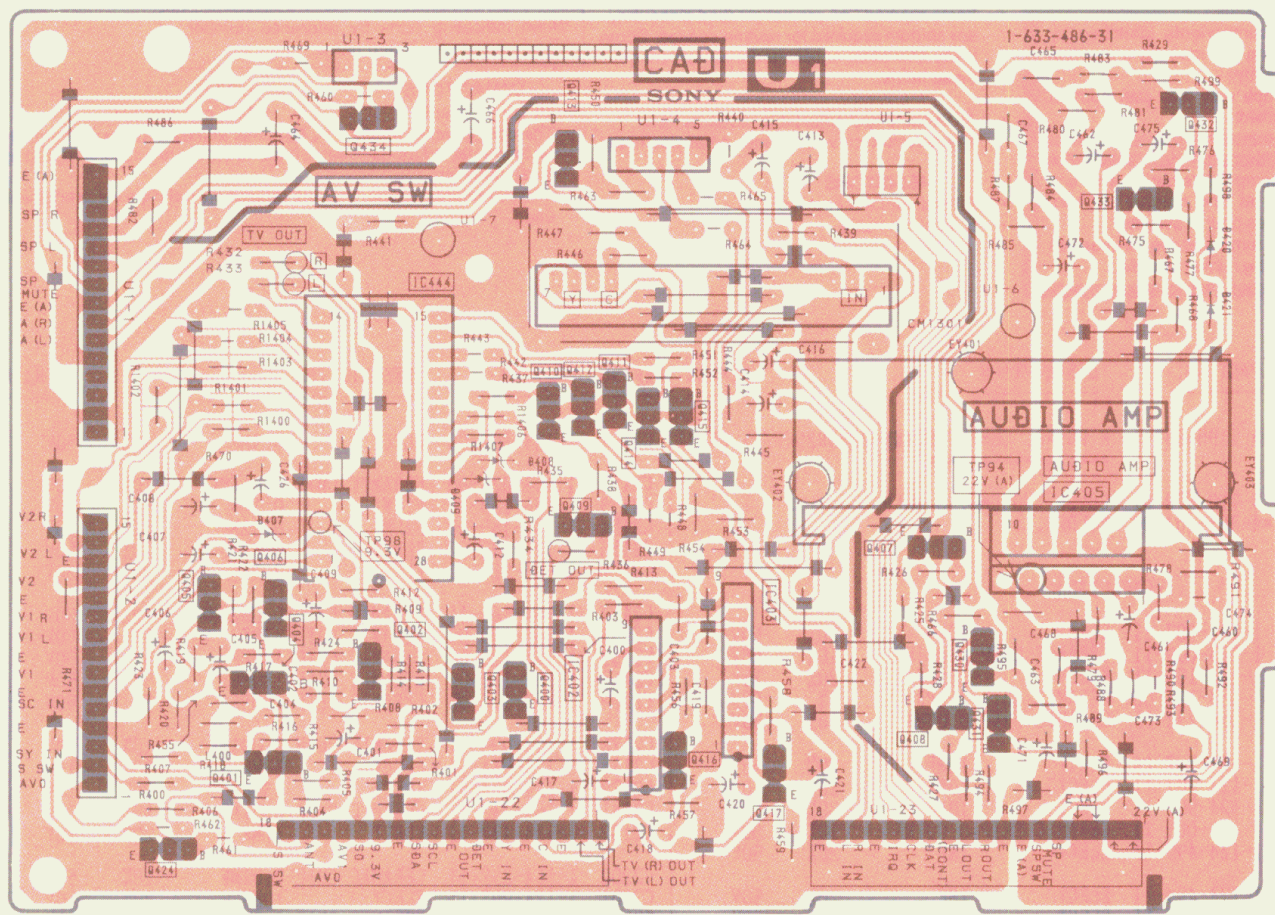
U1 [AV.SW, Y-SW, CHROMA SW, Y/CHROMA MIX, AUDIO AMP]

U2 [VIDEO IN, VIDEO OUT, AUDIO OUT, SPEAKER OUT]

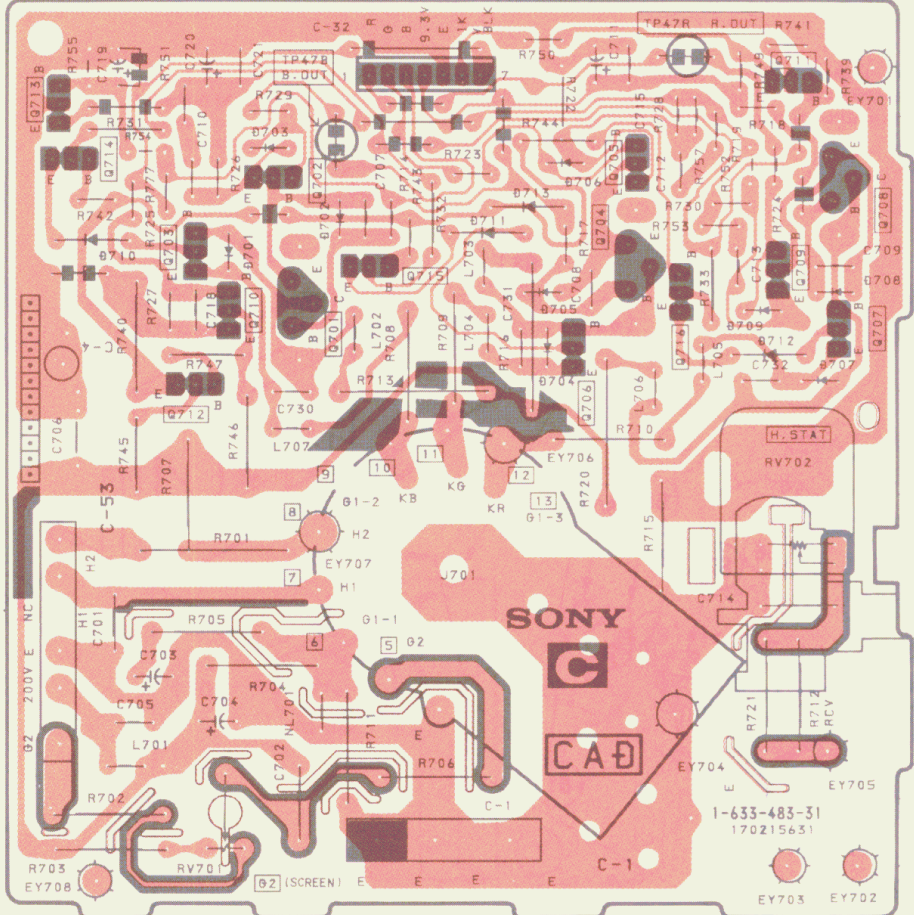
C [R.G.B. OUT]

H [SENSOR, VOL SW, CHANNEL SW, TV/VIDEO SW, SURROUND/PIP SW]

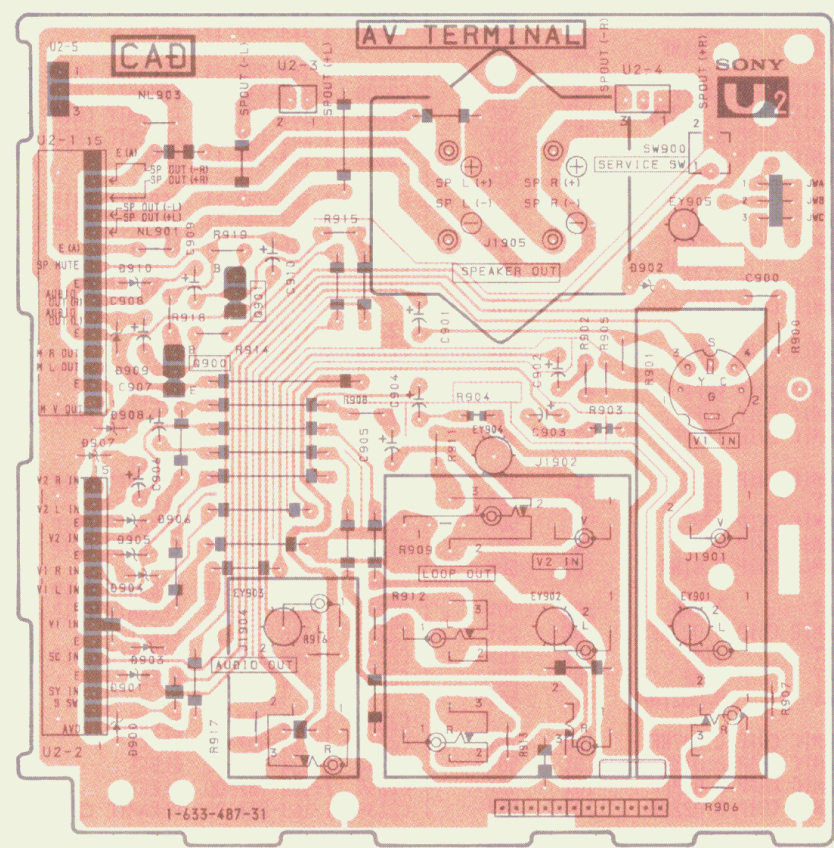
— U1 Board —



— C Board —

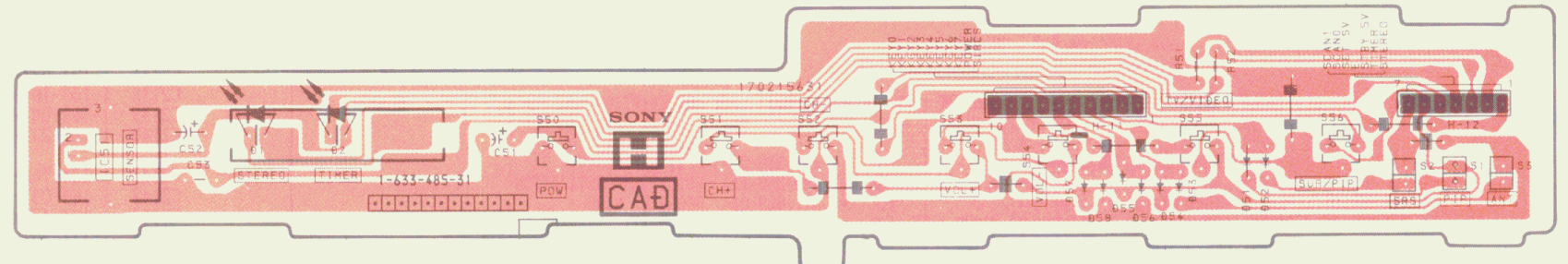


— U2 Board —



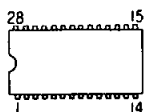
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

— H Board —



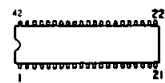
6-4. SEMICONDUCTORS

CXA1114P



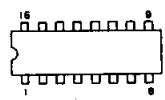
(Top view)

CXA1264AS



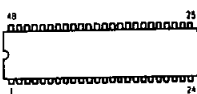
(Top view)

CXA1315P
MB88201-638L
SN74LS123N



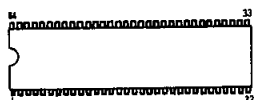
(TOP VIEW)

CXA1313S



(TOP VIEW)

M37100M8-115SP

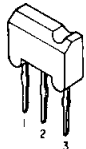


(Top view)

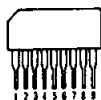
MC7809CT
RC7809FA
RD78M05FA
UPC7893HF



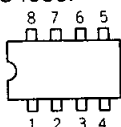
MN1280-S



NJM2245S



PCD8582
RC4558P

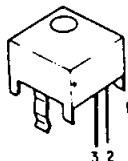


(Top view)

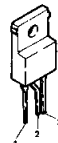
RC78L12A



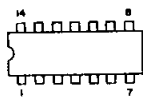
SBX1483-59



SE-135NS

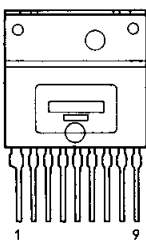


SN74LS19AN



(TOP VIEW)

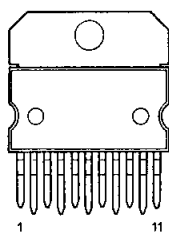
STR-S6301



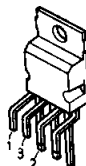
TA8601BN-FA-1



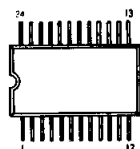
TDA2009A



TDA8172



UPC661G
UPC661G-E1

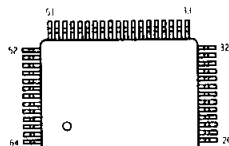


(TOP VIEW)

UPC78N05H

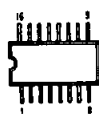


UPD42272AGF



TOP VIEW

UPD6901G
UPD6901G-E1



(TOP VIEW)

2SA1037K
2SA1162
2SA812
2SC1623
2SC2713
2SC3052E
2SC3722K



2SA1091
2SA10910
2SA1091R
2SC2551
2SC25510



2SA1175
2SA1309A
2SC2785
2SC3311A



2SA937
2SC1652
2SC2673



2SC2611
2SC2688

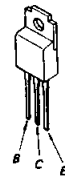
letter side



2SD1408



2SD1761



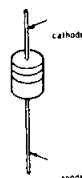
2SD1886CA



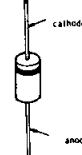
1S2837
MA152WK



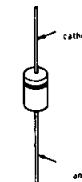
1SS113
1SS119
RD10ES-B
RD10ES-B2
RD12ES-B2
RD18ES-B1
RD18ES-B2
RD24ES-B1
RD33ES-B2
RD5.6ES-B2
RD6.2ES-B2
RD9.1ES-B
RD9.1ES-B2
WG713A



1SS83
EGP20G
EL1Z
ERB91-02
EU2A
GP08DPKG23
RGP02-17
RGP10GPKG23
RGP15GPKG23



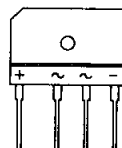
ERB93-02
RS3FS
RU-1P
RU-3AM
RU30A
RU4AM



PC817-C
PS2501-1LB



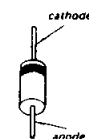
RBV-406H



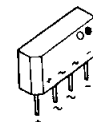
RD12M-B1
RD3.6M-B1
RD5.1M-B1
RD5.1M-B2
RD6.8M-B1



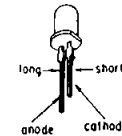
RU4DS



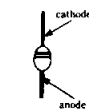
S1VB10-S
S1VB40



SEL1222R



U05G



SECTION 7 EXPLODED VIEWS

NOTE:

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

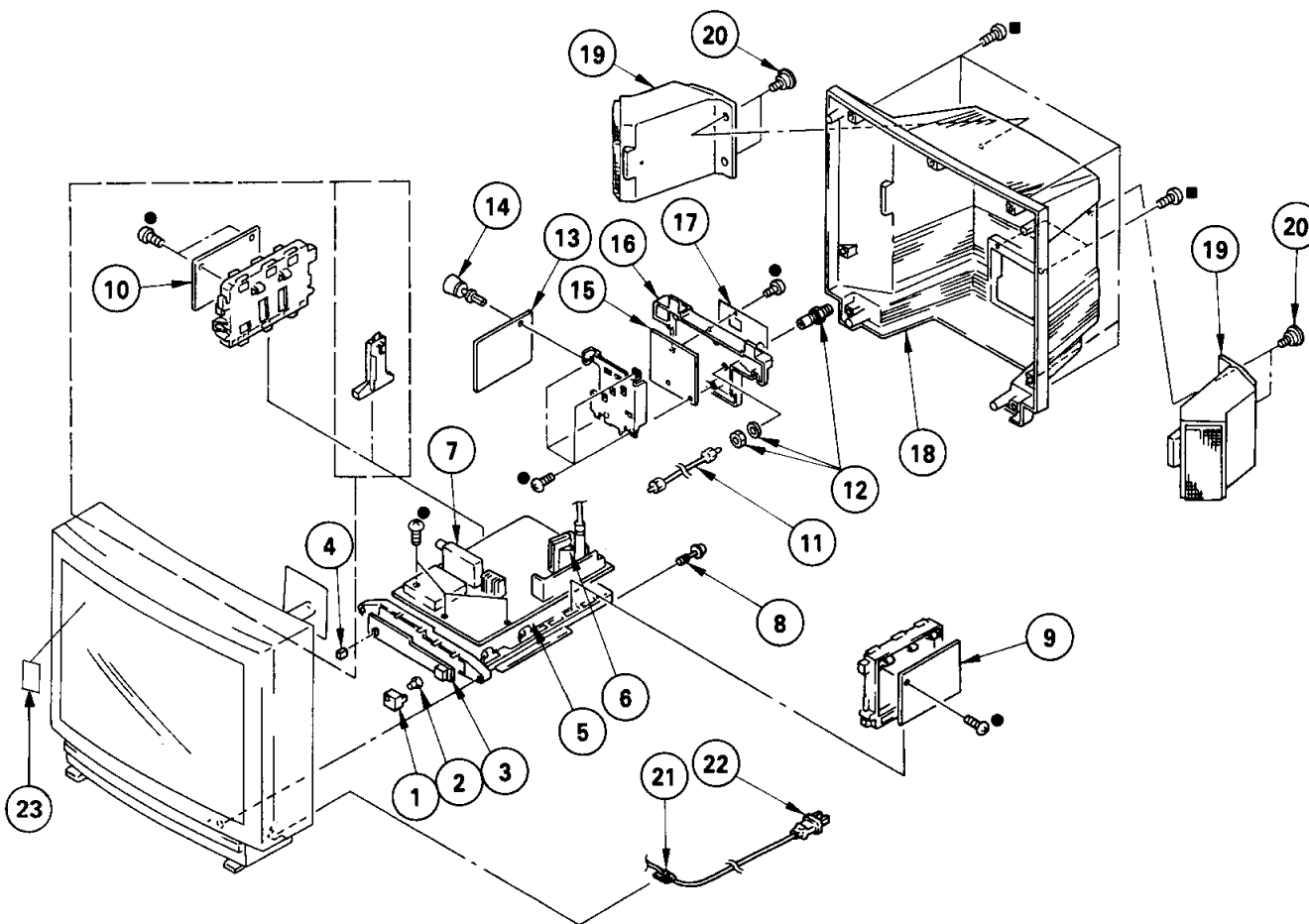
The components identified by shading and mark **▲** are critical for safety. Replace only with part number specified.

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

7-1. CHASSIS

- : BVTP3x12 7-685-648-79
- : BVTP4x16 7-685-663-79

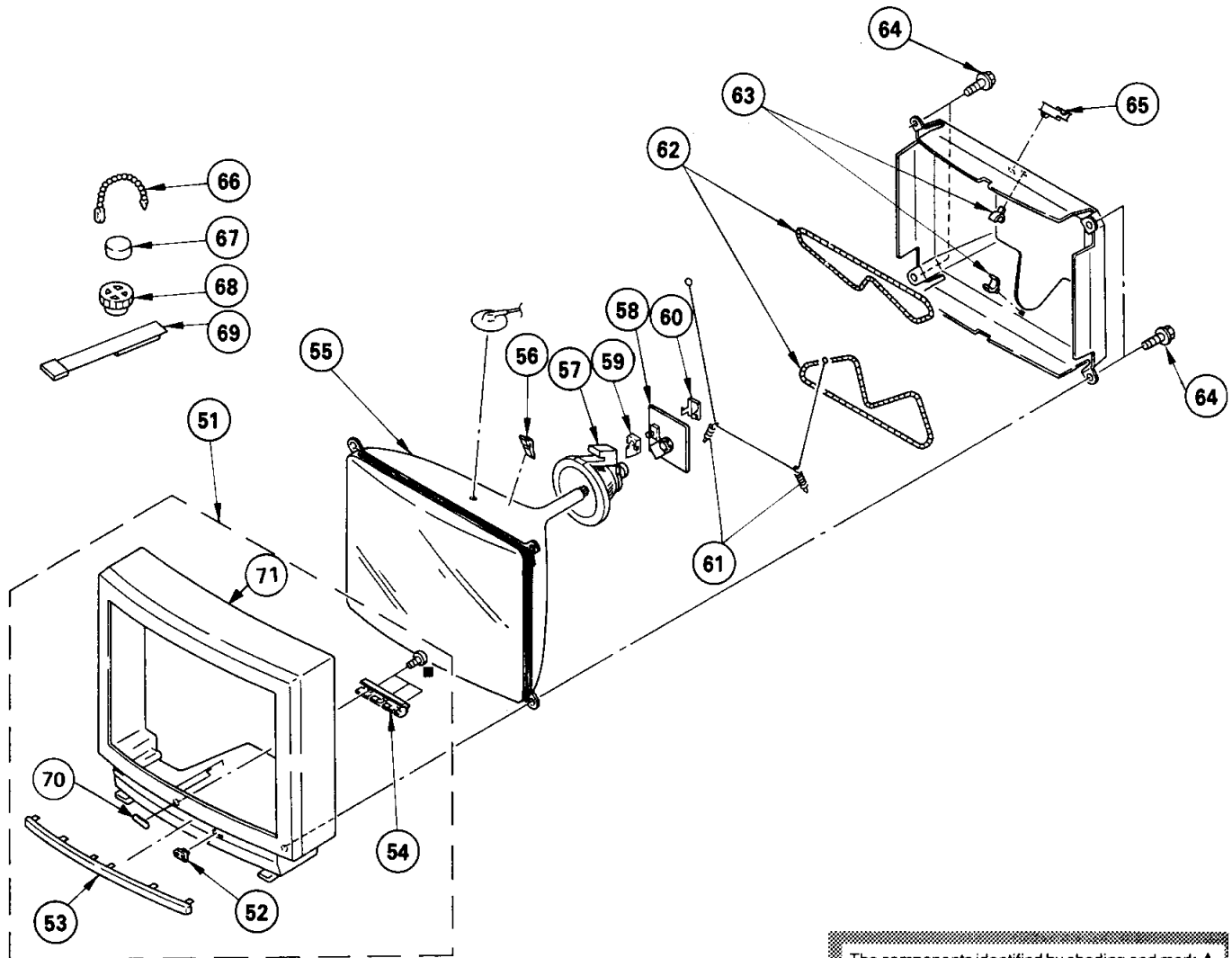
559



| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|----------------|---|-------------------------|----------|----------------|------------------------------|--------|
| 1 | *4-381-686-01 | BRACKET (B), LIGHT GUIDE | | 12 | 1-561-306-00 | JACK, PIN (F) | |
| 2 | *4-374-987-01 | GUIDE, LIGHT | | 13 | *A-1394-219-A | U1 BOARD, COMPLETE | |
| 3 | *1-633-485-31 | H BOARD | | 14 | *4-397-418-01 | RIVET, T TYPE | |
| 4 | *1-565-514-11 | SOCKET, CONNECTOR 2P | (KV-27EXR25 (U/C) ONLY) | 15 | *1-633-487-31 | U2 BOARD | |
| 5 | *A-1296-697-A | A BOARD, COMPLETE | | 16 | 4-397-918-01 | TERMINAL BOARD, ANTENNA | |
| 6 | ▲.1-439-416-41 | TRANSFORMER ASSY, FLYBACK (NX-1604) | | 17 | 4-397-908-01 | LABEL (A), ANTENNA | |
| 7 | ▲.1-465-384-11 | TUNER, ET (BTP-202) | | 18 | 4-397-928-01 | COVER, REAR | |
| 8 | 4-319-520-11 | SCREW, SPECIAL (+PW4X30) | | 19 | 1-544-313-11 | SPEAKER UNIT | |
| 9 | *A-1316-100-A | G BOARD, COMPLETE | | 20 | 4-394-044-01 | SCREW, STEP HILO TAPPING | |
| 10 | *A-1195-038-A | P BOARD, COMPLETE (KV-27EXR25 (U/C) ONLY) | | 21 | ▲.4-388-328-01 | GROMMET, AC CORD | |
| 11 | *1-556-945-21 | CABLE, P-P | | 22 | ▲.1-590-492-11 | CORD, POWER (WITH CONNECTOR) | |
| | | | | 23 | *3-703-703-01 | STICKER, SONY SYMBOL (50) | |

7-2. PICTURE TUBE

■ : BVTP4x16 7-685-663-79



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

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

| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|-----------------------|--|--------------|----------|-----------------------|-------------------------------------|--------|
| 51 | X-4397-906-1 | CABINET ASSY (WITH BEZEL ASSY) | | 61 | 4-369-318-00 | SPRING, TENSION | |
| 52 | *4-397-927-01 | PLATE, LIGHT GUIDE | 52-54, 70-72 | 62 | Δ 1-426-350-11 | COIL, DEMAGNETIZATION | |
| 53 | 4-397-929-01 | PANEL, ORNAMENTAL (KV-27EXR20(U) ONLY) | | 63 | *4-371-629-01 | STOPPER, WIRE | |
| | 4-397-929-11 | PANEL, ORNAMENTAL (KV-27EXR25(U/C) ONLY) | | 64 | 4-390-505-01 | SCREW (7), TAPPING | |
| 54 | X-4397-910-1 | BUTTON ASSY, MULTI | | 65 | *4-387-284-01 | HOLDER, LEAD | |
| 55 | Δ 8-737-753-05 | PICTURE TUBE (A68JMT50X) | | 66 | 4-308-870-00 | CLIP, LEAD WIRE | |
| 56 | 3-704-495-01 | SPACER, DY | | 67 | 1-452-032-00 | MAGNET, DISK; 10MM ϕ | |
| 57 | Δ 1-451-275-31 | DEFLECTION YOKE (Y28PFA) | | 68 | 1-452-094-00 | MAGNET, ROTATABLE DISK; 15MM ϕ | |
| 58 | *A-1331-055-A | C BOARD, COMPLETE | | 69 | X-4306-312-0 | PERMALLOY ASSY, CONVERGENCE | |
| 59 | *4-379-167-01 | COVER (MAIN), CV | | 70 | 4-394-048-01 | EMBLEM (NO.9), SONY | |
| 60 | *4-379-160-01 | COVER (REAR LID), CV | | 71 | 4-397-931-01 | BEZNET (KV-27EXR20(U) ONLY) | |
| | | | | | 4-397-931-12 | BEZNET (KV-27EXR25(U/C) ONLY) | |



| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|------------|--------------|-------------|------------------|----------|--------------|-------------|---------------|
| <RESISTOR> | | | | | | | |
| JR1 | 1-216-295-00 | METAL GLAZE | 0 5% 1/10W | R2165 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W |
| JR2 | 1-216-295-00 | METAL GLAZE | 0 5% 1/10W | R2166 | 1-216-085-00 | METAL GLAZE | 33K 5% 1/10W |
| JR3 | 1-216-295-00 | METAL GLAZE | 0 5% 1/10W | R2167 | 1-216-057-00 | METAL GLAZE | 2.2K 5% 1/10W |
| JR4 | 1-216-295-00 | METAL GLAZE | 0 5% 1/10W | R2168 | 1-216-057-00 | METAL GLAZE | 2.2K 5% 1/10W |
| R2000 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W | R2169 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| R2001 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W | R2170 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2002 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W | R2171 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| R2003 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W | R2172 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2004 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W | R2173 | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W |
| R2006 | 1-216-055-00 | METAL GLAZE | 1.8K 5% 1/10W | R2174 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| R2008 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W | R2175 | 1-216-071-00 | METAL GLAZE | 8.2K 5% 1/10W |
| R2009 | 1-216-093-00 | METAL GLAZE | 68K 5% 1/10W | R2177 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| R2010 | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W | R2178 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| R2011 | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W | R2179 | 1-216-109-00 | METAL GLAZE | 330K 5% 1/10W |
| R2012 | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W | R2180 | 1-216-053-00 | METAL GLAZE | 1.5K 5% 1/10W |
| R2013 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W | R2181 | 1-216-067-00 | METAL GLAZE | 5.6K 5% 1/10W |
| R2108 | 1-216-075-00 | METAL GLAZE | 12K 5% 1/10W | R2182 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| R2109 | 1-216-075-00 | METAL GLAZE | 12K 5% 1/10W | R2183 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W |
| R2110 | 1-216-077-00 | METAL GLAZE | 15K 5% 1/10W | R2184 | 1-216-051-00 | METAL GLAZE | 1.2K 5% 1/10W |
| R2111 | 1-216-657-11 | METAL CHIP | 1.8K 0.50% 1/10W | R2185 | 1-216-053-00 | METAL GLAZE | 1.5K 5% 1/10W |
| R2112 | 1-216-657-11 | METAL CHIP | 1.8K 0.50% 1/10W | R2186 | 1-216-057-00 | METAL GLAZE | 2.2K 5% 1/10W |
| R2113 | 1-215-425-00 | METAL | 1.5K 1% 1/4W | R2187 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W |
| R2114 | 1-249-418-11 | CARBON | 1.2K 5% 1/4W | R2188 | 1-216-053-00 | METAL GLAZE | 1.5K 5% 1/10W |
| R2115 | 1-216-059-00 | METAL GLAZE | 2.7K 5% 1/10W | R2189 | 1-216-057-00 | METAL GLAZE | 2.2K 5% 1/10W |
| R2116 | 1-216-067-00 | METAL GLAZE | 5.6K 5% 1/10W | R2190 | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W |
| R2117 | 1-216-655-11 | METAL CHIP | 1.5K 0.50% 1/10W | R2191 | 1-216-085-00 | METAL GLAZE | 33K 5% 1/10W |
| R2118 | 1-216-051-00 | METAL GLAZE | 1.2K 5% 1/10W | R2192 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2119 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W | R2193 | 1-216-055-00 | METAL GLAZE | 1.8K 5% 1/10W |
| R2120 | 1-216-748-11 | METAL GLAZE | 39K 5% 1/10W | R2194 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W |
| R2121 | 1-216-059-00 | METAL GLAZE | 2.7K 5% 1/10W | R2195 | 1-216-053-00 | METAL GLAZE | 1.5K 5% 1/10W |
| R2122 | 1-216-656-11 | METAL CHIP | 1.6K 0.50% 1/10W | R2196 | 1-216-294-00 | METAL GLAZE | 10M 5% 1/8W |
| R2123 | 1-216-057-00 | METAL GLAZE | 2.2K 5% 1/10W | R2197 | 1-216-071-00 | METAL GLAZE | 8.2K 5% 1/10W |
| R2124 | 1-215-434-00 | METAL | 3.6K 1% 1/4W | R2198 | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W |
| R2125 | 1-216-057-00 | METAL GLAZE | 2.2K 5% 1/10W | R2199 | 1-216-085-00 | METAL GLAZE | 33K 5% 1/10W |
| R2126 | 1-216-055-00 | METAL GLAZE | 1.8K 5% 1/10W | R2200 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2127 | 1-216-655-11 | METAL CHIP | 1.5K 0.50% 1/10W | R2201 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2128 | 1-216-055-00 | METAL GLAZE | 1.8K 5% 1/10W | R2202 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2129 | 1-216-059-00 | METAL GLAZE | 2.7K 5% 1/10W | R2203 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2130 | 1-216-077-00 | METAL GLAZE | 15K 5% 1/10W | R2204 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2131 | 1-216-105-00 | METAL GLAZE | 220K 5% 1/10W | R2205 | 1-216-295-00 | METAL GLAZE | 0 5% 1/10W |
| R2132 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | R2207 | 1-216-085-00 | METAL GLAZE | 33K 5% 1/10W |
| R2133 | 1-216-037-00 | METAL GLAZE | 330 5% 1/10W | R2208 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W |
| R2134 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W | R2209 | 1-216-081-00 | METAL GLAZE | 22K 5% 1/10W |
| R2135 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | R2210 | 1-216-039-00 | METAL GLAZE | 390 5% 1/10W |
| R2136 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W | R2211 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| R2137 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | R2212 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| R2139 | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W | R2213 | 1-216-051-00 | METAL GLAZE | 1.2K 5% 1/10W |
| R2140 | 1-216-093-00 | METAL GLAZE | 68K 5% 1/10W | R2214 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2141 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W | R2215 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2142 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | R2216 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2143 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | R2217 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2144 | 1-216-041-00 | METAL GLAZE | 470 5% 1/10W | R2218 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2145 | 1-249-377-11 | CARBON | 0.47 5% 1/4W F | R2219 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2146 | 1-216-057-00 | METAL GLAZE | 2.2K 5% 1/10W | R2220 | 1-216-051-00 | METAL GLAZE | 1.2K 5% 1/10W |
| R2147 | 1-216-057-00 | METAL GLAZE | 2.2K 5% 1/10W | R2221 | 1-216-039-00 | METAL GLAZE | 390 5% 1/10W |
| R2148 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | R2222 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| R2149 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W | R2223 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W |
| R2150 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W | R2224 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2152 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W | R2225 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2153 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W | R2226 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2154 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | R2227 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| R2157 | 1-216-057-00 | METAL GLAZE | 2.2K 5% 1/10W | R2228 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |
| | | | | R2229 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W |



| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|-------------|---------------|----------|---------------|---|--------|
| R2230 | 1-216-051-00 | METAL GLAZE | 1.2K 5% 1/10W | R2552 | 1-216-633-11 | METAL CHIP 180 0.50% 1/10W | |
| R2231 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | | | <VARIABLE RESISTOR> | |
| R2232 | 1-216-039-00 | METAL GLAZE | 390 5% 1/10W | RV2103 | 1-238-013-11 | RES. ADJ. CARBON 2.2K | |
| R2233 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W | RV2105 | 1-238-013-11 | RES. ADJ. CARBON 2.2K | |
| R2234 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W | RV2106 | 1-238-017-11 | RES. ADJ. CARBON 22K | |
| R2236 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | RV2107 | 1-238-016-11 | RES. ADJ. CARBON 10K | |
| R2237 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | RV2108 | 1-238-012-11 | RES. ADJ. CARBON 1K | |
| R2238 | 1-216-037-00 | METAL GLAZE | 330 5% 1/10W | RV2200 | 1-238-023-11 | RES. ADJ. CARBON 470K | |
| R2239 | 1-216-037-00 | METAL GLAZE | 330 5% 1/10W | RV2201 | 1-238-023-11 | RES. ADJ. CARBON 470K | |
| R2240 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W | | | <CRYSTAL> | |
| R2241 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | X2101 | 1-567-505-11 | OSCILLATOR, CRYSTAL | |
| R2242 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | X2102 | 1-577-706-11 | VIBRATOR, CERAMIC | |
| R2243 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | | | ***** | |
| R2244 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | | | *A-1296-697-A A BOARD, COMPLETE | |
| R2245 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | | | ***** | |
| R2246 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | | | *4-393-401-01 SPRING | |
| R2247 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | | | *4-341-751-01 EYELET (EY6, EY9, EY13, EY14, EY17, EY19, EY20, EY22, EY25, EY26, EY28-EY31, EY52-EY54, EY59) | |
| R2248 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | | | *4-341-752-01 EYELET (EY1~EY5, EY8, EY10~EY12, EY15, EY16, EY23, EY24, EY27, EY32~EY35, EY44~EY48, EY56, EY57, EY60~EY63) | |
| R2249 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | | | <CONNECTOR> | |
| R2250 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | A11 | *1-564-513-11 | PLUG, CONNECTOR 10P | |
| R2251 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | A12 | *1-564-510-11 | PLUG, CONNECTOR 7P | |
| R2252 | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W | A22 | *1-565-509-11 | CONNECTOR, BOARD TO BOARD 18P | |
| R2253 | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W | A23 | *1-565-509-11 | CONNECTOR, BOARD TO BOARD 18P | |
| R2254 | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W | A24 | *1-564-508-11 | PLUG, CONNECTOR 5P | |
| R2256 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | A31 | *1-564-515-11 | PLUG, CONNECTOR 12P | |
| R2257 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | A32 | *1-564-510-11 | PLUG, CONNECTOR 7P | |
| R2258 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | A51 | *1-560-290-00 | PLUG, CONNECTOR (2.5MM PITCH) | |
| R2259 | 1-216-039-00 | METAL GLAZE | 390 5% 1/10W | A52 | *1-568-536-11 | PLUG (MINIATURE DY) 6P | |
| R2260 | 1-216-031-00 | METAL GLAZE | 180 5% 1/10W | A53 | *1-508-768-00 | PIN, CONNECTOR (5MM PITCH) 6P | |
| R2261 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W | A55 | *1-508-767-00 | PIN, CONNECTOR (5MM PITCH) 5P | |
| R2262 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W | A56 | *1-559-991-21 | CONNECTOR ASSY 1P | |
| R2501 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W | A61 | *1-508-765-00 | PIN, CONNECTOR (5MM PITCH) 3P | |
| R2502 | 1-216-055-00 | METAL GLAZE | 1.8K 5% 1/10W | A63 | *1-508-766-00 | PIN, CONNECTOR (5MM PITCH) 4P | |
| R2503 | 1-216-057-00 | METAL GLAZE | 2.2K 5% 1/10W | A64 | *1-508-768-00 | PIN, CONNECTOR (5MM PITCH) 6P | |
| R2504 | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W | A65 | *1-564-507-11 | PLUG, CONNECTOR 4P | |
| R2505 | 1-216-037-00 | METAL GLAZE | 330 5% 1/10W | A75 | *1-580-843-11 | PIN, CONNECTOR (POWER) | |
| R2506 | 1-216-095-00 | METAL GLAZE | 82K 5% 1/10W | | | <CAPACITOR> | |
| R2507 | 1-216-059-00 | METAL GLAZE | 2.7K 5% 1/10W | C101 | 1-124-907-11 | ELECT 10MF 20% 50V | |
| R2508 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W | C102 | 1-126-233-11 | ELECT 22MF 20% 25V | |
| R2509 | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W | C103 | 1-124-360-00 | ELECT 1000MF 20% 16V | |
| R2510 | 1-216-123-11 | METAL GLAZE | 1.2M 5% 1/10W | C104 | 1-126-176-11 | ELECT 220MF 20% 10V | |
| R2511 | 1-216-121-00 | METAL GLAZE | 1M 5% 1/10W | C105 | 1-126-101-11 | ELECT 100MF 20% 16V | |
| R2512 | 1-216-101-00 | METAL GLAZE | 150K 5% 1/10W | C106 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |
| R2513 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W | C107 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |
| R2514 | 1-216-029-00 | METAL GLAZE | 150 5% 1/10W | C108 | 1-102-129-00 | CERAMIC 0.01MF 10% 50V | |
| R2515 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | C110 | 1-162-215-31 | CERAMIC 47PF 5% 50V | |
| R2516 | 1-216-037-00 | METAL GLAZE | 330 5% 1/10W | C112 | 1-124-925-11 | ELECT 2.2MF 20% 50V | |
| R2517 | 1-216-075-00 | METAL GLAZE | 12K 5% 1/10W | C113 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |
| R2519 | 1-216-057-00 | METAL GLAZE | 2.2K 5% 1/10W | C114 | 1-124-907-11 | ELECT 10MF 20% 50V | |
| R2520 | 1-216-295-00 | METAL GLAZE | 0 5% 1/10W | C116 | 1-102-973-00 | CERAMIC 100PF 5% 50V | |
| R2521 | 1-216-295-00 | METAL GLAZE | 0 5% 1/10W | | | | |
| R2522 | 1-216-295-00 | METAL GLAZE | 0 5% 1/10W | | | | |
| R2523 | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W | | | | |
| R2524 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W | | | | |
| R2525 | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W | | | | |
| R2526 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | | | | |
| R2527 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | | | | |
| R2528 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | | | | |
| R2535 | 1-215-857-11 | METAL OXIDE | 10 5% 1W F | | | | |
| R2540 | 1-216-077-00 | METAL GLAZE | 15K 5% 1/10W | | | | |
| R2541 | 1-216-077-00 | METAL GLAZE | 15K 5% 1/10W | | | | |
| R2542 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | | | | |
| R2550 | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W | | | | |
| R2551 | 1-216-295-00 | METAL GLAZE | 0 5% 1/10W | | | | |

A

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

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

| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|----------------|-------------|----------|----------|----------|-------------|--------|
| C118 | 1-102-973-00 | CERAMIC | 100PF | 5% | 50V | | |
| C119 | 1-130-728-00 | FILM | 0.0022MF | 5% | 50V | | |
| C120 | 1-119-160-00 | ELECT | 470MF | | 10V | | |
| C121 | 1-102-976-00 | CERAMIC | 180PF | 5% | 50V | | |
| C122 | 1-102-973-00 | CERAMIC | 100PF | 5% | 50V | | |
| C123 | 1-124-477-11 | ELECT | 47MF | 20% | 16V | | |
| C124 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V | | |
| C125 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V | | |
| C126 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C127 | 1-102-978-00 | CERAMIC | 220PF | 5% | 50V | | |
| C128 | 1-102-129-00 | CERAMIC | 0.01MF | 10% | 50V | | |
| C129 | 1-101-006-00 | CERAMIC | 0.047MF | | 50V | | |
| C130 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V | | |
| C131 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V | | |
| C132 | 1-102-129-00 | CERAMIC | 0.01MF | 10% | 50V | | |
| C134 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V | | |
| C135 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V | | |
| C136 | 1-124-477-11 | ELECT | 47MF | 20% | 25V | | |
| C241 | 1-124-907-11 | ELECT | 10MF | 20% | 50V | | |
| C251 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C252 | 1-136-157-00 | FILM | 0.022MF | 5% | 50V | | |
| C253 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C254 | 1-130-309-00 | FILM | 0.033MF | 5% | 100V | | |
| C255 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C256 | 1-124-478-11 | ELECT | 100MF | 20% | 25V | | |
| C257 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V | | |
| C258 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V | | |
| C259 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C261 | 1-131-347-00 | TANTALUM | 1MF | 20% | 16V | | |
| C262 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C263 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C264 | 1-124-907-11 | ELECT | 10MF | 20% | 50V | | |
| C265 | 1-136-170-00 | FILM | 0.27MF | 5% | 50V | | |
| C266 | 1-126-320-11 | ELECT | 10MF | 20% | 16V | | |
| C267 | 1-131-368-00 | TANTALUM | 3.3MF | 10% | 16V | | |
| C268 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C269 | 1-131-347-00 | TANTALUM | 1MF | 20% | 16V | | |
| C270 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C271 | 1-124-907-11 | ELECT | 10MF | 20% | 50V | | |
| C272 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C273 | 1-124-477-11 | ELECT | 47MF | 20% | 16V | | |
| C274 | 1-130-475-00 | MYLAR | 0.0022MF | 5% | 50V | | |
| C275 | 1-130-475-00 | MYLAR | 0.0022MF | 5% | 50V | | |
| C276 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V | | |
| C277 | 1-126-320-11 | ELECT | 10MF | 20% | 16V | | |
| C278 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C279 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C281 | 1-124-907-11 | ELECT | 10MF | 20% | 50V | | |
| C282 | 1-124-907-11 | ELECT | 10MF | 20% | 50V | | |
| C284 | 1-124-907-11 | ELECT | 10MF | 20% | 50V | | |
| C301 | 1-102-973-00 | CERAMIC | 100PF | 5% | 50V | | |
| C302 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C303 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V | | |
| C304 | 1-124-234-00 | ELECT | 22MF | 20% | 16V | | |
| C305 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C306 | 1-101-006-00 | CERAMIC | 0.047MF | | 50V | | |
| C307 | 1-102-978-00 | CERAMIC | 220PF | 5% | 50V | | |
| C308 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V | | |
| C309 | 1-102-965-00 | CERAMIC | 39PF | 5% | 50V | | |
| C310 | 1-124-234-00 | ELECT | 22MF | 20% | 16V | | |
| C311 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V | | |
| C312 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V | | |
| C313 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V | | |
| C314 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V | | |
| C315 | 1-136-157-00 | FILM | 0.022MF | 5% | 50V | | |
| C316 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V | | |
| C317 | 1-124-360-00 | ELECT | 1000MF | 20% | 16V | | |
| C318 | 1-130-471-00 | MYLAR | 0.001MF | 5% | 50V | | |
| C319 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C320 | 1-130-479-00 | MYLAR | 0.0047MF | 5% | 50V | | |
| C321 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V | | |
| C322 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V | | |
| C324 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C325 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V | | |
| C326 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C327 | 1-162-117-00 | CERAMIC | 100PF | 10% | 500V | | |
| C328 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V | | |
| C329 | 1-124-477-11 | ELECT | 47MF | 20% | 16V | | |
| C330 | 1-102-116-00 | CERAMIC | 680PF | 10% | 50V | | |
| C332 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V | | |
| C333 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V | | |
| C334 | 1-136-157-00 | FILM | 0.022MF | 5% | 50V | | |
| C335 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C336 | 1-124-907-11 | ELECT | 10MF | 20% | 50V | | |
| C337 | 1-124-798-11 | ELECT | 1MF | 20% | 160V | | |
| C338 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V | | |
| C339 | 1-124-907-11 | ELECT | 10MF | 20% | 50V | | |
| C341 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V | | |
| C342 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V | | |
| C343 | 1-124-477-11 | ELECT | 47MF | 20% | 16V | | |
| C344 | 1-124-120-11 | ELECT | 220MF | 20% | 16V | | |
| C345 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V | | |
| C346 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V | | |
| C347 | 1-126-103-11 | ELECT | 470MF | 20% | 16V | | |
| C351 | 1-101-888-00 | CERAMIC | 68PF | 5% | 50V | | |
| C352 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V | | |
| C354 | 1-126-101-11 | ELECT | 100MF | 20% | 16V | | |
| C500 | 1-130-475-00 | MYLAR | 0.0022MF | 5% | 50V | | |
| C501 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V | | |
| C502 | 1-102-244-00 | CERAMIC | 220PF | 10% | 500V | | |
| C503 | 1-102-244-00 | CERAMIC | 220PF | 10% | 500V | | |
| C504 | 1-106-383-00 | MYLAR | 0.047MF | | 200V | | |
| C505 | 1-102-030-00 | CERAMIC | 330PF | 10% | 500V | | |
| C506 | Δ 1-162-115-91 | CERAMIC | 330PF | 10% | 2KV | | |
| C507 | Δ 1-137-024-11 | FILM | 0.02MF | 3% | 2KV | | |
| C509 | Δ 1-136-313-51 | FILM | 0.047MF | 5% | 400V | | |
| C512 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V | | |
| C513 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V | | |
| C516 | 1-136-113-00 | FILM | 2MF | 5% | 200V | | |
| C517 | 1-124-634-11 | ELECT | 1MF | 20% | 250V | | |
| C518 | 1-106-395-00 | MYLAR | 0.15MF | 10% | 200V | | |
| C521 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V | | |
| C522 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V | | |
| C523 | 1-162-318-11 | CERAMIC | 0.001MF | 10% | 500V | | |
| C525 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V | | |
| C526 | 1-136-124-00 | FILM | 0.56MF | 5% | 400V | | |
| C527 | 1-162-116-00 | CERAMIC | 680PF | 10% | 2KV | | |
| C528 | 1-162-116-00 | CERAMIC | 680PF | 10% | 2KV | | |
| C529 | 1-106-359-00 | MYLAR | 0.0047MF | 10% | 200V | | |
| C536 | 1-124-907-11 | ELECT | 10MF | 20% | 50V | | |
| C538 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V | | |
| C539 | 1-124-477-11 | ELECT | 47MF | 20% | 25V | | |
| C540 | 1-124-911-11 | ELECT | 220MF | 20% | 50V | | |
| C541 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V | | |
| C542 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V | | |
| C545 | 1-123-932-00 | ELECT | 4.7MF | 20% | 160V | | |
| C546 | 1-106-216-00 | MYLAR | 0.068MF | 10% | 100V | | |

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| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|-----------------------------|----------------|----------------------------|----------|----------|----------|-------------|--------|
| C547 | 1-124-557-11 | ELECT | 1000MF | 20% | 25V | | |
| C548 | 1-162-114-00 | CERAMIC | 0.0047MF | | 2KV | | |
| C549 | 1-123-947-00 | ELECT | 10MF | 20% | 250V | | |
| C551 | Δ 1-108-433-91 | MYLAR | 0.1MF | 10% | 200V | | |
| C552 | 1-123-024-21 | ELECT | 33MF | | 160V | | |
| C553 | 1-124-557-11 | ELECT | 1000MF | 20% | 25V | | |
| C554 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V | | |
| C555 | 1-124-477-11 | ELECT | 47MF | 20% | 25V | | |
| C556 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V | | |
| C557 | 1-106-387-00 | MYLAR | 0.068MF | 10% | 200V | | |
| C558 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V | | |
| C561 | 1-124-910-11 | ELECT | 47MF | 20% | 50V | | |
| C562 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V | | |
| C563 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V | | |
| C565 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | | |
| C573 | 1-130-479-00 | MYLAR | 0.0047MF | 5% | 50V | | |
| C601 | Δ 1-136-311-51 | FILM | 0.47MF | 20% | 125V | | |
| C603 | Δ 1-162-576-51 | CERAMIC | 0.001MF | 10% | 400V | | |
| C604 | Δ 1-136-311-51 | FILM | 0.47MF | 20% | 125V | | |
| C605 | Δ 1-161-953-92 | CERAMIC | 0.0047MF | 20% | 400V | | |
| C606 | Δ 1-161-953-92 | CERAMIC | 0.0047MF | 20% | 400V | | |
| C607 | 1-125-538-11 | ELECT (BLOCK) | 1000MF | 20% | 200V | | |
| C608 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V | | |
| C609 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V | | |
| C610 | 1-124-480-11 | ELECT | 470MF | 20% | 25V | | |
| C611 | 1-124-480-11 | ELECT | 470MF | 20% | 25V | | |
| C612 | 1-124-477-11 | ELECT | 47MF | 20% | 16V | | |
| C613 | 1-124-478-11 | ELECT | 100MF | 20% | 25V | | |
| C614 | 1-124-907-11 | ELECT | 10MF | 20% | 50V | | |
| C620 | 1-124-478-11 | ELECT | 100MF | 20% | 25V | | |
| C621 | 1-126-101-11 | ELECT | 100MF | 20% | 16V | | |
| C622 | 1-126-101-11 | ELECT | 100MF | 20% | 16V | | |
| C623 | 1-126-101-11 | ELECT | 100MF | 20% | 16V | | |
| C625 | 1-124-907-11 | ELECT | 10MF | 20% | 50V | | |
| C626 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V | | |
| C627 | 1-124-477-11 | ELECT | 47MF | 20% | 16V | | |
| <COMPOSITION CIRCUIT BLOCK> | | | | | | | |
| CP101 | 1-236-294-11 | NETWORK, RES | | | | | |
| CP102 | 1-236-491-11 | NETWORK, RES, THICK FILM | | | | | |
| CP103 | 1-236-358-21 | NETWORK, RES | | | | | |
| CP104 | 1-236-479-11 | NETWORK, C | | | | | |
| CP106 | 1-236-301-11 | NETWORK, C | | | | | |
| CP107 | 1-236-491-11 | NETWORK, RES, THICK FILM | | | | | |
| CP108 | 1-236-301-11 | NETWORK, C | | | | | |
| CP109 | 1-236-776-11 | NETWORK, RES | | | | | |
| CP110 | 1-232-680-11 | COMPOSITION CIRCUIT BLOCK | | | | | |
| CP301 | 1-236-730-11 | NETWORK, C | | | | | |
| <DIODE> | | | | | | | |
| D103 | 8-719-974-81 | DIODE 1SV113 | | | | | |
| D104 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D105 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D106 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D107 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D108 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D109 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D250 | 8-719-109-93 | DIODE RD6.2ES-B2 | | | | | |
| D251 | 8-719-109-93 | DIODE RD6.2ES-B2 | | | | | |
| D252 | 8-719-110-31 | DIODE RD12ES-B2 | | | | | |
| D300 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D301 | 8-719-109-89 | DIODE RD5.6ES-B2 | | | | | |
| D302 | 8-719-109-89 | DIODE RD5.6ES-B2 | | | | | |
| D303 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D304 | 8-719-110-13 | DIODE RD9.1ES-B2 | | | | | |
| D305 | 8-719-110-48 | DIODE RD18ES-B1 | | | | | |
| D306 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D307 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D308 | 8-719-110-49 | DIODE RD18ES-B2 | | | | | |
| D310 | 8-719-109-93 | DIODE RD6.2ES-B2 | | | | | |
| D311 | 8-719-109-93 | DIODE RD6.2ES-B2 | | | | | |
| D500 | 8-719-911-55 | DIODE U05G | | | | | |
| D501 | 8-719-312-71 | DIODE RS3FS | | | | | |
| D502 | 8-719-911-55 | DIODE U05G | | | | | |
| D503 | 8-719-312-72 | DIODE RU30A | | | | | |
| D504 | 8-719-911-55 | DIODE U05G | | | | | |
| D505 | 8-719-911-55 | DIODE U05G | | | | | |
| D506 | 8-719-312-71 | DIODE RS3FS | | | | | |
| D507 | 8-719-109-93 | DIODE RD6.2ES-B2 | | | | | |
| D509 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D510 | 8-719-911-55 | DIODE U05G | | | | | |
| D514 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D515 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D517 | 8-719-976-64 | DIODE RGP02-17 | | | | | |
| D519 | 8-719-300-33 | DIODE RU-3AM | | | | | |
| D520 | 8-719-979-85 | DIODE EGP20G | | | | | |
| D521 | 8-719-979-85 | DIODE RGP20G | | | | | |
| D531 | 8-719-302-43 | DIODE EL1Z | | | | | |
| D540 | 8-719-110-61 | DIODE RD24ES-B1 | | | | | |
| D563 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D601 | Δ 8-719-305-07 | DIODE RBV-406H | | | | | |
| D602 | 8-719-511-40 | DIODE S1VB40 | | | | | |
| D603 | 8-719-911-55 | DIODE U05G | | | | | |
| D604 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D606 | 8-719-110-78 | DIODE RD33ES-B2 | | | | | |
| <FUSE> | | | | | | | |
| F601 | Δ 1-532-748-11 | FUSE, GLASS TUBE 6.3A/125V | | | | | |
| | 1-533-223-11 | CLIP, FUSE; F601 | | | | | |
| <IC> | | | | | | | |
| IC101 | 8-759-635-34 | IC M37100M8-115SP | | | | | |
| IC102 | 8-759-972-43 | IC PCD8582 | | | | | |
| IC103 | 8-759-403-44 | IC MN1280-S | | | | | |
| IC104 | 8-759-978-66 | IC MB88201-638L | | | | | |
| IC251 | 8-752-037-24 | IC CXA1264AS | | | | | |
| IC301 | 8-752-035-52 | IC CXA1313S | | | | | |
| IC500 | 8-759-980-58 | IC TDA8172 | | | | | |
| IC531 | 8-759-945-58 | IC RC4558P | | | | | |
| IC601 | 8-759-112-06 | IC UPC78N05H | | | | | |
| IC603 | Δ 8-759-142-04 | IC UPC7893HF | | | | | |
| IC604 | Δ 8-759-112-06 | IC UPC78N05H | | | | | |
| <IF BLOCK> | | | | | | | |
| IF201 | 1-464-755-21 | IF BLOCK (IFE-450A) | | | | | |
| <COIL> | | | | | | | |
| L101 | 1-410-470-11 | INDUCTOR | 10UH | | | | |
| L102 | 1-408-408-00 | INDUCTOR | 8.2UH | | | | |
| L103 | 1-410-669-31 | INDUCTOR | 33UH | | | | |
| L104 | 1-408-413-00 | INDUCTOR | 22UH | | | | |
| L301 | 1-408-409-00 | INDUCTOR | 10UH | | | | |



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

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

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|--------------|-----------------------|--------------------------------|--------|
| L501 | 1-422-613-11 | COIL, AIR CORE | |
| L503 | 1-422-613-11 | COIL, AIR CORE | |
| L505 | 1-408-237-00 | INDUCTOR 3.3MMH | |
| L506 | 1-459-104-00 | COIL, DUST CORE | |
| L509 | 1-410-669-31 | INDUCTOR 33UH | |
| L510 | Δ 1-408-698-21 | INDUCTOR 8.2UH | |
| L511 | 1-408-225-00 | INDUCTOR 3.3UH | |
| L512 | 1-408-225-00 | INDUCTOR 3.3UH | |
| L513 | 1-408-698-00 | INDUCTOR 8.2UH | |
| L514 | 1-408-698-00 | INDUCTOR 8.2UH | |
| L515 | Δ 1-459-224-13 | HLC | |
| L517 | 1-459-075-00 | COIL, DYNAMIC CONVERSION CHOKE | |
| <MODULE> | | | |
| PM501 | Δ 1-808-968-11 | MODULE, PROTECTOR (PM-20) | |
| <TRANSISTOR> | | | |
| Q101 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q102 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q103 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q105 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q106 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q107 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q108 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q130 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q202 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q203 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q301 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q302 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q303 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q304 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q305 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q306 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q307 | 8-729-967-32 | TRANSISTOR 2SC2673-Q | |
| Q308 | 8-729-993-72 | TRANSISTOR 2SA937-Q | |
| Q309 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q310 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q311 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q312 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q313 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q314 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q315 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q316 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q317 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q318 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q501 | 8-729-119-80 | TRANSISTOR 2SC2688-LK | |
| Q502 | 8-729-822-65 | TRANSISTOR 2SD1886CA | |
| Q504 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q505 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q530 | 8-729-202-03 | TRANSISTOR 2SD1408-Y | |
| Q601 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q607 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q608 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| <RESISTOR> | | | |
| R101 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R102 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R103 | 1-249-409-11 | CARBON 220 5% 1/4W | |
| R104 | 1-249-409-11 | CARBON 220 5% 1/4W | |
| R105 | 1-249-409-11 | CARBON 220 5% 1/4W | |

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|------------------------|--------|
| R106 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R107 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R108 | 1-249-437-11 | CARBON 47K 5% 1/4W | |
| R109 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R110 | 1-247-903-00 | CARBON 1M 5% 1/4W | |
| R113 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R114 | 1-249-435-11 | CARBON 33K 5% 1/4W | |
| R115 | 1-249-435-11 | CARBON 33K 5% 1/4W | |
| R116 | 1-249-411-11 | CARBON 330 5% 1/4W | |
| R119 | 1-249-437-11 | CARBON 47K 5% 1/4W | |
| R120 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R121 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R122 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R123 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R124 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R125 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R126 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R127 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| R128 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R129 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R130 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R131 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R132 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R133 | 1-249-409-11 | CARBON 220 5% 1/4W | |
| R134 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R135 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R136 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R137 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R138 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R139 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R140 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R141 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R142 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R143 | 1-249-413-11 | CARBON 470 5% 1/4W | |
| R144 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R145 | 1-249-422-11 | CARBON 2.7K 5% 1/4W | |
| R146 | 1-249-422-11 | CARBON 2.7K 5% 1/4W | |
| R147 | 1-249-422-11 | CARBON 2.7K 5% 1/4W | |
| R148 | 1-249-437-11 | CARBON 47K 5% 1/4W | |
| R149 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R150 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R151 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R152 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R153 | 1-249-424-11 | CARBON 3.9K 5% 1/4W | |
| R154 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R155 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R156 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R157 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R158 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R159 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R161 | 1-215-892-11 | METAL OXIDE 1K 5% 2W F | |
| R162 | 1-249-401-11 | CARBON 47 5% 1/4W | |
| R163 | 1-249-410-11 | CARBON 270 5% 1/4W | |
| R164 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R165 | 1-249-437-11 | CARBON 47K 5% 1/4W | |
| R166 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R167 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R168 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R169 | 1-249-409-11 | CARBON 220 5% 1/4W | |
| R170 | 1-249-409-11 | CARBON 220 5% 1/4W | |
| R171 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R172 | 1-249-409-11 | CARBON 220 5% 1/4W | |
| R173 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R174 | 1-249-409-11 | CARBON 220 5% 1/4W | |



| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|-------------|--------------|----------|--------------|-------------|--------------|
| R175 | 1-249-409-11 | CARBON | 220 5% 1/4W | R321 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R176 | 1-249-429-11 | CARBON | 10K 5% 1/4W | R322 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R177 | 1-249-429-11 | CARBON | 10K 5% 1/4W | R323 | 1-249-441-11 | CARBON | 100K 5% 1/4W |
| R178 | 1-249-429-11 | CARBON | 10K 5% 1/4W | R324 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R179 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | R325 | 1-249-441-11 | CARBON | 100K 5% 1/4W |
| R180 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | R326 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R181 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | R327 | 1-249-441-11 | CARBON | 100K 5% 1/4W |
| R182 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | R328 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R183 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | R329 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R184 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | R330 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R185 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | R331 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R186 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | R332 | 1-249-436-11 | CARBON | 39K 5% 1/4W |
| R187 | 1-249-417-11 | CARBON | 1K 5% 1/4W | R333 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R188 | 1-249-417-11 | CARBON | 1K 5% 1/4W | R334 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R189 | 1-249-417-11 | CARBON | 1K 5% 1/4W | R335 | 1-249-418-11 | CARBON | 1.2K 5% 1/4W |
| R190 | 1-249-417-11 | CARBON | 1K 5% 1/4W | R336 | 1-247-903-00 | CARBON | 1M 5% 1/4W |
| R191 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | R337 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R192 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | R338 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R193 | 1-249-429-11 | CARBON | 10K 5% 1/4W | R339 | 1-249-415-11 | CARBON | 680 5% 1/4W |
| R194 | 1-249-429-11 | CARBON | 10K 5% 1/4W | R341 | 1-215-457-00 | METAL | 33K 1% 1/4W |
| R195 | 1-249-437-11 | CARBON | 47K 5% 1/4W | R343 | 1-249-428-11 | CARBON | 8.2K 5% 1/4W |
| R197 | 1-247-903-00 | CARBON | 1M 5% 1/4W | R344 | 1-249-441-11 | CARBON | 100K 5% 1/4W |
| R198 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | R345 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R251 | 1-249-409-11 | CARBON | 220 5% 1/4W | R346 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W |
| R252 | 1-249-409-11 | CARBON | 220 5% 1/4W | R347 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R253 | 1-249-409-11 | CARBON | 220 5% 1/4W | R348 | 1-249-411-11 | CARBON | 330 5% 1/4W |
| R254 | 1-249-409-11 | CARBON | 220 5% 1/4W | R349 | 1-259-883-11 | CARBON | 3.9M 5% 1/4W |
| R255 | 1-249-420-11 | CARBON | 1.8K 5% 1/4W | R350 | 1-249-438-11 | CARBON | 56K 5% 1/4W |
| R256 | 1-249-405-11 | CARBON | 100 5% 1/4W | R351 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R257 | 1-249-409-11 | CARBON | 220 5% 1/4W | R352 | 1-249-430-11 | CARBON | 12K 5% 1/4W |
| R258 | 1-249-409-11 | CARBON | 220 5% 1/4W | R353 | 1-249-441-11 | CARBON | 100K 5% 1/4W |
| R259 | 1-249-409-11 | CARBON | 220 5% 1/4W | R354 | 1-247-883-00 | CARBON | 150K 5% 1/4W |
| R260 | 1-249-409-11 | CARBON | 220 5% 1/4W | R356 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R261 | 1-249-441-11 | CARBON | 100K 5% 1/4W | R357 | 1-249-437-11 | CARBON | 47K 5% 1/4W |
| R262 | 1-249-441-11 | CARBON | 100K 5% 1/4W | R358 | 1-249-437-11 | CARBON | 47K 5% 1/4W |
| R263 | 1-249-429-11 | CARBON | 10K 5% 1/4W | R359 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R264 | 1-249-441-11 | CARBON | 100K 5% 1/4W | R360 | 1-249-413-11 | CARBON | 470 5% 1/4W |
| R265 | 1-249-441-11 | CARBON | 100K 5% 1/4W | R361 | 1-249-419-11 | CARBON | 1.5K 5% 1/4W |
| R266 | 1-215-456-00 | METAL | 30K 1% 1/4W | R362 | 1-249-409-11 | CARBON | 220 5% 1/4W |
| R267 | 1-249-429-11 | CARBON | 10K 5% 1/4W | R363 | 1-249-409-11 | CARBON | 220 5% 1/4W |
| R268 | 1-215-865-11 | METAL OXIDE | 220 5% 1W F | R364 | 1-249-409-11 | CARBON | 220 5% 1/4W |
| R269 | 1-249-431-11 | CARBON | 15K 5% 1/4W | R365 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R270 | 1-249-431-11 | CARBON | 15K 5% 1/4W | R366 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R300 | 1-249-417-11 | CARBON | 1K 5% 1/4W | R367 | 1-247-891-00 | CARBON | 330K 5% 1/4W |
| R301 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | R368 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R302 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | R370 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R303 | 1-249-413-11 | CARBON | 470 5% 1/4W | R371 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R304 | 1-259-883-11 | CARBON | 3.9M 5% 1/4W | R372 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R305 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W | R373 | 1-249-437-11 | CARBON | 47K 5% 1/4W |
| R306 | 1-249-429-11 | CARBON | 10K 5% 1/4W | R374 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R307 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W | R375 | 1-249-418-11 | CARBON | 1.2K 5% 1/4W |
| R308 | 1-249-433-11 | CARBON | 22K 5% 1/4W | R376 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R309 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | R377 | 1-249-416-11 | CARBON | 820 5% 1/4W |
| R310 | 1-249-417-11 | CARBON | 1K 5% 1/4W | R378 | 1-249-409-11 | CARBON | 220 5% 1/4W |
| R311 | 1-215-448-00 | METAL | 13K 1% 1/4W | R379 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W |
| R312 | 1-249-432-11 | CARBON | 18K 5% 1/4W | R380 | 1-249-420-11 | CARBON | 1.8K 5% 1/4W |
| R313 | 1-215-421-00 | METAL | 1K 1% 1/4W | R381 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R314 | 1-247-899-11 | CARBON | 680K 5% 1/4W | R382 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R315 | 1-249-405-11 | CARBON | 100 5% 1/4W | R383 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W |
| R316 | 1-249-405-11 | CARBON | 100 5% 1/4W | R384 | 1-249-410-11 | CARBON | 270 5% 1/4W |
| R317 | 1-249-405-11 | CARBON | 100 5% 1/4W | R385 | 1-249-433-11 | CARBON | 22K 5% 1/4W |
| R318 | 1-249-405-11 | CARBON | 100 5% 1/4W | R386 | 1-249-412-11 | CARBON | 390 5% 1/4W |
| R319 | 1-249-405-11 | CARBON | 100 5% 1/4W | R387 | 1-249-415-11 | CARBON | 680 5% 1/4W |
| R320 | 1-249-405-11 | CARBON | 100 5% 1/4W | | | | |

A G

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

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

| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|-------------|----------------|----------|--------------|-------------------------------------|----------------|
| R388 | 1-249-416-11 | CARBON | 820 5% 1/4W | R604 | 1-216-425-11 | METAL OXIDE | 56 5% 1W F |
| R389 | 1-249-427-11 | CARBON | 6.8K 5% 1/4W | R605 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R390 | 1-249-437-11 | CARBON | 47K 5% 1/4W | R619 | 1-215-896-00 | METAL OXIDE | 4.7K 5% 2W F |
| R391 | 1-249-429-11 | CARBON | 10K 5% 1/4W | R620 | 1-215-896-00 | METAL OXIDE | 4.7K 5% 2W F |
| R392 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | R621 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R393 | 1-249-437-11 | CARBON | 47K 5% 1/4W | R623 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W |
| R394 | 1-249-437-11 | CARBON | 47K 5% 1/4W | R625 Δ | 1-216-395-51 | METAL OXIDE | 3.3 5% 3W F |
| R395 | 1-249-409-11 | CARBON | 220 5% 1/4W | R626 | 1-249-443-11 | CARBON | 0.47 5% 1/4W F |
| R396 | 1-249-409-11 | CARBON | 220 5% 1/4W | R627 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W |
| R500 | 1-249-433-11 | CARBON | 22K 5% 1/4W | R628 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W |
| R502 | 1-215-893-11 | METAL OXIDE | 1.5K 5% 2W F | R629 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R503 | 1-215-893-11 | METAL OXIDE | 1.5K 5% 2W F | R1017 | 1-249-431-11 | CARBON | 15K 5% 1/4W |
| R504 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W | R1101 | 1-249-441-11 | CARBON | 100K 5% 1/4W |
| R505 | 1-247-722-11 | CARBON | 5.6K 5% 1/4W | R1102 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R506 | 1-216-345-11 | METAL OXIDE | 0.47 5% 1W F | R1103 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R507 | 1-249-401-11 | CARBON | 47 5% 1/4W | R1104 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R510 | 1-247-696-11 | CARBON | 47 5% 1/4W F | R1105 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R511 | 1-247-891-00 | CARBON | 330K 5% 1/4W | R1106 | 1-249-440-11 | CARBON | 82K 5% 1/4W |
| R512 | 1-215-884-11 | METAL OXIDE | 47 5% 2W F | R1107 | 1-249-441-11 | CARBON | 100K 5% 1/4W |
| R513 | 1-215-886-11 | METAL OXIDE | 100 5% 2W F | R1108 | 1-249-435-11 | CARBON | 33K 5% 1/4W |
| R514 | 1-249-433-11 | CARBON | 22K 5% 1/4W | R1109 | 1-249-434-11 | CARBON | 27K 5% 1/4W |
| R515 | 1-216-376-00 | METAL OXIDE | 3.9 5% 2W F | R1110 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W |
| R516 | 1-249-426-11 | CARBON | 5.6K 5% 1/4W | R1111 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R517 | 1-249-429-11 | CARBON | 10K 5% 1/4W | R1117 | 1-249-437-11 | CARBON | 47K 5% 1/4W |
| R518 | 1-249-417-11 | CARBON | 1K 5% 1/4W | R1118 | 1-249-437-11 | CARBON | 47K 5% 1/4W |
| R519 | 1-216-376-00 | METAL OXIDE | 3.9 5% 2W F | R1119 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R521 | 1-249-441-11 | CARBON | 100K 5% 1/4W | | | <RELAY> | |
| R522 | 1-247-885-00 | CARBON | 180K 5% 1/4W | RY601 Δ | 1-515-720-41 | RELAY | |
| R523 | 1-215-886-11 | METAL OXIDE | 100 5% 2W F | | | <SPARK GAP> | |
| R530 | 1-247-711-11 | CARBON | 680 5% 1/4W F | SG501 | 1-519-422-11 | GAP, SPARK | |
| R533 | 1-215-880-00 | METAL OXIDE | 10 5% 2W F | | | <TRANSFORMER> | |
| R534 | 1-249-439-11 | CARBON | 68K 5% 1/4W | T500 Δ | 1-439-416-41 | TRANSFORMER ASSY, FLYBACK (NX-1604) | |
| R536 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | T501 Δ | 1-437-195-13 | TRANSFORMER, HORIZONTAL DRIVE | |
| R540 | 1-216-369-00 | METAL OXIDE | 1 5% 2W F | T502 Δ | 1-421-794-11 | TRANSFORMER, FERRITE (PMT) | |
| R541 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | T601 Δ | 1-424-220-21 | TRANSFORMER, LINE FILTER | |
| R542 | 1-249-431-11 | CARBON | 15K 5% 1/4W | T602 Δ | 1-424-205-21 | TRANSFORMER, LINE FILTER | |
| R544 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | T604 Δ | 1-448-916-11 | TRANSFORMER, POWER | |
| R545 | 1-249-436-11 | CARBON | 39K 5% 1/4W | | | <TUNER> | |
| R546 | 1-215-446-00 | METAL | 11K 1% 1/4W | TU101 Δ | 1-465-384-11 | TUNER, ET (BTP-202) | |
| R547 | 1-249-405-11 | CARBON | 100 5% 1/4W | | | <CRYSTAL> | |
| R551 | 1-215-459-00 | METAL | 39K 1% 1/4W | X101 | 1-577-082-11 | VIBRATOR, CERAMIC | |
| R552 | 1-249-385-11 | CARBON | 2.2 5% 1/4W F | X301 | 1-567-505-11 | OSCILLATOR, CRYSTAL | |
| R553 | 1-249-437-11 | CARBON | 47K 5% 1/4W | | | ***** | |
| R554 | 1-216-371-00 | METAL OXIDE | 1.5 5% 2W F | | | *A-1316-100-A G BOARD, COMPLETE | |
| Δ R559 Δ | | CARBON | 1/4W | | | ***** | |
| R563 Δ | 1-216-453-91 | METAL OXIDE | 270 5% 2W F | | | *4-341-751-01 EYELET (EY607,EY608) | |
| R564 | 1-215-869-11 | METAL OXIDE | 1K 5% 1W F | | | *4-341-752-01 EYELET (EY601~EY606) | |
| R565 Δ | 1-216-379-91 | METAL OXIDE | 6.8 5% 2W F | | | <CAPACITOR> | |
| R566 | 1-249-443-11 | CARBON | 0.47 5% 1/4W F | C615 | 1-124-563-11 | ELECT | 2200MF 20% 25V |
| R567 | 1-249-377-11 | CARBON | 0.47 5% 1/4W F | | | | |
| R569 Δ | 1-216-445-91 | METAL OXIDE | 12 5% 2W F | | | | |
| Δ R570 Δ | | CARBON | 1/4W | | | | |
| R572 | 1-249-437-11 | CARBON | 47K 5% 1/4W | | | | |
| R573 | 1-247-889-00 | CARBON | 270K 5% 1/4W | | | | |
| R574 | 1-249-409-11 | CARBON | 220 5% 1/4W F | | | | |
| R583 | 1-249-429-11 | CARBON | 10K 5% 1/4W | | | | |
| R585 | 1-249-422-11 | CARBON | 2.7K 5% 1/4W | | | | |
| R591 | 1-249-455-11 | CARBON | 4.7 5% 1/4W F | | | | |
| R592 | 1-247-895-00 | CARBON | 470K 5% 1/4W | | | | |
| R593 | 1-249-441-11 | CARBON | 100K 5% 1/4W | | | | |
| R594 | 1-249-429-11 | CARBON | 10K 5% 1/4W | | | | |
| R601 Δ | 1-202-723-91 | SOLID | 2.2M 10% 1/2W | | | | |
| R602 | 1-205-983-11 | WIREWOUND | 1.2 5% 15W | | | | |
| R603 | 1-216-444-11 | METAL OXIDE | 82K 5% 1W F | | | | |

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



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

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

| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---------------|---------------|-------------------------------|-----------------|---------------|--------------|-------------------------|--------|
| *4-341-752-01 | | EYELET (EY704, EY706, EY707) | | NL701 | 1-519-154-91 | LAMP, NEON | |
| *4-379-160-01 | | COVER (REAR LID), CV | | | | | |
| *4-379-167-01 | | COVER (MAIN), CV | | | | | |
| <CONNECTOR> | | | | <TRANSISTOR> | | | |
| C1 | 1-506-348-99 | PIN, CONNECTOR 3P | | Q701 | 8-729-326-11 | TRANSISTOR 2SC2611 | |
| C32 | *1-564-510-11 | PLUG, CONNECTOR 7P | | Q702 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| C82 | *1-508-768-00 | PIN, CONNECTOR (5MM PITCH) 6P | | Q703 | 8-729-200-17 | TRANSISTOR 2SA1091-0 | |
| <CAPACITOR> | | | | Q704 | 8-729-326-11 | TRANSISTOR 2SC2611 | |
| C701 | 1-162-116-00 | CERAMIC | 680PF 10% 2KV | Q705 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| C702 | 1-136-601-11 | FILM | 0.01MF 10% 630V | Q706 | 8-729-200-17 | TRANSISTOR 2SA1091-0 | |
| C703 | 1-124-907-11 | ELECT | 10MF 20% 50V | Q707 | 8-729-200-17 | TRANSISTOR 2SA1091-0 | |
| C704 | 1-123-946-00 | ELECT | 4.7MF 20% 250V | Q708 | 8-729-326-11 | TRANSISTOR 2SC2611 | |
| C705 | 1-101-821-00 | CERAMIC | 0.0022MF 500V | Q709 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| C707 | 1-102-116-00 | CERAMIC | 680PF 10% 50V | Q710 | 8-729-255-12 | TRANSISTOR 2SC2551-0 | |
| C708 | 1-102-116-00 | CERAMIC | 680PF 10% 50V | Q711 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| C709 | 1-102-116-00 | CERAMIC | 680PF 10% 50V | Q712 | 8-729-255-12 | TRANSISTOR 2SC2551-0 | |
| C710 | 1-102-117-00 | CERAMIC | 820PF 10% 50V | Q713 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| C711 | 1-126-233-11 | ELECT | 22MF 20% 25V | Q714 | 8-729-200-17 | TRANSISTOR 2SA1091-0 | |
| C712 | 1-102-116-00 | CERAMIC | 680PF 10% 50V | Q715 | 8-729-200-17 | TRANSISTOR 2SA1091-0 | |
| C713 | 1-102-117-00 | CERAMIC | 820PF 10% 50V | Q716 | 8-729-200-17 | TRANSISTOR 2SA1091-0 | |
| C714 | 1-162-622-11 | CERAMIC | 330PF 10% 6.3KV | <RESISTOR> | | | |
| C715 | 1-102-074-00 | CERAMIC | 0.001MF 10% 50V | R701 | 1-216-391-11 | METAL OXIDE 1.5 5% 3W | F |
| C718 | 1-102-074-00 | CERAMIC | 0.001MF 10% 50V | R702 | 1-202-719-00 | SOLID 1M 10% 1/2W | |
| C720 | 1-126-233-11 | ELECT | 22MF 20% 25V | R703 | 1-202-842-11 | SOLID 220K 10% 1/2W | |
| C721 | 1-102-074-00 | CERAMIC | 0.001MF 10% 50V | R704 | 1-202-846-00 | SOLID 470K 10% 1/2W | |
| C730 | 1-102-116-00 | CERAMIC | 680PF 10% 50V | R705 | 1-202-549-00 | SOLID 100 10% 1/2W | |
| C731 | 1-102-116-00 | CERAMIC | 680PF 10% 50V | R706 | 1-202-838-00 | SOLID 100K 10% 1/2W | |
| C732 | 1-102-116-00 | CERAMIC | 680PF 10% 50V | R707 | 1-202-842-11 | SOLID 220K 10% 1/2W | |
| <DIODE> | | | | R708 | 1-202-818-00 | SOLID 1K 10% 1/2W | |
| D701 | 8-719-911-19 | DIODE 1SS119 | | R709 | 1-202-818-00 | SOLID 1K 10% 1/2W | |
| D702 | 8-719-911-19 | DIODE 1SS119 | | R710 | 1-202-818-00 | SOLID 1K 10% 1/2W | |
| D703 | 8-719-911-19 | DIODE 1SS119 | | R711 | 1-202-837-00 | SOLID 82K 10% 1/2W | |
| D704 | 8-719-911-19 | DIODE 1SS119 | | R712 | 1-202-842-11 | SOLID 220K 10% 1/2W | |
| D705 | 8-719-911-19 | DIODE 1SS119 | | R713 Δ | 1-216-486-51 | METAL OXIDE 8.2K 5% 3W | F |
| D706 | 8-719-911-19 | DIODE 1SS119 | | R714 | 1-249-409-11 | CARBON 220 5% 1/4W | |
| D707 | 8-719-911-19 | DIODE 1SS119 | | R715 | 1-202-818-00 | SOLID 1K 10% 1/2W | |
| D708 | 8-719-911-19 | DIODE 1SS119 | | R716 Δ | 1-216-486-51 | METAL OXIDE 8.2K 5% 3W | F |
| D709 | 8-719-911-19 | DIODE 1SS119 | | R717 | 1-249-409-11 | CARBON 220 5% 1/4W | |
| D710 | 8-719-901-83 | DIODE 1SS83 | | R718 | 1-249-409-11 | CARBON 220 5% 1/4W | |
| D711 | 8-719-901-83 | DIODE 1SS83 | | R720 Δ | 1-216-486-51 | METAL OXIDE 8.2K 5% 3W | F |
| D712 | 8-719-901-83 | DIODE 1SS83 | | R721 | 1-202-842-11 | SOLID 220K 10% 1/2W | |
| D713 | 8-719-901-83 | DIODE 1SS83 | | R723 | 1-249-405-11 | CARBON 100 5% 1/4W | |
| <JACK> | | | | R724 | 1-249-405-11 | CARBON 100 5% 1/4W | |
| J701 Δ | 1-540-071-13 | SOCKET, PICTURE TUBE | | R725 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| <COIL> | | | | R726 | 1-249-407-11 | CARBON 150 5% 1/4W | |
| L701 | 1-408-417-00 | INDUCTOR 47UH | | R727 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| L702 | 1-408-421-00 | INDUCTOR 100UH | | R728 | 1-249-407-11 | CARBON 150 5% 1/4W | |
| L703 | 1-408-420-00 | INDUCTOR 82UH | | R729 | 1-249-405-11 | CARBON 100 5% 1/4W | |
| L704 | 1-408-410-00 | INDUCTOR 12UH | | R730 | 1-249-407-11 | CARBON 150 5% 1/4W | |
| L705 | 1-408-411-00 | INDUCTOR 15UH | | R731 | 1-247-704-11 | CARBON 220 5% 1/4W | F |
| L706 | 1-408-421-00 | INDUCTOR 100UH | | R732 | 1-247-704-11 | CARBON 220 5% 1/4W | F |
| L707 | 1-408-411-00 | INDUCTOR 15UH | | R733 | 1-247-704-11 | CARBON 220 5% 1/4W | F |
| <NEON LAMP> | | | | R739 | 1-249-433-11 | CARBON 22K 5% 1/4W | F |
| | | | | R740 | 1-215-902-11 | METAL OXIDE 47K 5% 2W | F |
| | | | | R741 | 1-249-417-11 | CARBON 1K 5% 1/4W | F |
| | | | | R742 | 1-249-429-11 | CARBON 10K 5% 1/4W | F |
| | | | | R743 | 1-249-429-11 | CARBON 10K 5% 1/4W | F |
| | | | | R744 | 1-247-725-11 | CARBON 10K 5% 1/4W | F |
| | | | | R745 | 1-247-713-11 | CARBON 1K 5% 1/4W | F |
| | | | | R746 | 1-215-902-11 | METAL OXIDE 47K 5% 1W | F |
| | | | | R747 | 1-247-725-11 | CARBON 10K 5% 1/4W | F |

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

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

C H U2

| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---------------------|--------------------------|----------------------------|--------|--------------|--------------|-------------------------|--------|
| R749 | 1-249-437-11 | CARBON 47K 5% 1/4W | | C900 | 1-101-004-00 | CERAMIC 0.01MF 50V | |
| R750 | 1-249-409-11 | CARBON 220 5% 1/4W | | C901 | 1-126-233-11 | ELECT 22MF 20% 25V | |
| R751 | 1-249-397-11 | CARBON 22 5% 1/4W | | C902 | 1-124-907-11 | ELECT 10MF 20% 50V | |
| R752 | 1-249-397-11 | CARBON 22 5% 1/4W | | C903 | 1-124-907-11 | ELECT 10MF 20% 50V | |
| R753 | 1-249-397-11 | CARBON 22 5% 1/4W | | C904 | 1-124-907-11 | ELECT 10MF 20% 50V | |
| R757 | 1-249-416-11 | CARBON 820 5% 1/4W | | C905 | 1-124-907-11 | ELECT 10MF 20% 50V | |
| R777 | 1-249-441-11 | CARBON 100K 5% 1/4W | | C906 | 1-124-907-11 | ELECT 10MF 20% 50V | |
| <VARIABLE RESISTOR> | | | | C907 | 1-124-907-11 | ELECT 10MF 20% 50V | |
| RV701 | 1-230-641-11 | RES, ADJ, METAL GLAZE 2.2M | | C908 | 1-126-233-11 | ELECT 22MF 20% 25V | |
| RV702 | Δ 1-230-619-11 | RES, ADJ, METAL GLAZE 110M | | C909 | 1-126-233-11 | ELECT 22MF 20% 25V | |
| ***** | | | | C910 | 1-126-233-11 | ELECT 22MF 20% 25V | |
| *1-633-485-31 | H BOARD | ***** | | <DIODE> | | | |
| *4-334-315-00 | CAP, LED | | | D900 | 8-719-110-13 | DIODE RD9.1ES-B2 | |
| *4-334-322-00 | HOLDER (A), LED | | | D901 | 8-719-110-13 | DIODE RD9.1ES-B2 | |
| *4-374-987-01 | GUIDE, LIGHT | | | D902 | 8-719-110-13 | DIODE RD9.1ES-B2 | |
| *4-381-686-01 | BRACKET (B), LIGHT GUIDE | | | D903 | 8-719-110-13 | DIODE RD9.1ES-B2 | |
| <CAPACITOR> | | | | D904 | 8-719-110-13 | DIODE RD9.1ES-B2 | |
| C52 | 1-124-477-11 | ELECT 47MF 20% 16V | | D905 | 8-719-110-13 | DIODE RD9.1ES-B2 | |
| <DIODE> | | | | D906 | 8-719-110-13 | DIODE RD9.1ES-B2 | |
| D1 | 8-719-311-89 | DIODE SEL1222R-C | | D907 | 8-719-110-13 | DIODE RD9.1ES-B2 | |
| D2 | 8-719-311-89 | DIODE SEL1222R-C | | D908 | 8-719-110-13 | DIODE RD9.1ES-B2 | |
| D51 | 8-719-911-19 | DIODE 1SS119 | | D909 | 8-719-110-13 | DIODE RD9.1ES-B2 | |
| <CONNECTOR> | | | | D910 | 8-719-110-13 | DIODE RD9.1ES-B2 | |
| H11 | *1-564-525-11 | PLUG, CONNECTOR 10P | | <JACK> | | | |
| H12 | *1-564-522-11 | PLUG, CONNECTOR 7P | | J1901 | 1-565-931-11 | TERMINAL BLOCK, S 3P | |
| S1 | *1-565-513-11 | PIN, CONNECTOR 2P | | J1902 | 1-565-840-41 | PIN JACK BLOCK 5P | |
| <IC> | | | | J1904 | 1-565-838-11 | JACK BLOCK, PIN 2P | |
| IC51 | 8-741-148-33 | IC SBX1483-59 | | J1905 | 1-537-187-11 | TERMINAL, PUSH (4P) | |
| <RESISTOR> | | | | <NEON LAMP> | | | |
| R51 | 1-249-409-11 | CARBON 220 5% 1/4W | | NL901 | 1-519-108-99 | LAMP, NEON | |
| R52 | 1-249-393-11 | CARBON 10 5% 1/4W | | NL903 | 1-519-108-99 | LAMP, NEON | |
| <SWITCH> | | | | <TRANSISTOR> | | | |
| S50 | Δ 1-572-198-11 | SWITCH, KEYBOARD (POWER) | | Q900 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| S51 | 1-572-198-11 | SWITCH, KEYBOARD | | Q901 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| S52 | 1-572-198-11 | SWITCH, KEYBOARD | | <RESISTOR> | | | |
| S53 | 1-572-198-11 | SWITCH, KEYBOARD | | R900 | 1-247-804-11 | CARBON 75 5% 1/4W | |
| S54 | 1-572-198-11 | SWITCH, KEYBOARD | | R901 | 1-247-804-11 | CARBON 75 5% 1/4W | |
| S55 | 1-572-198-11 | SWITCH, KEYBOARD | | R902 | 1-249-405-11 | CARBON 100 5% 1/4W | |
| S56 | 1-572-198-11 | SWITCH, KEYBOARD | | R905 | 1-247-804-11 | CARBON 75 5% 1/4W | |
| ***** | | | | R906 | 1-247-895-00 | CARBON 470K 5% 1/4W | |
| *1-633-487-31 | U2 BOARD | ***** | | R907 | 1-247-895-00 | CARBON 470K 5% 1/4W | |
| *4-341-752-01 | EYELET (EY901~EY904) | | | R908 | 1-249-405-11 | CARBON 100 5% 1/4W | |
| <CAPACITOR> | | | | R911 | 1-247-804-11 | CARBON 75 5% 1/4W | |
| | | | | R912 | 1-247-895-00 | CARBON 470K 5% 1/4W | |
| | | | | R913 | 1-247-895-00 | CARBON 470K 5% 1/4W | |
| | | | | R914 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| | | | | R915 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| | | | | R916 | 1-247-895-00 | CARBON 470K 5% 1/4W | |
| | | | | R917 | 1-247-895-00 | CARBON 470K 5% 1/4W | |
| | | | | R918 | 1-249-405-11 | CARBON 100 5% 1/4W | |
| | | | | R919 | 1-249-405-11 | CARBON 100 5% 1/4W | |

U2 **U1**

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------------|----------------------|-------------------------------|----------------|
| <SWITCH> | | | |
| SW900 | 1-572-198-11 | SWITCH, KEYBOARD (SERVICE SW) | |
| <CONNECTOR> | | | |
| U2-1 | *1-565-491-11 | CONNECTOR, BOARD TO BOARD 15P | |
| U2-2 | *1-565-491-11 | CONNECTOR, BOARD TO BOARD 15P | |
| U2-5 | *1-560-123-00 | PLUG, CONNECTOR (2.5MM) 3P | |
| ***** | | | |
| *A-1394-219-A | U1 BOARD, COMPLETE | | |
| ***** | | | |
| *4-341-752-01 | EYELET (EY401-EY403) | | |
| <CAPACITOR> | | | |
| C400 | 1-126-233-11 | ELECT | 22MF 20% 25V |
| C401 | 1-124-477-11 | ELECT | 47MF 20% 16V |
| C402 | 1-101-004-00 | CERAMIC | 0.01MF 50V |
| C403 | 1-101-004-00 | CERAMIC | 0.01MF 50V |
| C404 | 1-102-973-00 | CERAMIC | 100PF 5% 50V |
| C405 | 1-124-477-11 | ELECT | 47MF 20% 16V |
| C406 | 1-126-233-11 | ELECT | 22MF 20% 25V |
| C407 | 1-126-233-11 | ELECT | 22MF 20% 25V |
| C408 | 1-124-478-11 | ELECT | 100MF 20% 25V |
| C409 | 1-126-233-11 | ELECT | 22MF 20% 25V |
| C412 | 1-124-477-11 | ELECT | 47MF 20% 16V |
| C413 | 1-124-478-11 | ELECT | 100MF 20% 25V |
| C414 | 1-126-233-11 | ELECT | 22MF 20% 25V |
| C415 | 1-126-233-11 | ELECT | 22MF 20% 25V |
| C416 | 1-126-233-11 | ELECT | 22MF 20% 25V |
| C417 | 1-126-233-11 | ELECT | 22MF 20% 25V |
| C418 | 1-124-478-11 | ELECT | 100MF 20% 25V |
| C419 | 1-101-004-00 | CERAMIC | 0.01MF 50V |
| C420 | 1-126-233-11 | ELECT | 22MF 20% 25V |
| C421 | 1-124-478-11 | ELECT | 100MF 20% 25V |
| C422 | 1-101-004-00 | CERAMIC | 0.01MF 50V |
| C426 | 1-126-233-11 | ELECT | 22MF 20% 25V |
| C460 | 1-126-320-11 | ELECT | 10MF 20% 16V |
| C461 | 1-126-233-11 | ELECT | 22MF 20% 25V |
| C462 | 1-124-120-11 | ELECT | 220MF 20% 25V |
| C463 | 1-126-320-11 | ELECT | 10MF 20% 16V |
| C464 | 1-124-563-11 | ELECT | 2200MF 20% 25V |
| C465 | 1-106-220-00 | MYLAR | 0.1MF 10% 100V |
| C466 | 1-124-563-11 | ELECT | 2200MF 20% 25V |
| C467 | 1-106-220-00 | MYLAR | 0.1MF 10% 100V |
| C468 | 1-136-173-00 | FILM | 0.47MF 5% 50V |
| C469 | 1-124-563-11 | ELECT | 2200MF 20% 25V |
| C471 | 1-126-233-11 | ELECT | 22MF 20% 25V |
| C472 | 1-124-120-11 | ELECT | 220MF 20% 25V |
| C475 | 1-124-925-11 | ELECT | 2.2MF 20% 50V |
| <FILTER BLOCK> | | | |
| CM1301 | 1-466-162-31 | BLOCK, COM FILTER (CFB-4) | |
| <DIODE> | | | |
| D407 | 8-719-110-17 | DIODE RD10ES-B2 | |
| D408 | 8-719-109-89 | DIODE RD5.6ES-B2 | |
| D409 | 8-719-109-89 | DIODE RD5.6ES-B2 | |
| D420 | 8-719-911-19 | DIODE 1SS119 | |

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|--------------|--------------|-------------------------|--------|
| D421 | 8-719-911-19 | DIODE 1SS119 | |
| <IC> | | | |
| IC402 | 8-759-710-68 | IC NJM2245S | |
| IC403 | 8-759-710-68 | IC NJM2245S | |
| IC405 | 8-759-980-43 | IC TDA2009A | |
| IC444 | 8-752-053-17 | IC CXA1114P | |
| <COIL> | | | |
| L400 | 1-410-473-11 | INDUCTOR 18UH | |
| <TRANSISTOR> | | | |
| Q400 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q401 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q402 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q403 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q404 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q405 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q406 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q407 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q408 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q409 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q410 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q413 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q414 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q415 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q416 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q417 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q430 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q431 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q432 | 8-729-423-37 | TRANSISTOR 2SC3311A-QRS | |
| Q433 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| <RESISTOR> | | | |
| R400 | 1-249-421-11 | CARBON 2.2K 5% | 1/4W |
| R401 | 1-249-405-11 | CARBON 100 5% | 1/4W |
| R402 | 1-249-429-11 | CARBON 10K 5% | 1/4W |
| R403 | 1-249-417-11 | CARBON 1K 5% | 1/4W |
| R404 | 1-249-405-11 | CARBON 100 5% | 1/4W |
| R405 | 1-249-429-11 | CARBON 10K 5% | 1/4W |
| R406 | 1-249-417-11 | CARBON 1K 5% | 1/4W |
| R407 | 1-249-417-11 | CARBON 1K 5% | 1/4W |
| R408 | 1-249-429-11 | CARBON 10K 5% | 1/4W |
| R409 | 1-249-405-11 | CARBON 100 5% | 1/4W |
| R410 | 1-249-417-11 | CARBON 1K 5% | 1/4W |
| R411 | 1-249-429-11 | CARBON 10K 5% | 1/4W |
| R412 | 1-249-405-11 | CARBON 100 5% | 1/4W |
| R413 | 1-249-417-11 | CARBON 1K 5% | 1/4W |
| R414 | 1-249-431-11 | CARBON 15K 5% | 1/4W |
| R415 | 1-249-429-11 | CARBON 10K 5% | 1/4W |
| R416 | 1-249-417-11 | CARBON 1K 5% | 1/4W |
| R417 | 1-249-417-11 | CARBON 1K 5% | 1/4W |
| R418 | 1-249-425-11 | CARBON 4.7K 5% | 1/4W |
| R419 | 1-249-417-11 | CARBON 1K 5% | 1/4W |
| R420 | 1-249-417-11 | CARBON 1K 5% | 1/4W |
| R421 | 1-249-431-11 | CARBON 15K 5% | 1/4W |
| R422 | 1-249-417-11 | CARBON 1K 5% | 1/4W |
| R423 | 1-249-429-11 | CARBON 10K 5% | 1/4W |
| R424 | 1-249-425-11 | CARBON 4.7K 5% | 1/4W |
| R425 | 1-249-417-11 | CARBON 1K 5% | 1/4W |

U1

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

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

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|-------------|--------------|
| R426 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R427 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R428 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R429 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R432 | 1-249-435-11 | CARBON | 33K 5% 1/4W |
| R433 | 1-249-435-11 | CARBON | 33K 5% 1/4W |
| R434 | 1-249-413-11 | CARBON | 470 5% 1/4W |
| R435 | 1-249-413-11 | CARBON | 470 5% 1/4W |
| R436 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R437 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R438 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R439 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R441 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R444 | 1-249-414-11 | CARBON | 560 5% 1/4W |
| R445 | 1-249-414-11 | CARBON | 560 5% 1/4W |
| R446 | 1-249-414-11 | CARBON | 560 5% 1/4W |
| R447 | 1-249-414-11 | CARBON | 560 5% 1/4W |
| R450 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R451 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R452 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R453 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R454 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R455 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R456 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R457 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R458 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R459 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R463 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R466 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R467 | 1-249-430-11 | CARBON | 12K 5% 1/4W |
| R468 | 1-249-430-11 | CARBON | 12K 5% 1/4W |
| R470 | 1-249-441-11 | CARBON | 100K 5% 1/4W |
| R471 | 1-247-883-00 | CARBON | 150K 5% 1/4W |
| R475 | 1-249-413-11 | CARBON | 470 5% 1/4W |
| R476 | 1-249-441-11 | CARBON | 100K 5% 1/4W |
| R477 | 1-249-435-11 | CARBON | 33K 5% 1/4W |
| R478 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R479 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R480 | 1-249-418-11 | CARBON | 1.2K 5% 1/4W |
| R481 | 1-249-398-11 | CARBON | 27 5% 1/4W |
| R482 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W |
| R483 | 1-249-381-11 | CARBON | 1 5% 1/4W |
| R484 | 1-249-418-11 | CARBON | 1.2K 5% 1/4W |
| R485 | 1-249-398-11 | CARBON | 27 5% 1/4W |
| R486 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W |
| R487 | 1-249-381-11 | CARBON | 1 5% 1/4W |
| R488 | 1-249-426-11 | CARBON | 5.6K 5% 1/4W |
| R489 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W |
| R492 | 1-249-426-11 | CARBON | 5.6K 5% 1/4W |
| R493 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W |
| R494 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R495 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W |
| R496 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W |
| R497 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R498 | 1-249-437-11 | CARBON | 47K 5% 1/4W |
| R499 | 1-249-437-11 | CARBON | 47K 5% 1/4W |
| R1400 | 1-249-435-11 | CARBON | 33K 5% 1/4W |
| R1401 | 1-249-435-11 | CARBON | 33K 5% 1/4W |
| R1402 | 1-249-435-11 | CARBON | 33K 5% 1/4W |
| R1403 | 1-249-435-11 | CARBON | 33K 5% 1/4W |
| R1406 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| R1407 | 1-249-405-11 | CARBON | 100 5% 1/4W |

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|-----------------------------------|--|--------------------------------|------------------------|
| <CONNECTOR> | | | |
| U1-1 | *1-565-506-11 | CONNECTOR, BOARD TO BOARD 15P | |
| U1-2 | *1-565-506-11 | CONNECTOR, BOARD TO BOARD 15P | |
| U1-4 | *1-564-505-11 | PLUG, CONNECTOR 2P | |
| U1-5 | *1-560-124-00 | PLUG, CONNECTOR (2.5MM PITCH) | |
| U1-22 | *1-565-494-11 | CONNECTOR, BOARD TO BOARD 18P | |
| U1-23 | *1-565-494-11 | CONNECTOR, BOARD TO BOARD 18P | |
| ***** | | | |
| MISCELLANEOUS | | | |
| ***** | | | |
| Δ.1-426-350-11 | | COIL, DEMAGNETIZATION | |
| Δ.1-451-275-31 | | DEFLECTION YOKE (Y28PFA) | |
| 1-452-032-00 | | MAGNET, DISK; 10MM φ | |
| 1-452-094-00 | | MAGNET, ROTATABLE DISK; 15MM φ | |
| 1-544-313-11 | | SPEAKER UNIT | |
| *1-556-945-21 | | CABLE, P-P | |
| 1-561-306-00 | | JACK, PIN (F) | |
| *1-565-514-11 | | SOCKET, CONNECTOR 2P | (KV-27EXR25(U/C) ONLY) |
| Δ.1-590-492-11 | | CORD, POWER (WITH CONNECTOR) | |
| V901 Δ.8-737-753-05 | | PICTURE TUBE (A68JMT50X) | |
| ***** | | | |
| ACCESSORIES AND PACKING MATERIALS | | | |
| ***** | | | |
| PART NO. | DESCRIPTION | REMARK | |
| 1-562-443-11 | CONNECTOR, ANTENNA | | |
| 3-752-976-21 | MANUAL, INSTRUCTION | | |
| 3-752-976-31 | MANUAL, INSTRUCTION (KV-27EXR25(C) ONLY) | | |
| 4-384-027-01 | BAG, PROTECTION | | |
| *4-397-920-01 | CUSHION (UPPER) (ASSY) | | |
| *4-397-921-01 | CUSHION (LOWER) (ASSY) | | |
| *4-397-922-01 | INDIVIDUAL CARTON | | |
| REMOTE COMMANDER | | | |
| 1-465-764-11 | REMOTE COMMANDER (RM-Y103) | (KV-27EXR20(U) ONLY) | |
| 1-465-765-11 | REMOTE COMMANDER (RM-Y104) | (KV-27EXR25(U/C) ONLY) | |
| 3-707-584-01 | COVER, BATTERY (FOR RM-Y103, RM-Y104) | | |

0-964-655-01

9-964-655-01

Sony Corporation
TV Group

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