

Self Diagnosis
Supported model

SERVICE MANUAL

BG-3S CHASSIS

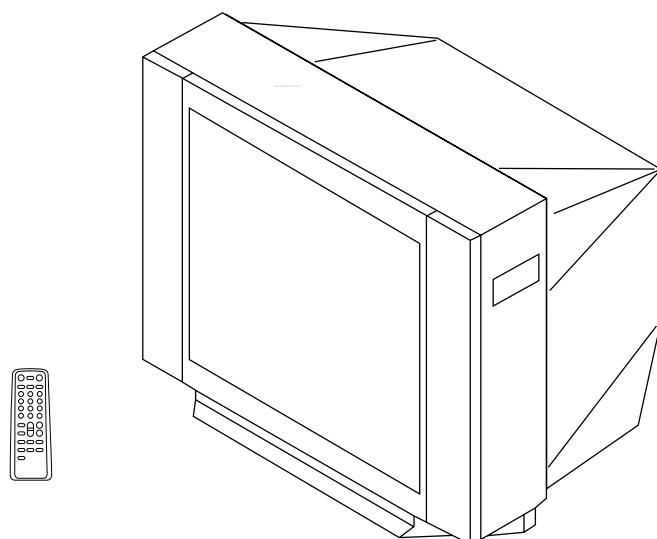
MODEL

COMMANDER DEST. CHASSIS NO.

KV-XG29M21 RM-952 New Zealand SCC-U26D-A

MODEL

COMMANDER DEST. CHASSIS NO.



TRINITRON® COLOR TV
SONY®

SPECIFICATIONS

		Note
Power requirements	220-240 V AC, 50/60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	B/G, I, D/K, M	
Color system	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58	
Teletext language	English, Arabic, French	
Channel coverage B/G	VHF : 1 to 11 UHF : 21 to 69 CATV : S01 to S03, S1 to S41	
I	UHF : B21 to B68 CATV : S01 to S03, S1 to S41	
D/K	VHF : C1 to C12, R1 to R12 UHF : C13 to C57, R21 to R60 CATV: S01 to S03, S1 to S41, Z1 to Z39	
M	VHF : A2 to A13 UHF : A14 to A79 CATV : A-8 to A-2, A to W+4, W+6 to W+84	
TER (Antenna)	75-ohm external terminal	
Audio output	5W + 5W	
Number of terminal		
 (Video)	Input: 2 Output: 1	Phono jacks; 1 Vp-p, 75 ohms
 Audio	Input: 2 Output: 1	Phono jacks; 500 mVrms
 (Headphone)	Output: 1	Minijack
Picture tube	29 inch	
Tube size (cm)	72	Measured diagonally
Screen size (cm)	68	Measured diagonally
Dimension (w/h/d, mm)	794 × 573 × 517	
Mass (kg)	48	

Design and specifications are subject to change without notice.

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.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SELF DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER lamp will automatically begin to flash.

The number of times the lamp flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER lamp flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1. DIAGNOSTIC TEST INDICATORS

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

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

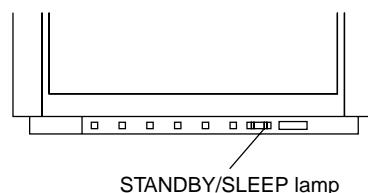
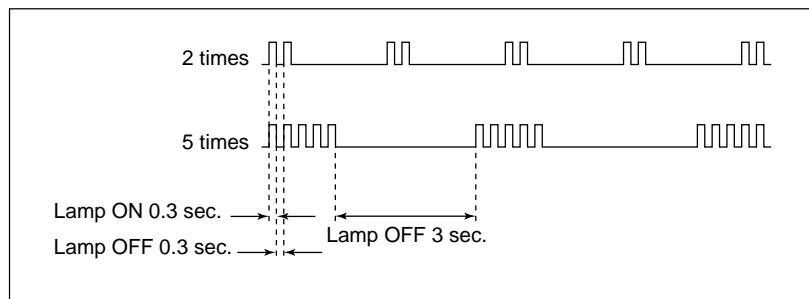
Diagnostic Item Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic display/Diagnostic result	Probable Cause Location	Detected Symptoms
• Power does not turn on	Does not light	—	<ul style="list-style-type: none"> • Power cord is not plugged in. • Fuse is burned out F8601 (B6) 	<ul style="list-style-type: none"> • Power does not come on. • No power is supplied to the TV. • AC power supply is faulty.
<ul style="list-style-type: none"> • +B overcurrent (OCP) or overvoltage (OVP) • Vertical deflection stopped • Horizontal deflection overdrive 	2 times	002:000 or 002:001~255 003:001~255 004:001~255 at the same time	<ul style="list-style-type: none"> • H.OUT Q511 is shorted. (A board) • IC1800 is shorted. (C6 board) • -13V is not supplied. (A board) • IC 503 faulty (A board) 	<ul style="list-style-type: none"> • Power does not come on. • Load on power line is shorted. • Has entered standby state after horizontal raster. • Vertical deflection pulse is stopped. • Power line is shorted or power supply is stopped.
• White balance failure (no PICTURE)	5 times	005:000 or 005:001~225	<ul style="list-style-type: none"> • G2 is improperly adjusted. (Note 2) • CRT problem. • Video OUT is faulty. (C6 board) • IC301 is faulty. (A board) • No connection A board to C6 board. 	<ul style="list-style-type: none"> • No raster is generated. • CRT cathode current detection reference pulse output is small.
• Micro reset	—	101:00 or 101:001~225	<ul style="list-style-type: none"> • Discharge CRT (C6 Board) • Static discharge • External noise 	<ul style="list-style-type: none"> • Power is shut down shortly, after this return back to normal. • Detect Micro latch up.

Note 1: If a + B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously.

The symptom that is diagnosed first by the microcontroller is displayed on the screen.

Note 2: Refer to screen (G2) Adjustment in section 3-4 of this manual.

2. DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT



Diagnostic Item	Flash Count*
+B overcurrent/overvoltage	2 times
Vertical deflection stopped	
White balance failure	5 times

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

3. STOPPING THE STANDBY/TIMER FLASH

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

4. SELF-DIAGNOSTIC SCREEN DISPLAY

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

[To Bring Up Screen Test]

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

Screen display → channel [5] → Sound volume [-] → Power ON



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

Self-Diagnosis screen display

SELF DIAGNOSTIC	
002 : 000	← Numeral "0" means that no fault has been detected.
003 : 000	
004 : 000	
005 : 001	← Numeral "1" means a fault has been detected.
101 : 000	

5. HANDLING OF SELF-DIAGNOSTIC SCREEN DISPLAY

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

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

[Clearing the result display]

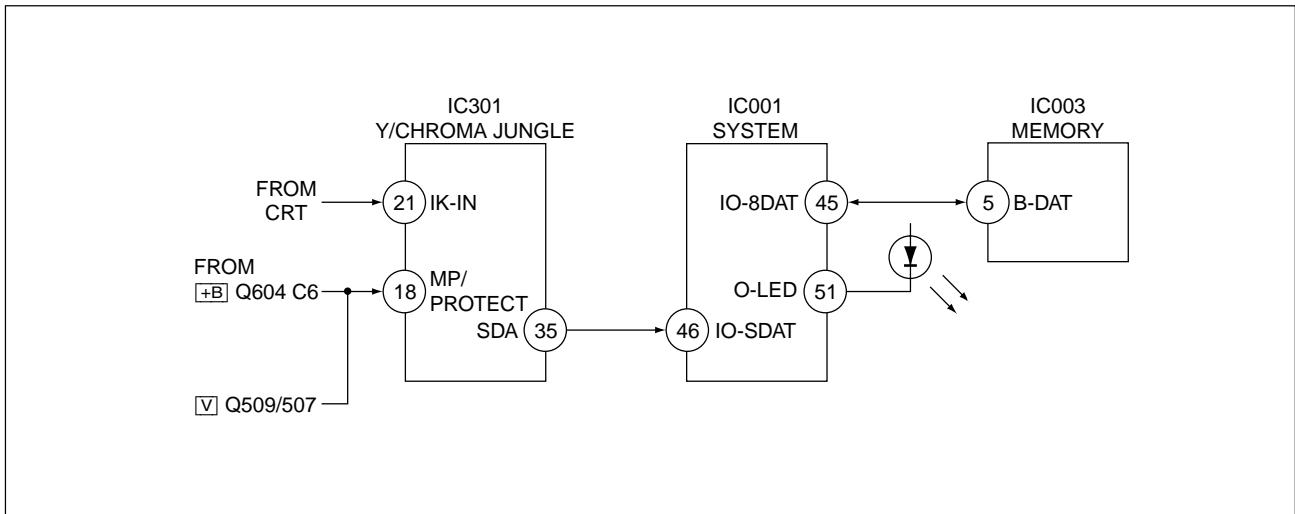
To clear the result display to "0", press buttons on the remote commander sequentially as shown below when the diagnostic screen is being displayed.

Channel [8] → 0

[Quitting Self-diagnostic screen]

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

6. SELF-DIAGNOSTIC CIRCUIT



+B overcurrent (OCP)

Occurs when an overcurrent on the +B(135) line is detected by Q604. If Q604 go to ON and the voltage to pin 18 of IC301 should go down when V.SYNC is more than seven verticals in a period, the unit will automatically turn off.

Vertical deflection stopped

Occurs when an absence of the vertical deflection pulse is detected by Q509 and IC001 shut down the power supply.

Vertical deflection overcurrent

Occurs when an overcurrent on V drive line is detected by Q507. Power supply will be shut down when detect this by IC001.

White balance failure

If the RGB levels* do not balance or become low level within 5 seconds, this error will be detected by IC301. TV will stay on, but there will be no picture.

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

SECTION 1

GENERAL

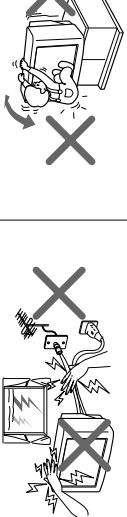
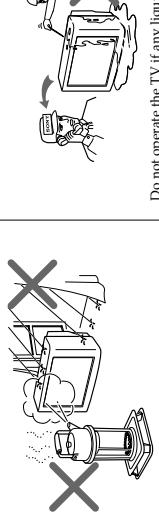
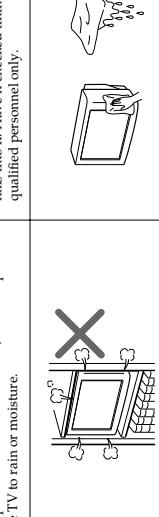
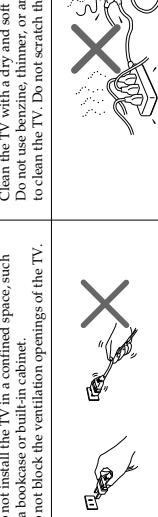
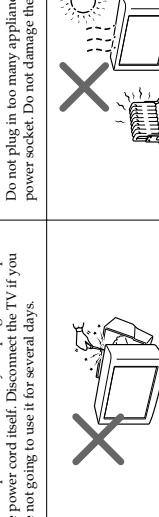
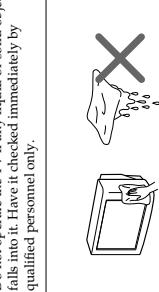
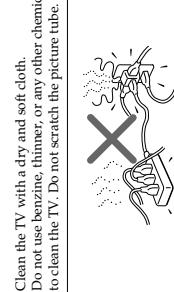
WARNING

- Dangerously high voltages are present inside the TV.
- Operate the TV only between 220 - 240 V AC.

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Getting Started

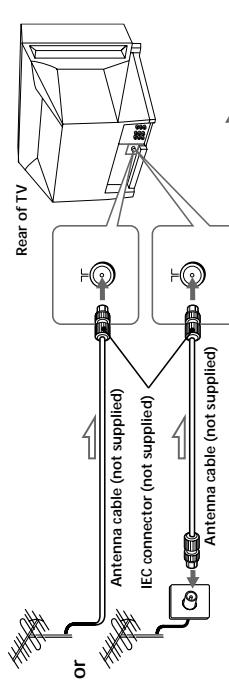
Using Your New TV

	For your own safety, do not touch any part of the TV, the power cord and the antenna cable during lightning storms.
	To prevent fire or shock hazard, do not expose the TV to rain or moisture.
	Do not install the TV in a confined space, such as a bookcase or built-in cabinet. Do not block the ventilation openings of the TV.
	Clean the TV with a dry and soft cloth. Do not use benzine, thinner, or any other chemicals to clean the TV. Do not scratch the picture tube.
	Pull the power cord out by the plug. Do not pull the power cord itself. Disconnect the TV if you are not going to use it for several days.
	Do not open the cabinet and the rear cover of the TV. Refer servicing to qualified personnel.
	Install the TV in a stable position. Do not allow children to climb onto it.
	Do not operate the TV if any liquid or solid object falls into it. Have it checked immediately by qualified personnel only.
	Do not plug in too many appliances to the same power socket. Do not damage the power cord.
	Do not install the TV in hot, humid or excessively dusty places.

Step 1

Connect the antenna

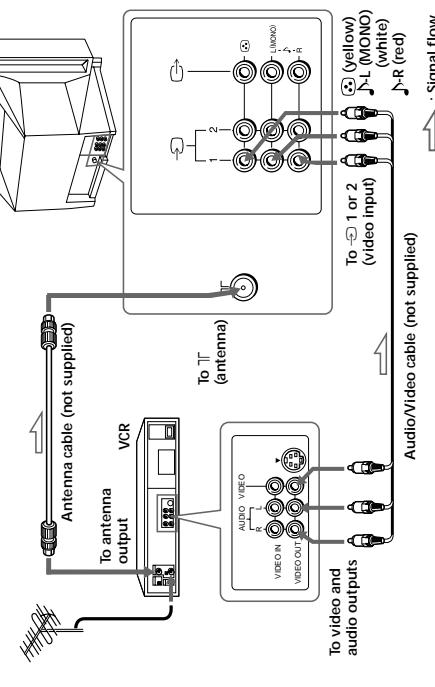
If you wish to connect a VCR, see the "Connecting a VCR" diagram below.



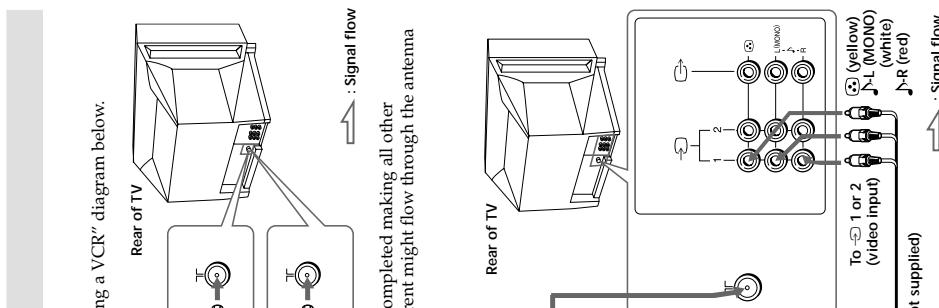
CAUTION
Do not connect the power cord until you have completed making all other connections; otherwise a minimum leakage current might flow through the antenna and other terminals to ground.

Connecting a VCR

To watch the video, press  (see page 12).



4 Using Your New TV



: Signal flow

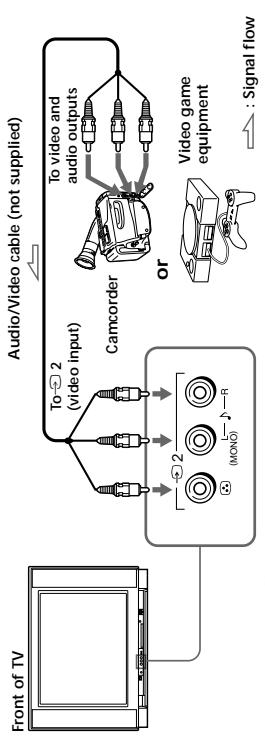
Connecting optional components

- Notes**
- If you connect a monaural VCR, connect the yellow plug to \odot (the yellow jack) and the black plug to J-L (MONO) (the white jack).
 - If you connect a VCR to the T (antenna) terminal, preset the signal output from the VCR to the program number 1 on the TV.
 - Do not connect video equipment to the $\ominus\ominus 2$ (video input) jacks at the front and the rear of your TV at the same time; otherwise the picture will not be displayed properly on the screen.
 - When no signal is input to the connected video equipment, the TV screen becomes blue.

You can connect optional audio/video components, such as a VCR, multi disc player, camcorder, video game or stereo system.

To watch the picture of the connected equipment, press $\ominus\ominus 2$ (see page 12).

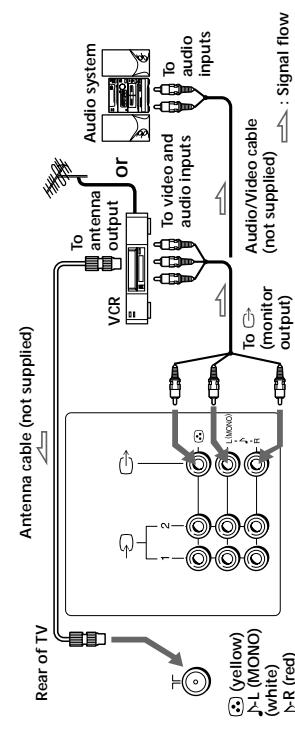
Connecting a camcorder/video game equipment using the $\ominus\ominus$ (video input) jacks



Notes

- You can also connect video equipment to the $\ominus\ominus 1$ or $\ominus\ominus 2$ (video input) jacks at the rear of your TV.
- Do not connect video equipment to the $\ominus\ominus 2$ (video input) jacks at the front and the rear of your TV at the same time; otherwise the picture will not be displayed properly on the screen.

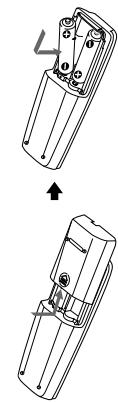
Connecting audio/video equipment using the $\ominus\ominus$ (monitor output) jacks



Notes

- When connecting a monaural VCR, connect the yellow plug to \odot (the yellow jack) and the black plug to J-L (MONO) (the white jack).

Step 2

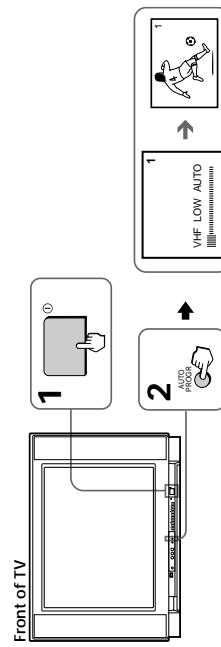


Note

- Do not use old batteries nor use different types of batteries together.

Step 3

Preset the channels automatically



Tips

- If you want to stop automatic channel presetting, press SELECT twice.
- If your TV has preset an unwanted channel or cannot preset a particular channel, then preset your TV manually (see page 9).

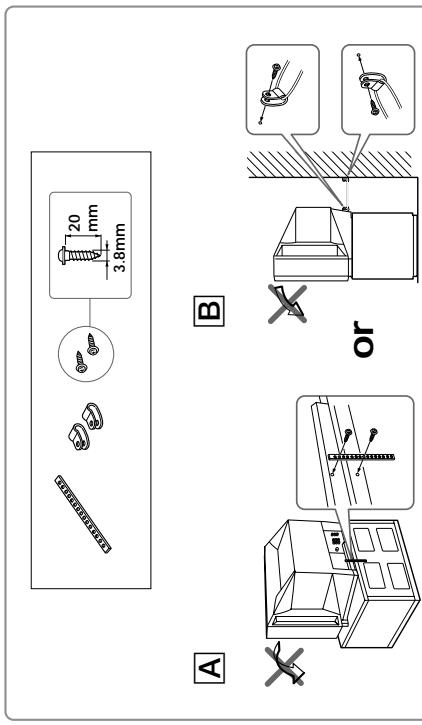
Securing the TV

To prevent the TV from falling, secure the TV using one of the following methods:

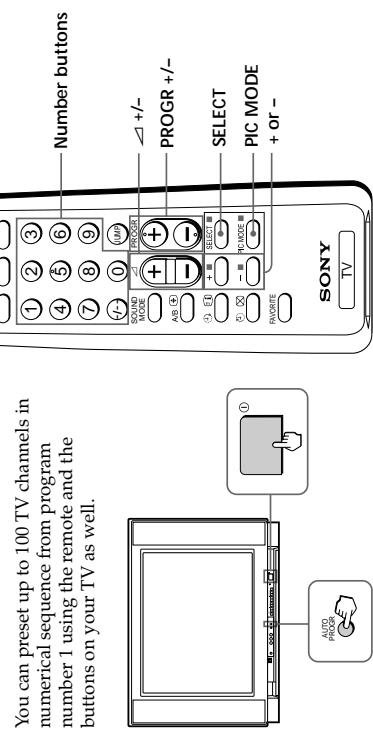
A With the supplied screws, attach the band to the TV stand and to the rear of the TV using the provided hole.

or

B Put the cord or chain through the clamps to secure the TV against a wall or pillar.



Presetting channels



You can preset up to 100 TV channels in numerical sequence from program number 1 using the remote and the buttons on your TV as well.

Presetting channels automatically

1 Press ① to turn on the TV.

2 Press AUTO PROGR.

To preset channels automatically from a specified program number

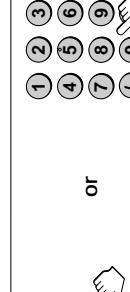
(1) Press SELECT until "AUTO PROGRAM" appears.

(2) Press + or -.

The on-screen display will start flashing.
(3) Press PROGR + / - or the number buttons until the desired program number appears.

(4) Press + or -.

Presetting channels manually

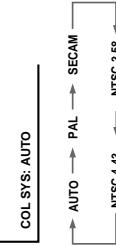
- 1** Press SELECT until "MANUAL PROGRAM" appears.
- 
- 2** Press + or -.
- 
- 3** Press PROGR +/- or the number buttons until the desired program number appears.
- 
- 4** Press + or - until the desired channel picture appears.
- 
- 5** Press SELECT.
- 

Using Your New TV

Presetting channels (continued)**To change the color system setting**

If the color is abnormal when receiving programs through the \overline{T} (antenna) terminal or the $\overline{D}\text{-}V$ (video input) jack.

- (1) Press SELECT until "COL SYS" appears.



- (2) Press + or - to select the appropriate color system until the color is optimal.

Tip

- Normally set "COL SYS" to "AUTO".

Skipping program numbers

- 1** Press PROGR +/- or the number buttons until the unused or unwanted program number appears.

- 2** Press SELECT until "MANUAL PROGRAM" appears.

- 3** Press + or -.

- 4** Press PIC MODE.

- 5** Press SELECT.

To preset the skipped program number again

Preset the channel automatically or manually.

Tip

- You can also use SELECT and \square + / - on the TV to preset channels and skip program numbers.

To use the fine tuning (FINE) function

The fine tuning (FINE) function may help to reduce the following problems:
incomplete Teletext display (KV-XG29M21 only), double images and lines moving across the TV screen.

You can use the fine tuning function as below:

- (1) Select the program number you want to adjust.
- (2) Press SELECT until "MANUAL PROGRAM" appears on the screen.
- (3) Press + or - on the remote control once.
- (4) Press \oplus to display "FINE" on the screen.
- (5) Press + or - continuously until the above problems are minimized.
- (6) Press SELECT to return to normal screen.

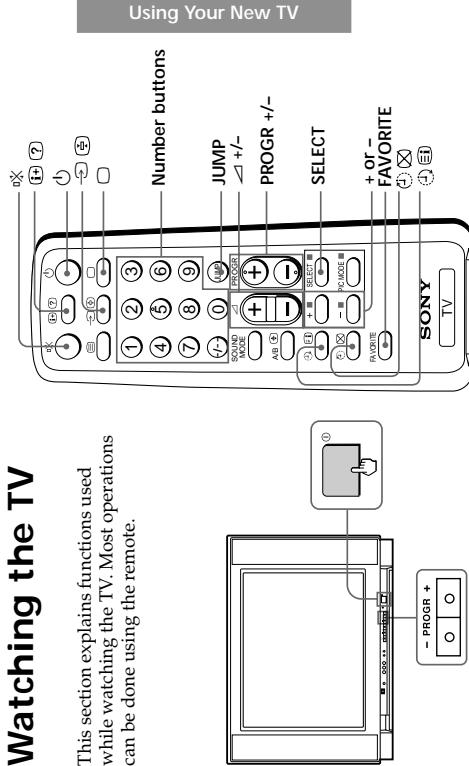
continued

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Watching the TV

This section explains functions used while watching the TV. Most operations can be done using the remote.



Watching the TV (continued)

Additional tasks

To	Do this
Turn off temporarily	Press \odot . The \odot indicator on the TV lights up red.
Turn off completely	Press \odot on the TV.
Mute the sound	Press \odot .
Watch the video input (VCR, camcorder, etc.)	Press \odot to select "VIDEO 1" or "VIDEO 2". To return to the TV program, press \odot .
Jump back to the previous channel	Press JUMP.
Display the on-screen information*	Press \odot .
Adjust the volume of each TV program automatically	Press SELECT repeatedly until "INTELLIGENT VOL" appears, then press + or - to select "ON". To cancel, select "OFF".
Adjust the picture position when it is not aligned to the TV screen	Press SELECT repeatedly until "PIC ROTATION" appears, then press + or - to adjust the alignment of the picture position.

- 1** Press \odot to turn on the TV.
When the TV is in the standby mode the \odot indicator on the TV is lit red, press \odot on the remote or PROGR +/- on the TV.

- 2** Press PROGR +/- or the number buttons to select the TV program.
For double digit numbers, press \odot , then the number (e.g., for 25, press \odot , then 2 and 5).

- 3** Press \odot +/- to adjust the volume.

Changing the on-screen display language

- 1** Press SELECT until "LANGUAGE/语言: ENGLISH" appears on the screen.



SELECT

\odot

\uparrow

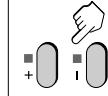
\downarrow

\leftarrow

\rightarrow

LANGUAGE/语言 : ENGLISH

- 2** Press + or - to select "中文".



+ -

\odot

\uparrow

\downarrow

\leftarrow

\rightarrow

语言 / LANGUAGE 中文

Tip

- You can also use SELECT and \odot + / - on the TV to select the on-screen display language.

continued

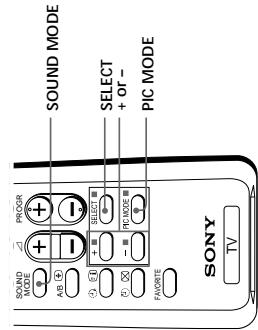
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Advanced Operations

Customizing the picture and sound



You can customize the picture and sound by selecting the picture and sound modes or by adjusting its settings.

You can change the sound effect by selecting the surround mode.

Selecting the picture and sound modes

To select the picture mode

Press PIC MODE repeatedly until you get the desired picture mode.



DYNAMIC → STANDARD → SOFT

Select To
"DYNAMIC" receive high contrast pictures.
"STANDARD" receive normal contrast pictures.
"SOFT" receive mild pictures.

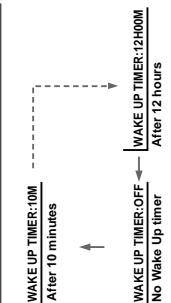
SOUND MODE
DYNAMIC → DRAMA → SOFT

Select To

"DYNAMIC" listen to dynamic and clear sound that emphasizes the low and high sound.
"DRAMA" listen to sound that emphasizes vocals and background music.
"SOFT" receive soft sound.

Setting the Wake Up timer

1 Press \odot until the desired period of time appears.
The Wake Up timer starts immediately after you have set it.



2 Select the TV program or video mode you want to display when you wake up.

3 Press \odot or set the Sleep timer if you want the TV to turn off automatically.
The \odot indicator on the TV lights up orange.

To cancel the Wake Up timer

Press \odot until "WAKE UP TIMER: OFF" appears or turn off the TV's main power.

Note

- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up timer, the TV automatically goes into the standby mode. To continue watching the TV, press any button or control on the TV or the remote.

Setting the Sleep timer

Press \odot until the desired period of time appears.
The Sleep timer starts immediately after you have set it.



2 Select the Sleep timer
Press \odot until "SLEEP TIMER: OFF" appears or turn the TV off.

"DYNAMIC" listen to dynamic and clear sound that emphasizes the low and high sound.
"DRAMA" listen to sound that emphasizes vocals and background music.
"SOFT" receive soft sound.

Adjusting the picture and sound settings

1 Press SELECT until the desired setting appears.



Each time you press SELECT, the setting item will change as follows:



2 Press + or - to adjust the item.



3 To adjust other items, repeat steps 1 to 2.

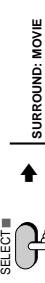
* "HUE" can be adjusted for the NTSC system only.

Notes

- When you select a picture or sound mode, the adjusted settings will be reset according to the selected mode.
- You can also use SELECT and Δ / ∇ on the TV to adjust the picture and sound settings.

Selecting the surround mode

1 Press SELECT repeatedly until "SURROUND" appears.



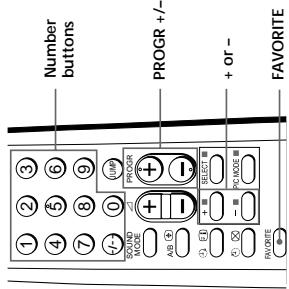
2 Press + or - to select the desired surround sound.



- | | | | |
|--------|----|------------|---|
| Select | To | 1. "MOVIE" | listen to sound that spreads out over a large area, giving the feeling of being at a movie theatre. |
| | | 2. "MUSIC" | listen to the sound that gives the feeling of being at a live concert. |
| | | 3. "OFF" | turn off the surround sound. |

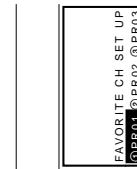
Viewing your favorite channels

You can display six of your favorite channels for quick and easy selection. You can change the favorite channel setting as well.



Selecting a favorite channel

1 Press FAVORITE.

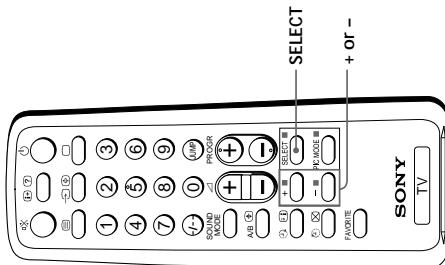


- 2** Press the number button from 1 to 6 to select the desired channel.
- When you use the "FAVORITE CH" feature for the first time, six preset channels will appear.



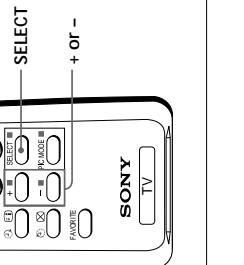
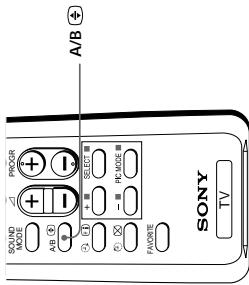
Blocking the channels (CHILD LOCK)

You can prevent a child from watching certain channels by using the buttons on the remote control.



Enjoying stereo or bilingual programs (KV-XG29M30 only)

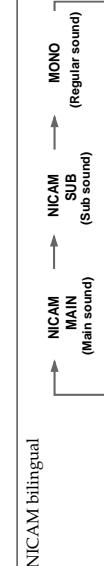
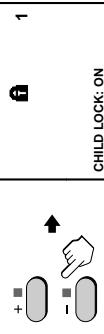
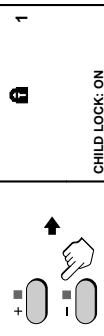
You can enjoy stereo sound or bilingual programs of NICAM and A2 (German) stereo systems.



- 1 Select the channel you want to lock.

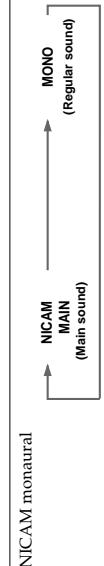
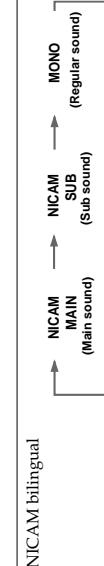
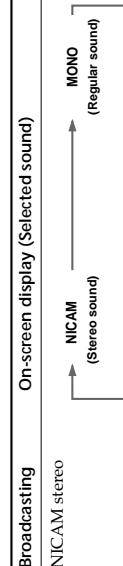
- 2 Press SELECT until "CHILD LOCK" appears on the screen.

- 3 Press + or - to select "ON".



- Note**
- If you preset a locked channel, that particular channel will be unlocked automatically (page 8).

When receiving a NICAM program



Additional Teletext tasks

To	Do this
display a Teletext page on the TV picture	Press  Each time you press  , the screen changes as follows: Teletext → Teletext and TV → TV.
check the contents of a Teletext service	Press  An overview of the Teletext contents and page numbers appear on the screen.
select a Teletext page	Press the number buttons to enter the three-digit page number of the desired Teletext page. * If you make a mistake, reenter the correct page number. To access the next or previous page, press PROGR + / -.
hold a Teletext page (stop the page from scrolling)	Press  at the top left corner of the screen. To resume normal Teletext operation, press  or  .
reveal concealed information (e.g., answer to a quiz)	Press  To conceal the information, press the button again.
enlarge the Teletext display	Press  Each time you press  the Teletext display changes as follows: Enlarge upper half → Enlarge lower half → Normal size.
wait for a Teletext page while watching a TV program	1 Enter the Teletext page number that you want to refer to, then press  2 When the page number is displayed, press  to show the text.

* You can also select a Teletext page of any page number that appears in the colored column at the bottom of the screen using the corresponding color-coded button on the remote.

Using FASTEXT

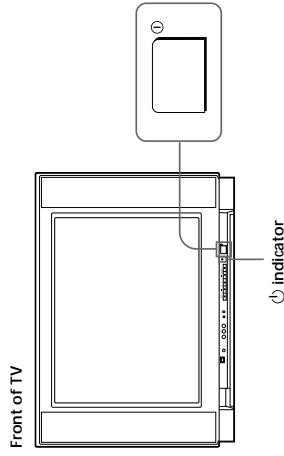
This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT program is broadcasted, the colored menus appear at the bottom of the screen. The colors of the menus correspond to the red, green, yellow, and blue color-coded buttons on the remote.

To access a FASTEXT menu

Press the color-coded button on the remote corresponding to the menu you want. The menu page appears on the screen after several seconds.

Self-diagnosis function

Your TV is equipped with a self-diagnosis function. If there is a problem with your TV, the  indicator flashes red. The number of times the  indicator flashes indicates the possible causes.



1 Check that the  indicator flashes red a number of times between 3-second intervals.

2 Count the number of times the  indicator flashes.

3 Press  (main power) to turn off your TV.

4 Inform your nearest Sony service center about the number of times the  indicator flashes. Be sure to note the model name and serial number located on the rear of your TV.

Troubleshooting

If you find any problem while viewing your TV, please check the following guide. If any problem persists, contact your Sony dealer.

Symptom	Possible cause	Solutions	Page
Snowy picture 	<ul style="list-style-type: none"> Connection is loose or the cable is damaged. Channel presetting is inappropriate or incomplete. The antenna type is inappropriate. The antenna direction is inappropriate. Signal transmission is low. 	<ul style="list-style-type: none"> Check the antenna cable and connection on the TV/VCR and on the wall. Press SELECT until "MANUAL PROGRAM" appears on the screen, then preset the channel again. Check the antenna type (VHF/UHF). Contact a Sony dealer for advice. Adjust the antenna direction. Contact a Sony dealer for advice. Try using a booster. 	4 9 -
Distorted picture 	Broadcast signals are too strong.	Turn off or disconnect the booster if it is in use.	-
Noisy sound 			
Good picture 	<ul style="list-style-type: none"> The TV system setting or channel presetting is inappropriate or incomplete. 	<ul style="list-style-type: none"> If the sound of all the channels are noisy, check the TV system (TV SYS) setting, then press AUTO PROCR to preset the channels again. If the sound of some channels are noisy, select the channel, then select the appropriate TV system (TV SYS). 	8 9
No picture 	<ul style="list-style-type: none"> The selected sound is inappropriate. The power cord, antenna or VCR is not connected. The TV is not turned on. 	<ul style="list-style-type: none"> If the sound of some channels are noisy, select the channel, then press A/B to select the main sound. Check the power cord, antenna and the VCR connections. Press \oplus (power). Press \ominus (main power) on the TV to turn off the TV for about five seconds, then turn it on again. 	18 4 12 11
No sound 			

Troubleshooting (continued)

Symptom	Possible cause	Solutions	Page	
Good picture 	<ul style="list-style-type: none"> The volume level is too low. The sound is muted. Broadcast signal has a transmission problem. 	<ul style="list-style-type: none"> Press $\rightarrow +$ to increase the volume level. Press \times to cancel the muting. Press A/B until a better sound is heard. 	11 12 18	
No sound 				
Dotted lines or stripes 		<ul style="list-style-type: none"> There is local interference from cars, neon signs, hair dryers, power generators, etc. 		
Double images or "ghosts" 		<ul style="list-style-type: none"> Broadcast signals are reflected by nearby mountains or buildings. The antenna direction is inappropriate. Use of a booster is inappropriate. 	<ul style="list-style-type: none"> Do not use a hair dryer or other equipment near the TV. Adjust the antenna direction for minimum interference. Contact a Sony dealer for advice. Use a highly directional antenna. Use the fine tuning (FINE) function. 	- -
No color 		<ul style="list-style-type: none"> The color level setting is too low. 	<ul style="list-style-type: none"> Adjust the antenna direction. Contact a Sony dealer for advice. Turn off or disconnect the booster if it is in use. 	- -
Abnormal color patches 		<ul style="list-style-type: none"> The color system setting is inappropriate. 	<ul style="list-style-type: none"> Press SELECT until "COLOR" appears on the screen, then press + or - to adjust the color level. Press SELECT until "COL SYS" appears on the screen, then check the color system setting (usually set this to "AUTO"). 	15 10
TV cannot receive stereo broadcast signal (KV-XG29M30 only) 		<ul style="list-style-type: none"> The antenna direction is inappropriate. The magnetic disturbance from external speakers or other electrical equipment away from the TV. Do not move the TV while the TV is turned on. Press \ominus (main power) on the TV to turn off the TV for about five minutes, then turn it on again. The stereo reception setting is inappropriate. 	<ul style="list-style-type: none"> Adjust the antenna direction. Contact a Sony dealer for advice. Keep external speakers or other electrical equipment away from the TV. Do not move the TV while the TV is turned on. Press \ominus (main power) on the TV to turn off the TV for about five minutes, then turn it on again. Press A/B until "AUTO" appears on the screen. 	- - 18

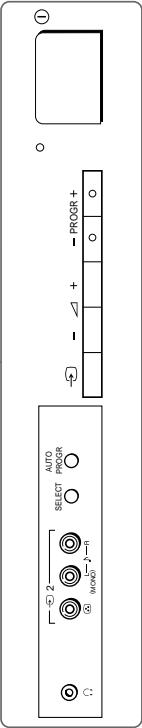
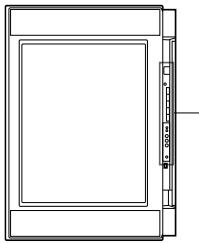
continued

Additional Information

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Identifying parts and controls

Front panel



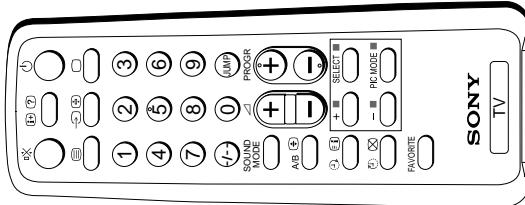
Button	Function	Page
AUTO PROGR	Preset channels automatically.	5
SELECT	Select the desired item.	9
PROGR +/-	Select program number.	11
①	Turn off completely or turn on the TV.	11
② +/-	Adjust volume.	11
③	Select TV or video input.	12
④	Headphone jack.	-

Symptom	Possible cause	Solutions	Page
Stereo broadcast sound switches on and off or is distorted.	• Connection is loose or the cable is damaged. • The antenna direction is inappropriate.	• Check the antenna cable and connection on the TV, VCR and on the wall. • Adjust the antenna direction. Contact a Sony dealer for advice.	4
Or	• Broadcast signal has a transmission problem.	• Press A/B until a better sound is heard.	18
The sound switches between monaural and stereo frequently. (KV-XG29M30 only)	"100" appears on the top of the screen and there is no Teletext display.	—	20
Teletext display is incomplete (snowy picture or double images). (KV-XG29M21 only)	• Connection is loose or the cable is damaged. • The antenna direction is inappropriate.	• Check the antenna cable and connection on the TV, VCR, and at the wall. • Adjust the antenna direction. Contact a Sony dealer for advice.	4
Picture slant	• Signal transmission is too low.	• Try using a booster. • Use the fine tuning (FINE) function.	—
Lines moving across the TV screen.	• There is interference from external sources, e.g., heavy machinery, nearby broadcast station.	• Use the fine tuning (FINE) function.	10
The ⑤ indicator on your TV flashes red a number of times between 3-second intervals.	• Your TV may need service.	• Contact your nearest Sony service center.	22
TV cabinet creaks.	• Changes in room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.	—	—
A "boom" sound is heard when the TV is turned on.	• The TV's demagnetizing function is working. This does not indicate a malfunction.	—	—

Additional Information | 25

26 | Additional Information

Remote Control



The names/symbols of buttons on the remote are indicated in different colors to represent the available functions.

Label color	Button function
White	For general TV operations
Green	For Teletext operations

Specifications

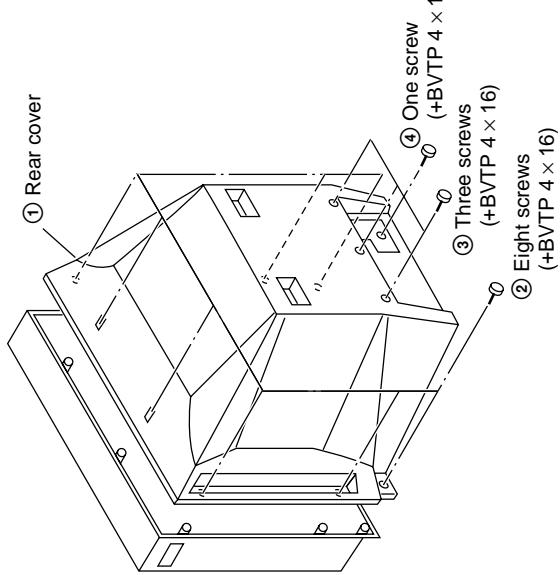
Button	Function	Page	KV-XG29M30 KV-XG29M21	Note
SELECT	Select the desired item. Adjust value.	9	220-240 V AC, 50/60 Hz Indicated on the rear of the TV	
PROGR +/-	Select program number. Input numbers.	11	B/G, I/D/K, M PAL, PAL 60, SECAM, NTSC 4/3, NTSC 3.58	
0 - 9, .,-	Input numbers. Adjust volume.	11	NICAM/Stereo/Bilingual B/G; A2-Stereo/Bilingual (German) B/G	KV-XG29M30
↶ +/-	Turn off temporarily or turn on the TV.	11		KV-XG29M21
↶	Select TV or video input.	12	Channel coverage B/G	English, Arabic, French
□	Display the TV program.	12	VHF : E2 to E12 UHF : E21 to E59	
☒	Mute the sound.	12	CATV : S01 to S03, S1 to S41	New Zealand only
Ⓕ	Display on-screen information.	12	VHF : 3-10 to 12, 5A, 9A UHF : 28 to 69	
JUMP	Jump to previous channel.	12	CATV : S01 to S03, S1 to S41	Australia only
Timer operations	Set TV to turn on automatically. Set TV to turn off automatically.	13	VHF : 1-11 UHF : 21 to 69	
⌚		13	CATV : S01 to S03, S1 to S41	
PIC MODE	Select picture mode.	14	UHF : B21 to B68	
SOUND MODE	Select sound mode.	14	CATV : S01 to S03, S1 to S41	
FAVORITE	Display favorite channels.	16	D/K	VHF : C1 to C12, R1 to R12 UHF : C13 to C57, R21 to R60
Stereo/bilingual operations (KV-XG29M30 only)		-	M	CATV : S01 to S03, S1 to S41, Z1 to Z39 VHF : A2 to A13 UHF : A14 to A79 CATV : A-8 to A-2, A to W-4, W-6 to W-84
Teletext operations (KV-XG29M21 only)		-	TV (Antenna)	75-ohm external terminal
Audio output		-		5W + 5W
Number of terminal		-		
② (Video)		-	Input: 2 Output: 1	Phone jacks: 1 Vp-p, 75 ohms
③ (Audio)		-	Input: 2 Output: 1	Phone jacks: 500 mVrms
④ (Headphone)		-	Output: 1	Minijack
Picture tube		-		
Tube size (cm)		29 in.		Measured diagonally
Screen size (cm)		72		Measured diagonally
Dimensions (w/h/d, mm)		68		
Mass (kg)		48		

Design and specifications are subject to change without notice.

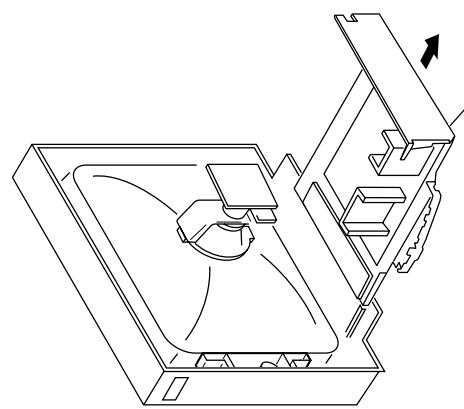
Sony Corporation

SECTION 2 DISASSEMBLY

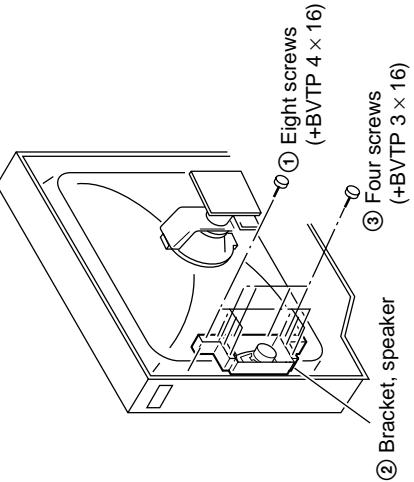
2-1. REAR COVER REMOVAL



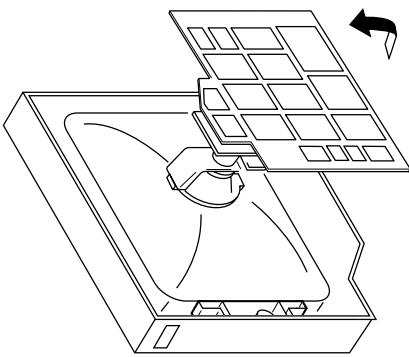
2-3. CHASSIS ASSY REMOVAL



2-2. SPEAKER REMOVAL



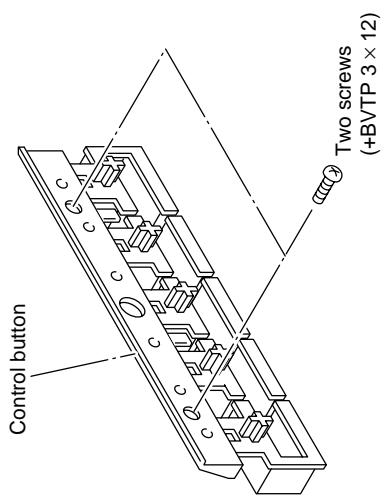
2-4. SERVICE POSITION (Note: Remove F Bracket first.)



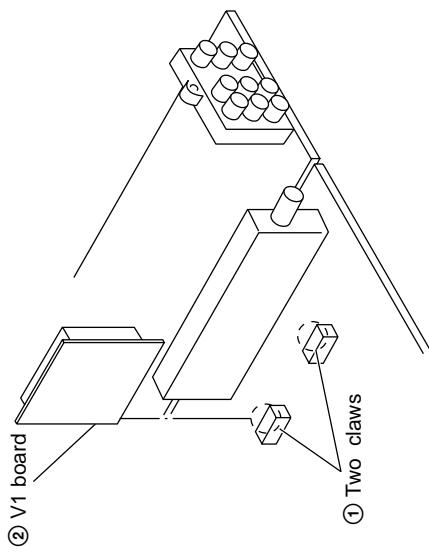
2-5. REPLACEMENT OF PARTS

For replacement of the Control Button and Light Guide, unscrew them, exchange with the new parts, and fix them with screws (+BVTP) respectively.

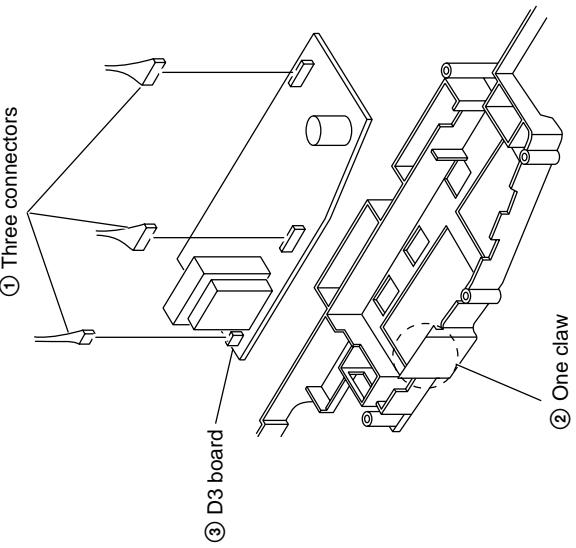
2-5-1. REPLACEMENT OF CONTROL BUTTON



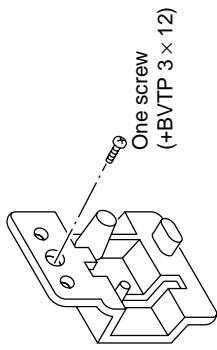
2-6. V1 BOARD REMOVAL



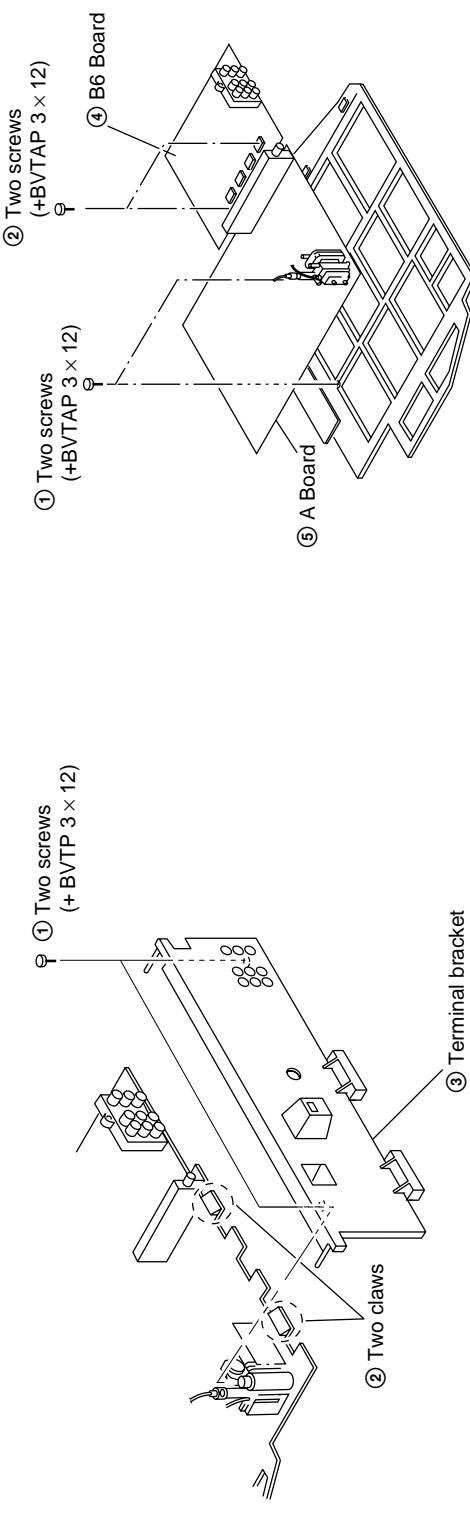
2-7. D3 BOARD REMOVAL



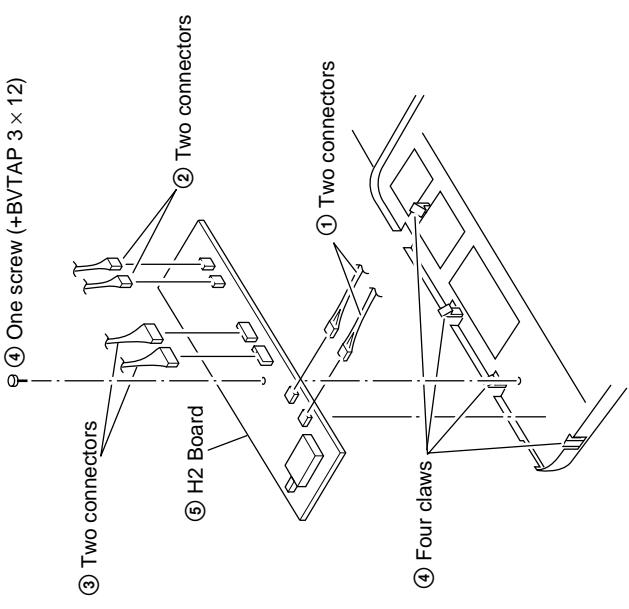
2-5-2. REPLACEMENT OF LIGHT GUIDE



2-8. TERMINAL BRACKET REMOVAL



2-9. H2 BOARD REMOVAL

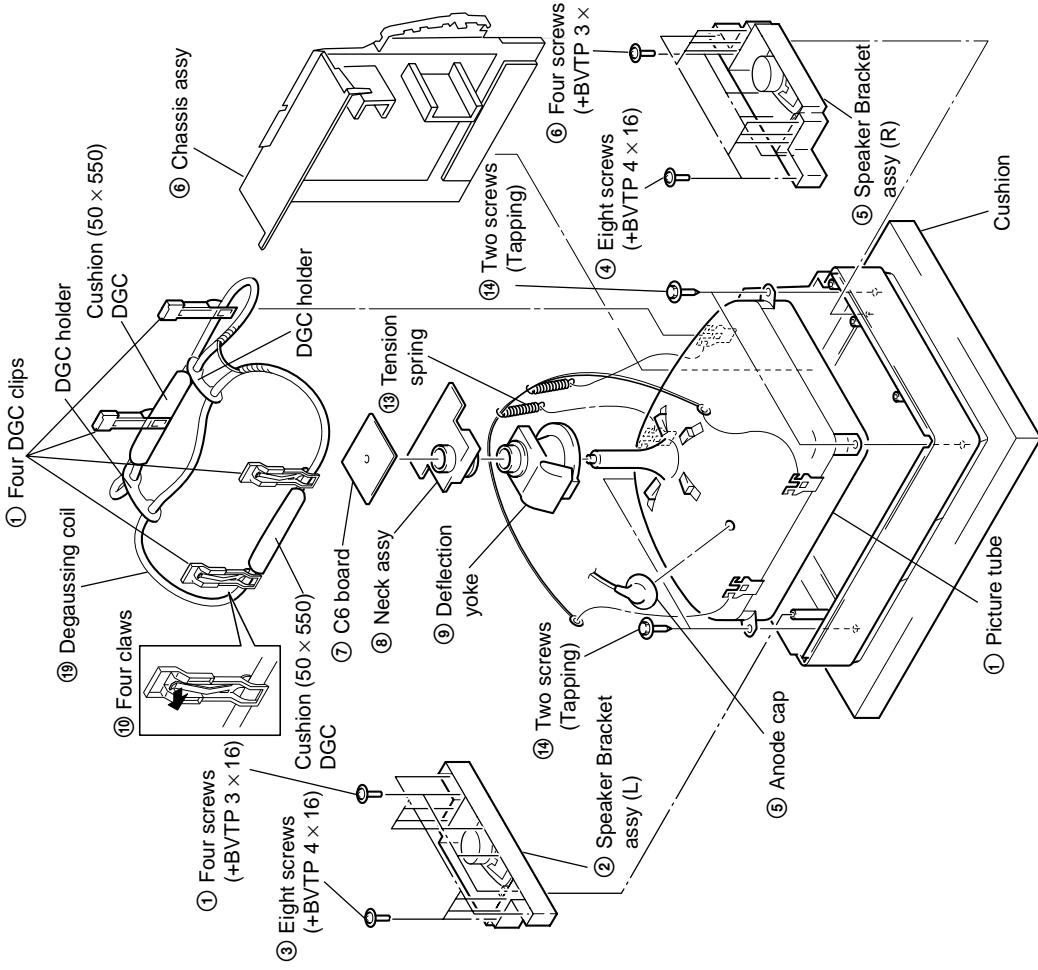


2-11 PICTURE TUBE REMOVAL

Note: The picture tube for New Zealand model is upside down, and the position for anode cap and tension spring are changed accordingly.

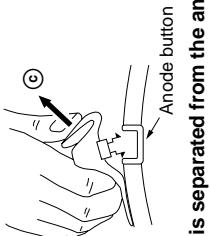
• REMOVAL OF ANODE-CAP

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

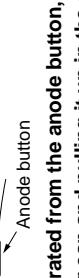


• REMOVING PROCEDURES

- The diagram illustrates two steps for removing a rubber cap from a tube. Step ① shows a hand turning up one side of the cap. Step ② shows a hand using a thumb to pull up the cap, with an arrow indicating the direction of pull.



- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).



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

HOW TO HANDLE AN ANODE-CAP

- ① Do not damage the surface of anode-caps with sharp shaped objects.
 - ② Do not press the rubber too hard so as not to damage the inside of anode-cap.
 - ③ A metal fitting called the shatter-hook terminal is built into the rubber.
 - ④ Do not turn the foot of rubber over too hard.
 - ⑤ The shatter-hook terminal will stick out or damage 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.

Controls and switches should be set as follows unless otherwise noted:

PICTURE control normal
BRIGHTNESS control normal

Perform the adjustments in the following order :

- Beam Landing
- Convergence
- Focus
- White Balance

Note : Test Equipment Required.

- Color-bar/Pattern Generator
- Degausser
- Oscilloscope

Preparation :

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

- Input a white signal with the pattern generator.
Contrast } normal
Brightness
- Position neck assy as shown in Fig3-2.
- Set the pattern generator raster signal to a green raster.
- Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.
(See Figures 3-1 through 3-4.)
- Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 3-2.)
- Switch the raster signal to blue, then to red and verify the condition.
- When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws and DY spacers.
- If the beam does not land correctly in all the corners, use a magnet to adjust it.
(See Figure 3-5.)

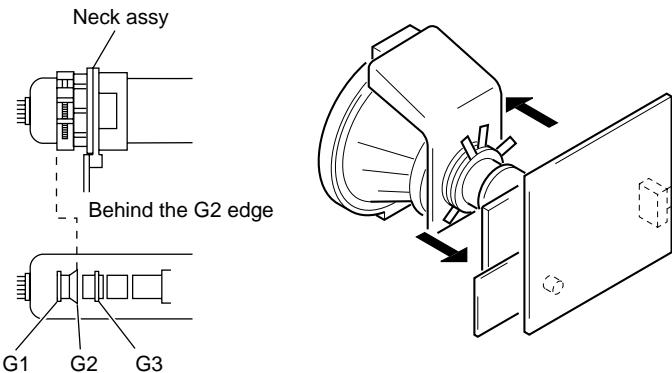


Fig. 3-1

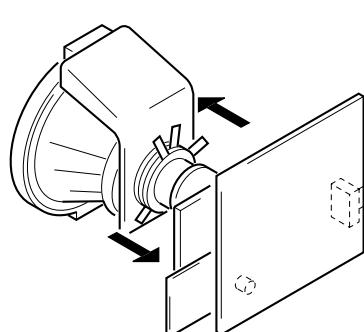


Fig. 3-2

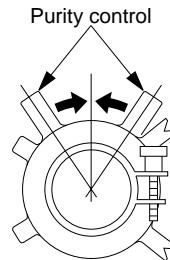


Fig. 3-3

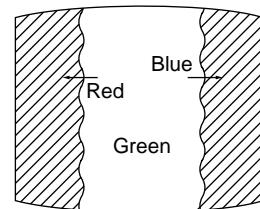


Fig. 3-4

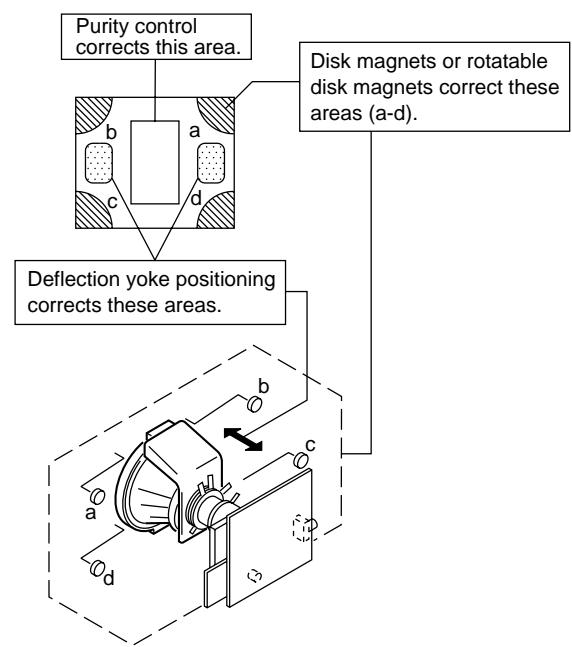


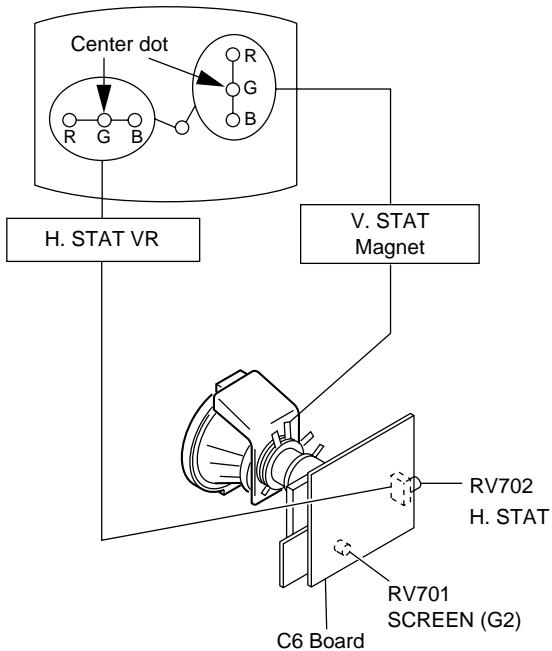
Fig. 3-5

3-2. CONVERGENCE

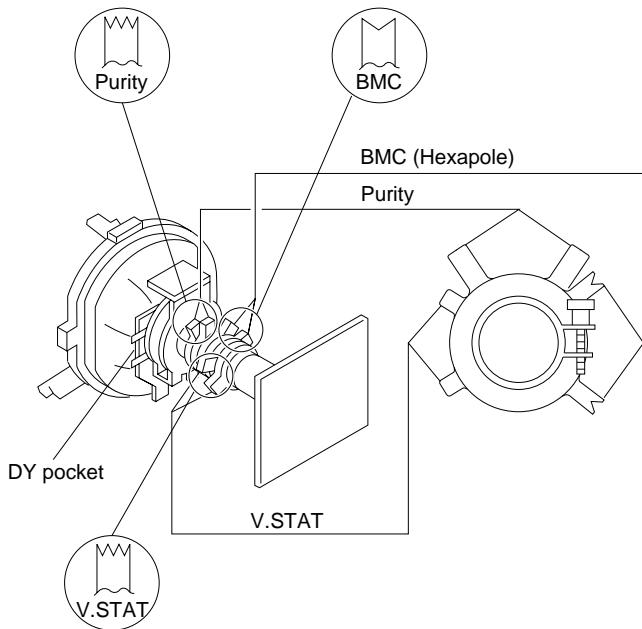
Preparation :

- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

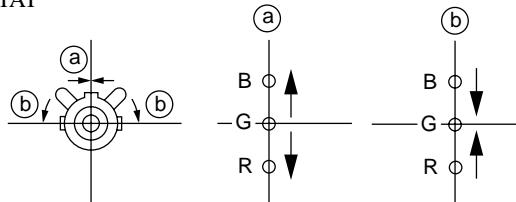
(1) Horizontal and Vertical Static Convergence



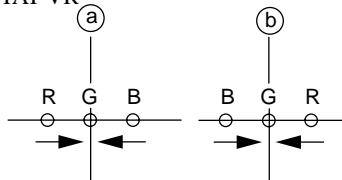
1. (Moving horizontally), adjust the H.STAT control so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green and blue dots together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other, so be sure to perform adjustments while tracking.)



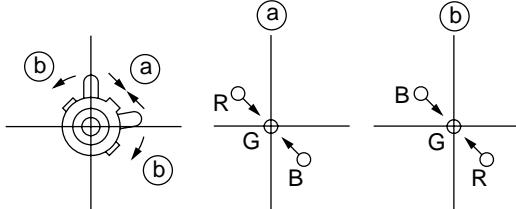
① V. STAT



② H. STAT VR

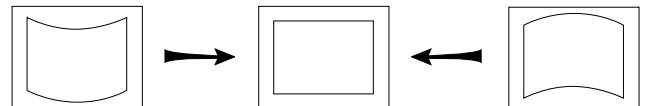
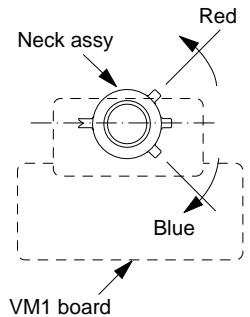
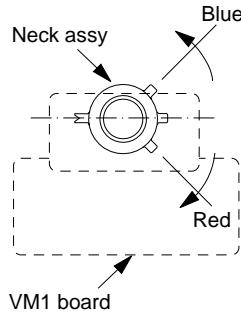
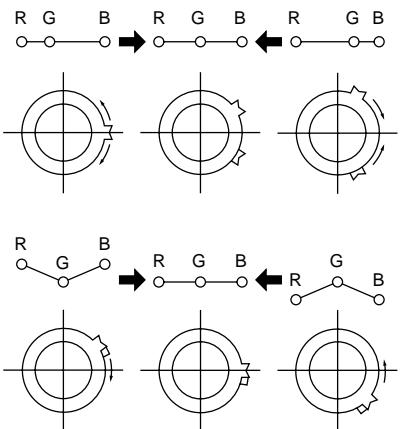


③



④ BMC (Hexapole) Magnet.

If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.



Note

1. The Red and Blue magnets should be equally far from the horizontal center line.
2. Do not separate the Red and Blue magnets too far. (Less than 8 mm)

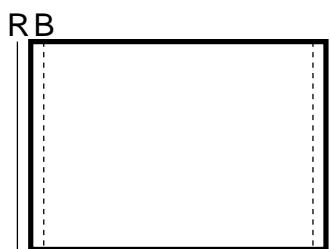
⑤ Y separation axis correction magnet adjustment.

1. Receive the cross-hatch signal and adjust [PICTURE] to [MIN] and [BRIGHTNESS] to [STANDARD].
2. Adjust the Y separation axis correction magnet on the neck assembly so that the horizontal lines at the top and bottom of the screen are straight.

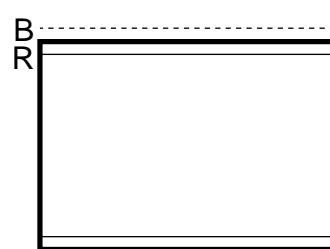
(2) Dynamic Convergence Adjustment

Preparation:

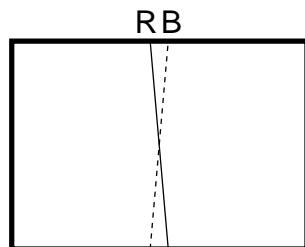
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence



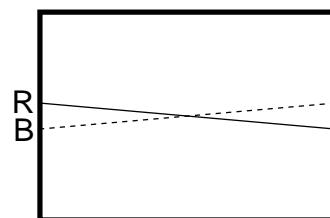
TLH



TLV



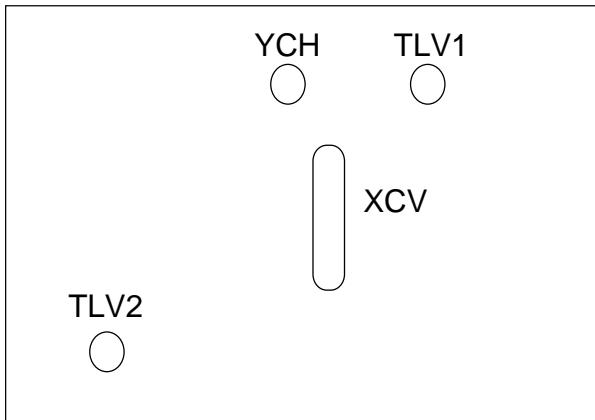
YCH



XCV

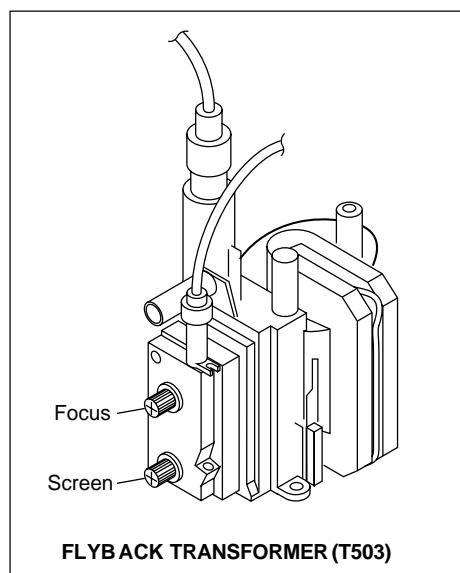
TLV	Rotate	TLV-2 VOL (29", 34") on DY
	Rotate	TLV VOL (25") on DY
XCV	Rotate	XCV Adj core on DY
YCH	Rotate	YCH VOL on DY
TLH	Insert	TLH Correction Plate to DY Pocket (Left or Right)

ON DY:

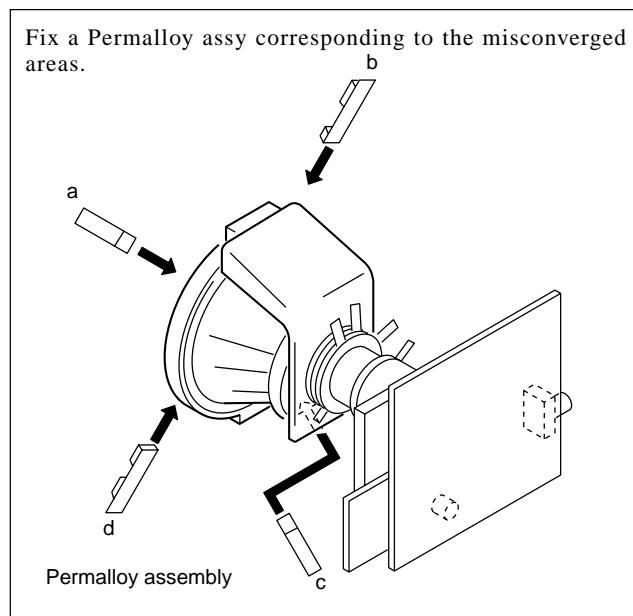
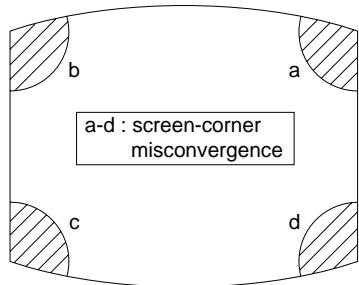


3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for the best focus.



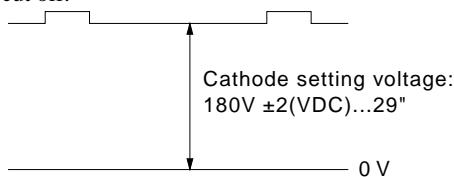
(3) Screen-corner Convergence



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

1. G2 (SCREEN) ADJUSTMENT

- 1) Set the PICTURE to normal.
- 2) Put to VIDEO input mode without signals.
- 3) Connect R, G and B of the C6 board cathode to the oscilloscope.
- 4) Adjust BRIGHTNESS to obtain the cathode voltage to the value below.
- 5) Adjust G2 (screen) on the FBT until picture shows the point before cut off.

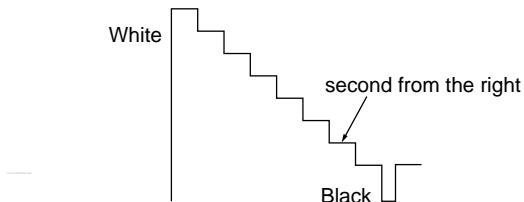


2. WHITE BALANCE ADJUSTMENT

- 1) Set to Service Mode (Refer Section 4-1: ADJUSTMENTS WITH COMMANDER).
- 2) Input white raster signal.
- 3) Set the PICTURE to minimum.
- 4) Select GCT (WHB 4) and BCT (WHB 5) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
- 5) Set the PICTURE to maximum.
- 6) Select GDR (WHB 1) and BDR (WHB 2) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
- 7) Write into the memory by pressing [MUTING] then [0].

3. SUB BRIGHT ADJUSTMENT

- 1) Set to service mode.
- 2) Input a staircase signal of black to white from the pattern generator.
- 3) BRIGHTNESS 50%.
PICTURE MINIMUM
- 4) Select SBR (WHB7) with [1] and [4], and adjust SBR (WHB7) level with [3] and [6] so that the second stripe from the right is dimly lit.



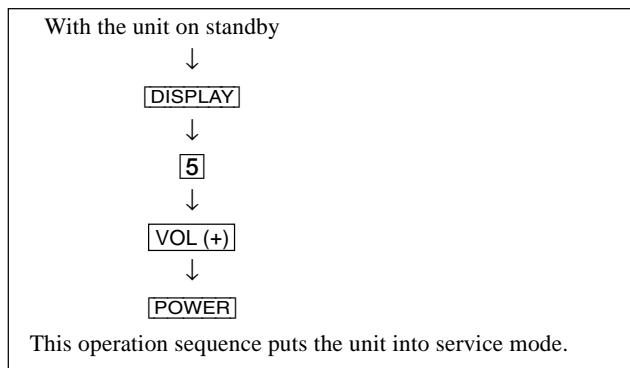
SECTION 4

CIRCUIT ADJUSTMENTS

4-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-952 that comes with this unit.

a. ENTERING SERVICE MODE



b. METHOD OF CANCELLATION FROM SERVICE MODE

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

c. METHOD OF WRITE INTO MEMORY

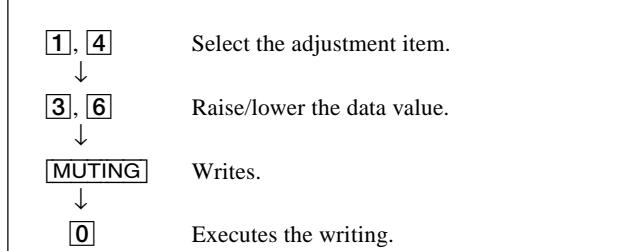
- 1) Set to Service Mode.
- 2) Press [1] (UP) and [4] (DOWN), select an item of adjustment.
- 3) Press [MUTING] button and it will indicate WRITE on the screen.
- 4) Press [0] button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

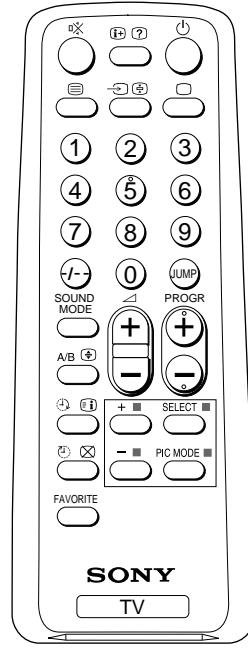
- 1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again to confirm adjustments were made.

The screen display is :

Device Name	Item Name	Marking of virgin NVM			
		Item No	Data	Mode	
GEO	00	HPS	1C	■ SERVICE	PAL, SECAM : 50
627S	1.0C	59	7F	0	NTSC : 60
Suffix No (OEM Code)	Software version			000A	Total Power-On time (hours)



- | | |
|----------|---|
| [7], [0] | All the data becomes the values in memory. |
| [8], [0] | All user control goes to the standard state. |
| [5], [0] | Service data initialization (Be sure not to use usually.) |
| [2], [0] | Write 50Hz adjustment data to 60Hz, or vice versa. |



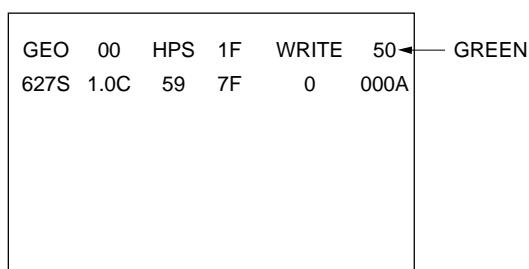
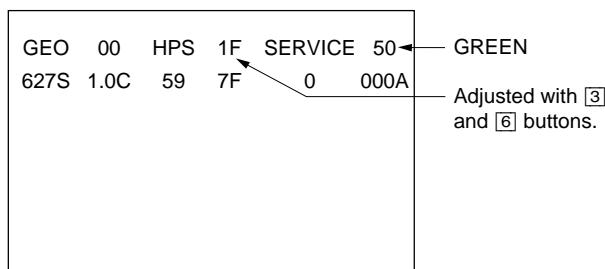
RM-952

4-2. ADJUSTMENT METHOD

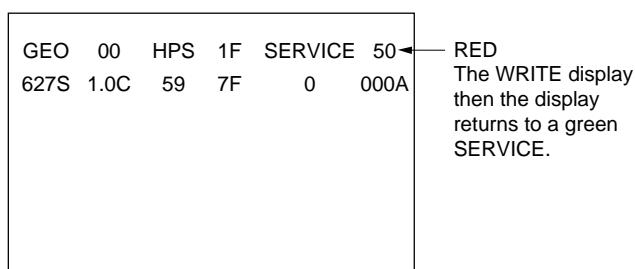
Item Number 00 of device GEO

This explanation uses H-Position as an example.

1. Select “GEO 00 HPS” with the **[1]** and **[4]** buttons.
2. Raise/lower the data with the **[3]** and **[6]** buttons.
3. Select the optimum state. (The standard is 1F for PAL reception.)
4. Write with the **[MUTING]** button. (The display changes to WRITE.)
5. Execute the writing with the **[0]** button. (The WRITE display will be changed to red color while executing, and back to SERVICE.)



Written with **[MUTING]**



Write executed with **[0]**

Use the same method for all Items. Use **[1]** and **[4]** to select the adjustment item, use **[3]** and **[6]** to adjust, write with **[MUTING]**, then execute the write with **[0]**.

- Note :**
1. In **[WRITE]**, the data for all items are written into memory together.
 2. For adjustment items that have different standard data between 50Hz or 60Hz, be sure to use the respective input signal after adjustment.

Adjustment Item Table

Device Name	Functionality No.	Name	Note	Data Range	Function	Note for Different Data	Register No. (bit)	Slave Address	RAM Address (bit)
GEO	0	HPS	7	3F	H Position	50/60Hz	12 (7-2)	CXA2139S(88H)	82 (7-2)
	1	HSZ	1F	3F	H Size	50/60Hz	11 (7-2)		81 (7-2)
	2	PAP	1F	3F	Pin Amp	50/60Hz	13 (7-2)		83 (7-2)
	3	TLT	7	0F	Trapezium	50/60Hz	15 (7-4)		85 (7-4)
	4	VPS	1F	3F	V Position	50/60Hz	0F (7-2)		7F (7-2)
	5	VSZ	1F	3F	V Size	50/60Hz	0E (7-2)		7E (7-2)
	6	SCO	7	0F	S Correction	50/60Hz	10 (7-4)		80 (7-4)
	7	VLN	7	0F	V Linearity	50/60Hz	10 (3-0)		80 (3-0)
	8	BOW	7	0F	AFC Bow	50/60Hz	16 (7-4)		86 (7-4)
	9	AGL	7	0F	AFC-Angle	50/60Hz	16 (3-0)		86 (3-0)
	10	UPN	1F	3F	Upper Pin	50/60Hz	14 (7-2)		84 (7-2)
	11	LPN	1F	3F	Lower Pin	50/60Hz	18 (7-2)		88 (7-2)
	12	HBL	0	1	H Blanking on/off		18 (1)		67 (1)
	13	LBL	7	0F	Left H Blanking	50/60Hz	17 (7-4)		87 (7-4)
	14	RBL	7	0F	Right H Blanking	50/60Hz	17 (3-0)		87 (3-0)
WHD	0	RDR	2A	3F	R Drive	DYNAMIC/others	09 (7-2)	CXA2139S(88H)	8F (7-2)
	1	GDR	2A	3F	G Drive	DYNAMIC/others	0A (7-2)		90 (7-2)
	2	BDR	2A	3F	B Drive	DYNAMIC/others	0B (7-2)		91 (7-2)
	3	RCT	7	0F	R Cutoff	SECAM/others	07 (3-0)		93 (3-0)
	4	GCT	7	0F	G Cutoff	SECAM/others	08 (7-4)		94 (7-4)
	5	BCT	7	0F	B Cutoff	SECAM/others	08 (3-0)		94 (3-0)
	6	BMN	15	1F	Brightness Minimum Data				97
	7	SBR	28	3F	Sub Brightness Control				98
SAJ	0	PMX	33	3F	Picture Maximum Data	TV/Video		CXA2139S(88H)	96
	1	SHU	8	0F	Sub Hue Control	TV/Video			99
	2	SSH	3	0F	Sub Sharpness Control	NTSC/others			9A
	3	SCL	1F	3F	Sub Color Control	NTSC/others			9B
	4	EHT	4	0F	EHT Comp	50/60Hz	15 (3-0)	CXA2139S(88H)	85 (3-0)
	5	GMA	2	03	Gamma Correction	Refer NVM map A4	0B (1-0)		1A3 (1-0)
	6	YDL	6	0F	Y Delay	PAL/SECAM/NTSC	0C (3-0)		8C (3-0)
VP	0	SST	1	03	SECAM ID Start Position	0C (3-0)			6A (1-0)
	1	SSP	1	03	SECAM ID Stop Position	1B (1-0)			6A (3-2)
	2	SLV	2	03	SECAM ID Level	1C (1-0)			6B (1-0)
	3	SBF	22	3F	SECAM BELL fO	1C (7-2)			6B (7-2)
	4	DYC	0	1	Dynamic Color on/off	0A (1)			59 (1)
	5	ABL	1	1	ABL Mode Switching	STANDARD always 0	09 (1)		58 (1)
	6	VTH	1	1	ABL Detection V/h Switching		09 (0)		58 (0)
	7	SFO	1	1	FO Switching for Sharpness	NTSC/others	05 (1)		198 (1)
	8	DCX	1	1	DC Trans. Ratio Switching	NTSC/others	06 (1)		55 (1)
	9	SHT	1	1	Pre-Overshoot ratio Switch	NTSC/others	06 (0)		199 (0)

Adjustment Item Table

Device Name	Functionality	No	Name	Note	Data Range	Function	Note for Different Data	Register No. (bit)	Slave Address	RAM Address (bit)
VP		13	HDW	0	1	H Drive Pulse Width Switch		00 (6) 0F (1-0)		4F (6) 8D (1-0)
		14	AFC	1	03	AFC Gain Control		0C (7-4)		5B (7-4)
		15	HOS	7	0F	H Oscillation		0D (1)		5C (1)
		16	HSS	0	1	Slice Level of H Sync Sep.		0D (0)		5C (0)
		17	VSS	0	1	Slice Level of V Sync Sep.		0E (0)		7E (0)
		18	HMS	0	1	Macro Vision C/m off/on		01 (0)		50 (0)
		19	YUV	0	1	YUV Switch Control		0D (5-4)		1A1 (5-4)
		20	CDV	1	3	CD mode for Video				50 (3)
		21	RON	1	1	R ON				50 (2)
		22	GON	1	1	G ON				50 (1)
		23	BON	1	1	B ON				4F (7)
		24	PON	1	1	P ON				61 (0)
		25	BLK	0	1	BLK Off				62 (0)
		26	VMC	0	1	VM Off				
AP		0	INF	0		3F	Input Attenuation When surround off	00 (5-0)	TDA7429	19F (5-0)
		1	INS	0		3f	Input Attenuation When surround on			1A0 (5-0)
		2	PH1	0		3	Phase 1 Register Selection			76 (1-0)
		3	PH2	0		3	Phase 2 Register Selection			76 (3-2)
		4	PH3	0		3	Phase 3 Register Selection			76 (5-4)
		5	PH4	0		3	Phase 4 Register Selection			76 (7-6)
		6	BCS	2		3	Bass Center Shift			1A8 (1-0)
		7	TCS	2		3	Treble Center Shift			1A9 (1-0)
		8	TRF	2		3	RF Treble Offset			1A9 (5-4)
MSP		0	WST	15		FF	W/G Stereo Threshold			157 (7-0)
		1	WB7	EA		FF	W/G Bilingual Threshold			158 (7-0)
		2	WLL	5		FF	W/G Monaural Threshold			159 (7-0)
		3	WAC	0		0F	W/G Agreement Count			15A (3-0)
		4	WDL	30		FF	W/G Search Delay			15B (7-0)
		5	NDL	20		FF	NICAM Search Delay			15C (7-0)
		6	SDL	10		FF	Stereo status Read Delay			15D (7-0)
		7	AGC	1		1	AGC Switch Auto/Constant			108 (7)
		8	REL	28		3F	AGC Gain at Constant Mode			108 (6-1)
		9	CRM	0		1	Carrier muting on/off			107 (1)
		10	ACO	1		1	Audio Clock out on/off			10C (5)
		11	FP	1B		7F	FM Prescale for non-M system			16C (6-0)
		12	FPM	32		7F	FM Prescale for M system			16D (6-0)
		13	FH	36		7F	FM Prescale for HDEV			16E (6-0)
		14	FHM	65		7F	FM Prescale for HDEV and M			16F (6-0)
		15	WGP	2A		7F	W/G Prescale			170 (6-0)
		16	NIP	6D		7F	NICAM Prescale			138 (6-0)
		17	ERR	50		FF	Auto FM switch Threshold			166 (7-0)
		18	VOL	6D		FF	Loud Speaker gain 7000h to 7ffh			1A7 (7-0)
							0000 (15-4)			

Adjustment Item Table

Device Name	Functionality No	Name	Note	Data Range	Function	Note for Different Data	Register No. (bit)	Slava Address	RAM Address (bit)
TXT	0	TXH	1	3	Telertext Horizontal Position	(58H)	18D (1-0)	18D (6-4)	AC (7-2)
	1	TXV	0	3	Telertext Vertical Position				
OPM	0	OSH	0A	3F	OSD H Position	(58H)	A5 (7-6)	A4 (5)	A4 (4-3)
	1	COM	0	03	Comb Selection				
	2	APC	1	1	APC Switch				
	3	TSY	0	03	TV Sys at Auto TV Sys				
	4	MUT	0	1	No Signal Mute				
	5	AFM	0	1	Auto FM switch				
	6	RFB	0	3	C-BPF Control				
	7	TVO	0	7	Tilt to V-Angle offset				
	8	DBL	0	1	Disable Blueback Function				
OPB	0	OP1	FF	FF	Optional Bits 1 (see below)	Option-Bits.	A4 (2)	A4 (2)	A4 (2)
	1	OP2	1	FF	Optional Bits 2 (see below)				
	2	OP3	0	FF	Optional Bits 3 (see below)				

NOTE

- shaded items are fixed data.
 - Standard data listed on the Adjustment Item Table are reference values, therefore it may be different for each model and for each mode.
 - Note for Different Data Those are the standard data values written on the microprocessor. Therefore, the data values of the modes and stored respectively in the memory.
- In case of a device replacement, adjustment by rewriting the data value is necessary for some items.

ITEM INFORMATION.

No. OPB0 OP1

Item	XTAL 4.43	XTAL 3.58	SECAM	2nd. Lang	B/G	I	D/K	M
KV-XG29M21	1	1	1	1	1	1	1	1

No. OPB1 OP2

Item	TOP	NICAM	HDEV	Thai Bil	Dis Fav.	DVD Input	AV Input	
KV-XG29M21	0	0	1	0	0	0	1	1

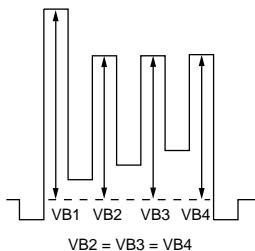
No. OPB2 OP3

Item	PIC Rotate	2199 Curve	Auto PIC	Auto TV sys	US ST	AV Mono	11 KEY	Color SW
KV-XG29M21	1	0	1	0	0	1	0	0

4-3. PICTURE QUALITY ADJUSTMENTS

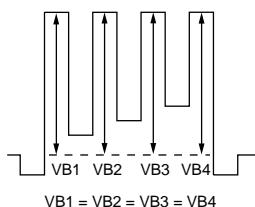
SUB COLOR ADJUSTMENT

1. Input a PAL color-bar.
2. Set to the following condition:
PICTURE 100%, BRIGHTNESS 50%, COLOR 50%
3. Connect an oscilloscope to pin ① (B OUT) of CN305, A board.
4. Set to Service Mode and select SAJ 3 'SCL' with [1] and [4] of the commander then adjust to VB2=VB3=VB4 with [3] and [6].
5. Press [MUTING] → [0] of the commander to write the data.
6. Adjust SAJ 3 'SCL' as step 2 to 5 when receiving NTSC color-bar.



SUB HUE ADJUSTMENT

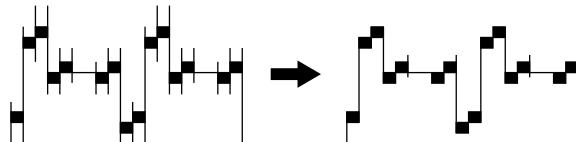
1. Select Video 1.
2. Input a NTSC color-bar, video into Video 1.
3. Set the following condition:
PICTURE 100%, BRIGHTNESS 50%, COLOR 50%
4. Connect an oscilloscope to pin ① (B OUT) of CN305, A board.
5. Select SAJ 1 'SHU' with [1] and [4] of the commander by setting to Service Mode and adjust to VB1=VB2=VB3=VB4 with [3] and [6].



6. Press [MUTING] → [0] of the commander to write the data.

BELL FILTER ADJUSTMENT

1. Input SECAM color-bar signal.
2. Connect the dual-trace oscilloscope to CN303 pin ⑨ (not mounted).
3. Adjust SERVICE MODE, ITEMS 'SBF' as shown below.



4-4. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

When replacing IC003 (MEMORY), be sure to change IC001 (μ -COM) to the following new IC at the same time.

IC001(μ -CON):

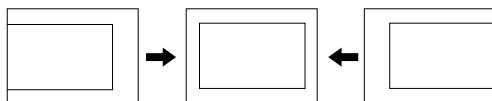
CXP86449-627S

1. Enter to Service Mode.
2. Press commander buttons [5] and [0] (Data Initialize), and [2] and [0] (Data Copy) to initialize the data.
3. Call each item number and check if the respective screen shows the normal picture.
In cases where items are not well adjusted, rectify the items with fine adjustment.
Write the data per each item number ([MUTING] + [0]).
4. Select item numbers "OPB0" (OP1), "OPB1" (OP2) and "OPB2" (OP3) and respectively set the bit per model with command buttons [3] and [6].
5. Press commander buttons [8] and [0] (Test Normal) to return to the data that was set on the shipment from the factory.
(This will also cancel Service Mode.)

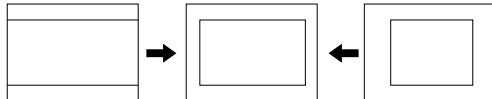
4-5. PICTURE DISTORTION ADJUSTMENT (1)

Item Number 00 – 0B

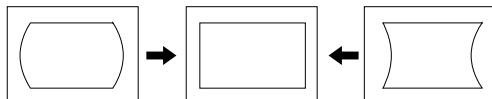
GEO 0 HPS (H POSITION)



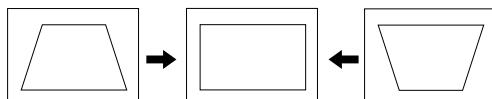
GEO 1 HSZ (H SIZE)



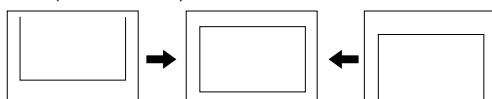
GEO 2 PAP (PIN AMP)



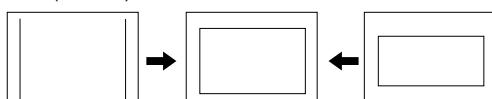
GEO 3 TLT (TRAPEZIUM)



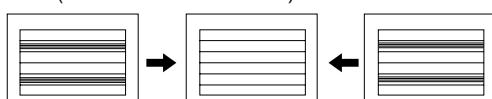
GEO 4 VPS (V POSITION)



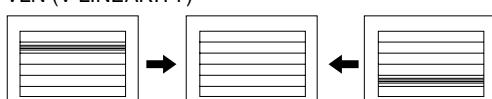
GEO 5 VSZ (V SIZE)



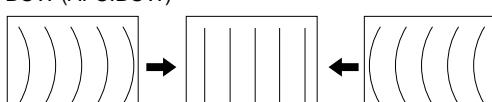
GEO 6 SCO (VERTICAL S-CORRECTION)



GEO 7 VLN (V LINEARITY)



GEO 8 BOW (AFC.BOW)



GEO 9 AGL (AFC.ANGLE)



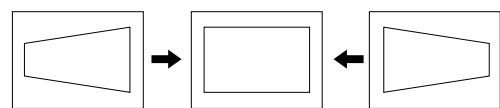
GEO 0A UCP (UPPER CORNER PIN)

GEO 0B LCP (LOWER CORNER PIN)



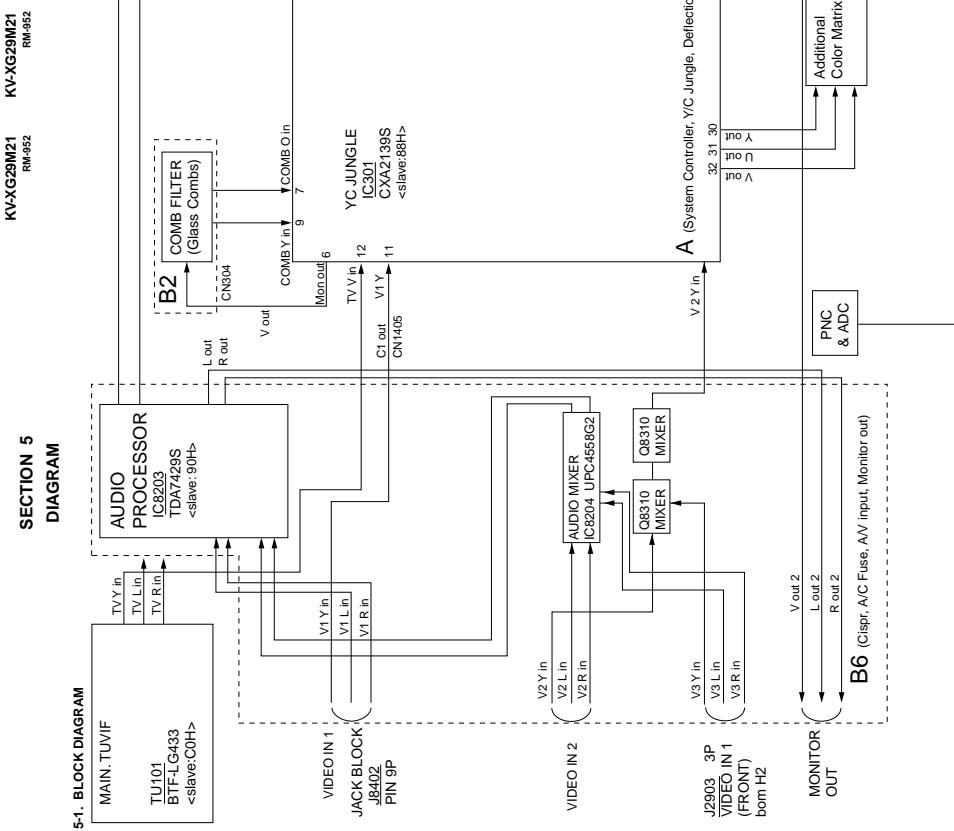
PICTURE DISTORTION ADJUSTMENT (2)

H-TRAPEZOID (Rotate RV1801)



SECTION 5
DIAGRAM

5-1 BLOCK DIAGRAM

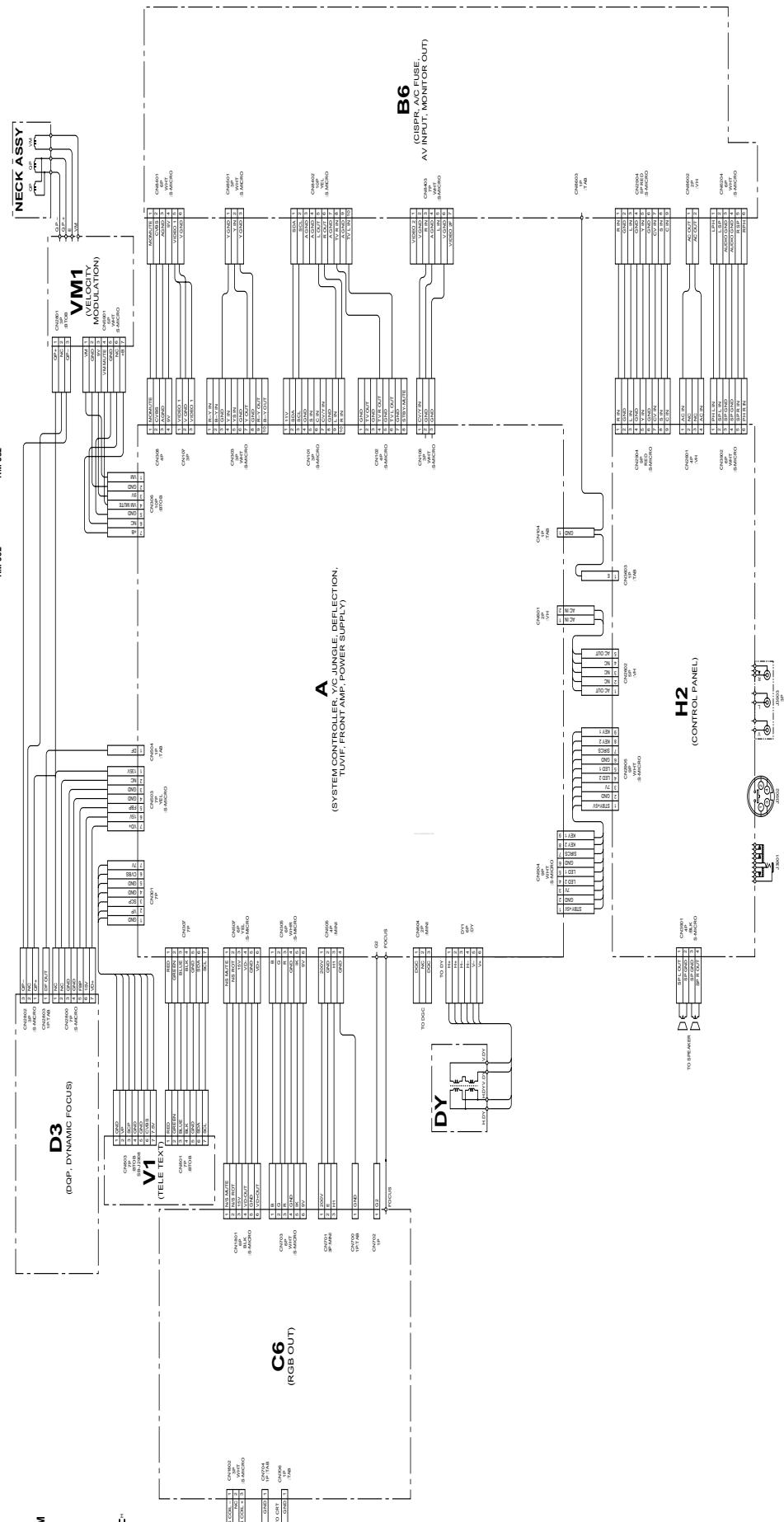


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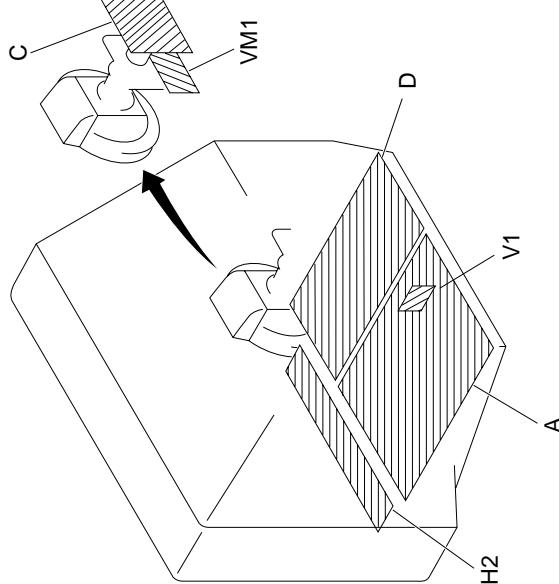
- 40 -

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5-2. FRAME SCHEMATIC DIAGRAM

KV-XG29M21
RM-932KV-XG29M21
RM-932

5-3. CIRCUIT BOARDS LOCATION



5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted.
 - All electrolytic capacitors are rated at 50V unless otherwise noted.
 - All resistors are in ohms.
 - $\text{k}\Omega = 1000\Omega$, $\text{M}\Omega = 1000\text{k}\Omega$
 - Indication of resistance which does not have rating electrical power is as follows.
- Pitch: 5 mm
Rating electrical power 1/4W (CHIP: 1/10W)
- : nonflammable resistor.
- : internal component.
- : panel designation or adjustment for repair.
- : All variable and adjustable resistors have characteristic curve B unless otherwise noted.
- Readings are taken with a color-bar signal input.**
- no mark : PAL
 - { } : SECAM
 - [] : NTSC 3.58
 - <> : NTSC 4.43
- Readings are taken with a 10 $\text{M}\Omega$ 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.
 - * : Cannot be measured.
- Circled numbers are waveform references.**
- : B+ bus.
- : B- bus.
- : signal path.

Reference information	
RESISTOR	:RN
	:RC
	:FRD
	:FUSE
	:RS
	:RB
	:RW
COIL	:X
CAPACITOR	:LF-8L
	:TA
	:TANTALUM
	:STYROL
	:POLYPROPYLENE
	:PP
	:MYLAR
	:PT
	:MPS
	:MPP
	:ALB
	:ALT
	:ALR
	METAL FILM
	SOLID
	NONFLAMMABLE CARBON
	NONFLAMMABLE FUSIBLE
	NONFLAMMABLE METAL OXIDE
	NONFLAMMABLE CEMENT
	NONFLAMMABLE WIREWOUND
	ADJUSTMENT RESISTOR
	MICRO INDUCTOR

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

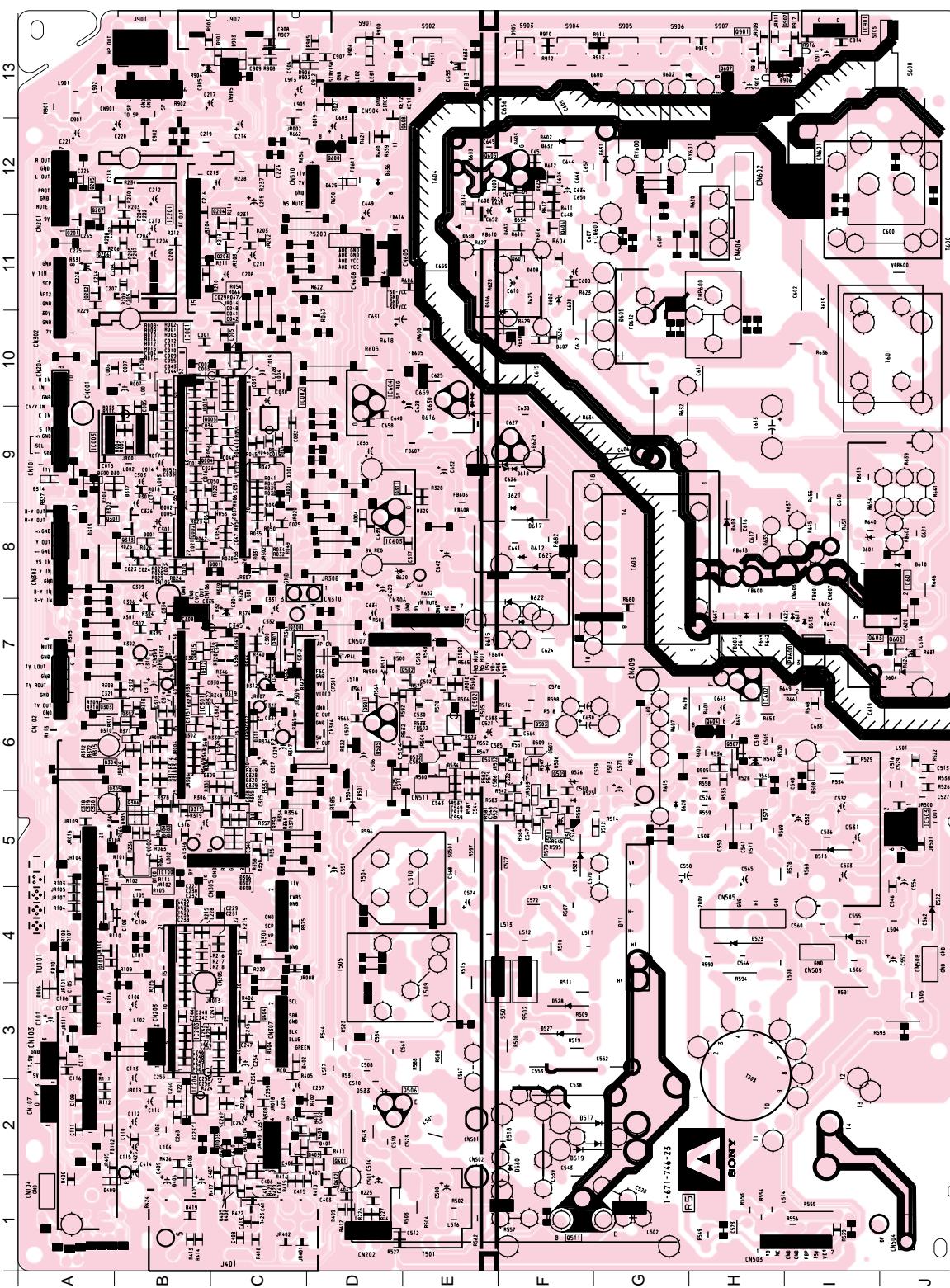
A [SYSTEM CONTROLLER, Y/C JUNGLE,
DEFLECTION, TUVIF, FRONT AMP, POWER SUPPLY]

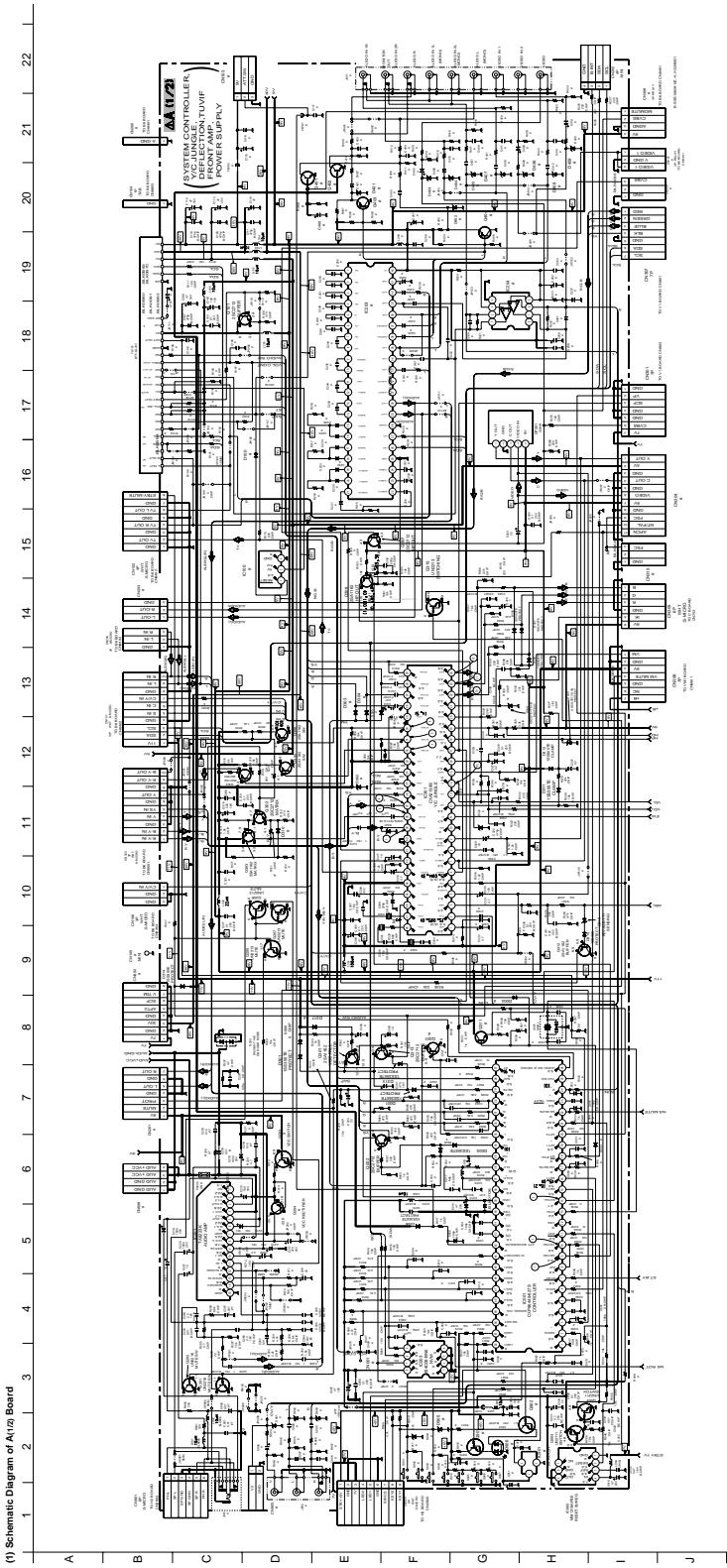
PRINTED WIRING BOARD

- A Board -

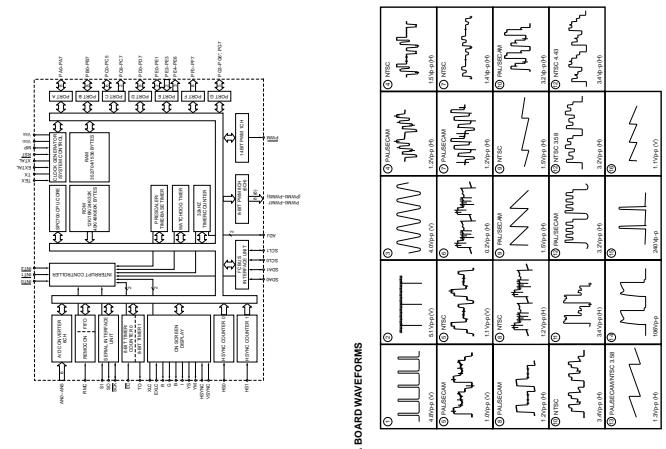
IC	DIODE	D533	D-2	E-6	G-13
		D534	B-8	I-8	D601
C001	B-10	D001	B-8	D601	G-13
C002	C-10	D002	B-8	D602	G-13
C003	A-9	D003	C-9	D603	F-11
C100	B-11	D004	D-8	D604	J-7
B-2	B-12	D005	B-8	D605	G-10
C203	C-12	D006	A-3	D606	E-11
C204	B-13	D007	B-5	D607	F-10
C301	E-6	D203	C-11	D608	F-11
C502	D-7	D300	A-9	D609	H-8
C503	I-8	D301	B-9	D610	J-8
B-8	H-7	D302	B-6	D611	I-7
B-5	I-10	D303	B-5	D612	F-8
B-11	H-7	D304	B-5	D613	I-7
B-10	H-7	D305	B-5	D614	H-7
B-11	H-7	D306	C-5	D615	E-7
B-12	H-7	D307	C-5	D616	E-9
B-13	H-7	D308	B-5	D617	F-9
B-14	H-7	D309	B-6	D618	F-9
B-15	H-7	D310	A-6	D620	D-8
B-16	H-7	D311	C-6	D621	F-9
B-17	H-7	D312	C-6	D622	F-8
B-18	H-7	D313	A-8	D623	F-12
B-19	H-7	D314	B-7	D624	F-12
B-20	H-7	D315	B-7	D625	D-12
B-21	H-7	D316	C-7	D626	F-8
B-22	H-7	D317	B-9	D627	F-8
B-23	H-7	D318	A-9	D628	G-5
B-24	H-7	D319	C-7	D629	F-9
B-25	H-7	D320	C-6	D630	E-10
B-26	H-7	D321	B-6	D631	G-12
B-27	H-7	D322	B-6	D632	F-12
B-28	H-7	D401	D-2	D633	E-12
B-29	H-7	D402	C-3	D634	F-11
B-30	H-7	D403	B-2	D635	F-12
B-31	H-7	D404	C-2	D636	D-12
B-32	H-7	D405	C-1	D637	F-11
B-33	H-7	D406	B-1	D638	E-11
B-34	H-7	D407	C-2	D639	C-13
B-35	H-7	D408	C-1	D640	D-13
B-36	H-7	D409	A-1	D643	C-13
B-37	H-7	D504	D-5	D644	D-13
B-38	H-7	D505	H-6	D645	F-13
B-39	H-7	D506	F-6	D646	I-13
B-40	H-7	D507	F-6	D647	I-13
B-41	H-7	D508	I-5	D648	I-7
B-42	H-7	D509	F-6	D649	H-6
B-43	H-7	D510	F-5	D650	F-2
B-44	H-7	D511	F-5	D651	F-2
B-45	H-7	D512	G-5	D652	F-5
B-46	H-7	D513	I-5	D653	H-4
B-47	H-7	D514	H-4	D654	F-5
B-48	H-7	D515	F-2	D655	F-6
B-49	H-7	D516	F-2	D656	F-3
B-50	H-7	D517	F-2	D657	E-12
B-51	H-7	D518	F-2	D658	F-11
B-52	H-7	D519	F-2	D659	F-3
B-53	H-7	D520	E-5	D660	F-5
B-54	H-7	D521	I-4	D661	H-3
B-55	H-7	D522	J-4	D662	H-4
B-56	H-7	D523	H-4	D663	H-3
B-57	H-7	D524	F-2	D664	E-6
B-58	H-7	D525	F-5	D665	E-6
B-59	H-7	D526	F-6	D666	E-6
B-60	H-7	D527	F-3	D667	E-6
B-61	H-7	D528	F-3	D668	E-6
B-62	H-7	D529	F-5	D669	E-6

NOTE: The circuit indicated at left contains high voltage of over 600 Vp-p. Please pay attention when inspecting or repairing it to prevent an electric shock.





A BOARD IC001 CRP649-427S

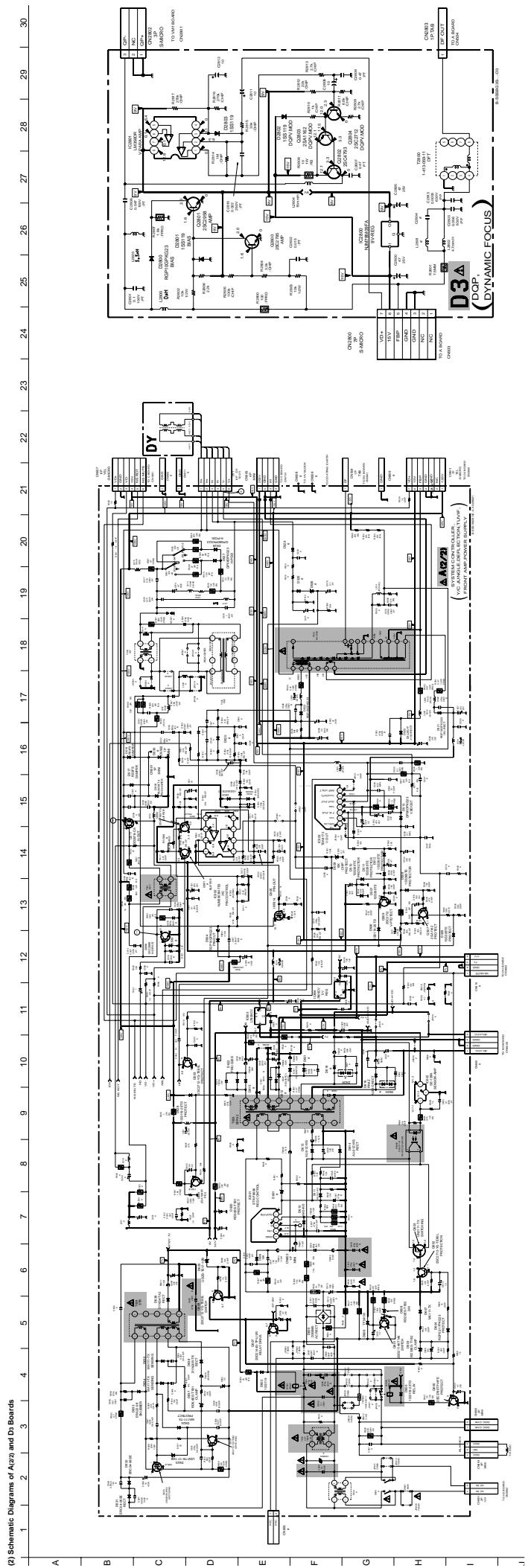


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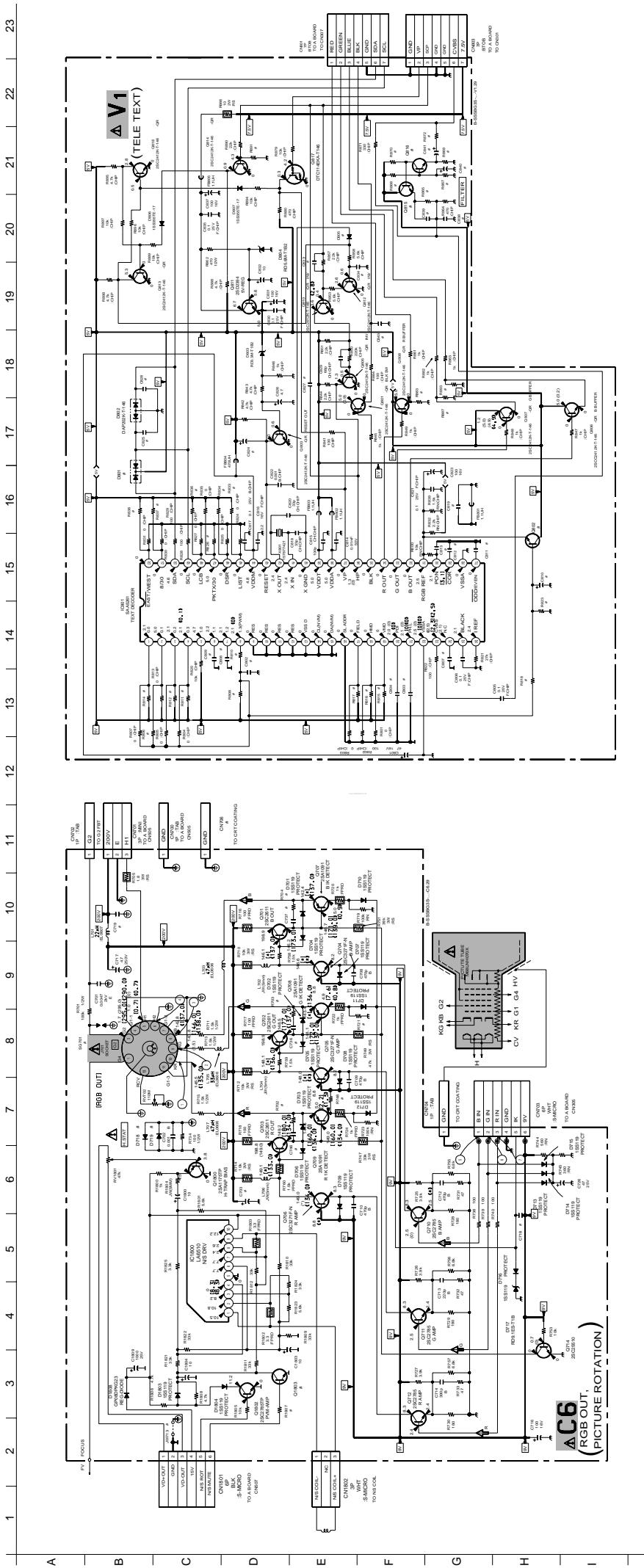
- 50 -

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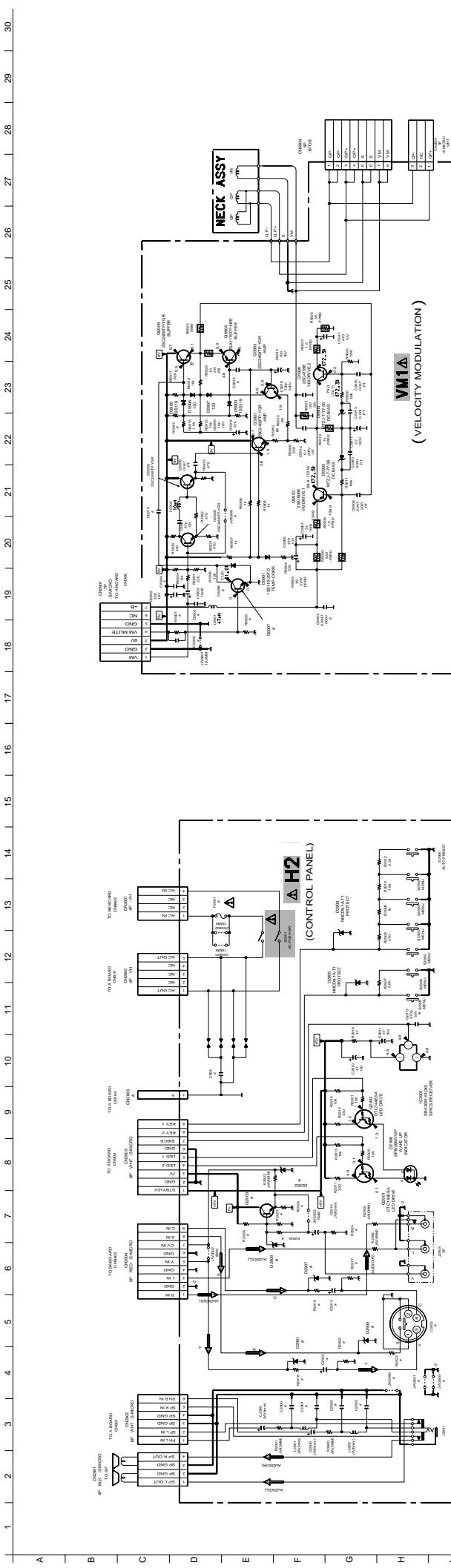
- 52 -



(3) Schematic Diagrams of C6 and V1 Boards



(4) Schematic Diagrams of H₂ and VM₁ Boards

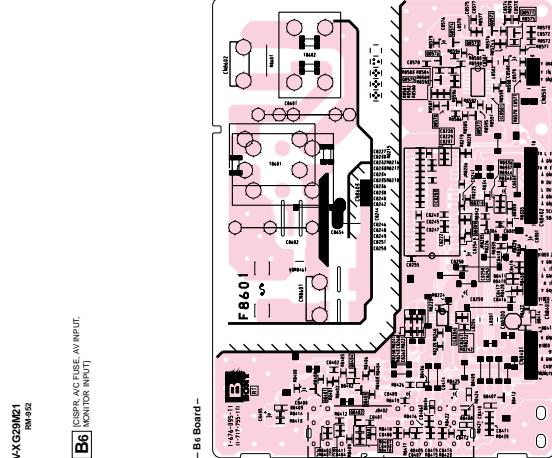


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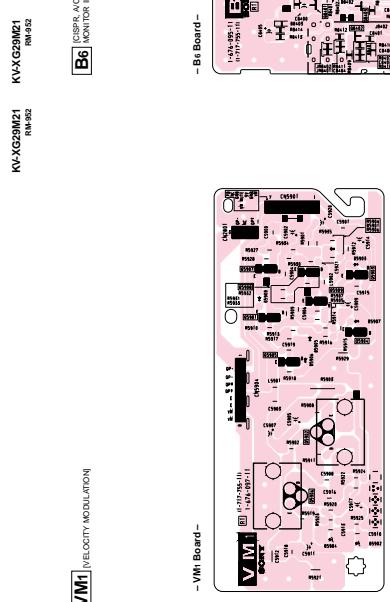
- 64 -

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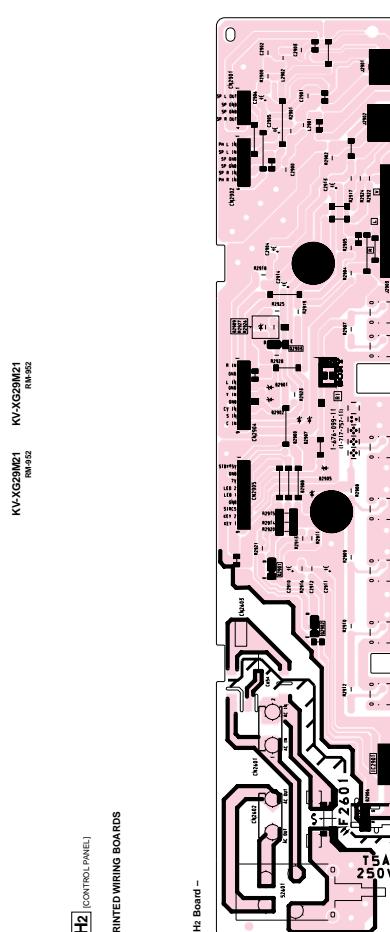
- 66 -



- 70 -

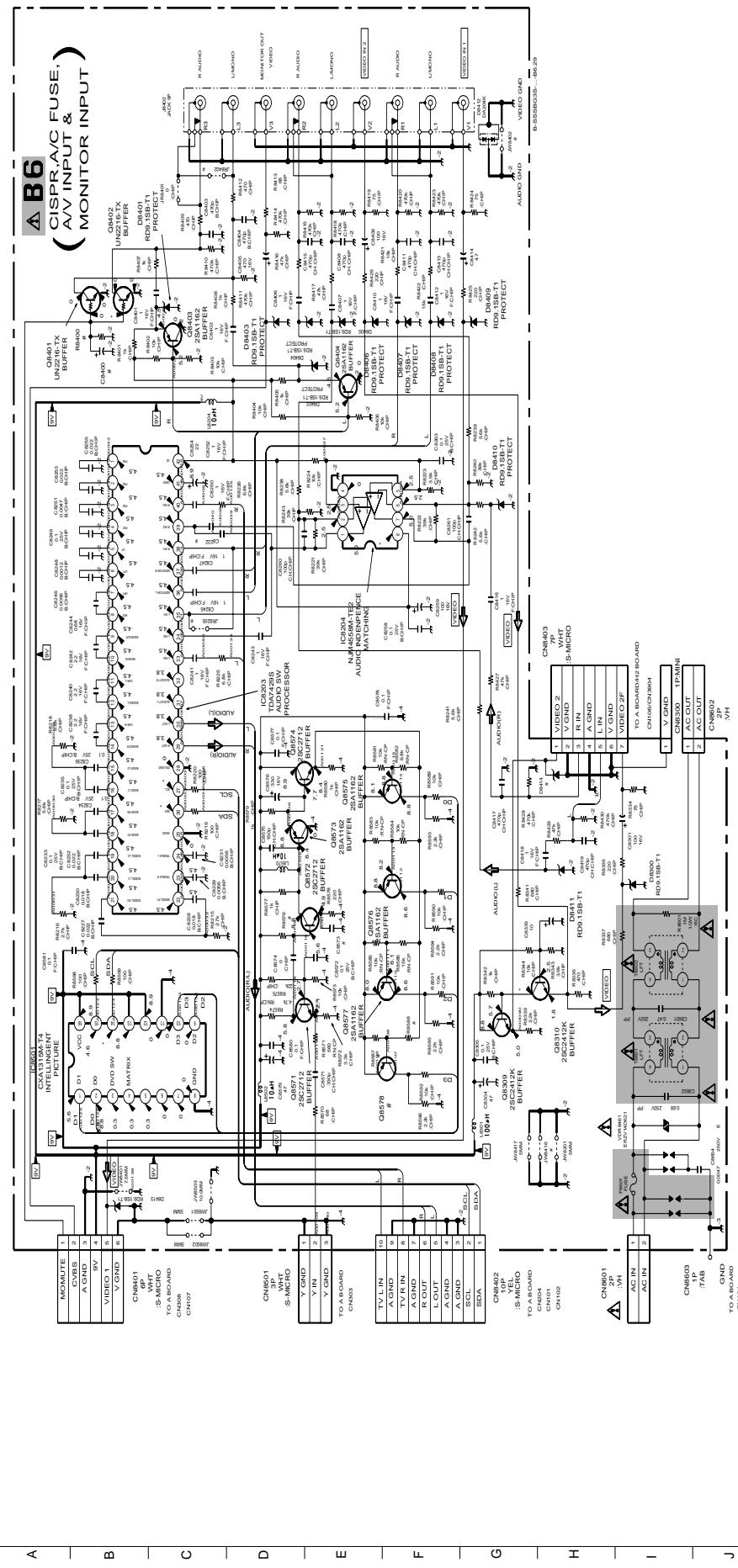


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(5) Schematic Diagram of B6



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- 72 -

- 73 -

SECTION 6

EXPLODED VIEWS

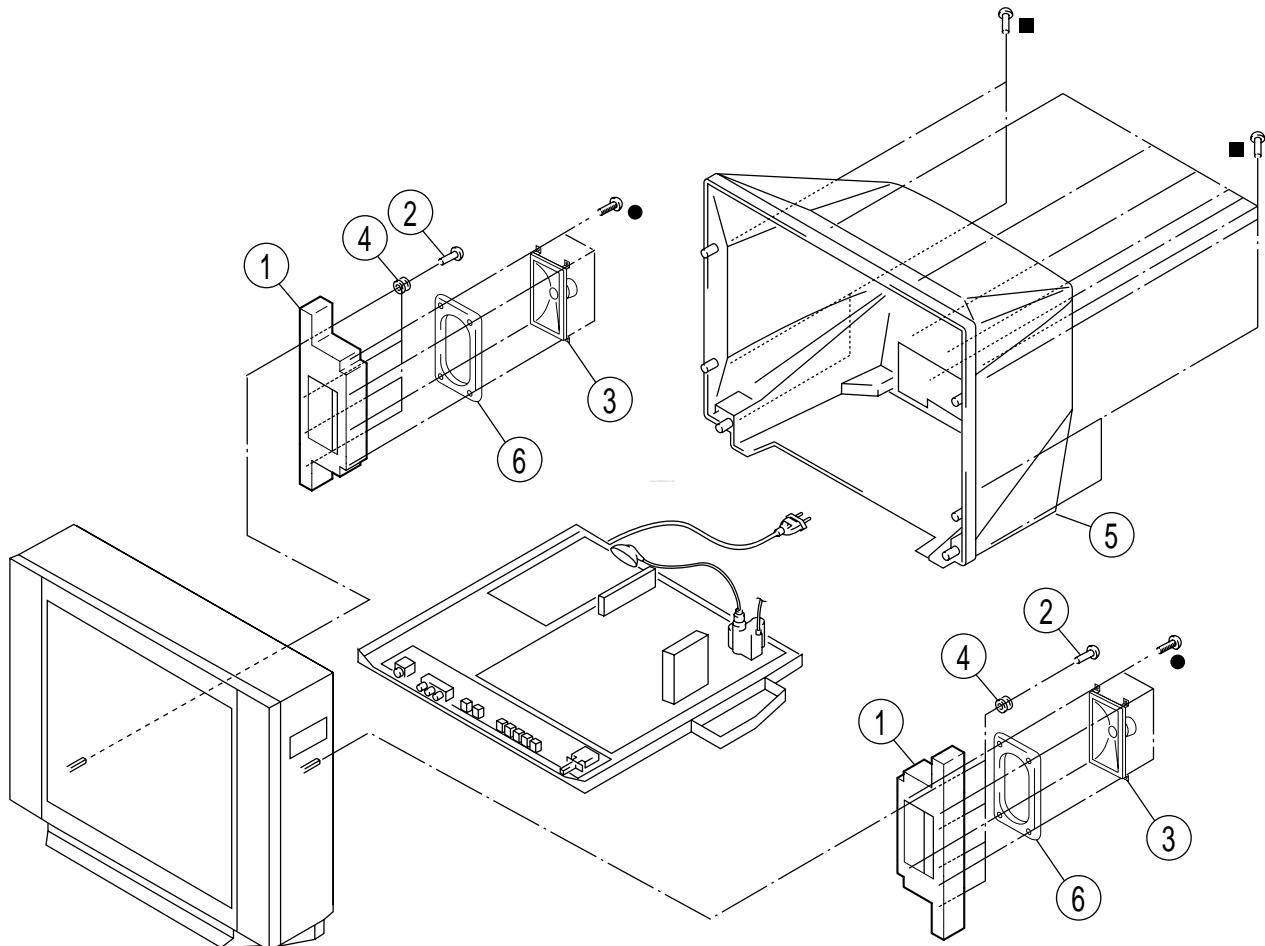
NOTE:

- 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.

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

6-1. SPEAKER BRACKET

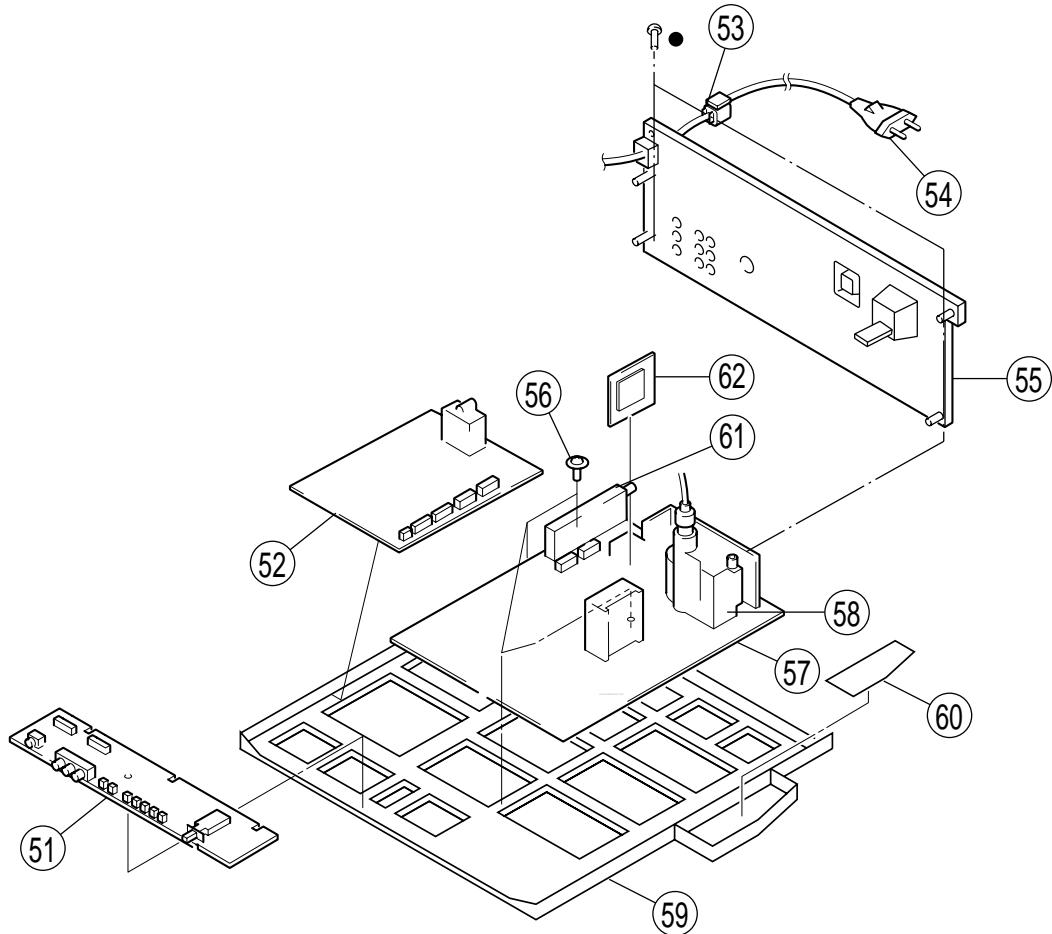
- : 7-685-663-71 SCREW +BVTP 4 × 16
 ●: 7-685-648-71 SCREW +BVTP 3 × 12



<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
1	* 4-071-045-02	BRACKET, SPEAKER	
2	4-054-981-01	SCREW, STEP TAPPING	
3	1-529-563-11	SPEAKER (15X6.5CM)	
4	* 4-379-189-11	CUSHION, SPEAKER	
5	\triangle 4-065-506-02	COVER, REAR	
6	* 4-069-797-01	CUSHION, SPEAKER (S)	

6-2. CHASSIS

●: 7-685-648-71 SCREW BVTP 3×12

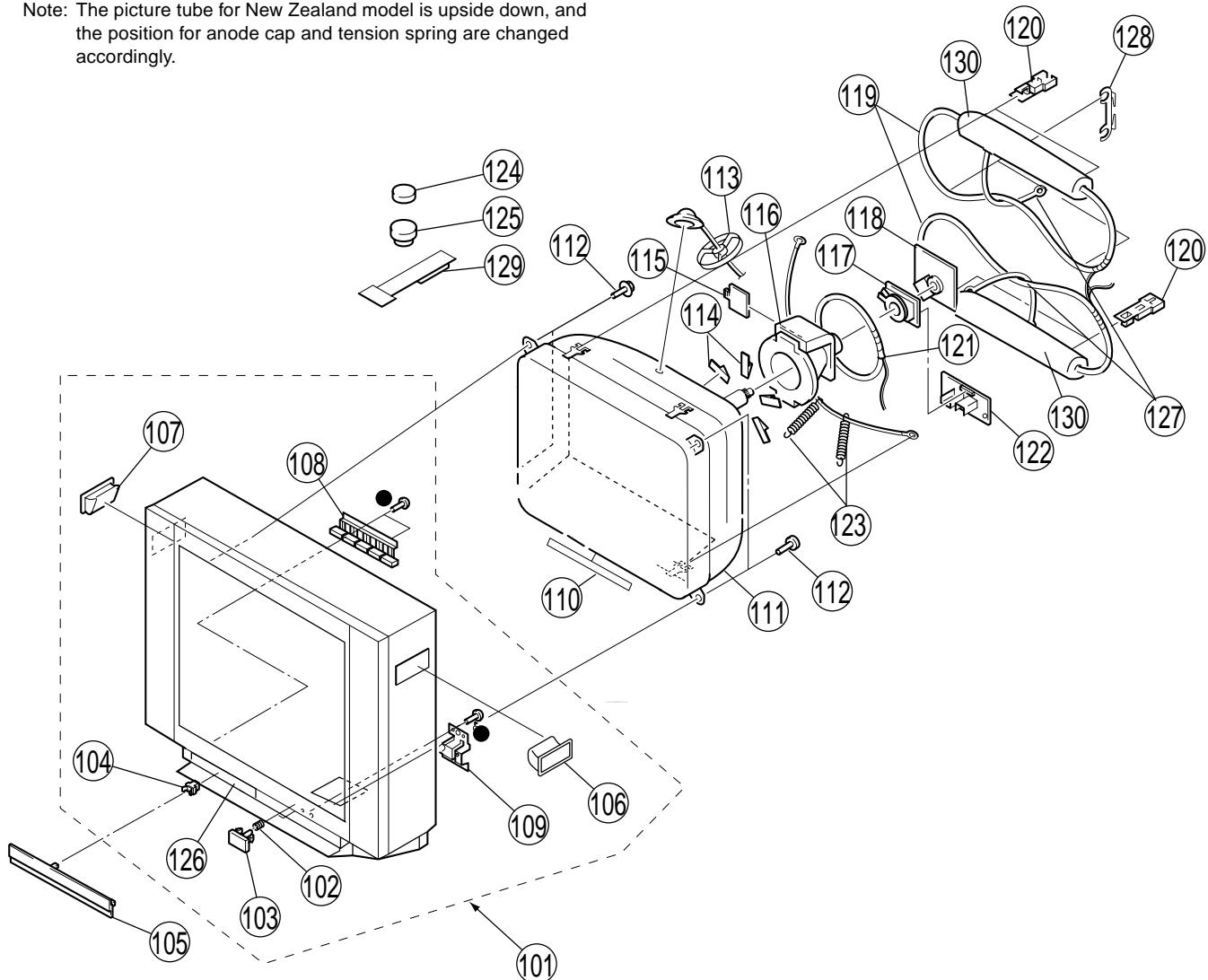


<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
51	* A-1372-742-A	H2 BOARD MOUNTED	
52	* A-1136-081-A	B6 BOARD COMPLETE	
53	4-022-115-00	HOLDER, AC CORD	
54	△ 1-574-385-21	CORD, POWER (WITH CONNECTOR) 7.5A/250V	
55	4-066-684-72	BRACKET, TERMINAL	
56	4-046-797-01	SCREW (3X12), (+)BVTAP	
57	* A-1299-250-A	A BOARD COMPLETE	
58	△ 1-453-297-21	TRANSFORMER ASSY, FLYBACK (NX-4009//M3I4)	
59	* 4-066-681-12	BRACKET, MAIN	
60	* A-1343-763-A	D3 BOARD MOUNTED	
61	8-598-449-10	TUNER, FSS BTF-LG433	
62	A-1347-155-A	V1 BOARD COMPLETE	

6-3. PICTURE TUBE

●: 7-685-648-71 SCREW BVTP 3 × 12

Note: The picture tube for New Zealand model is upside down, and the position for anode cap and tension spring are changed accordingly.



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	X-4037-903-1	BEZNET ASSY	102-104, 106-109, 126	116	8-451-494-31	DEFLECTION YOKE (Y29RSA-S)	
102	4-036-405-11	SPRING, COMPRESSION		117	8-453-011-11	NA299-M	
103	4-065-508-01	BUTTON, POWER		118	* A-1332-011-A	C6 BOARD MOUNTED	
104	4-047-464-01	CATCHER, PUSH		119	△ 1-419-323-11	COIL, DEGAUSSING	
105	4-071-047-11	DOOR, CONTROL		120	* 4-062-970-11	CLIP (29RSN), DGC	
106	4-070-957-01	HANDLE (R)		121	1-452-896-11	COIL, NA ROTATION (RT200)	
107	4-070-956-01	HANDLE (L)		122	* A-1342-519-A	VM1 BOARD MOUNTED	
108	4-065-509-01	BUTTON, CONTROL		123	4-369-318-61	SPRING, TENSION	
109	* 4-065-510-01	GUIDE, LIGHT		124	1-452-032-00	MAGNET,DISC	
110	4-072-569-11	SHEET, BLOTTING		125	1-452-014-11	CIRCULAR DISC MAGNET B	
111	△ 8-735-057-05	PICTURE TUBE (M68LNH070X)		126	4-032-761-01	SHAFT (S), DOOR	
112	4-046-765-12	SCREW, TAPPING 7+CROWN WASHER		127	4-068-028-32	BAND, DGC	
113	* 3-704-372-11	HOLDER, HV CABLE		128	4-064-883-03	HOLDER, DGC	
114	4-046-600-11	SPACER, DY		129	X-4387-214-3	PERMALOY ASSY, CORRECTION	
115	2-163-920-01	PLATE, TLH CORRECTION		130	4-063-935-21	CUSHION (50 X 550)DGC	

A

NOTE:

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

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

SECTION 7

ELECTRICAL PARTS LIST

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

- All resistors are in ohms
- F : nonflammable

CAPACITORS

- MF : μ F, PF : $\mu\mu$ F

COILS

- MMH : mH, UH : μ H

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	* A-1299-250-A	A BOARD COMPLETE	*****	C207	1-136-161-00	MYLAR	0.047UF 5.00% 50V
				C208	1-126-965-11	ELECT	22UF 20.00% 50V
				C209	1-126-965-11	ELECT	22UF 20.00% 50V
	4-382-854-11	SCREW (M3X10), P, SW (+)		C210	1-126-933-11	ELECT	100UF 20.00% 16V
	4-382-854-21	SCREW (M3X14), P, SW (+)		C211	1-126-941-11	ELECT	470UF 20.00% 25V
		<CAPACITOR>		C212	1-126-933-11	ELECT	100UF 20.00% 16V
				C213	1-126-933-11	ELECT	100UF 20.00% 16V
				C214	1-126-942-61	ELECT	1000UF 20.00% 25V
C004	1-163-001-11	CERAMIC CHIP	220PF	C215	1-126-942-61	ELECT	1000UF 20.00% 25V
C005	1-163-001-11	CERAMIC CHIP	220PF	C216	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
C006	1-164-004-11	CERAMIC CHIP	0.1UF				
C007	1-104-664-11	ELECT	47UF	C217	1-126-964-11	ELECT	10UF 20.00% 50V
C013	1-163-021-91	CERAMIC CHIP	0.01UF	C218	1-136-167-00	MYLAR	0.15UF 5.00% 50V
C014	1-104-664-11	ELECT	47UF	C219	1-136-167-00	MYLAR	0.15UF 5.00% 50V
C015	1-163-009-11	CERAMIC CHIP	0.001UF	C220	1-126-942-61	ELECT	1000UF 20.00% 25V
C016	1-163-243-11	CERAMIC CHIP	47PF	C221	1-126-964-11	ELECT	10UF 20.00% 50V
C017	1-163-113-00	CERAMIC CHIP	68PF	C223	1-126-965-11	ELECT	22UF 20.00% 50V
C019	1-104-664-11	ELECT	47UF	C224	1-163-133-00	CERAMIC CHIP	470PF 5.00% 50V
C022	1-163-227-11	CERAMIC CHIP	10PF	C225	1-109-982-11	CERAMIC CHIP	1UF 10.00% 10V
C023	1-163-227-11	CERAMIC CHIP	10PF	C226	1-109-982-11	CERAMIC CHIP	1UF 10.00% 10V
C024	1-163-227-11	CERAMIC CHIP	10PF	C264	1-164-505-11	CERAMIC CHIP	2.2UF 16V
C026	1-164-004-11	CERAMIC CHIP	0.1UF	C265	1-164-505-11	CERAMIC CHIP	2.2UF 16V
C027	1-164-004-11	CERAMIC CHIP	0.1UF	C301	1-126-935-11	ELECT	470UF 20.00% 16V
C028	1-163-037-11	CERAMIC CHIP	0.022UF	C302	1-163-005-11	CERAMIC CHIP	470PF 10.00% 50V
C030	1-126-965-11	ELECT	22UF	C303	1-126-964-11	ELECT	10UF 20.00% 50V
C031	1-164-004-11	CERAMIC CHIP	0.1UF	C304	1-126-967-11	ELECT	47UF 20.00% 50V
C032	1-107-823-11	CERAMIC CHIP	0.47UF	C305	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C034	1-163-031-11	CERAMIC CHIP	0.01UF	C306	1-163-233-11	CERAMIC CHIP	18PF 5.00% 50V
			50V	C307	1-163-233-11	CERAMIC CHIP	18PF 5.00% 50V
C041	1-163-251-11	CERAMIC CHIP	100PF	C308	1-163-259-91	CERAMIC CHIP	220PF 5.00% 50V
C042	1-163-251-11	CERAMIC CHIP	100PF	C309	1-126-957-11	ELECT	0.22UF 20.00% 50V
C044	1-163-251-11	CERAMIC CHIP	100PF	C310	1-126-963-11	ELECT	4.7UF 20.00% 50V
C047	1-163-251-11	CERAMIC CHIP	100PF	C311	1-126-964-11	ELECT	10UF 20.00% 50V
C055	1-163-251-11	CERAMIC CHIP	100PF	C312	1-164-346-11	CERAMIC CHIP	1UF 16V
C103	1-164-004-11	CERAMIC CHIP	0.1UF	C313	1-164-346-11	CERAMIC CHIP	1UF 16V
C104	1-104-665-11	ELECT	100UF	C315	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C107	1-163-005-11	CERAMIC CHIP	470PF	C316	1-126-934-11	ELECT	220UF 20.00% 16V
C108	1-104-664-11	ELECT	47UF	C317	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C109	1-163-005-11	CERAMIC CHIP	470PF	C318	1-163-031-11	CERAMIC CHIP	0.01UF 50V
C110	1-163-005-11	CERAMIC CHIP	470PF	C319	1-163-031-11	CERAMIC CHIP	0.01UF 50V
C111	1-163-005-11	CERAMIC CHIP	470PF	C320	1-163-031-11	CERAMIC CHIP	0.01UF 50V
C112	1-104-664-11	ELECT	47UF	C322	1-163-005-11	CERAMIC CHIP	470PF 10.00% 50V
C113	1-104-664-11	ELECT	47UF	C323	1-126-965-11	ELECT	22UF 20.00% 50V
C114	1-126-967-11	ELECT	47UF	C324	1-163-017-00	CERAMIC CHIP	0.0047UF 10.00% 50V
C202	1-163-021-91	CERAMIC CHIP	0.01UF	C325	1-126-960-11	ELECT	1UF 20.00% 50V
C203	1-163-021-91	CERAMIC CHIP	0.01UF	C327	1-126-965-11	ELECT	22UF 20.00% 50V
C204	1-136-161-00	MYLAR	0.047UF	C328	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C205	1-164-182-11	CERAMIC CHIP	0.0033UF	C329	1-126-965-11	ELECT	22UF 20.00% 50V
C206	1-164-182-11	CERAMIC CHIP	0.0033UF				

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

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C330	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	C576	1-130-495-00	MYLAR	0.1UF 5.00% 50V
C331	1-126-963-11	ELECT	4.7UF 20.00% 50V	C577	1-106-395-00	MYLAR	0.15UF 10.00% 200V
C332	1-126-963-11	ELECT	4.7UF 20.00% 50V	C582	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C335	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	C584	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V
C336	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	C586	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V
C337	1-126-961-11	ELECT	2.2UF 20.00% 50V	C600	\triangle 1-104-705-11	MYLAR	0.1UF 20.00% 250V
C338	1-163-017-00	CERAMIC CHIP	0.0047UF 10.00% 50V	C602	\triangle 1-104-705-11	MYLAR	0.1UF 20.00% 250V
C341	1-115-340-11	CERAMIC CHIP	0.22UF 10.00% 25V	C603	1-104-664-11	ELECT	47UF 20.00% 25V
C342	1-163-259-91	CERAMIC CHIP	220PF 5.00% 50V	C604	1-163-009-11	CERAMIC CHIP	0.001UF 10.00% 50V
C502	1-163-145-00	CERAMIC CHIP	0.0015UF 5.00% 50V	C605	\triangle 1-119-886-51	CERAMIC	470PF 10.00% 250V
C503	1-126-964-11	ELECT	10UF 20.00% 50V	C606	\triangle 1-119-886-51	CERAMIC	470PF 10.00% 250V
C506	1-107-638-11	ELECT	33UF 20.00% 160V	C607	1-161-830-00	CERAMIC	0.0047UF 99% 500V
C507	1-161-830-00	CERAMIC	0.0047UF 500V	C608	1-161-830-00	CERAMIC	0.0047UF 99% 500V
C510	1-102-112-00	CERAMIC	330PF 10.00% 50V	C609	1-126-968-11	ELECT	100UF 20.00% 50V
C512	1-163-989-11	CERAMIC CHIP	0.033UF 10.00% 25V	C610	1-126-964-11	ELECT	10UF 20.00% 50V
C513	1-163-263-11	CERAMIC CHIP	330PF 5.00% 50V	C611	1-161-830-00	CERAMIC	0.0047UF 99% 500V
C514	1-106-383-00	MYLAR	0.047UF 10.00% 200V	C612	1-161-830-00	CERAMIC	0.0047UF 99% 500V
C517	1-164-182-11	CERAMIC CHIP	0.0033UF 10.00% 50V	C613	1-125-906-11	ELECT	560UF 20.00% 450V
C518	1-104-665-11	ELECT	100UF 20.00% 10V	C614	1-126-964-11	ELECT	10UF 20.00% 50V
C519	1-102-212-00	CERAMIC	820PF 10.00% 500V	C615	\triangle 1-119-886-51	CERAMIC	470PF 10.00% 250V
C521	1-126-934-11	ELECT	220UF 20.00% 16V	C616	1-130-202-00	FILM	0.022UF 5.00% 400V
C522	1-126-933-11	ELECT	100UF 20.00% 16V	C617	1-107-792-11	CERAMIC	100PF 5.00% 1KV
C523	1-102-002-00	CERAMIC	680PF 10.00% 500V	C618	1-125-893-11	FILM	680PF 3.00% 1.5KV
C524	1-126-967-11	ELECT	47UF 20.00% 50V	C619	\triangle 1-119-886-51	CERAMIC	470PF 10.00% 250V
C526	1-130-495-00	MYLAR	0.1UF 5.00% 50V	C620	1-163-133-00	CERAMIC CHIP	470PF 5.00% 50V
C527	1-102-820-00	CERAMIC	330PF 5.00% 50V	C621	1-102-114-00	CERAMIC	470PF 10.00% 50V
C528	1-162-116-00	CERAMIC	680PF 10.00% 2KV	C622	1-102-119-00	CERAMIC	0.0015UF 10.00% 50V
C530	1-137-372-11	MYLAR	0.022UF 5.00% 50V	C623	1-104-665-11	ELECT	100UF 20.00% 25V
C531	1-107-903-11	ELECT	2.2UF 20.00% 50V	C624	1-125-772-91	CERAMIC	1500PF 10.00% 2KV
C532	1-126-941-11	ELECT	470UF 20.00% 25V	C625	1-102-002-00	CERAMIC	680PF 10.00% 500V
C533	1-126-941-11	ELECT	470UF 20.00% 25V	C626	1-102-002-00	CERAMIC	680PF 10.00% 500V
C536	1-136-165-00	MYLAR	0.1UF 5.00% 50V	C628	1-126-942-61	ELECT	1000UF 20.00% 25V
C537	1-126-969-11	ELECT	220UF 20.00% 50V	C629	1-126-964-11	ELECT	10UF 20.00% 50V
C538	1-127-717-11	CAP, METALIZED PP FILM	19000PF 19000PF	C630	1-125-494-11	ELECT(BLOCK)	560UF 20.00% 160V
C539	1-129-723-00	FILM	0.056UF 5.00% 630V	C632	1-128-339-11	ELECT	2200UF 20.00% 16V
C540	1-136-171-00	MYLAR	0.33UF 5.00% 50V	C633	1-104-999-11	MYLAR	0.1UF 10.00% 200V
C546	1-165-319-11	CERAMIC CHIP	0.1UF 50V	C634	1-126-933-11	ELECT	100UF 20.00% 16V
C549	1-163-017-00	CERAMIC CHIP	0.0047UF 10.00% 50V	C635	1-104-665-11	ELECT	100UF 20.00% 10V
C550	1-106-220-00	MYLAR	0.1UF 10.00% 100V	C636	1-104-760-11	CERAMIC CHIP	0.047UF 10.00% 50V
C551	1-126-960-11	ELECT	1UF 20.00% 50V	C641	1-102-002-00	CERAMIC	680PF 10.00% 500V
C552	1-162-116-00	CERAMIC	680PF 10.00% 2KV	C642	1-126-943-11	ELECT	2200UF 20.00% 25V
C553	1-162-116-00	CERAMIC	680PF 10.00% 2KV	C643	1-104-665-11	ELECT	100UF 20.00% 10V
C554	1-137-417-11	MYLAR	0.0047UF 10.00% 200V	C644	1-104-331-11	CERAMIC	0.0022UF 10.00% 1KV
C556	1-126-941-11	ELECT	470UF 20.00% 25V	C645	1-137-605-11	MYLAR	0.01UF 10.00% 250V
C557	1-126-941-11	ELECT	470UF 20.00% 25V	C646	1-107-679-91	ELECT	10UF 20.00% 450V
C558	1-123-024-21	ELECT	33UF 160V	C647	1-163-275-11	CERAMIC CHIP	0.001UF 5.00% 50V
C560	1-102-228-00	CERAMIC	470PF 10.00% 500V	C649	1-126-940-11	ELECT	330UF 20.00% 25V
C561	1-129-898-00	FILM	0.0022UF 5.00% 630V	C650	1-163-275-11	CERAMIC CHIP	0.001UF 5.00% 50V
C562	1-102-228-00	CERAMIC	470PF 10.00% 500V	C651	1-163-133-00	CERAMIC CHIP	470PF 5.00% 50V
C564	1-163-038-91	CERAMIC CHIP	0.1UF 25V	C652	1-126-965-11	ELECT	22UF 20.00% 50V
C565	1-107-655-11	ELECT	47UF 20.00% 250V	C653	1-104-664-11	ELECT	47UF 20.00% 25V
C566	1-102-244-00	CERAMIC	220PF 10.00% 500V	C655	\triangle 1-119-886-51	CERAMIC	470PF 10.00% 250V
C567	1-115-520-11	FILM	0.68UF 5.00% 250V	C657	1-101-821-00	CERAMIC	0.0022UF 500V
C568	1-102-228-00	CERAMIC	470PF 10.00% 500V	C901	1-136-153-00	MYLAR	0.01UF 5.00% 50V
C570	1-115-522-11	FILM	1UF 5.00% 250V	C902	1-136-153-00	MYLAR	0.01UF 5.00% 50V
C572	1-117-661-21	FILM	0.15UF 5.00% 250V	C912	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C573	1-106-387-00	MYLAR	0.068UF 10.00% 200V	C913	1-104-665-11	ELECT	100UF 20.00% 10V
C574	1-104-709-11	ELECT	4.7UF 160V				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<CONNECTOR>							
CN101	* 1-764-333-11	PLUG, CONNECTOR 10P		D519	8-719-312-71	DIODE RS3FS	
CN102	* 1-564-507-11	PLUG, CONNECTOR 4P		D521	8-719-302-43	DIODE RGP10GPKG23	
CN104	1-695-915-11	TAB (CONTACT)		D522	8-719-028-45	DIODE D2L20U-F	
CN106	* 1-564-506-11	PLUG, CONNECTOR 3P		D523	8-719-302-43	DIODE RGP10GPKG23	
CN202	* 1-508-847-00	PIN, CONNECTOR 4P		D527	8-719-908-03	DIODE GP08DPKG23	
CN301	* 1-774-813-11	CONNECTOR, BOARD TO BOARD 7P		D528	8-719-908-03	DIODE GP08DPKG23	
CN303	* 1-564-506-11	PLUG, CONNECTOR 3P		D531	8-719-988-61	DIODE ISS355TE-17	
CN305	* 1-564-509-11	PLUG, CONNECTOR 6P		D532	8-719-988-61	DIODE ISS355TE-17	
CN307	* 1-774-813-11	CONNECTOR, BOARD TO BOARD 7P		D534	8-719-988-61	DIODE ISS355TE-17	
CN501	* 1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		D600	8-719-911-19	DIODE ISS119-25TD	
CN502	* 1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		D602	8-719-911-19	DIODE ISS119-25TD	
CN503	* 1-564-510-11	PLUG, CONNECTOR 7P		D603	8-719-150-92	DIODE RD33ES-T1B2	
CN504	1-695-915-11	TAB (CONTACT)		D604	8-719-028-72	DIODE RGP02-17PKG23	
CN505	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		D605	8-719-510-22	DIODE D3SB60	
CN601	* 1-580-843-11	PIN, CONNECTOR (POWER)		D606	8-719-108-18	DIODE TF541M	
CN602	* 1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		D607	8-719-073-01	DIODE MA111-TX	
CN603	* 1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		D608	8-719-110-53	DIODE RD20ES-T1B2	
CN604	* 1-691-134-11	PIN, CONNECTOR (PC BOARD) 2P		D609	8-719-311-31	DIODE BYV26E/23	
CN901	* 1-564-509-11	PLUG, CONNECTOR 6P		D610	8-719-043-76	DIODE AK04V0	
CN904	* 1-564-512-11	PLUG, CONNECTOR 9P		D611	8-719-046-74	DIODE AU-01Z-WS	
<COMPOSITION CIRCUIT BLOCK>							
CP301	1-418-807-11	FILTER BLOCK, COMB		D613	8-719-046-74	DIODE AU-01Z-WS	
<DIODE>							
D001	8-719-988-61	DIODE ISS355TE-17		D614	8-719-046-74	DIODE AU-01Z-WS	
D005	8-719-988-61	DIODE ISS355TE-17		D615	8-719-074-35	DIODE RU4AM-T4	
D006	8-719-988-61	DIODE ISS355TE-17		D616	8-719-067-18	DIODE RN4Z	
D203	8-719-914-42	DIODE DA204K-T-146		D617	8-719-073-84	DIODE 31DQ06-FC5	
D300	1-216-295-91	SHORT 0		D620	8-719-110-72	DIODE RD30ES-T1B1	
D301	8-719-988-61	DIODE ISS355TE-17		D623	8-719-978-65	DIODE Udz-TE-17-15B	
D306	8-719-988-61	DIODE ISS355TE-17		D624	8-719-073-01	DIODE MA111-(K8).S0	
D307	8-719-988-61	DIODE ISS355TE-17		D625	8-719-977-28	DIODE UDZS-TE17-10B	
D308	8-719-988-61	DIODE ISS355TE-17		D627	8-719-073-84	DIODE 31DQ06-FC5	
D309	8-719-069-54	DIODE UDZS-TE17-5.1B		D628	8-719-911-19	DIODE ISS119-25TD	
D311	8-719-988-61	DIODE ISS355TE-17		D631	8-719-068-00	DIODE ERC04-06SE	
D312	8-719-988-61	DIODE ISS355TE-17		D632	8-719-068-00	DIODE ERC04-06SE	
D313	8-719-988-61	DIODE ISS355TE-17		D633	8-719-948-45	DIODE ERA22-08TP3	
D314	8-719-988-61	DIODE ISS355TE-17		D634	8-719-073-01	DIODE MA111-(K8).S0	
D315	8-719-988-61	DIODE ISS355TE-17		D635	8-719-073-01	DIODE MA111-(K8).S0	
D316	8-719-037-06	DIODE RD7.5SB1-T1		D636	8-719-510-02	DIODE D1NS4-TA2	
D320	8-719-069-60	DIODE UDZS-TE17-9.1B		D637	8-719-109-96	DIODE RD6.8ES-T1B1	
D321	8-719-069-60	DIODE UDZS-TE17-9.1B		D638	8-719-510-48	DIODE D1N20R-TR	
<CONNECTOR>							
DY1 * 1-580-798-11 CONNECTOR PIN (DY) 6P							
<FERRITE BEAD>							
FB501	1-410-397-21	FERRITE		FB603	1-410-397-21	FERRITE	1.1UH
FB502	1-410-397-21	FERRITE		FB604	1-412-911-31	FERRITE	1.1UH
FB600	1-410-397-21	FERRITE		FB606	1-412-911-31	FERRITE	1.1UH
FB601	1-410-397-21	FERRITE		FB608	1-412-911-31	FERRITE	1.1UH
FB602	1-410-397-21	FERRITE		FB611	1-410-397-21	FERRITE	1.1UH
D506	8-719-911-19	DIODE ISS119-25TD					
D507	8-719-988-61	DIODE ISS355TE-17					
D508	8-719-988-61	DIODE ISS355TE-17					
D509	1-216-073-00	RES-CHIP 10K	5%	D510	8-719-988-61	DIODE ISS355TE-17	
D511	8-719-988-61	DIODE ISS355TE-17		D512	8-719-988-61	DIODE ISS355TE-17	
D513	8-719-908-03	DIODE GP08DPKG23		D514	8-719-988-61	DIODE RS3FS	
D517	8-719-074-35	DIODE RU4AM-T4		D518	8-719-312-71	DIODE RS3FS	

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

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
FB612	1-410-397-21	FERRITE	1.1UH	L503	1-412-525-31	INDUCTOR	10UH
FB613	1-410-397-21	FERRITE	1.1UH	L504	1-412-525-31	INDUCTOR	10UH
FB615	1-412-911-31	FERRITE	0UH	L507	1-459-111-00	INDUCTOR	10MH
			<IC>	L511	1-406-977-71	INDUCTOR	0UH
IC001	8-752-910-12	IC CXP86449-627S		L513	1-412-551-31	INDUCTOR	1.5MH
IC002	8-759-371-21	IC MM1319AFBE		L515	1-459-104-00	COIL, WITH CORE	
IC003	8-759-672-78	IC M24C08-BN6		L518	1-414-187-11	INDUCTOR	47UH
IC201	8-759-336-30	IC TA8223K		L601	1-412-527-11	INDUCTOR	15UH
IC301	8-752-090-41	IC CXA2139S		L901	1-408-603-31	INDUCTOR	10UH
IC502	8-759-700-07	IC NJM2903M-TE2		L902	1-408-603-31	INDUCTOR	10UH
IC503	8-759-980-58	IC TDA8172		L905	1-414-856-11	INDUCTOR	10UH
IC601	8-749-014-48	IC STR-F6656					<PHOTO COUPLER>
IC602	8-749-920-61	IC SE-135N		PH600 Δ	8-749-924-35	PHOTO COUPLER ON3171-R	
IC603	8-759-701-59	IC NJM78M09FA					
IC604	8-759-231-53	IC TA7805S					
			<CHIP CONDUCTOR>	PS200	1-532-675-21	LINK, IC 1.5A/150V	
JR001	1-216-295-91	SHORT	0				<TRANSISTOR>
JR002	1-216-295-91	SHORT	0	Q002	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
JR004	1-216-295-91	SHORT	0	Q003	8-729-424-08	TRANSISTOR UN2111	
JR005	1-216-295-91	SHORT	0	Q004	8-729-421-22	TRANSISTOR UN2211	
JR006	1-216-295-91	SHORT	0	Q101	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
JR007	1-216-295-91	SHORT	0	Q201	8-729-424-67	TRANSISTOR UN2216-TX	
JR008	1-216-295-91	SHORT	0				
JR010	1-216-295-91	SHORT	0	Q202	8-729-424-67	TRANSISTOR UN2216	
JR012	1-216-295-91	SHORT	0	Q205	8-729-421-19	TRANSISTOR UN2213	
JR014	1-216-295-91	SHORT	0	Q206	8-729-421-19	TRANSISTOR UN2213	
JR015	1-216-295-91	SHORT	0	Q207	8-729-421-19	TRANSISTOR UN2213	
JR016	1-216-295-91	SHORT	0	Q301	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
JR019	1-216-295-91	SHORT	0				
JR102	1-216-295-91	SHORT	0	Q302	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
JR109	1-216-295-91	SHORT	0	Q303	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
JR202	1-216-295-91	SHORT	0	Q304	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
JR204	1-216-295-91	SHORT	0	Q305	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
JR309	1-216-295-91	SHORT	0	Q306	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
JR500	1-216-295-91	SHORT	0				
JR501	1-216-295-91	SHORT	0	Q307	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
JR502	1-216-295-91	SHORT	0	Q308	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
JR503	1-216-295-91	SHORT	0	Q312	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
JR600	1-216-295-91	SHORT	0	Q313	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
				Q315	8-729-421-19	TRANSISTOR UN2213	
			<COIL>				
L002	1-414-856-11	INDUCTOR	10UH	Q501	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
L003	1-414-180-11	INDUCTOR	3.3UH	Q502	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
L005	1-414-233-22	INDUCTOR CHIP	0UH	Q503	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
L101	1-414-856-11	INDUCTOR	10UH	Q505	8-729-931-45	TRANSISTOR IRF614	
L102	1-414-856-11	INDUCTOR	10UH	Q506	8-729-119-80	TRANSISTOR 2SC2688-LK	
L103	1-414-856-11	INDUCTOR	10UH				
L104	1-414-856-11	INDUCTOR	10UH	Q507	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
L105	1-414-856-11	INDUCTOR	10UH	Q509	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
L301	1-414-189-31	INDUCTOR	100UH	Q511	8-729-048-07	TRANSISTOR 2SD2578-CA	
L302	1-414-185-41	INDUCTOR	22UH	Q600	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
L501	1-412-525-31	INDUCTOR	10UH	Q601	8-729-023-22	TRANSISTOR 2SD2114KT146	
L502	1-422-613-11	COIL, AIR CORE					
				Q602	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
				Q603	8-729-424-08	TRANSISTOR UN2111	
				Q604	8-729-200-17	TRANSISTOR 2SA1091R-TPE2	
				Q605	8-729-044-30	TRANSISTOR 2SK2845-LB102	
				Q606	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	

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REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK	
Q607	8-729-922-37	TRANSISTOR	2SD2144S-TP-UVW			R203	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
Q608	8-729-230-49	TRANSISTOR	2SC2712-YG-TE85L			R204	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
<RESISTOR>												
R001	1-414-233-22	INDUCTOR	CHIP	0UH		R205	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	
R002	1-216-025-91	RES-CHIP		100	5%	1/10W	R206	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R003	1-216-073-00	RES-CHIP		10K	5%	1/10W	R207	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R004	1-216-025-91	RES-CHIP		100	5%	1/10W	R208	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R005	1-216-025-91	RES-CHIP		100	5%	1/10W	R209	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R008	1-216-065-91	RES-CHIP		4.7K	5%	1/10W	R210	1-216-031-00	RES-CHIP	180	5%	1/10W
R010	1-216-065-91	RES-CHIP		4.7K	5%	1/10W	R212	1-216-031-00	RES-CHIP	180	5%	1/10W
R011	1-216-065-91	RES-CHIP		4.7K	5%	1/10W	R225	1-216-033-00	RES-CHIP	220	5%	1/10W
R012	1-216-065-91	RES-CHIP		4.7K	5%	1/10W	R226	1-216-033-00	RES-CHIP	220	5%	1/10W
R013	1-216-065-91	RES-CHIP		4.7K	5%	1/10W	R227	1-216-033-00	RES-CHIP	220	5%	1/10W
R014	1-216-025-91	RES-CHIP		100	5%	1/10W	R228	1-249-389-11	CARBON	4.7	5%	1/4W
R015	1-216-025-91	RES-CHIP		100	5%	1/10W	R229	1-216-073-00	RES-CHIP	10K	5%	1/10W
R017	1-216-049-91	RES-CHIP		1K	5%	1/10W	R230	1-216-073-00	RES-CHIP	10K	5%	1/10W
R018	1-216-033-00	RES-CHIP		220	5%	1/10W	R231	1-216-295-91	SHORT	0		
R019	1-216-073-00	RES-CHIP		10K	5%	1/10W	R234	1-249-389-11	CARBON	4.7	5%	1/4W
R021	1-216-073-00	RES-CHIP		10K	5%	1/10W	R237	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R022	1-216-033-00	RES-CHIP		220	5%	1/10W	R301	1-216-073-00	RES-CHIP	10K	5%	1/10W
R024	1-216-063-91	RES-CHIP		3.9K	5%	1/10W	R302	1-216-295-91	SHORT	0		
R025	1-216-063-91	RES-CHIP		3.9K	5%	1/10W	R303	1-216-049-91	RES-CHIP	1K	5%	1/10W
R026	1-216-063-91	RES-CHIP		3.9K	5%	1/10W	R304	1-216-073-00	RES-CHIP	10K	5%	1/10W
R027	1-216-073-00	RES-CHIP		10K	5%	1/10W	R305	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R029	1-216-049-91	RES-CHIP		1K	5%	1/10W	R306	1-216-085-00	RES-CHIP	33K	5%	1/10W
R031	1-216-049-91	RES-CHIP		1K	5%	1/10W	R308	1-216-025-91	RES-CHIP	100	5%	1/10W
R034	1-216-049-91	RES-CHIP		1K	5%	1/10W	R309	1-216-025-91	RES-CHIP	100	5%	1/10W
R035	1-216-025-91	RES-CHIP		100	5%	1/10W	R310	1-216-025-91	RES-CHIP	100	5%	1/10W
R036	1-216-025-91	RES-CHIP		100	5%	1/10W	R311	1-216-017-91	RES-CHIP	47	5%	1/10W
R037	1-216-025-91	RES-CHIP		100	5%	1/10W	R312	1-216-041-00	RES-CHIP	470	5%	1/10W
R040	1-216-025-91	RES-CHIP		100	5%	1/10W	R313	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R041	1-216-025-91	RES-CHIP		100	5%	1/10W	R314	1-216-043-91	RES-CHIP	560	5%	1/10W
R042	1-216-295-91	SHORT		0			R315	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R043	1-216-049-91	RES-CHIP		1K	5%	1/10W	R316	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R044	1-216-025-91	RES-CHIP		100	5%	1/10W	R317	1-216-077-91	RES-CHIP	15K	5%	1/10W
R045	1-414-233-22	INDUCTOR	CHIP	0UH			R318	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R046	1-216-049-91	RES-CHIP		1K	5%	1/10W	R319	1-216-025-91	RES-CHIP	100	5%	1/10W
R047	1-414-233-22	INDUCTOR	CHIP	0UH			R320	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R048	1-216-073-00	RES-CHIP		10K	5%	1/10W	R321	1-216-073-00	RES-CHIP	10K	5%	1/10W
R050	1-216-073-00	RES-CHIP		10K	5%	1/10W	R322	1-216-033-00	RES-CHIP	220	5%	1/10W
R053	1-216-049-91	RES-CHIP		1K	5%	1/10W	R326	1-216-295-91	SHORT	0		
R055	1-216-073-00	RES-CHIP		10K	5%	1/10W	R331	1-216-295-91	SHORT	0		
R056	1-216-073-00	RES-CHIP		10K	5%	1/10W	R332	1-216-033-00	RES-CHIP	220	5%	1/10W
R061	1-216-033-00	RES-CHIP		220	5%	1/10W	R333	1-216-083-00	RES-CHIP	27K	5%	1/10W
R062	1-216-041-00	RES-CHIP		470	5%	1/10W	R334	1-216-129-00	RES-CHIP	2.2M	5%	1/10W
R063	1-216-041-00	RES-CHIP		470	5%	1/10W	R335	1-216-045-00	RES-CHIP	680	5%	1/10W
R064	1-216-041-00	RES-CHIP		470	5%	1/10W	R338	1-216-037-00	RES-CHIP	330	5%	1/10W
R065	1-216-041-00	RES-CHIP		470	5%	1/10W	R340	1-216-025-91	RES-CHIP	100	5%	1/10W
R066	1-216-049-91	RES-CHIP		1K	5%	1/10W	R345	1-216-081-00	RES-CHIP	22K	5%	1/10W
R067	1-216-049-91	RES-CHIP		1K	5%	1/10W	R346	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R105	1-216-295-91	SHORT		0			R347	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R109	1-216-041-00	RES-CHIP		470	5%	1/10W	R348	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R111	1-216-025-91	RES-CHIP		100	5%	1/10W	R349	1-216-073-00	RES-CHIP	10K	5%	1/10W
R112	1-216-025-91	RES-CHIP		100	5%	1/10W	R350	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R113	1-216-047-91	RES-CHIP		820	5%	1/10W	R351	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R115	1-216-053-00	RES-CHIP		1.5K	5%	1/10W	R354	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R202	1-216-053-00	RES-CHIP		1.5K	5%	1/10W	R355	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
							R356	1-216-057-00	RES-CHIP	2.2K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK		
R357	1-216-079-00	RES-CHIP	18K	5%	1/10W	R552	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R358	1-216-049-91	RES-CHIP	1K	5%	1/10W	R553	1-215-453-00	METAL	22K	1%	1/4W
R359	1-216-033-00	RES-CHIP	220	5%	1/10W	R554	1-215-453-00	METAL	22K	1%	1/4W
R360	1-216-033-00	RES-CHIP	220	5%	1/10W	R556	1-215-437-00	METAL	4.7K	1%	1/4W
R361	1-216-073-00	RES-CHIP	10K	5%	1/10W	R558	1-247-843-11	CARBON	3.3K	5%	1/4W
R362	1-216-075-00	RES-CHIP	12K	5%	1/10W	R559	1-249-429-11	CARBON	10K	5%	1/4W
R363	1-216-079-00	RES-CHIP	18K	5%	1/10W	R560	1-216-073-00	RES-CHIP	10K	5%	1/10W
R364	1-216-295-91	SHORT	0			R561	1-216-049-91	RES-CHIP	1K	5%	1/10W
R365	1-216-033-00	RES-CHIP	220	5%	1/10W	R562	1-249-401-11	CARBON	47	5%	1/4W
R366	1-216-073-00	RES-CHIP	10K	5%	1/10W	R564	1-208-820-11	METAL CHIP	39K	0.5%	1/10W
R367	1-216-073-00	RES-CHIP	10K	5%	1/10W	R565	1-216-073-00	RES-CHIP	10K	5%	1/10W
R368	1-216-073-00	RES-CHIP	10K	5%	1/10W	R567	1-216-105-91	RES-CHIP	220K	5%	1/10W
R370	1-216-033-00	RES-CHIP	220	5%	1/10W	R568	1-249-383-11	CARBON	1.5	5%	1/4W
R375	1-216-025-91	RES-CHIP	100	5%	1/10W	R570	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R376	1-216-081-00	RES-CHIP	22K	5%	1/10W	R571	1-215-443-00	METAL	8.2K	1%	1/4W
R377	1-216-121-91	RES-CHIP	1M	5%	1/10W	R573	1-216-083-00	RES-CHIP	27K	5%	1/10W
R378	1-216-031-00	RES-CHIP	180	5%	1/10W	R575	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W
R500	1-249-417-11	CARBON	1K	5%	1/4W	R577	1-215-913-11	METAL OXIDE	220	5%	3W
R501	1-216-049-91	RES-CHIP	1K	5%	1/10W	R578	1-216-369-00	METAL OXIDE	1	5%	2W
R505	1-216-699-91	METAL CHIP	100K	0.5%	1/10W	R579	1-216-295-91	SHORT	0		
R506	1-216-081-00	RES-CHIP	22K	5%	1/10W	R580	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R507	1-249-389-11	CARBON	4.7	5%	1/4W	R581	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R508	1-216-471-11	METAL OXIDE	27	5%	3W	R582	1-208-846-11	METAL CHIP	470K	0.5%	1/10W
R509	1-216-473-11	METAL OXIDE	56	5%	3W	R584	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R510	1-216-449-11	METAL OXIDE	56	5%	2W	R587	1-216-295-91	SHORT	0		
R511	1-215-908-00	METAL OXIDE	33	5%	3W	R588	1-215-888-00	METAL OXIDE	220	5%	2W
R515	1-215-911-11	METAL OXIDE	100	5%	3W	R589	1-215-888-00	METAL OXIDE	220	5%	2W
R517	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W	R590	1-215-465-00	METAL	68K	1%	1/4W
R518	1-247-807-31	CARBON	100	5%	1/4W	R591	1-260-288-11	CARBON	0.47	5%	1/2W
R519	1-215-913-11	METAL OXIDE	220	5%	3W	R592	1-208-820-11	METAL CHIP	39K	0.5%	1/10W
R520	1-215-445-00	METAL	10K	1%	1/4W	R593	1-260-288-11	CARBON	0.47	5%	1/2W
R522	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	R594	1-260-288-11	CARBON	0.47	5%	1/2W
R523	1-249-411-11	CARBON	330	5%	1/4W	R595	1-216-073-00	RES-CHIP	10K	5%	1/10W
R525	1-208-846-11	METAL CHIP	470K	0.5%	1/10W	R596	1-215-916-00	METAL OXIDE	680	5%	3W
R526	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W	R597	1-247-750-11	CARBON	680	5%	1/2W
R527	1-216-001-00	RES-CHIP	10	5%	1/10W	R598	1-249-438-11	CARBON	56K	5%	1/4W
R528	1-208-814-91	METAL CHIP	22K	0.5%	1/10W	R599	1-249-389-11	CARBON	4.7	5%	1/4W
R529	1-216-635-11	METAL CHIP	220	0.5%	1/10W	R600	1-249-438-11	CARBON	56K	5%	1/4W
R531	1-247-843-11	CARBON	3.3K	5%	1/4W	R601	1-249-420-11	CARBON	1.8K	5%	1/4W
R533	1-249-417-11	CARBON	1K	5%	1/4W	R602	1-249-389-11	CARBON	4.7	5%	1/4W
R534	1-216-364-11	METAL OXIDE	0.39	5%	2W	R603	1-215-485-00	METAL	470K	1%	1/4W
R535	1-216-067-00	RES-CHIP	5.6K	5%	1/10W	R604	1-216-097-91	RES-CHIP	100K	5%	1/10W
R536	1-216-067-00	RES-CHIP	5.6K	5%	1/10W	R607	1-249-425-11	CARBON	4.7K	5%	1/4W
R537	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W	R608	1-240-205-91	CARBON	22M	5%	1/2W
R539	1-216-049-91	RES-CHIP	1K	5%	1/10W	R609	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R540	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R610	1-216-073-00	RES-CHIP	10K	5%	1/10W
R541	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R611	1-216-089-91	RES-CHIP	47K	5%	1/10W
R542	1-216-073-00	RES-CHIP	10K	5%	1/10W	R612	1-216-045-00	RES-CHIP	680	5%	1/10W
R543	1-216-437-00	METAL OXIDE	5.6K	5%	1W	R614	1-216-041-00	RES-CHIP	470	5%	1/10W
R544	1-215-917-11	METAL OXIDE	1K	5%	3W	R615	1-216-369-00	METAL OXIDE	1	5%	2W
R545	1-216-077-91	RES-CHIP	15K	5%	1/10W	R616	1-260-302-51	CARBON	6.8	5%	1/2W
R546	1-216-077-91	RES-CHIP	15K	5%	1/10W	R617	1-247-791-91	CARBON	22	5%	1/4W
R547	1-216-085-00	RES-CHIP	33K	5%	1/10W	R618	1-162-116-00	CERAMIC	680PF	10.00%	2KV
R548	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W	R619	1-260-128-11	CARBON	270K	5%	1/2W
R549	1-215-452-00	METAL	20K	1%	1/4W	R620	1-129-720-00	FILM	0.033UF	5.00%	630V
R550	1-216-097-91	RES-CHIP	100K	5%	1/10W	R621	1-215-864-00	METAL OXIDE	150	5%	1W
R551	1-249-441-11	CARBON	100K	5%	1/4W	R623	1-216-095-00	RES-CHIP	82K	5%	1/10W
					R624	1-216-089-91	RES-CHIP	47K	5%	1/10W	

A **B6**

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

REF. NO.	PART NO.	DESCRIPTION	REMARK		REF. NO.	PART NO.	DESCRIPTION	REMARK			
R626	1-216-049-91	RES-CHIP	1K	5%	1/10W		<THERMISTOR>				
R627	1-240-251-11	CMT-MELF	6.8	5%	10W		THP600	1-803-540-11	THERMISTOR		
R629	1-247-747-11	CARBON	470	5%	1/2W		<TUNER>				
R630	1-249-429-11	CARBON	10K	5%	1/4W		TU101	8-598-449-10	TUNER, FSS BTF-LG433		
R631	1-216-089-91	RES-CHIP	47K	5%	1/10W		<CRYSTAL>				
R632	1-220-886-11	FUSIBLE	0.1	10%	1W		X001	1-579-125-11	VIBRATOR, CERAMIC		
R634	△ 1-218-265-11	METAL	8.2M	5%	1W		X301	1-781-134-21	VIBRATOR, CRYSTAL		
R635	1-216-492-21	METAL OXIDE	82K	5%	3W		X302	1-781-132-21	VIBRATOR, CRYSTAL		
R636	1-215-924-00	METAL OXIDE	15K	5%	3W		*****				
R637	1-216-492-21	METAL OXIDE	82K	5%	3W		* A-1136-081-A	B6 BOARD COMPLETE			
R639	1-216-361-21	METAL OXIDE	0.22	5%	2W		*****				
R640	1-249-415-11	CARBON	680	5%	1/4W		* 1-533-223-11	CLIP, FUSE			
R641	1-216-361-21	METAL OXIDE	0.22	5%	2W		* 4-374-846-01	COVER, CAPACITOR, CAP TYPE			
R642	1-249-419-11	CARBON	1.5K	5%	1/4W		<CAPACITOR>				
R643	1-247-843-11	CARBON	3.3K	5%	1/4W		C8227	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V
R644	1-249-419-11	CARBON	1.5K	5%	1/4W		C8228	1-163-024-00	CERAMIC CHIP	0.018UF	10.00% 50V
R646	1-215-924-00	METAL OXIDE	15K	5%	3W		C8229	1-163-018-00	CERAMIC CHIP	0.0056UF	10.00% 50V
R647	1-249-387-11	CARBON	3.3	5%	1/4W		C8230	1-163-024-00	CERAMIC CHIP	0.018UF	10.00% 50V
R648	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		C8231	1-163-018-00	CERAMIC CHIP	0.0056UF	10.00% 50V
R649	1-249-417-11	CARBON	1K	5%	1/4W		C8232	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V
R650	1-215-882-00	METAL OXIDE	22	5%	2W		C8233	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
R652	1-215-900-11	METAL OXIDE	22K	5%	2W		C8234	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
R653	1-215-873-00	METAL OXIDE	4.7K	5%	1W		C8235	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
R656	1-249-417-11	CARBON	1K	5%	1/4W		C8236	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
R657	1-260-127-11	CARBON	220K	5%	1/2W		C8238	1-164-505-11	CERAMIC CHIP	2.2UF	16V
R659	1-216-049-91	RES-CHIP	1K	5%	1/10W		C8240	1-164-505-11	CERAMIC CHIP	2.2UF	16V
R660	1-216-073-00	RES-CHIP	10K	5%	1/10W		C8241	1-164-346-11	CERAMIC CHIP	1UF	16V
R661	1-215-873-00	METAL OXIDE	4.7K	5%	1W		C8242	1-164-505-11	CERAMIC CHIP	2.2UF	16V
R682	1-249-377-11	CARBON	0.47	5%	1/4W		C8243	1-164-346-11	CERAMIC CHIP	1UF	16V
R901	1-249-411-11	CARBON	330	5%	1/4W		C8244	1-164-700-11	CERAMIC CHIP	0.68UF	16V
R902	1-249-411-11	CARBON	330	5%	1/4W		C8245	1-164-346-11	CERAMIC CHIP	1UF	16V
R909	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		C8246	1-163-018-00	CERAMIC CHIP	0.0056UF	10.00% 50V
R910	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		C8247	1-164-346-11	CERAMIC CHIP	1UF	16V
<RELAY>											
RY600	△ 1-755-214-11	RELAY, AC POWER					C8248	1-163-010-11	CERAMIC CHIP	0.0012UF	10.00% 50V
RY601	△ 1-755-214-11	RELAY, AC POWER					C8249	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
<SWITCH>											
S501	1-572-707-11	SWITCH, LEVER					C8250	1-164-346-11	CERAMIC CHIP	1UF	16V
S502	1-572-707-11	SWITCH, LEVER					C8251	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00% 50V
<TRANSFORMER>											
T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE					C8252	1-164-346-11	CERAMIC CHIP	1UF	16V
T503	△ 1-453-297-21	TRANSFORMER ASSY, FLYBACK (NX4009//M3I4)					C8253	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V
T504	1-431-693-11	TRANSFORMER, HORIZONTAL LINEAR					C8254	1-126-965-11	ELECT	22UF	20.00% 50V
T505	1-426-981-11	TRANSFORMER, FERRITE (PMT)					C8255	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V
T601	△ 1-424-505-11	TRANSFORMER, LINE FILTER					C8258	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
T603	△ 1-435-147-11	TRANSFORMER, CONVERTER (SRT)					C8259	1-126-933-11	ELECT	100UF	20.00% 16V
T604	△ 1-431-852-11	TRANSFORMER, CONVERTER (SRT)					C8260	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
<RELAY>											
C8261	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V		C8263	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8262	1-126-933-11	ELECT	100UF	20.00%	16V		C8301	1-126-933-11	ELECT	100UF	20.00% 16V

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B6

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C8304	1-126-967-11	ELECT	47UF 20.00% 50V	D8410	8-719-158-35	DIODE RD9.1SB-T1	
C8305	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	D8411	8-719-158-35	DIODE RD9.1SB-T1	
C8333	1-126-964-11	ELECT	10UF 20.00% 50V	D8412	8-719-914-42	DIODE DA204K-T-146	
C8401	1-164-346-11	CERAMIC CHIP	1UF 16V	D8413	8-719-158-35	DIODE RD9.1SB-T1	
C8402	1-164-346-11	CERAMIC CHIP	1UF 16V			<FUSE>	
C8403	1-163-005-11	CERAMIC CHIP	470PF 10.00% 50V	F8601	\triangle 1-532-299-00	FUSE, TIME-LAG 5A/250V	
C8404	1-163-005-11	CERAMIC CHIP	470PF 10.00% 50V			<IC>	
C8405	1-126-935-11	ELECT	470UF 20.00% 16V	IC8203	8-759-553-40	IC TDA7429S	
C8406	1-164-346-11	CERAMIC CHIP	1UF 16V	IC8204	8-759-100-96	IC NJM4558M-TE2	
C8407	1-164-346-11	CERAMIC CHIP	1UF 16V	IC8501	8-752-058-68	IC CXA1315M-T4	
C8408	1-163-133-00	CERAMIC CHIP	470PF 5.00% 50V			<JACK>	
C8409	1-126-933-11	ELECT	100UF 20.00% 16V	J8402	1-778-388-11	JACK BLOCK, PIN 9P	
C8410	1-164-346-11	CERAMIC CHIP	1UF 16V			<CHIP CONDUCTOR>	
C8411	1-163-133-00	CERAMIC CHIP	470PF 5.00% 50V	JR8206	1-216-295-91	SHORT 0	
C8412	1-164-346-11	CERAMIC CHIP	1UF 16V	JR8401	1-216-295-91	SHORT 0	
C8413	1-163-133-00	CERAMIC CHIP	470PF 5.00% 50V			<COIL>	
C8414	1-126-963-11	ELECT	4.7UF 20.00% 50V	L8204	1-414-856-11	INDUCTOR 10UH	
C8415	1-163-133-00	CERAMIC CHIP	470PF 5.00% 50V	L8301	1-414-189-31	INDUCTOR 100UH	
C8416	1-164-346-11	CERAMIC CHIP	1UF 16V	L8502	1-414-856-11	INDUCTOR 10UH	
C8417	1-163-133-00	CERAMIC CHIP	470PF 5.00% 50V	L8570	1-410-470-11	INDUCTOR 10UH	
C8418	1-164-346-11	CERAMIC CHIP	1UF 16V			<TRANSISTOR>	
C8419	1-163-133-00	CERAMIC CHIP	470PF 5.00% 50V				
C8571	1-163-263-11	CERAMIC CHIP	330PF 5.00% 50V	Q8309	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
C8572	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	Q8310	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
C8574	1-216-295-91	SHORT	0	Q8401	8-729-424-67	TRANSISTOR UN2216	
C8575	1-163-255-11	CERAMIC CHIP	150PF 5.00% 50V	Q8402	8-729-424-67	TRANSISTOR UN2216	
C8576	1-104-661-91	ELECT	330UF 20.00% 16V	Q8403	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
C8577	1-165-319-11	CERAMIC CHIP	0.1UF 50V	Q8404	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
C8578	1-165-319-11	CERAMIC CHIP	0.1UF 50V	Q8571	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
C8579	1-126-967-11	ELECT	47UF 20.00% 50V	Q8572	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
C8580	1-165-319-11	CERAMIC CHIP	0.1UF 50V	Q8573	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
C8581	1-165-319-11	CERAMIC CHIP	0.1UF 50V	Q8574	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
C8601	\triangle 1-104-708-11	MYLAR	0.47UF 20.00% 250V	Q8575	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
C8602	\triangle 1-109-835-11	MYLAR	0.68UF 20.00% 250V	Q8576	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
C8654	1-117-703-11	CERAMIC	0.0047UF 99% 250V	Q8577	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
			<CONNECTOR>				
CN8401*	1-564-509-11	PLUG, CONNECTOR 6P					
CN8402*	1-764-333-11	PLUG, CONNECTOR 10P					
CN8403*	1-564-510-11	PLUG, CONNECTOR 7P					
CN8501*	1-564-506-11	PLUG, CONNECTOR 3P					
CN8601*	1-580-843-11	PIN, CONNECTOR (POWER)					
CN8602*	1-580-843-11	PIN, CONNECTOR (POWER)					
CN8603	1-695-915-11	TAB (CONTACT)					
			<DIODE>				
D8300	8-719-158-35	DIODE RD9.1SB-T1					
D8401	8-719-158-35	DIODE RD9.1SB-T1					
D8402	8-719-158-35	DIODE RD9.1SB-T1					
D8403	8-719-158-35	DIODE RD9.1SB-T1					
D8404	8-719-158-35	DIODE RD9.1SB-T1					
D8405	8-719-158-35	DIODE RD9.1SB-T1					
D8406	8-719-158-35	DIODE RD9.1SB-T1					
D8407	8-719-158-35	DIODE RD9.1SB-T1					
D8408	8-719-158-35	DIODE RD9.1SB-T1					
D8409	8-719-158-35	DIODE RD9.1SB-T1					
			<RESISTOR>				
R8215	1-216-059-00	RES-CHIP	2.7K 5% 1/10W				
R8216	1-216-059-00	RES-CHIP	2.7K 5% 1/10W				
R8217	1-216-067-00	RES-CHIP	5.6K 5% 1/10W				
R8218	1-216-067-00	RES-CHIP	5.6K 5% 1/10W				
R8219	1-216-025-91	RES-CHIP	100 5% 1/10W				
R8220	1-216-025-91	RES-CHIP	100 5% 1/10W				
R8221	1-216-689-11	RES-CHIP	39K 5% 1/10W				
R8222	1-216-689-11	RES-CHIP	39K 5% 1/10W				
R8223	1-216-063-91	RES-CHIP	3.9K 5% 1/10W				
R8224	1-216-073-00	RES-CHIP	10K 5% 1/10W				

B6**C6**

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R8225	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	R8581	1-216-675-91	METAL CHIP	10K 0.5% 1/10W
R8226	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	R8582	1-216-671-11	METAL CHIP	6.8K 0.5% 1/10W
R8238	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	R8583	1-216-675-91	METAL CHIP	10K 0.5% 1/10W
R8239	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	R8584	1-216-675-91	METAL CHIP	10K 0.5% 1/10W
R8240	1-216-689-11	RES-CHIP	39K 5% 1/10W	R8585	1-216-675-91	METAL CHIP	10K 0.5% 1/10W
R8241	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	R8586	1-216-679-11	METAL CHIP	15K 0.5% 1/10W
R8242	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	R8589	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8243	1-216-689-11	RES-CHIP	39K 5% 1/10W	R8590	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8334	1-216-022-00	RES-CHIP	75 5% 1/10W	R8591	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8335	1-216-033-00	RES-CHIP	220 5% 1/10W	R8592	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8336	1-216-041-00	RES-CHIP	470 5% 1/10W	R8593	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8337	1-216-045-00	RES-CHIP	680 5% 1/10W	R8594	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8339	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R8595	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8341	1-216-045-00	RES-CHIP	680 5% 1/10W	R8596	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8342	1-216-049-91	RES-CHIP	1K 5% 1/10W	R8598	1-216-025-91	RES-CHIP	100 5% 1/10W
R8343	1-216-063-91	RES-CHIP	3.9K 5% 1/10W	R8599	1-216-025-91	RES-CHIP	100 5% 1/10W
R8344	1-216-073-00	RES-CHIP	10K 5% 1/10W	R8601 \triangle 1-202-719-00	SOLID	1M 10%	1/2W
R8401	1-216-049-91	RES-CHIP	1K 5% 1/10W	<TRANSFORMER>			
R8402	1-216-073-00	RES-CHIP	10K 5% 1/10W	T8601 \triangle 1-431-536-11	TRANSFORMER, LINE FILTER		
R8403	1-216-073-00	RES-CHIP	10K 5% 1/10W	T8602 \triangle 1-431-182-11	TRANSFORMER, LINE FILTER		
R8404	1-216-073-00	RES-CHIP	10K 5% 1/10W	<VARISTOR>			
R8405	1-216-049-91	RES-CHIP	1K 5% 1/10W	VDR8461 1-803-830-31	VARISTOR (ERZV14D621)		
R8406	1-216-073-00	RES-CHIP	10K 5% 1/10W	<CAPACITOR>			
R8407	1-216-049-91	RES-CHIP	1K 5% 1/10W	* A-1332-011-A C6 BOARD MOUNTED			
R8408	1-216-049-91	RES-CHIP	1K 5% 1/10W	*****			
R8409	1-216-041-00	RES-CHIP	470 5% 1/10W	*****			
R8410	1-216-113-00	RES-CHIP	470K 5% 1/10W	7-682-948-01 SCREW +PSW 3X8			
R8411	1-216-113-00	RES-CHIP	470K 5% 1/10W	*****			
R8412	1-216-041-00	RES-CHIP	470 5% 1/10W	*****			
R8413	1-216-021-00	RES-CHIP	68 5% 1/10W	*****			
R8414	1-216-113-00	RES-CHIP	470K 5% 1/10W	*****			
R8415	1-216-113-00	RES-CHIP	470K 5% 1/10W	*****			
R8416	1-216-089-91	RES-CHIP	47K 5% 1/10W	*****			
R8417	1-216-089-91	RES-CHIP	47K 5% 1/10W	*****			
R8418	1-216-113-00	RES-CHIP	470K 5% 1/10W	*****			
R8419	1-216-022-00	RES-CHIP	75 5% 1/10W	*****			
R8420	1-216-113-00	RES-CHIP	470K 5% 1/10W	*****			
R8421	1-216-077-91	RES-CHIP	15K 5% 1/10W	C701	1-162-114-00	CERAMIC	0.0047UF 2KV
R8422	1-216-077-91	RES-CHIP	15K 5% 1/10W	C702	1-102-074-00	CERAMIC	0.001UF 10.00% 50V
R8423	1-216-113-00	RES-CHIP	470K 5% 1/10W	C708	1-102-114-00	CERAMIC	470PF 10.00% 50V
R8424	1-216-022-00	RES-CHIP	75 5% 1/10W	C709	1-102-114-00	CERAMIC	470PF 10.00% 50V
R8425	1-216-033-00	RES-CHIP	220 5% 1/10W	C710	1-102-114-00	CERAMIC	470PF 10.00% 50V
R8426	1-216-033-00	RES-CHIP	220 5% 1/10W	C712	1-102-115-00	CERAMIC	560PF 10.00% 50V
R8427	1-216-089-91	RES-CHIP	47K 5% 1/10W	C713	1-102-112-00	CERAMIC	330PF 10.00% 50V
R8428	1-216-113-00	RES-CHIP	470K 5% 1/10W	C714	1-102-113-00	CERAMIC	390PF 10.00% 50V
R8429	1-216-089-91	RES-CHIP	47K 5% 1/10W	C716	1-126-933-11	ELECT	100UF 20.00% 16V
R8430	1-216-113-00	RES-CHIP	470K 5% 1/10W	C717	1-107-651-11	ELECT	4.7UF 20.00% 250V
R8570	1-216-021-00	RES-CHIP	68 5% 1/10W	C726	1-104-664-11	ELECT	47UF 20.00% 25V
R8571	1-216-645-11	METAL CHIP	560 0.5% 1/10W	C1800	1-126-964-11	ELECT	10UF 20.00% 50V
R8572	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	C1803	1-126-964-11	ELECT	10UF 20.00% 50V
R8573	1-216-073-00	RES-CHIP	10K 5% 1/10W	C1804	1-126-964-11	ELECT	10UF 20.00% 50V
R8574	1-216-667-11	METAL CHIP	4.7K 0.5% 1/10W	C1809	1-126-942-61	ELECT	1000UF 20.00% 25V
R8575	1-216-081-00	RES-CHIP	22K 5% 1/10W	<CONNECTOR>			
R8577	1-216-049-91	RES-CHIP	1K 5% 1/10W	*****			
R8578	1-216-033-00	RES-CHIP	220 5% 1/10W	*****			
R8579	1-216-049-91	RES-CHIP	1K 5% 1/10W	CN700	1-695-915-11	TAB (CONTACT)	
R8580	1-216-049-91	RES-CHIP	1K 5% 1/10W	CN701	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
				CN702	1-695-915-11	TAB (CONTACT)	

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C6

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
CN703 *	1-564-509-11	PLUG, CONNECTOR 6P		Q1800	8-729-119-76	TRANSISTOR 2SA1175TP-HFE			
CN704	1-695-915-11	TAB (CONTACT)		Q1802	8-729-119-78	TRANSISTOR 2SC2785TP-HFE			
CN1801*	1-564-509-11	PLUG, CONNECTOR 6P		<RESISTOR>					
CN1802*	1-564-506-11	PLUG, CONNECTOR 3P		R701	1-249-496-11	CARBON	100K	5%	1/2W
<DIODE>				R705	1-216-392-11	METAL OXIDE	1.8	5%	3W
D701	8-719-911-19	DIODE 1SS119-25TD		R710	1-215-923-00	METAL OXIDE	10K	5%	3W
D702	8-719-911-19	DIODE 1SS119-25TD		R711	1-260-330-11	CARBON	1.5K	5%	1/2W
D703	8-719-911-19	DIODE 1SS119-25TD		R712	1-215-923-00	METAL OXIDE	10K	5%	3W
D704	8-719-911-19	DIODE 1SS119-25TD		R713	1-260-330-11	CARBON	1.5K	5%	1/2W
D705	8-719-911-19	DIODE 1SS119-25TD		R714	1-215-923-00	METAL OXIDE	10K	5%	3W
D706	8-719-911-19	DIODE 1SS119-25TD		R715	1-260-330-11	CARBON	1.5K	5%	1/2W
D707	8-719-911-19	DIODE 1SS119-25TD		R716	1-249-405-11	CARBON	100	5%	1/4W
D708	8-719-911-19	DIODE 1SS119-25TD		R717	1-249-405-11	CARBON	100	5%	1/4W
D709	8-719-911-19	DIODE 1SS119-25TD		R718	1-249-405-11	CARBON	100	5%	1/4W
D710	8-719-911-19	DIODE 1SS119-25TD		R719	1-215-469-00	METAL	100K	1%	1/4W
D711	8-719-911-19	DIODE 1SS119-25TD		R720	1-249-923-11	CARBON	1K	5%	1/4W
D712	8-719-911-19	DIODE 1SS119-25TD		R722	1-249-923-11	CARBON	1K	5%	1/4W
D713	8-719-911-19	DIODE 1SS119-25TD		R723	1-215-469-00	METAL	100K	1%	1/4W
D714	8-719-911-19	DIODE 1SS119-25TD		R724	1-249-923-11	CARBON	1K	5%	1/4W
D715	8-719-911-19	DIODE 1SS119-25TD		R725	1-249-424-11	CARBON	3.9K	5%	1/4W
D716	8-719-911-19	DIODE 1SS119-25TD		R726	1-249-424-11	CARBON	3.9K	5%	1/4W
D717	8-719-929-15	DIODE RD9.1ES-T1B		R727	1-249-424-11	CARBON	3.9K	5%	1/4W
D1803	8-719-911-19	DIODE 1SS119-25TD		R728	1-249-408-11	CARBON	180	5%	1/4W
D1804	8-719-911-19	DIODE 1SS119-25TD		R729	1-249-408-11	CARBON	180	5%	1/4W
D1808	8-719-908-03	DIODE GP08DPKG23		R730	1-249-408-11	CARBON	180	5%	1/4W
<IC>				R731	1-249-401-11	CARBON	47	5%	1/4W
<JACK>				R732	1-249-401-11	CARBON	47	5%	1/4W
J701 \triangle 1-540-071-22 SOCKET, CRT				R733	1-249-401-11	CARBON	47	5%	1/4W
<COIL>				R734	1-247-739-11	CARBON	100	5%	1/2W
L701	1-410-667-31	INDUCTOR	22UH	R738	1-247-807-31	CARBON	100	5%	1/4W
L703	1-408-611-31	INDUCTOR	47UH	R739	1-247-807-31	CARBON	100	5%	1/4W
L705	1-408-609-41	INDUCTOR	33UH	R740	1-247-807-31	CARBON	100	5%	1/4W
L707	1-408-611-31	INDUCTOR	47UH	R744	1-215-415-00	METAL	560	1%	1/4W
<TRANSISTOR>				R745	1-215-410-00	METAL	360	1%	1/4W
Q701	8-729-326-11	TRANSISTOR 2SC2611		R747	1-215-926-00	METAL OXIDE	33K	5%	3W
Q702	8-729-326-11	TRANSISTOR 2SC2611		R749	1-215-927-00	METAL OXIDE	47K	5%	3W
Q703	8-729-326-11	TRANSISTOR 2SC2611		R751	1-216-490-11	METAL OXIDE	39K	5%	3W
Q704	8-729-326-11	TRANSISTOR 2SC3271F-N		R753	1-249-429-11	CARBON	10K	5%	1/4W
Q705	8-729-326-11	TRANSISTOR 2SC3271F-N		R755	1-249-427-11	CARBON	6.8K	5%	1/4W
Q706	8-729-326-11	TRANSISTOR 2SC3271F-N		R756	1-249-427-11	CARBON	6.8K	5%	1/4W
Q707	8-729-200-17	TRANSISTOR 2SA1091O-TPE2		R757	1-249-427-11	CARBON	6.8K	5%	1/4W
Q708	8-729-200-17	TRANSISTOR 2SA1091O-TPE2		R758	1-249-419-11	CARBON	1.5K	5%	1/4W
Q709	8-729-200-17	TRANSISTOR 2SA1091O-TPE2		R759	1-249-419-11	CARBON	1.5K	5%	1/4W
Q710	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		R760	1-249-419-11	CARBON	1.5K	5%	1/4W
Q711	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		R1800	1-249-417-11	CARBON	1K	5%	1/4W
Q712	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		R1801	1-249-426-11	CARBON	5.6K	5%	1/4W
Q714	8-729-255-12	TRANSISTOR 2SC2551O-TPE2		R1802	1-249-387-11	CARBON	3.3	5%	1/4W
				R1803	1-249-387-11	CARBON	3.3	5%	1/4W
				R1805	1-249-429-11	CARBON	10K	5%	1/4W
				R1806	1-249-425-11	CARBON	4.7K	5%	1/4W
				R1808	1-249-425-11	CARBON	4.7K	5%	1/4W
				R1809	1-249-435-11	CARBON	33K	5%	1/4W
				R1810	1-249-435-11	CARBON	33K	5%	1/4W
				R1811	1-249-435-11	CARBON	33K	5%	1/4W
				R1812	1-249-435-11	CARBON	33K	5%	1/4W
				R1821	1-249-435-11	CARBON	33K	5%	1/4W

C6 **D3** **H2**

REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
R1822	1-249-435-11	CARBON	33K	5%	1/4W	<TRANSISTOR>					
R1823	1-249-426-11	CARBON	5.6K	5%	1/4W	Q2800	8-729-119-78	TRANSISTOR 2SC2785TP-HFE			
R1824	1-249-435-11	CARBON	33K	5%	1/4W	Q2801	8-729-195-82	TRANSISTOR 2SC2958-L			
R1825	1-247-843-11	CARBON	3.3K	5%	1/4W	Q2802	8-729-017-06	TRANSISTOR 2SC4793			
<VARIABLE RESISTOR>						Q2803	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L			
RV702 1-241-656-11 RES, ADJ, METAL FILM 110M						Q2804	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
RV1801 1-223-241-11 RES, ADJ, CARBON 47K						<RESISTOR>					

* A-1343-763-A D3 BOARD MOUNTED						R2800	1-249-405-11	CARBON	100	5%	1/4W
*****						R2802	1-260-111-11	CARBON	10K	5%	1/2W
*****						R2803	1-260-111-11	CARBON	10K	5%	1/2W
*****						R2804	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
*****						R2805	1-216-097-91	RES-CHIP	100K	5%	1/10W
*****						R2806	1-249-421-11	CARBON	2.2K	5%	1/4W
*****						R2807	1-249-420-11	CARBON	1.8K	5%	1/4W
*****						R2808	1-215-857-11	METAL OXIDE	10	5%	1W
*****						R2809	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
*****						R2810	1-216-049-91	RES-CHIP	1K	5%	1/10W
*****						R2811	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
*****						R2812	1-216-081-00	RES-CHIP	22K	5%	1/10W
*****						R2813	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
*****						R2814	1-216-121-91	RES-CHIP	1M	5%	1/10W
*****						R2815	1-216-085-00	RES-CHIP	33K	5%	1/10W
*****						R2816	1-216-107-00	RES-CHIP	270K	5%	1/10W
*****						R2817	1-216-107-00	RES-CHIP	270K	5%	1/10W
*****						<TRANSFORMER>					
*****						T2800	1-413-059-00	TRANSFORMER, FERRITE (DFT)			

*****						* A-1372-742-A H2 BOARD MOUNTED					
*****						*****					
*****						* 4-055-304-01 HOLDER, LED					
*****						<CONNECTOR>					
*****						<DIODE>					
*****						<CAPACITOR>					
*****						D2800	8-719-302-43	DIODE RGP10GPKG23	C2910	1-104-664-11	ELECT
*****						D2801	8-719-911-19	DIODE 1SS119-25TD	C2911	1-104-664-11	ELECT
*****						D2802	8-719-911-19	DIODE 1SS119-25TD	C2912	1-102-114-00	CERAMIC
*****						D2803	8-719-911-19	DIODE 1SS119-25TD	47UF	20.00%	16V
*****						47UF	20.00%	16V	47UF	20.00%	16V
*****						470PF	10.00%	50V	470PF	10.00%	50V
*****						<CONNECTOR>					
*****						IC2800	8-759-701-59	IC NJM78M09FA	CN2601*	1-580-844-11	PIN, CONNECTOR (POWER)
*****						IC2801	8-759-998-98	IC LM358DR	CN2602*	1-580-844-11	PIN, CONNECTOR (POWER)
*****						<COIL>			CN2901*	1-564-507-11	PLUG, CONNECTOR 4P
*****						L2800	1-406-989-71	INDUCTOR	CN2902*	1-564-509-11	PLUG, CONNECTOR 6P
*****						L2802	1-406-987-21	INDUCTOR	CN2904*	1-564-508-11	PLUG, CONNECTOR 5P
*****						L2803	1-406-986-21	INDUCTOR	CN2905*	1-564-512-11	PLUG, CONNECTOR 9P
*****						L2804	1-406-678-11	INDUCTOR	15MH		

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

H2 **V1**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK						
<DIODE>													
D2905	8-719-070-16	DIODE NNCD9.1A-T1		C814	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V						
D2906	8-719-045-19	DIODE SPB-26MVWF		C815	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V						
D2908	8-719-070-16	DIODE NNCD9.1A-T1		C816	1-164-505-11	CERAMIC CHIP	2.2UF 16V						
				C817	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V						
				C818	1-163-239-11	CERAMIC CHIP	33PF 5.00% 50V						
				C820	1-163-239-11	CERAMIC CHIP	33PF 5.00% 50V						
				C821	1-163-038-91	CERAMIC CHIP	0.1UF 25V						
<IC>													
IC2901	8-759-180-30	HYB IC SBX3081-51(30)		C822	1-163-009-11	CERAMIC CHIP	0.001UF 10.00% 50V						
				C823	1-126-933-11	ELECT	100UF 20.00% 16V						
				C826	1-126-963-11	ELECT	4.7UF 20.00% 50V						
				C829	1-163-113-00	CERAMIC CHIP	68PF 5.00% 50V						
				C830	1-163-038-91	CERAMIC CHIP	0.1UF 25V						
J2901	1-770-786-11	JACK		C831	1-126-933-11	ELECT	100UF 20.00% 16V						
J2903	1-770-329-11	JACK, PIN 3P		C832	1-126-964-11	ELECT	10UF 20.00% 50V						
				C835	1-163-038-91	CERAMIC CHIP	0.1UF 25V						
				C837	1-126-933-11	ELECT	100UF 20.00% 16V						
<TRANSISTOR>													
Q2901	8-729-030-02	TRANSISTOR DTC144ESA-TP		<CONNECTOR>									
Q2902	8-729-030-02	TRANSISTOR DTC144ESA-TP		CN801	* 1-774-812-11	CONNECTOR, BOARD TO BOARD 7P							
				CN803	* 1-774-812-11	CONNECTOR, BOARD TO BOARD 7P							
<RESISTOR>													
R2907	1-249-426-11	CARBON	5.6K	5%	1/4W	<DIODE>							
R2908	1-249-413-11	CARBON	470	5%	1/4W	D802	8-719-914-44	DIODE DAP202K-T-146					
R2909	1-249-417-11	CARBON	1K	5%	1/4W	D803	8-719-105-46	DIODE RD3.3M-T1B2					
R2910	1-249-420-11	CARBON	1.8K	5%	1/4W	D804	8-719-105-91	DIODE RD5.6M-T1B2					
R2911	1-249-411-11	CARBON	330	5%	1/4W	D806	8-719-988-61	DIODE 1SS355TE-17					
R2912	1-247-843-11	CARBON	3.3K	5%	1/4W	D807	8-719-988-61	DIODE 1SS355TE-17					
R2913	1-249-429-11	CARBON	10K	5%	1/4W	<FERRITE BEAD>							
R2914	1-249-411-11	CARBON	330	5%	1/4W	FB801	1-410-397-21	FERRITE	1.1UH				
R2915	1-249-429-11	CARBON	10K	5%	1/4W	FB802	1-410-397-21	FERRITE	1.1UH				
R2916	1-249-401-11	CARBON	47	5%	1/4W	FB803	1-410-397-21	FERRITE	1.1UH				
R2920	1-247-807-31	CARBON	100	5%	1/4W	FB804	1-410-682-31	INDUCTOR	470UH				
R2921	1-247-807-31	CARBON	100	5%	1/4W	FB805	1-410-397-21	FERRITE	1.1UH				
<SWITCH>													
S2601	\triangle 1-571-433-21	SWITCH, PUSH (AC POWER)		<IC>									
S2902	1-692-431-21	SWITCH, TACTILE		IC801	8-759-476-87	IC SAA5261							
S2903	1-692-431-21	SWITCH, TACTILE		<CHIP CONDUCTOR>									
S2904	1-692-431-21	SWITCH, TACTILE		JR801	1-216-295-91	SHORT	0						
S2905	1-692-431-21	SWITCH, TACTILE		JR802	1-216-295-91	SHORT	0						
S2906	1-692-431-21	SWITCH, TACTILE		JR804	1-216-295-91	SHORT	0						
S2907	1-692-431-21	SWITCH, TACTILE		JR805	1-216-295-91	SHORT	0						
S2908	1-692-431-21	SWITCH, TACTILE		JR806	1-216-295-91	SHORT	0						

* A-1347-155-A V1 BOARD COMPLETE													

<CAPACITOR>													
C801	1-104-664-11	ELECT	47UF	20.00%	16V	<TRANSISTOR>							
C805	1-163-038-91	CERAMIC CHIP	0.1UF		25V	Q801	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR					
C806	1-163-038-91	CERAMIC CHIP	0.1UF		25V	Q803	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR					
						Q805	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR					

V₁

VM₁

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q806	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R888	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q807	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R889	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q808	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R890	1-216-081-00	RES-CHIP	22K 5% 1/10W
Q810	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R894	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q811	8-729-019-01	TRANSISTOR 2SD2394-EF		R895	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q812	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R896	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q813	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R897	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q814	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R898	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q817	8-729-900-53	TRANSISTOR DTC114EKA-T146					<CRYSTAL>
Q818	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		X801	1-578-774-11	VIBRATOR, CRYSTAL	
		<RESISTOR>					
R800	1-208-806-11	METAL CHIP	10K 0.5% 1/10W				*****
R801	1-216-295-91	SHORT	0				* A-1342-519-A VM1 BOARD MOUNTED
R802	1-216-025-91	RES-CHIP	100 5% 1/10W				*****
R803	1-216-295-91	SHORT	0				
R804	1-216-295-91	SHORT	0				
R805	1-216-295-91	SHORT	0				4-382-854-11 SCREW (M3X10), P, SW (+)
R807	1-216-295-91	SHORT	0				
R813	1-216-295-91	SHORT	0				
R820	1-216-073-00	RES-CHIP	10K 5% 1/10W				<CAPACITOR>
R821	1-216-083-00	RES-CHIP	27K 5% 1/10W				
R822	1-216-025-91	RES-CHIP	100 5% 1/10W	C5902	1-104-661-91	ELECT	330UF 20.00% 16V
R824	1-216-295-91	SHORT	0	C5903	1-161-830-00	CERAMIC	0.0047UF 500V
R825	1-216-295-91	SHORT	0	C5905	1-126-925-11	ELECT	470UF 20.00% 10V
R827	1-216-295-91	SHORT	0	C5906	1-130-491-00	MYLAR	0.047UF 5.00% 50V
R828	1-216-025-91	RES-CHIP	100 5% 1/10W	C5907	1-107-638-11	ELECT	33UF 20.00% 160V
R829	1-216-025-91	RES-CHIP	100 5% 1/10W	C5908	1-106-383-00	MYLAR	0.047UF 10.00% 200V
R830	1-216-295-91	SHORT	0	C5909	1-126-933-11	ELECT	100UF 20.00% 16V
R831	1-216-295-91	SHORT	0	C5910	1-130-471-00	MYLAR	0.001UF 5.00% 50V
R832	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W	C5911	1-107-949-11	ELECT	2.2UF 20.00% 160V
R835	1-216-295-91	SHORT	0	C5912	1-104-999-11	MYLAR	0.1UF 10.00% 200V
R839	1-216-655-11	METAL CHIP	1.5K 0.5% 1/10W	C5913	1-130-471-00	MYLAR	0.001UF 5.00% 50V
R841	1-216-025-91	RES-CHIP	100 5% 1/10W	C5914	1-126-933-11	ELECT	100UF 20.00% 16V
R842	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	C5916	1-130-491-00	MYLAR	0.047UF 5.00% 50V
R843	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	C5917	1-126-925-11	ELECT	470UF 20.00% 10V
R844	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	C5918	1-115-341-51	CERAMIC	120PF 10.00% 500V
R845	1-216-049-91	RES-CHIP	1K 5% 1/10W	C5920	1-126-964-11	ELECT	10UF 20.00% 50V
R846	1-216-049-91	RES-CHIP	1K 5% 1/10W	C5921	1-102-852-91	CERAMIC	47PF 5.00% 50V
R847	1-216-049-91	RES-CHIP	1K 5% 1/10W				<CONNECTOR>
R848	1-216-049-91	RES-CHIP	1K 5% 1/10W				
R849	1-216-049-91	RES-CHIP	1K 5% 1/10W				
R850	1-216-105-91	RES-CHIP	220K 5% 1/10W	CN2801*	1-564-506-11	PLUG, CONNECTOR 3P	
R851	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	CN5901*	1-564-510-11	PLUG, CONNECTOR 7P	
R853	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	CN5904*	1-770-723-11	CONNECTOR, BOARD TO BOARD 8P	
R857	1-216-081-00	RES-CHIP	22K 5% 1/10W				
R858	1-216-067-00	RES-CHIP	5.6K 5% 1/10W				
R861	1-216-049-91	RES-CHIP	1K 5% 1/10W				<DIODE>
R862	1-260-095-11	CARBON	470 5% 1/2W	D5901	8-719-911-19	DIODE 1SS119-25TD	
R863	1-216-049-91	RES-CHIP	1K 5% 1/10W	D5902	8-719-110-88	DIODE MTZJ-T-77-39	
R864	1-216-041-00	RES-CHIP	470 5% 1/10W	D5903	8-719-911-19	DIODE 1SS119-25TD	
R866	1-215-880-00	METAL OXIDE	10 5% 2W	D5904	8-719-110-88	DIODE MTZJ-T-77-39	
R867	1-216-037-00	RES-CHIP	330 5% 1/10W	D5905	8-719-911-19	DIODE 1SS119-25TD	
R879	1-216-073-00	RES-CHIP	10K 5% 1/10W	D5906	1-249-406-11	CARBON	120 5% 1/4W
R880	1-216-041-00	RES-CHIP	470 5% 1/10W	D5907	1-249-406-11	CARBON	120 5% 1/4W
R882	1-216-049-91	RES-CHIP	1K 5% 1/10W				
R884	1-216-025-91	RES-CHIP	100 5% 1/10W				

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

VM1

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<COIL>							
L5901	1-414-187-11	INDUCTOR	47UH				
L5902	1-414-856-11	INDUCTOR	10UH				
<TRANSISTOR>							
Q5901	8-729-230-45	TRANSISTOR 2SC2458TP-YGR					
Q5902	8-729-809-26	TRANSISTOR 2SA1606-E					
Q5903	8-729-230-45	TRANSISTOR 2SC2458TP-YGR					
Q5904	8-729-119-76	TRANSISTOR 2SA1175TP-HFE					
Q5905	8-729-230-45	TRANSISTOR 2SC2458TP-YGR					
Q5906	8-729-809-29	TRANSISTOR 2SC4159-E					
Q5908	8-729-119-78	TRANSISTOR 2SC2785TP-HFE					
Q5909	8-729-119-78	TRANSISTOR 2SC2785TP-HFE					
<RESISTOR>							
R5901	1-247-815-91	CARBON	220	5%	1/4W		
R5902	1-249-414-11	CARBON	560	5%	1/4W		
R5903	1-247-734-11	CARBON	39	5%	1/2W		
R5904	1-249-411-11	CARBON	330	5%	1/4W		
R5905	1-249-417-11	CARBON	1K	5%	1/4W		
R5906	1-249-417-11	CARBON	1K	5%	1/4W		
R5907	1-249-417-11	CARBON	1K	5%	1/4W		
R5908	1-249-383-11	CARBON	1.5	5%	1/4W		
R5909	1-247-815-91	CARBON	220	5%	1/4W		
R5910	1-249-403-11	CARBON	68	5%	1/4W		
R5911	1-249-439-11	CARBON	68K	5%	1/4W		
R5912	1-249-437-11	CARBON	47K	5%	1/4W		
R5914	1-249-403-11	CARBON	68	5%	1/4W		
R5915	1-249-429-11	CARBON	10K	5%	1/4W		
R5916	1-249-419-11	CARBON	1.5K	5%	1/4W		
R5917	1-249-416-11	CARBON	820	5%	1/4W		
R5918	1-249-429-11	CARBON	10K	5%	1/4W		
R5919	1-249-417-11	CARBON	1K	5%	1/4W		
R5920	1-249-439-11	CARBON	68K	5%	1/4W		
R5921	1-216-476-11	METAL OXIDE	180	5%	3W		
R5922	1-249-414-11	CARBON	560	5%	1/4W		
R5923	1-249-383-11	CARBON	1.5	5%	1/4W		
R5925	1-249-400-11	CARBON	39	5%	1/4W		
R5929	1-215-880-00	METAL OXIDE	10	5%	2W		
R5930	1-249-413-11	CARBON	470	5%	1/4W		
R5931	1-249-413-11	CARBON	470	5%	1/4W		
R5932	1-249-413-11	CARBON	470	5%	1/4W		
R5933	1-249-413-11	CARBON	470	5%	1/4W		
R5934	1-249-430-11	CARBON	12K	5%	1/4W		
R5935	1-249-429-11	CARBON	10K	5%	1/4W		

MISCELLANEOUS							

\triangle	1-419-323-11	COIL, DEGAUSSING					
	1-452-094-00	CIRCULAR DISC MAGNET B					
	1-452-032-00	MAGNET,DISC					
	1-452-896-11	COIL, NA ROTATION (RT200)					
\triangle	1-574-358-11	CORD, POWER (WITH CONNECTOR) 7.5A/250V					
	1-529-563-11	SPEAKER (15X6.5CM)					
\triangle	8-735-057-05	PICTURE TUBE (M68LNH070X)					
\triangle	8-451-494-31	DEFELCETION YOKE (Y29RSA-S)					
	8-453-011-11	NA299-M					

ACCESORIES AND PACKING MATERIALS							

	3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)					
	3-868-153-22	MANUAL, INSTRUCTION					
*	4-029-168-01	BAG, PROTECTION					
*	4-054-319-01	TRAY					
	4-065-210-01	JOINT					
*	4-066-926-03	CUSHION (UPPER) (ASSY)					
*	4-066-927-02	CUSHION (LOWER) (ASSY)					
*	4-072-935-01	INDIVIDUAL CARTON					
	4-392-003-11	BAND, HOLD					
	4-392-004-11	CLIP					

REMOTE COMMANDER							

	1-418-163-11	REMOTE COMMANDER (RM-952)					
	9-939-679-01	BATTERY COVER, REMOTE COMMANDER					

KV-XG29M21
RM-952

9-872-208-01

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Sony Technology Malaysia Sdn. Bhd.
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