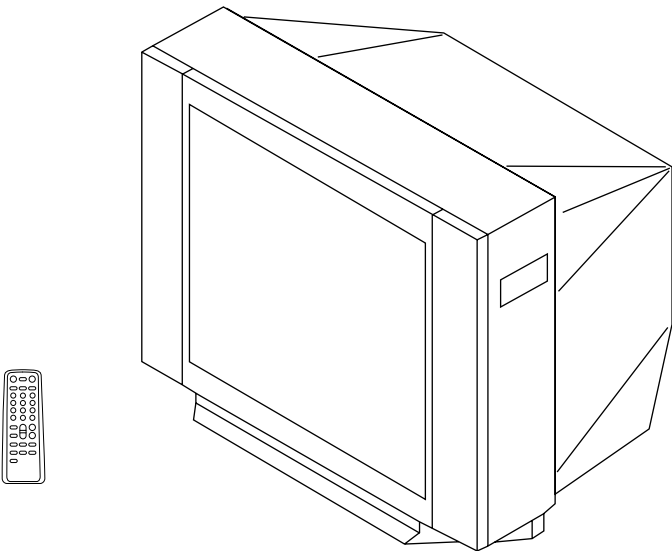


SERVICE MANUAL

BG-3S CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>	<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
<i>KV-XG29M30</i>	<i>RM-952</i>	<i>Australia</i>	<i>SCC-U23D-A</i>	<i>KV-XG29M81</i>	<i>RM-952</i>	<i>ME</i>	<i>SCC-U30R-A</i>
<i>KV-XG29M50</i>	<i>RM-952</i>	<i>GE</i>	<i>SCC-U12S-A</i>	<i>KV-XG29M90</i>	<i>RM-952</i>	<i>Hong Kong</i>	<i>SCC-U17N-A</i>
<i>KV-XG29M50</i>	<i>RM-952</i>	<i>Malaysia</i>	<i>SCC-U21L-A</i>				
<i>KV-XG29M50</i>	<i>RM-952</i>	<i>Thailand</i>	<i>SCC-U18R-A</i>				
<i>KV-XG29M60</i>	<i>RM-952</i>	<i>Thailand</i>	<i>SCC-U18S-A</i>				
<i>KV-XG29M80</i>	<i>RM-952</i>	<i>ME</i>	<i>SCC-U30S-A</i>				



TRINITRON® COLOR TV
SONY®

SPECIFICATIONS

		Note
Power requirements	110-220 V AC, 50/60 Hz	GE/ME Model
	220-240 V AC, 50/60 Hz	Except GE/ME Model
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	
Stereo/Bilingual system	NICAM Stereo/Bilingual B/G, I; A2 Stereo/Bilingual (German) B/G	KV-XG29M30/XG29M60/ XG29M90 only
Teletext language	English, Arabic, French	KV-XG29M81 only
Channel coverage B/G	VHF : E2 to E12 UHF : E21 to E69 CATV : S01 to S03, S1 to S41	
	VHF : 0 to 12, 5A, 9A UHF : 28 to 69 CATV : S01 to S03, S1 to S41	Australia only
	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	
ㄗ (Antenna)	75-ohm external terminal	
Audio output	5W + 5W	
Number of terminal		
Ⓜ (Video)	Input: 2 Output: 1	Phono jacks; 1 V _{P-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 occurred if the screen displays a "0".

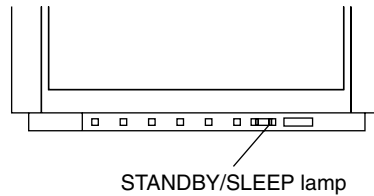
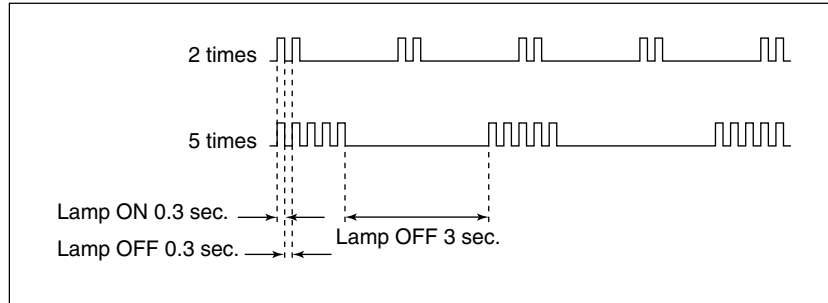
Diagnostic Item Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic display/Diagnostic result	Probable Cause Location	Detected Symptoms
• Power does not turn on	Does not light	—	• Power cord is not plugged in. • Fuse is burned out F8601 (B6)	• Power does not come on. • No power is supplied to the TV. • AC power supply is faulty.
• +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	• H.OUT Q511 is shorted. (A board) • IC701 is shorted. (C6 board) • -13V is not supplied. (A board) • IC 503 faulty (A board)	• 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	• G2 is improperly adjusted. (Note 2) • CRT problem. • Video OUT IC701 is faulty. (C6 board) • IC301 is faulty. (A board) • No connection A board to C6 board.	• No raster is generated. • CRT cathode current detection reference pulse output is small.
• Micro reset	—	101:00 or 101:001~225	• Discharge CRT (C6 Board) • Static discharge • External noise	• 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



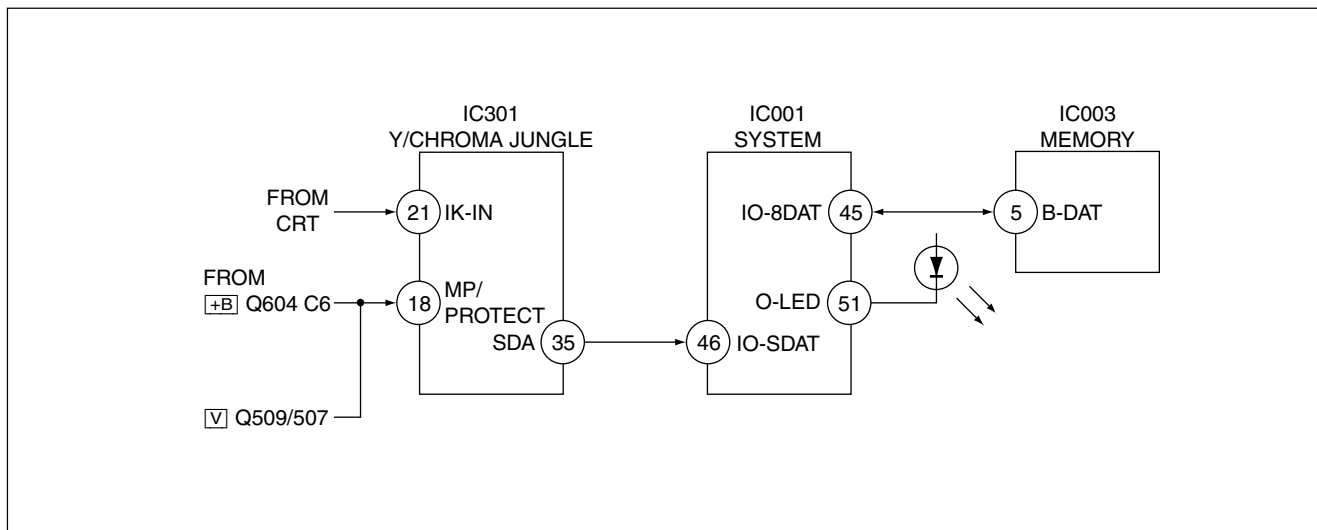
<u>Diagnostic Item</u>	<u>Flash Count*</u>
+B overcurrent/overvoltage Vertical deflection stopped	2 times
White balance failure	5 times

* 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.

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.

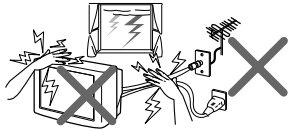
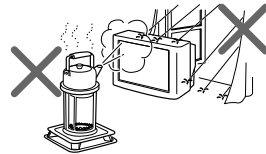
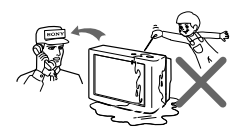
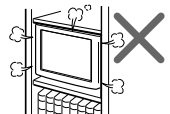
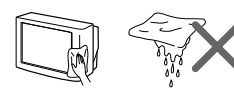
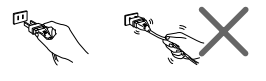
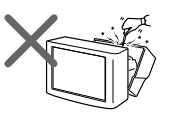
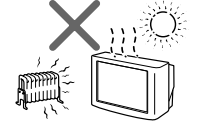
* (Refers to the RGB levels of the AKB detection Ref pulse that detects IK.)

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.

SECTION 1 GENERAL

WARNING

- Dangerously high voltages are present inside the TV.
- Operate the TV only between 110 – 240 V AC (For GE and ME). (For Australia, Thailand, Hong Kong and Malaysia only: 220 – 240 V AC).

 For your own safety, do not touch any part of the TV, the power cord and the antenna cable during lightning storms.	 Install the TV in a stable position. Do not allow children to climb onto it.
 To prevent fire or shock hazard, do not expose the TV to rain or moisture.	 Do not operate the TV if any liquid or solid object falls into it. Have it checked immediately by qualified personnel only.
 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 benzene, 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 plug in too many appliances to the same power socket. Do not damage the power cord.
 Do not open the cabinet and the rear cover of the TV. Refer servicing to qualified personnel.	 Do not install the TV in hot, humid or excessively dusty places.

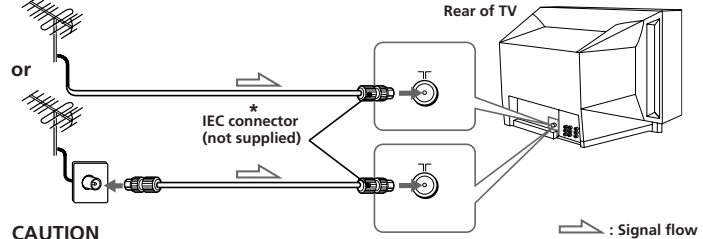
Using Your New TV

Getting Started

Step 1

Connect the antenna (* Antenna cable is not supplied for Thailand model).

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

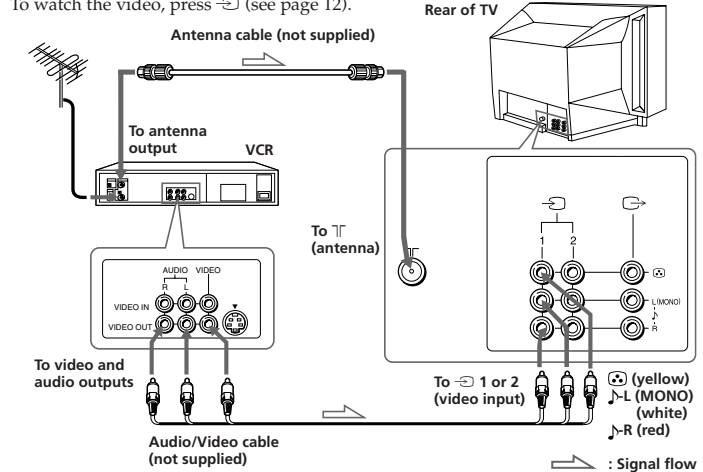


CAUTION

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).

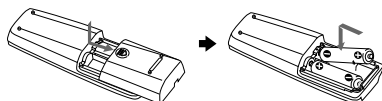


Notes

- If you connect a monaural VCR, connect the yellow plug to (yellow jack) and the black plug to (MONO) (the white jack).
- If you connect a VCR to the (antenna) terminal, preset the signal output from the VCR to the program number 0 on the TV.
- Do not connect video equipment to the (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.

Step 2

Insert the batteries into the remote

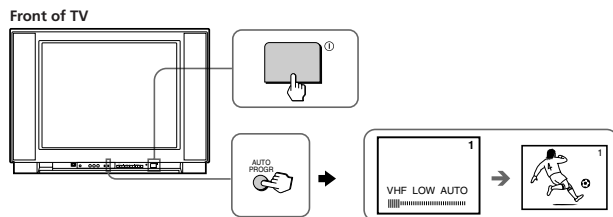


Note

- 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).

Note (KV-XG29M50/XG29M80/XG29M81 only)

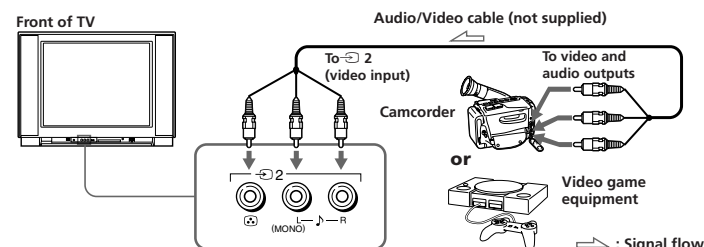
- During automatic channel presetting, your TV screen will indicate "B/G", "I", "D/K" or "M" for the TV system.

Connecting optional components

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 (see page 12).

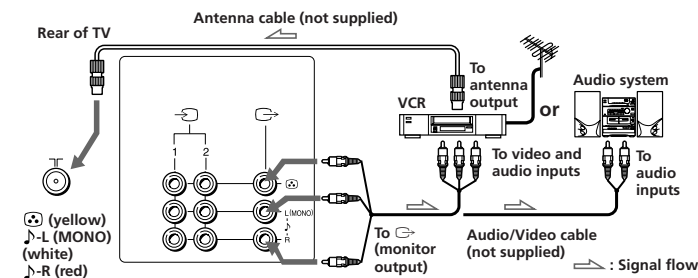
Connecting a camcorder/video game equipment using the (video input) jacks



Notes

- You can also connect video equipment to the (video input) jacks at the rear of your TV.
- Do not connect video equipment to the (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 (monitor output) jacks



Note

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

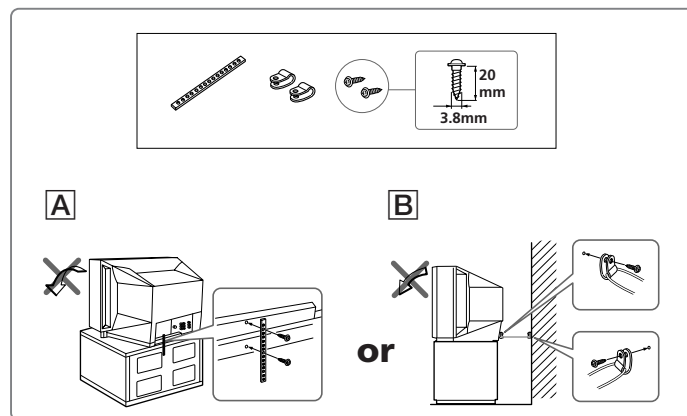
Securing the TV

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.



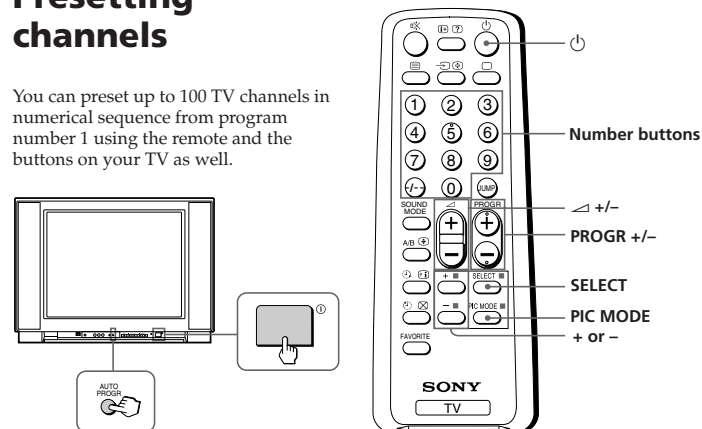
Note

- Use only the supplied screws. Use of other screws may damage the TV.

Using Your New TV

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.



VHF LOW AUTO

Note (KV-XG29M50/XG29M80/XG29M81 only)

- During automatic channel presetting, your TV screen will indicate "B/G", "I", "D/K" or "M" for the TV system.

To preset channels automatically from a specified program number

- Press SELECT until "AUTO PROGRAM" appears.
- Press + or -.
The on-screen display will start flashing.
- Press PROGR +/- or the number buttons until the desired program number appears.
- 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.

Note

- If you preset a locked channel, that particular channel will be unlock automatically (page 17).

To change the TV system setting

If the picture or sound is abnormal when receiving programs through the ㄗ (antenna) terminal

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

TV SYS: B/G

- (2) Press + or – to select the appropriate TV system until the picture or sound quality is optimal.

B/G → I → D/K → M

continued

Using Your New TV 9

Presetting channels (continued)

To change the color system setting

If the color is abnormal when receiving programs through the ㄗ (antenna) terminal or the ㄚ (video input) jack.

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

COL SYS: AUTO

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

AUTO → PAL → SECAM
NTSC 4.43 ← NTSC 3.58 ←

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 ㄠ +/- 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-XG29M61 only), double images and lines moving across the TV screen.

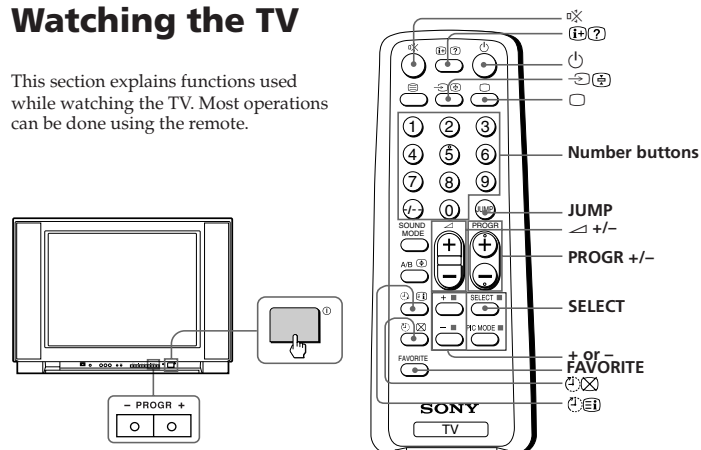
You can use the fine tuning function as below:

- (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 ㄠ to display "FINE" on the screen.
- (5) Press + or – continuously until the above problems are minimized.
The + or – icon on the screen flashes while tuning.
- (6) Press SELECT to return to normal screen.

10 Using Your New TV

Watching the TV

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



Using Your New TV

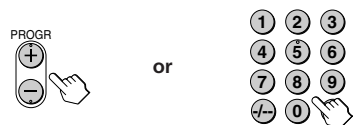
1 Press to turn on the TV.

When the TV is in the standby mode (the indicator on the TV is lit red), press 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 , then the number (e.g., for 25, press , then 2 and 5).



3 Press to adjust the volume.



Watching the TV (continued)

Additional tasks

To	Do this
Turn off temporarily	Press . The indicator on the TV lights up red.
Turn off completely	Press on the TV.
Mute the sound	Press .
Watch the video input (VCR, camcorder, etc.)	Press to select "VIDEO 1" or "VIDEO 2". To return to the TV program, press .
Jump back to the previous channel	Press JUMP.
Display the on-screen information*	Press .
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.

PIC ROTATION

The or icon on the screen flashes while adjusting.

* The picture, sound, and either the program number or video mode are displayed. The on-screen display for the picture and sound information disappears after about 3 seconds.

Changing the on-screen display language (Except Thailand and ME model)

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



2 Press + or - to select "中文".



Tip

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

continued

**Changing the on-screen display language
(For Thai Model)**

1

Press SELECT until "LANGUAGE / ภาษา: ENGLISH" appears on the screen.

SELECT



→

LANGUAGE / ภาษา: ENGLISH

2

Press + or – to select "ไทย".

+

–



→

ภาษาไทย / LANGUAGE : ไทย

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

**Changing the on-screen display language
(For ME model)**

1

Press SELECT until "LANGUAGE / اللغة : ENGLISH" appears on the screen.

SELECT



→

LANGUAGE / اللغة : ENGLISH

2

Press + or – to select "عربي".

+

–



→

LANGUAGE / اللغة : عربي

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

Setting the Wake Up timer

- Press  until the desired period of time appears.
The Wake Up timer starts immediately after you have set it.
- Select the TV program or video mode you want to display when you wake up.
- Press  or set the Sleep timer if you want the TV to turn off automatically.
The  indicator on the TV lights up orange.

To cancel the Wake Up timer

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

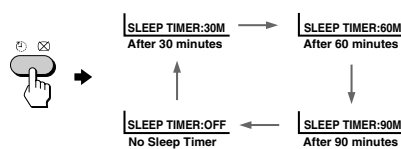
Note

- 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  until the desired period of time appears.

The Sleep timer starts immediately after you have set it.



To cancel the Sleep timer

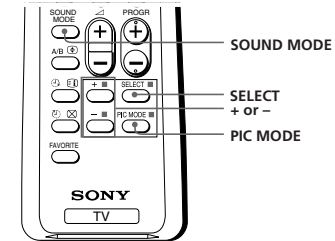
Press  until "SLEEP TIMER: OFF" appears or turn the TV off.

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.

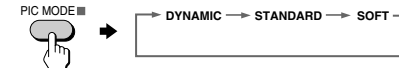
You can change the sound effect by selecting the surround mode.



Selecting the picture and sound modes

To select the picture mode

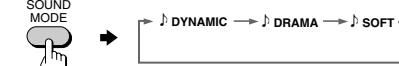
Press PIC MODE repeatedly until you get the desired picture mode.



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

To select the sound mode

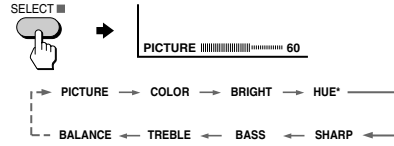
Press SOUND MODE repeatedly until you get the desired sound mode.



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.

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 $\triangle$ +/- 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.

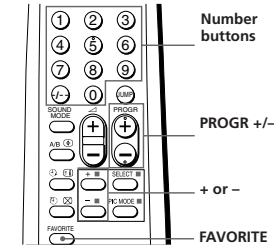


Select	To
"MOVIE"	listen to sound that spreads out over a large area, giving the feeling of being at a movie theatre.
"MUSIC"	listen to the sound that gives the feeling of being at a live concert.
"OFF"	turn off the surround sound.

Advanced Operations

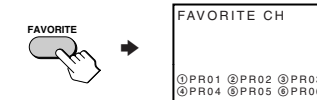
Viewing your favorite channels

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.



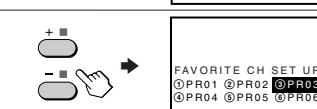
When you use the "FAVORITE CH" feature for the first time, six preset channels will appear.

Changing the favorite channel setting

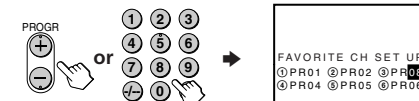
- 1 Press SELECT until "FAVORITE CH SET UP" appears.



- 2 Press + or - to select the favorite channel you want to change (e.g. ③ PR03).



- 3 Press PROGR +/-, or number buttons to change the program number.

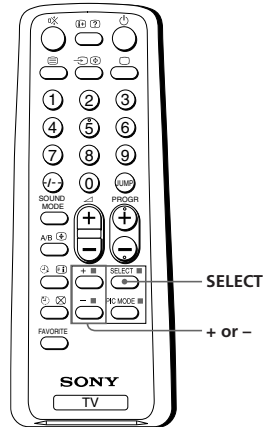


- 4 Repeat steps 2 and 3 to set other favorite channels.

- 5 Press SELECT.

Blocking the channels (CHILD LOCK)

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



1 Select the channel you want to lock.

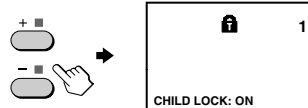
2 Press SELECT until "CHILD LOCK" appears on the screen.



3 Press + or - to select "ON".

The  symbol appears on the screen.

To unlock the channel, press + or - to select "OFF". The  symbol disappears from the screen.



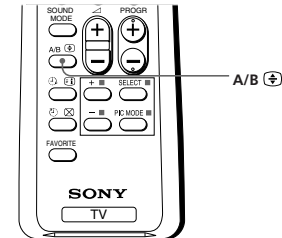
Note

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

Enjoying stereo or bilingual programs

(KV-XG29M30/XG29M60/XG29M90 only)

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

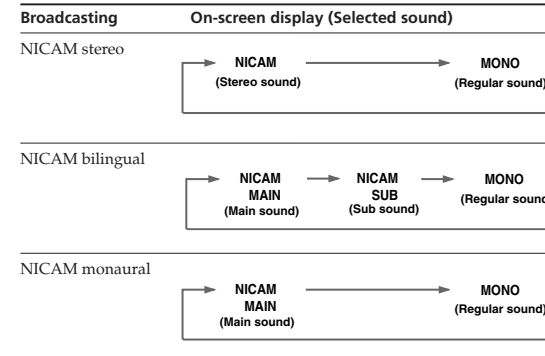


Press A/B repeatedly until you receive the sound you want.

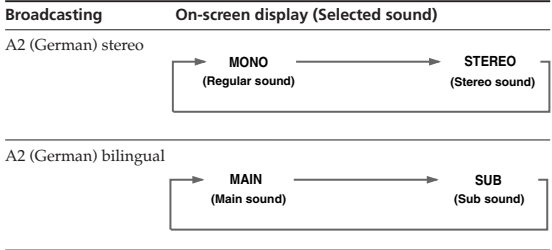
The on-screen display changes to show the selected sound and the  indicator on the TV lights up red.



When receiving a NICAM program



When receiving an A2 (German) program



Receiving area for NICAM and A2 (German) programs

System	Receiving area
NICAM	Hong Kong, Singapore, New Zealand, Malaysia, Thailand, etc.
A2 (German)	Australia, Malaysia, Thailand, etc.

- Notes
- If the signal is very weak, the sound becomes monaural automatically.
 - If the stereo sound is noisy when receiving a NICAM program, select "MONO". The sound becomes monaural, but the noise is reduced.

If the sound is distorted or noisy when receiving a monaural program through the ㄗ (antenna) terminal

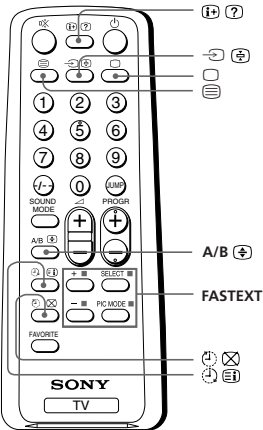
Press A/B repeatedly until "MONO" appears on the screen.
To cancel the monaural sound setting, press A/B again until "AUTO" appears on the screen.



- Notes
- The "MONO" or "AUTO" setting is memorized for each program position.
 - You cannot receive stereo broadcast signal when the TV is in the "MONO" setting. Normally set the TV to "AUTO".

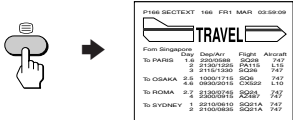
Viewing Teletext (KV-XG29M81 only)

TV stations broadcast an information service called Teletext via some TV channels. Teletext allows you to receive various information, such as shares market or news.



Displaying Teletext

- 1 Select a TV channel that carries the Teletext broadcast you want to watch.
- 2 Press ㄢ to display the text.
A Teletext page (normally the index page) is displayed. If there is no Teletext broadcast, "100" is displayed at the top left corner of the screen.



To turn off Teletext
Press ㄢ.

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  to display the symbol “  ” at the top left corner of the screen. To resume normal Teletext operation, press  or  .
reveal concealed information (e.g., an 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

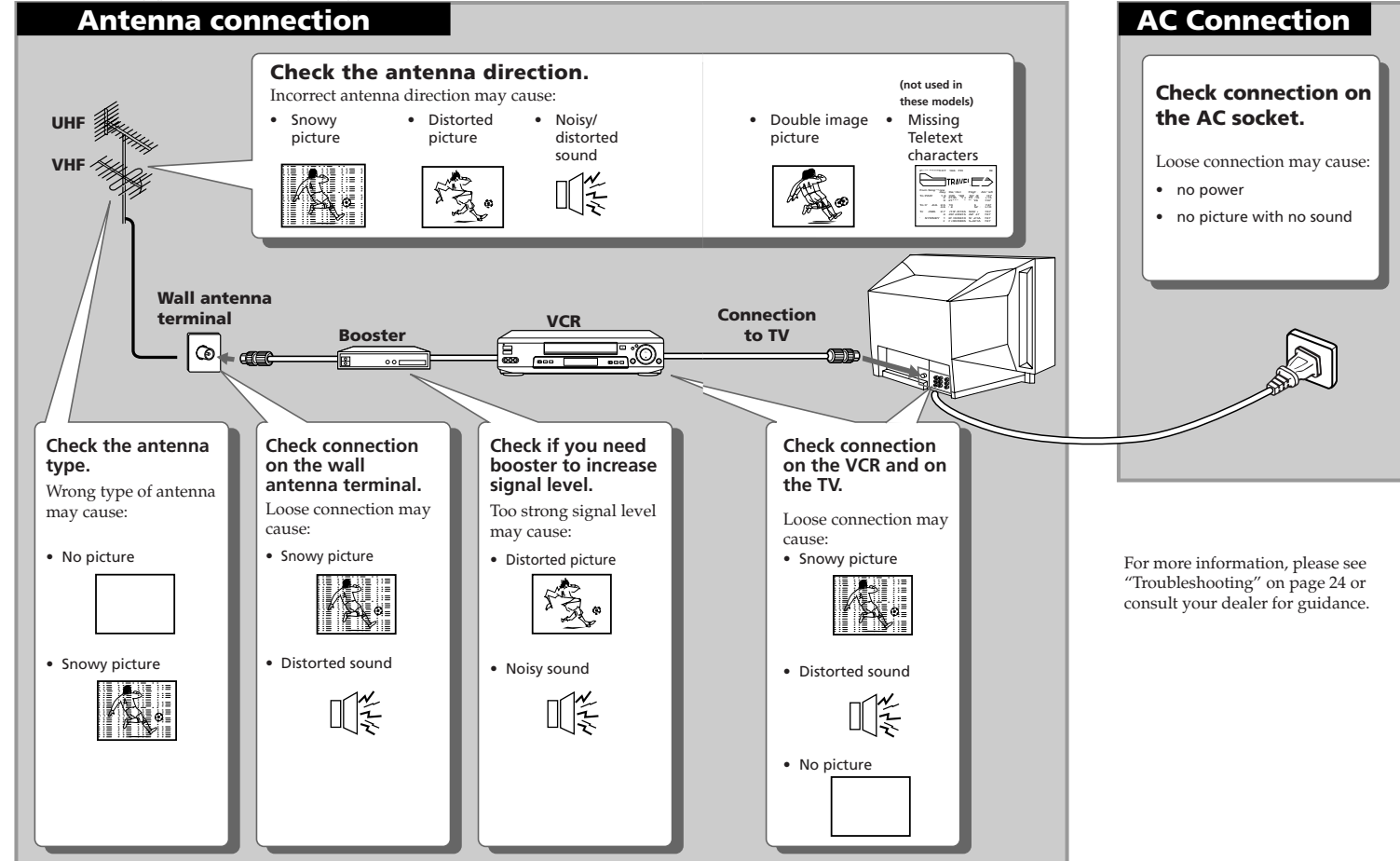
Press the color-coded button on the remote corresponding to the menu you want. The menu page appears on the screen after several seconds.

Additional Information

Troubleshooting Shortcuts

(For GE/Malaysia model only)

For better viewing, please check the following connections.



Additional Information

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 	- Connection is loose or the cable is damaged. - Channel presetting is inappropriate or incomplete.	- 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.	4 9
Noisy sound 	- The antenna type is inappropriate. - The antenna direction is inappropriate. - Signal transmission is low.	- 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.	– – –
Distorted picture 	Broadcast signals are too strong.	Turn off or disconnect the booster if it is in use.	–
Noisy sound 			
Good picture 	The TV system setting or channel presetting is inappropriate or incomplete.	- If the sound of all the channels are noisy, check the TV system (TV SYS) setting, then press AUTO PROGR 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
Noisy sound 	The selected sound is inappropriate.	If the sound of some channels are noisy, select the channel, then press A/B to select the main sound (KV-XG29M30/XG29M60/XG29M90 only).	18
No picture 	- The power cord, antenna or VCR is not connected. - The TV is not turned on.	- Check the power cord, antenna and the VCR connections. - Press (power). - Press (main power) on the TV to turn off the TV for about five seconds, then turn it on again.	4 12 11
No sound 			

Symptom	Possible cause	Solutions	Page
Good picture 	- The volume level is too low. - The sound is muted.	- Press + to increase the volume level. - Press to cancel the muting.	11 12
No sound 	Broadcast signal has a transmission problem.	Press A/B until a better sound is heard (KV-XG29M30/XG29M60/XG29M90 only).	18
Dotted lines or stripes 	There is local interference from cars, neon signs, hair dryers, power generators, etc.	- 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.	– –
Double images or "ghosts" 	- Broadcast signals are reflected by nearby mountains or buildings. - The antenna direction is inappropriate. - Use of a booster is inappropriate.	- Use a highly directional antenna. - Use the fine tuning (FINE) function. - Adjust the antenna direction. Contact a Sony dealer for advice. - Turn off or disconnect the booster if it is in use.	– 10 –
No color 	- The color level setting is too low. - The color system setting is inappropriate. - The antenna direction is inappropriate.	- 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"). - Adjust the antenna direction. Contact a Sony dealer for advice.	15 10 –
Abnormal color patches 	The magnetic disturbance from external speakers or other equipment, or the direction of the earth's magnetic field may affect the TV.	Keep external speakers or other electrical equipment away from the TV. Do not move the TV while the TV is turned on. Press (main power) on the TV to turn off the TV for about five minutes, then turn it on again.	–
TV cannot receive stereo broadcast signal (KV-XG29M30/XG29M60/XG29M90 only)	The stereo reception setting is inappropriate.	Press A/B until "AUTO" appears on the screen.	18

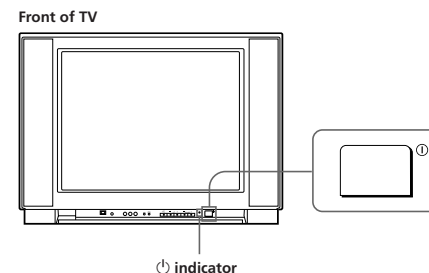
continued

Troubleshooting (continued)

Symptom	Possible cause	Solutions	Page
Stereo broadcast sound switches on and off or is distorted. Or The sound switches between monaural and stereo frequently. (KV-XG29M30/XG29M60/ only)	• Connection is loose or the cable is damaged.	• Check the antenna cable and connection on the TV, VCR, and on the wall.	4
	• The antenna direction is inappropriate.	• Adjust the antenna direction. Contact a Sony dealer for advice.	–
	• Broadcast signal has a transmission problem.	• Press A/B until a better sound is heard.	18
“100” appears on the top of the screen and there is no Teletext display. (KV-XG29M81 only)	• The channel carries no Teletext broadcast.	—	20
Teletext display is incomplete (snowy picture or double images). (KV-XG29M81 only)	• Connection is loose or the cable is damaged.	• Check the antenna cable and connection on the TV, VCR, and at the wall.	4
	• The antenna direction is inappropriate.	• Adjust the antenna direction. Contact a Sony dealer for advice.	–
	• Signal transmission is too low.	• Try using a booster. • Use the fine tuning (FINE) function.	10
Picture slant 	• The terrestrial magnetism affects your TV set.	• Please “SELECT” until “PIC ROTATION” appears on the screen, then press + or – to aglin the picture to the TV screen.	12
Lines moving across the TV screen.	• There is interference from external sources, e.g., heavy machineries, nearby broadcast station.	• Use the fine tuning (FINE) function.	10
The ⏻ 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.	27
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.	—	–

Self-diagnosis function

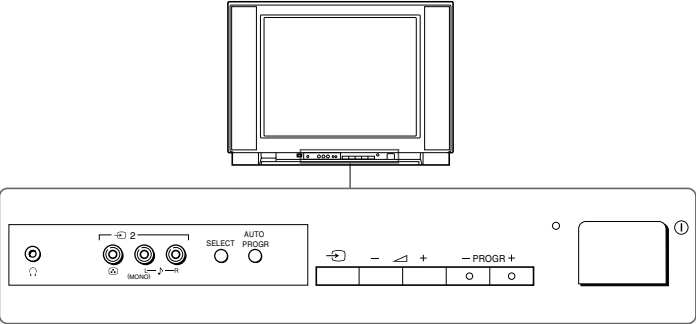
Your TV is equipped with a self-diagnosis function. If there is a problem with your TV, the ⏻ indicator flashes red. The number of times the ⏻ indicator flashes indicates the possible causes.



- 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 ① (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.

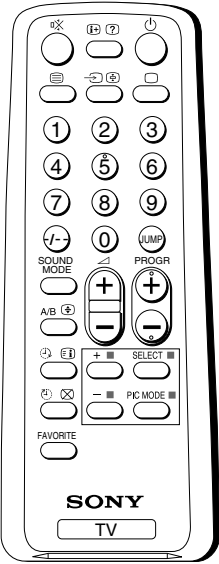
Identifying parts and controls

Front panel



Button	Function	Page
AUTO PROGR	Preset channels automatically.	5
SELECT	Select the desired item.	9
PROGR +/-	Select program number.	11
⓪	Turn off completely or turn on the TV.	11
⏮ +/-	Adjust volume.	11
⏮	Select TV or video input.	12
🔊	Headphone jack.	-

Remote Control



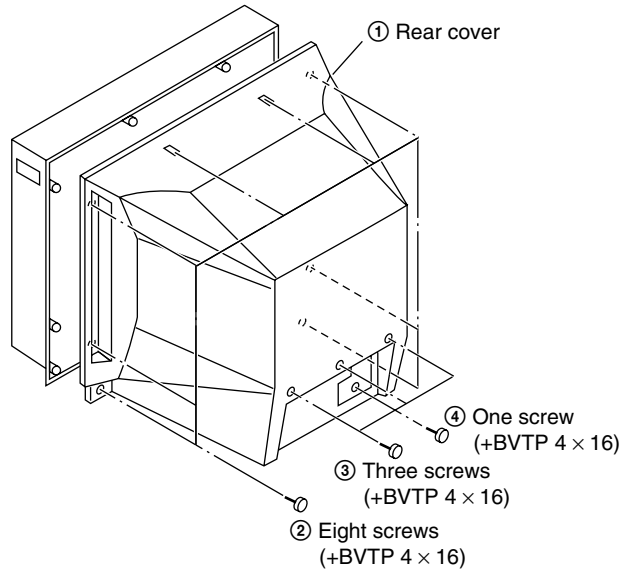
The names/symbols of buttons on the remote are indicated in different colors to represent the available functions.

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

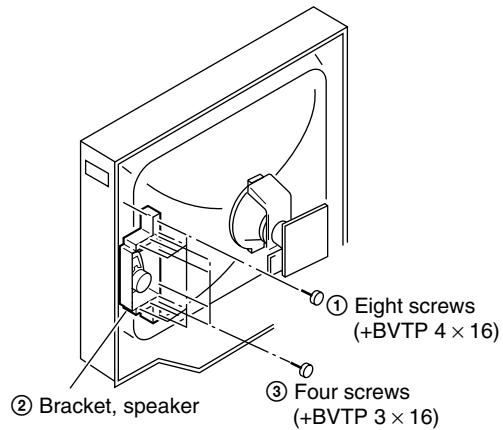
Button	Function	Page
SELECT	Select the desired item.	9
+/-	Adjust value.	9
PROGR +/-	Select program number.	11
0 - 9, +/-	Input numbers.	11
⏮ +/-	Adjust volume.	11
🔊	Turn off temporarily or turn on the TV.	12
⏮	Select TV or video input.	12
📺	Display the TV program.	12
🔊	Mute the sound.	12
ℹ	Display on-screen information.	12
JUMP	Jump to previous channel.	12
Timer operations		
⌚	Set TV to turn on automatically.	13
⌚	Set TV to turn off automatically.	13
PIC MODE	Select picture mode.	14
SOUND MODE	Select sound mode.	14
FAVORITE	Display favorite channels.	16
Stereo/bilingual operations (KV-XG29M30/XG29M60/M90 only)		
A/B	Select stereo/bilingual mode.	18
Teletext operations (KV-XG29M81 only)		
📺	Display Teletext broadcast.	20
⏏	Enlarge the Teletext display.	21
?	Reveal concealed information.	21
⏏	Stop Teletext page from scrolling.	21
ℹ	Display Teletext service contents.	21
🔊	Show TV screen while waiting for Teletext page.	21
■ (red, green, yellow, blue)	Access a FASTEXT menu.	21

SECTION 2 DISASSEMBLY

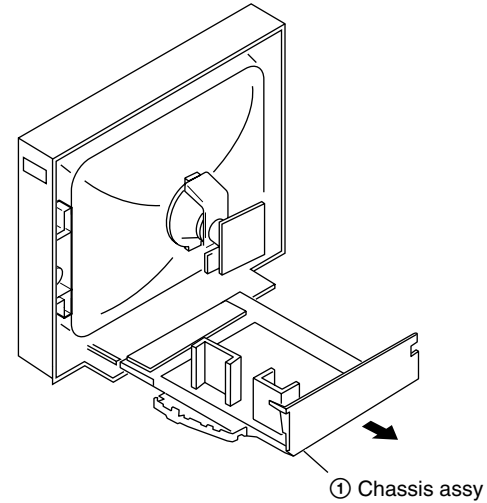
2-1. REAR COVER REMOVAL



2-2. SPEAKER REMOVAL

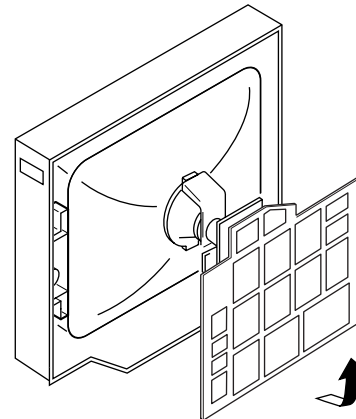


2-3. CHASSIS ASSY REMOVAL



2-4. SERVICE POSITION

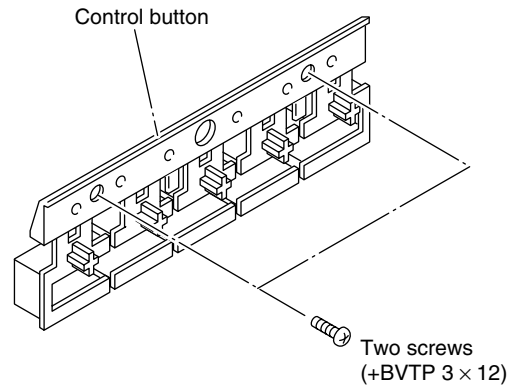
(Note: Remove F Bracket first.)



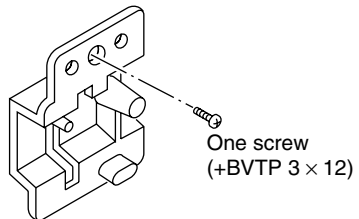
2-5. REPLACEMENT OF PARTS

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

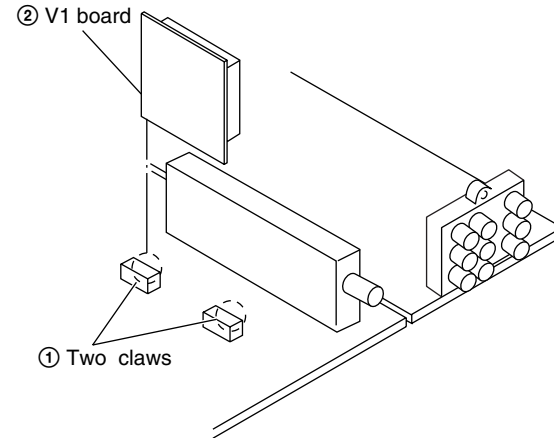
2-5-1. REPLACEMENT OF CONTROL BUTTON



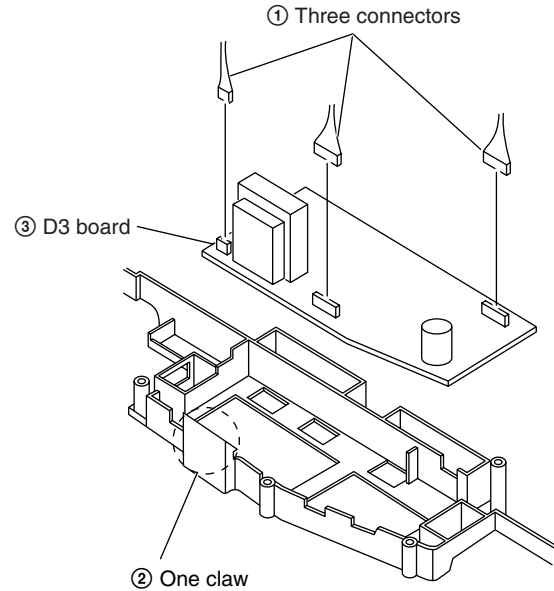
2-5-2. REPLACEMENT OF LIGHT GUIDE



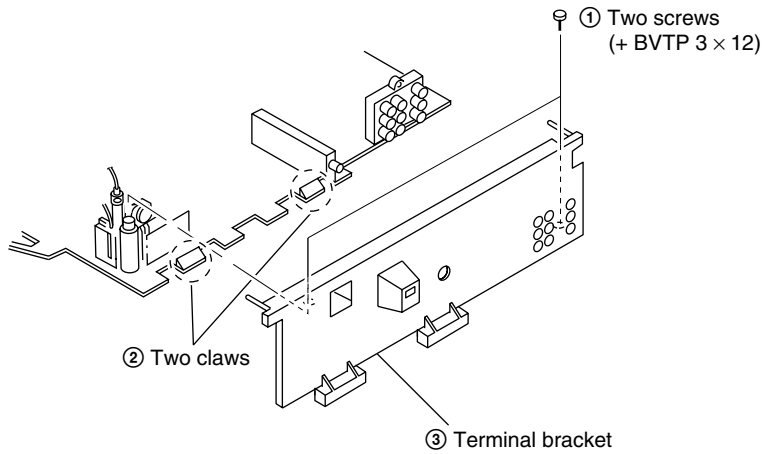
2-6. V1 BOARD REMOVAL (KV-XG29M81 only)



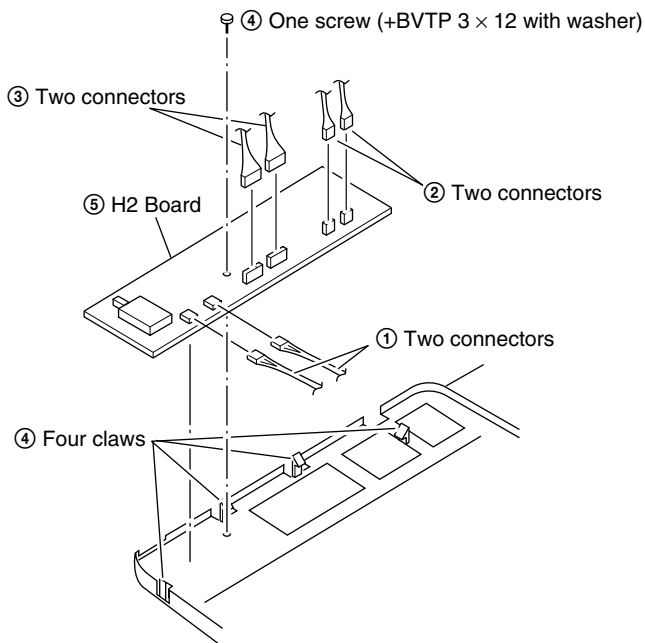
2-7. D3 BOARD REMOVAL



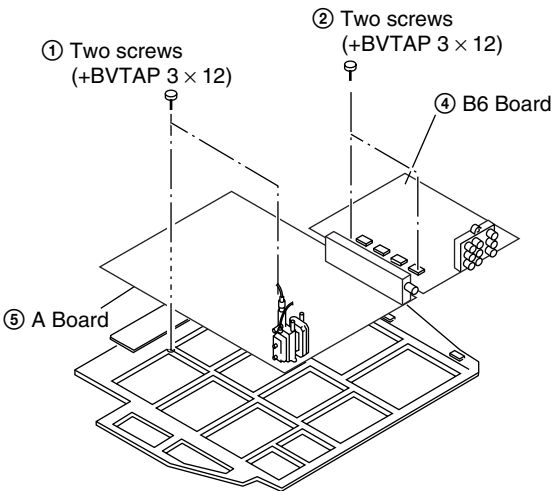
2-8. TERMINAL BRACKET REMOVAL



2-9. H2 BOARD REMOVAL

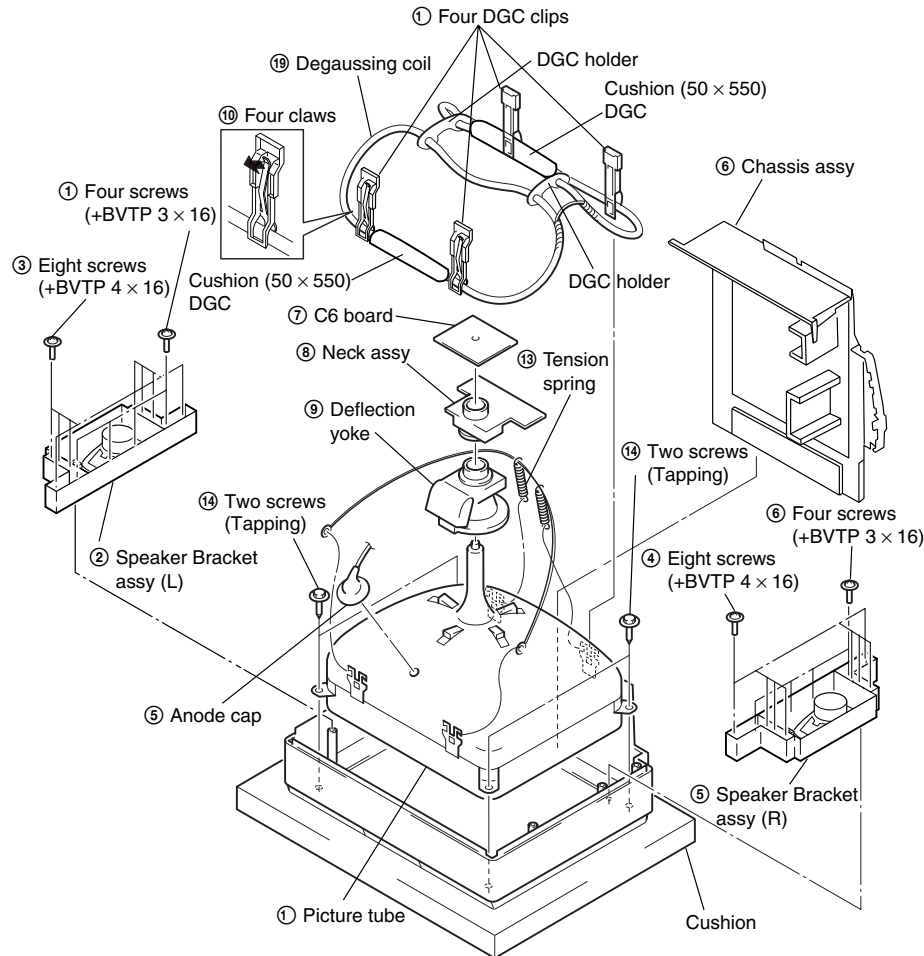


2-10. A AND B6 BOARDS REMOVAL



2-11. PICTURE TUBE REMOVAL

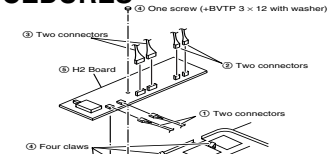
NOTE : The picture tube for Australia model is upside down, and the position for tension spring is changed accordingly.



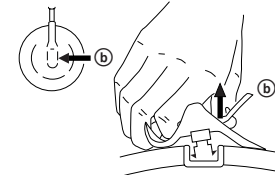
•REMOVAL OF ANODE-CAP

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.

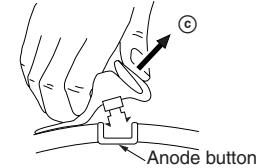
•REMOVING PROCEDURES



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



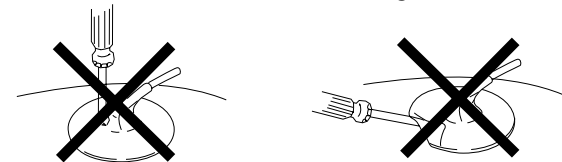
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②.



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 ③.

• 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. A metal fitting called the shatter-hook terminal is built into the rubber.
- ③ Do not turn the foot of rubber over too hard. The shatter-hook terminal will stick out or damage the rubber.



SECTION 3

SET-UP ADJUSTMENTS

KV-XG29M30/XG29M50/XG29M60/
KV-XG29M80/XG29M81/XG29M90
RM-952

- 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

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

1. Input a white signal with the pattern generator.

Contrast	} normal
Brightness	
2. Position neck assy as shown in Fig3-2.
3. Set the pattern generator raster signal to a green raster.
4. 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.)
5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 3-2.)
6. Switch the raster signal to blue, then to red and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws and DY spacers.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
(See Figure 3-5.)

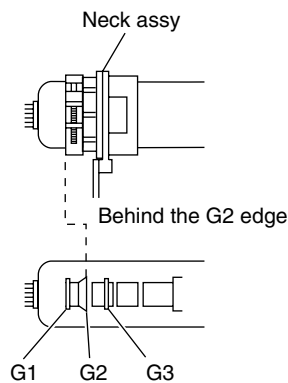


Fig. 3-1

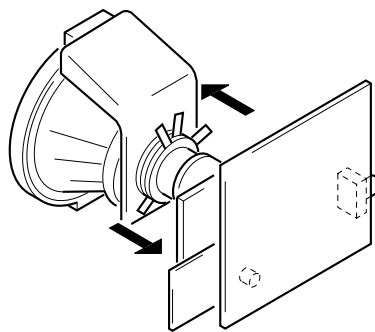


Fig. 3-2

Perform the adjustments in the following order :

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

Note : Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

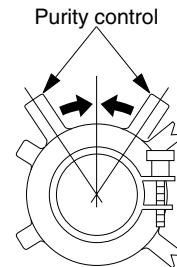


Fig. 3-3

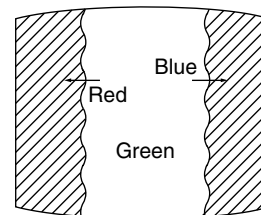


Fig. 3-4

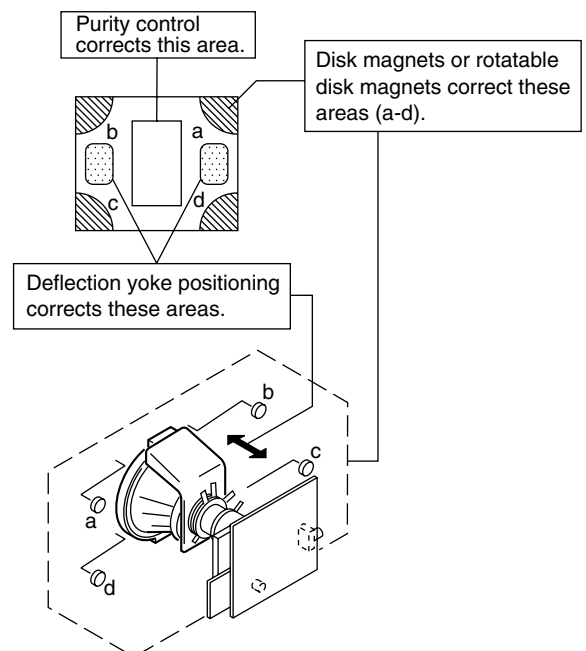


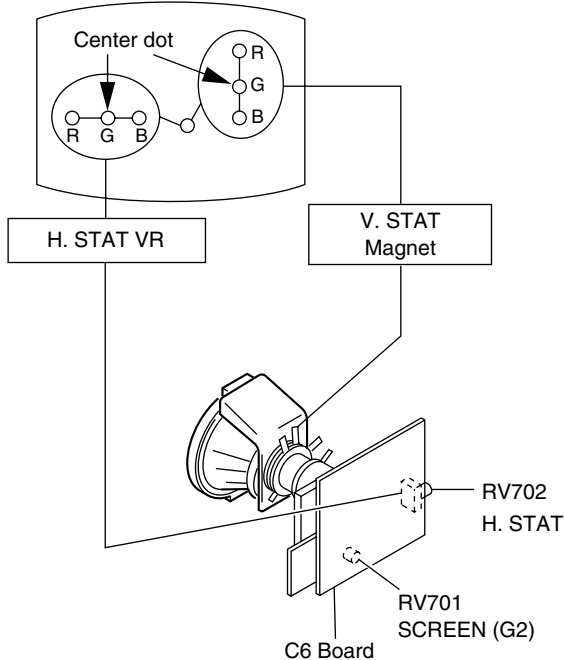
Fig. 3-5

3-2. CONVERGENCE

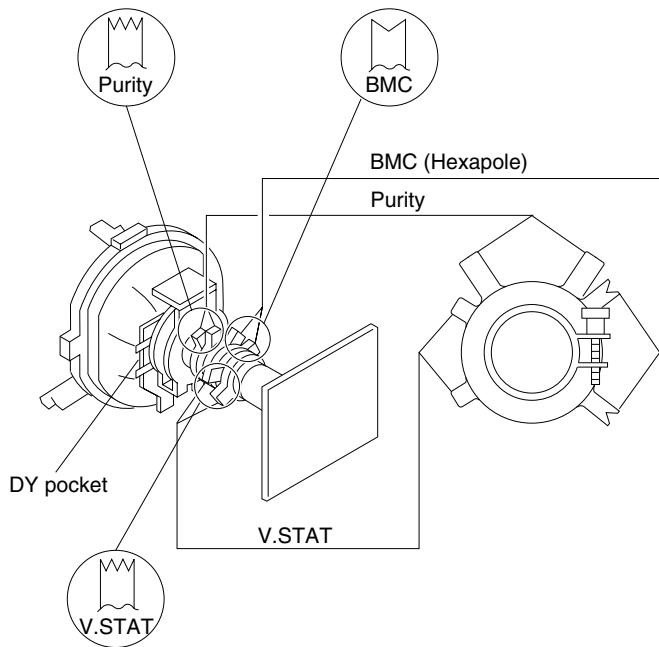
Preparation :

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

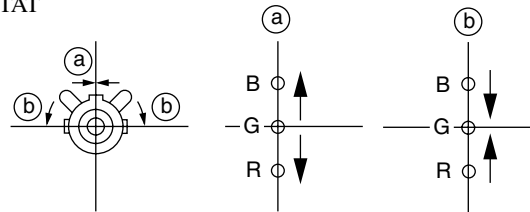
(1) Horizontal and Vertical Static Convergence



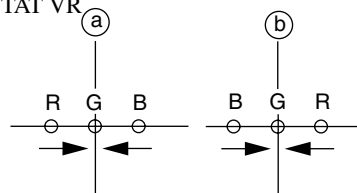
1. (Moving horizontally), adjust the H.STAT control so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
3. If the H.STAT variable 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.)



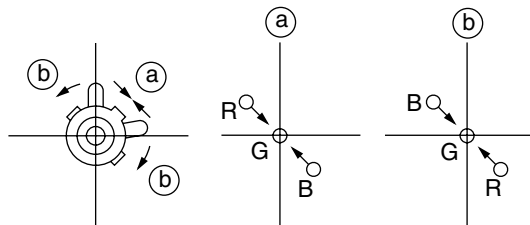
① V. STAT



② H. STAT VR

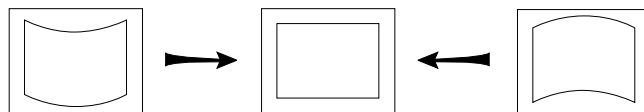
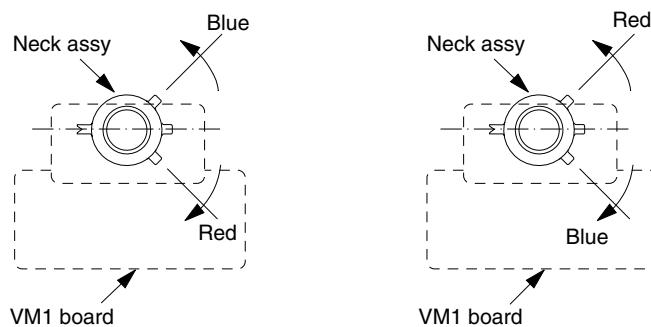
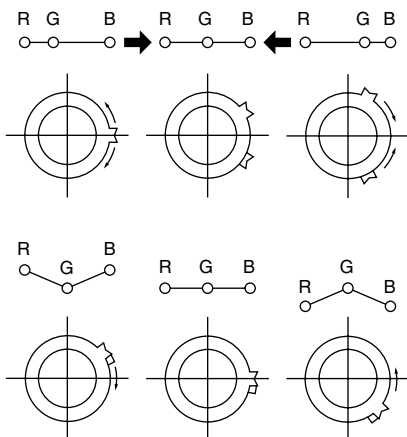


③



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**

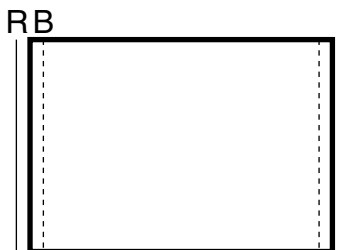
1. The Red and Blue magnets should be equally far from the horizontal center line.
2. Do not separate the Red and Blue magnets too far. (Less than 8 mm)

⑤ Y separation axis correction magnet adjustment.

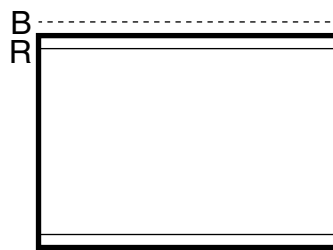
1. Receive the cross-hatch signal and adjust [PICTURE] to [MIN] and [BRIGHTNESS] to [STANDARD] .
2. Adjust the Y separation axis correction magnet on the neck assembly so that the horizontal lines at the top and bottom of the screen are straight.

(2) Dynamic Convergence Adjustment**Preparation:**

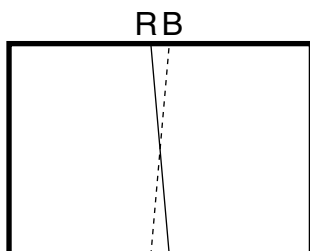
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence



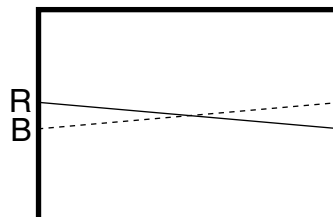
TLH



TLV



YCH



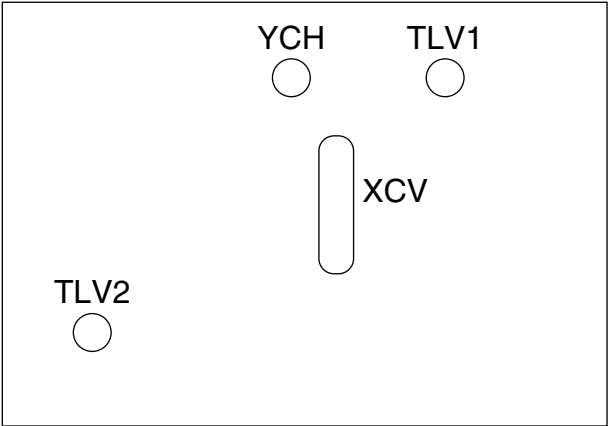
XCV

KV-XG29M30/XG29M50/XG29M60/
KV-XG29M80/XG29M81/XG29M90

RM-952

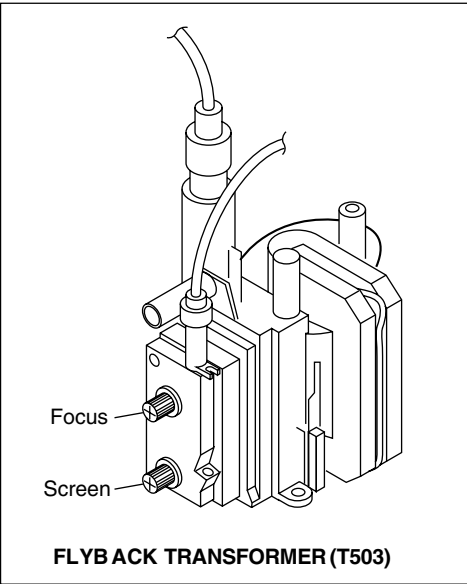
TLV	Rotate	TLV-2	VOL (29", 34") on DY
	Rotate	TLV	VOL (25") on DY
XCV	Rotate	XCV	Adj core on DY
YCH	Rotate	YCH	VOL on DY
TLH	Insert	TLH	Correction Plate to DY Pocket (Left or Right)

ON DY:

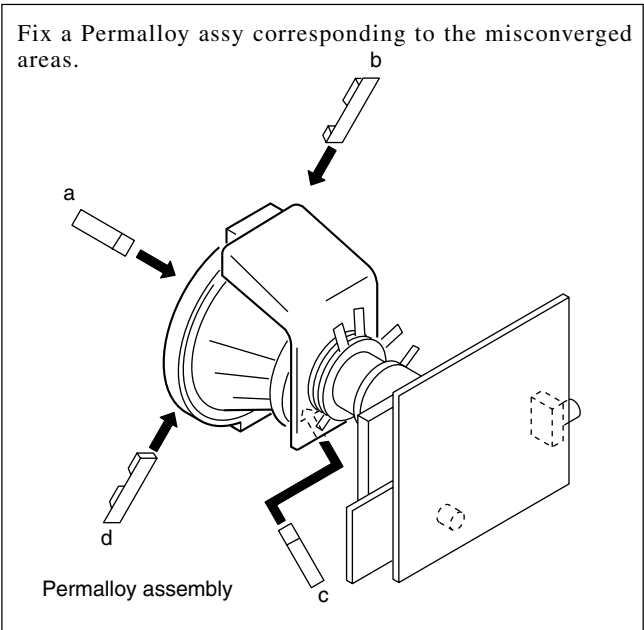
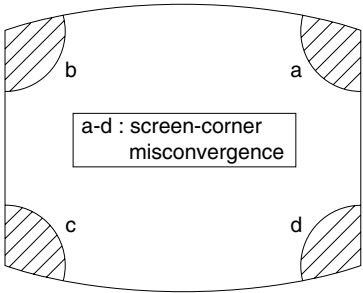


3-3. FOCUS ADJUSTMENT

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



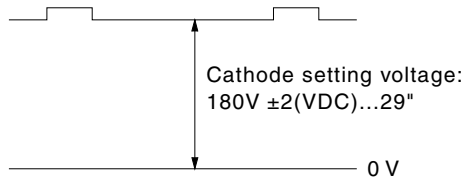
(3) Screen-corner Convergence



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.

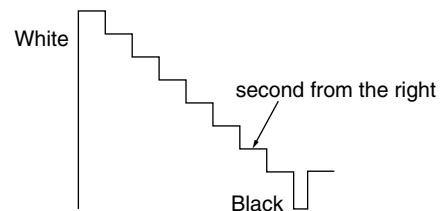


2. WHITE BALANCE ADJUSTMENT

- 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.

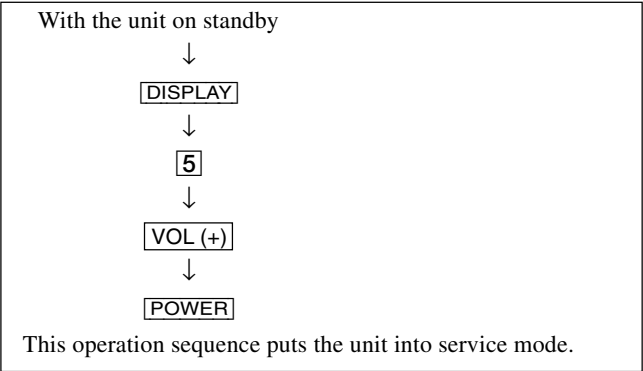


SECTION 4
CIRCUIT ADJUSTMENTS

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

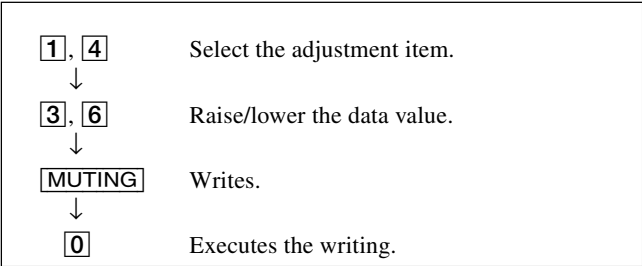
- 1) Set to Service Mode.
- 2) Press **1** (UP) and **4** (DOWN), select an item of adjustment.
- 3) Press **MUTING** button and it will indicate WRITE on the screen.
- 4) Press **0** button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

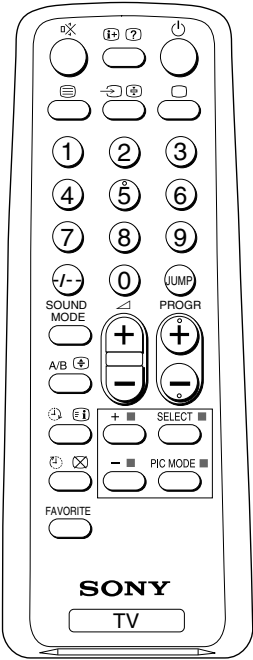
- 1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again to confirm adjustments were made.

The screen display is :

Device Name	Item Name	Item No	Data	Marking of virgin NVM	Mode	
GEO		00	HPS	1C	■	SERVICE 50 ←
625S						PAL, SECAM : 50
626S		1.0C	59	7F	0	NTSC : 60
627S					000A	
Suffix No (OEM Code)						Total Power-On time (hours)
Software version						



- 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 excuting, and back to SERVICE.)

GEO	00	HPS	1F	SERVICE	50	← GREEN
625S	1.0C	59	7F	0	000A	Adjusted with [3] and [6] buttons.
626S						
627S						

GEO	00	HPS	1F	WRITE	50	← GREEN
625S	1.0C	59	7F	0	000A	
626S						
627S						

Written with **[MUTING]**

GEO	00	HPS	1F	SERVICE	50	← RED
625S	1.0C	59	7F	0	000A	The WRITE display then the display returns to a green SERVICE.
626S						
627S						

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		Note	Data Range	Function	Note for Different Data	Register No. (bit)	Slava Address	RAM Address (bit)
	No	Name							
GEO	0	HPS	7	3F	H Position	50/60HZ	12 (7-2)	CXA2130S(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)
WHB	0	RDR	2A	3F	R Drive	DYNAMIC/others	09 (7-2)	CXA2130S(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
SAJ	7	SBR	1F	3F	Sub Brightness Control				98
	0	PMX	33	3F	Picture Maximum Data			CXA2130S(88H)	96
	1	SHU	8	0F	Sub Hue Control	TV/Video			99
	2	SSH	3	0F	Sub Sharpness Control	TV/Video			9A
	3	SCL	1F	3F	Sub Color Control	NTSC/others			9B
VP	0	EHT	4	0F	EHT Comp	50/60HZ	15 (3-0)	CXA2130S(88H)	85 (3-0)
	1	GMA	2	03	Gamma Correction	Refer NVM Map A4	0B (1-0)		1A3 (1-0)
	2	YDL	6	0F	Y Delay	PAL/SECAM/NTSC	0C (3-0)		8C (3-0)
	3	SST	1	03	SECAM ID Start Position		1B (1-0)		6A (1-0)
	4	SSP	1	03	SECAM ID Stop Position		1B (3-2)		6A (3-2)
	5	SLV	2	03	SECAM ID Level		1C (1-0)		6B (1-0)
	6	SBF	22	3F	SECAM BELL fO		1C (7-2)		6B (7-2)
	7	DYC	0	1	Dynamic Color on/off		0A (1)		59 (1)
	8	ABL	1	1	ABL Mode Switching		09 (1)		58 (1)
	9	VTH	1	1	ABL Detection Vth Switching	STANDARD ALWAYS 0	09 (0)		58 (0)
	10	SFO	1	1	FO Switching for Sharpness	NTSC/others	05 (1)		198 (1)
	11	DCX	1	1	DC Trans. Ratio Switching		06 (1)		55 (1)
	12	SHT	1	1	Pre-/Overshoot ratio Switch	NTSC/others	06 (0)		199 (0)

Adjustment Item Table

Device Name	Functionality		Note	Data Range	Function	Note for Different Data	Register No. (bit)	Slava Address	RAM Address (bit)	
	No	Name								
VP	13	HDW	0	1	H Drive Pulse Width Switch	TV/Video/Text	00 (6)		4F (6)	
	14	AFC	1	03	AFC Gain Control		0F (1-0)		8D (1-0)	
	15	HOS	7	0F	H Oscillation		0C (7-4)		5B (7-4)	
	16	HSS	0	1	Slice Level of H Sync Sep.		0D (1)		5C (1)	
	17	VSS	0	1	Slice Level of V Sync Sep.	50/60Hz	0D (0)		5C (0)	
	18	HMS	0	1	Macro Vision C/m off/on		0E (0)		7E (0)	
	19	YUV	0	1	YUV Switch Control		01 (0)		50 (0)	
	20	CDV	1	3	CD mode for Video		0D (5-4)		1A1 (5-4)	
	21	RON	1	1	R ON	video only	01 (3)		50 (3)	
	22	GON	1	1	G ON	not memorized	01 (2)		50 (2)	
	23	BON	1	1	B ON	not memorized	01 (1)		50 (1)	
	24	PON	1	1	P ON	not memorized	00 (7)		4F (7)	
	25	BLK	0	1	BLK Off		12 (0)		61 (0)	
	26	VMC	0	1	VM Off		13 (0)		62 (0)	
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		0.2		1A0 (5-0)	
	2	PHI	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		#4 (3-0)		76 (5-4)	
	5	PH4	0	3	Phase 4 Register Selection				76 (7-6)	
	6	BCS	2	3	Bass Center Shift				#5 (3-0)	1A8 (1-0)
	7	TCS	2	3	Treble Center Shift		#5 (3-0)		1A9 (1-0)	
8	TRF	2	3	RF Treble Offset	#5 (3-0)	1A9 (5-4)				
MSP	0	WST	15	FF	W/G Stereo Threshold			MSP3415D(84H)	157 (7-0)	
	1	WBT	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				BB (7)	108 (7)
	8	REL	28	3F	AGC Gain at Constant Mode				BB (6-1)	108 (6-1)
	9	CRM	0	1	Carrier muting on/off				BB (9)	107 (1)
	10	ACO	1	1	Audio Clock out on/off				83 (5)	10C (5)
	11	FP	1B	7F	FM Prescale for non-M system				0E (7-0)	16C (6-0)
	12	FPM	32	7F	FM Prescale for M system				0E (7-0)	16D (6-0)
	13	FH	36	7F	FM Prescale for HDEV				0E (7-0)	16E (6-0)
	14	FHM	65	7F	FM Prescale for HDEV and M				0E (7-0)	16F (6-0)
	15	WGP	2A	7F	W/G Prescale				0E (7-0)	170 (6-0)
	16	NIP	6D	7F	NICAM Prescale				10 (7-0)	138 (6-0)
	17	ERR	50	FF	Auto FM switch Threshold				21 (10-3)	166 (7-0)
18	VOL	6D	FF	Loud Speaker gain 7000h to 7ff0h	0000 (15-4)	1A7 (7-0)				

Adjustment Item Table

Device Name	Functionality		Note	Data Range	Function	Note for Different Data	Register No. (bit)	Slava Address	RAM Address (bit)
	No	Name							
TXT	0	TXH	1	3	Teletext Horizontal Position			(58H)	18D (1-0)
	1	TXV	0	3	Teletext Vertical Position				18D (6-4)
OPM	0	OSH	0A	3F	OSD H Position	Option-Misc.			AC (7-2)
	1	COM	0	03	Comb Selection				A5 (7-6)
	2	APC	1	1	APC Switch				A4 (5)
	3	TSY	0	03	TV Sys at Auto TV Sys				A4 (4-3)
	4	MUT	0	1	No Signal Mute				A4 (0)
	5	AFM	0	1	Auto FM switch				A4 (1)
	6	RFB	0	3	C-BPF Control				A5 (5-4)
	7	TVO	0	7	Tilt to V-Angle offset				A5 (2-0)
	8	DBL	0	1	Disable Blueback Function				A4 (2)
OPB	0	OP1	FF	FF	Optional Bits 1 (see below)	Option-Bits.			45
	1	OP2	1	FF	Optional Bits 2 (see below)				46
	2	OP3	0	FF	Optional Bits 3 (see below)				47

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-XG29M30 (Malaysia)	1	1	1	1	1	1	1	1
KV-XG29M50 (GE)	1	1	1	1	1	1	1	1
KV-XG29M50 (Malaysia)	1	1	1	1	1	1	1	1
KV-XG29M50 (Thailand)	1	1	1	1	1	1	1	1
KV-XG29M60 (Thailand)	1	1	1	1	1	1	1	1
KV-XG29M80 (ME)	1	1	1	1	1	1	1	1
KV-XG29M81 (ME)	1	1	1	1	1	1	1	1
KV-XG29M90 (Hong Kong)	1	1	1	1	1	1	1	1

No. OPB1 OP2

Item	TOP	NICAM	HDEV	Thai Bil	Dis Fav.	DVD Input	AV Input	
KV-XG29M30 (Malaysia)	0	1	1	0	0	0	0	1
KV-XG29M50 (GE)	0	1	1	0	0	0	0	1
KV-XG29M50 (Malaysia)	0	1	1	0	0	0	0	1
KV-XG29M50 (Thailand)	0	1	1	0	0	0	0	1
KV-XG29M60 (Thailand)	0	1	1	0	0	0	0	1
KV-XG29M80 (ME)	0	1	1	0	0	0	0	1
KV-XG29M81 (ME)	0	1	1	0	0	0	0	1
KV-XG29M90 (Hong Kong)	0	1	1	0	0	0	0	1

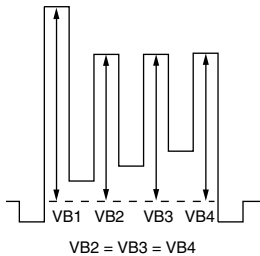
No. OPB2 OP3

Item	PIC Rotate	2199 Curve	Auto PIC	Auto TV sys	US ST	AV Mono	11 KEY	Color SW
KV-XG29M30 (Malaysia)	0	0	1	1	0	0	0	0
KV-XG29M50 (GE)	0	0	0	1	0	0	0	0
KV-XG29M50 (Malaysia)	0	0	0	1	0	0	0	0
KV-XG29M50 (Thailand)	0	0	0	1	0	0	0	0
KV-XG29M60 (Thailand)	0	0	1	1	0	0	0	0
KV-XG29M80 (ME)	0	0	0	1	0	0	0	0
KV-XG29M81 (ME)	0	0	0	1	0	0	0	0
KV-XG29M90 (Hong Kong)	0	0	1	1	0	0	0	0

4-3. PICTURE QUALITY ADJUSTMENTS

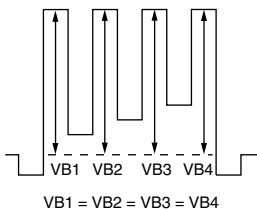
SUB COLOR ADJUSTMENT

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

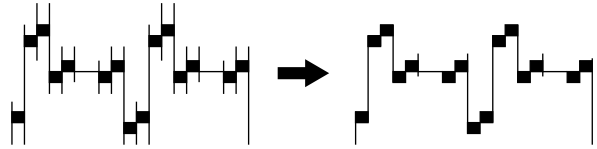
1. Select Video 1.
2. Input a NTSC color-bar, video into Video 1.
3. Set the following condition:
PICTURE 100%, BRIGHTNESS 50%, COLOR 50%
4. Connect an oscilloscope to pin ① (B OUT) of CN305, A board.
5. Select SAJ 1 'SHU' with [1] and [4] of the commander by setting to Service Mode and adjust to VB1=VB2=VB3=VB4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

CXP86449-625S (KV-XG29M60/XG29M50(Thailand))

CXP86449-626S (KV-XG29M80(ME)/XG29M81(ME))

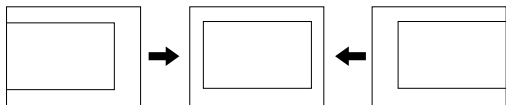
CXP86449-627S (KV-XG29M30(Australia)/XG29M50(GE)/
KV-XG29M50(Malaysia)/XG29M90)

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.)

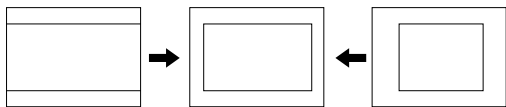
4-5. PICTURE DISTORTION ADJUSTMENT (1)

Item Number 00 – 0B

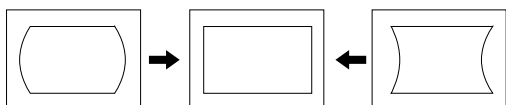
GEO 0 HPS (H POSITION)



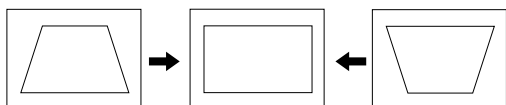
GEO 1 HSZ (H SIZE)



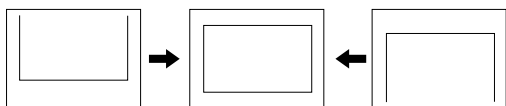
GEO 2 PAP (PIN AMP)



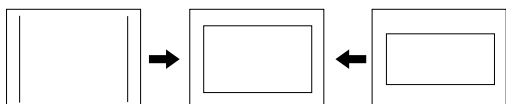
GEO 3 TLT (TRAPEZIUM)



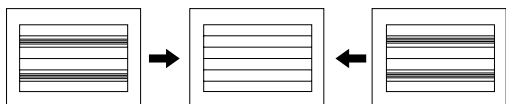
GEO 4 VPS (V POSITION)



GEO 5 VSZ (V SIZE)



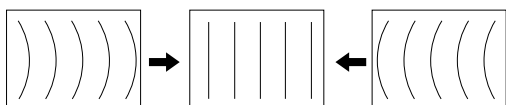
GEO 6 SCO (VERTICAL S-Correction)



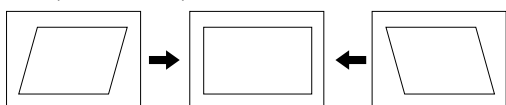
GEO 7 VLN (V LINEARITY)



GEO 8 BOW (AFC.BOW)

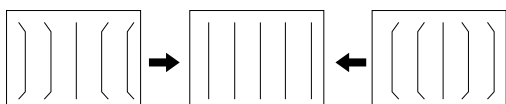


GEO 9 AGL (AFC.ANGLE)



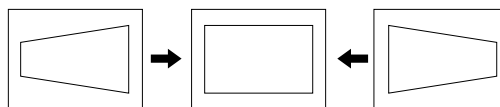
GEO 0A UCP (UPPER CORNER PIN)

GEO 0B LCP (LOWER CORNER PIN)



PICTURE DISTORTION ADJUSTMENT (2)

H-TRAPEZOID (Rotate RV1801)



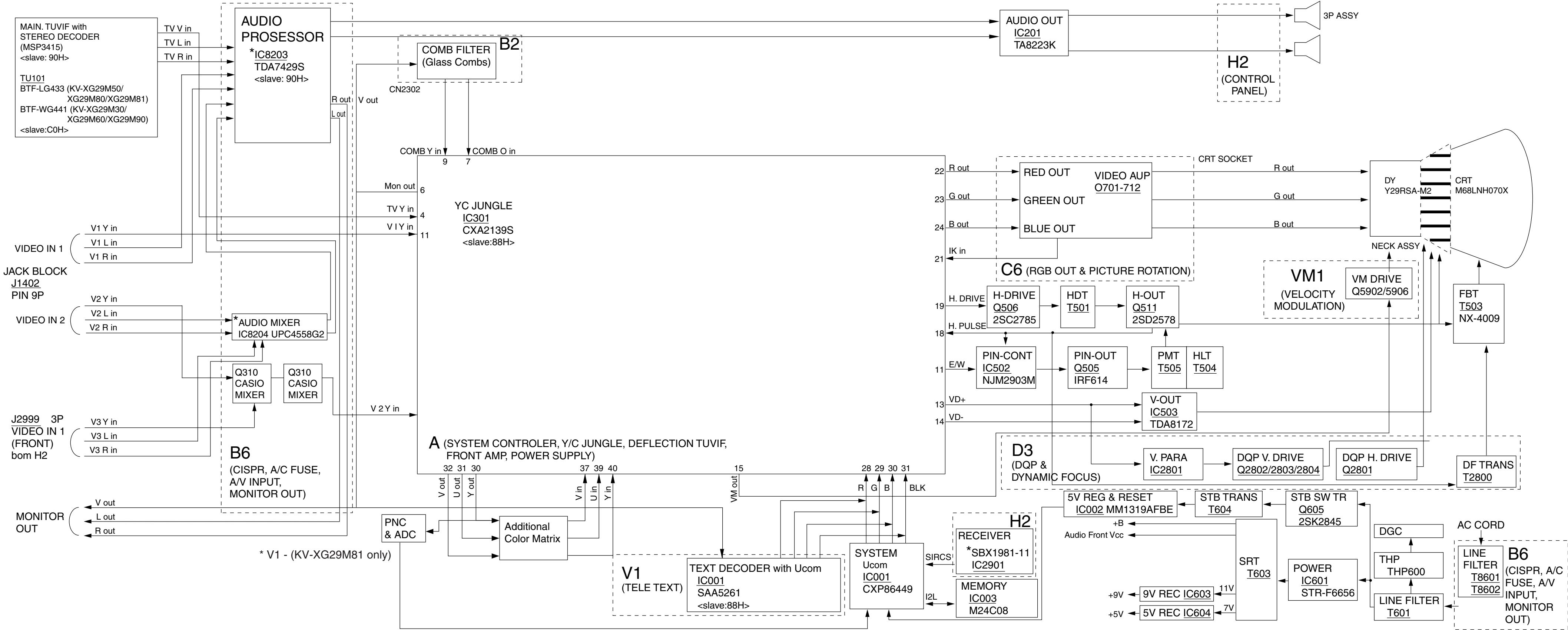
SECTION 5
DIAGRAM

KV-XG29M30/XG29M50/XG29M60/
KV-XG29M80/XG29M81/XG29M90
RM-952

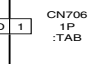
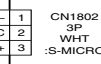
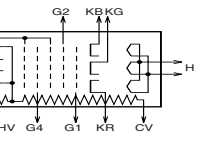
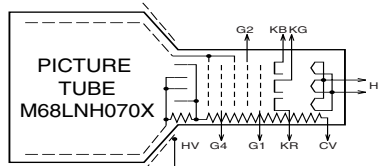
KV-XG29M30/XG29M50/XG29M60/
KV-XG29M80/XG29M81/XG29M90
RM-952

KV-XG29M30/XG29M50/XG29M60/
KV-XG29M80/XG29M81/XG29M90
RM-952

5-1. BLOCK DIAGRAM



5-2. FRAME SCHEMATIC DIAGRAM



C6
(RGB OUT &
PICTURE ROTATION)

D3
(DQP, DYNAMIC FOCUS)

***V1**
(TELE TEXT)

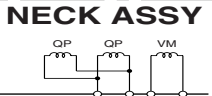
A
(SYSTEM CONTROLLER, Y/C JUNGLE, DEFLECTION,
TUVIF, FRONT AMP, POWER SUPPLY)

H2
(CONTROL PANEL)

B2
(COMB FILTER)

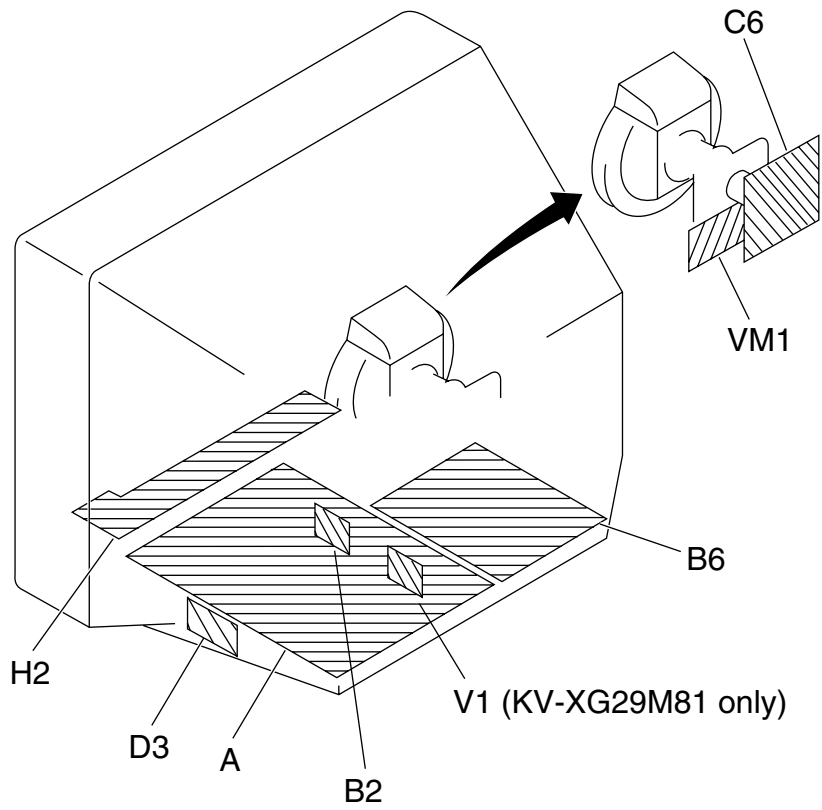
B6
(CISPR, A/C FUSE,
AV INPUT, MONITOR OUT)

VM1
(VELOCITY
MODULATION)



* V1 - (KV-XG29M81 only)

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.
k = 1000 , M = 1000k
 - 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 M digital m ultimeter.**
 - **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	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ✕	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

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

A BOARD

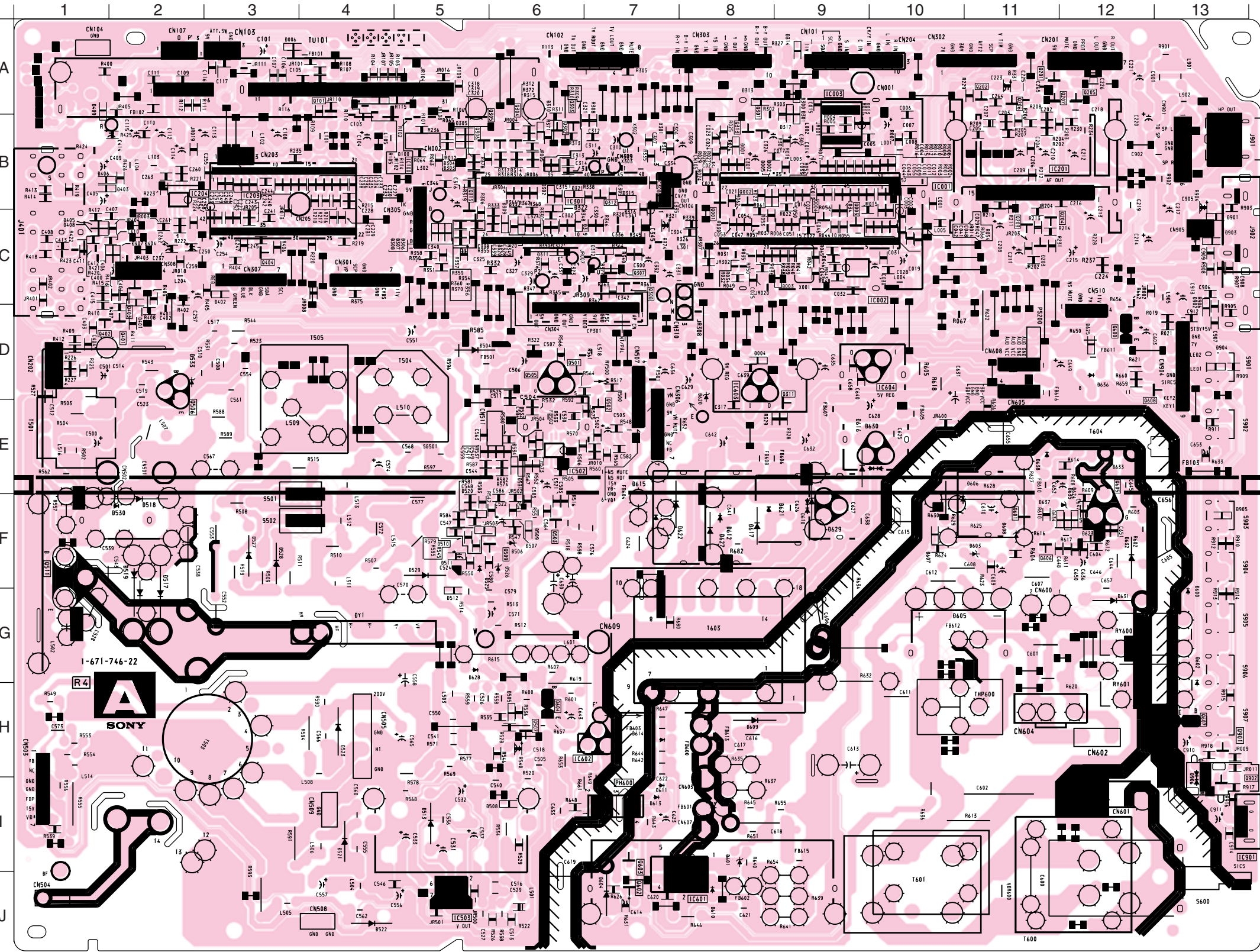
IC		DIODE	
IC001	B-10	D001	B-8
IC002	C-10	D002	B-8
IC003	A-9	D003	C-9
IC100	B-5		
IC201	B-11	D004	D-8
IC203	B-3	D005	B-8
IC204	B-2	D006	A-3
IC301	B-6	D100	B-5
IC502	E-6	D203	C-11
IC503	J-5	D300	A-9
IC601	I-8	D301	B-9
IC602	H-7	D302	B-6
IC603	D-8	D303	B-5
IC604	D-10	D304	B-5
IC901	I-13	D305	B-5
PH600	H-7	D306	C-5
		D307	C-5
		D308	B-5
		D309	B-6
		D310	A-6
		D311	C-6
		D312	C-6
		D313	A-8
		D315	B-7
		D316	C-7
		D317	B-9
		D314	A-9
		D319	C-7
		D320	C-6
		D322	B-6
		D401	D-2
		D402	C-3
		D403	B-2
		D404	C-2
		D405	C-1
		D406	B-1
		D407	C-2
		D408	C-1
		D409	A-1
		D504	D-5
		D505	H-6
		D506	F-6
		D507	F-6
		D508	I-5
		D509	F-6
		D510	F-5
		D511	F-5
		D512	G-5
		D513	I-5
		D517	F-2
		D518	F-2
		D519	F-2
		D520	E-5
		D521	I-4
		D522	J-4
		D523	H-4
		D525	F-5
		D526	F-6
		D527	F-3
		D528	F-3
		D529	F-5
		D530	F-2
		D531	E-6
		D532	E-6

TRANSISTOR	
Q001	B-8
Q002	B-8
Q003	C-9
Q004	C-9
Q101	A-4
Q201	A-11
Q202	A-11
Q203	C-11
Q204	C-12
Q205	A-12
Q206	A-11
Q207	A-12
Q301	B-8
Q302	B-6
Q303	A-6
Q304	B-6
Q305	B-5
Q306	B-5
Q307	C-7
Q308	C-7
Q311	D-9
Q312	B-7
Q313	B-8
Q315	B-5
Q401	D-2
Q402	D-1
Q403	D-2
Q404	C-3
Q501	D-6
Q502	E-7
Q503	F-6
Q505	D-6
Q506	D-2
Q507	H-6
Q509	F-6
Q511	F-1
Q600	D-12
Q601	F-11
Q602	J-7
Q603	I-7
Q604	H-6
Q605	E-12
Q606	F-11
Q607	H-13
Q608	D-12
Q901	H-13
Q902	H-13

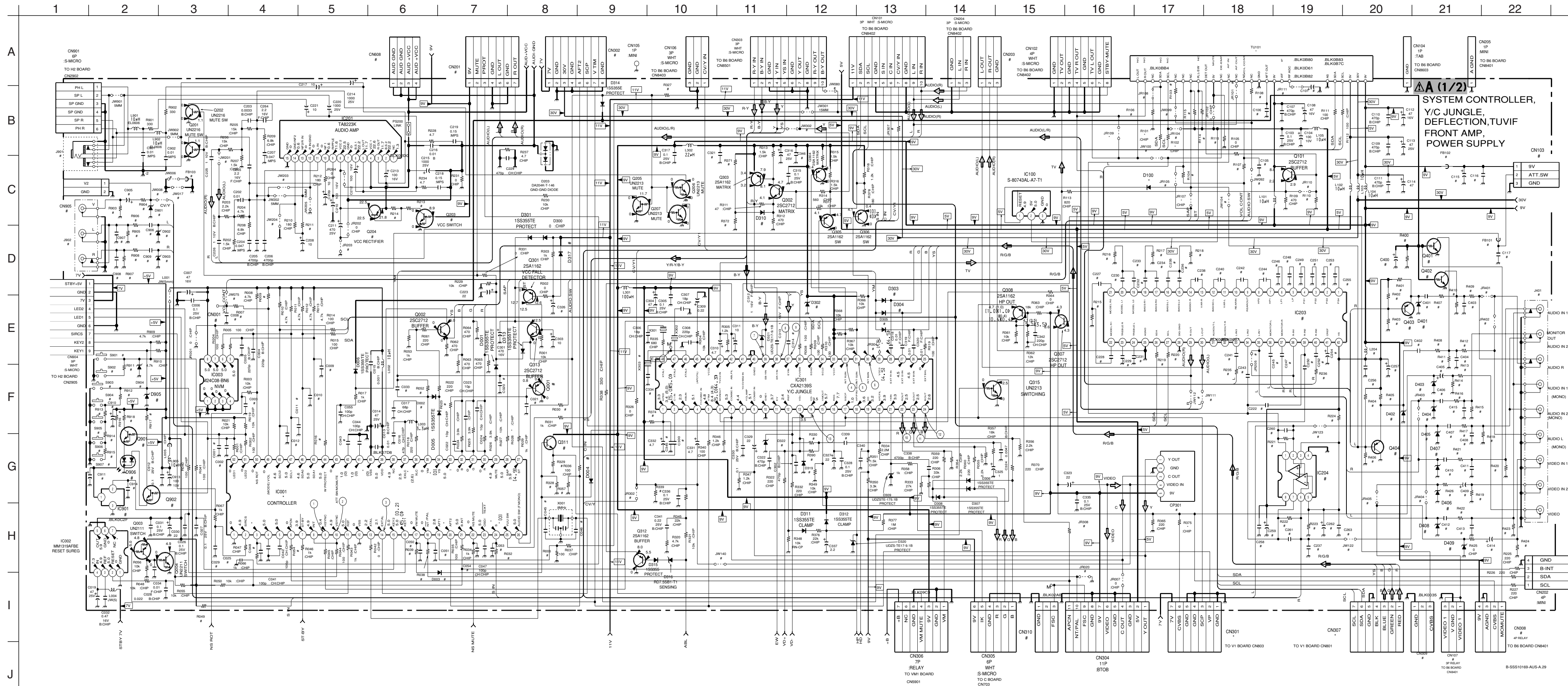
A [SYSTEM CONTROLLER, Y/C JUNGLE,
DEFLECTION, TUVIF, FRONT AMP, POWER SUPPLY]

PRINTED WIRING BOARD

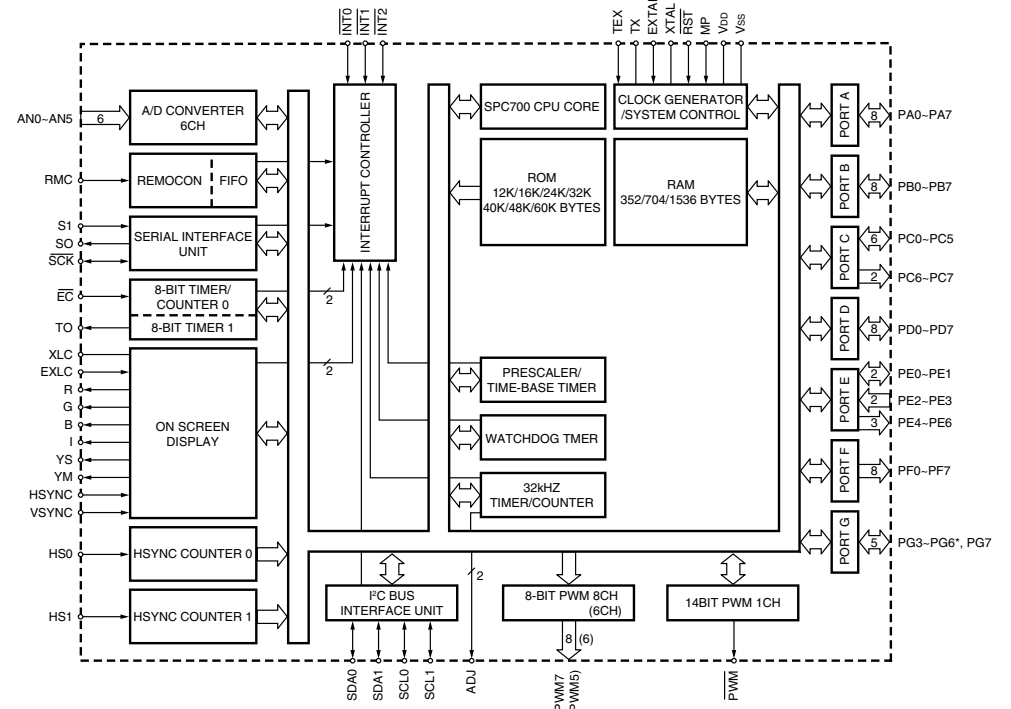
– A Board –



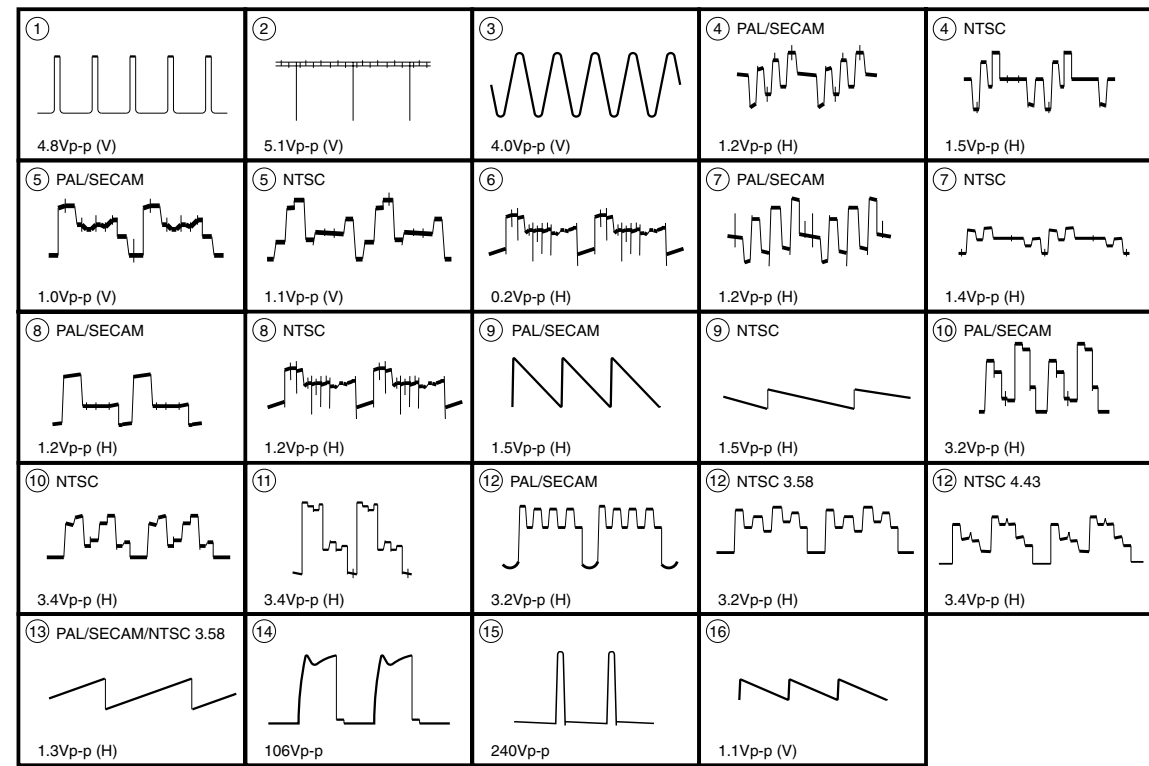
(1) Schematic Diagram of A(1/2) Board



A BOARD IC001 CXP86449-625S (KV-XG29M60/XG29M50 (Thailand))
A BOARD IC001 CXP86449-626S (KV-XG29M80/XG29M81)
A BOARD IC001 CXP86449-627S (KV-XG29M50 (GE)/XG29M50 (Malaysia)/XG29M30/XG29M90)

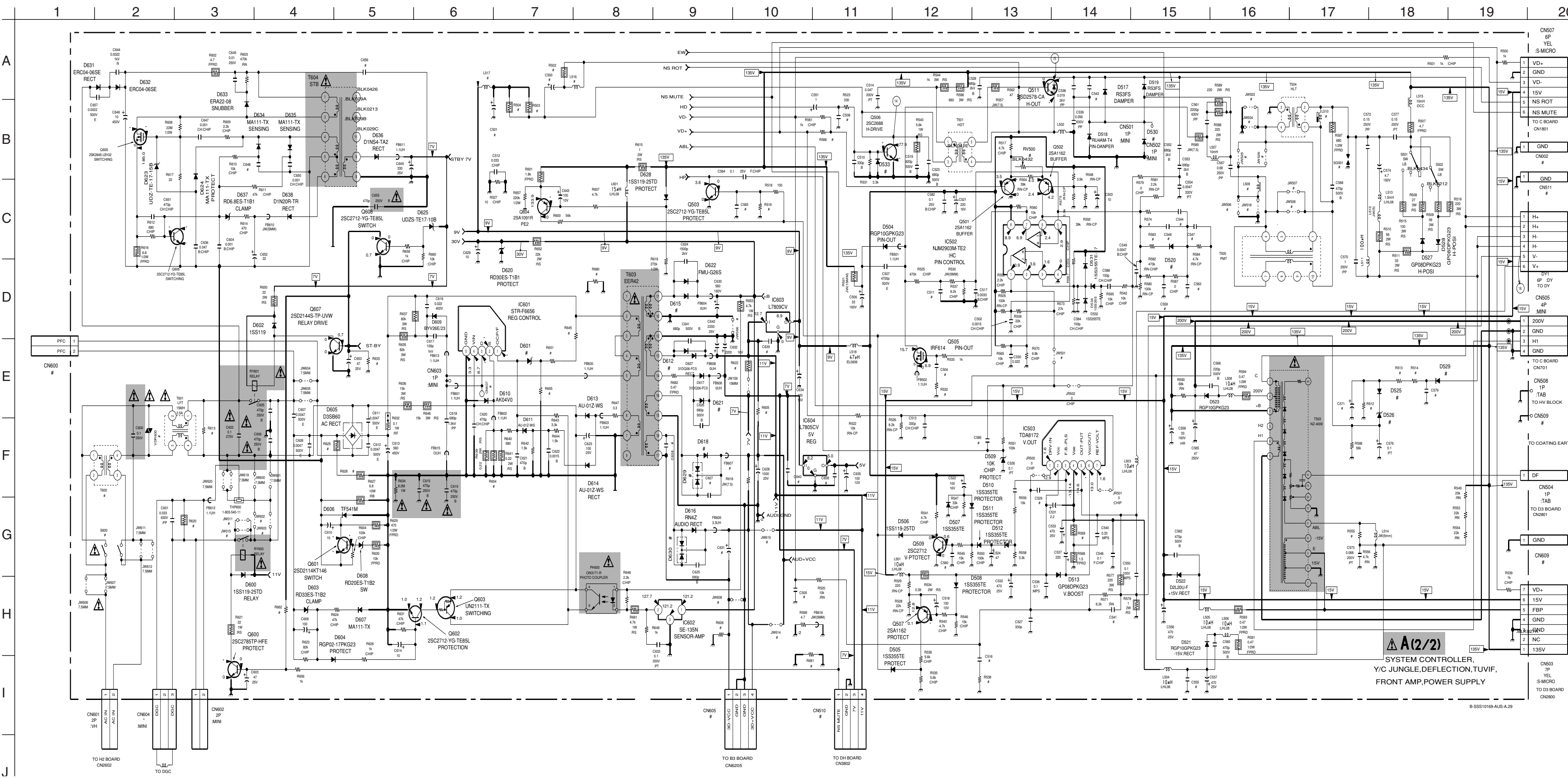


A BOARD WAVEFORMS

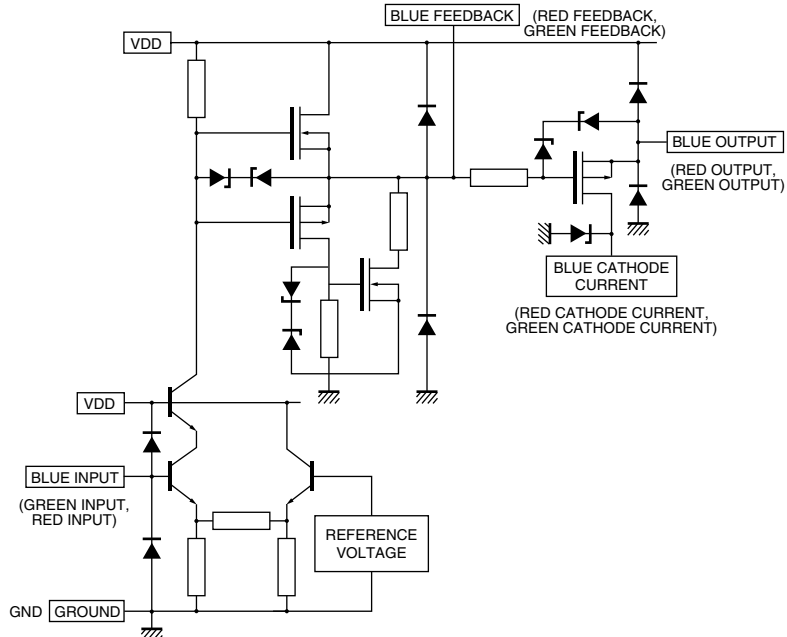


NOTE:
The circuit indicated at left contains high voltage of over 600 Vp-p. Please pay attention when inspecting or repairing it to prevent an electric shock.

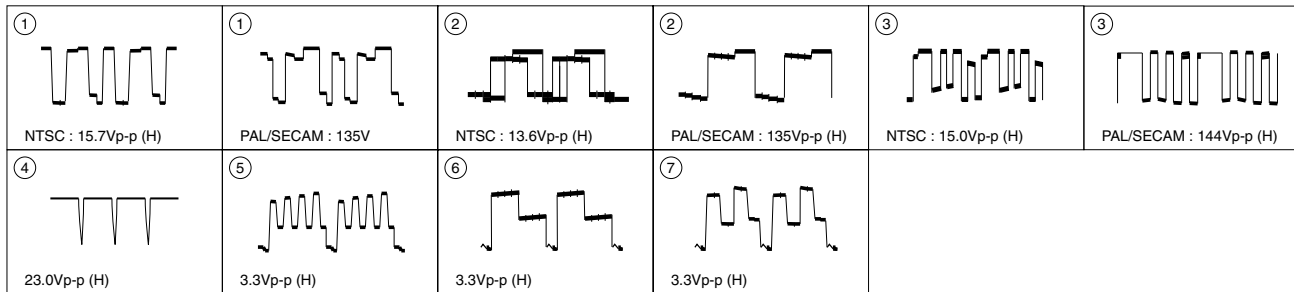
(2) Schematic Diagram of A(2/2) Board



C6 BOARD IC701 STV5112



C6 BOARD WAVEFORMS

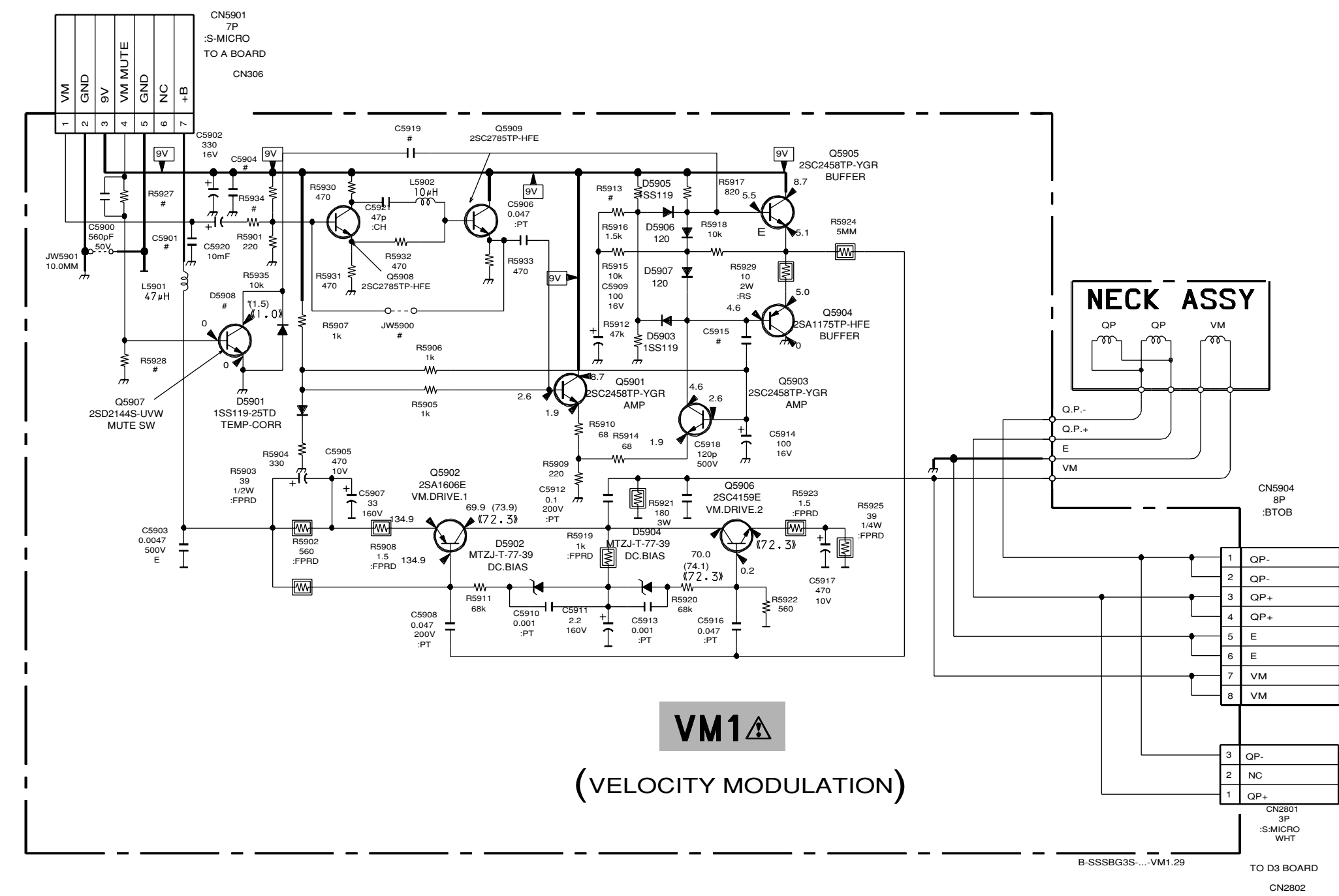
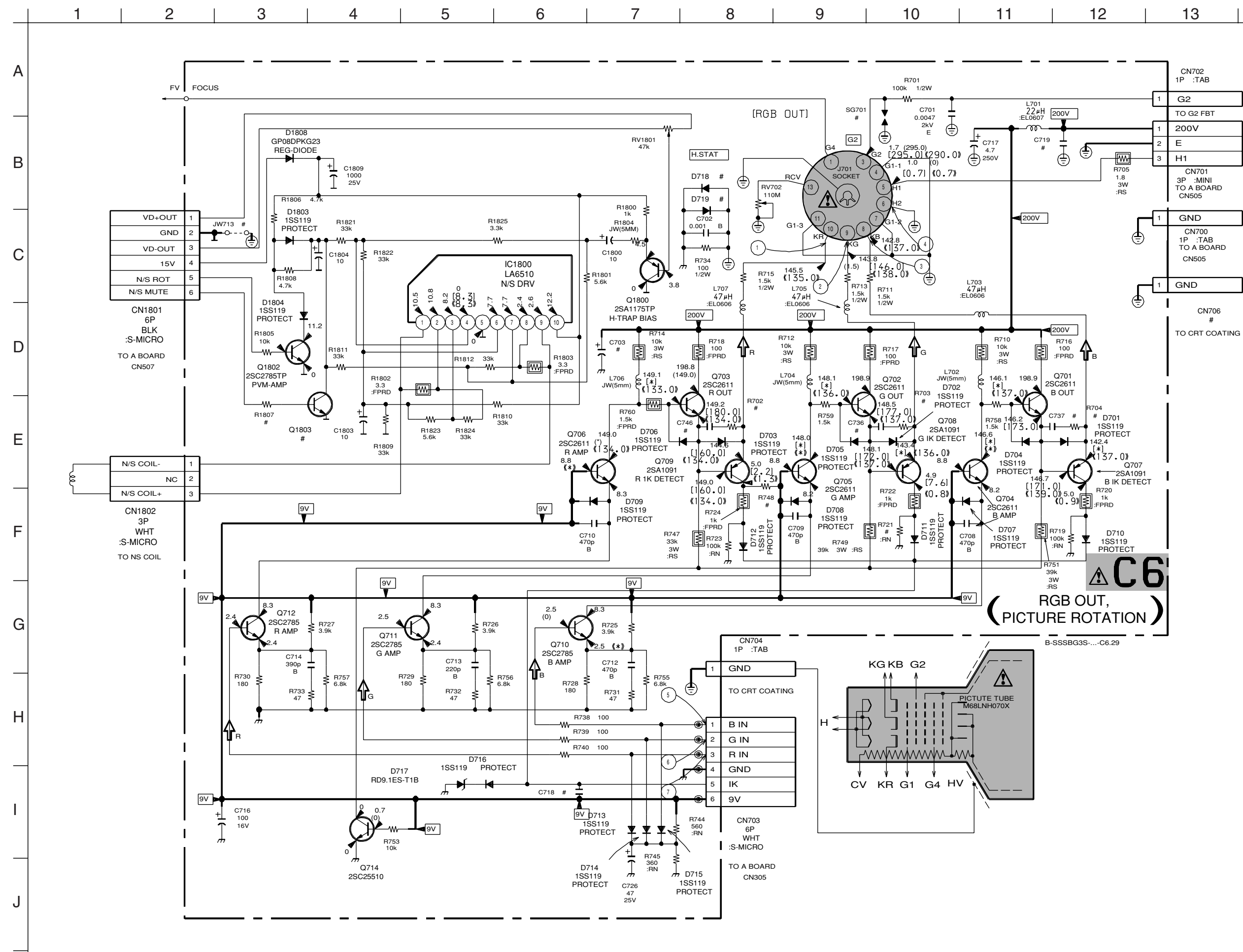


A BOARD * MARK LIST

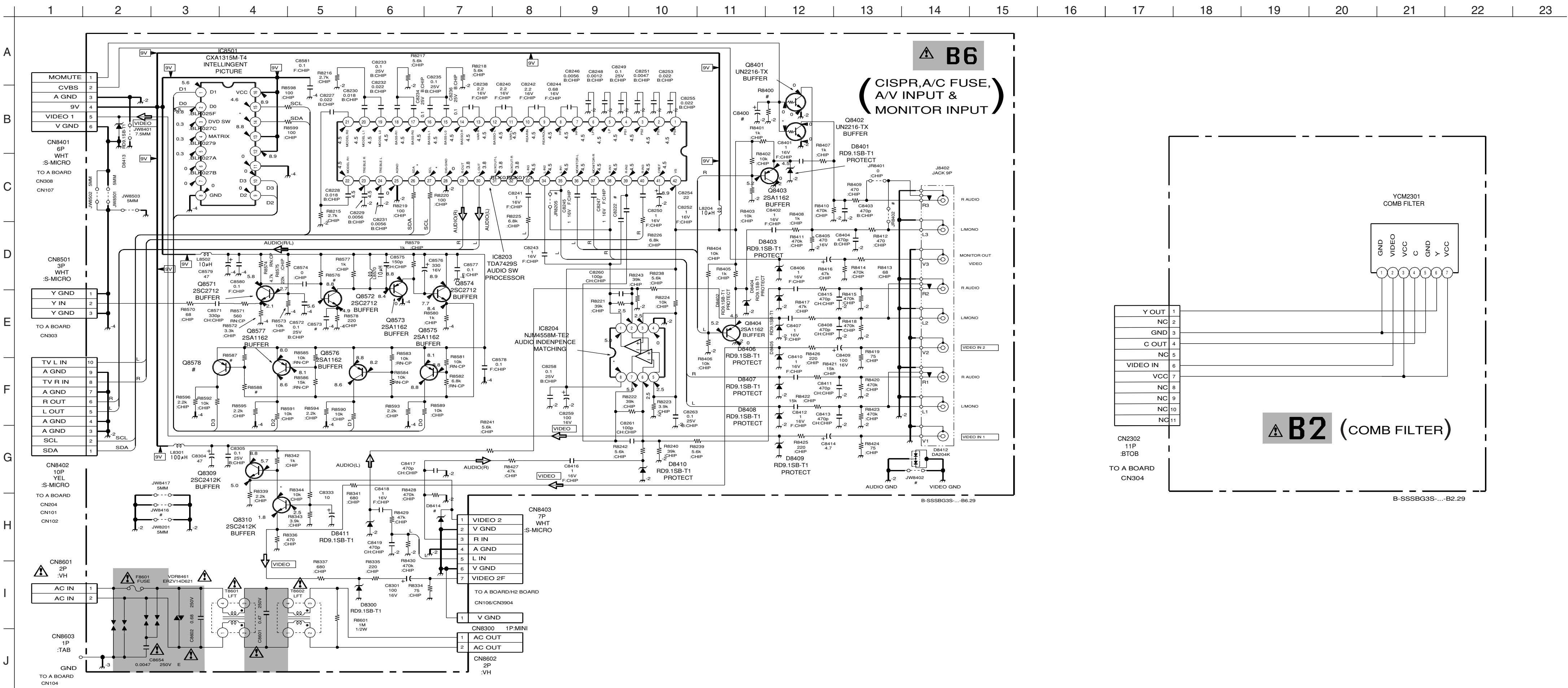
	KV-XG29M50 (GE)	XG-29M90 (HONGKONG)	KV-XG29M81 (ME)	KV-XG29M80 (ME)	KV-XG29M50 (MALAYSIA)	KV-XG29M60 (THAILAND)	KV-XG29M50 (THAILAND)	KV-XG29M30 (AUSTRALIA)
CN301	#	#	7P	#	#	#	#	#
CN307	#	#	7P	#	#	#	#	#
CN604	3P	2P	3P	3P	2P	2P	2P	2P
D100	#	MA111-TX	#	#	#	MA111-TX	#	MA111-TX
IC001	CXP86449-627S	CXP86449-627S	CXP86449-626S	CXP86449-626S	CXP86449-627S	CXP86449-625S	CXP86449-625S	CXP86449-627S
IC100	#	S-80743AL-A7-T1	#	#	#	S-80743AL-A7-T1	#	S-80743AL-A7-T1
JR107	#	0 : CHIP	#	#	#	0 : CHIP	#	0 : CHIP
JR109	#	#	#	0 : CHIP	#	#	0	#
R028	#	10K	#	#	#	10K	#	10K : CHIP
R101	#	100 : CHIP	#	#	#	100 : CHIP	#	100 : CHIP
R102	#	100 : CHIP	#	#	#	100 : CHIP	#	100 : CHIP
R375	#	#	100 : CHIP	#	#	#	#	#
TU101	BTF-LG433	BTF-WG441	BTF-LG433	BTF-LG433	BTF-LG433	BTF-WG441	BTF-LG433	BTF-WG441

Note: The parts indicated as “#” in this circuit diagram are not listed here, as they are not used in this models.

(3) Schematic Diagrams of C6 and VM1 Boards



(4) Schematic Diagrams of B6 and B2 Boards



**KV-XG29M30/XG29M50/XG29M60/
KV-XG29M80/XG29M81/XG29M90**
RM-952

B6 [CISPR, A/C FUSE, AV INPUT,
MONITOR INPUT]

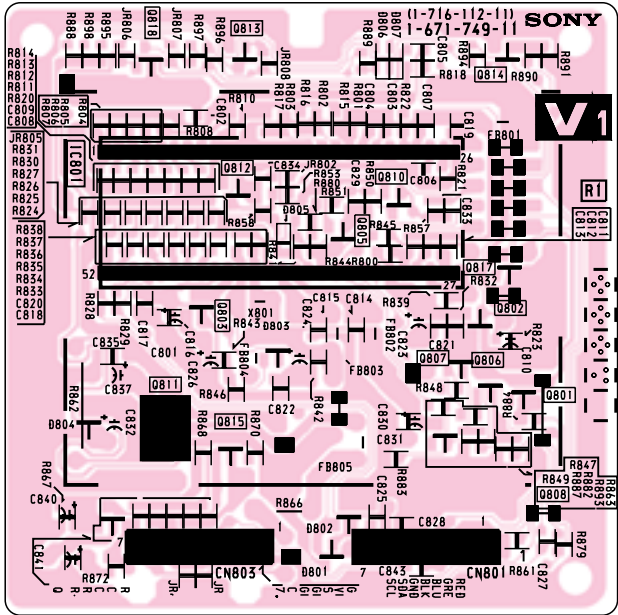
[illegible]

V1 [TELE TEXT]

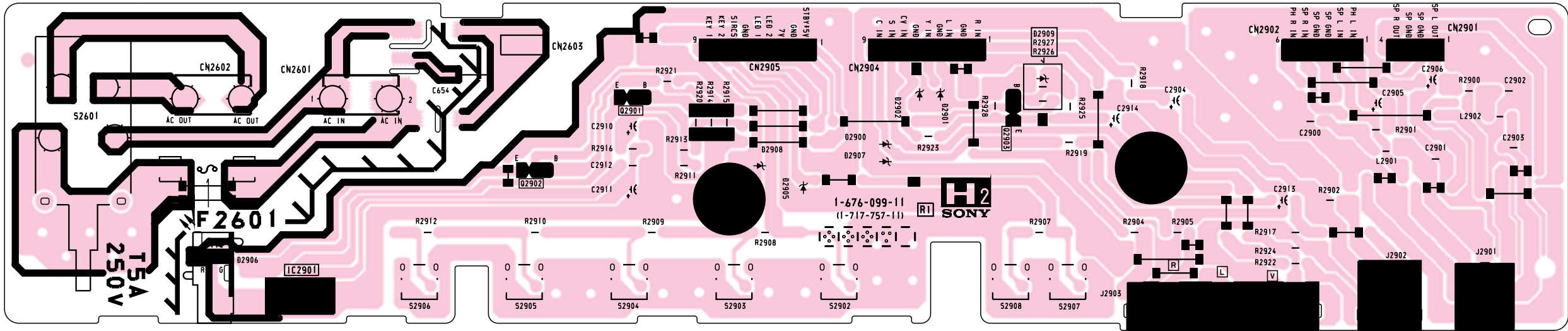
H2 [CONTROL PANEL]

PRINTED WIRING BOARDS

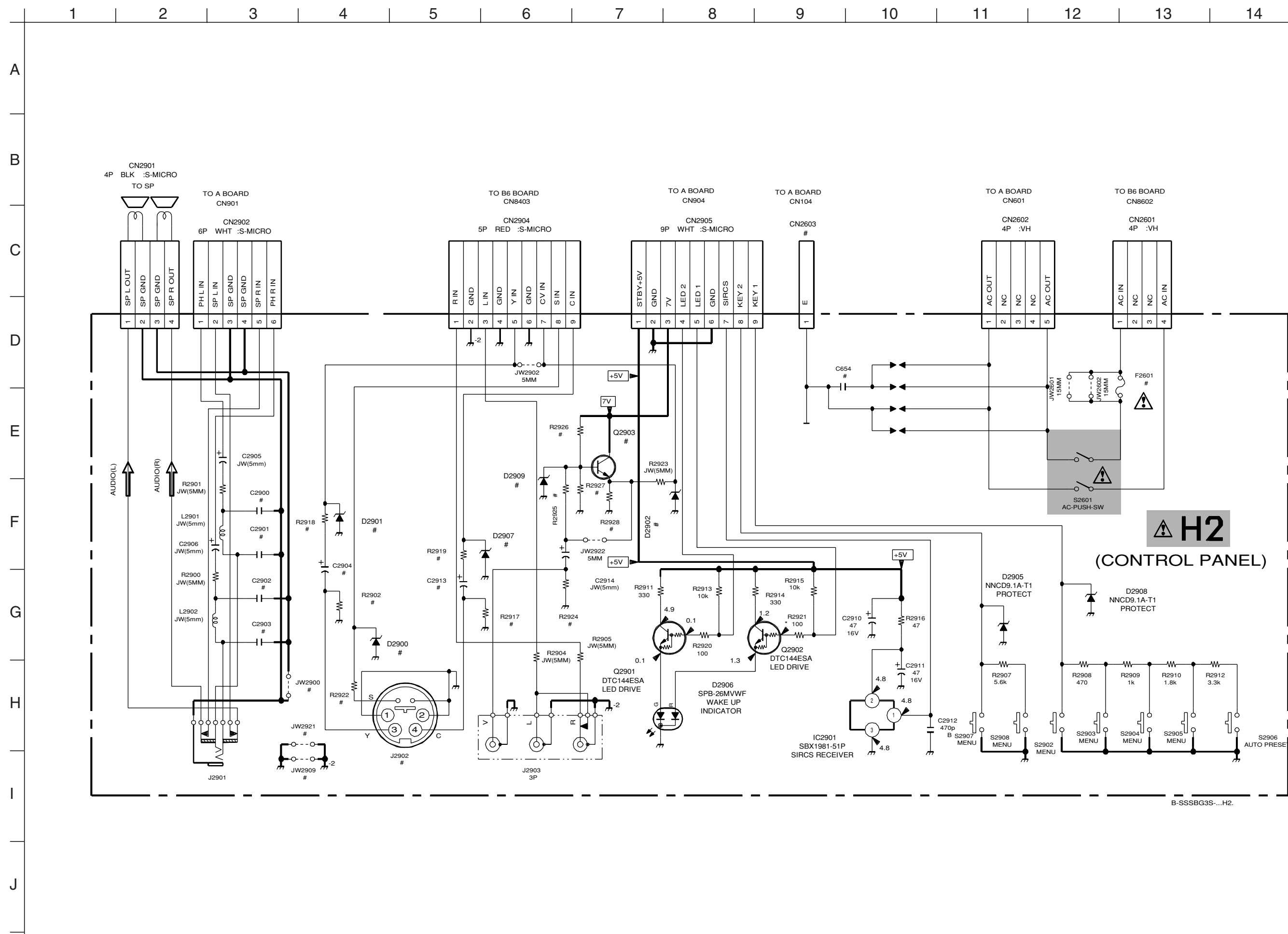
– V1 Board – (KV-XG29M81 only)



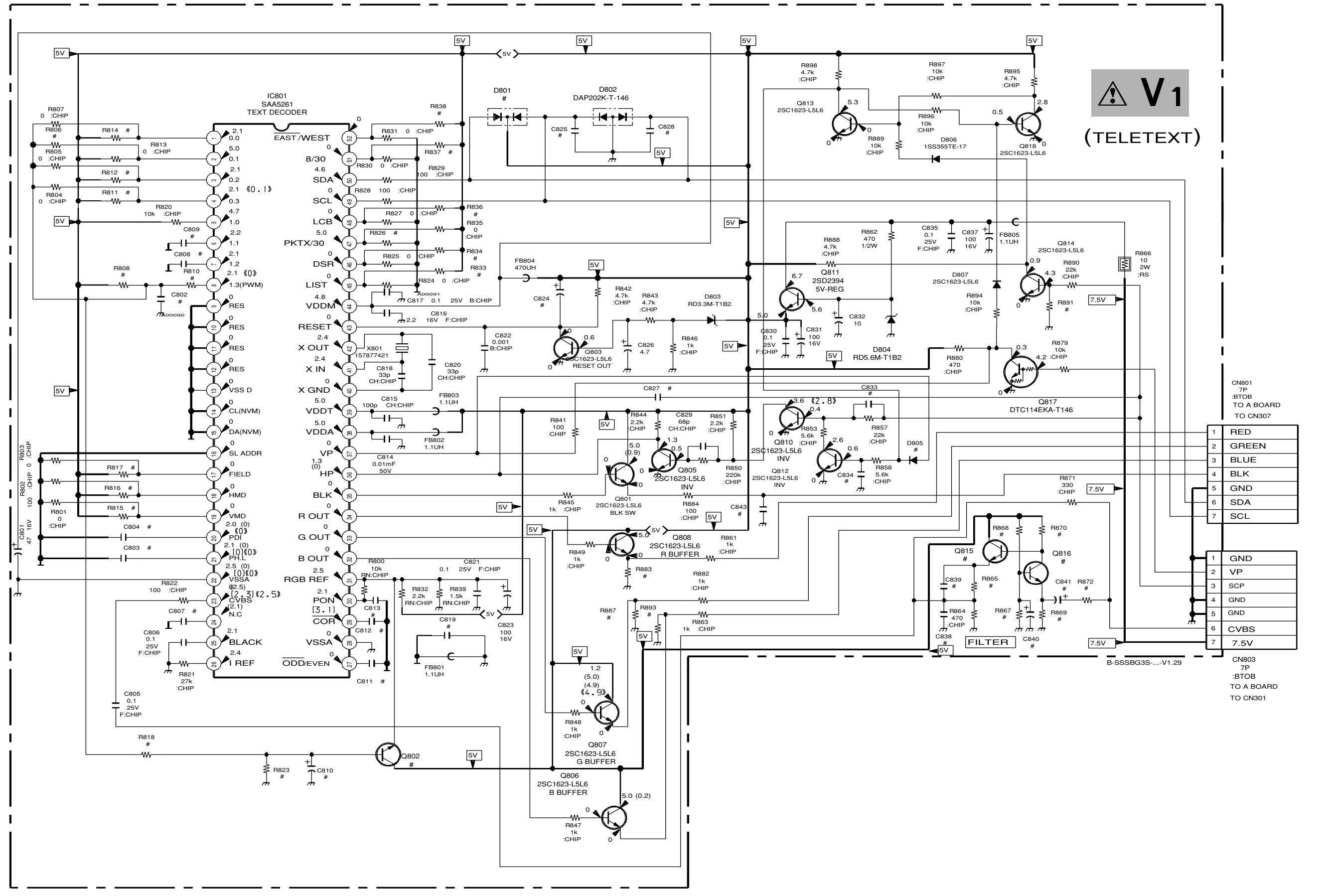
– H2 Board –



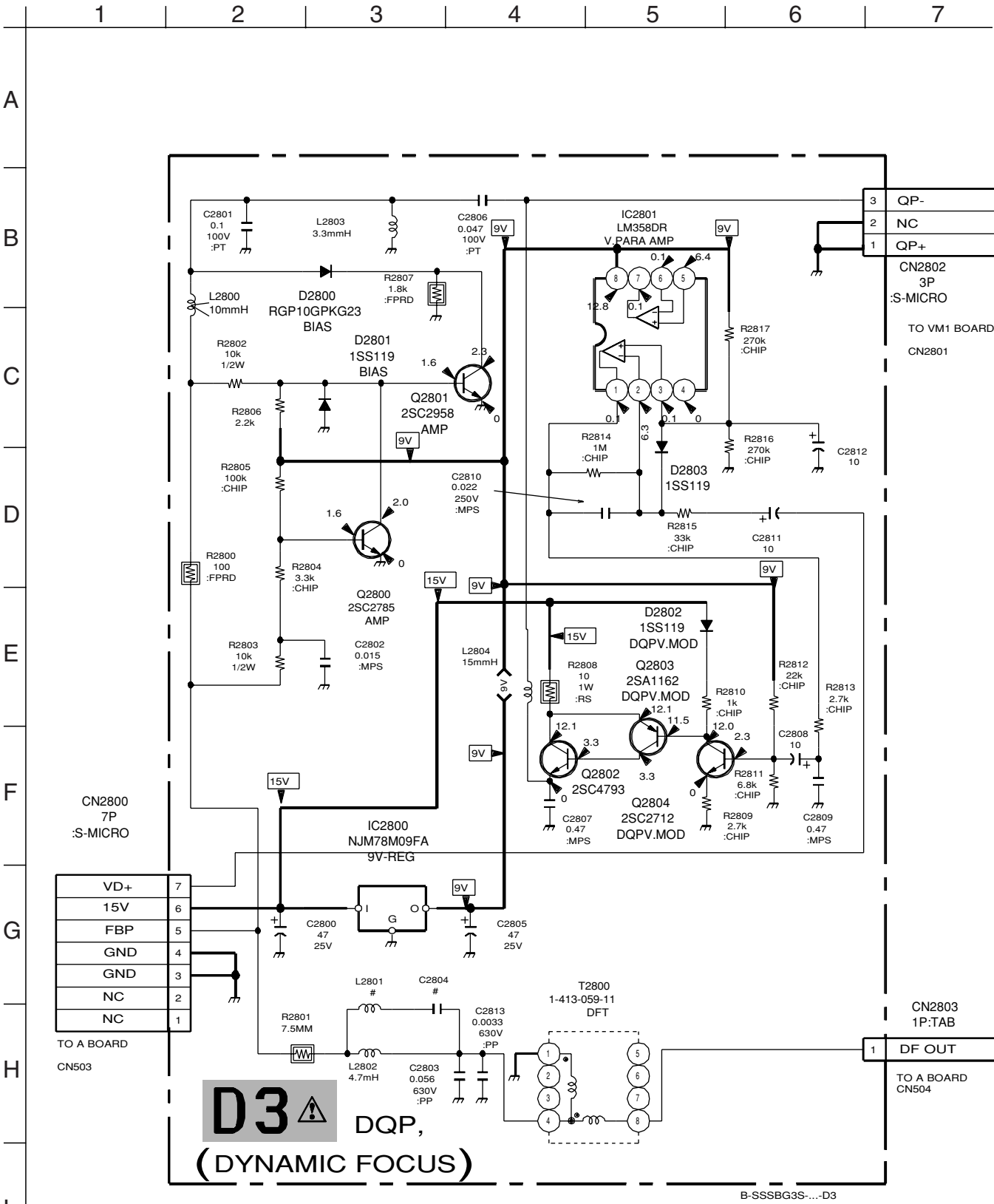
(5) Schematic Diagrams of H2 and V1 Boards



(KV-XG29M81 only)



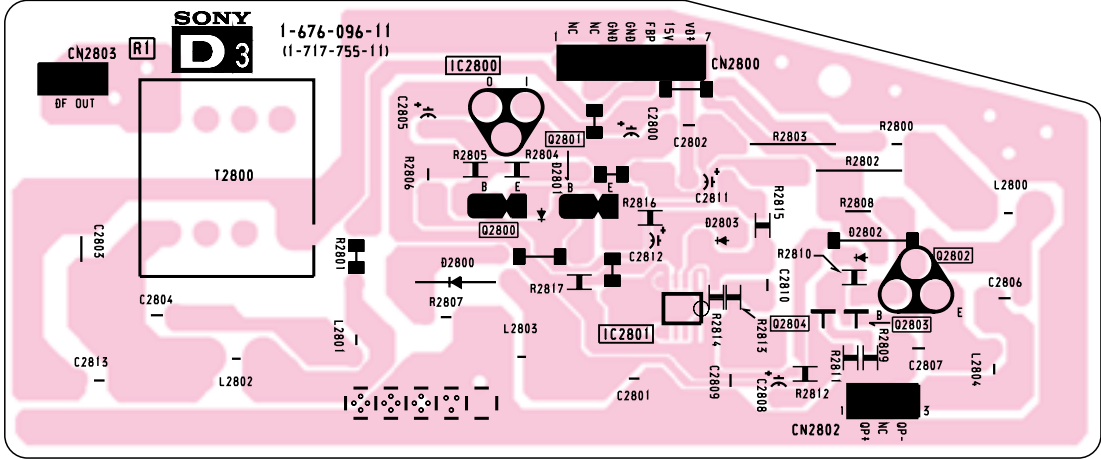
(6) Schematic Diagram of D3 Board



KV-XG29M30/XG29M50/XG29M60/
KV-XG29M80/XG29M81/XG29M90
RM-952

D3 [DQP, DYNAMIC FOCUS]

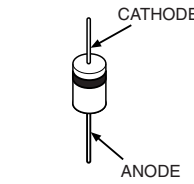
- D3 Board -



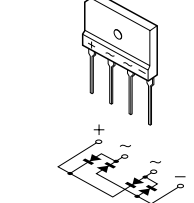
5-5. SEMICONDUCTORS

DIODE

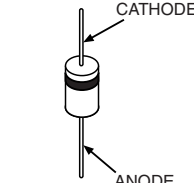
AK04V0
AU-01Z-V1
D2L20U
EL1Z
ERA22-08
GP08D
NNCD9.1A-T1
RD33EB3T
RGP02-17EL-6433



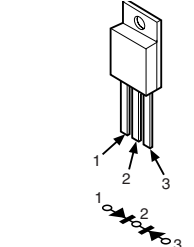
D4SB60L
D3SB60



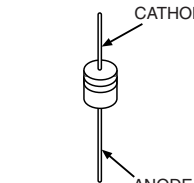
ERC04-06SE
ERC06-15S
RN4Z
RS3FS
RU-1P
31DQ06-FC5



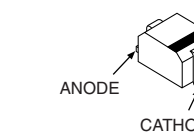
FMU-G26S



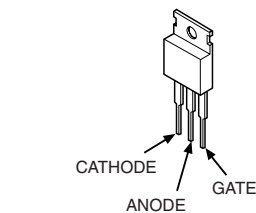
D1NS4
D1N20R
RD20ES-B2
RD30ESB2
RD39ES-B2
RD6.8ES-B1
RD9.1ES-L2
1SS119-25
11EQS04
11ES2-NTA2B



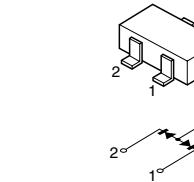
DTZ10B
DTZ-TT11-15B
MA111-(K8)S0
RD7.5SB1-T1
RD9.1S-B
UDZS-TE17-5.1B
UDZS-TE17-9.1B
1SS355TE-17



5P6M

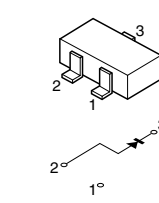


DAP202K

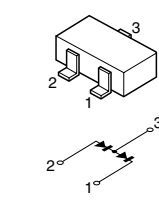


KV-XG29M30/XG29M50/XG29M60/
KV-XG29M80/XG29M81/XG29M90
RM-952

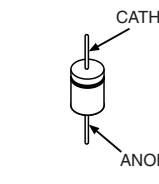
RD3.3M-B2
RD5.6M-B2



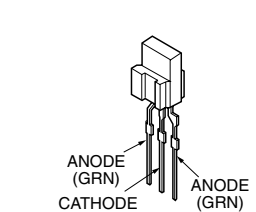
DA204K



RU4AM-T4



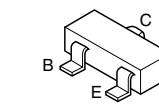
LED
SPB-26MVWF



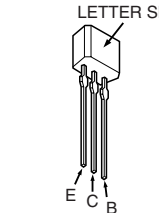
KV-XG29M30/XG29M50/XG29M60/
KV-XG29M80/XG29M81/XG29M90
RM-952

TRANSISTOR

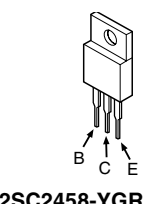
DTC114EK
UN2111
UN2211
UN2213
UN2216
2SA1037AK-T146-R
2SA1162-G
2SC1623-L5L6
2SC2712-YG
2SD2114K



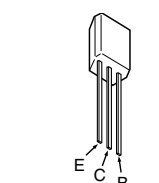
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2SA933AS-QT
2SC2785-HFE



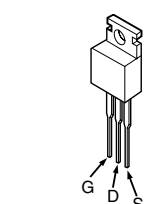
2SA1606-E
2SC4159-E
2SC4793
2SD2394-EF



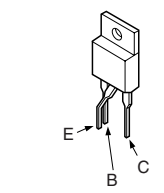
2SC2458-YGR
2SD2144S-UVW



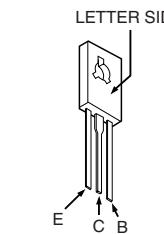
IRF614



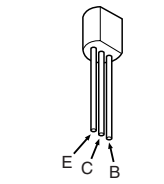
2SK2845-LB102



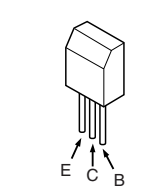
2SC2611
2SC2688-LK



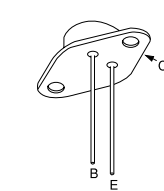
2SC2551-0



2SC2958



2SD2578-CA



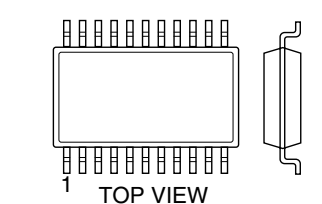
IC

CXA1315M (16PIN)
CXA2139S (48PIN)
CXP86449-625S (64PIN)
CXP86449-626S (64PIN)
CXP86449-627S (64PIN)
SAA5261 (48PIN)
M24C08-BN6 (8PIN)
TDA7429S (15PIN)

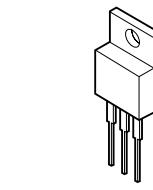


Dual In-line Package
Pin 6~98

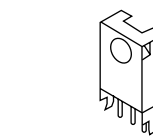
LM358D (8PIN)
MM1319AFBE (7PIN)
NJM2903M (8PIN)
μPC4558G2 (8PIN)



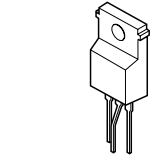
NJM78M09FA
TA7805S



SBX1981-51P

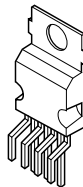


SE-135N

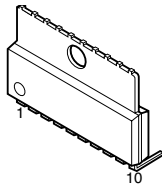


SECTION 6
EXPLODED VIEWS

TDA8172

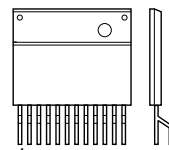


LA6510



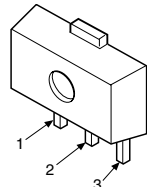
STR-F6656

MARKING SIDE VIEW

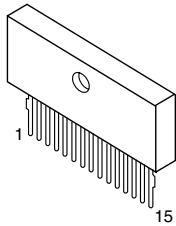


Zig-zag In -line Package
Pin 6~99

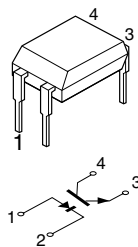
S-80743AL-A7-S



TA8223K



ON3171-R



NOTE:

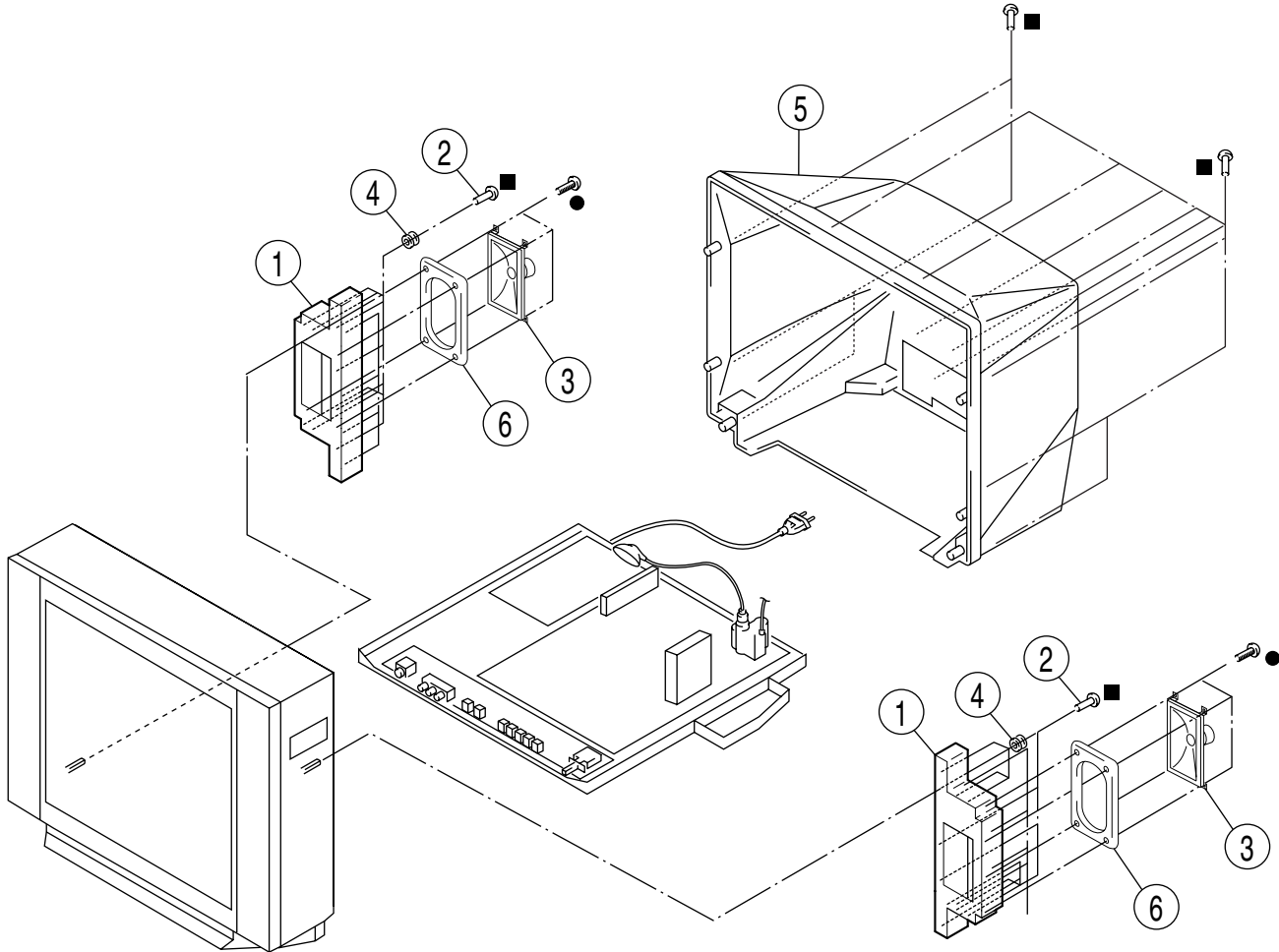
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

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

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

6-1. SPEAKER BRACKET

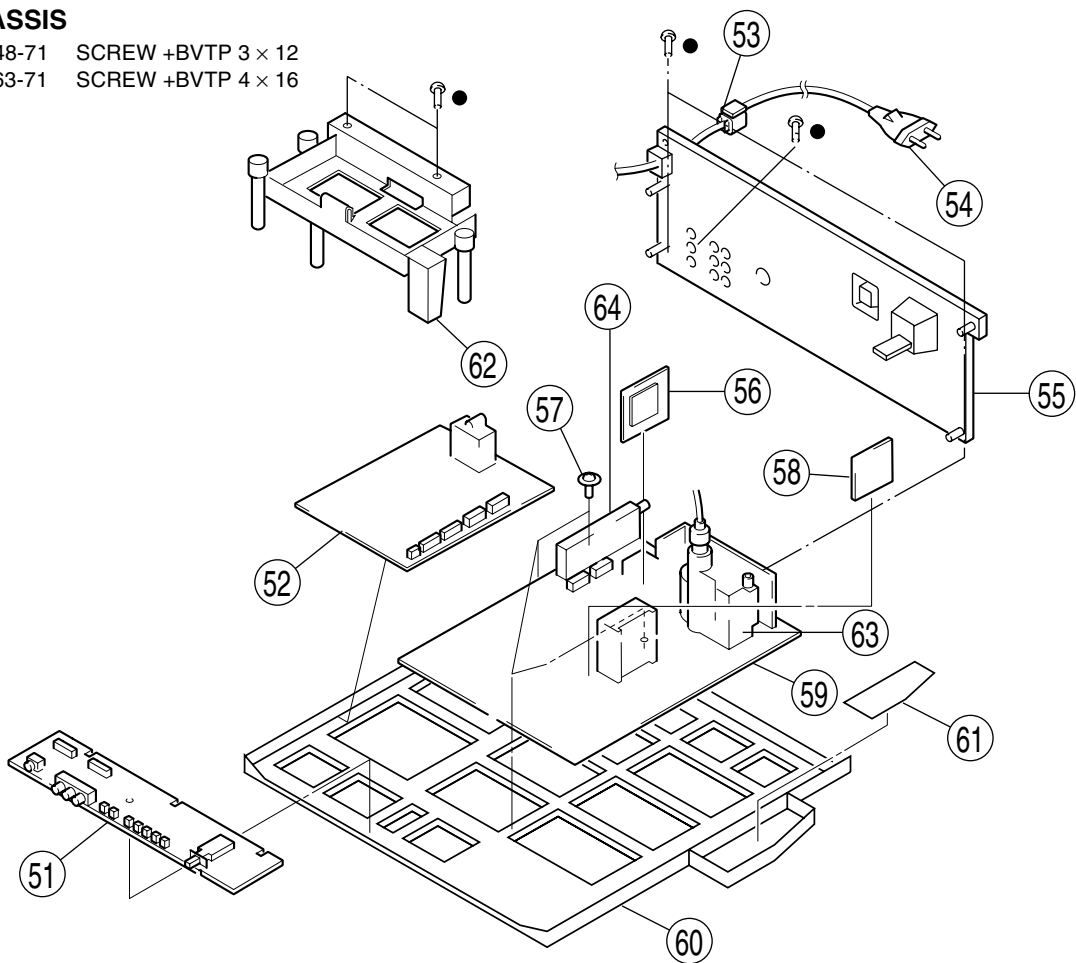
- 7-685-663-71 SCREW +BVTP 4 × 16
- 7-685-650-71 SCREW +BVTP 3 × 16



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	* 4-071-045-01	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	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
- 7-685-663-71 SCREW +BVTP 4 × 16

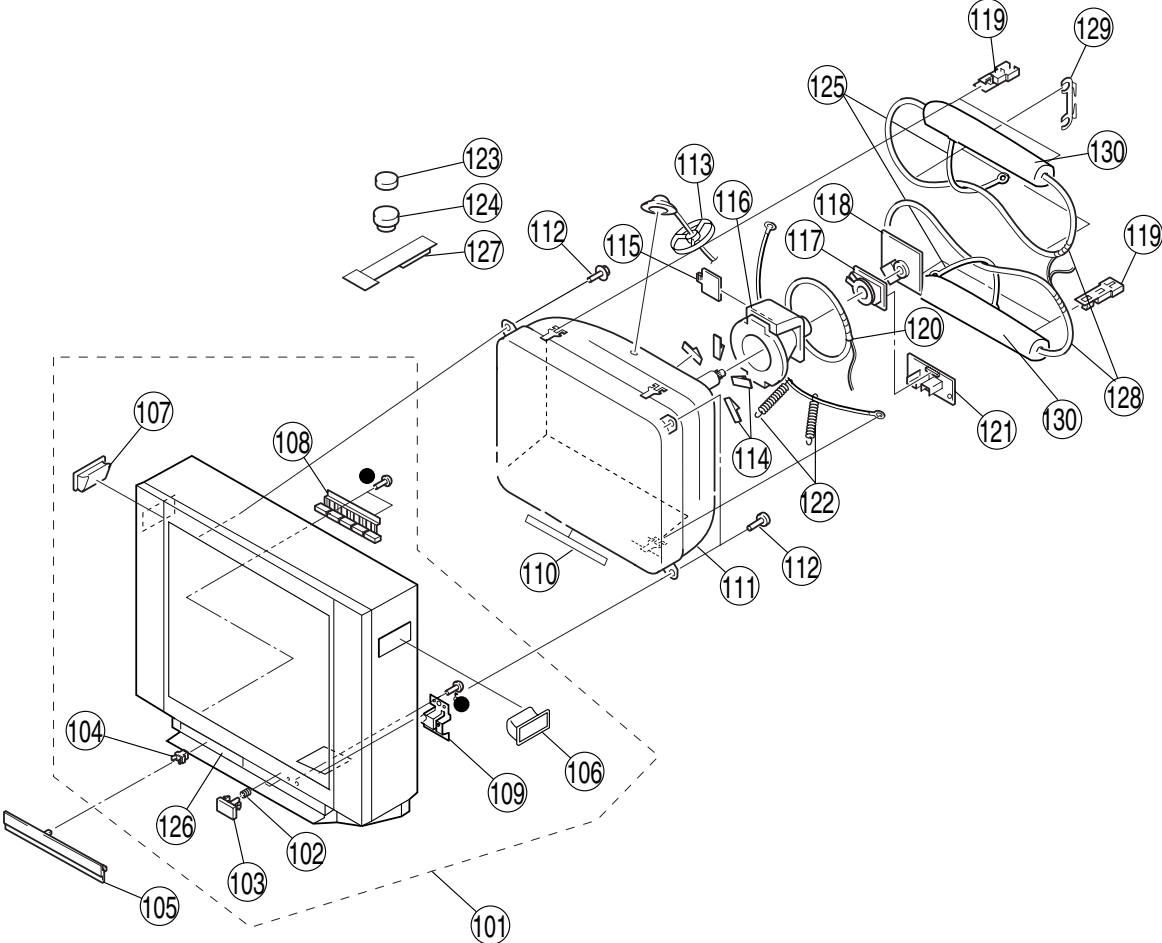


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	* A-1372-742-A	H2 BOARD MOUNTED (Except KV-XG29M60/ XG29M50(THAILAND))		59	* A-1299-132-A	A BOARD COMPLETE (KV-XG29M81)	
	* A-1372-752-A	H2 BOARD MOUNTED (KV-XG29M60/ XG29M50(THAILAND))			* A-1299-121-A	A BOARD COMPLETE (KV-XG29M30)	
52	* A-1136-065-A	B6 BOARD COMPLETE (Except KV-XG29M60/ XG29M50(THAILAND))			* A-1299-124-A	A BOARD COMPLETE (KV-XG29M50(MALAYSIA))	
	* A-1136-073-A	B6 BOARD COMPLETE (KV-XG29M60/ XG29M50(THAILAND))			* A-1299-139-A	A BOARD COMPLETE (KV-XG29M50(GE))	
53	4-022-115-00	HOLDER, AC CORD			* A-1299-120-A	A BOARD COMPLETE (KV-XG29M50(THAILAND))	
54	$\triangle$ 1-574-062-11	CORD, POWER (WITH CONNECTOR) 2.5A/ 250V (KV-XG29M50(MALAYSIA)/ XG29M50(GE)/XG29M80/XG29M81)			* A-1299-107-A	A BOARD COMPLETE (KV-XG29M60)	
	$\triangle$ 1-575-023-11	CORD, POWER (WITH CONNECTOR) 6A/250V (KV-XG29M60/XG2950(THAILAND))			* A-1299-138-A	A BOARD COMPLETE (KV-XG29M80)	
					* A-1299-131-A	A BOARD COMPLETE (KV-XG29M90)	
	$\triangle$ 1-574-358-51	CORD, POWER (WITH CONNECTOR) 7.5A/50V (KV-XG29M30)		60	* 4-066-681-04	BRACKET, MAIN	
	$\triangle$ 1-769-609-21	CORD, POWER (WITH CONNECTOR) (KV-XG29M90)		61	* A-1343-763-A	D3 BOARD MOUNTED (Except KV-XG29M60/ XG29M50(THAILAND))	
55	* 4-066-684-71	BRACKET, TERMINAL			* A-1343-773-A	D3 BOARD MOUNTED (KV-XG29M60/ XG29M50(THAILAND))	
56	* A-1347-155-A	V1 BOARD COMPLETE (KV-XG29M81 only)		62	* 4-070-963-01	HOLDER, PWB (KV-XG29M81 only)	
57	4-046-797-01	SCREW (3X12), (+)BVTAP		63	$\triangle$ 1-453-284-11	TRANSFORMER ASSY, FLYBACK (NX-4009//M314) (except KV-XG29M30)	
58	* A-1131-525-A	B2 BOARD MOUNTED (Except KV-XG29M60/ XG29M50(THAILAND))			$\triangle$ 1-453-297-21	TRANSFORMER ASSY, FLYBACK (NX-4009//M314) (KV-XG29M30 only)	
	* A-1131-544-A	B2 BOARD MOUNTED (KV-XG29M60/ XG29M50(THAILAND))		64	8-598-449-10	TUNER, FSS BTF-LG433 (Except KV-XG29M30/ XG29M60)	
					8-598-451-20	TUNER, FSS BTF-WG441 (KV-XG29M30/ XG29M60)	
					8-598-451-30	TUNER, FSS BTF-WG441 (KV-XG29M90)	

6-3. PICTURE TUBE

●: 7-685-648-71 SCREW BVTP 3 × 12

NOTE: The picture tube for Australia model is upside down, and the position for the anode-cap and tension spring is changed accordingly.



REF. NO.	PART NO.	DESCRIPTION	REMARK
101	X-4037-373-1	BEZNET ASSY (KV-XG29M80/XG29M81)	102-104,106-109,126
	X-4037-072-1	BEZNET ASSY (KV-XG29M30/XG29M90)	
	X-4037-374-1	BEZNET ASSY (KV-XG29M50(MALAYSIA)/XG29M50(GE)(THAILAND))	
	X-4037-354-1	BEZNET ASSY (KV-XG29M50 (THAILAND))	
	X-4037-355-1	BEZNET ASSY(KV-XG29M60)	
102	4-036-405-11	SPRING, COMPRESSION	
103	4-065-508-01	BUTTON, POWER	
104	4-047-464-01	CATCHER, PUSH	
105	4-071-047-11	DOOR, CONTROL	
106	4-070-957-01	HANDLE (R)	
107	4-070-956-01	HANDLE (L)	
108	4-065-509-01	BUTTON, CONTROL	
109	* 4-065-510-01	GUIDE, LIGHT	
110	4-072-569-11	SHEET, BLOTTING	
111	△ 8-735-056-05	PICTURE TUBE (M68LNH070X) (KV-XG29M50 (GE/EM)/XG29M60/XG29M50)(S)	
	△ 8-735-057-05	PICTURE TUBE (M68LNH070X) (KV-XG29M30/XG29M80/XG29M81/XG29M90)	
112	4-046-765-12	SCREW, TAPPING 7-CROWN WASHER	
113	* 3-704-372-11	HOLDER, HV CABLE	
114	4-072-365-01	SPACER, DY	

REF. NO.	PART NO.	DESCRIPTION	REMARK
115	2-163-920-01	PLATE, TLH CORRECTION	
116	△ 8-451-494-31	DEFLECTION YOKE (Y29RSA-S)	
117	8-453-011-11	NA299-M	
118	* A-1332-011-1-A	C6 BOARD MOUNTED (Except KV-XG29M60/XG29M50(THAILAND))	
	* A-1332-014-A	C6 BOARD MOUNTED (KV-XG29M60/XG29M50(THAILAND))	
119	* 4-062-970-11	CLIP (29RSN), DGC	
120	1-452-896-11	COIL, NA ROTATION (RT200)	
121	* A-1342-519-A	VM1 BOARD MOUNTED (Except KV-XG29M60/XG29M50(THAILAND))	
	A-1342-522-A	VM1 BOARD MOUNTED (KV-XG29M60/XG29M50(THAILAND))	
122	4-369-318-61	SPRING, TENSION	
123	1-452-032-00	MAGNET,DISC	
124	1-452-094-00	CIRCULAR DISC MAGNET B	
125	4-068-028-31	BAND, DGC	
126	4-032-761-01	SHAFT (S), DOOR	
127	X-4387-214-3	PERMALOY ASSY, CORRECTION	
128	△ 1-419-323-11	COIL, DEGAUSSING (Except KV-XG29M80/XG29M81)	
	△ 1-419-294-11	COIL, DEGAUSSING (KV-XG29M80/XG29M81)	
129	4-064-883-11	HOLDER, DGC	
130	4-063-935-11	CUSHION (50X550), DGC	

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

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

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

• 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 : μF, PF : μμF

COILS

• MMH : mH, UH : μH

REF. NO.	PART NO.	DESCRIPTION	REMARK
	* A-1299-121-A	A BOARD COMPLETE (KV-XG29M30)	
	* A-1299-139-A	A BOARD COMPLETE (KV-XG29M50(GE))	
	* A-1299-124-A	A BOARD COMPLETE (KV-XG29M50(MALAYSIA))	
	* A-1299-120-A	A BOARD COMPLETE (KV-XG29M50(THAILAND))	
	* A-1299-107-A	A BOARD COMPLETE (KV-XG29M60)	
	* A-1299-138-A	A BOARD COMPLETE (KV-XG29M80)	
	* A-1299-132-A	A BOARD COMPLETE (KV-XG29M81)	
	* A-1299-131-A	A BOARD COMPLETE (KV-XG29M90)	

	4-382-854-11	SCREW (M3X10), P, SW (+)	
	4-382-854-21	SCREW (M3X14), P, SW (+)	
		<CAPACITOR>	
C004	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
C005	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
C006	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C007	1-104-664-11	ELECT 47MF	20% 16V
C013	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C014	1-104-664-11	ELECT 47MF	20% 25V
C015	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C016	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C017	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C019	1-104-664-11	ELECT 47MF	20% 25V
C022	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C023	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C024	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C026	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C027	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C028	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C030	1-126-965-11	ELECT 22MF	20% 50V
C031	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C032	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C034	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C041	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C042	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C044	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C047	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C055	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C103	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C104	1-104-665-11	ELECT 100MF	20% 10V
C107	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C108	1-104-664-11	ELECT 47MF	20% 16V
C109	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C110	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C111	1-163-005-11	CERAMIC CHIP 470PF	10% 50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C112	1-104-664-11	ELECT 47MF	20% 16V
C113	1-104-664-11	ELECT 47MF	20% 25V
C114	1-126-967-11	ELECT 47MF	20% 50V
C202	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C203	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C204	1-136-161-00	MYLAR 0.047MF	5% 50V
C205	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C206	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C207	1-136-161-00	MYLAR 0.047MF	5% 50V
C208	1-126-964-11	ELECT 10MF	20% 50V
C209	1-126-964-11	ELECT 10MF	20% 50V
C210	1-126-933-11	ELECT 100MF	20% 16V
C211	1-126-941-11	ELECT 470MF	20% 25V
C212	1-126-933-11	ELECT 100MF	20% 16V
C213	1-126-933-11	ELECT 100MF	20% 16V
C214	1-126-942-61	ELECT 1000MF	20% 25V
C215	1-126-942-61	ELECT 1000MF	20% 25V
C216	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C217	1-126-964-11	ELECT 10MF	20% 50V
C218	1-136-167-00	MYLAR 0.15MF	5% 50V
C219	1-136-167-00	MYLAR 0.15MF	5% 50V
C220	1-126-942-61	ELECT 1000MF	20% 25V
C221	1-126-964-11	ELECT 10MF	20% 50V
C223	1-126-965-11	ELECT 22MF	20% 50V
C224	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C225	1-109-982-11	CERAMIC CHIP 1MF	10% 10V
C226	1-109-982-11	CERAMIC CHIP 1MF	10% 10V
C264	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C265	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C301	1-126-935-11	ELECT 470MF	20% 16V
C302	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C303	1-126-964-11	ELECT 10MF	20% 50V
C304	1-126-967-11	ELECT 47MF	20% 50V
C305	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C306	1-163-233-11	CERAMIC CHIP 18PF	5% 50V
C307	1-163-233-11	CERAMIC CHIP 18PF	5% 50V
C308	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C309	1-126-957-11	ELECT 0.22MF	20% 50V
C310	1-126-963-11	ELECT 4.7MF	20% 50V
C311	1-126-964-11	ELECT 10MF	20% 50V
C312	1-164-346-11	CERAMIC CHIP 1MF	16V
C313	1-164-346-11	CERAMIC CHIP 1MF	16V
C315	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C316	1-126-934-11	ELECT 220MF	20% 16V
C317	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C318	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C319	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C320	1-163-031-11	CERAMIC CHIP 0.01MF	50V

A

REF. NO.	PART NO.	DESCRIPTION	REMARK
C322	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C323	1-126-965-11	ELECT 22MF	20% 50V
C324	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C325	1-126-960-11	ELECT 1MF	20% 50V
C327	1-126-965-11	ELECT 22MF	20% 50V
C328	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C329	1-126-965-11	ELECT 22MF	20% 50V
C330	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C331	1-126-963-11	ELECT 4.7MF	20% 50V
C332	1-126-963-11	ELECT 4.7MF	20% 50V
C335	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C336	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C337	1-126-961-11	ELECT 2.2MF	20% 50V
C338	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C341	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C342	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C502	1-163-145-00	CERAMIC CHIP 0.0015MF	5% 50V
C503	1-126-964-11	ELECT 10MF	20% 50V
C506	1-107-638-11	ELECT 33MF	20% 160V
C507	1-161-830-00	CERAMIC 0.0047MF	500V
C510	1-102-112-00	CERAMIC 330PF	10% 50V
C512	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V
C513	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
C514	1-106-383-00	MYLAR 0.047MF	10% 200V
C517	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C518	1-104-665-11	ELECT 100MF	20% 10V
C519	1-102-212-00	CERAMIC 820PF	10% 500V
C521	1-126-934-11	ELECT 220MF	20% 16V
C522	1-126-933-11	ELECT 100MF	20% 16V
C523	1-102-002-00	CERAMIC 680PF	10% 500V
C524	1-126-967-11	ELECT 47MF	20% 50V
C526	1-130-495-00	MYLAR 0.1MF	5% 50V
C527	1-102-820-00	CERAMIC 330PF	5% 50V
C528	1-162-116-00	CERAMIC 680PF	10% 2KV
C530	1-137-372-11	MYLAR 0.022MF	5% 50V
C531	1-107-903-11	ELECT 2.2MF	20% 50V
C532	1-126-941-11	ELECT 470MF	20% 25V
C533	1-126-941-11	ELECT 470MF	20% 25V
C536	1-136-165-00	MYLAR 0.1MF	5% 50V
C537	1-126-969-11	ELECT 220MF	20% 50V
C538	1-136-617-11	FILM 0.019MF	3% 2KV
C539	1-129-723-00	FILM 0.056MF	5% 630V
C540	1-136-171-00	MYLAR 0.33MF	5% 50V
C546	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C549	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C550	1-106-220-00	MYLAR 0.1MF	10% 100V
C551	1-126-960-11	ELECT 1MF	20% 50V
C552	1-162-116-00	CERAMIC 680PF	10% 2KV
C553	1-162-116-00	CERAMIC 680PF	10% 2KV
C554	1-137-417-11	MYLAR 0.0047MF	10% 200V
C556	1-126-941-11	ELECT 470MF	20% 25V
C557	1-126-941-11	ELECT 470MF	20% 25V
C558	1-123-024-21	ELECT 33MF	160V
C560	1-102-228-00	CERAMIC 470PF	10% 500V
C561	1-129-898-00	FILM 0.0022MF	5% 630V
C562	1-102-228-00	CERAMIC 470PF	10% 500V
C564	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C565	1-107-655-11	ELECT 47MF	20% 250V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C566	1-102-244-00	CERAMIC	220PF	10%	500V
C567	1-115-520-11	FILM	0.68MF	5%	250V
C568	1-102-228-00	CERAMIC	470PF	10%	500V
C570	1-115-522-11	FILM	1MF	5%	250V
C572	1-117-661-21	FILM	0.15MF	5%	250V
C573	1-106-387-00	MYLAR	0.068MF	10%	200V
C574	1-104-709-11	ELECT	4.7MF	0	160V
C576	1-130-495-00	MYLAR	0.1MF	5%	50V
C577	1-106-395-00	MYLAR	0.15MF	10%	200V
C582	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C584	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C586	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C600	△ 1-104-705-11	MYLAR	0.1MF	20%	250V
C602	△ 1-104-705-11	MYLAR	0.1MF	20%	250V
C603	1-104-664-11	ELECT	47MF	20%	25V
C604	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C605	△ 1-119-886-51	CERAMIC	470PF	10%	250V
C606	△ 1-119-886-51	CERAMIC	470PF	10%	250V
C607	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C608	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C609	1-126-968-11	ELECT	100MF	20%	50V
C610	1-126-964-11	ELECT	10MF	20%	50V
C611	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C612	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C613	1-125-906-11	ELECT	560MF	20%	450V
C614	1-126-964-11	ELECT	10MF	20%	50V
C615	△ 1-119-886-51	CERAMIC	470PF	10%	250V
C618	1-125-893-11	FILM	680PF	3%	1.5KV
C619	△ 1-119-886-51	CERAMIC	470PF	10%	250V
C620	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C621	1-102-114-00	CERAMIC	470PF	10%	50V
C622	1-102-119-00	CERAMIC	0.0015MF	10%	50V
C623	1-104-665-11	ELECT	100MF	20%	25V
C624	1-125-772-91	CERAMIC	1500PF	10%	2KV
C625	1-102-002-00	CERAMIC	680PF	10%	500V
C626	1-102-002-00	CERAMIC	680PF	10%	500V
C628	1-126-942-61	ELECT	1000MF	20%	25V
C629	1-126-964-11	ELECT	10MF	20%	50V
C630	1-125-494-11	ELECT(BLOCK)	560MF	20%	160V
C632	1-128-339-11	ELECT	2200MF	20%	16V
C633	1-104-999-11	MYLAR	0.1MF	10%	200V
C634	1-126-933-11	ELECT	100MF	20%	16V
C635	1-104-665-11	ELECT	100MF	20%	10V
C636	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V
C641	1-102-002-00	CERAMIC	680PF	10%	500V
C642	1-126-943-11	ELECT	2200MF	20%	25V
C643	1-104-665-11	ELECT	100MF	20%	10V
C644	1-104-331-11	CERAMIC	0.0022MF	10%	1KV
C645	1-137-605-11	MYLAR	0.01MF	10%	250V
C646	1-107-679-91	ELECT	10MF	20%	450V
C647	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C649	1-126-940-11	ELECT	330MF	20%	25V
C650	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C651	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C652	1-126-965-11	ELECT	22MF	20%	50V
C653	1-104-664-11	ELECT	47MF	20%	25V
C655	△ 1-119-886-51	CERAMIC	470PF	10%	250V



REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
C657	1-101-821-00	CERAMIC	0.0022MF		500V	D320	8-719-069-60	DIODE UDZS-TE17-9.1B			
C901	1-136-153-00	MYLAR	0.01MF	5%	50V	D321	8-719-069-60	DIODE UDZS-TE17-9.1B			
C902	1-136-153-00	MYLAR	0.01MF	5%	50V	D504	8-719-302-43	DIODE EL1Z			
C912	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V						
C913	1-104-665-11	ELECT	100MF	20%	10V	D505	8-719-988-61	DIODE 1SS355TE-17			
		<CONNECTOR>				D506	8-719-911-19	DIODE 1SS119-25			
						D507	8-719-988-61	DIODE 1SS355TE-17			
						D508	8-719-988-61	DIODE 1SS355TE-17			
						D509	1-216-073-00	RES,CHIP	10K	5% 1/10W	
CN101 *	1-564-513-11	PLUG, CONNECTOR 10P									
CN102 *	1-564-507-11	PLUG, CONNECTOR 4P				D510	8-719-988-61	DIODE 1SS355TE-17			
CN104	1-695-915-11	TAB (CONTACT)				D511	8-719-988-61	DIODE 1SS355TE-17			
CN105 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P				D512	8-719-988-61	DIODE 1SS355TE-17			
CN106 *	1-564-506-11	PLUG, CONNECTOR 3P				D513	8-719-908-03	DIODE GP08D			
						D517	8-719-312-71	DIODE RS3FS			
CN202 *	1-508-847-00	PIN, CONNECTOR 4P									
CN205 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P				D518	8-719-074-35	DIODE RU4AM-T4			
CN301 *	1-774-813-11	CONNECTOR, BOARD TO BOARD 7P (KV-XG29M81)				D519	8-719-312-71	DIODE RS3FS			
						D521	8-719-302-43	DIODE EL1Z			
CN303 *	1-564-506-11	PLUG, CONNECTOR 3P				D523	8-719-302-43	DIODE EL1Z			
CN304 *	1-766-955-11	CONNECTOR, BOARD TO BOARD 11P				D527	8-719-908-03	DIODE GP08D			
CN305 *	1-564-509-11	PLUG, CONNECTOR 6P				D528	8-719-908-03	DIODE GP08D			
CN307 *	1-774-813-11	CONNECTOR, BOARD TO BOARD 7P (KV-XG29M81 only)				D531	8-719-988-61	DIODE 1SS355TE-17			
						D532	8-719-988-61	DIODE 1SS355TE-17			
CN501 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P				D534	8-719-988-61	DIODE 1SS355TE-17			
CN502 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P				D600	8-719-911-19	DIODE 1SS119-25			
CN503 *	1-564-510-11	PLUG, CONNECTOR 7P									
CN504	1-695-915-11	TAB (CONTACT)				D602	8-719-911-19	DIODE 1SS119-25			
CN505 *	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P				D602	8-719-991-33	DIODE 1SS133T-77			
CN507 *	1-564-509-11	PLUG, CONNECTOR 6P				D603	8-719-150-92	DIODE RD33EB3T			
CN508	1-695-915-11	TAB (CONTACT)				D604	8-719-028-72	DIODE RGP02-17EL-6433			
CN601 *	1-580-843-11	PIN, CONNECTOR (POWER)				D605	8-719-510-22	DIODE D3SB60			
CN602 *	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P				D606	8-719-108-18	THYRISTOR 5P6M			
CN603 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P				D607	8-719-073-01	DIODE MA111-(K8).S0			
CN604 *	1-691-134-11	PIN, CONNECTOR (PC BOARD) 2P (except KV-XG29M50(GE)/XG29M80/XG29M81)				D608	8-719-110-53	DIODE RD20ESB2			
						D610	8-719-043-76	DIODE AK04V0			
CN604 *	1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P (KV-XG29M50(GE)/XG29M80/XG29M81)				D611	8-719-046-74	DIODE AU-01Z-V1			
CN901 *	1-564-509-11	PLUG, CONNECTOR 6P				D613	8-719-046-74	DIODE AU-01Z-V1			
						D614	8-719-046-74	DIODE AU-01Z-V1			
						D616	8-719-067-18	DIODE RN4Z			
CN904 *	1-564-512-11	PLUG, CONNECTOR 9P				D617	8-719-073-84	DIODE 31DQ06-FC5			
						D620	8-719-110-72	DIODE RD30ESB2			
		<DIODE>									
D001	8-719-988-61	DIODE 1SS355TE-17				D622	8-719-071-39	DIODE FMU-G26S			
D005	8-719-988-61	DIODE 1SS355TE-17				D623	8-719-978-65	DIODE DTZ-TT11-15B			
D006	8-719-988-61	DIODE 1SS355TE-17				D624	8-719-073-01	DIODE MA111-(K8).S0			
D100	8-719-093-01	DIODE MA111-(K8).SO (KV-XG29M60/XG29M30/XG29M90 only)				D625	8-719-977-28	DIODE DTZ10B			
						D627	8-719-073-84	DIODE 31DQ06-FC5			
D203	8-719-914-42	DIODE DA204K									
D300	1-216-295-91	SHORT	0			D628	8-719-911-19	DIODE 1SS119-25			
D301	8-719-988-61	DIODE 1SS355TE-17				D631	8-719-068-00	DIODE ERC04-06SE			
D306	8-719-988-61	DIODE 1SS355TE-17				D632	8-719-068-00	DIODE ERC04-06SE			
D307	8-719-988-61	DIODE 1SS355TE-17				D633	8-719-948-45	DIODE ERA22-08			
D308	8-719-988-61	DIODE 1SS355TE-17				D634	8-719-073-01	DIODE MA111-(K8).S0			
D309	8-719-069-54	DIODE UDZS-TE17-5.1B				D635	8-719-073-01	DIODE MA111-(K8).S0			
D311	8-719-988-61	DIODE 1SS355TE-17				D636	8-719-510-02	DIODE D1NS4			
D312	8-719-988-61	DIODE 1SS355TE-17				D637	8-719-109-96	DIODE RD6.8ESB1			
D313	8-719-988-61	DIODE 1SS355TE-17				D638	8-719-510-48	DIODE D1N20R			
D314	8-719-988-61	DIODE 1SS355TE-17						<CONNECTOR>			
D315	8-719-988-61	DIODE 1SS355TE-17				DY1	* 1-580-798-11	CONNECTOR PIN (DY) 6P			
D316	8-719-037-06	DIODE RD7.5SB1-T1									

**KV-XG29M30/XG29M50/XG29M60/
KV-XG29M80/XG29M81/XG29M90**

RM-952

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

REF. NO.	PART NO.	DESCRIPTION	REMARK
<FERRITE BEAD>			
FB501	1-410-397-21	FERRITE 1.1UH	
FB502	1-410-397-21	FERRITE 1.1UH	
FB600	1-410-397-21	FERRITE 1.1UH	
FB601	1-410-397-21	FERRITE 1.1UH	
FB602	1-410-397-21	FERRITE 1.1UH	
FB603	1-410-397-21	FERRITE 1.1UH	
FB604	1-412-911-31	FERRITE 0UH	
FB605	1-406-656-21	INDUCTOR 3.3UH	
FB606	1-412-911-31	FERRITE 0UH	
FB608	1-412-911-31	FERRITE 0UH	
FB611	1-410-397-21	FERRITE 1.1UH	
FB612	1-410-397-21	FERRITE 1.1UH	
FB613	1-410-397-21	FERRITE 1.1UH	
FB615	1-412-911-31	FERRITE 0UH	
<IC>			
IC001	8-752-909-14	IC CXP86449-625S (KV-XG29M60/ XG29M50(THAILAND))	
IC001	8-752-910-12	IC CXP86449-627S (KV-XG29M50(GE)/XG29M90/ XG29M30/XG29M50(MALAYSIA))	
IC001	8-752-909-63	IC CXP86449-626S (KV-XG29M81/XG29M80)	
IC002	8-759-371-21	IC MM1319AFBE	
IC003	8-759-527-71	IC M24C08-BN6	
IC100	8-759-042-02	IC S-80743AL-A7-S (KV-XG29M30/XG29M60/ XG29M90 only)	
IC201	8-759-336-30	IC TA8223K	
IC301	8-752-090-41	IC CXA2139S	
IC502	8-759-700-07	IC NJM2903M	
IC503	8-759-980-58	IC TDA8172	
IC601	8-749-014-48	IC STR-F6656	
IC602	8-749-920-61	IC SE-135N	
IC603	8-759-701-59	IC NJM78M09FA	
IC604	8-759-231-53	IC TA7805S	
<CHIP CONDUCTOR>			
JR001	1-216-295-91	SHORT 0	
JR002	1-216-295-91	SHORT 0	
JR004	1-216-295-91	SHORT 0	
JR005	1-216-295-91	SHORT 0	
JR006	1-216-295-91	SHORT 0	
JR007	1-216-295-91	SHORT 0	
JR008	1-216-295-91	SHORT 0	
JR010	1-216-295-91	SHORT 0	
JR012	1-216-295-91	SHORT 0	
JR014	1-216-295-91	SHORT 0	
JR015	1-216-295-91	SHORT 0	
JR016	1-216-295-91	SHORT 0	
JR019	1-216-295-91	SHORT 0	
JR102	1-216-295-91	SHORT 0	
JR107	1-216-295-91	SHORT 0 (KV-XG29M90/XG29M60/ XG29M30 only)	
JR109	1-216-295-91	SHORT 0 (KV-XG29M80)	
JR202	1-216-295-91	SHORT 0	
JR204	1-216-295-91	SHORT 0	
JR309	1-216-295-91	SHORT 0	
JR500	1-216-295-91	SHORT 0	

REF. NO.	PART NO.	DESCRIPTION	REMARK
JR501	1-216-295-91	SHORT 0	
JR502	1-216-295-91	SHORT 0	
JR503	1-216-295-91	SHORT 0	
JR600	1-216-295-91	SHORT 0	
<COIL>			
L002	1-414-856-11	INDUCTOR 10UH	
L003	1-414-180-11	INDUCTOR 3.3UH	
L005	1-414-233-22	INDUCTOR CHIP 0UH	
L101	1-414-856-11	INDUCTOR 10UH	
L102	1-414-856-11	INDUCTOR 10UH	
L103	1-414-856-11	INDUCTOR 10UH	
L104	1-414-856-11	INDUCTOR 10UH	
L105	1-414-856-11	INDUCTOR 10UH	
L301	1-414-189-31	INDUCTOR 100UH	
L302	1-414-185-41	INDUCTOR 22UH	
L501	1-412-525-31	INDUCTOR 10UH	
L502	1-422-613-11	COIL, AIR CORE	
L503	1-412-525-31	INDUCTOR 10UH	
L504	1-412-525-31	INDUCTOR 10UH	
L507	1-459-111-00	INDUCTOR 10MMH	
L511	1-406-977-21	INDUCTOR 0UH	
L513	1-412-551-31	INDUCTOR 1.5MMH	
L515	1-459-104-00	COIL, WITH CORE	
L518	1-414-187-11	INDUCTOR 47UH	
L601	1-412-527-11	INDUCTOR 15UH	
L901	1-408-603-31	INDUCTOR 10UH	
L902	1-408-603-31	INDUCTOR 10UH	
L905	1-414-856-11	INDUCTOR 10UH	
<PHOTO COUPLER>			
PH600△	8-749-924-35	PHOTO COUPLER ON3171-R	
<IC LINK>			
PS200	1-532-675-21	LINK, IC 1.5A/150V	
<TRANSISTOR>			
Q002	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q003	8-729-424-08	TRANSISTOR UN2111	
Q004	8-729-421-22	TRANSISTOR UN2211	
Q101	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q201	8-729-424-67	TRANSISTOR UN2216	
Q202	8-729-424-67	TRANSISTOR UN2216	
Q205	8-729-421-19	TRANSISTOR UN2213	
Q206	8-729-421-19	TRANSISTOR UN2213	
Q207	8-729-421-19	TRANSISTOR UN2213	
Q301	8-729-216-22	TRANSISTOR 2SA1162-G	
Q302	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q304	8-729-216-22	TRANSISTOR 2SA1162-G	
Q305	8-729-216-22	TRANSISTOR 2SA1162-G	
Q306	8-729-216-22	TRANSISTOR 2SA1162-G	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q307	8-729-230-49	TRANSISTOR 2SC2712-YG		R047	1-414-233-22	INDUCTOR CHIP 0UH	
Q308	8-729-216-22	TRANSISTOR 2SA1162-G		R048	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q312	8-729-216-22	TRANSISTOR 2SA1162-G		R050	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q313	8-729-230-49	TRANSISTOR 2SC2712-YG		R053	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q315	8-729-421-19	TRANSISTOR UN2213		R055	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q503	8-729-230-49	TRANSISTOR 2SC2712-YG		R056	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q505	8-729-931-45	TRANSISTOR IRF614		R061	1-216-033-00	RES,CHIP 220	5% 1/10W
Q506	8-729-119-80	TRANSISTOR 2SC2688-LK		R062	1-216-041-00	RES,CHIP 470	5% 1/10W
Q507	8-729-216-22	TRANSISTOR 2SA1162-G		R063	1-216-041-00	RES,CHIP 470	5% 1/10W
Q509	8-729-230-49	TRANSISTOR 2SC2712-YG		R064	1-216-041-00	RES,CHIP 470	5% 1/10W
Q511	8-729-048-07	TRANSISTOR 2SD2578-CA		R065	1-216-041-00	RES,CHIP 470	5% 1/10W
Q600	8-729-119-78	TRANSISTOR 2SC2785-HFE		R066	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q601	8-729-023-22	TRANSISTOR 2SD2114K		R067	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q602	8-729-230-49	TRANSISTOR 2SC2712-YG		R101	1-216-025-91	RES,CHIP 100	5% 1/10W
Q603	8-729-424-08	TRANSISTOR UN2111		R102	1-216-025-91	RES,CHIP 100	5% 1/10W (
Q604	8-729-200-17	TRANSISTOR 2SA1091-O				(KV-XG29M30/XG29M60/XG29M90)	
Q605	8-729-044-30	TRANSISTOR 2SK2845-LB102				KV-XG29M30/XG29M60/XG29M90)	
Q606	8-729-230-49	TRANSISTOR 2SC2712-YG		R105	1-216-295-91	SHORT 0	
Q607	8-729-922-37	TRANSISTOR 2SD2144S-UVW		R109	1-216-041-00	RES,CHIP 470	5% 1/10W
Q608	8-729-230-49	TRANSISTOR 2SC2712-YG		R111	1-216-025-91	RES,CHIP 100	5% 1/10W
		<RESISTOR>		R112	1-216-025-91	RES,CHIP 100	5% 1/10W
				R113	1-216-047-91	RES,CHIP 820	5% 1/10W
R001	1-414-233-22	INDUCTOR CHIP 0UH		R202	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
R002	1-216-025-91	RES,CHIP 100	5% 1/10W	R203	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R003	1-216-073-00	RES,CHIP 10K	5% 1/10W	R204	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R004	1-216-025-91	RES,CHIP 100	5% 1/10W	R205	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R005	1-216-025-91	RES,CHIP 100	5% 1/10W	R206	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R008	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R207	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
R010	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R208	1-216-069-00	RES,CHIP 6.8K	5% 1/10W
R011	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R209	1-216-069-00	RES,CHIP 6.8K	5% 1/10W
R012	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R210	1-216-031-00	RES,CHIP 180	5% 1/10W
R013	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R212	1-216-031-00	RES,CHIP 180	5% 1/10W
R014	1-216-025-91	RES,CHIP 100	5% 1/10W	R225	1-216-033-00	RES,CHIP 220	5% 1/10W
R015	1-216-025-91	RES,CHIP 100	5% 1/10W	R226	1-216-033-00	RES,CHIP 220	5% 1/10W
R017	1-216-049-91	RES,CHIP 1K	5% 1/10W	R227	1-216-033-00	RES,CHIP 220	5% 1/10W
R018	1-216-033-00	RES,CHIP 220	5% 1/10W	R228	1-249-389-11	CARBON 4.7	5% 1/4W
R019	1-216-073-00	RES,CHIP 10K	5% 1/10W	R229	1-216-073-00	RES,CHIP 10K	5% 1/10W
R021	1-216-073-00	RES,CHIP 10K	5% 1/10W	R230	1-216-073-00	RES,CHIP 10K	5% 1/10W
R022	1-216-033-00	RES,CHIP 220	5% 1/10W	R231	1-216-295-91	SHORT 0	
R024	1-216-063-91	RES,CHIP 3.9K	5% 1/10W	R234	1-249-389-11	CARBON 4.7	5% 1/4W
R025	1-216-063-91	RES,CHIP 3.9K	5% 1/10W	R237	1-216-308-00	RES,CHIP 4.7	5% 1/10W
R026	1-216-063-91	RES,CHIP 3.9K	5% 1/10W	R301	1-216-073-00	RES,CHIP 10K	5% 1/10W
R027	1-216-073-00	RES,CHIP 10K	5% 1/10W	R302	1-216-295-91	SHORT 0	
R028	1-216-073-00	RES,CHIP 10K	5% 1/10W	R303	1-216-049-91	RES,CHIP 1K	5% 1/10W
		(KV-XG29M90/XG29M60/XG29M30 only)		R304	1-216-073-00	RES,CHIP 10K	5% 1/10W
R029	1-216-049-91	RES,CHIP 1K	5% 1/10W	R305	1-216-051-00	RES,CHIP 1.2K	5% 1/10W
R031	1-216-049-91	RES,CHIP 1K	5% 1/10W	R306	1-216-085-00	RES,CHIP 33K	5% 1/10W
R034	1-216-049-91	RES,CHIP 1K	5% 1/10W				
R035	1-216-025-91	RES,CHIP 100	5% 1/10W	R308	1-216-025-91	RES,CHIP 100	5% 1/10W
R036	1-216-025-91	RES,CHIP 100	5% 1/10W	R309	1-216-025-91	RES,CHIP 100	5% 1/10W
R037	1-216-025-91	RES,CHIP 100	5% 1/10W	R310	1-216-025-91	RES,CHIP 100	5% 1/10W
R040	1-216-025-91	RES,CHIP 100	5% 1/10W	R311	1-216-017-91	RES,CHIP 47	5% 1/10W
R041	1-216-025-91	RES,CHIP 100	5% 1/10W	R312	1-216-041-00	RES,CHIP 470	5% 1/10W
R042	1-216-295-91	SHORT 0		R313	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
R043	1-216-049-91	RES,CHIP 1K	5% 1/10W	R314	1-216-043-91	RES,CHIP 560	5% 1/10W
R044	1-216-025-91	RES,CHIP 100	5% 1/10W	R315	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
R045	1-414-233-22	INDUCTOR CHIP 0UH		R316	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
R046	1-216-049-91	RES,CHIP 1K	5% 1/10W	R317	1-216-077-91	RES,CHIP 15K	5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK			
R318	1-216-051-00	RES,CHIP	1.2K	5%	1/10W	
R319	1-216-025-91	RES,CHIP	100	5%	1/10W	
R320	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R321	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R322	1-216-033-00	RES,CHIP	220	5%	1/10W	
R326	1-216-295-91	SHORT	0			
R331	1-216-295-91	SHORT	0			
R332	1-216-033-00	RES,CHIP	220	5%	1/10W	
R333	1-216-083-00	RES,CHIP	27K	5%	1/10W	
R334	1-216-129-00	RES,CHIP	2.2M	5%	1/10W	
R335	1-216-045-00	RES,CHIP	680	5%	1/10W	
R338	1-216-037-00	RES,CHIP	330	5%	1/10W	
R340	1-216-025-91	RES,CHIP	100	5%	1/10W	
R345	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R346	1-216-051-00	RES,CHIP	1.2K	5%	1/10W	
R347	1-216-051-00	RES,CHIP	1.2K	5%	1/10W	
R348	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	
R349	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R350	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R351	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
R354	1-216-057-00	RES,CHIP	2.2K	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	
R357	1-216-079-00	RES,CHIP	18K	5%	1/10W	
R358	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R359	1-216-033-00	RES,CHIP	220	5%	1/10W	
R360	1-216-033-00	RES,CHIP	220	5%	1/10W	
R361	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R362	1-216-075-00	RES,CHIP	12K	5%	1/10W	
R363	1-216-079-00	RES,CHIP	18K	5%	1/10W	
R364	1-216-295-91	SHORT	0			
R365	1-216-033-00	RES,CHIP	220	5%	1/10W	
R366	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R367	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R368	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R370	1-216-033-00	RES,CHIP	220	5%	1/10W	
R375	1-216-025-91	RES,CHIP (KV-XG29M81)	100	5%	1/10W	
R376	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R377	1-216-121-91	RES,CHIP	1M	5%	1/10W	
R378	1-216-031-00	RES,CHIP	180	5%	1/10W	
R425	1-216-295-91	SHORT	0			
R500	1-247-831-91	CARBON	1K	5%	1/4W	
R501	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R505	1-216-699-91	METAL CHIP	100K	0.50%	1/10W	
R506	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R507	1-249-389-11	CARBON	4.7	5%	1/4W	F
R508	1-216-471-11	METAL OXIDE	27	5%	3W	F
R509	1-216-473-11	METAL OXIDE	56	5%	3W	F
R510	1-216-449-11	METAL OXIDE	56	5%	2W	F
R511	1-215-908-00	METAL OXIDE	33	5%	3W	F
R515	1-215-911-11	METAL OXIDE	100	5%	3W	F
R517	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W	
R518	1-247-807-31	CARBON	100	5%	1/4W	
R519	1-215-913-11	METAL OXIDE	220	5%	3W	F
R520	1-215-445-00	METAL	10K	1%	1/4W	
R522	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	
R523	1-249-411-11	CARBON	330	5%	1/4W	

REF. NO.	PART NO.	DESCRIPTION	REMARK			
R525	1-208-846-11	METAL CHIP	470K	0.50%	1/10W	
R526	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W	
R527	1-216-001-00	RES,CHIP	10	5%	1/10W	
R528	1-208-814-91	METAL CHIP	22K	0.50%	1/10W	
R529	1-208-766-11	METAL CHIP	220	0.50%	1/10W	
R531	1-247-843-11	CARBON	3.3K	5%	1/4W	
R533	1-247-831-91	CARBON	1K	5%	1/4W	
R534	1-216-364-11	METAL OXIDE	0.39	5%	2W	F
R535	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	
R536	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	
R537	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W	
R539	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R540	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R541	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R542	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R543	1-216-437-00	METAL OXIDE	5.6K	5%	1W	F
R544	1-215-917-11	METAL OXIDE	1K	5%	3W	F
R545	1-216-077-91	RES,CHIP	15K	5%	1/10W	
R546	1-216-077-91	RES,CHIP	15K	5%	1/10W	
R547	1-216-085-00	RES,CHIP	33K	5%	1/10W	
R548	1-208-796-11	METAL CHIP	3.9K	0.50%	1/10W	
R549	1-215-452-00	METAL	20K	1%	1/4W	
R550	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R551	1-249-441-11	CARBON	100K	5%	1/4W	
R552	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R553	1-215-453-00	METAL	22K	1%	1/4W	
R554	1-215-453-00	METAL	22K	1%	1/4W	
R556	1-215-437-00	METAL	4.7K	1%	1/4W	
R558	1-247-843-11	CARBON	3.3K	5%	1/4W	
R559	1-249-429-11	CARBON	10K	5%	1/4W	
R560	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R561	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R562	1-249-401-11	CARBON	47	5%	1/4W	
R564	1-208-820-11	METAL CHIP	39K	0.50%	1/10W	
R565	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R567	1-216-105-91	RES,CHIP	220K	5%	1/10W	
R568	1-249-383-11	CARBON	1.5	5%	1/4W	F
R570	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	
R571	1-215-443-00	METAL	8.2K	1%	1/4W	
R573	1-216-083-00	RES,CHIP	27K	5%	1/10W	
R575	1-208-796-11	METAL CHIP	3.9K	0.50%	1/10W	
R577	1-215-913-11	METAL OXIDE	220	5%	3W	F
R578	1-216-369-00	METAL OXIDE	1	5%	2W	F
R579	1-216-295-91	SHORT	0			
R580	1-208-830-11	METAL CHIP	100K	0.50%	1/10W	
R581	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W	
R582	1-208-846-11	METAL CHIP	470K	0.50%	1/10W	
R584	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W	
R587	1-216-295-91	SHORT	0			
R588	1-215-888-00	METAL OXIDE	220	5%	2W	F
R589	1-215-888-00	METAL OXIDE	220	5%	2W	F
R590	1-215-465-00	METAL	68K	1%	1/4W	
R591	1-260-288-11	CARBON	0.47	5%	1/2W	F
R592	1-208-820-11	METAL CHIP	39K	0.50%	1/10W	
R593	1-260-288-11	CARBON	0.47	5%	1/2W	F
R594	1-260-288-11	CARBON	0.47	5%	1/2W	F
R595	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R596	1-215-916-00	METAL OXIDE	680	5%	3W	F

The components identified by shading
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Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	REMARK
R597	1-247-750-11	CARBON 680 5%	1/2W F
R598	1-249-438-11	CARBON 56K 5%	1/4W
R599	1-249-389-11	CARBON 4.7 5%	1/4W
R600	1-249-438-11	CARBON 56K 5%	1/4W
R601	1-249-420-11	CARBON 1.8K 5%	1/4W F
R602	1-249-389-11	CARBON 4.7 5%	1/4W F
R603	1-215-485-00	METAL 470K 1%	1/4W
R604	1-216-097-91	RES,CHIP 100K 5%	1/10W
R607	1-249-425-11	CARBON 4.7K 5%	1/4W
R608	1-240-205-91	CARBON 22M 5%	1/2W
R609	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R610	1-216-073-00	RES,CHIP 10K 5%	1/10W
R611	1-216-089-91	RES,CHIP 47K 5%	1/10W
R612	1-216-045-00	RES,CHIP 680 5%	1/10W
R614	1-216-041-00	RES,CHIP 470 5%	1/10W
R615	1-216-369-00	METAL OXIDE 1 5%	2W F
R616	1-260-302-51	CARBON 6.8 5%	1/2W F
R617	1-247-791-91	CARBON 22 5%	1/4W
R619	1-260-128-11	CARBON 270K 5%	1/2W
R620	1-129-720-00	FILM 0.033MF 5%	630V
R621	1-215-859-00	METAL OXIDE 22 5%	1W F
R623	1-216-095-00	RES,CHIP 82K 5%	1/10W
R624	1-216-089-91	RES,CHIP 47K 5%	1/10W
R626	1-216-049-91	RES,CHIP 1K 5%	1/10W
R627	1-240-251-11	CMT,MELF 6.8 5%	10W
R629	1-247-747-11	CARBON 470 5%	1/2W F
R630	1-249-429-11	CARBON 10K 5%	1/4W F
R631	1-216-089-91	RES,CHIP 47K 5%	1/10W
R632	1-220-886-11	FUSIBLE 0.1 10%	1W F
R634 $\triangle$	1-218-265-11	METAL 8.2M 5%	1W
R636	1-215-924-00	METAL OXIDE 15K 5%	3W F
R639	1-216-361-21	METAL OXIDE 0.22 5%	2W F
R640	1-249-415-11	CARBON 680 5%	1/4W
R641	1-216-361-21	METAL OXIDE 0.22 5%	2W F
R642	1-249-419-11	CARBON 1.5K 5%	1/4W
R643	1-247-843-11	CARBON 3.3K 5%	1/4W
R644	1-249-419-11	CARBON 1.5K 5%	1/4W
R646	1-215-924-00	METAL OXIDE 15K 5%	3W F
R647	1-249-387-11	CARBON 3.3 5%	1/4W
R648	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R649	1-247-831-91	CARBON 1K 5%	1/4W
R650	1-215-882-00	METAL OXIDE 22 5%	2W F
R652	1-215-900-11	METAL OXIDE 22K 5%	2W F
R653	1-215-873-00	METAL OXIDE 4.7K 5%	1W F
R656	1-247-831-91	CARBON 1K 5%	1/4W
R657	1-260-127-11	CARBON 220K 5%	1/2W
R659	1-216-049-91	RES,CHIP 1K 5%	1/10W
R660	1-216-073-00	RES,CHIP 10K 5%	1/10W
R661	1-215-873-00	METAL OXIDE 4.7K 5%	1W F
R682	1-249-377-11	CARBON 0.47 5%	1/4W F
R901	1-249-411-11	CARBON 330 5%	1/4W
R902	1-249-411-11	CARBON 330 5%	1/4W
R909	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R910	1-216-065-91	RES,CHIP 4.7K 5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<RELAY>	
RY600 $\triangle$	1-755-276-21	RELAY, POWER	
RY601 $\triangle$	1-755-299-11	RELAY	
		<SWITCH>	
S501	1-572-707-11	SWITCH, LEVER	
S502	1-572-707-11	SWITCH, LEVER	
		<TRANSFORMER>	
T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
T503 $\triangle$	1-453-284-11	TRANSFORMER ASSY, FLYBACK NX-4009 (Except KV-XG29M30)	
$\triangle$	1-453-297-21	TRANSFORMER ASSY, FLYBACK NX-4009 (KV-XG29M30 only)	
T504	1-431-693-11	TRANSFORMER, HORIZONTAL LINEAR	
T601	1-424-505-11	TRANSFORMER, LINE FILTER	
T603 $\triangle$	1-431-976-11	TRANSFORMER, CONVERTER (SRT)	
T604 $\triangle$	1-431-852-11	TRANSFORMER, CONVERTER (SRT)	
		<THERMISTOR>	
THP600	1-803-540-11	THERMISTOR	
		<TUNER>	
TU101	8-598-449-10	TUNER, FSS BTF-LG433(Except KV-XG29M30/ XG29M60/XG29M90)	
TU101	8-598-451-20	TUNER, FSS BTF-WG441(KV-XG29M30/ XG29M60)	
TU101	8-598-451-30	TUNER, FSS BTF-WG441(KV-XG29M90)	
		<CRYSTAL>	
X001	1-579-125-11	VIBRATOR, CERAMIC	
X301	1-781-134-21	VIBRATOR, CRYSTAL	
X302	1-781-132-21	VIBRATOR, CRYSTAL	

	* A-1131-525-A	B2 BOARD COMPLETE	
	* A-1131-544-A	B2 BOARD COMPLETE (KV-XG29M60/ XG29M50(THAILAND) only)	

		<CONNECTOR>	
CN2302*	1-766-952-11	CONNECTOR, BOARD TO BOARD 11P	
		<MODULE>	
YCM2301	1-466-162-42	BLOCK, COMB FILTER (CFB-4)	

B6

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

REF. NO.	PART NO.	DESCRIPTION	REMARK		
	* A-1136-065-A	B6 BOARD COMPLETE			
	* A-1136-073-A	B6 BOARD COMPLETE (KV-XG29M60/ XG29M50(THAILAND) only) *****			
	1-533-223-11	CLIP, FUSE			
	* 4-374-846-01	COVER, CAPACITOR, CAP TYPE			
		<CAPACITOR>			
C8227	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C8228	1-163-024-00	CERAMIC CHIP	0.018MF	10%	50V
C8229	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
C8230	1-163-024-00	CERAMIC CHIP	0.018MF	10%	50V
C8231	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
C8232	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C8233	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8234	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8235	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8236	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8238	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C8240	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C8241	1-164-346-11	CERAMIC CHIP	1MF		16V
C8242	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C8243	1-164-346-11	CERAMIC CHIP	1MF		16V
C8244	1-164-700-11	CERAMIC CHIP	0.68MF		16V
C8245	1-164-346-11	CERAMIC CHIP	1MF		16V
C8246	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
C8247	1-164-346-11	CERAMIC CHIP	1MF		16V
C8248	1-163-010-11	CERAMIC CHIP	0.0012MF	10%	50V
C8249	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8250	1-164-346-11	CERAMIC CHIP	1MF		16V
C8251	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C8252	1-164-346-11	CERAMIC CHIP	1MF		16V
C8253	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C8254	1-126-965-11	ELECT	22MF	20%	50V
C8255	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C8258	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8259	1-126-933-11	ELECT	100MF	20%	16V
C8260	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C8261	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C8263	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8301	1-126-933-11	ELECT	100MF	20%	16V
C8304	1-126-967-11	ELECT	47MF	20%	50V
C8305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8333	1-126-964-11	ELECT	10MF	20%	50V
C8401	1-164-346-11	CERAMIC CHIP	1MF		16V
C8402	1-164-346-11	CERAMIC CHIP	1MF		16V
C8403	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C8404	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C8405	1-126-935-11	ELECT	470MF	20%	16V
C8406	1-164-346-11	CERAMIC CHIP	1MF		16V
C8407	1-164-346-11	CERAMIC CHIP	1MF		16V
C8408	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C8409	1-126-933-11	ELECT	100MF	20%	16V
C8410	1-164-346-11	CERAMIC CHIP	1MF		16V
C8411	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C8412	1-164-346-11	CERAMIC CHIP	1MF		16V

REF. NO.	PART NO.	DESCRIPTION	REMARK		
C8413	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C8414	1-126-963-11	ELECT	4.7MF	20%	50V
C8415	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C8416	1-164-346-11	CERAMIC CHIP	1MF		16V
C8417	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C8418	1-164-346-11	CERAMIC CHIP	1MF		16V
C8419	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C8571	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C8572	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8574	1-216-295-91	SHORT	0		
C8575	1-163-255-91	CERAMIC CHIP	150PF	5%	50V
C8576	1-104-661-91	ELECT	330MF	20%	16V
C8577	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C8578	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C8579	1-126-967-11	ELECT	47MF	20%	50V
C8580	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C8581	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C8601 △	1-104-708-11	MYLAR	0.47MF	20%	250V
C8602 △	1-109-835-11	MYLAR	0.68MF	20%	250V
C8654 △	1-117-703-11	CERAMIC	0.0047MF	99%	250V
<CONNECTOR>					
CN8300 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P			
CN8401 *	1-564-509-11	PLUG, CONNECTOR 6P			
CN8402 *	1-564-513-11	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			
D8401	8-719-158-35	DIODE RD9.1SB			
D8402	8-719-158-35	DIODE RD9.1SB			
D8403	8-719-158-35	DIODE RD9.1SB			
D8404	8-719-158-35	DIODE RD9.1SB			
D8405	8-719-158-35	DIODE RD9.1SB			
D8406	8-719-158-35	DIODE RD9.1SB			
D8407	8-719-158-35	DIODE RD9.1SB			
D8408	8-719-158-35	DIODE RD9.1SB			
D8409	8-719-158-35	DIODE RD9.1SB			
D8410	8-719-158-35	DIODE RD9.1SB			
D8411	8-719-158-35	DIODE RD9.1SB			
D8412	8-719-914-42	DIODE DA204K			
D8413	8-719-158-35	DIODE RD9.1SB			
<FUSE>					
F8601 △	1-532-299-00	FUSE, TIME-LAG 5A/250V			

B6

REF. NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
<IC>							R8334	1-216-022-00	RES,CHIP	75	5%	1/10W	
IC8203	8-759-553-40	IC TDA7429S					R8335	1-216-033-00	RES,CHIP	220	5%	1/10W	
IC8204	8-759-100-96	IC UPC4558G2					R8336	1-216-041-00	RES,CHIP	470	5%	1/10W	
IC8501	8-752-058-68	IC CXA1315M					R8337	1-216-045-00	RES,CHIP	680	5%	1/10W	
<JACK>							R8339	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
<JACK>							R8341	1-216-045-00	RES,CHIP	680	5%	1/10W	
<JACK>							R8342	1-216-049-91	RES,CHIP	1K	5%	1/10W	
J8402	1-778-388-11	JACK BLOCK, PIN 9P					R8343	1-216-063-91	RES,CHIP	3.9K	5%	1/10W	
<CHIP CONDUCTOR>							R8344	1-216-073-00	RES,CHIP	10K	5%	1/10W	
<CHIP CONDUCTOR>							R8401	1-216-049-91	RES,CHIP	1K	5%	1/10W	
<CHIP CONDUCTOR>							R8402	1-216-073-00	RES,CHIP	10K	5%	1/10W	
JR8206	1-216-295-91	SHORT	0			R8403	1-216-073-00	RES,CHIP	10K	5%	1/10W		
JR8401	1-216-295-91	SHORT	0			R8404	1-216-073-00	RES,CHIP	10K	5%	1/10W		
<COIL>							R8405	1-216-049-91	RES,CHIP	1K	5%	1/10W	
<COIL>							R8406	1-216-073-00	RES,CHIP	10K	5%	1/10W	
<COIL>							R8407	1-216-049-91	RES,CHIP	1K	5%	1/10W	
L8204	1-414-856-11	INDUCTOR	10UH			R8408	1-216-049-91	RES,CHIP	1K	5%	1/10W		
L8301	1-414-189-31	INDUCTOR	100UH			R8409	1-216-041-00	RES,CHIP	470	5%	1/10W		
L8502	1-414-856-11	INDUCTOR	10UH			R8410	1-216-113-00	RES,CHIP	470K	5%	1/10W		
L8570	1-410-470-11	INDUCTOR	10UH			R8411	1-216-113-00	RES,CHIP	470K	5%	1/10W		
<TRANSISTOR>							R8412	1-216-041-00	RES,CHIP	470	5%	1/10W	
<TRANSISTOR>							R8413	1-216-021-00	RES,CHIP	68	5%	1/10W	
Q8309	8-729-120-28	TRANSISTOR 2SC1623-L5L6					R8414	1-216-113-00	RES,CHIP	470K	5%	1/10W	
Q8310	8-729-120-28	TRANSISTOR 2SC1623-L5L6					R8415	1-216-113-00	RES,CHIP	470K	5%	1/10W	
Q8401	8-729-424-67	TRANSISTOR UN2216					R8416	1-216-089-91	RES,CHIP	47K	5%	1/10W	
Q8402	8-729-424-67	TRANSISTOR UN2216					R8417	1-216-089-91	RES,CHIP	47K	5%	1/10W	
Q8403	8-729-216-22	TRANSISTOR 2SA1162-G					R8418	1-216-113-00	RES,CHIP	470K	5%	1/10W	
Q8404	8-729-216-22	TRANSISTOR 2SA1162-G					R8419	1-216-022-00	RES,CHIP	75	5%	1/10W	
Q8571	8-729-230-49	TRANSISTOR 2SC2712-YG					R8420	1-216-113-00	RES,CHIP	470K	5%	1/10W	
Q8572	8-729-230-49	TRANSISTOR 2SC2712-YG					R8421	1-216-077-91	RES,CHIP	15K	5%	1/10W	
Q8573	8-729-216-22	TRANSISTOR 2SA1162-G					R8422	1-216-077-91	RES,CHIP	15K	5%	1/10W	
Q8574	8-729-230-49	TRANSISTOR 2SC2712-YG					R8423	1-216-113-00	RES,CHIP	470K	5%	1/10W	
Q8575	8-729-216-22	TRANSISTOR 2SA1162-G					R8424	1-216-022-00	RES,CHIP	75	5%	1/10W	
Q8576	8-729-216-22	TRANSISTOR 2SA1162-G					R8425	1-216-033-00	RES,CHIP	220	5%	1/10W	
Q8577	8-729-216-22	TRANSISTOR 2SA1162-G					R8426	1-216-033-00	RES,CHIP	220	5%	1/10W	
<RESISTOR>							R8427	1-216-089-91	RES,CHIP	47K	5%	1/10W	
<RESISTOR>							R8428	1-216-113-00	RES,CHIP	470K	5%	1/10W	
R8215	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	R8429	1-216-089-91	RES,CHIP	47K	5%	1/10W		
R8216	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	R8430	1-216-113-00	RES,CHIP	470K	5%	1/10W		
R8217	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R8570	1-216-021-00	RES,CHIP	68	5%	1/10W		
R8218	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R8571	1-216-645-11	METAL CHIP	560	0.50%	1/10W		
R8219	1-216-025-91	RES,CHIP	100	5%	1/10W	R8572	1-216-061-00	RES,CHIP	3.3K	5%	1/10W		
R8220	1-216-025-91	RES,CHIP	100	5%	1/10W	R8573	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R8221	1-216-689-11	RES,CHIP	39K	5%	1/10W	R8574	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W		
R8222	1-216-689-11	RES,CHIP	39K	5%	1/10W	R8575	1-216-081-00	RES,CHIP	22K	5%	1/10W		
R8223	1-216-063-91	RES,CHIP	3.9K	5%	1/10W	R8577	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R8224	1-216-073-00	RES,CHIP	10K	5%	1/10W	R8578	1-216-033-00	RES,CHIP	220	5%	1/10W		
R8225	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R8579	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R8226	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R8580	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R8238	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R8581	1-216-675-91	METAL CHIP	10K	0.50%	1/10W		
R8239	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R8582	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W		
R8240	1-216-689-11	RES,CHIP	39K	5%	1/10W	R8583	1-216-675-91	METAL CHIP	10K	0.50%	1/10W		
R8241	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R8584	1-216-675-91	METAL CHIP	10K	0.50%	1/10W		
R8242	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R8585	1-216-675-91	METAL CHIP	10K	0.50%	1/10W		
R8243	1-216-689-11	RES,CHIP	39K	5%	1/10W	R8586	1-216-679-11	METAL CHIP	15K	0.50%	1/10W		
						R8589	1-216-073-00	RES,CHIP	10K	5%	1/10W		
						R8590	1-216-073-00	RES,CHIP	10K	5%	1/10W		

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

C6

REF. NO.	PART NO.	DESCRIPTION	REMARK		
R8591	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8592	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8593	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8594	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8595	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8596	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8598	1-216-025-91	RES,CHIP	100	5%	1/10W
R8599	1-216-025-91	RES,CHIP	100	5%	1/10W
R8601	△ 1-202-719-00	SOLID	1M	10%	1/2W
<TRANSFORMER>					
T8601	1-424-505-11	TRANSFORMER, LINE FILTER			
T8602	1-431-182-11	TRANSFORMER, LINE FILTER			
<VARISTOR>					
VDR846	△ 1-803-830-31	VARISTOR (ERZV14D621)			

* A-1332-011-A	C6 BOARD MOUNTED				
* A-1332-014-A	C6 BOARD MOUNTED (KV-XG29M60/ XG29M50(THAILAND) only) *****				
4-382-854-11	SCREW (M3X10), P, SW (+)				
<CAPACITOR>					
C701	1-162-114-00	CERAMIC	0.0047MF		2KV
C702	1-102-074-00	CERAMIC	0.001MF	10%	50V
C708	1-102-114-00	CERAMIC	470PF	10%	50V
C709	1-102-114-00	CERAMIC	470PF	10%	50V
C710	1-102-114-00	CERAMIC	470PF	10%	50V
C712	1-102-114-00	CERAMIC	470PF	10%	50V
C713	1-102-110-00	CERAMIC	220PF	10%	50V
C714	1-102-113-00	CERAMIC	390PF	10%	50V
C716	1-126-933-11	ELECT	100MF	20%	16V
C717	1-107-651-11	ELECT	4.7MF	20%	250V
C726	1-104-664-11	ELECT	47MF	20%	25V
C1800	1-126-964-11	ELECT	10MF	20%	50V
C1803	1-126-964-11	ELECT	10MF	20%	50V
C1804	1-126-964-11	ELECT	10MF	20%	50V
C1809	1-126-942-61	ELECT	1000MF	20%	25V
<CONNECTOR>					
CN700	1-695-915-11	TAB (CONTACT)			
CN701	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
CN702	1-695-915-11	TAB (CONTACT)			
CN703	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN704	1-695-915-11	TAB (CONTACT)			
CN1801	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN1802	* 1-564-506-11	PLUG, CONNECTOR 3P			

REF. NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>			
D701	8-719-911-19	DIODE 1SS119-25	
D702	8-719-911-19	DIODE 1SS119-25	
D703	8-719-911-19	DIODE 1SS119-25	
D704	8-719-911-19	DIODE 1SS119-25	
D705	8-719-911-19	DIODE 1SS119-25	
D706	8-719-911-19	DIODE 1SS119-25	
D707	8-719-911-19	DIODE 1SS119-25	
D708	8-719-911-19	DIODE 1SS119-25	
D709	8-719-911-19	DIODE 1SS119-25	
D710	8-719-911-19	DIODE 1SS119-25	
D711	8-719-911-19	DIODE 1SS119-25	
D712	8-719-911-19	DIODE 1SS119-25	
D713	8-719-911-19	DIODE 1SS119-25	
D714	8-719-911-19	DIODE 1SS119-25	
D715	8-719-911-19	DIODE 1SS119-25	
D716	8-719-911-19	DIODE 1SS119-25	
D717	8-719-121-26	DIODE RD9.1ESL2	
D1803	8-719-911-19	DIODE 1SS119-25	
D1804	8-719-911-19	DIODE 1SS119-25	
D1808	8-719-908-03	DIODE GP08D	
<IC>			
IC1800	8-759-822-38	IC LA6510	
<JACK>			
J701 $\triangle$	1-540-071-22	SOCKET, CRT	
<COIL>			
L701	1-410-667-31	INDUCTOR	22UH
L703	1-408-611-31	INDUCTOR	47UH
L705	1-408-611-31	INDUCTOR	47UH
L707	1-408-611-31	INDUCTOR	47UH
<TRANSISTOR>			
Q701	8-729-326-11	TRANSISTOR 2SC2611	
Q702	8-729-326-11	TRANSISTOR 2SC2611	
Q703	8-729-326-11	TRANSISTOR 2SC2611	
Q704	8-729-326-11	TRANSISTOR 2SC2611	
Q705	8-729-326-11	TRANSISTOR 2SC2611	
Q706	8-729-326-11	TRANSISTOR 2SC2611	
Q707	8-729-200-17	TRANSISTOR 2SA1091-O	
Q708	8-729-200-17	TRANSISTOR 2SA1091-O	
Q709	8-729-200-17	TRANSISTOR 2SA1091-O	
Q710	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q711	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q712	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q714	8-729-255-12	TRANSISTOR 2SC2551-O	
Q1800	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1802	8-729-119-78	TRANSISTOR 2SC2785-HFE	



REF. NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>			
R701	1-249-496-11	CARBON 100K 5%	1/2W
R705	1-216-392-11	METAL OXIDE 1.8 5%	3W F
R710	1-215-923-00	METAL OXIDE 10K 5%	3W F
R711	1-260-101-11	CARBON 1.5K 5%	1/2W
R712	1-215-923-00	METAL OXIDE 10K 5%	3W F
R713	1-260-101-11	CARBON 1.5K 5%	1/2W
R714	1-215-923-00	METAL OXIDE 10K 5%	3W F
R715	1-260-101-11	CARBON 1.5K 5%	1/2W
R716	1-249-405-11	CARBON 100 5%	1/4W F
R717	1-249-405-11	CARBON 100 5%	1/4W F
R718	1-249-405-11	CARBON 100 5%	1/4W F
R719	1-215-469-00	METAL 100K 1%	1/4W
R720	1-249-923-11	CARBON 1K 5%	1/4W F
R722	1-249-923-11	CARBON 1K 5%	1/4W F
R723	1-215-469-00	METAL 100K 1%	1/4W
R724	1-249-923-11	CARBON 1K 5%	1/4W F
R725	1-249-424-11	CARBON 3.9K 5%	1/4W
R726	1-249-424-11	CARBON 3.9K 5%	1/4W
R727	1-249-424-11	CARBON 3.9K 5%	1/4W
R728	1-249-408-11	CARBON 180 5%	1/4W
R729	1-249-408-11	CARBON 180 5%	1/4W
R730	1-249-408-11	CARBON 180 5%	1/4W
R731	1-249-401-11	CARBON 47 5%	1/4W
R732	1-249-401-11	CARBON 47 5%	1/4W
R733	1-249-401-11	CARBON 47 5%	1/4W
R734	1-247-739-11	CARBON 100 5%	1/2W
R738	1-247-807-31	CARBON 100 5%	1/4W
R739	1-247-807-31	CARBON 100 5%	1/4W
R740	1-247-807-31	CARBON 100 5%	1/4W
R744	1-215-415-00	METAL 560 1%	1/4W
R745	1-215-410-00	METAL 360 1%	1/4W
R747	1-215-926-00	METAL OXIDE 33K 5%	3W F
R749	1-216-490-11	METAL OXIDE 39K 5%	3W F
R751	1-216-490-11	METAL OXIDE 39K 5%	3W F
R753	1-249-429-11	CARBON 10K 5%	1/4W
R755	1-249-427-11	CARBON 6.8K 5%	1/4W
R756	1-249-427-11	CARBON 6.8K 5%	1/4W
R757	1-249-427-11	CARBON 6.8K 5%	1/4W
R758	1-249-419-11	CARBON 1.5K 5%	1/4W
R759	1-249-419-11	CARBON 1.5K 5%	1/4W
R760	1-249-419-11	CARBON 1.5K 5%	1/4W F
R1800	1-247-831-91	CARBON 1K 5%	1/4W
R1801	1-249-426-11	CARBON 5.6K 5%	1/4W
R1802	1-249-387-11	CARBON 3.3 5%	1/4W F
R1803	1-249-387-11	CARBON 3.3 5%	1/4W F
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
R1822	1-249-435-11	CARBON 33K 5%	1/4W
R1823	1-249-426-11	CARBON 5.6K 5%	1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R1824	1-249-435-11	CARBON 33K 5%	1/4W
R1825	1-247-843-11	CARBON 3.3K 5%	1/4W
<VARIABLE RESISTOR>			
RV702	1-241-656-21	RES, ADJ, METAL FILM 110M	
RV1801	1-223-241-11	RES, ADJ, CARBON 47K	

* A-1343-763-A D3 BOARD MOUNTED			
* A-1343-773-A D3 BOARD MOUNTED (KV-XG29M60/ XG29M50(THAILAND) only)			

<CAPACITOR>			
C2800	1-104-664-11	ELECT 47MF 20%	25V
C2801	1-106-220-00	MYLAR 0.1MF 10%	100V
C2802	1-136-155-00	MYLAR 0.015MF 5%	50V
C2803	1-129-723-00	FILM 0.056MF 5%	630V
C2805	1-104-664-11	ELECT 47MF 20%	25V
C2806	1-106-383-00	MYLAR 0.047MF 5%	100V
C2807	1-137-194-81	MYLAR 0.47MF 5%	50V
C2808	1-126-964-11	ELECT 10MF 20%	50V
C2809	1-137-194-81	MYLAR 0.47MF 5%	50V
C2810	1-106-375-12	MYLAR 0.022MF 10%	250V
C2811	1-126-964-11	ELECT 10MF 20%	50V
C2812	1-126-964-11	ELECT 10MF 20%	50V
C2813	1-129-708-61	FILM 0.0033MF 5%	630V
<CONNECTOR>			
CN2800*	1-564-510-11	PLUG, CONNECTOR 7P	
CN2802*	1-564-506-11	PLUG, CONNECTOR 3P	
CN2803	1-695-915-11	TAB (CONTACT)	
<DIODE>			
D2800	8-719-302-43	DIODE EL1Z	
D2801	8-719-911-19	DIODE 1SS119-25	
D2802	8-719-911-19	DIODE 1SS119-25	
D2803	8-719-911-19	DIODE 1SS119-25	
<IC>			
IC2800	8-759-701-59	IC NJM78M09FA	
IC2801	8-759-998-98	IC LM358D	
<COIL>			
L2800	1-406-989-21	INDUCTOR 0UH	
L2802	1-406-987-21	INDUCTOR 4.7MMH	
L2803	1-406-986-21	INDUCTOR 3.3UH	
L2804	1-406-678-11	INDUCTOR 15MMH	

KV-XG29M30/XG29M50/XG29M60/
KV-XG29M80/XG29M81/XG29M90

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

D3

H2

V1 (KV-XG29M81)

REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSISTOR>			
Q2800	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q2801	8-729-195-82	TRANSISTOR 2SC2958-L	
Q2802	8-729-017-06	TRANSISTOR 2SC4793	
Q2803	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2804	8-729-230-49	TRANSISTOR 2SC2712-YG	
<RESISTOR>			
R2800	1-249-405-11	CARBON 100 5% 1/4W	F
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	F
R2808	1-215-857-11	METAL OXIDE 10 5% 1W	F
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		
* A-1372-752-A	H2 BOARD MOUNTED (KV-XG29M60/ XG29M50(THAILAND) only)		

* 4-055-304-01	HOLDER, LED		
<CAPACITOR>			
C2910	1-104-664-11	ELECT 47MF 20% 16V	
C2911	1-104-664-11	ELECT 47MF 20% 16V	
C2912	1-102-114-00	CERAMIC 470PF 10% 50V	
<CONNECTOR>			
CN2601*	1-580-844-11	PIN, CONNECTOR (POWER)	
CN2602*	1-580-844-11	PIN, CONNECTOR (POWER)	
CN2901*	1-564-507-11	PLUG, CONNECTOR 4P	
CN2902*	1-564-509-11	PLUG, CONNECTOR 6P	
CN2904*	1-564-508-11	PLUG, CONNECTOR 5P	
CN2905*	1-564-512-11	PLUG, CONNECTOR 9P	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>			
D2905	8-719-070-16	DIODE NNCD9.1A-T1	
D2906	8-719-045-19	DIODE SPB-26MVWF	
D2908	8-719-070-16	DIODE NNCD9.1A-T1	
<IC>			
IC2901	8-742-134-00	HYB IC SBX1981-51P	
<JACK>			
J2901	1-770-786-11	JACK	
J2903	1-770-329-11	JACK, PIN 3P	
<TRANSISTOR>			
Q2901	8-729-030-02	TRANSISTOR DTC144ESA	
Q2902	8-729-030-02	TRANSISTOR DTC144ESA	
<RESISTOR>			
R2907	1-249-426-11	CARBON 5.6K 5% 1/4W	
R2908	1-249-413-11	CARBON 470 5% 1/4W	
R2909	1-247-831-91	CARBON 1K 5% 1/4W	
R2910	1-247-837-91	CARBON 1.8K 5% 1/4W	
R2911	1-249-411-11	CARBON 330 5% 1/4W	
R2912	1-247-843-11	CARBON 3.3K 5% 1/4W	
R2913	1-249-429-11	CARBON 10K 5% 1/4W	
R2914	1-249-411-11	CARBON 330 5% 1/4W	
R2915	1-249-429-11	CARBON 10K 5% 1/4W	
R2916	1-249-401-11	CARBON 47 5% 1/4W	
R2920	1-247-807-31	CARBON 100 5% 1/4W	
R2921	1-247-807-31	CARBON 100 5% 1/4W	
<SWITCH>			
S2601 $\triangle$	1-571-433-21	SWITCH, PUSH (AC POWER)	
S2902	1-692-431-21	SWITCH, TACTILE	
S2903	1-692-431-21	SWITCH, TACTILE	
S2904	1-692-431-21	SWITCH, TACTILE	
S2905	1-692-431-21	SWITCH, TACTILE	
S2906	1-692-431-21	SWITCH, TACTILE	
S2907	1-692-431-21	SWITCH, TACTILE	
S2908	1-692-431-21	SWITCH, TACTILE	

* A-1347-155-A	V1 BOARD COMPLETE (KV-XG29M81 only)		

<CAPACITOR>			
C801	1-104-664-11	ELECT 47MF 20% 16V	
C805	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C806	1-163-038-91	CERAMIC CHIP 0.1MF 25V	

V1 (KV-XG29M81)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C814	1-163-021-91	CERAMIC CHIP	0.01MF 10% 50V	Q808	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C815	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	Q810	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C816	1-164-505-11	CERAMIC CHIP	2.2MF 16V	Q811	8-729-019-01	TRANSISTOR 2SD2394-EF	
C817	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	Q812	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C818	1-163-239-11	CERAMIC CHIP	33PF 5% 50V	Q813	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C820	1-163-239-11	CERAMIC CHIP	33PF 5% 50V	Q814	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C821	1-163-038-91	CERAMIC CHIP	0.1MF 25V	Q817	8-729-900-53	TRANSISTOR DTC114EK	
C822	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V	Q818	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C823	1-126-933-11	ELECT	100MF 20% 16V				
C826	1-126-963-11	ELECT	4.7MF 20% 50V			<RESISTOR>	
C829	1-163-113-00	CERAMIC CHIP	68PF 5% 50V	R800	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
C830	1-163-038-91	CERAMIC CHIP	0.1MF 25V	R801	1-216-295-91	SHORT	0
C831	1-126-933-11	ELECT	100MF 20% 16V	R802	1-216-025-91	RES,CHIP	100 5% 1/10W
C832	1-126-964-11	ELECT	10MF 20% 50V	R803	1-216-295-91	SHORT	0
C835	1-163-038-91	CERAMIC CHIP	0.1MF 25V	R804	1-216-295-91	SHORT	0
C837	1-126-933-11	ELECT	100MF 20% 16V	R805	1-216-295-91	SHORT	0
		<CONNECTOR>		R807	1-216-295-91	SHORT	0
CN801	* 1-774-812-11	CONNECTOR, BOARD TO BOARD 7P		R813	1-216-295-91	SHORT	0
CN803	* 1-774-812-11	CONNECTOR, BOARD TO BOARD 7P		R820	1-216-073-00	RES,CHIP	10K 5% 1/10W
		<DIODE>		R821	1-216-083-00	RES,CHIP	27K 5% 1/10W
D802	8-719-914-44	DIODE DAP202K		R822	1-216-025-91	RES,CHIP	100 5% 1/10W
D803	8-719-105-46	DIODE RD3.3M-B2		R824	1-216-295-91	SHORT	0
D804	8-719-105-91	DIODE RD5.6M-B2		R825	1-216-295-91	SHORT	0
D806	8-719-988-61	DIODE 1SS355TE-17		R827	1-216-295-91	SHORT	0
D807	8-719-988-61	DIODE 1SS355TE-17		R828	1-216-025-91	RES,CHIP	100 5% 1/10W
		<FERRITE BEAD>		R829	1-216-025-91	RES,CHIP	100 5% 1/10W
FB801	1-410-397-21	FERRITE	1.1UH	R830	1-216-295-91	SHORT	0
FB802	1-410-397-21	FERRITE	1.1UH	R831	1-216-295-91	SHORT	0
FB803	1-410-397-21	FERRITE	1.1UH	R832	1-208-790-11	METAL CHIP	2.2K 0.50% 1/10W
FB804	1-410-682-31	INDUCTOR	470UH	R835	1-216-295-91	SHORT	0
FB805	1-410-397-21	FERRITE	1.1UH	R839	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W
		<IC>		R841	1-216-025-91	RES,CHIP	100 5% 1/10W
IC801	8-759-476-87	IC SAA5261		R842	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
		<CHIP CONDUCTOR>		R843	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
JR801	1-216-295-91	SHORT	0	R844	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
JR802	1-216-295-91	SHORT	0	R845	1-216-049-91	RES,CHIP	1K 5% 1/10W
JR804	1-216-295-91	SHORT	0	R846	1-216-049-91	RES,CHIP	1K 5% 1/10W
JR805	1-216-295-91	SHORT	0	R847	1-216-049-91	RES,CHIP	1K 5% 1/10W
JR806	1-216-295-91	SHORT	0	R848	1-216-049-91	RES,CHIP	1K 5% 1/10W
JR807	1-216-295-91	SHORT	0	R849	1-216-049-91	RES,CHIP	1K 5% 1/10W
JR808	1-216-295-91	SHORT	0	R850	1-216-105-91	RES,CHIP	220K 5% 1/10W
		<TRANSISTOR>		R851	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R853	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
Q803	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R857	1-216-081-00	RES,CHIP	22K 5% 1/10W
Q805	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R858	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
Q806	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R861	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q807	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R862	1-260-095-11	CARBON	470 5% 1/2W
				R863	1-216-049-91	RES,CHIP	1K 5% 1/10W
				R864	1-216-041-00	RES,CHIP	470 5% 1/10W
				R866	1-215-880-00	METAL OXIDE	10 5% 2W F
				R871	1-216-037-00	RES,CHIP	330 5% 1/10W
				R879	1-216-073-00	RES,CHIP	10K 5% 1/10W
				R880	1-216-041-00	RES,CHIP	470 5% 1/10W
				R882	1-216-049-91	RES,CHIP	1K 5% 1/10W
				R884	1-216-025-91	RES,CHIP	100 5% 1/10W
				R888	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
				R889	1-216-073-00	RES,CHIP	10K 5% 1/10W

KV-XG29M30/XG29M50/XG29M60/
KV-XG29M80/XG29M81/XG29M90

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V1 (KV-XG29M81)

VM1

REF. NO.	PART NO.	DESCRIPTION	REMARK			
R890	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R894	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R895	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R896	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R897	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R898	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
<CRYSTAL>						
X801	1-578-774-11	VIBRATOR, CRYSTAL				

* A-1342-519-A	VM1 BOARD MOUNTED					
* A-1342-522-A	VM1 BOARD MOUNTED (KV-XG29M60/ XG29M50(THAILAND) only)					

4-382-854-11	SCREW (M3X10), P, SW (+)					
<CAPACITOR>						
C5902	1-104-661-91	ELECT	330MF	20%	16V	
C5903	1-161-830-00	CERAMIC	0.0047MF		500V	
C5905	1-126-925-11	ELECT	470MF	20%	10V	
C5906	1-130-491-00	MYLAR	0.047MF	5%	50V	
C5907	1-107-638-11	ELECT	33MF	20%	160V	
C5908	1-106-383-00	MYLAR	0.047MF	10%	200V	
C5909	1-126-933-11	ELECT	100MF	20%	16V	
C5910	1-130-471-00	MYLAR	0.001MF	5%	50V	
C5911	1-107-949-11	ELECT	2.2MF	20%	160V	
C5912	1-104-999-11	MYLAR	0.1MF	10%	200V	
C5913	1-130-471-00	MYLAR	0.001MF	5%	50V	
C5914	1-126-933-11	ELECT	100MF	20%	16V	
C5916	1-130-491-00	MYLAR	0.047MF	5%	50V	
C5917	1-126-925-11	ELECT	470MF	20%	10V	
C5918	1-115-341-51	CERAMIC	120PF	10%	500V	
C5920	1-126-964-11	ELECT	10MF	20%	50V	
C5921	1-102-852-91	CERAMIC	47PF	5%	50V	
<CONNECTOR>						
CN2801 *	1-564-506-11	PLUG, CONNECTOR 3P				
CN5901 *	1-564-510-11	PLUG, CONNECTOR 7P				
CN5904 *	1-770-723-11	CONNECTOR, BOARD TO BOARD 8P				
<DIODE>						
D5901	8-719-911-19	DIODE 1SS119-25				
D5902	8-719-110-88	DIODE RD39ESB2				
D5903	8-719-911-19	DIODE 1SS119-25				
D5904	8-719-110-88	DIODE RD39ESB2				
D5905	8-719-911-19	DIODE 1SS119-25				
D5906	1-249-406-11	CARBON	120	5%	1/4W	
D5907	1-249-406-11	CARBON	120	5%	1/4W	

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 2SC2458-YGR				
Q5903	8-729-230-45	TRANSISTOR 2SC2458-YGR				
Q5904	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q5905	8-729-230-45	TRANSISTOR 2SC2458-YGR				
Q5906	8-729-809-29	TRANSISTOR 2SC4159-E				
Q5908	8-729-230-45	TRANSISTOR 2SC2458-YGR				
Q5909	8-729-230-45	TRANSISTOR 2SC2458-YGR				
<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	1-247-831-91	CARBON	1K	5%	1/4W	
R5906	1-247-831-91	CARBON	1K	5%	1/4W	
R5907	1-247-831-91	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						

	1-251-317-12	CAP ASSY, HIGH-VOLTAGE				
	1-419-294-11	COIL, DEGAUSSING (KV-XG29M80/XG29M81)				
	1-419-323-11	COIL, DEGAUSSING (Except KV-XG29M80/ XG29M81)				

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

REF. NO.	PART NO.	DESCRIPTION	REMARK
	1-452-094-00	CIRCULAR DISC MAGNET B	
	1-452-032-00	MAGNET,DISC	
	1-452-896-11	COIL, NA ROTATION (RT200)	
	1-529-563-11	SPEAKER (15X6.5CM)	
	1-569-008-21	ADAPTOR, CONVERSION 2P	
	$\triangle$ 1-574-062-11	CORD, POWER (WITH CONNECTOR) 2.5A/ 250V (KV-XG29M50(MALAYSIA)/ XG29M50(GE)/XG29M80/XG29M81)	
	$\triangle$ 1-575-023-11	CORD, POWER (WITH CONNECTOR) 6A/250V (KV-XG29M60/XG2950(THAILAND))	
	$\triangle$ 1-574-358-51	CORD, POWER (WITH CONNECTOR) 7.5A/50V (KV-XG29M30)	
	$\triangle$ 1-769-609-21	CORD, POWER (WITH CONNECTOR) (KV-XG29M90)	
	$\triangle$ 8-451-494-31	DEFLECTION YOKE (Y29RSA-S)	
	8-453-011-11	NA299-M	
	$\triangle$ 8-735-056-05	PICTURE TUBE (M68LNH070X) (KV-XG29M50(GE/EM)/XG29M60/XG29M50(S))	
	$\triangle$ 8-735-056-05	PICTURE TUBE (M68LNH070X) (KV-XG29M30/XG29M80/XG29M81/XG29M90)	

ACCESSORIES AND PACKING MATERIALS

3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)
3-868-153-21	MANUAL, INSTRUCTION (KV-XG29M30)
3-868-153-11	MANUAL, INSTRUCTION (KV-XG29M50(MALAYSIA)/XG29M50(GE))
3-868-153-41	MANUAL, INSTRUCTION (KV-XG29M80/XG29M81)

REF. NO.	PART NO.	DESCRIPTION	REMARK
	3-868-153-31	MANUAL, INSTRUCTION (KV-XG29M90)	
	3-867-888-11	MANUAL, INSTRUCTION (KV-XG29M60/XG29M50(THAILAND))	
	4-392-004-11	CLIP (KV-XG29M60)	
	4-392-003-11	BAND, HOLD (KV-XG29M60/XG29M50(THAILAND))	
*	4-029-168-01	BAG, PROTECTION (KV-XG29M30/ XG29M50(MALAYSIA)/XG29M50(GE)/ XG29M80/XG29M81)	
	4-054-764-01	BAG PROTECTION (KV-XG29M50(THAILAND)/ XG29M60/XG29M90)	
*	4-054-319-01	TRAY	
	4-065-210-01	JOINT	
*	4-066-926-03	CUSHION (UPPER) (ASSY)(Except KV-XG29M60/ XG29M50(THAILAND))	
	4-067-438-02	CUSHION (UPPER) (ASSY) (KV-XG29M60/ XG29M50(THAILAND))	
*	4-066-927-02	CUSHION (LOWER) (ASSY) (KV-XG29M60/XG29M50(THAILAND))	
	4-067-439-02	CUSHION (LOWER) (ASSY)(Except KV-XG29M60/XG29M50(THAILAND))	
*	4-072-935-01	INDIVIDUAL CARTON (KV-XG29M30/ XG29M50(MALAYSIA)/XG29M50(GE)/XG29M80/ XG29M81/XG29M90)	
	4-073-166-01	INDIVIDUAL CARTON (KV-XG29M50(THAILAND)/XG29M60)	

REMOTE COMMANDER

1-418-163-11	REMOTE COMMANDER (RM-952)
9-939-697-01	BATTERY COVER, REMOTE COMMANDER

SERVICE MANUAL

BG-3S CHASSIS

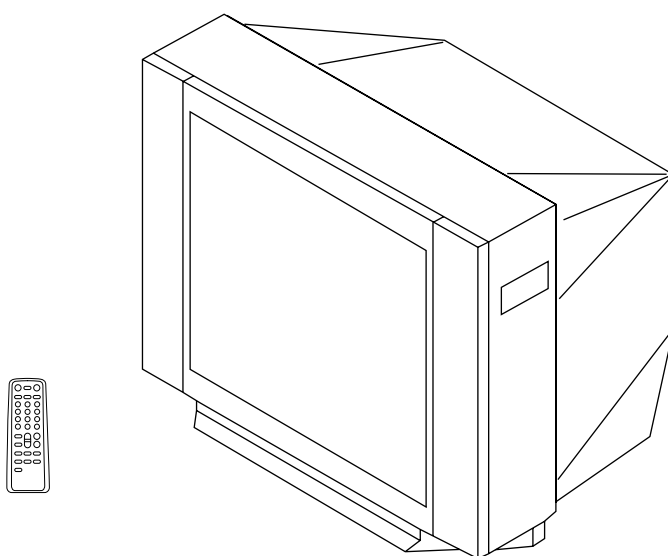
<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>	<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
KV-XG29M30	RM-952	Australia	SCC-U23D-A	KV-XG29M81	RM-952	ME	SCC-U30R-A
KV-XG29M50	RM-952	GE	SCC-U12S-A	KV-XG29M90	RM-952	Hong Kong	SCC-U17N-A
KV-XG29M50	RM-952	Malaysia	SCC-U21L-A				
KV-XG29M50	RM-952	Thailand	SCC-U18R-A				
KV-XG29M60	RM-952	Thailand	SCC-U18S-A				
KV-XG29M80	RM-952	ME	SCC-U30S-A				

SUPPLEMENT-3

SUBJECT : CHASSIS CHANGE TO BG3R

File this supplement with the Service Manual.

(Note: The change apply to model KV-XG29M60(Thailand) only)



TRINITRON® COLOR TV
SONY®

SECTION 4 CIRCUIT ADJUSTMENTS

Adjustment item table

Adjustment Item Table

TVG Category	Functionality		Initial	Range	Function	Table & Note	NVM Address			Remarks:	Initial data for tables
	No.	Name					Slave	Sub	Bit Range		
GEO	00	HPS	7	3F	H Position	50/60Hz	A0	A1/AE	7-2		
	01	HSZ	1F	3F	H Size	50/60Hz	A0	A0/AD	7-2		
	02	PAP	1F	3F	Pin Amp	50/60Hz	A0	A2/AF	7-2		
	03	TLT	7	0F	Trapezium	50/60Hz	A0	A4/B1	7-4		
	04	VPS	1F	3F	V Position	50/60Hz	A0	9E/AB	7-2		
	05	VSZ	1F	3F	V size	50/60Hz	A0	9D/AA	7-2		
	06	SCO	7	0F	S Correction	50/60Hz	A0	9F/AC	7-4		
	07	VLN	7	0F	V Linearity	50/60Hz	A0	9F/AC	3-0		
	08	BOW	7	0F	AFC Bow	50/60Hz	A0	A5/B2	7-4		
	09	AGL	7	0F	AFC Angle	50/60Hz	A0	A5/B2	3-0		
	0A	UPN	1F	3F	Upper Pin	50/60Hz	A0	A3/B0	7-2		
	0B	LPN	1F	3F	Lower Pin	50/60Hz	A0	A7/B4	7-2		
	0C	HLB	0	1	H Blanking on/off		A0	9A	1		
	0D	LBL	2	0F	Left H Blanking	50/60Hz	A0	A6/B3	7-4		
	0E	RBL	0B	0F	Right H Blanking	50/60Hz	A0	A6/B3	3-0		
WHB	00	RDR	25	3F	R Drive	DYNAMIC/others	A0	C0/BA	7-2		
	01	GDR	3F	3F	G Drive	DYNAMIC/others	A0	C1/BB	7-2		
	02	BDR	3F	3F	B Drive	DYNAMIC/others	A0	C2/BC	7-2		
	03	RCT	0F	0F	R Cutoff	SECAM/others	A0	C3/BD	3-0		
	04	GCT	0F	0F	G Cutoff	SECAM/others	A0	C4/BE	7-4		
	05	BCT	0F	0F	B Cutoff	SECAM/others	A0	C4/BE	3-0		
	06	BMN	1F	1F	Brightness Minimum Data		A0	22	6-2		
	07	SBR	3F	3F	Sub Brightness Control		A0	23	7-2		
	08	APB	3	3	Sub Bright Control Switch for Intelligent Picture #3		A0	23	1-0		
	00	PMX	3F	3F	Picture Maximum Data	non-Wide/Wide	A0	21/20	7-2		
	01	SHU	0F	0F	Sub Hue Control	TV/Video	A0	24/38	5-2		
	02	SSH	0F	0F	Sub Sharpness Control	TV/Video	A0	25/36	7-4		
SAJ	03	SCL	3F	3F	Sub Color Control	(NTSC/others)/WIDE(NTSC/others)	A0	(37/26)(3C/3B)	7-2		

Adjustment Item Table

TVG Category	Functionality No.	Name	Initial	Range	Function	Table & Note	NVM Address			Remarks:
							Slave	Sub	Bit Range	Initial data for tables
VP	00	EHT	4	0F	EHT Comp	50/60Hz	A0	A4/B1	3-0	
	01	GMA	2	03	Gamma Correction (sepatated in STANDARD mode)	Refer NVM Map A4	A4	66/67/68/69	1-0	
	02	APG	0	1	Gamma Control Switch for Intelligent Picture #3		A4	66/67/68/69	2	
	03	YDL	6	0F	Y Delay	PAL/SECAM/NTSC	A0	B7/B8/B9	3-0	
	04	SST	1	03	SECAM ID Start Position	SECAM/PAL	A4	6A/6C	5-4	
	05	SSP	1	03	SECAM ID Stop Position	SECAM/PAL	A4	6A/6C	7-6	
	06	RLM	0	3	RGB Limit		A0	83	1-0	
	07	SLV	2	03	SECAM ID Level	SECAM/PAL	A4	6B/6D	1-0	
	08	SBF	22	3F	SECAM BELL f0	SECAM/PAL	A4	6B/6D	7-2	
	09	DYC	1	1	Dynamic Color on/off		A0	8C	1	
	0A	ABL	1	1	ABL Mode Switching (except STANDARD mode)	STANDARD Always 0	A0	8B	1	
	0B	VTH	1	1	ABL Detection Vth Switching		A0	8B	0	
	0C	SFO	1	1	FO Switching for Sharpness	NTSC/others	A4	5C/59	1	
	0D	DCX	1	1	DC Trans. Ratio Switching		A0	88	1	
	0E	SHT	1	1	Pre-/Overshoot ratio Switch	NTSC/others	A4	5D/5A	0	
	0F	HDW	0	1	H Drive Pulse Width Switch		A0	80	6	
	10	AFC	1	03	AFC Gain Control	TV/Video/Text	A0	28/29/2A	1-0	
	11	HOS	7	0F	H Oscillation		A0	8E	7-4	
	12	HSS	0	1	Slice Level of H Sync Sep.		A0	8F	1	
	13	VSS	0	1	Slice Level of V Sync Sep.		A0	8F	0	
	14	HMS	1	1	Macro Vision C/m off/on	50/60Hz	A0	9D/AA	0	
AP	15	YUV	0	1	Y SEL		A0	80	2	
	16	CDV	1	3	CD mode for Video and RF under no signal	Video only	A0	2B	5-4	
	17	RON	1	1	R ON	not memorized	A0	81	2	
	18	GON	1	1	G ON	not memorized	A0	81	1	
	19	BON	1	1	B ON	not memorized	A0	81	0	
	1A	PON	1	1	P ON	not memorized	A0	80	7	
	1B	AXN	1	1	AXIS SW	NTSC/others (only for DYNAMIC)	A0	37/26	0	
	1C	RSL	0	1	RGB SEL		A0	8C	0	
	1D	VBW	1	3	VBLKW		A0	96	1-0	
	1E	RFP	0	1	REFP		A0	94	0	
	1F	JMP	0	1	Jump		A0	9A	0	
	20	VMC	3	3	VM Off		A0	83	3-2	
	00	INF	5	3F	Input Attenuation When surround off		A0	73	5-0	
	01	INS	0A	3F	Input Attenuation When surround on (XG-ONLY)		A0	74	5-0	
	02	SEF	0	0F	Surround Effect Control (XA-ONLY)		A0	76	6-3	
	03	PH1	3	3	Phase 1 Register Selection		A0	77	1-0	
	04	PH2	0	3	Phase 2 Register Selection (XG-ONLY)		A0	77	3-2	

Adjustment Item Table

TVG Category	Functionality		Initial	Range	Function	Table & Note	NVM Address			Remarks:
	No.	Name					Slave	Sub	Bit Range	
MSP	05	PH3	0	3	Phase 3 Register Selection (XG-ONLY)		A0	77	5-4	
	06	PH4	0	3	Phase 4 Register Selection (XG-ONLY)		A0	77	7-6	
	07	BCS	2	3	Base Center Shift		A0	57	1-0	
	08	TCS	2	3	Treble Center shift		A0	58	1-0	
	09	TRF	2	3	RF Treble Offset		A0	58	5-4	
	00	WST	15	FF	W/G Stereo Threshold		A0	60	7-0	
	01	WBT	EA	FF	W/G Bilingual Threshold		A0	61	7-0	
	02	WLL	5	FF	W/G Monaural Threshold		A0	62	7-0	
	03	WAC	0	0F	W/G Agreement Count		A0	63	3-0	
TMT	04	WDL	30	FF	W/G Search Delay		A0	64	7-0	
	05	NDL	20	FF	NICAM Search Delay		A0	65	7-0	
	06	SDL	10	FF	Stereo Status Read Delay		A0	66	7-0	
	07	AGC	1	1	AGC Switch Auto/Constant		A0	68	7	
	08	REL	28	3F	AGC Gain at Constant Mode		A0	68	6-1	
	09	CRM	0	1	Carrier Muting on/off		A0	67	1	
	0A	ACO	1	1	Audio Clock out on/off		A0	69	5	
	0B	FP	1B	7F	FM Prescale for non-M system		A0	6A	6-0	
	0C	FPM	32	7F	FM Prescale for M system		A0	6B	6-0	
	0D	FH	36	7F	FM Prescale for HDEV		A0	6C	6-0	
	0E	FHM	65	7F	FM Prescale for HDEV and M		A0	6D	6-0	
	0F	WGP	2A	7F	W/G Prescale		A0	6E	6-0	
TXT	10	NIP	6D	7F	NICAM Prescale		A0	6F	6-0	
	11	ERR	50	FF	Auto FM Switch Threshold		A0	70	7-0	
	12	VOL	6D	FF	Loud Speaker gain 7000h to 7ff0h		A4	62	7-0	
	00	TXH	0	3	Teletext Horizontal Position		A4	55	1-0	
	01	TXV	0	3	Teletext Vertical Position		A4	55	5-4	
	00	OSH	0A	3F	OSD H Position	Option-Misc	A0	27	7-2	
	01	COM	1	03	Comb Selection		A0	50	7-6	
	02	APC	1	1	APC Switch		A0	4F	5	
	03	TSY	0	03	TV Sys at Auto TV Sys		A0	4F	4-3	
	04	MUT	0	1	No Signal Mute		A0	4F	0	
	05	AFM	0	1	Auto FM Switch		A0	4F	1	
	06	RFB	0	3	C-BPF Control		A0	50	5-4	
OPB	07	TV0	0	7	Tilt to V-Angle Offset		A0	50	2-0	
	08	DBL	0	1	Disable Blueback Function		A0	4F	2	
	00	OP1	FF	FF	Optional Bits 1 (see the specified sheet)	Option-Bits	A0	2D	7-0	
	01	OP2	62	FF	Optional Bits 2 (see the specified sheet)		A0	2E	7-0	
	02	OP3	B1	FF	Optional Bits 3 (see the specified sheet)		A0	2F	7-0	
	03	OP4	02	FF	Optional Bits 4 (see the specified sheet)		A0	30	7-0	

OPTION NOTE
OP1

Item	XTAL 4.43	XTAL 3.58	SECAM	2nd. Lang	B/G	I	D/K	M
KV-XG29M60	1	1	1	1	1	1	1	1

NOTE: When Bit 7,6& 5 = 000, Only PAL color system is selected.
When Bit 7 is selected, Auto, PAL & NTSC 4.43 Color system is enable.
When Option is single color system, Color system cannot be changed & "AUTO" will not be displayed.

OP2

Item	TOP	NICAM	HDEV	Thai Bil	Dis Fav.	DVD Input	AV Input	
KV-XG29M60	0	1	1	0	0	0	1	0

AV Input 00 = no AV Input 01 = 1 AV Input
 10 = 2 AV Input 11 = 3 AV Input
DVD Input Effective only when "AV Input" is set to 3 AV Input
Dis Fav. Disable Favorite Channel (Only Effective For 21" & 14" Models Only)

OP3

Item	PIC Rotate*1	2199 Curve*1	Auto PIC	Auto TV sys	US ST	AV Mono*1	11 KEY	Color SW*2&*1
KV-XG29M60	0	0	1	1	0	0	0	0

PIC Rotate*1 PIC Rotation Switch 0 = disabled, 1 = enabled
2199 Curve*1 2199 volume Curve Selection 0 = Others, 1 = 2199 Volume Curve.
Auto PIC Auto Picture Improvement 0 = inactive 1 = activate
A-TVsys Auto TV System in Auto Program 0 = disabled, 1 = enabled
US ST USA Stereo 0 = disabled, 1 = enabled
AV MONO*1 AV Mono models 0 = Stereo, 1 = Mono
 (No Balance & Surround selection)
11 Key Front Key Selection 0 = 7 key model, 1 = 11 key model
Color SW*2&*1 Color Data Selection in Dynamic Mode 0 = 65 (No PIP), 1 = 57 (PIP)

Note: *1 - For XA-21/XG25 Models Only
 *2 - For XA-34/29/25 Models Only

OP4

Item	(unused)	(unused)	(unused)	(unused)	(unused)	(unused)	AP_XG*1	(unused)
KV-XG29M60	0	0	0	0	0	0	1	0

AP_XG*1 To select the XG AP (board B6) 0: No; 1 = Yes

Note: *1 - For XA-21/XG25 Models Only

4-4. A BOARD ADJUSTMENT AFTER IC003 (Memory Replacement)
(see page 38)

When replacing IC003 (MEMORY), be sure to change IC001 (M-CON) to the following new IC at the same time. IC001 (M-CON):
CXP86449-632S (KV-XG29M60 (Thailand))

MEMO

1 2 3 4 5 6 7 8 9 10 11 12 13 14

A

B

C

D

E

F

G

H

I

J

⚠ A PAGE 1 (1/4)

(SYSTEM CONTROLLER, Y/C JUNGLE, DEFLECTION,
TUVIF, FRONT AMP, POWER SUPPLY)

TO B BOARD
CN1404

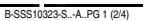
TO B BOARD
CN1406

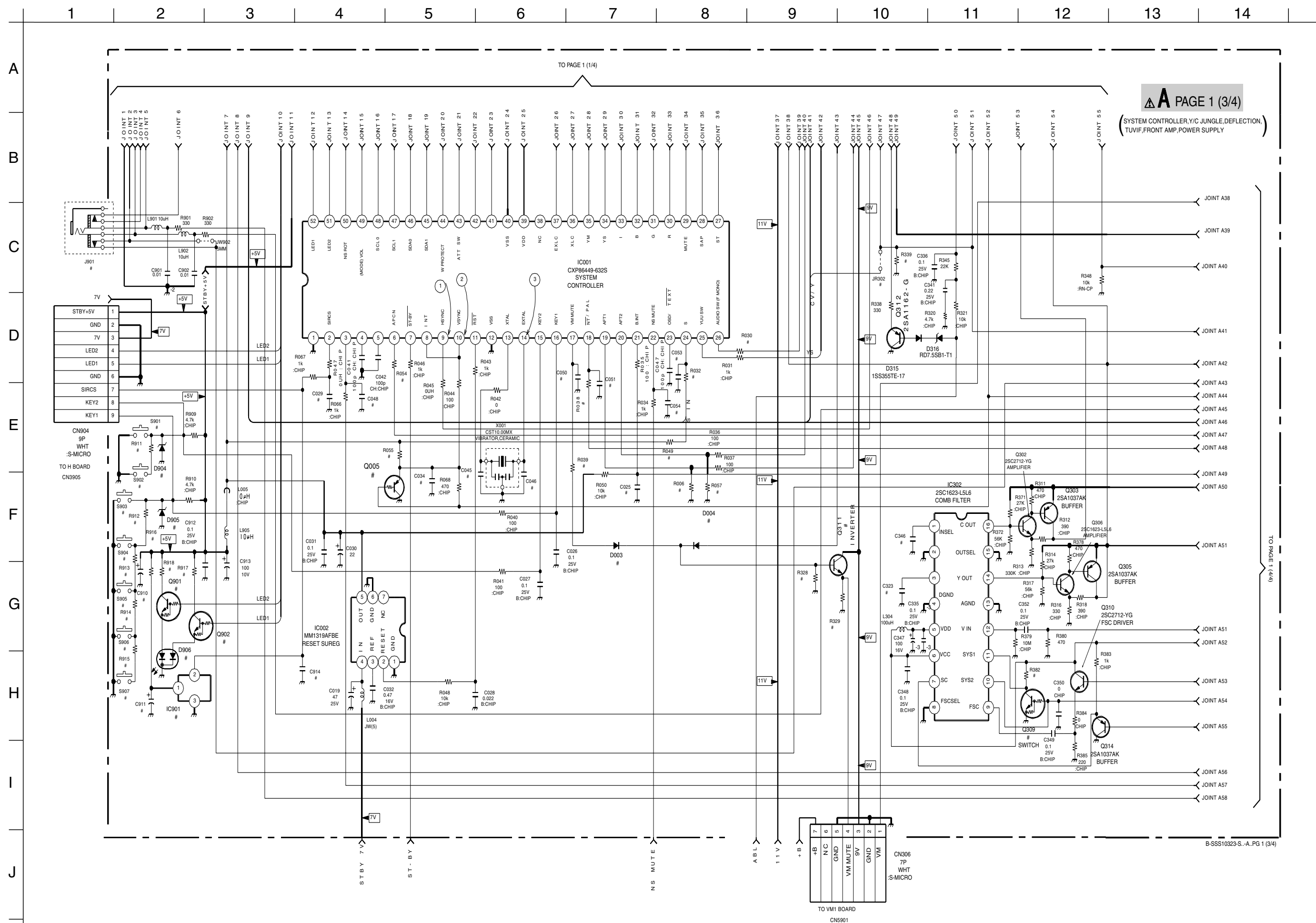
JOINT A1
JOINT A2
JOINT A3
JOINT A4
JOINT A5
JOINT A6
JOINT A7
JOINT A8
JOINT A9
JOINT A10
JOINT A11
JOINT A12
JOINT A13
JOINT A14
JOINT A15
JOINT A16
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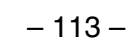
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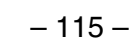
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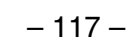
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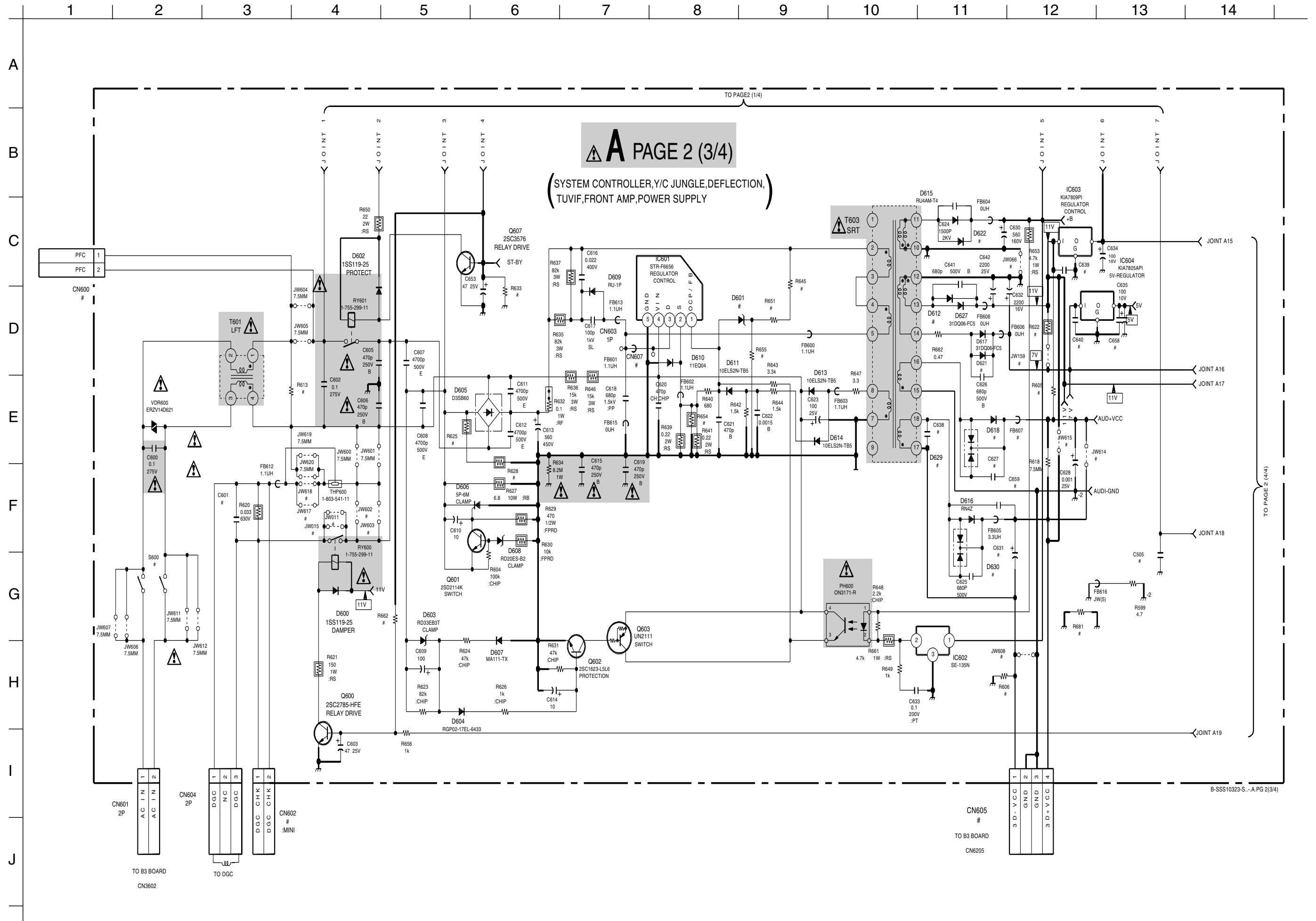


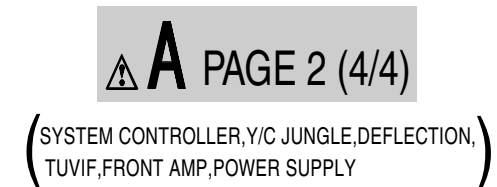




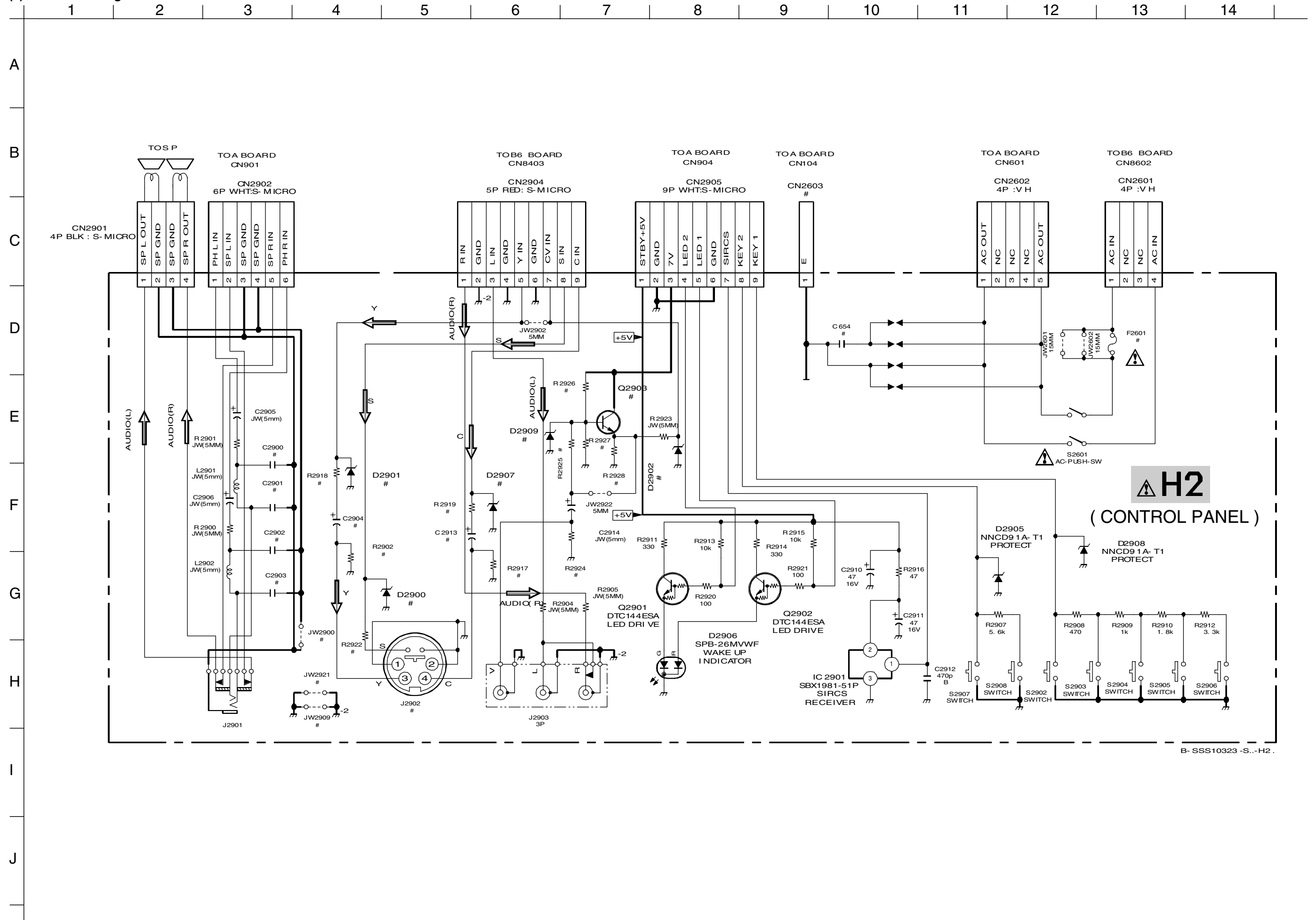




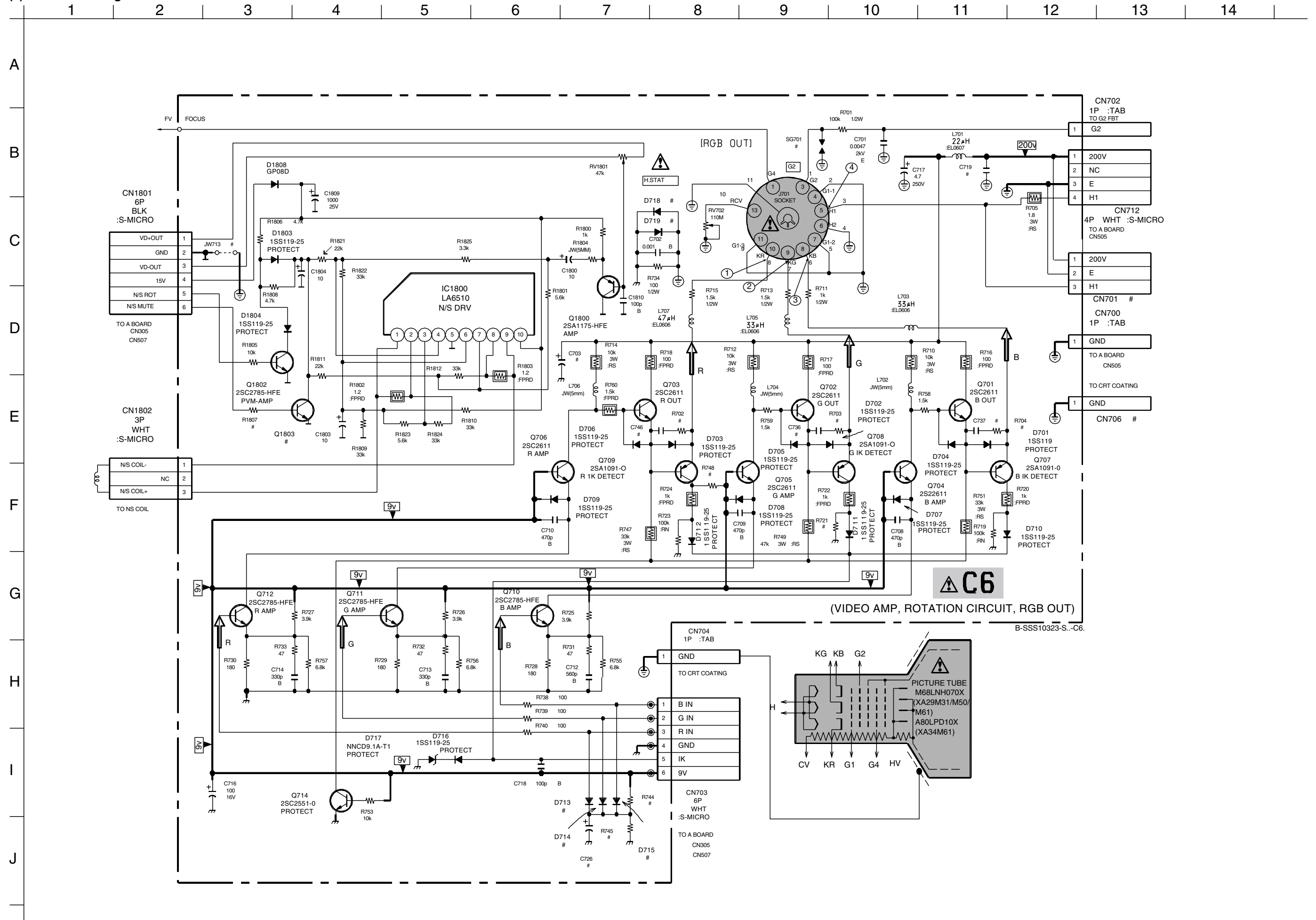




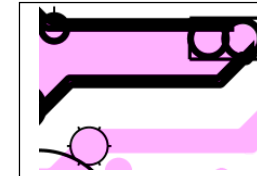
(3) Schematic Diagram of H2 Board



(5) Schematic Diagram of C6 Board



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



NOTE:
The circuit indicated at left contains high voltage of over 1220 Vp-p. Please pay attention when inspecting or repairing it to prevent an electric shock.

This is a detailed technical schematic of a Sony CCD camera PCB. The layout is organized with a coordinate grid on the left and top edges, ranging from 1 to 13 horizontally and A to J vertically. The PCB is populated with numerous electronic components, including integrated circuits (ICs), resistors, capacitors, and connectors. Key components include:

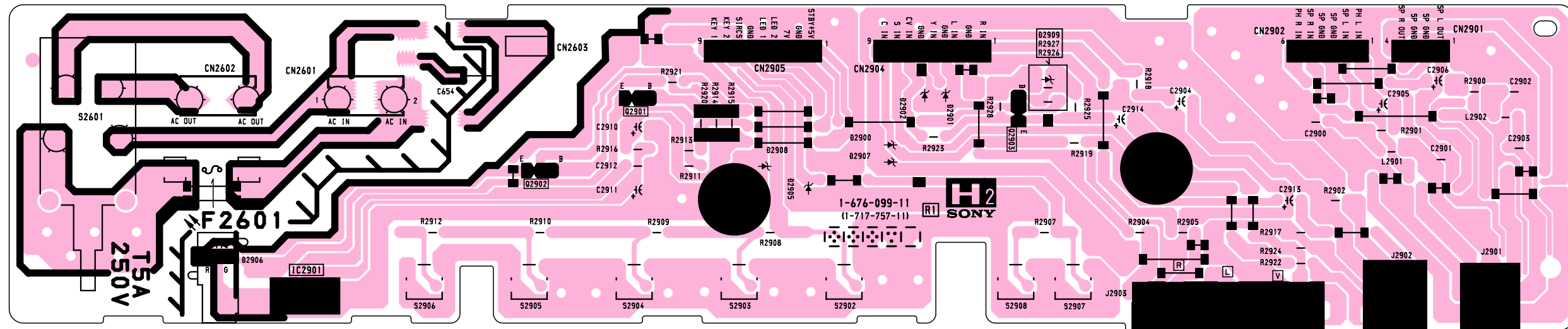
- Connectors:** CN104, CN107, CN103, CN102, CN303, CN101, CN204, CN203, CN205, CN308, CN507, CN501, CN502, CN505, CN509, CN506, CN504, CN609, CN603, CN604, CN607, CN601, CN602, CN605, CN608, CN606, CN600, CN201, CN202, CN204, CN205, CN301, CN302, CN303, CN304, CN305, CN306, CN307, CN308, CN309, CN310, CN311, CN312, CN313, CN314, CN315, CN316, CN317, CN318, CN319, CN320, CN321, CN322, CN323, CN324, CN325, CN326, CN327, CN328, CN329, CN330, CN331, CN332, CN333, CN334, CN335, CN336, CN337, CN338, CN339, CN340, CN341, CN342, CN343, CN344, CN345, CN346, CN347, CN348, CN349, CN350, CN351, CN352, CN353, CN354, CN355, CN356, CN357, CN358, CN359, CN360, CN361, CN362, CN363, CN364, CN365, CN366, CN367, CN368, CN369, CN370, CN371, CN372, CN373, CN374, CN375, CN376, CN377, CN378, CN379, CN380, CN381, CN382, CN383, CN384, CN385, CN386, CN387, CN388, CN389, CN390, CN391, CN392, CN393, CN394, CN395, CN396, CN397, CN398, CN399, CN400.
- Resistors:** R400, R401, R402, R403, R404, R405, R406, R407, R408, R409, R410, R411, R412, R413, R414, R415, R416, R417, R418, R419, R420, R421, R422, R423, R424, R425, R426, R427, R428, R429, R430, R431, R432, R433, R434, R435, R436, R437, R438, R439, R440, R441, R442, R443, R444, R445, R446, R447, R448, R449, R450, R451, R452, R453, R454, R455, R456, R457, R458, R459, R460, R461, R462, R463, R464, R465, R466, R467, R468, R469, R470, R471, R472, R473, R474, R475, R476, R477, R478, R479, R480, R481, R482, R483, R484, R485, R486, R487, R488, R489, R490, R491, R492, R493, R494, R495, R496, R497, R498, R499, R500.
- Capacitors:** C100, C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C125, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C137, C138, C139, C140, C141, C142, C143, C144, C145, C146, C147, C148, C149, C150, C151, C152, C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C163, C164, C165, C166, C167, C168, C169, C170, C171, C172, C173, C174, C175, C176, C177, C178, C179, C180, C181, C182, C183, C184, C185, C186, C187, C188, C189, C190, C191, C192, C193, C194, C195, C196, C197, C198, C199, C200.
- Other Components:** T504, T505, T506, T507, T508, T509, T510, T511, T512, T513, T514, T515, T516, T517, T518, T519, T520, T521, T522, T523, T524, T525, T526, T527, T528, T529, T530, T531, T532, T533, T534, T535, T536, T537, T538, T539, T540, T541, T542, T543, T544, T545, T546, T547, T548, T549, T550, T551, T552, T553, T554, T555, T556, T557, T558, T559, T560, T561, T562, T563, T564, T565, T566, T567, T568, T569, T570, T571, T572, T573, T574, T575, T576, T577, T578, T579, T580, T581, T582, T583, T584, T585, T586, T587, T588, T589, T590, T591, T592, T593, T594, T595, T596, T597, T598, T599, T600.

The schematic also includes a Sony logo and the phone number 1-679-571-14. The layout is highly detailed, showing the physical arrangement of components on the PCB, including mounting holes, pads, and traces.

IC		Q606	F-11	D525	F-5
		Q607	H-13		
IC001	B-10	Q608	D-12	D527	F-3
IC002	D-10	Q901	H-13	D528	F-3
IC003	A-9	Q902	H-13	D529	F-5
IC100	B-4	DIODE		D531	E-6
IC201	B-12			D532	E-5
IC203	B-4			D533	D-2
IC301	B-6	D001	B-8	D534	E-6
IC302	D-7	D002	B-9	D600	G-13
IC502	E-6	D003	C-9	D601	I-8
IC503	J-5	D004	D-8	D602	G-13
IC601	J-8	D005	B-8	D603	F-11
IC602	H-7	D006	A-3	D604	J-7
IC603	E-8	D007	B-8	D605	G-10
IC604	D-10	D008	B-8	D606	E-11
IC901	I-13	D009	B-8	D607	F-10
TRANSISTOR		D010	D-10	D608	F-11
		D011	C-8	D609	H-8
		D100	B-4	D610	J-8
		D203	C-11	D611	I-7
Q001	B-8	D300	A-9	D612	F-8
Q002	B-8	D301	B-9	D613	I-7
Q005	B-9	D303	B-5	D615	E-7
Q101	B-4	D304	B-5	D616	E-9
Q201	A-11	D305	B-5	D617	F-8
Q202	A-11	D306	C-5	D618	F-9
Q203	C-11	D307	C-5	D620	D-8
Q204	C-12	D308	B-5	D621	F-9
Q205	A-12	D309	D-5	D622	F-8
Q206	A-11	D311	C-5	D623	F-12
Q207	A-12	D312	C-5	D624	F-12
Q301	A-8	D313	A-8	D625	D-12
Q302	C-6	D314	A-9	D627	F-8
Q303	D-6	D315	B-7	D628	G-5
Q304	B-6	D317	B-9	D629	F-9
Q305	C-6	D319	B-6	D630	E-10
Q306	D-6	D320	C-5	D631	G-12
Q307	D-6	D321	B-6	D632	F-12
Q308	C-5	D322	B-6	D633	E-12
Q309	D-7	D401	C-2	D634	F-11
Q310	D-8	D402	D-2	D635	F-12
Q311	D-9	D403	C-2	D636	D-12
Q312	B-7	D404	C-2	D637	F-11
Q313	B-8	D405	B-1	D638	E-11
Q314	D-8	D406	B-1	D639	D-12
Q315	B-4	D407	C-2	D901	C-13
Q316	B-5	D408	B-1	D902	C-13
Q317	B-5	D409	A-1	D903	C-13
Q401	D-2	D504	D-5	D904	D-13
Q402	D-1	D505	H-6	D905	F-13
Q403	C-3	D506	F-6	D906	H-13
Q404	D-2	D507	F-6		
Q501	D-6	D508	I-7		
Q502	E-7	D509	F-6		
Q503	F-6	D510	F-5		
Q505	D-6	D511	F-5		
Q506	E-2	D512	G-5		
Q507	H-6	D513	I-5		
Q509	F-6	D517	F-2		
Q511	F-1	D518	F-2		
Q600	D-12	D519	F-2		
Q601	F-11	D520	E-5		
Q602	I-7	D521	I-4		
Q603	I-7	D522	J-4		
Q604	H-6	D523	H-4		
Q605	E-12				

H2 [CONTROL PANEL]

– H2 Board –



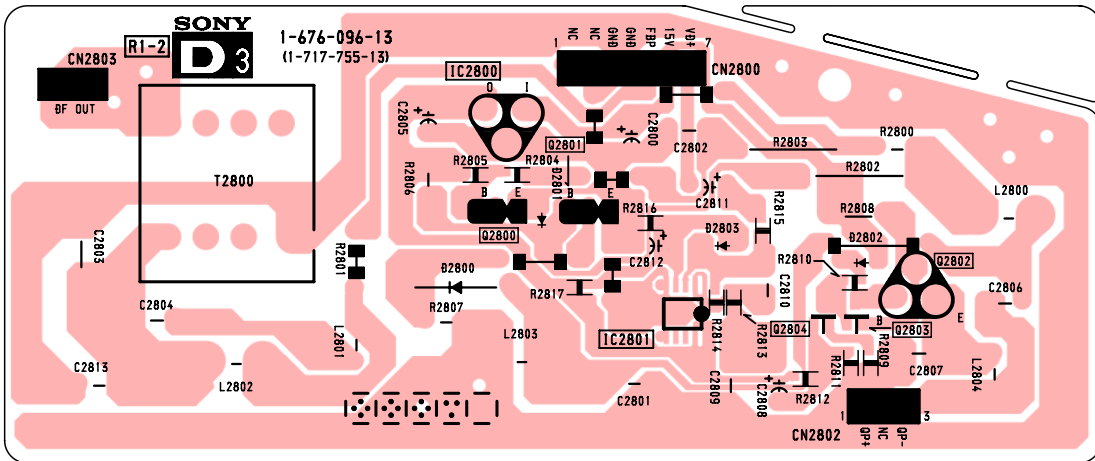
D3

[DQP, DYNAMIC FOCUS]

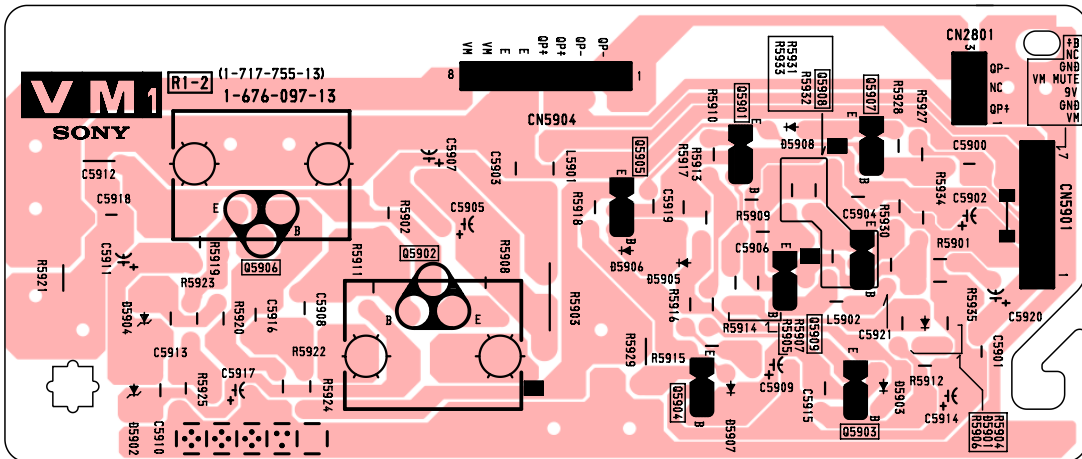
VM1

[VELOCITY MODULATION]

– D3 Board –

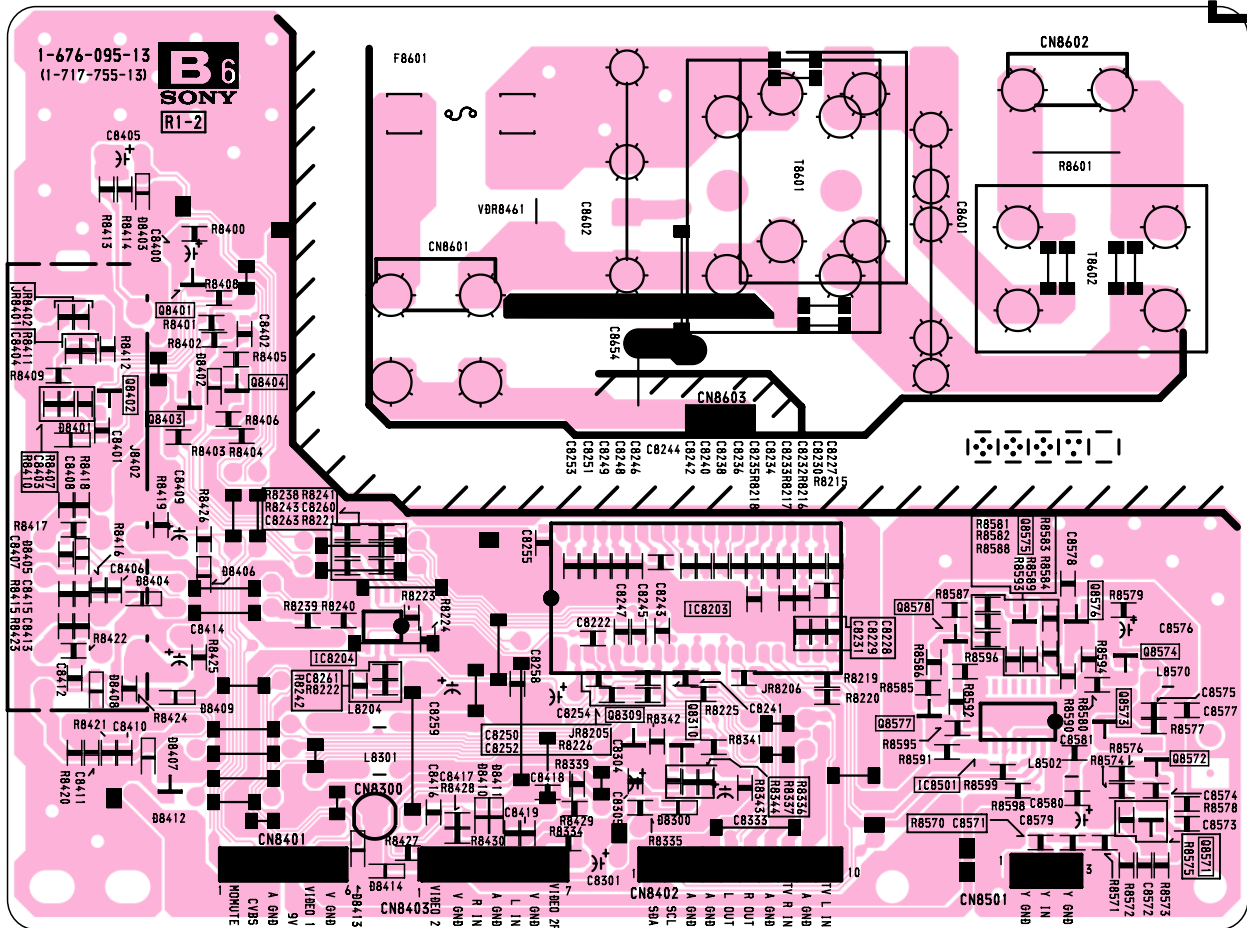


– VM1 Board –



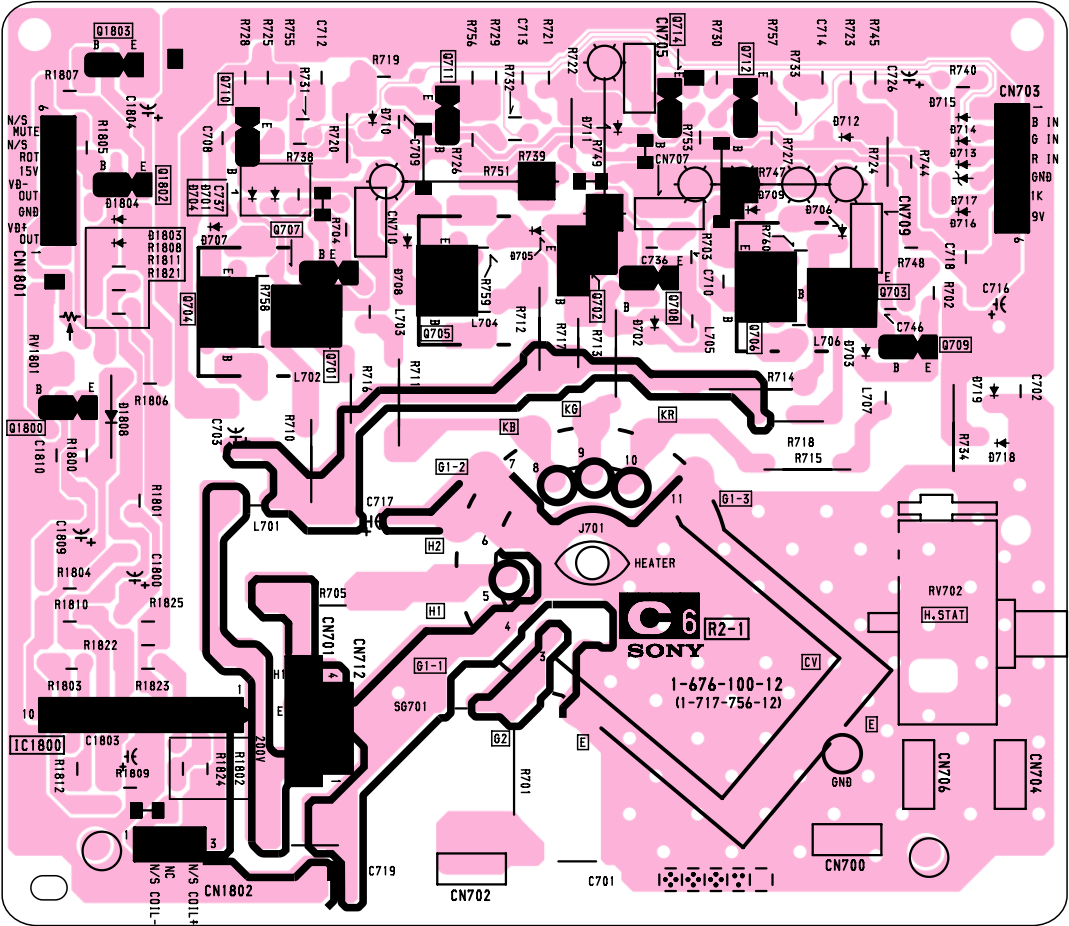
B6

– B6 Board –



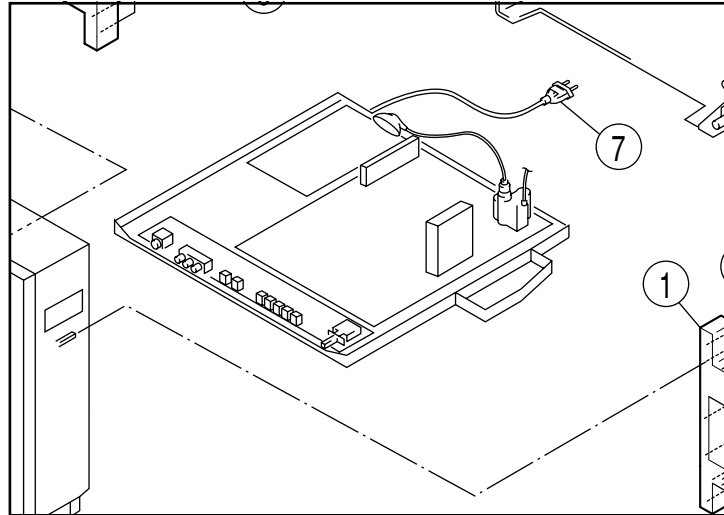
C6 [VIDEO AMP, ROTATION CIRCUIT,
RGB OUT]

– C6 Board –



SECTION 6 EXPLODED VIEWS

6-1. SPEAKER BRACKET (see page 80)



<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
7	1-575-023-31	CORD, POWER (WITH CONNECTOR)	

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

SECTION 7
ELECTRICAL PARTS LIST

A

NOTE:

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

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

- 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 : μ F

COILS

- MMH : mH, UH : μ H

REF NO.	PART NO.	DESCRIPTION	REMARK	REF NO.	PART NO.	DESCRIPTION	REMARK
	A-1299-561-A	A BOARD COMPLETE		C211	1-126-941-11	ELECT	470UF 20.00% 25V
	4-044-778-11	COVER, CAP TYPE CONDENSER		C212	1-126-933-11	ELECT	100UF 20.00% 16V
	4-382-854-11	SCREW (M3X10), P, SW (+)		C213	1-126-933-11	ELECT	100UF 20.00% 16V
	4-382-854-21	SCREW (M3X14), P, SW (+)		C214	1-126-942-61	ELECT	1000UF 20.00% 25V
	*****			C215	1-126-942-61	ELECT	1000UF 20.00% 25V
	<CAPACITOR>			C216	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
C004	1-163-001-11	CERAMIC CHIP	220PF 10.00% 50V	C217	1-126-964-11	ELECT	10UF 20.00% 50V
C005	1-163-001-11	CERAMIC CHIP	220PF 10.00% 50V	C218	1-136-167-00	FILM	0.15UF 5.00% 50V
C006	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	C219	1-136-167-00	FILM	0.15UF 5.00% 50V
C007	1-104-660-91	ELECT	47UF 20.00% 16V	C220	1-126-942-61	ELECT	1000UF 20.00% 25V
C013	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	C221	1-126-964-11	ELECT	10UF 20.00% 50V
C014	1-104-664-11	ELECT	47UF 20.00% 25V	C223	1-126-965-91	ELECT	22UF 20.00% 50V
C015	1-163-009-91	CERAMIC CHIP	0.001UF 10.00% 50V	C224	1-163-133-00	CERAMIC CHIP	470PF 5.00% 50V
C016	1-163-243-11	CERAMIC CHIP	47PF 5.00% 50V	C225	1-109-982-11	CERAMIC CHIP	1UF 10.00% 10V
C017	1-163-113-00	CERAMIC CHIP	68PF 5.00% 50V	C226	1-109-982-11	CERAMIC CHIP	1UF 10.00% 10V
C019	1-104-664-11	ELECT	47UF 20.00% 25V	C264	1-164-505-11	CERAMIC CHIP	2.2UF 16V
C022	1-163-227-11	CERAMIC CHIP	10PF 0.50PF 50V	C265	1-164-505-11	CERAMIC CHIP	2.2UF 16V
C023	1-163-227-11	CERAMIC CHIP	10PF 0.50PF 50V	C301	1-126-941-11	ELECT	470UF 20.00% 25V
C024	1-163-227-11	CERAMIC CHIP	10PF 0.50PF 50V	C302	1-163-005-91	CERAMIC CHIP	470PF 10.00% 50V
C026	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	C303	1-126-964-11	ELECT	10UF 20.00% 50V
C027	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	C304	1-126-967-11	ELECT	47UF 20.00% 50V
C028	1-163-037-11	CERAMIC CHIP	0.022UF 10.00% 50V	C305	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C030	1-126-965-91	ELECT	22UF 20.00% 50V	C306	1-163-233-91	CERAMIC CHIP	18PF 5.00% 50V
C031	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	C307	1-163-233-91	CERAMIC CHIP	18PF 5.00% 50V
C032	1-107-823-11	CERAMIC CHIP	0.47UF 10.00% 16V	C308	1-163-259-91	CERAMIC CHIP	220PF 5.00% 50V
C041	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V	C309	1-137-378-11	MYLAR	0.22UF 5.00% 50V
C042	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V	C310	1-126-963-11	ELECT	4.7UF 20.00% 50V
C044	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V	C311	1-126-964-11	ELECT	10UF 20.00% 50V
C047	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V	C316	1-126-934-11	ELECT	220UF 20.00% 16V
C055	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V	C317	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C103	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	C318	1-163-031-91	CERAMIC CHIP	0.01UF 50V
C104	1-104-665-11	ELECT	100UF 20.00% 10V	C319	1-163-031-91	CERAMIC CHIP	0.01UF 50V
C107	1-163-005-91	CERAMIC CHIP	470PF 10.00% 50V	C320	1-163-031-91	CERAMIC CHIP	0.01UF 50V
C108	1-104-660-91	ELECT	47UF 20.00% 16V	C322	1-163-005-91	CERAMIC CHIP	470PF 10.00% 50V
C109	1-163-005-91	CERAMIC CHIP	470PF 10.00% 50V	C324	1-163-017-00	CERAMIC CHIP	0.0047UF 10.00% 50V
C110	1-163-005-91	CERAMIC CHIP	470PF 10.00% 50V	C325	1-126-960-11	ELECT	1UF 20.00% 50V
C111	1-163-005-91	CERAMIC CHIP	470PF 10.00% 50V	C327	1-126-965-91	ELECT	22UF 20.00% 50V
C112	1-104-660-91	ELECT	47UF 20.00% 16V	C328	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C113	1-104-664-11	ELECT	47UF 20.00% 25V	C329	1-126-965-91	ELECT	22UF 20.00% 50V
C114	1-126-967-11	ELECT	47UF 20.00% 50V	C330	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C202	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	C331	1-126-963-11	ELECT	4.7UF 20.00% 50V
C203	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	C332	1-126-963-11	ELECT	4.7UF 20.00% 50V
C204	1-136-161-00	FILM	0.047UF 5.00% 50V	C335	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C205	1-164-182-11	CERAMIC CHIP	0.0033UF 10.00% 50V	C336	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C206	1-164-182-11	CERAMIC CHIP	0.0033UF 10.00% 50V	C337	1-126-961-11	ELECT	2.2UF 20.00% 50V
C207	1-136-161-00	FILM	0.047UF 5.00% 50V	C338	1-163-017-00	CERAMIC CHIP	0.0047UF 10.00% 50V
C208	1-126-965-91	ELECT	22UF 20.00% 50V	C341	1-115-340-11	CERAMIC CHIP	0.22UF 10.00% 25V
C209	1-126-965-91	ELECT	22UF 20.00% 50V	C342	1-163-259-91	CERAMIC CHIP	220PF 5.00% 50V
C210	1-126-933-11	ELECT	100UF 20.00% 16V	C347	1-126-933-11	ELECT	100UF 20.00% 16V
				C348	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
				C349	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
				C350	1-216-295-91	SHORT	0

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
C351	1-126-964-11	ELECT	10UF 20.00% 50V
C352	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C353	1-126-960-11	ELECT	1UF 20.00% 50V
C356	1-126-960-11	ELECT	1UF 20.00% 50V
C357	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C502	1-163-145-00	CERAMIC CHIP	0.0015UF 5.00% 50V
C503	1-126-964-11	ELECT	10UF 20.00% 50V
C506	1-107-638-11	ELECT	33UF 20.00% 160V
C507	1-161-830-00	CERAMIC	0.0047UF 500V
C510	1-102-112-00	CERAMIC	330PF 10.00% 50V
C512	1-163-989-11	CERAMIC CHIP	0.033UF 10.00% 25V
C513	1-163-263-11	CERAMIC CHIP	330PF 5.00% 50V
C514	1-106-383-00	MYLAR	0.047UF 10.00% 200V
C517	1-164-182-11	CERAMIC CHIP	0.0033UF 10.00% 50V
C518	1-104-665-11	ELECT	100UF 20.00% 10V
C519	1-102-212-00	CERAMIC	820PF 10.00% 500V
C521	1-126-934-11	ELECT	220UF 20.00% 16V
C522	1-126-933-11	ELECT	100UF 20.00% 16V
C523	1-102-002-00	CERAMIC	680PF 10.00% 500V
C524	1-126-967-11	ELECT	47UF 20.00% 50V
C526	1-130-495-00	MYLAR	0.1UF 5.00% 50V
C527	1-102-820-00	CERAMIC	330PF 5.00% 50V
C528	1-162-116-00	CERAMIC	680PF 10.00% 2KV
C530	1-137-372-11	MYLAR	0.022UF 5.00% 50V
C531	1-107-903-11	ELECT	2.2UF 20.00% 50V
C532	1-126-941-11	ELECT	470UF 20.00% 25V
C533	1-126-941-11	ELECT	470UF 20.00% 25V
C534	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C536	1-136-165-00	FILM	0.1UF 5.00% 50V
C537	1-126-969-11	ELECT	220UF 20.00% 50V
C538	1-127-717-11	FILM	19000PF 3% 1.2KV
C539	1-129-723-00	FILM	0.056UF 5.00% 630V
C540	1-136-171-00	FILM	0.33UF 5.00% 50V
C546	1-165-319-11	CERAMIC CHIP	0.1UF 50V
C549	1-163-017-00	CERAMIC CHIP	0.0047UF 10.00% 50V
C550	1-106-220-00	MYLAR	0.1UF 10.00% 100V
C551	1-126-960-11	ELECT	1UF 20.00% 50V
C552	1-162-116-00	CERAMIC	680PF 10.00% 2KV
C553	1-162-116-00	CERAMIC	680PF 10.00% 2KV
C554	1-137-417-11	MYLAR	0.0047UF 10.00% 200V
C556	1-126-941-11	ELECT	470UF 20.00% 25V
C557	1-126-941-11	ELECT	470UF 20.00% 25V
C558	1-123-024-21	ELECT	33UF 160V
C560	1-102-228-00	CERAMIC	470PF 10.00% 500V
C561	1-129-898-00	FILM	0.0022UF 5.00% 630V
C562	1-102-228-00	CERAMIC	470PF 10.00% 500V
C564	1-163-038-91	CERAMIC CHIP	0.1UF 25V
C565	1-107-655-11	ELECT	47UF 20.00% 250V
C566	1-102-244-00	CERAMIC	220PF 10.00% 500V
C567	1-115-520-11	FILM	0.68UF 5.00% 250V
C568	1-102-228-00	CERAMIC	470PF 10.00% 500V
C570	1-115-522-11	FILM	1UF 5.00% 250V
C572	1-117-661-11	FILM	0.15UF 5.00% 250V
C573	1-106-387-00	MYLAR	0.068UF 10.00% 200V
C574	1-104-709-11	ELECT	4.7UF 160V
C576	1-130-495-00	MYLAR	0.1UF 5.00% 50V
C577	1-106-395-00	MYLAR	0.15UF 10.00% 200V
C582	1-164-004-11	CERAMIC CHIP	0.1UF 25V
C584	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V
C586	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V

REF NO.	PART NO.	DESCRIPTION	REMARK
C600	Δ 1-104-705-11	MYLAR	0.1UF 20.00% 250V
C602	Δ 1-104-705-11	MYLAR	0.1UF 20.00% 250V
C603	1-104-664-11	ELECT	47UF 20.00% 25V
C604	1-163-009-91	CERAMIC CHIP	0.001UF 10.00% 50V
C605	Δ 1-119-886-51	CERAMIC	470PF 10.00% 250V
C606	Δ 1-119-886-51	CERAMIC	470PF 10.00% 250V
C607	1-161-830-00	CERAMIC	0.0047UF 99% 500V
C608	1-161-830-00	CERAMIC	0.0047UF 99% 500V
C609	1-126-968-11	ELECT	100UF 20.00% 50V
C610	1-126-964-11	ELECT	10UF 20.00% 50V
C611	1-161-830-00	CERAMIC	0.0047UF 99% 500V
C612	1-161-830-00	CERAMIC	0.0047UF 99% 500V
C613	1-125-906-11	ELECT	560UF 20.00% 450V
C614	1-126-964-11	ELECT	10UF 20.00% 50V
C615	Δ 1-119-886-51	CERAMIC	470PF 10.00% 250V
C616	1-130-202-00	FILM	0.022UF 5.00% 400V
C617	1-107-792-11	CERAMIC	100PF 5.00% 1KV
C618	1-125-893-11	FILM	680PF 3.00% 1.5KV
C619	Δ 1-119-886-51	CERAMIC	470PF 10.00% 250V
C620	1-163-133-00	CERAMIC CHIP	470PF 5.00% 50V
C621	1-102-114-00	CERAMIC	470PF 10.00% 50V
C622	1-102-119-00	CERAMIC	0.0015UF 10.00% 50V
C623	1-104-665-11	ELECT	100UF 20.00% 25V
C624	1-125-772-11	CERAMIC	1500PF 10.00% 2KV
C625	1-102-002-00	CERAMIC	680PF 10.00% 500V
C626	1-102-002-00	CERAMIC	680PF 10.00% 500V
C628	1-126-942-61	ELECT	1000UF 20.00% 25V
C629	1-126-964-11	ELECT	10UF 20.00% 50V
C630	1-125-494-11	ELECT(BLOCK)	560UF 20.00% 160V
C632	1-128-339-11	ELECT	2200UF 20.00% 16V
C633	1-104-999-11	MYLAR	0.1UF 10.00% 200V
C634	1-126-933-11	ELECT	100UF 20.00% 16V
C635	1-104-665-11	ELECT	100UF 20.00% 10V
C636	1-104-760-11	CERAMIC CHIP	0.047UF 10.00% 50V
C641	1-102-002-00	CERAMIC	680PF 10.00% 500V
C642	1-126-943-11	ELECT	2200UF 20.00% 25V
C643	1-104-665-11	ELECT	100UF 20.00% 10V
C644	1-104-331-11	CERAMIC	0.0022UF 10.00% 1KV
C645	1-137-605-11	MYLAR	0.01UF 10.00% 250V
C646	1-107-679-91	ELECT	10UF 20.00% 450V
C647	1-163-275-11	CERAMIC CHIP	0.001UF 5.00% 50V
C649	1-126-940-11	ELECT	330UF 20.00% 25V
C650	1-163-275-11	CERAMIC CHIP	0.001UF 5.00% 50V
C651	1-163-133-00	CERAMIC CHIP	470PF 5.00% 50V
C652	1-126-965-91	ELECT	22UF 20.00% 50V
C653	1-104-664-11	ELECT	47UF 20.00% 25V
C655	Δ 1-119-886-51	CERAMIC	470PF 10.00% 250V
C657	1-101-821-00	CERAMIC	0.0022UF 500V
C901	1-136-153-00	FILM	0.01UF 5.00% 50V
C902	1-136-153-00	FILM	0.01UF 5.00% 50V
C912	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C913	1-104-665-11	ELECT	100UF 20.00% 10V
<CONNECTOR>			
CN101	* 1-764-333-11	PLUG, CONNECTOR	10P
CN102	* 1-564-507-11	PLUG, CONNECTOR	4P
CN104	1-695-915-11	TAB (CONTACT)	
CN106	* 1-564-506-11	PLUG, CONNECTOR	3P
CN202	* 1-508-847-00	PIN, CONNECTOR	4P

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REF NO.	PART NO.	DESCRIPTION	REMARK
CN205	* 1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P	
CN305	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN306	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN501	* 1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P	
CN502	* 1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P	
CN503	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN504	1-695-915-11	TAB (CONTACT)	
CN505	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN507	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN601	1-580-843-11	PIN, CONNECTOR (POWER)	
CN603	* 1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P	
CN604	* 1-691-134-11	PIN, CONNECTOR (PC BOARD) 2P	
CN901	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN904	* 1-564-512-11	PLUG, CONNECTOR 9P	
<DIODE>			
D001	8-719-988-61	ISS355TE-17	
D005	8-719-988-61	ISS355TE-17	
D006	8-719-988-61	ISS355TE-17	
D100	8-719-404-50	MA111-TX	
D203	8-719-914-42	DA204K	
D300	1-216-295-91	SHORT	0
D301	8-719-988-61	ISS355TE-17	
D306	8-719-988-61	ISS355TE-17	
D307	8-719-988-61	ISS355TE-17	
D308	8-719-988-61	ISS355TE-17	
D309	8-719-069-54	UDZSTE-175.1B	
D311	8-719-988-61	ISS355TE-17	
D312	8-719-988-61	ISS355TE-17	
D313	8-719-988-61	ISS355TE-17	
D314	8-719-988-61	ISS355TE-17	
D315	8-719-988-61	ISS355TE-17	
D316	8-719-037-06	RD7.5SB1-T1	
D320	8-719-069-60	UDZSTE-179.1B	
D321	8-719-069-60	UDZSTE-179.1B	
D504	8-719-302-43	EL1Z	
D505	8-719-988-61	ISS355TE-17	
D506	8-719-911-19	ISS119-25	
D507	8-719-988-61	ISS355TE-17	
D508	8-719-988-61	ISS355TE-17	
D509	1-216-073-91	RES-CHIP	10K 5% 1/10W
D510	8-719-988-61	ISS355TE-17	
D511	8-719-988-61	ISS355TE-17	
D512	8-719-988-61	ISS355TE-17	
D513	8-719-908-03	GP08D	
D517	8-719-945-80	ERC06-15S	
D518	8-719-074-35	RU4AM-T4	
D519	8-719-945-80	ERC06-15S	
D521	8-719-302-43	EL1Z	
D522	8-719-028-45	D2L20U	
D523	8-719-302-43	EL1Z	
D527	8-719-908-03	GP08D	
D528	8-719-908-03	GP08D	
D532	8-719-988-61	ISS355TE-17	
D534	8-719-988-61	ISS355TE-17	
D600	8-719-911-19	ISS119-25	
D602	8-719-911-19	ISS119-25	
D603	8-719-150-92	RD33EB3T	
D604	8-719-028-72	RGP02-17EL-6433	
D605	8-719-510-22	D3SB60	
D606	8-719-108-18	5P-6M	

REF NO.	PART NO.	DESCRIPTION	REMARK
D607	8-719-404-50	MA111-TX	
D608	8-719-110-53	RD20ES-B2	
D609	8-719-311-31	RU-1P	
D610	8-719-210-21	11EQS04	
D611	8-719-075-73	10ELS2N-TB5	
D613	8-719-075-73	10ELS2N-TB5	
D614	8-719-075-73	10ELS2N-TB5	
D615	8-719-074-35	RU4AM-T4	
D616	8-719-067-18	RN4Z	
D617	8-719-073-84	31DQ06-FC5	
D620	8-719-110-72	RD30ESB2	
D623	8-719-978-65	DTZ-TT11-15B	
D624	8-719-404-50	MA111-TX	
D625	8-719-977-28	DTZ10B	
D627	8-719-073-84	31DQ06-FC5	
D628	8-719-911-19	1SS119-25	
D631	8-719-068-00	ERC04-06SE	
D632	8-719-068-00	ERC04-06SE	
D633	8-719-948-45	ERA22-08	
D634	8-719-404-50	MA111-TX	
D635	8-719-404-50	MA111-TX	
D636	8-719-510-02	D1NS4	
D637	8-719-109-96	RD6.8ES-B1	
D638	8-719-200-82	11ES2	
<CONNECTOR>			
DY1	* 1-580-798-11	CONNECTOR PIN (DY) 6P	
<FERRITE BEAD>			
FB300	1-410-397-21	FERRITE	1.1UH
FB501	1-410-397-21	FERRITE	1.1UH
FB502	1-410-397-21	FERRITE	1.1UH
FB600	1-410-397-21	FERRITE	1.1UH
FB601	1-410-397-21	FERRITE	1.1UH
FB602	1-410-397-21	FERRITE	1.1UH
FB603	1-410-397-21	FERRITE	1.1UH
FB604	1-412-911-31	FERRITE	0UH
FB605	1-406-656-21	INDUCTOR	3.3UH
FB606	1-412-911-31	FERRITE	0UH
FB608	1-412-911-31	FERRITE	0UH
FB611	1-410-397-21	FERRITE	1.1UH
FB612	1-410-397-21	FERRITE	1.1UH
FB613	1-410-397-21	FERRITE	1.1UH
FB615	1-412-911-31	FERRITE	0UH
<IC>			
IC001	8-752-917-84	CXP86449-632S	
IC002	8-759-371-21	MM1319AFBE	
IC003	8-759-672-78	M24C08-BN6(A)	
IC100	8-759-042-02	S-80743AL-A7-S	
IC201	8-759-336-30	TA8223K	
IC301	8-752-095-72	CXA2159S	
IC302	8-759-672-27	TDA9183T	
IC502	8-759-700-07	NJM2903M	
IC503	8-759-980-58	TDA8172	
IC601	8-749-014-48	STR-F6656	
IC602	8-749-920-61	SE-135N	
IC603	8-759-347-18	KIA7809PI	
IC604	8-759-646-52	KIA7805API	

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REF NO.	PART NO.	DESCRIPTION	REMARK
<CHIP CONDUCTOR>			
JR001	1-216-295-91	SHORT	0
JR002	1-216-295-91	SHORT	0
JR003	1-216-295-91	SHORT	0
JR004	1-216-295-91	SHORT	0
JR006	1-216-295-91	SHORT	0
JR007	1-216-295-91	SHORT	0
JR008	1-216-295-91	SHORT	0
JR010	1-216-295-91	SHORT	0
JR012	1-216-295-91	SHORT	0
JR014	1-216-295-91	SHORT	0
JR015	1-216-295-91	SHORT	0
JR016	1-216-295-91	SHORT	0
JR019	1-216-295-91	SHORT	0
JR020	1-216-295-91	SHORT	0
JR022	1-216-295-91	SHORT	0
JR023	1-216-295-91	SHORT	0
JR024	1-216-295-91	SHORT	0
JR025	1-216-295-91	SHORT	0
JR028	1-216-295-91	SHORT	0
JR102	1-216-295-91	SHORT	0
JR107	1-216-295-91	SHORT	0
JR202	1-216-295-91	SHORT	0
JR204	1-216-295-91	SHORT	0
JR214	1-216-295-91	SHORT	0
JR300	1-216-295-91	SHORT	0
JR304	1-216-295-91	SHORT	0
JR308	1-216-295-91	SHORT	0
JR311	1-216-295-91	SHORT	0
JR312	1-216-295-91	SHORT	0
JR400	1-216-295-91	SHORT	0
JR500	1-216-295-91	SHORT	0
JR501	1-216-295-91	SHORT	0
JR502	1-216-295-91	SHORT	0
JR503	1-216-295-91	SHORT	0
JR505	1-216-295-91	SHORT	0
JR600	1-216-295-91	SHORT	0
<COIL>			
L002	1-414-856-11	INDUCTOR	10UH
L003	1-414-180-11	INDUCTOR	3.3UH
L005	1-414-233-22	FERRITE	0UH
L101	1-414-856-11	INDUCTOR	10UH
L102	1-414-856-11	INDUCTOR	10UH
L103	1-414-856-11	INDUCTOR	10UH
L104	1-414-856-11	INDUCTOR	10UH
L105	1-414-856-11	INDUCTOR	10UH
L301	1-414-189-31	INDUCTOR	100UH
L302	1-414-185-41	INDUCTOR	22UH
L303	1-414-189-31	INDUCTOR	100UH
L304	1-414-189-31	INDUCTOR	100UH
L501	1-412-525-31	INDUCTOR	10UH
L502	1-422-613-11	COIL, AIR CORE	
L503	1-412-525-31	INDUCTOR	10UH
L504	1-412-525-31	INDUCTOR	10UH
L507	1-459-111-00	INDUCTOR	10MH
L511	1-406-977-21	INDUCTOR	100UH
L513	1-412-551-31	INDUCTOR	1.5MH
L515	1-459-104-00	COIL, WITH CORE	

REF NO.	PART NO.	DESCRIPTION	REMARK
L518	1-414-187-11	INDUCTOR	47UH
L601	1-412-527-11	INDUCTOR	15UH
L901	1-414-856-11	INDUCTOR	10UH
L902	1-414-856-11	INDUCTOR	10UH
L905	1-414-856-11	INDUCTOR	10UH
<PHOTO COUPLER>			
PH600	$\triangle$ 8-749-924-35	ON3171-R	
<IC LINK>			
PS200	1-532-675-21	LINK, IC 1.5A/150V	
<TRANSISTOR>			
Q002	8-729-120-28	2SC1623-L5L6	
Q101	8-729-120-28	2SC1623-L5L6	
Q201	8-729-424-67	UN2216	
Q202	8-729-424-67	UN2216	
Q205	8-729-421-19	UN2213	
Q206	8-729-421-19	UN2213	
Q207	8-729-421-19	UN2213	
Q301	8-729-026-49	2SA1037AK-T146-R	
Q302	8-729-120-28	2SC1623-L5L6	
Q303	8-729-026-49	2SA1037AK-T146-R	
Q305	8-729-026-49	2SA1037AK-T146-R	
Q306	8-729-120-28	2SC1623-L5L6	
Q307	8-729-120-28	2SC1623-L5L6	
Q308	8-729-026-49	2SA1037AK-T146-R	
Q312	8-729-216-22	2SA1162-G	
Q313	8-729-120-28	2SC1623-L5L6	
Q314	8-729-026-49	2SA1037AK-T146-R	
Q315	8-729-421-19	UN2213	
Q501	8-729-026-49	2SA1037AK-T146-R	
Q502	8-729-026-49	2SA1037AK-T146-R	
Q503	8-729-120-28	2SC1623-L5L6	
Q505	8-729-931-45	IRF614	
Q506	8-729-119-80	2SC2688-LK	
Q507	8-729-026-49	2SA1037AK-T146-R	
Q509	8-729-120-28	2SC1623-L5L6	
Q511	8-729-048-07	2SD2578-CA	
Q600	8-729-119-78	2SC2785-HFE	
Q601	8-729-023-22	2SD2114K	
Q602	8-729-120-28	2SC1623-L5L6	
Q603	8-729-424-08	UN2111	
Q604	8-729-200-17	2SA1091-O	
Q605	8-729-044-30	2SK2845-LB102	
Q606	8-729-120-28	2SC1623-L5L6	
Q607	8-729-823-22	2SC3576	
Q608	8-729-120-28	2SC1623-L5L6	
<RESISTOR>			
R001	1-414-233-22	FERRITE	0UH
R002	1-216-025-11	RES-CHIP	100 5% 1/10W
R003	1-216-073-91	RES-CHIP	10K 5% 1/10W
R004	1-216-025-11	RES-CHIP	100 5% 1/10W
R005	1-216-025-11	RES-CHIP	100 5% 1/10W
R008	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R010	1-216-065-91	RES-CHIP	4.7K 5% 1/10W

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REF NO.	PART NO.	DESCRIPTION	REMARK	REF NO.	PART NO.	DESCRIPTION	REMARK
R011	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R212	1-216-031-00	RES-CHIP	180 5% 1/10W
R012	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R225	1-216-033-00	RES-CHIP	220 5% 1/10W
R013	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R226	1-216-033-00	RES-CHIP	220 5% 1/10W
R014	1-216-025-11	RES-CHIP	100 5% 1/10W	R227	1-216-033-00	RES-CHIP	220 5% 1/10W
R015	1-216-025-11	RES-CHIP	100 5% 1/10W	R228	1-249-389-11	CARBON	4.7 5% 1/4W
R017	1-216-049-11	RES-CHIP	1K 5% 1/10W	R229	1-216-073-91	RES-CHIP	10K 5% 1/10W
R018	1-216-033-00	RES-CHIP	220 5% 1/10W	R230	1-216-073-91	RES-CHIP	10K 5% 1/10W
R019	1-216-073-91	RES-CHIP	10K 5% 1/10W	R231	1-216-295-91	SHORT	0
R020	1-216-045-00	RES-CHIP	680 5% 1/10W	R234	1-249-389-11	CARBON	4.7 5% 1/4W
R021	1-216-073-91	RES-CHIP	10K 5% 1/10W	R237	1-216-308-00	RES-CHIP	4.7 5% 1/10W
R022	1-216-025-11	RES-CHIP	100 5% 1/10W	R301	1-216-073-91	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	1-216-049-11	RES-CHIP	1K 5% 1/10W
R026	1-216-063-91	RES-CHIP	3.9K 5% 1/10W	R304	1-216-073-91	RES-CHIP	10K 5% 1/10W
R027	1-216-073-91	RES-CHIP	10K 5% 1/10W	R305	1-216-051-00	RES-CHIP	1.2K 5% 1/10W
R028	1-216-073-91	RES-CHIP	10K 5% 1/10W	R306	1-216-085-91	RES-CHIP	33K 5% 1/10W
R029	1-216-049-11	RES-CHIP	1K 5% 1/10W	R308	1-216-025-11	RES-CHIP	100 5% 1/10W
R031	1-216-049-11	RES-CHIP	1K 5% 1/10W	R309	1-216-025-11	RES-CHIP	100 5% 1/10W
R034	1-216-049-11	RES-CHIP	1K 5% 1/10W	R310	1-216-025-11	RES-CHIP	100 5% 1/10W
R035	1-216-025-11	RES-CHIP	100 5% 1/10W	R311	1-216-041-00	RES-CHIP	470 5% 1/10W
R036	1-216-025-11	RES-CHIP	100 5% 1/10W	R312	1-216-039-00	RES-CHIP	390 5% 1/10W
R037	1-216-025-11	RES-CHIP	100 5% 1/10W	R313	1-216-037-00	RES-CHIP	330 5% 1/10W
R040	1-216-025-11	RES-CHIP	100 5% 1/10W	R314	1-216-083-00	RES-CHIP	27K 5% 1/10W
R041	1-216-025-11	RES-CHIP	100 5% 1/10W	R316	1-216-037-00	RES-CHIP	330 5% 1/10W
R042	1-216-295-91	SHORT	0	R317	1-216-091-00	RES-CHIP	56K 5% 1/10W
R043	1-216-049-11	RES-CHIP	1K 5% 1/10W	R318	1-216-039-00	RES-CHIP	390 5% 1/10W
R044	1-216-025-11	RES-CHIP	100 5% 1/10W	R319	1-216-025-11	RES-CHIP	100 5% 1/10W
R045	1-414-233-22	FERRITE	0UH	R320	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R046	1-216-049-11	RES-CHIP	1K 5% 1/10W	R321	1-216-073-91	RES-CHIP	10K 5% 1/10W
R047	1-414-233-22	FERRITE	0UH	R322	1-216-033-00	RES-CHIP	220 5% 1/10W
R048	1-216-073-91	RES-CHIP	10K 5% 1/10W	R325	1-216-041-00	RES-CHIP	470 5% 1/10W
R050	1-216-073-91	RES-CHIP	10K 5% 1/10W	R326	1-216-295-91	SHORT	0
R053	1-216-049-11	RES-CHIP	1K 5% 1/10W	R331	1-216-295-91	SHORT	0
R058	1-216-295-91	SHORT	0	R332	1-216-033-00	RES-CHIP	220 5% 1/10W
R059	1-216-295-91	SHORT	0	R333	1-216-083-00	RES-CHIP	27K 5% 1/10W
R060	1-216-295-91	SHORT	0	R334	1-216-133-91	RES-CHIP	3.3M 5% 1/10W
R061	1-216-033-00	RES-CHIP	220 5% 1/10W	R335	1-216-045-00	RES-CHIP	680 5% 1/10W
R062	1-216-041-00	RES-CHIP	470 5% 1/10W	R338	1-216-037-00	RES-CHIP	330 5% 1/10W
R063	1-216-041-00	RES-CHIP	470 5% 1/10W	R340	1-216-025-11	RES-CHIP	100 5% 1/10W
R064	1-216-041-00	RES-CHIP	470 5% 1/10W	R345	1-216-081-00	RES-CHIP	22K 5% 1/10W
R065	1-216-041-00	RES-CHIP	470 5% 1/10W	R348	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R066	1-216-049-11	RES-CHIP	1K 5% 1/10W	R349	1-216-073-91	RES-CHIP	10K 5% 1/10W
R067	1-216-049-11	RES-CHIP	1K 5% 1/10W	R350	1-216-061-91	RES-CHIP	3.3K 5% 1/10W
R068	1-216-041-00	RES-CHIP	470 5% 1/10W	R351	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R101	1-216-025-11	RES-CHIP	100 5% 1/10W	R354	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R102	1-216-025-11	RES-CHIP	100 5% 1/10W	R355	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R105	1-216-295-91	SHORT	0	R356	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R109	1-216-041-00	RES-CHIP	470 5% 1/10W	R357	1-216-079-00	RES-CHIP	18K 5% 1/10W
R111	1-216-025-11	RES-CHIP	100 5% 1/10W	R358	1-216-049-11	RES-CHIP	1K 5% 1/10W
R112	1-216-025-11	RES-CHIP	100 5% 1/10W	R359	1-216-033-00	RES-CHIP	220 5% 1/10W
R113	1-216-047-91	RES-CHIP	820 5% 1/10W	R360	1-216-033-00	RES-CHIP	220 5% 1/10W
R202	1-216-053-00	RES-CHIP	1.5K 5% 1/10W	R361	1-216-073-91	RES-CHIP	10K 5% 1/10W
R203	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R362	1-216-075-00	RES-CHIP	12K 5% 1/10W
R204	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R363	1-216-079-00	RES-CHIP	18K 5% 1/10W
R205	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R364	1-216-295-91	SHORT	0
R206	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R365	1-216-033-00	RES-CHIP	220 5% 1/10W
R207	1-216-053-00	RES-CHIP	1.5K 5% 1/10W	R366	1-216-073-91	RES-CHIP	10K 5% 1/10W
R208	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	R367	1-216-073-91	RES-CHIP	10K 5% 1/10W
R209	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	R368	1-216-073-91	RES-CHIP	10K 5% 1/10W
R210	1-216-031-00	RES-CHIP	180 5% 1/10W	R370	1-216-033-00	RES-CHIP	220 5% 1/10W

The components identified by shading
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Replace only with part number specified.

**KV-XG29M30/XG29M50/XG29M60/
KV-XG29M80/XG29M81/XG29M90**

RM-952

A

REF NO.	PART NO.	DESCRIPTION	REMARK	REF NO.	PART NO.	DESCRIPTION	REMARK
R371	1-216-083-00	RES-CHIP	27K 5% 1/10W	R564	1-208-820-11	METAL CHIP	39K 0.5% 1/10W
R372	1-216-091-00	RES-CHIP	56K 5% 1/10W	R565	1-216-073-91	RES-CHIP	10K 5% 1/10W
R376	1-216-081-00	RES-CHIP	22K 5% 1/10W	R567	1-216-105-91	RES-CHIP	220K 5% 1/10W
R377	1-216-121-11	RES-CHIP	1M 5% 1/10W	R568	1-249-383-11	CARBON	1.5 5% 1/4W
R378	1-216-041-00	RES-CHIP	470 5% 1/10W	R570	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
R379	1-218-179-11	RES-CHIP	10M 5% 1/10W	R571	1-215-443-00	METAL	8.2K 1% 1/4W
R380	1-216-041-00	RES-CHIP	470 5% 1/10W	R573	1-216-083-00	RES-CHIP	27K 5% 1/10W
R383	1-216-049-11	RES-CHIP	1K 5% 1/10W	R575	1-208-796-11	METAL CHIP	3.9K 0.5% 1/10W
R384	1-216-295-91	SHORT	0	R577	1-215-913-11	METAL OXIDE	220 5% 3W
R385	1-216-033-00	RES-CHIP	220 5% 1/10W	R578	1-216-369-00	METAL OXIDE	1 5% 2W
R391	1-216-049-11	RES-CHIP	1K 5% 1/10W	R579	1-216-295-91	SHORT	0
R500	1-249-417-11	CARBON	1K 5% 1/4W	R580	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
R501	1-216-049-11	RES-CHIP	1K 5% 1/10W	R581	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W
R505	1-216-699-91	METAL CHIP	100K 0.5% 1/10W	R582	1-208-842-11	METAL CHIP	330K 0.5% 1/10W
R506	1-216-081-00	RES-CHIP	22K 5% 1/10W	R584	1-208-838-91	METAL CHIP	220K 0.5% 1/10W
R507	1-249-389-11	CARBON	4.7 5% 1/4W	R587	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R508	1-216-471-11	METAL OXIDE	27 5% 3W	R588	1-215-888-00	METAL OXIDE	220 5% 2W
R509	1-216-473-11	METAL OXIDE	56 5% 3W	R589	1-215-888-00	METAL OXIDE	220 5% 2W
R510	1-216-449-11	METAL OXIDE	56 5% 2W	R590	1-215-465-00	METAL	68K 1% 1/4W
R511	1-215-908-00	METAL OXIDE	33 5% 3W	R591	1-260-288-11	CARBON	0.47 5% 1/2W
R515	1-215-911-11	METAL OXIDE	100 5% 3W	R592	1-208-820-11	METAL CHIP	39K 0.5% 1/10W
R517	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W	R593	1-260-288-11	CARBON	0.47 5% 1/2W
R518	1-247-807-31	CARBON	100 5% 1/4W	R594	1-260-288-11	CARBON	0.47 5% 1/2W
R519	1-215-913-11	METAL OXIDE	220 5% 3W	R595	1-216-073-91	RES-CHIP	10K 5% 1/10W
R520	1-215-445-00	METAL	10K 1% 1/4W	R596	1-215-916-00	METAL OXIDE	680 5% 3W
R522	1-208-806-11	METAL CHIP	10K 0.5% 1/10W	R597	1-247-750-11	CARBON	680 5% 1/2W
R523	1-249-411-11	CARBON	330 5% 1/4W	R598	1-249-438-11	CARBON	56K 5% 1/4W
R525	1-208-846-11	METAL CHIP	470K 0.5% 1/10W	R599	1-249-389-11	CARBON	4.7 5% 1/4W
R526	1-208-804-11	METAL CHIP	8.2K 0.5% 1/10W	R600	1-249-438-11	CARBON	56K 5% 1/4W
R527	1-216-001-00	RES-CHIP	10 5% 1/10W	R601	1-249-420-11	CARBON	1.8K 5% 1/4W
R528	1-208-814-91	METAL CHIP	22K 0.5% 1/10W	R602	1-249-389-11	CARBON	4.7 5% 1/4W
R529	1-216-635-11	METAL CHIP	220 0.5% 1/10W	R603	1-215-485-00	METAL	470K 1% 1/4W
R531	1-247-843-11	CARBON	3.3K 5% 1/4W	R604	1-216-097-11	RES-CHIP	100K 5% 1/10W
R533	1-249-417-11	CARBON	1K 5% 1/4W	R607	1-249-425-11	CARBON	4.7K 5% 1/4W
R534	1-216-364-11	METAL OXIDE	0.39 5% 2W	R608	1-240-205-51	CARBON	22M 5% 1/2W
R535	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	R609	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R536	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	R610	1-216-073-91	RES-CHIP	10K 5% 1/10W
R537	1-208-804-11	METAL CHIP	8.2K 0.5% 1/10W	R611	1-216-089-91	RES-CHIP	47K 5% 1/10W
R539	1-216-049-11	RES-CHIP	1K 5% 1/10W	R612	1-216-045-00	RES-CHIP	680 5% 1/10W
R540	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R614	1-216-041-00	RES-CHIP	470 5% 1/10W
R541	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R615	1-216-369-00	METAL OXIDE	1 5% 2W
R542	1-216-073-91	RES-CHIP	10K 5% 1/10W	R616	1-260-302-51	CARBON	6.8 5% 1/2W
R543	1-216-437-00	METAL OXIDE	5.6K 5% 1W	R617	1-247-791-91	CARBON	22 5% 1/4W
R544	1-215-917-11	METAL OXIDE	1K 5% 3W	R619	1-260-128-11	CARBON	270K 5% 1/2W
R545	1-216-077-91	RES-CHIP	15K 5% 1/10W	R620	1-129-720-00	FILM	0.033UF 5.00% 630V
R546	1-216-077-91	RES-CHIP	15K 5% 1/10W	R621	1-215-864-00	METAL OXIDE	150 5% 1W
R547	1-216-085-91	RES-CHIP	33K 5% 1/10W	R623	1-216-095-00	RES-CHIP	82K 5% 1/10W
R548	1-208-796-11	METAL CHIP	3.9K 0.5% 1/10W	R624	1-216-089-91	RES-CHIP	47K 5% 1/10W
R549	1-215-452-00	METAL	20K 1% 1/4W	R626	1-216-049-11	RES-CHIP	1K 5% 1/10W
R550	1-216-097-11	RES-CHIP	100K 5% 1/10W	R627	1-240-251-11	CMT-MELF	6.8 5% 10W
R551	1-249-441-11	CARBON	100K 5% 1/4W	R629	1-247-747-11	CARBON	470 5% 1/2W
R552	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R630	1-249-429-11	CARBON	10K 5% 1/4W
R553	1-215-453-00	METAL	22K 1% 1/4W	R631	1-216-089-91	RES-CHIP	47K 5% 1/10W
R554	1-215-453-00	METAL	22K 1% 1/4W	R632	1-220-886-11	FUSIBLE	0.1 10% 1W
R556	1-215-437-00	METAL	4.7K 1% 1/4W	R634	△ 1-247-289-00	RESISTOR	8.2M 5% 1W
R558	1-247-843-11	CARBON	3.3K 5% 1/4W	R635	1-216-492-11	METAL OXIDE	82K 5% 3W
R559	1-249-429-11	CARBON	10K 5% 1/4W	R636	1-215-924-00	METAL OXIDE	15K 5% 3W
R560	1-216-073-91	RES-CHIP	10K 5% 1/10W	R637	1-216-492-11	METAL OXIDE	82K 5% 3W
R561	1-216-049-11	RES-CHIP	1K 5% 1/10W	R639	1-216-361-00	METAL OXIDE	0.22 5% 2W
R562	1-249-401-11	CARBON	47 5% 1/4W	R640	1-249-415-11	CARBON	680 5% 1/4W

The components identified by shading
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B6

REF NO.	PART NO.	DESCRIPTION	REMARK
R641	1-216-361-00	METAL OXIDE	0.22 5% 2W
R642	1-249-419-11	CARBON	1.5K 5% 1/4W
R643	1-247-843-11	CARBON	3.3K 5% 1/4W
R644	1-249-419-11	CARBON	1.5K 5% 1/4W
R646	1-215-924-00	METAL OXIDE	15K 5% 3W
R647	1-249-387-11	CARBON	3.3 5% 1/4W
R648	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R649	1-249-417-11	CARBON	1K 5% 1/4W
R650	1-215-882-00	METAL OXIDE	22 5% 2W
R652	1-215-900-11	METAL OXIDE	22K 5% 2W
R653	1-215-873-00	METAL OXIDE	4.7K 5% 1W
R656	1-249-417-11	CARBON	1K 5% 1/4W
R657	1-260-127-11	CARBON	220K 5% 1/2W
R659	1-216-049-11	RES-CHIP	1K 5% 1/10W
R660	1-216-073-91	RES-CHIP	10K 5% 1/10W
R661	1-215-873-00	METAL OXIDE	4.7K 5% 1W
R682	1-249-377-11	CARBON	0.47 5% 1/4W
R901	1-249-411-11	CARBON	330 5% 1/4W
R902	1-249-411-11	CARBON	330 5% 1/4W
R909	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R910	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
<RELAY>			
RY600	$\triangle$ 1-755-214-11	RELAY, AC POWER	
RY601	$\triangle$ 1-755-214-11	RELAY, AC POWER	
<SWITCH>			
S501	1-572-707-11	SWITCH, LEVER	
S502	1-572-707-11	SWITCH, LEVER	
<TRANSFORMER>			
T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
T503	$\triangle$ 1-453-284-11	TRANSFORMER ASSY FLY BACK (NX-4009//M314)	
T504	1-431-693-11	TRANSFORMER, HORIZONTAL LINEAR	
T505	1-426-981-11	TRANSFORMER, FERRITE (PMT)	
T601	1-419-819-11	COIL, LINE FILTER	
T603	$\triangle$ 1-435-147-11	TRANSFORMER, CONVERTER (SRT)	
T604	$\triangle$ 1-431-852-11	TRANSFORMER, CONVERTER (SRT)	
<THERMISTOR>			
TH600	1-803-586-11	THERMISTOR, NTC	
<THERMISTOR>			
THP600	$\triangle$ 1-803-540-11	THERMISTOR	
<TUNER>			
TU101	8-598-451-00	TUNER, FSS BTF-WG441	
<VARISTOR>			
VDR600	1-803-830-31	VARISTOR (ERZV14D621)	

REF NO.	PART NO.	DESCRIPTION	REMARK
<CRYSTAL>			
X001	1-579-125-11	VIBRATOR, CERAMIC	
X301	1-781-134-21	VIBRATOR, CRYSTAL	
X302	1-781-132-21	VIBRATOR, CRYSTAL	

* A-1136-180-A B6 BOARD COMPLETE			

1-533-223-11	CLIP, FUSE		
<CAPACITOR>			
C8227	1-163-037-11	CERAMIC CHIP	0.022UF 10.00% 50V
C8228	1-163-024-00	CERAMIC CHIP	0.018UF 10.00% 50V
C8229	1-163-018-00	CERAMIC CHIP	0.0056UF 10.00% 50V
C8230	1-163-024-00	CERAMIC CHIP	0.018UF 10.00% 50V
C8231	1-163-018-00	CERAMIC CHIP	0.0056UF 10.00% 50V
C8232	1-163-037-11	CERAMIC CHIP	0.022UF 10.00% 50V
C8233	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C8234	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C8235	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C8236	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C8238	1-164-505-11	CERAMIC CHIP	2.2UF 16V
C8240	1-164-505-11	CERAMIC CHIP	2.2UF 16V
C8241	1-164-346-11	CERAMIC CHIP	1UF 16V
C8242	1-164-505-11	CERAMIC CHIP	2.2UF 16V
C8243	1-164-346-11	CERAMIC CHIP	1UF 16V
C8244	1-164-700-11	CERAMIC CHIP	0.68UF 16V
C8245	1-164-346-11	CERAMIC CHIP	1UF 16V
C8246	1-163-018-00	CERAMIC CHIP	0.0056UF 10.00% 50V
C8247	1-164-346-11	CERAMIC CHIP	1UF 16V
C8248	1-163-010-11	CERAMIC CHIP	0.0012UF 10.00% 50V
C8249	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C8250	1-164-346-11	CERAMIC CHIP	1UF 16V
C8251	1-163-017-00	CERAMIC CHIP	0.0047UF 10.00% 50V
C8252	1-164-346-11	CERAMIC CHIP	1UF 16V
C8253	1-163-037-11	CERAMIC CHIP	0.022UF 10.00% 50V
C8254	1-126-965-91	ELECT	22UF 20.00% 50V
C8255	1-163-037-11	CERAMIC CHIP	0.022UF 10.00% 50V
C8258	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C8259	1-126-933-11	ELECT	100UF 20.00% 16V
C8260	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V
C8261	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V
C8263	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C8301	1-126-933-11	ELECT	100UF 20.00% 16V
C8304	1-126-967-11	ELECT	47UF 20.00% 50V
C8305	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
C8333	1-126-964-11	ELECT	10UF 20.00% 50V
C8401	1-164-346-11	CERAMIC CHIP	1UF 16V
C8402	1-164-346-11	CERAMIC CHIP	1UF 16V
C8403	1-163-005-91	CERAMIC CHIP	470PF 10.00% 50V
C8404	1-163-005-91	CERAMIC CHIP	470PF 10.00% 50V
C8405	1-126-935-11	ELECT	470UF 20.00% 16V
C8406	1-164-346-11	CERAMIC CHIP	1UF 16V
C8407	1-164-346-11	CERAMIC CHIP	1UF 16V
C8408	1-163-133-00	CERAMIC CHIP	470PF 5.00% 50V
C8409	1-126-933-11	ELECT	100UF 20.00% 16V

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B6

REF NO.	PART NO.	DESCRIPTION	REMARK
C8410	1-164-346-11	CERAMIC CHIP 1UF	16V
C8411	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V
C8412	1-164-346-11	CERAMIC CHIP 1UF	16V
C8413	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V
C8414	1-126-963-11	ELECT 4.7UF	20.00% 50V
C8415	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V
C8416	1-164-346-11	CERAMIC CHIP 1UF	16V
C8417	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V
C8418	1-164-346-11	CERAMIC CHIP 1UF	16V
C8419	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V
C8601	△ 1-104-708-11	MYLAR 0.47UF	20.00% 250V
C8602	△ 1-109-835-11	MYLAR 0.68UF	20.00% 250V
C8654	△ 1-117-703-11	CERAMIC 0.0047UF	99% 250V
<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	
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	RD9.1S-B	
D8401	8-719-158-35	RD9.1S-B	
D8402	8-719-158-35	RD9.1S-B	
D8403	8-719-158-35	RD9.1S-B	
D8404	8-719-158-35	RD9.1S-B	
D8405	8-719-158-35	RD9.1S-B	
D8406	8-719-158-35	RD9.1S-B	
D8407	8-719-158-35	RD9.1S-B	
D8408	8-719-158-35	RD9.1S-B	
D8409	8-719-158-35	RD9.1S-B	
D8410	8-719-158-35	RD9.1S-B	
D8411	8-719-158-35	RD9.1S-B	
D8412	8-719-914-42	DA204K	
D8413	8-719-158-35	RD9.1S-B	
<FUSE>			
F8601	△ 1-532-299-00	FUSE, TIME-LAG 5A/250V	
<IC>			
IC8203	8-759-553-40	TDA7429S	
IC8204	8-759-100-96	UPC4558G2	
<JACK>			
J8402	1-778-388-11	JACK BLOCK, PIN 9P	
<CHIP CONDUCTOR>			
JR8206	1-216-295-91	SHORT 0	
JR8401	1-216-295-91	SHORT 0	

REF NO.	PART NO.	DESCRIPTION	REMARK
<COIL>			
L8204	1-414-856-11	INDUCTOR 10UH	
L8301	1-414-189-31	INDUCTOR 100UH	
<TRANSISTOR>			
Q8309	8-729-120-28	2SC1623-L5L6	
Q8310	8-729-120-28	2SC1623-L5L6	
Q8401	8-729-424-67	UN2216	
Q8402	8-729-424-67	UN2216	
Q8403	8-729-216-22	2SA1162-G	
Q8404	8-729-216-22	2SA1162-G	
<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	1-216-025-11	RES-CHIP 100	5% 1/10W
R8220	1-216-025-11	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	1-216-073-91	RES-CHIP 10K	5% 1/10W
R8225	1-216-069-00	RES-CHIP 6.8K	5% 1/10W
R8226	1-216-069-00	RES-CHIP 6.8K	5% 1/10W
R8238	1-216-067-00	RES-CHIP 5.6K	5% 1/10W
R8239	1-216-067-00	RES-CHIP 5.6K	5% 1/10W
R8240	1-216-689-11	RES-CHIP 39K	5% 1/10W
R8241	1-216-067-00	RES-CHIP 5.6K	5% 1/10W
R8242	1-216-067-00	RES-CHIP 5.6K	5% 1/10W
R8243	1-216-689-11	RES-CHIP 39K	5% 1/10W
R8334	1-216-022-00	RES-CHIP 75	5% 1/10W
R8335	1-216-033-00	RES-CHIP 220	5% 1/10W
R8336	1-216-041-00	RES-CHIP 470	5% 1/10W
R8337	1-216-045-00	RES-CHIP 680	5% 1/10W
R8339	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
R8341	1-216-045-00	RES-CHIP 680	5% 1/10W
R8342	1-216-049-11	RES-CHIP 1K	5% 1/10W
R8343	1-216-063-91	RES-CHIP 3.9K	5% 1/10W
R8344	1-216-073-91	RES-CHIP 10K	5% 1/10W
R8401	1-216-049-11	RES-CHIP 1K	5% 1/10W
R8402	1-216-073-91	RES-CHIP 10K	5% 1/10W
R8403	1-216-073-91	RES-CHIP 10K	5% 1/10W
R8404	1-216-073-91	RES-CHIP 10K	5% 1/10W
R8405	1-216-049-11	RES-CHIP 1K	5% 1/10W
R8406	1-216-073-91	RES-CHIP 10K	5% 1/10W
R8407	1-216-049-11	RES-CHIP 1K	5% 1/10W
R8408	1-216-049-11	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
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

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

B6

C6

REF NO.	PART NO.	DESCRIPTION	REMARK			
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	
R8422	1-216-077-91	RES-CHIP	15K	5%	1/10W	
R8423	1-216-113-00	RES-CHIP	470K	5%	1/10W	
R8424	1-216-022-00	RES-CHIP	75	5%	1/10W	
R8425	1-216-033-00	RES-CHIP	220	5%	1/10W	
R8426	1-216-033-00	RES-CHIP	220	5%	1/10W	
R8427	1-216-089-91	RES-CHIP	47K	5%	1/10W	
R8428	1-216-113-00	RES-CHIP	470K	5%	1/10W	
R8429	1-216-089-91	RES-CHIP	47K	5%	1/10W	
R8430	1-216-113-00	RES-CHIP	470K	5%	1/10W	
R8601	$\triangle$ 1-202-719-00	SOLID	1M	10%	1/2W	

<TRANSFORMER>

T8601	$\triangle$ 1-419-819-11	COIL, LINE FILTER
T8602	$\triangle$ 1-419-818-11	COIL, LINE FILTER

A-1332-209-A C6 BOARD MOUNTED

4-352-844-01 PIN, LEAD, COATING
4-382-854-11 SCREW (M3X10), P, SW (+)
7-682-948-01 SCREW +PSW 3X8

<CAPACITOR>

C701	1-162-114-00	CERAMIC	0.0047UF		2KV
C702	1-102-074-00	CERAMIC	0.001UF	10.00%	50V
C708	1-102-114-00	CERAMIC	470PF	10.00%	50V
C709	1-102-114-00	CERAMIC	470PF	10.00%	50V
C710	1-102-114-00	CERAMIC	470PF	10.00%	50V
C712	1-102-115-00	CERAMIC	560PF	10.00%	50V
C713	1-102-112-00	CERAMIC	330PF	10.00%	50V
C714	1-102-112-00	CERAMIC	330PF	10.00%	50V
C716	1-126-933-11	ELECT	100UF	20.00%	16V
C717	1-107-651-11	ELECT	4.7UF	20.00%	250V
C718	1-102-106-00	CERAMIC	100PF	10.00%	50V
C1800	1-126-964-11	ELECT	10UF	20.00%	50V
C1803	1-126-964-11	ELECT	10UF	20.00%	50V
C1804	1-126-964-11	ELECT	10UF	20.00%	50V
C1809	1-126-942-61	ELECT	1000UF	20.00%	25V
C1810	1-102-106-00	CERAMIC	100PF	10.00%	50V
<CONNECTOR>					
CN700	1-695-915-11	TAB (CONTACT)			
CN702	1-695-915-11	TAB (CONTACT)			
CN703	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN704	1-695-915-11	TAB (CONTACT)			
CN712	* 1-564-507-11	PLUG, CONNECTOR 4P			
CN1801	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN1802	* 1-564-506-11	PLUG, CONNECTOR 3P			

REF NO.	PART NO.	DESCRIPTION	REMARK			
		<DIODE>				
D701	8-719-911-19	1SS119-25				
D702	8-719-911-19	1SS119-25				
D703	8-719-911-19	1SS119-25				
D704	8-719-911-19	1SS119-25				
D705	8-719-911-19	1SS119-25				
D706	8-719-911-19	1SS119-25				
D707	8-719-911-19	1SS119-25				
D708	8-719-911-19	1SS119-25				
D709	8-719-911-19	1SS119-25				
D710	8-719-911-19	1SS119-25				
D711	8-719-911-19	1SS119-25				
D712	8-719-911-19	1SS119-25				
D716	8-719-911-19	1SS119-25				
D717	8-719-070-16	NNCD9.1A-T1				
D1803	8-719-911-19	1SS119-25				
D1804	8-719-911-19	1SS119-25				
D1808	8-719-908-03	GP08D				
		<IC>				
IC1800	8-759-822-38	LA6510				
		<JACK>				
J701	$\triangle$ 1-540-071-22	SOCKET, CRT				
		<COIL>				
L701	1-410-667-31	INDUCTOR	22UH			
L703	1-414-186-31	INDUCTOR	33UH			
L705	1-414-186-31	INDUCTOR	33UH			
L707	1-414-187-11	INDUCTOR	47UH			
		<TRANSISTOR>				
Q701	8-729-326-11	2SC2611				
Q702	8-729-326-11	2SC2611				
Q703	8-729-326-11	2SC2611				
Q704	8-729-326-11	2SC2611				
Q705	8-729-326-11	2SC2611				
Q706	8-729-326-11	2SC2611				
Q707	8-729-200-17	2SA1091-O				
Q708	8-729-200-17	2SA1091-O				
Q709	8-729-200-17	2SA1091-O				
Q710	8-729-119-78	2SC2785-HFE				
Q711	8-729-119-78	2SC2785-HFE				
Q712	8-729-119-78	2SC2785-HFE				
Q714	8-729-255-12	2SC2551-O				
Q1800	8-729-119-76	2SA1175-HFE				
Q1802	8-729-119-78	2SC2785-HFE				
		<RESISTOR>				
R701	1-219-752-11	CARBON	100K	5%	1/2W	
R705	1-216-392-11	METAL OXIDE	1.8	5%	3W	
R710	1-215-923-00	METAL OXIDE	10K	5%	3W	
R711	1-260-328-11	CARBON	1K	5%	1/2W	
R712	1-215-923-00	METAL OXIDE	10K	5%	3W	

**KV-XG29M30/XG29M50/XG29M60/
KV-XG29M80/XG29M81/XG29M90**
RM-952

REF NO.	PART NO.	DESCRIPTION		REMARK		REF NO.	PART NO.	DESCRIPTION		REMARK	
R713	1-260-330-11	CARBON	1.5K	5%	1/2W		A-1333-149-A	D3 BOARD MOUNTED			
R714	1-215-923-00	METAL OXIDE	10K	5%	3W			*****			
R715	1-260-330-11	CARBON	1.5K	5%	1/2W						
R716	1-249-899-11	CARBON	100	5%	1/4W						
R717	1-249-899-11	CARBON	100	5%	1/4W						
								<CAPACITOR>			
R718	1-249-899-11	CARBON	100	5%	1/4W	C2800	1-104-664-11	ELECT	47UF	20.00%	25V
R719	1-215-469-00	METAL	100K	1%	1/4W	C2801	1-106-220-00	MYLAR	0.1UF	10.00%	100V
R720	1-249-923-11	CARBON	1K	5%	1/4W	C2802	1-136-155-00	FILM	0.015UF	5.00%	50V
R722	1-249-923-11	CARBON	1K	5%	1/4W	C2803	1-129-723-00	FILM	0.056UF	5.00%	630V
R723	1-215-469-00	METAL	100K	1%	1/4W	C2805	1-104-664-11	ELECT	47UF	20.00%	25V
R724	1-249-923-11	CARBON	1K	5%	1/4W	C2806	1-106-383-00	MYLAR	0.047UF	5.00%	100V
R725	1-249-424-11	CARBON	3.9K	5%	1/4W	C2807	1-137-194-81	FILM	0.47UF	5.00%	50V
R726	1-249-424-11	CARBON	3.9K	5%	1/4W	C2808	1-126-964-11	ELECT	10UF	20.00%	50V
R727	1-249-424-11	CARBON	3.9K	5%	1/4W	C2809	1-137-194-81	FILM	0.47UF	5.00%	50V
R728	1-249-408-11	CARBON	180	5%	1/4W	C2810	1-106-375-12	MYLAR	0.022UF	10.00%	250V
R729	1-249-408-11	CARBON	180	5%	1/4W	C2811	1-126-964-11	ELECT	10UF	20.00%	50V
R730	1-249-408-11	CARBON	180	5%	1/4W	C2812	1-126-964-11	ELECT	10UF	20.00%	50V
R731	1-249-401-11	CARBON	47	5%	1/4W	C2813	1-129-708-61	FILM	0.0033UF	5.00%	630V
R732	1-249-401-11	CARBON	47	5%	1/4W						
R733	1-249-401-11	CARBON	47	5%	1/4W						
								<CONNECTOR>			
R734	1-219-743-11	CARBON	100	5%	1/2W						
R738	1-247-807-31	CARBON	100	5%	1/4W						
R739	1-247-807-31	CARBON	100	5%	1/4W	CN2800 *	1-564-510-11	PLUG, CONNECTOR 7P			
R740	1-247-807-31	CARBON	100	5%	1/4W	CN2802 *	1-564-506-11	PLUG, CONNECTOR 3P			
R747	1-215-926-00	METAL OXIDE	33K	5%	3W	CN2803	1-695-915-11	TAB (CONTACT)			
R749	1-215-927-00	METAL OXIDE	47K	5%	3W						
R751	1-215-926-00	METAL OXIDE	33K	5%	3W			<DIODE>			
R753	1-249-429-11	CARBON	10K	5%	1/4W						
R755	1-249-427-11	CARBON	6.8K	5%	1/4W	D2800	8-719-302-43	EL1Z			
R756	1-249-427-11	CARBON	6.8K	5%	1/4W	D2801	8-719-911-19	ISS119-25			
						D2802	8-719-911-19	ISS119-25			
R757	1-249-427-11	CARBON	6.8K	5%	1/4W	D2803	8-719-911-19	ISS119-25			
R758	1-249-419-11	CARBON	1.5K	5%	1/4W						
R759	1-249-419-11	CARBON	1.5K	5%	1/4W						
R760	1-249-419-11	CARBON	1.5K	5%	1/4W			<IC>			
R1800	1-249-417-11	CARBON	1K	5%	1/4W						
						IC2800	8-759-701-59	NJM78M09FA			
R1801	1-249-426-										

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

D3

H2

VM1

REF NO.	PART NO.	DESCRIPTION	REMARK		
R2808	1-215-857-71	METAL OXIDE	10	5%	1W
R2809	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R2810	1-216-049-11	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	1-216-121-11	RES-CHIP	1M	5%	1/10W
R2815	1-216-085-91	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-1377-027-A		H2 BOARD MOUNTED			

* 4-055-304-11		HOLDER, LED			
<CAPACITOR>					
C2910	1-104-660-91	ELECT	47UF	20.00%	16V
C2911	1-104-660-91	ELECT	47UF	20.00%	16V
C2912	1-102-114-00	CERAMIC	470PF	10.00%	50V
<CONNECTOR>					
CN2601	* 1-580-844-11	PIN, CONNECTOR (POWER)			
CN2602	* 1-580-844-11	PIN, CONNECTOR (POWER)			
CN2901	* 1-564-507-11	PLUG, CONNECTOR 4P			
CN2902	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN2904	* 1-564-508-11	PLUG, CONNECTOR 5P			
CN2905	* 1-564-512-11	PLUG, CONNECTOR 9P			
<DIODE>					
D2905	8-719-070-16	NNCD9.1A-T1			
D2906	8-719-045-19	SPB-26MVWF			
D2908	8-719-070-16	NNCD9.1A-T1			
<IC>					
IC2901	8-742-225-20				
<JACK>					
J2901	1-770-786-11	JACK			
J2903	1-770-329-11	JACK, PIN 3P			
<TRANSISTOR>					
Q2901	8-729-030-02	DTC144ESA			
Q2902	8-729-030-02	DTC144ESA			

REF NO.	PART NO.	DESCRIPTION	REMARK		
<RESISTOR>					
R2907	1-249-426-11	CARBON	5.6K	5%	1/4W
R2908	1-249-413-11	CARBON	470	5%	1/4W
R2909	1-249-417-11	CARBON	1K	5%	1/4W
R2910	1-249-420-11	CARBON	1.8K	5%	1/4W
R2911	1-249-411-11	CARBON	330	5%	1/4W
R2912	1-247-843-11	CARBON	3.3K	5%	1/4W
R2913	1-249-429-11	CARBON	10K	5%	1/4W
R2914	1-249-411-11	CARBON	330	5%	1/4W
R2915	1-249-429-11	CARBON	10K	5%	1/4W
R2916	1-249-401-11	CARBON	47	5%	1/4W
R2920	1-247-807-31	CARBON	100	5%	1/4W
R2921	1-247-807-31	CARBON	100	5%	1/4W
<SWITCH>					
S2601	△ 1-571-433-21	SWITCH, PUSH (AC POWER)			
S2902	1-692-431-21	SWITCH, TACTILE			
S2903	1-692-431-21	SWITCH, TACTILE			
S2904	1-692-431-21	SWITCH, TACTILE			
S2905	1-692-431-21	SWITCH, TACTILE			
S2906	1-692-431-21	SWITCH, TACTILE			
S2907	1-692-431-21	SWITCH, TACTILE			
S2908	1-692-431-21	SWITCH, TACTILE			

* A-1342-522-A		VM1 BOARD MOUNTED			

4-382-854-11		SCREW (M3X10), P, SW (+)			
<CAPACITOR>					
C5902	1-104-661-91	ELECT	330UF	20.00%	16V
C5903	1-161-830-00	CERAMIC	0.0047UF		500V
C5905	1-126-935-11	ELECT	470UF	20.00%	10V
C5906	1-130-491-00	MYLAR	0.047UF	5.00%	50V
C5907	1-107-638-11	ELECT	33UF	20.00%	160V
C5908	1-106-383-00	MYLAR	0.047UF	10.00%	200V
C5909	1-126-933-11	ELECT	100UF	20.00%	16V
C5910	1-130-471-00	MYLAR	0.001UF	5.00%	50V
C5911	1-107-949-11	ELECT	2.2UF	20.00%	160V
C5912	1-104-999-11	MYLAR	0.1UF	10.00%	200V
C5913	1-130-471-00	MYLAR	0.001UF	5.00%	50V
C5914	1-126-933-11	ELECT	100UF	20.00%	16V
C5916	1-130-491-00	MYLAR	0.047UF	5.00%	50V
C5917	1-126-935-11	ELECT	470UF	20.00%	10V
C5918	1-115-341-51	CERAMIC	120PF	10.00%	500V
C5920	1-126-964-11	ELECT	10UF	20.00%	50V
C5921	1-102-852-91	CERAMIC	47PF	5.00%	50V
<CONNECTOR>					
CN2801	* 1-564-506-11	PLUG, CONNECTOR 3P			
CN5901	* 1-564-510-11	PLUG, CONNECTOR 7P			
CN5904	* 1-770-723-11	CONNECTOR, BOARD TO BOARD 8P			

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

VM1

REF NO.	PART NO.	DESCRIPTION	REMARK			
<DIODE>						
D5901	8-719-911-19	ISS119-25				
D5902	8-719-110-88	RD39ES-B2				
D5903	8-719-911-19	ISS119-25				
D5904	8-719-110-88	RD39ES-B2				
D5905	8-719-911-19	ISS119-25				
D5906	1-249-406-11	CARBON	120	5%	1/4W	
D5907	1-249-406-11	CARBON	120	5%	1/4W	
<COIL>						
L5901	1-414-187-11	INDUCTOR	47UH			
L5902	1-414-856-11	INDUCTOR	10UH			
<TRANSISTOR>						
Q5901	8-729-119-78	2SC2785-HFE				
Q5902	8-729-809-26	2SA1606-E				
Q5903	8-729-119-78	2SC2785-HFE				
Q5904	8-729-026-39	2SA933AS-QT				
Q5905	8-729-119-78	2SC2785-HFE				
Q5906	8-729-809-29	2SC4159-E				
Q5908	8-729-119-78	2SC2785-HFE				
Q5909	8-729-119-78	2SC2785-HFE				
<RESISTOR>						
R5901	1-249-409-11	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	1-249-409-11	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	

REF NO.	PART NO.	DESCRIPTION	REMARK			
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						

1-251-317-12		CAP ASSY, HIGH-VOLTAGE				
Δ 1-419-323-31		COIL, DEGAUSSING				
1-452-094-00		CIRCULAR DISC MAGNET B				
1-452-032-00		MAGNET,DISC				
1-452-896-91		COIL, NA ROTATION				
1-529-563-11		SPEAKER (15X6.5CM)				
Δ 8-451-494-31		DEFLECTION YOKE (Y29RSA-S)				
Δ 8-735-057-051		PICTURE TUBE (M68LNH070X)				
Δ 1-575-023-31		CORD, POWER (WITH CONNECTOR) 6A/250V				
Δ 1-900-701-22		LEAD ASSY, G2+LEAD ASSY, FOCUS				
8-453-011-11		NA299-M				

ACCESSORIES AND PACKING MATERIAL						

3-701-910-00		SCREW, SPECIAL (DIA. 3.8X20)				
* 4-054-764-01		BAG,PROTECTION				
* 4-057-329-01		TRAY				
4-065-210-01		JOINT				
4-067-438-04		CUSHION (UPPER)(ASSY)				
* 4-067-439-02		CUSHION (LOWER)(ASSY)				
* 4-073-166-01		INDIVIDUAL CARTON				
4-080-934-12		MANUAL,INSTRUCTION				
4-392-003-21		BAND, HOLDING				
4-059-705-01		CLIP				

REMOTE COMMANDER						

9-939-697-01		BATTERY COVER REMOTE COMMANDER				
1-418-163-32		REMOTE COMMANDER (RM-952)				

SUPPLEMENT-4

BG3S CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>	<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
<i>KV-XG29M30</i>	<i>RM-952</i>	<i>Australia</i>	<i>SCC-U23D-A</i>	<i>KV-XG29M81</i>	<i>RM-952</i>	<i>ME</i>	<i>SCC-U30R-A</i>
<i>KV-XG29M50</i>	<i>RM-952</i>	<i>GE</i>	<i>SCC-U12S-A</i>	<i>KV-XG29M90</i>	<i>RM-952</i>	<i>Hong Kong</i>	<i>SCC-U17N-A</i>
<i>KV-XG29M50</i>	<i>RM-952</i>	<i>Malaysia</i>	<i>SCC-U21L-A</i>				
<i>KV-XG29M50</i>	<i>RM-952</i>	<i>Thailand</i>	<i>SCC-U18R-A</i>				
<i>KV-XG29M60</i>	<i>RM-952</i>	<i>Thailand</i>	<i>SCC-U18S-A</i>				
<i>KV-XG29M80</i>	<i>RM-952</i>	<i>ME</i>	<i>SCC-U30S-A</i>				

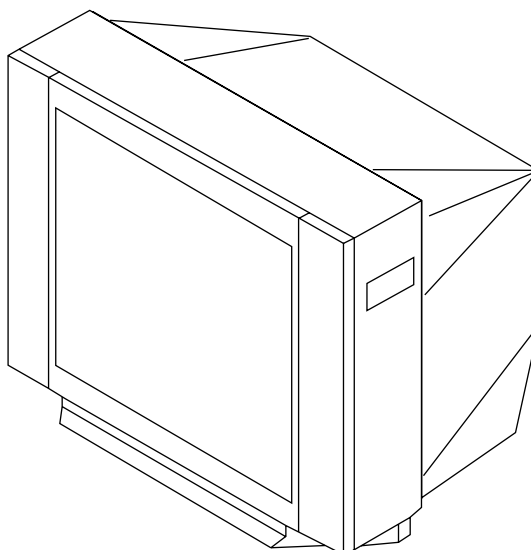
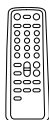
SUBJECT : CHASSIS CHANGE TO BG-3R; ADDITION OF SERIAL NUMBER

File this supplement with the Service Manual.

Note : The changes apply to model KV-XG29M60(Thailand) only with the following serial number;

☛ 50 sets pre-pro = 6013701 ~ 6013750

☛ mass-pro = 6016001 ~



TRINITRON® COLOR TV
SONY®

SUPPLEMENT-5

BG3S CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>	<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
KV-XG29M30	RM-952	Australia	SCC-U23D-A	KV-XG29M81	RM-952	ME	SCC-U30R-A
KV-XG29M50	RM-952	GE	SCC-U12S-A	KV-XG29M90	RM-952	Hong Kong	SCC-U17N-A
KV-XG29M50	RM-952	Malaysia	SCC-U21L-A				
KV-XG29M50	RM-952	Thailand	SCC-U18R-A				
KV-XG29M60	RM-952	Thailand	SCC-U18S-A				
KV-XG29M80	RM-952	ME	SCC-U30S-A				

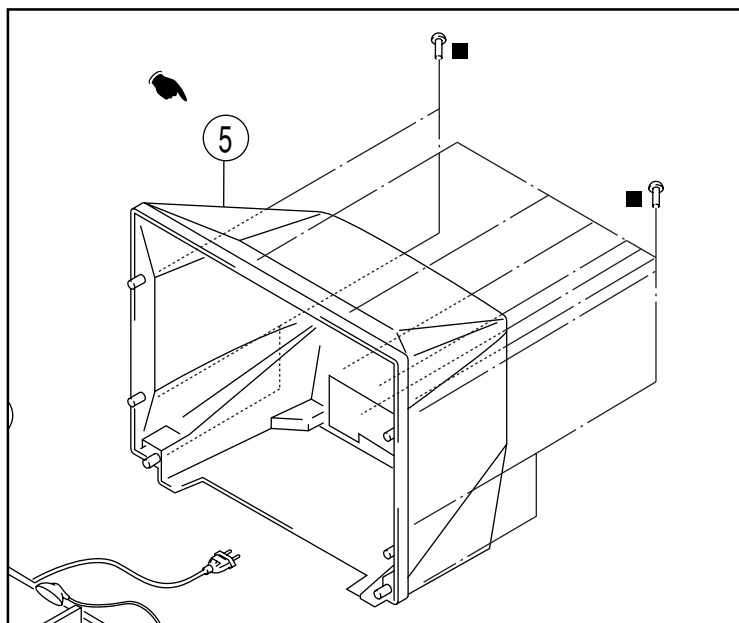
SUBJECT : PARTS CHANGE

Note : The following changes apply to model KV-XG29M60 Thailand only with serial number starting from:
KV-XG29M60 = 6,020,951 ~

SECTION 6. EXPLODED VIEW

6.1. SPEAKER BRACKET

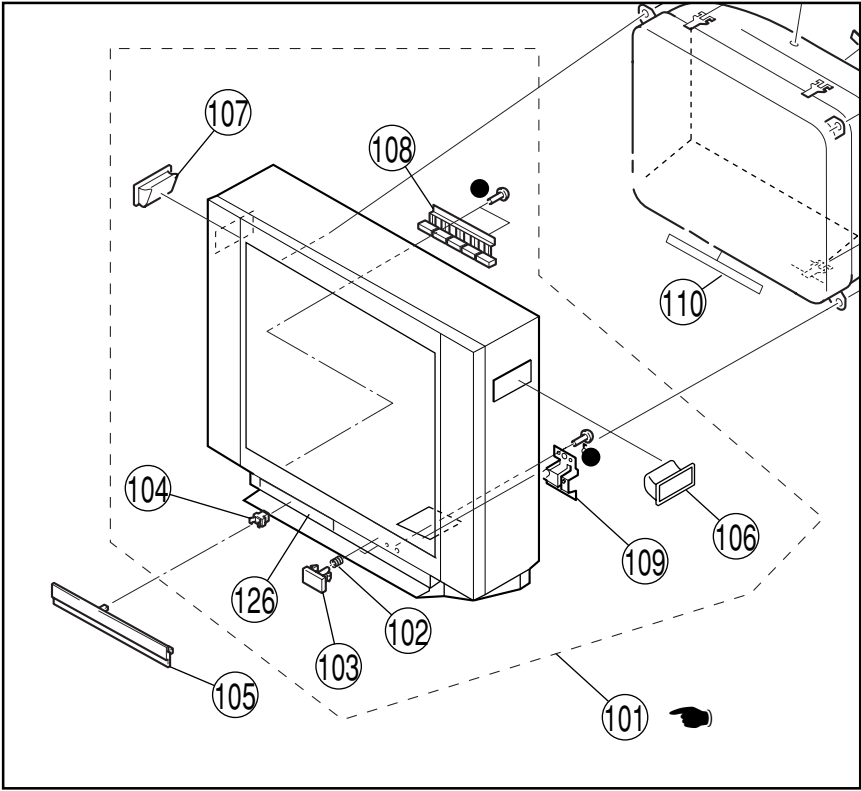
(see page 80)



<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
5	4-065-506-11	COVER, REAR (KV-XG29M60) Thailand	

6.3. PICTURE TUBE

(see page 82)



<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
101	X-4039-836-1	BEZNET ASSY (KV-XG29M60) Thailand	

SUPPLEMENT-6

BG3S CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>	<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
KV-XG29M30	RM-952	Australia	SCC-U23D-A	KV-XG29M81	RM-952	ME	SCC-U30R-A
KV-XG29M50	RM-952	GE	SCC-U12S-A	KV-XG29M90	RM-952	Hong Kong	SCC-U17N-A
KV-XG29M50	RM-952	Malaysia	SCC-U21L-A				
KV-XG29M50	RM-952	Thailand	SCC-U18R-A				
KV-XG29M60	RM-952	Thailand	SCC-U18S-A				
KV-XG29M80	RM-952	ME	SCC-U30S-A				

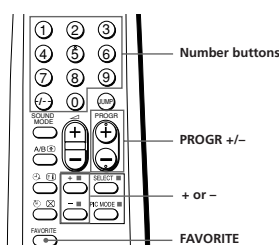
SUBJECT : CHASSIS CHANGE TO BG3R

Note : The following changes apply to model KV-XG29M50 (Thailand) only with serial number starting from 6,021,001 ~
: For the adjustment item table, please refer Supplement-3.

SECTION 1. GENERAL (see page 15)

Viewing your favorite channels

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



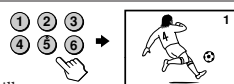
Selecting a favorite channel

- 1 Press FAVORITE.



- 2 Press the number button from 1 to 6 to select the desired favorite channel.

When you use the "FAVORITE CH" feature for the first time, six preset channels will appear.



Programming the favorite channel

- 1 Press PROGR +/- or number buttons to select the program number you want to program (e.g., program number 8).



- 2 Press SELECT until "FAVORITE CH SETUP" appears.



- 3 Press + or - to select the favorite channel you want to program (e.g., ③).



- 4 Press SELECT. The selected favorite channel (e.g., ③) turns red for about one second.



- 5 To program other favorite channels, repeat steps 1 to 4.

SECTION 5. DIAGRAM

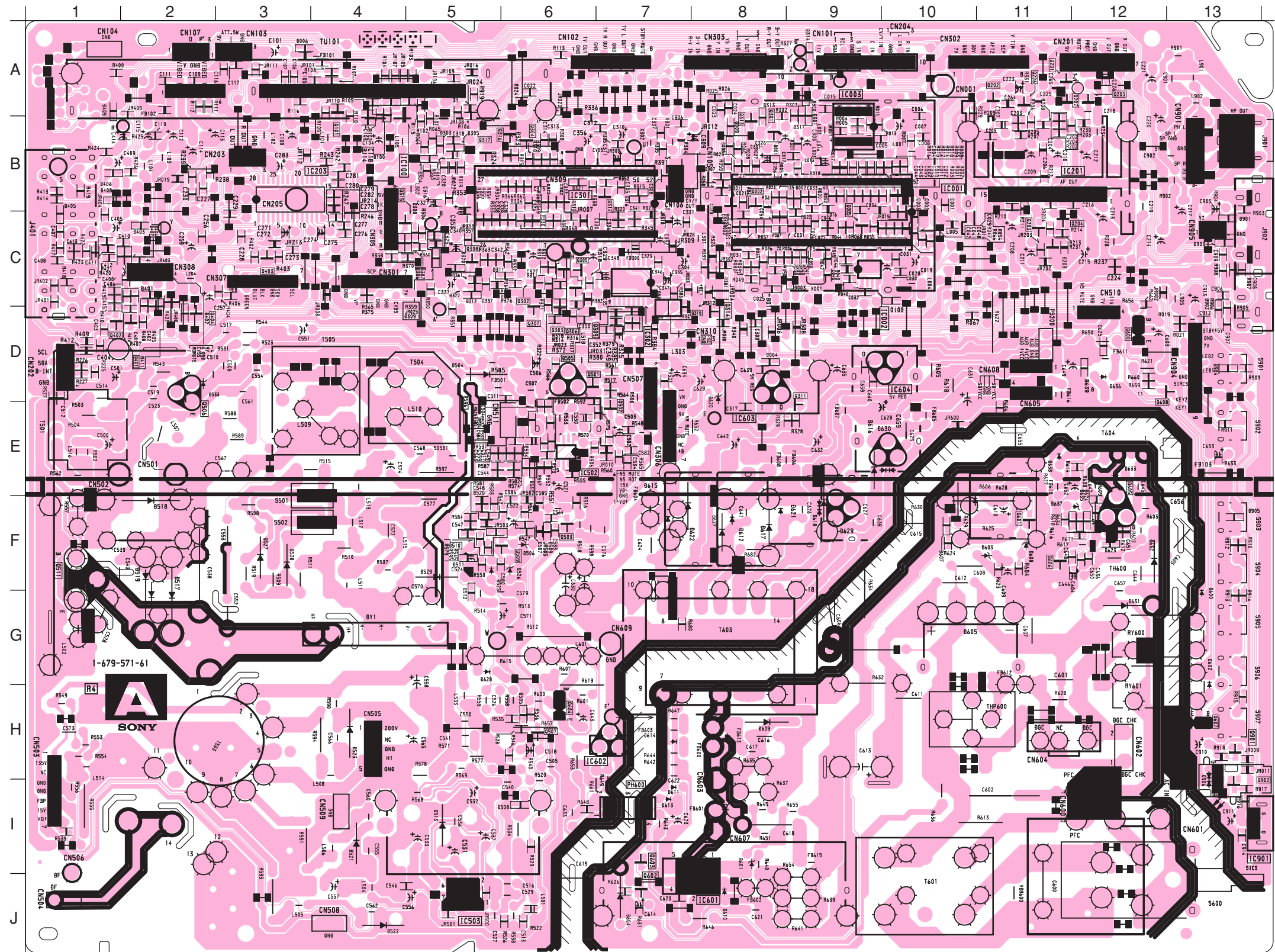
REMARK : The rest of the PWB boards and circuit diagram are same with KV-XG29M60(S).
Please refer Supplement 3.

5-6. PRINTED WIRING BOARDS AND PARTS LOCATION

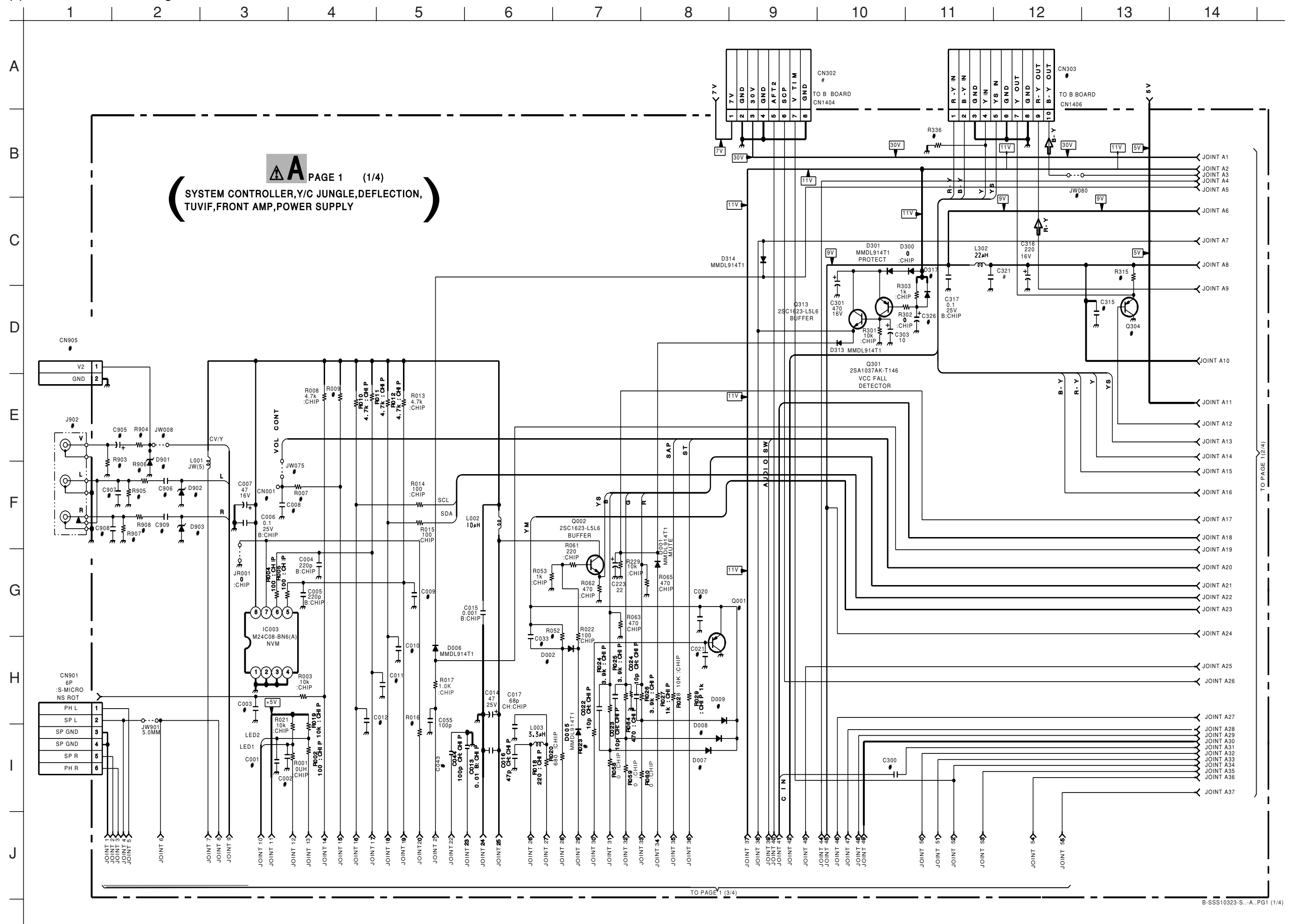
PRINTED WIRING BOARDS

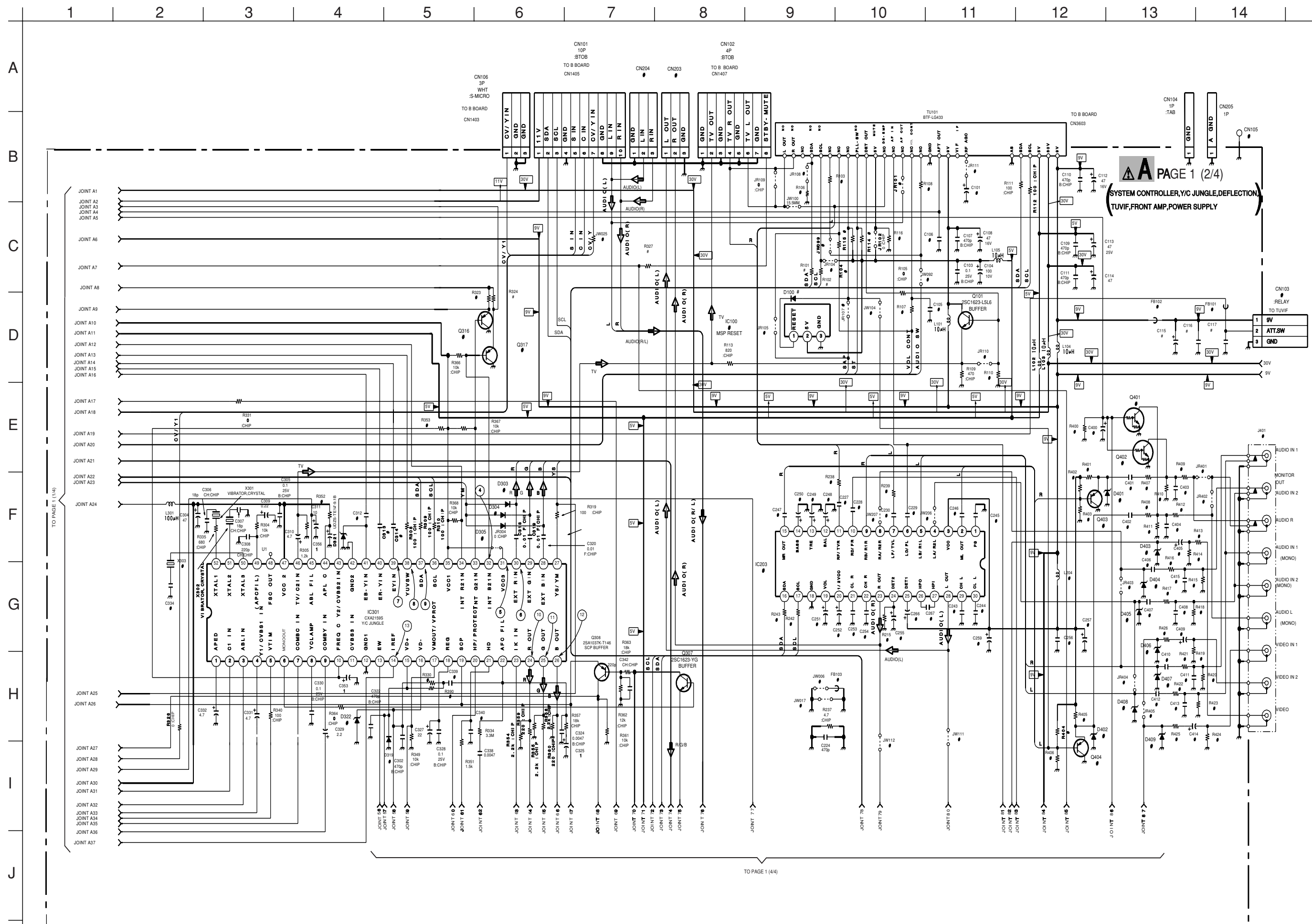
A [POWER SUPPLY,DEFLECTION,
AUDIO AND VIDEO PROCESSING,
AUDIO/VIDEO INPUT/OUTPUT AND MICROCOMPUTER]

– A Board –



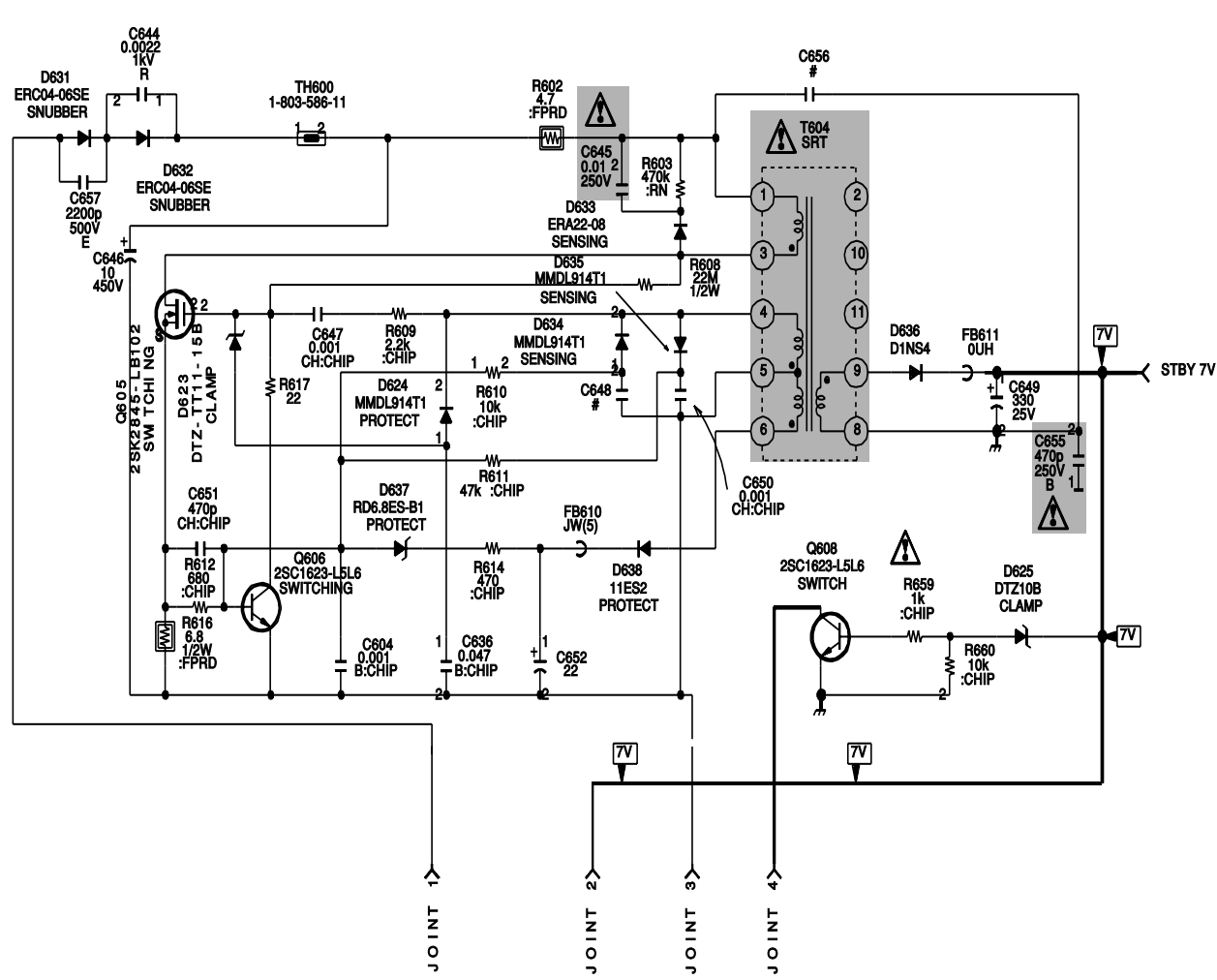
(1) A Board Schematic Diagram



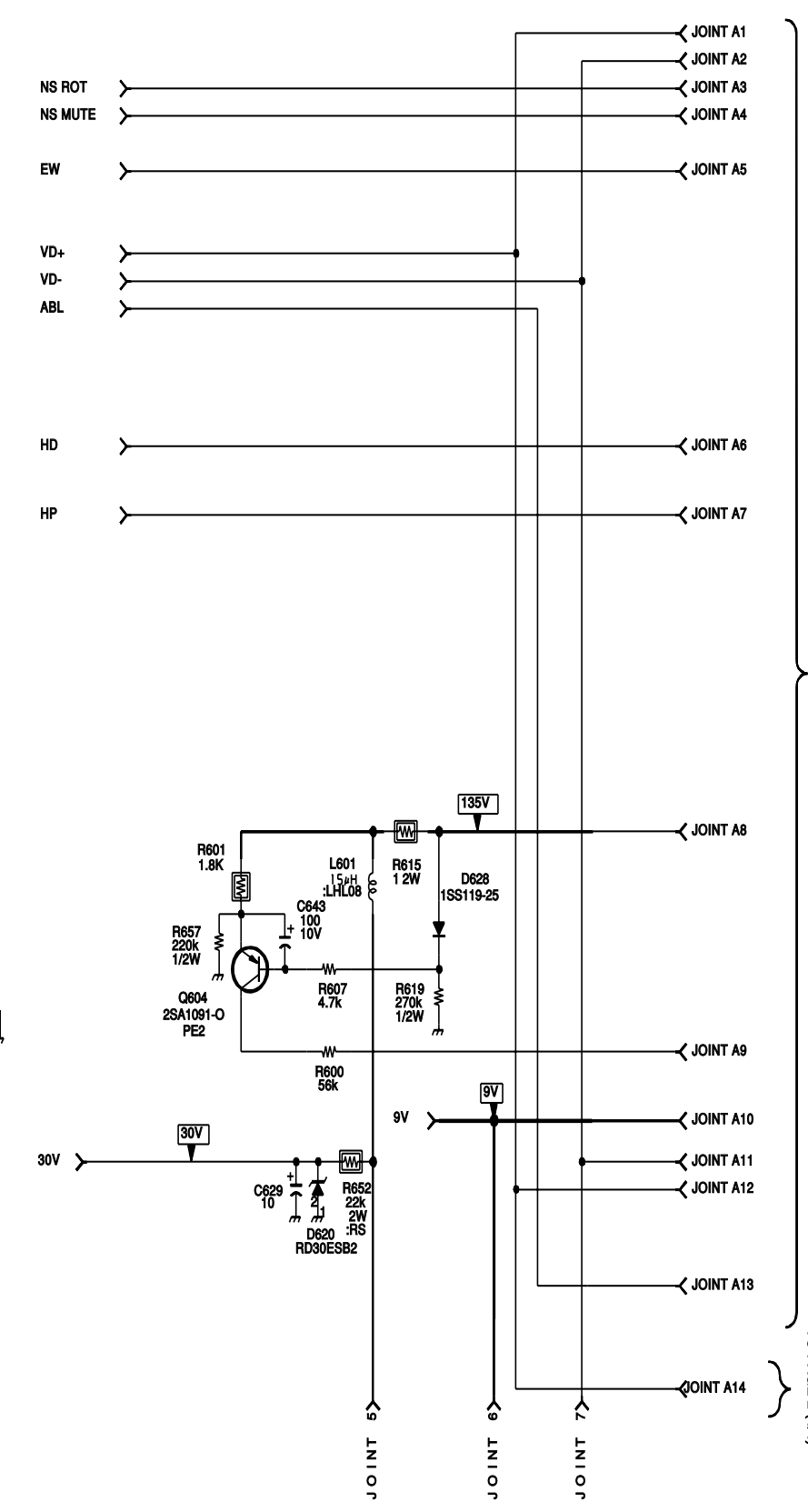




A **PAGE 2 (1/4)**
(SYSTEM CONTROLLER,Y/C JUNGLE,DEFLECTION,)
TUVIF,FRONT AMP,POWER SUPPLY



TO PAGE 2 (3/4)

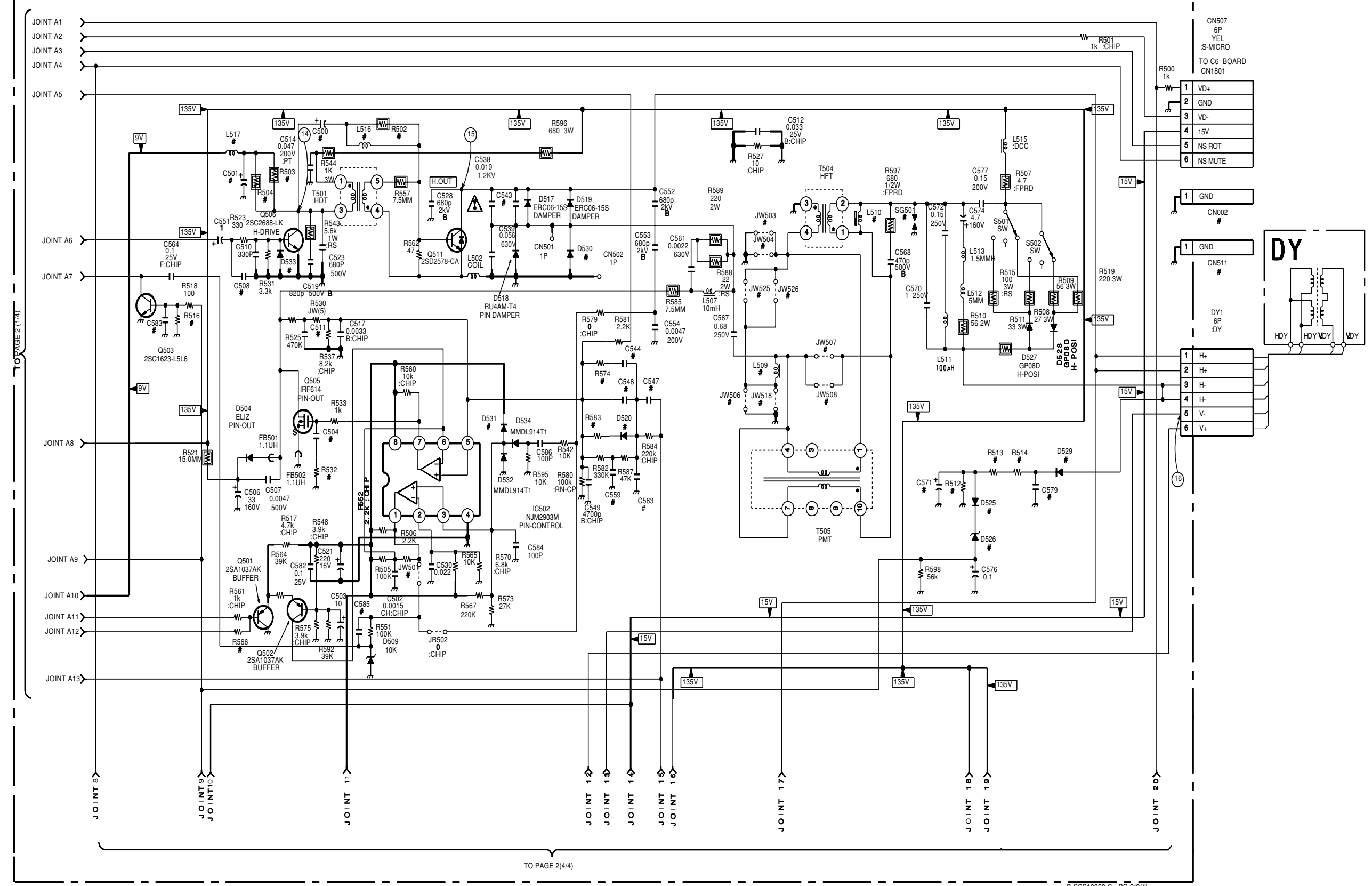


TO PAGE 2 (2/4)

TO PAGE 2 (4/4)

A
B
C
D
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G
H
I
J

A **PAGE 2 (2/4)**
(SYSTEM CONTROLLER, Y/C JUNGLE, DEFLECTION,
TUVIF, FRONT AMP, POWER SUPPLY)



TO PAGE 2(4/4)

B-SSS10323-S...PG 2(2/4)

1 2 3 4 5 6 7 8 9 10 11 12 13 14

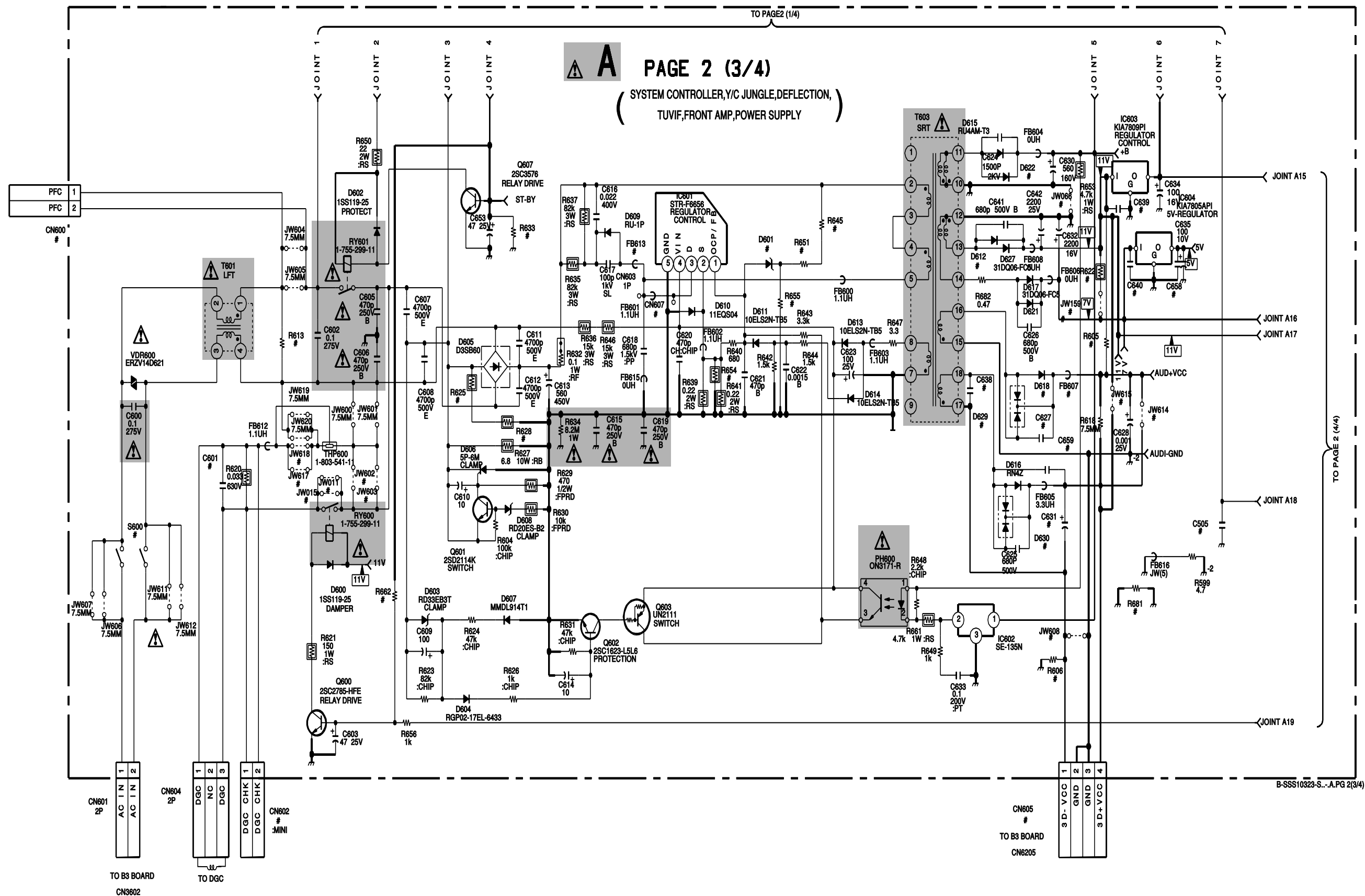
TO PAGE2 (1/4)



A

PAGE 2 (3/4)

(SYSTEM CONTROLLER,Y/C JUNGLE,DEFLECTION,
TUVIF,FRONT AMP,POWER SUPPLY)

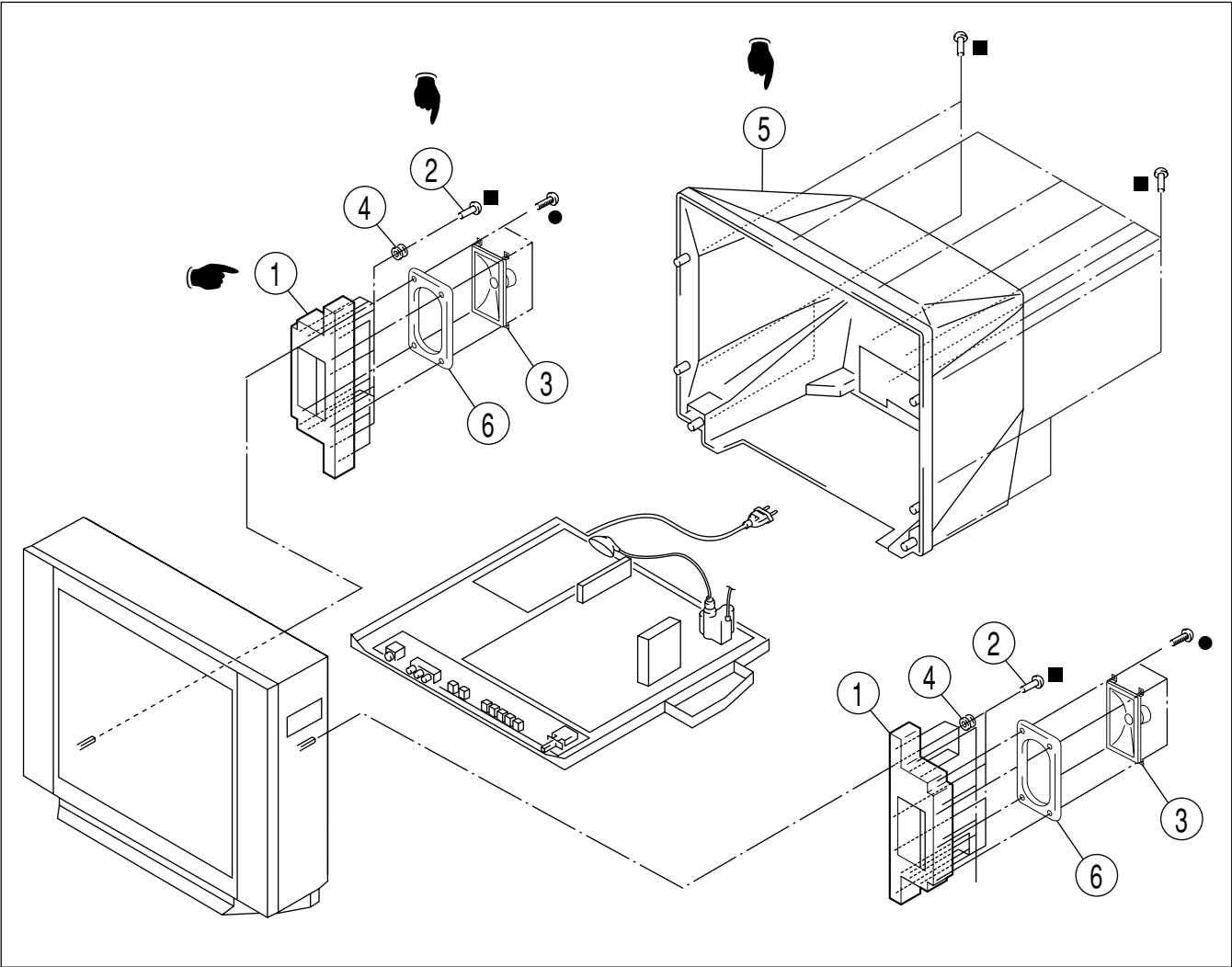


TO PAGE 2 (4/4)

B-SSS10323-S...A.PG 2(3/4)

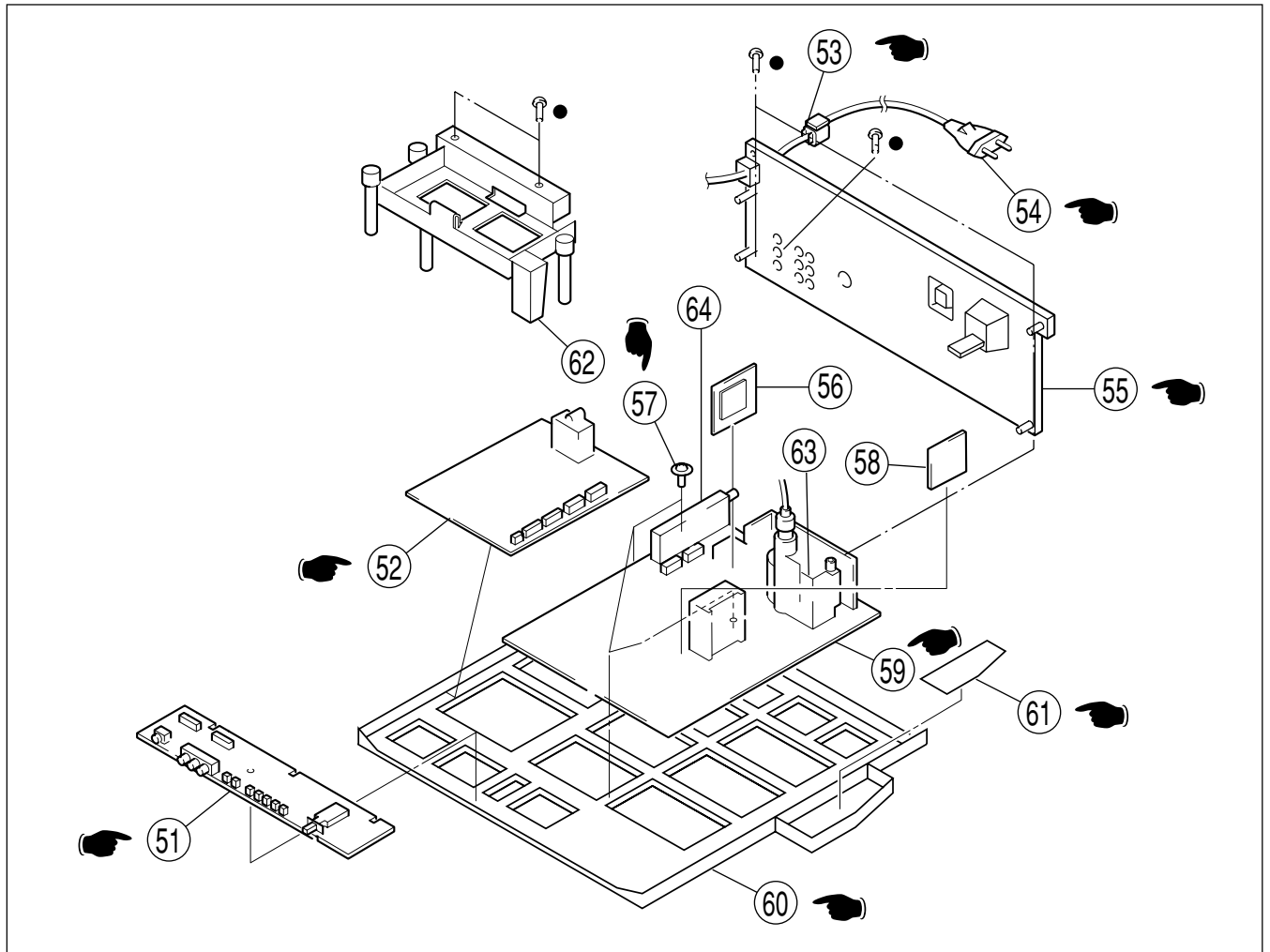
SECTION 6. EXPLODED VIEW

6.1. SPEAKER BRACKET
(see page 80)



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	* 4-071-045-02	BRACKET, SPEAKER	
2	4-054-981-02	SCREW, STEP TAPPING	
5	4-065-506-11	COVER, REAR	

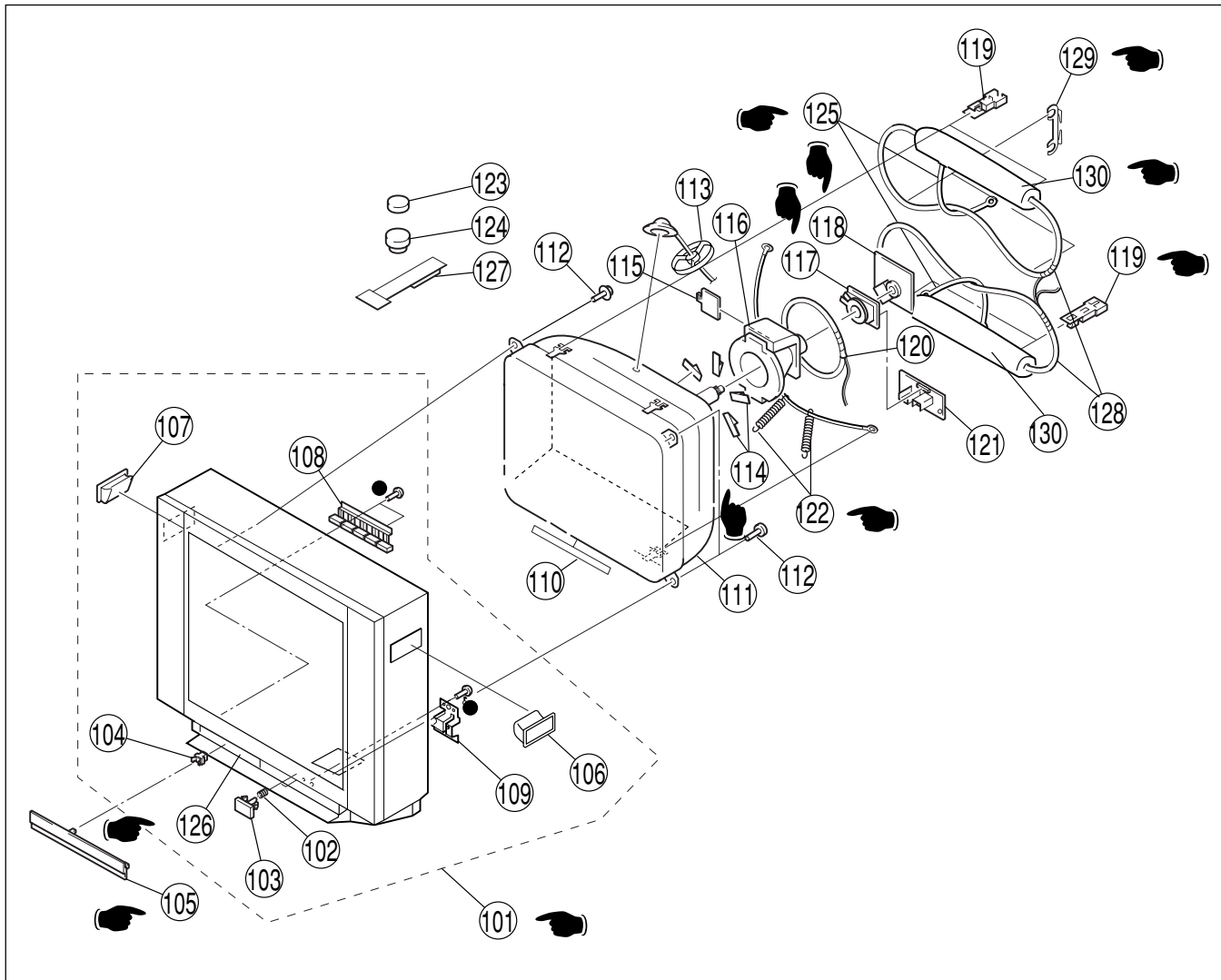
6.2. CHASSIS (see page 81)



REF. NO.	PART NO.	DESCRIPTION	REMARK
51	* A-1337-027-A	H2 BOARD MOUNTED (KV-XG29M50(THAILAND))	
52	* A-1136-180-A	B6 BOARD COMPLETE (KV-XG29M50(THAILAND))	
53	4-022-115-21	HOLDER, AC CORD	
54	△ 1-575-023-41	CORD, POWER (WITH CONNECTOR) 6A/250V (KV-XG29M50(THAILAND))	
55	* 4-066-684-72	BRACKET, TERMINAL	

REF. NO.	PART NO.	DESCRIPTION	REMARK
57	4-046-797-21	SCREW (3X12), (+)BVTAP	
59	* A-1300-158-A	A BOARD COMPLETE (KV-XG29M50(THAILAND))	
60	* 4-066-681-13	BRACKET, MAIN	
61	* A-1333-149-A	D3 BOARD MOUNTED (KV-XG29M50(THAILAND))	

6.3. PICTURE TUBE (see page 82)



REF. NO.	PART NO.	DESCRIPTION	REMARK
101	X-4039-835-1	BEZNET ASSY (KV-XG29M50 (THAILAND))	102-104, 106-109, 126
105	4-071-047-41	DOOR, CONTROL	
114	4-064-818-01	SPACER, DY	
117	8-453-011-41	NA299-C	
118	* A-1332-209-A	C6 BOARD MOUNTED (KV-XG29M50(THAILAND))	
119	* 4-062-970-12	CLIP (29RSN), DGC	
122	4-078-765-11	SPRING, TENSION	
125	4-079-376-01	BAND, DGC	
126	4-032-761-11	SHAFT (S), DOOR	
129	4-064-883-03	HOLDER, DGC	
130	* 4-063-935-21	CUSHION (50X550), DGC	

SECTION 7. ELECTRICAL PARTS LIST

(see page 83 ~ 89)

REF NO.	PART NO.	DESCRIPTION	REMARK			REF NO.	PART NO.	DESCRIPTION	REMARK		
	* A-1300-158-A	A BOARD COMPLETE *****				C220	1-126-942-61	ELECT	1000UF	20.00%	25V
						C221	1-126-964-11	ELECT	10UF	20.00%	50V
						C223	1-126-965-91	ELECT	22UF	20.00%	50V
	4-044-778-11	COVER, CAP TYPE CONDENSER				C224	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
	4-382-854-11	SCREW (M3X10), P. SW (+)				C225	1-109-982-11	CERAMIC CHIP	1UF	10.00%	10V
	4-382-854-21	SCREW (M3X14), P. SW (+)				C226	1-109-982-11	CERAMIC CHIP	1UF	10.00%	10V
		<CAPACITOR>				C264	1-164-505-11	CERAMIC CHIP	2.2UF		16V
						C265	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C004	1-163-001-11	CERAMIC CHIP	220PF	10.00%	50V	C301	1-126-941-11	ELECT	470UF	20.00%	25V
C005	1-163-001-11	CERAMIC CHIP	220PF	10.00%	50V	C302	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C006	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C303	1-126-964-11	ELECT	10UF	20.00%	50V
C007	1-126-947-11	ELECT	47UF	20.00%	16V	C304	1-126-967-11	ELECT	47UF	20.00%	50V
C013	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C305	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C014	1-126-947-11	ELECT	47UF	20.00%	25V	C306	1-163-233-91	CERAMIC CHIP	18PF	5.00%	50V
C015	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V	C307	1-163-233-91	CERAMIC CHIP	18PF	5.00%	50V
C016	1-163-243-11	CERAMIC CHIP	47PF	5.00%	50V	C308	1-163-259-91	CERAMIC CHIP	220PF	5.00%	50V
C017	1-163-247-91	CERAMIC CHIP	68PF	5.00%	50V	C309	1-137-378-11	MYLAR	0.22UF	5.00%	50V
C019	1-126-947-11	ELECT	47UF	20.00%	25V	C310	1-126-963-11	ELECT	4.7UF	20.00%	50V
C022	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V	C311	1-126-964-11	ELECT	10UF	20.00%	50V
C023	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V	C316	1-126-934-11	ELECT	220UF	20.00%	16V
C024	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V	C317	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C026	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C318	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C027	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C319	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C028	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V	C320	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C030	1-126-965-91	ELECT	22UF	20.00%	50V	C322	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C031	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C324	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C032	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V	C325	1-126-960-11	ELECT	1UF	20.00%	50V
C041	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V	C327	1-126-965-91	ELECT	22UF	20.00%	50V
C042	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V	C328	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C044	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V	C329	1-126-965-91	ELECT	22UF	20.00%	50V
C047	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V	C330	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C055	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V	C331	1-126-963-11	ELECT	4.7UF	20.00%	50V
C103	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C332	1-126-963-11	ELECT	4.7UF	20.00%	50V
C104	1-104-665-11	ELECT	100UF	20.00%	10V	C335	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C107	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V	C336	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C108	1-126-947-11	ELECT	47UF	20.00%	16V	C337	1-126-961-11	ELECT	2.2UF	20.00%	50V
C109	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V	C338	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C110	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V	C341	1-115-340-11	CERAMIC CHIP	0.22UF	10.00%	25V
C111	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V	C342	1-163-259-91	CERAMIC CHIP	220PF	5.00%	50V
C112	1-126-947-11	ELECT	47UF	20.00%	16V	C347	1-126-933-11	ELECT	100UF	20.00%	16V
C113	1-126-947-11	ELECT	47UF	20.00%	25V	C348	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C114	1-126-967-11	ELECT	47UF	20.00%	50V	C349	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C202	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C350	1-216-295-91	SHORT	0		
C203	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C351	1-126-964-11	ELECT	10UF	20.00%	50V
C204	1-136-161-00	FILM	0.047UF	5.00%	50V	C352	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C205	1-164-182-11	CERAMIC CHIP	0.0033UF	10.00%	50V	C353	1-126-960-11	ELECT	1UF	20.00%	50V
C206	1-164-182-11	CERAMIC CHIP	0.0033UF	10.00%	50V	C356	1-126-960-11	ELECT	1UF	20.00%	50V
C207	1-136-161-00	FILM	0.047UF	5.00%	50V	C357	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C208	1-126-965-91	ELECT	22UF	20.00%	50V	C502	1-163-145-00	CERAMIC CHIP	0.0015UF	5.00%	50V
C209	1-126-965-91	ELECT	22UF	20.00%	50V	C503	1-126-964-11	ELECT	10UF	20.00%	50V
C210	1-126-933-11	ELECT	100UF	20.00%	16V	C506	1-107-638-11	ELECT	33UF	20.00%	160V
C211	1-126-941-11	ELECT	470UF	20.00%	25V	C507	1-161-830-00	CERAMIC	0.0047UF		500V
C212	1-126-933-11	ELECT	100UF	20.00%	16V	C510	1-102-112-00	CERAMIC	330PF	10.00%	50V
C213	1-126-933-11	ELECT	100UF	20.00%	16V	C512	1-163-989-11	CERAMIC CHIP	0.033UF	10.00%	25V
C214	1-126-942-61	ELECT	1000UF	20.00%	25V	C513	1-163-263-11	CERAMIC CHIP	330PF	5.00%	50V
C215	1-126-942-61	ELECT	1000UF	20.00%	25V	C514	1-106-383-00	MYLAR	0.047UF	10.00%	200V
C216	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C517	1-164-182-11	CERAMIC CHIP	0.0033UF	10.00%	50V
C217	1-126-964-11	ELECT	10UF	20.00%	50V	C518	1-104-665-11	ELECT	100UF	20.00%	10V
C218	1-136-167-00	FILM	0.15UF	5.00%	50V	C519	1-102-212-00	CERAMIC	820PF	10.00%	500V
C219	1-136-167-00	FILM	0.15UF	5.00%	50V	C521	1-126-934-11	ELECT	220UF	20.00%	16V

REF NO.	PART NO.	DESCRIPTION	REMARK		
C522	1-126-933-11	ELECT	100UF	20.00%	16V
C523	1-102-002-00	CERAMIC	680PF	10.00%	500V
C524	1-126-967-11	ELECT	47UF	20.00%	50V
C526	1-130-495-00	MYLAR	0.1UF	5.00%	50V
C527	1-102-820-00	CERAMIC	330PF	5.00%	50V
C528	1-162-116-00	CERAMIC	680PF	10.00%	2KV
C530	1-137-372-11	MYLAR	0.022UF	5.00%	50V
C531	1-107-903-11	ELECT	2.2UF	20.00%	50V
C532	1-126-941-11	ELECT	470UF	20.00%	25V
C533	1-126-941-11	ELECT	470UF	20.00%	25V
C534	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C536	1-136-165-00	FILM	0.1UF	5.00%	50V
C537	1-126-969-11	ELECT	220UF	20.00%	50V
C538	1-127-717-11	FILM	19000PF	3%	1.2KV
C539	1-129-723-00	FILM	0.056UF	5.00%	630V
C540	1-136-171-00	FILM	0.33UF	5.00%	50V
C546	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C549	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C550	1-106-220-00	MYLAR	0.1UF	10.00%	100V
C551	1-126-960-11	ELECT	1UF	20.00%	50V
C552	1-162-116-00	CERAMIC	680PF	10.00%	2KV
C553	1-162-116-00	CERAMIC	680PF	10.00%	2KV
C554	1-137-417-11	MYLAR	0.0047UF	10.00%	200V
C556	1-126-941-11	ELECT	470UF	20.00%	25V
C557	1-126-941-11	ELECT	470UF	20.00%	25V
C558	1-123-024-21	ELECT	33UF		160V
C560	1-102-228-00	CERAMIC	470PF	10.00%	500V
C561	1-129-898-00	FILM	0.0022UF	5.00%	630V
C562	1-102-228-00	CERAMIC	470PF	10.00%	500V
C564	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C565	1-107-655-11	ELECT	47UF	20.00%	250V
C566	1-102-244-00	CERAMIC	220PF	10.00%	500V
C567	1-115-520-11	FILM	0.68UF	5.00%	250V
C568	1-102-228-00	CERAMIC	470PF	10.00%	500V
C570	1-115-522-11	FILM	1UF	5.00%	250V
C572	1-117-661-11	FILM	0.15UF	5.00%	250V
C573	1-106-387-00	MYLAR	0.068UF	10.00%	200V
C574	1-104-709-11	ELECT	4.7UF		160V
C576	1-130-495-00	MYLAR	0.1UF	5.00%	50V
C577	1-106-395-00	MYLAR	0.15UF	10.00%	200V
C582	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C584	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C586	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C600	△ 1-104-705-11	MYLAR	0.1UF	20.00%	250V
C602	△ 1-104-705-11	MYLAR	0.1UF	20.00%	250V
C603	1-126-947-11	ELECT	47UF	20.00%	25V
C604	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C605	△ 1-119-886-51	CERAMIC	470PF	10.00%	250V
C606	△ 1-119-886-51	CERAMIC	470PF	10.00%	250V
C607	1-161-830-00	CERAMIC	0.0047UF	99%	500V
C608	1-161-830-00	CERAMIC	0.0047UF	99%	500V
C609	1-126-968-11	ELECT	100UF	20.00%	50V
C610	1-126-964-11	ELECT	10UF	20.00%	50V
C611	1-161-830-00	CERAMIC	0.0047UF	99%	500V
C612	1-161-830-00	CERAMIC	0.0047UF	99%	500V
C613	1-125-906-11	ELECT	560UF	20.00%	450V
C614	1-126-964-11	ELECT	10UF	20.00%	50V
C615	△ 1-119-886-51	CERAMIC	470PF	10.00%	250V

REF NO.	PART NO.	DESCRIPTION	REMARK		
C616	1-130-202-00	FILM	0.022UF	5.00%	400V
C617	1-107-792-11	CERAMIC	100PF	5.00%	1KV
C618	1-125-893-11	FILM	680PF	3.00%	1.5KV
C619	△ 1-119-886-51	CERAMIC	470PF	10.00%	250V
C620	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C621	1-102-114-00	CERAMIC	470PF	10.00%	50V
C622	1-102-119-00	CERAMIC	0.0015UF	10.00%	50V
C623	1-104-665-11	ELECT	100UF	20.00%	25V
C624	1-125-772-11	CERAMIC	1500PF	10.00%	2KV
C625	1-102-002-00	CERAMIC	680PF	10.00%	500V
C626	1-102-002-00	CERAMIC	680PF	10.00%	500V
C628	1-126-942-61	ELECT	1000UF	20.00%	25V
C629	1-126-964-11	ELECT	10UF	20.00%	50V
C630	1-125-494-11	ELECT(BLOCK)	560UF	20.00%	160V
C632	1-128-339-11	ELECT	2200UF	20.00%	16V
C633	1-104-999-11	MYLAR	0.1UF	10.00%	200V
C634	1-126-933-11	ELECT	100UF	20.00%	16V
C635	1-104-665-11	ELECT	100UF	20.00%	10V
C636	1-104-760-11	CERAMIC CHIP	0.047UF	10.00%	50V
C641	1-102-002-00	CERAMIC	680PF	10.00%	500V
C642	1-126-943-11	ELECT	2200UF	20.00%	25V
C643	1-104-665-11	ELECT	100UF	20.00%	10V
C644	1-104-331-11	CERAMIC	0.0022UF	10.00%	1KV
C645	1-137-605-11	MYLAR	0.01UF	10.00%	250V
C646	1-107-679-91	ELECT	10UF	20.00%	450V
C647	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C649	1-126-940-11	ELECT	330UF	20.00%	25V
C650	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C651	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C652	1-126-965-91	ELECT	22UF	20.00%	50V
C653	1-126-947-11	ELECT	47UF	20.00%	25V
C655	△ 1-119-886-51	CERAMIC	470PF	10.00%	250V
C657	1-101-821-00	CERAMIC	0.0022UF		500V
C901	1-136-153-00	FILM	0.01UF	5.00%	50V
C902	1-136-153-00	FILM	0.01UF	5.00%	50V
C912	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C913	1-104-665-11	ELECT	100UF	20.00%	10V
<CONNECTOR>					
CN101	* 1-764-333-11	PLUG, CONNECTOR 10P			
CN102	* 1-564-507-11	PLUG, CONNECTOR 4P			
CN104	1-695-915-11	TAB (CONTACT)			
CN106	* 1-564-506-11	PLUG, CONNECTOR 3P			
CN202	* 1-508-847-00	PIN, CONNECTOR 4P			
CN205	* 1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P			
CN305	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN501	* 1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P			
CN502	* 1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P			
CN503	* 1-564-510-11	PLUG, CONNECTOR 7P			
CN504	1-695-915-11	TAB (CONTACT)			
CN505	* 1-564-508-11	PLUG, CONNECTOR 5P			
CN507	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN601	1-580-843-11	PIN, CONNECTOR (POWER)			
CN603	* 1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P			
CN604	* 1-691-134-11	PIN, CONNECTOR (PC BOARD) 2P			
CN901	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN904	* 1-564-512-11	PLUG, CONNECTOR 9P			

REF NO.	PART NO.	DESCRIPTION	REMARK				REF NO.	PART NO.	DESCRIPTION	REMARK			
		<DIODE>											
D001	8-719-988-61	ISS355TE-17					D625	8-719-977-28	DTZ10B				
D005	8-719-988-61	ISS355TE-17					D625	8-719-158-39	RD10S-B				
D006	8-719-988-61	ISS355TE-17					D627	8-719-073-84	31DQ06-FC5				
D203	8-719-914-42	DA204K					D628	8-719-911-19	ISS119-25				
D300	1-216-295-91	SHORT	0				D631	8-719-068-00	ERC04-06SE				
							D632	8-719-068-00	ERC04-06SE				
D301	8-719-988-61	ISS355TE-17					D633	8-719-948-45	ERA22-08				
D306	8-719-988-61	ISS355TE-17					D634	8-719-988-61	ISS355TE-17				
D307	8-719-988-61	ISS355TE-17					D635	8-719-988-61	ISS355TE-17				
D308	8-719-988-61	ISS355TE-17					D636	8-719-510-02	D1NS4				
D309	8-719-069-54	UDZSTE-175.1B					D637	8-719-109-96	RD6.8ES-B1				
							D638	8-719-510-48	D1N20R				
D311	8-719-988-61	ISS355TE-17							<CONNECTOR>				
D312	8-719-988-61	ISS355TE-17					DY1	* 1-580-798-11	CONNECTOR PIN (DY) 6P				
D313	8-719-988-61	ISS355TE-17							<FERRITE BEAD>				
D314	8-719-988-61	ISS355TE-17					FB300	1-410-397-21	FERRITE	1.1UH			
D315	8-719-988-61	ISS355TE-17					FB501	1-410-397-21	FERRITE	1.1UH			
D316	8-719-037-06	RD7.5SB1-T1					FB502	1-410-397-21	FERRITE	1.1UH			
D320	8-719-069-60	UDZSTE-179.1B					FB600	1-410-397-21	FERRITE	1.1UH			
D321	8-719-069-60	UDZSTE-179.1B					FB601	1-410-397-21	FERRITE	1.1UH			
D504	8-719-302-43	EL1Z					FB602	1-410-397-21	FERRITE	1.1UH			
D505	8-719-988-61	ISS355TE-17					FB603	1-410-397-21	FERRITE	1.1UH			
D506	8-719-911-19	ISS119-25					FB604	1-412-911-31	FERRITE	0UH			
D507	8-719-988-61	ISS355TE-17					FB605	1-406-656-21	INDUCTOR	3.3UH			
D508	8-719-988-61	ISS355TE-17					FB606	1-412-911-31	FERRITE	0UH			
D509	1-216-073-91	RES-CHIP	10K	5%	1/10W		FB608	1-412-911-31	FERRITE	0UH			
D510	8-719-988-61	ISS355TE-17					FB611	1-410-397-21	FERRITE	1.1UH			
D511	8-719-988-61	ISS355TE-17					FB612	1-410-397-21	FERRITE	1.1UH			
D512	8-719-988-61	ISS355TE-17					FB613	1-410-397-21	FERRITE	1.1UH			
D513	8-719-908-03	GP08D					FB615	1-412-911-31	FERRITE	0UH			
D517	8-719-312-71	RS3FS							<IC>				
D518	8-719-074-35	RU4AM-T4					IC001	8-752-917-84	IC CXP86449-632S				
D519	8-719-312-71	RS3FS					IC002	8-759-371-21	MM1319AFBE				
D521	8-719-302-43	EL1Z					IC003	8-759-672-78	M24C08-BN6(A)				
D522	8-719-028-45	D2L20U					IC201	8-759-336-30	TA8223K				
D523	8-719-302-43	EL1Z					IC301	8-752-095-72	CXA2159S				
D527	8-719-908-03	GP08D					IC302	8-759-672-27	TDA9183T				
D528	8-719-908-03	GP08D					IC502	8-759-700-07	NJM2903M				
D532	8-719-988-61	ISS355TE-17					IC503	8-759-980-58	TDA8172				
D534	8-719-988-61	ISS355TE-17					IC601	8-749-014-48	STR-F6656				
D600	8-719-911-19	ISS119-25					IC602	8-749-920-61	SE-135N				
D602	8-719-911-19	ISS119-25					IC603	8-759-701-59	NJM78M09FA				
D603	8-719-150-92	RD33EB3T					IC604	8-759-231-53	TA7805S				
D604	8-719-028-72	RGP02-17EL-6433							<CHIP CONDUCTOR>				
D605	8-719-510-22	D3SB60					JR001	1-216-295-91	SHORT	0			
D606	8-719-108-18	5P-6M					JR002	1-216-295-91	SHORT	0			
D607	8-719-988-61	ISS355TE-17					JR003	1-216-295-91	SHORT	0			
D608	8-719-110-53	RD20ES-B2					JR004	1-216-295-91	SHORT	0			
D609	8-719-311-31	RU-1P					JR006	1-216-295-91	SHORT	0			
D610	8-719-210-21	11EQS04					JR007	1-216-295-91	SHORT	0			
D610	8-719-043-76	AK04V0					JR008	1-216-295-91	SHORT	0			
D611	8-719-046-74	DIODE AU-01Z-V1											
D613	8-719-046-74	DIODE AU-01Z-V1											
D614	8-719-046-74	DIODE AU-01Z-V1											
D615	8-719-312-10	RU4AM-T3											
D616	8-719-067-18	RN4Z											
D617	8-719-073-84	31DQ06-FC5											
D620	8-719-110-72	RD30ESB2											
D623	8-719-978-65	DTZ-TT11-15B											
D624	8-719-988-61	ISS355TE-17											

REF NO.	PART NO.	DESCRIPTION	REMARK
JR010	1-216-295-91	SHORT	0
JR012	1-216-295-91	SHORT	0
JR014	1-216-295-91	SHORT	0
JR015	1-216-295-91	SHORT	0
JR016	1-216-295-91	SHORT	0
JR019	1-216-295-91	SHORT	0
JR020	1-216-295-91	SHORT	0
JR022	1-216-295-91	SHORT	0
JR023	1-216-295-91	SHORT	0
JR024	1-216-295-91	SHORT	0
JR025	1-216-295-91	SHORT	0
JR028	1-216-295-91	SHORT	0
JR102	1-216-295-91	SHORT	0
JR109	1-216-295-91	SHORT	0
JR202	1-216-295-91	SHORT	0
JR204	1-216-295-91	SHORT	0
JR214	1-216-295-91	SHORT	0
JR300	1-216-295-91	SHORT	0
JR304	1-216-295-91	SHORT	0
JR308	1-216-295-91	SHORT	0
JR311	1-216-295-91	SHORT	0
JR312	1-216-295-91	SHORT	0
JR400	1-216-295-91	SHORT	0
JR500	1-216-295-91	SHORT	0
JR501	1-216-295-91	SHORT	0
JR502	1-216-295-91	SHORT	0
JR503	1-216-295-91	SHORT	0
JR505	1-216-295-91	SHORT	0
JR600	1-216-295-91	SHORT	0
<COIL>			
L002	1-414-856-11	INDUCTOR	10UH
L003	1-414-180-11	INDUCTOR	3.3UH
L005	1-414-233-22	FERRITE	0UH
L101	1-414-856-11	INDUCTOR	10UH
L102	1-414-856-11	INDUCTOR	10UH
L103	1-414-856-11	INDUCTOR	10UH
L104	1-414-856-11	INDUCTOR	10UH
L105	1-414-856-11	INDUCTOR	10UH
L301	1-414-189-31	INDUCTOR	100UH
L302	1-414-185-41	INDUCTOR	22UH
L303	1-414-189-31	INDUCTOR	100UH
L304	1-414-189-31	INDUCTOR	100UH
L501	1-412-525-31	INDUCTOR	10UH
L502	1-422-613-11	COIL, AIR CORE	
L503	1-412-525-31	INDUCTOR	10UH
L504	1-412-525-31	INDUCTOR	10UH
L507	1-459-111-00	INDUCTOR	10MH
L511	1-406-977-21	INDUCTOR	100UH
L513	1-412-551-31	INDUCTOR	1.5MH
L515	1-459-104-00	COIL, WITH CORE	
L518	1-414-187-11	INDUCTOR	47UH
L601	1-412-527-11	INDUCTOR	15UH
L901	1-414-856-11	INDUCTOR	10UH
L902	1-414-856-11	INDUCTOR	10UH
L905	1-414-856-11	INDUCTOR	10UH

REF NO.	PART NO.	DESCRIPTION	REMARK
<PHOTO COUPLER>			
PH600	△ 8-749-924-35	ON3171-R	
<IC LINK>			
PS200	1-532-675-21	LINK, IC 1.5A/150V	
<TRANSISTOR>			
Q002	8-729-230-49	2SC2712-YG	
Q101	8-729-230-49	2SC2712-YG	
Q201	8-729-424-67	UN2216	
Q202	8-729-424-67	UN2216	
Q205	8-729-421-19	UN2213	
Q206	8-729-421-19	UN2213	
Q207	8-729-421-19	UN2213	
Q301	8-729-216-22	2SA1162-G	
Q302	8-729-230-49	2SC2712-YG	
Q303	8-729-216-22	2SA1162-G	
Q305	8-729-216-22	2SA1162-G	
Q306	8-729-230-49	2SC2712-YG	
Q307	8-729-230-49	2SC2712-YG	
Q308	8-729-216-22	2SA1162-G	
Q312	8-729-216-22	2SA1162-G	
Q313	8-729-230-49	2SC2712-YG	
Q314	8-729-216-22	2SA1162-G	
Q315	8-729-421-19	UN2213	
Q501	8-729-216-22	2SA1162-G	
Q502	8-729-216-22	2SA1162-G	
Q503	8-729-230-49	2SC2712-YG	
Q505	8-729-931-45	IRF614	
Q506	8-729-119-80	2SC2688-LK	
Q507	8-729-216-22	2SA1162-G	
Q509	8-729-230-49	2SC2712-YG	
Q511	8-729-048-07	2SD2578-CA	
Q600	8-729-119-78	2SC2785-HFE	
Q601	8-729-023-22	2SD2114K	
Q602	8-729-230-49	2SC2712-YG	
Q603	8-729-424-08	UN2111	
Q604	8-729-200-17	2SA1091-O	
Q605	8-729-044-30	2SK2845-LB102	
Q606	8-729-230-49	2SC2712-YG	
Q607	8-729-823-22	2SC3576	
Q608	8-729-230-49	2SC2712-YG	
<RESISTOR>			
R001	1-414-233-22	FERRITE	0UH
R002	1-216-025-11	RES-CHIP	100 5% 1/10W
R003	1-216-073-91	RES-CHIP	10K 5% 1/10W
R004	1-216-025-11	RES-CHIP	100 5% 1/10W
R005	1-216-025-11	RES-CHIP	100 5% 1/10W
R008	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R010	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R011	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R012	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R013	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R014	1-216-025-11	RES-CHIP	100 5% 1/10W
R015	1-216-025-11	RES-CHIP	100 5% 1/10W

REF NO.	PART NO.	DESCRIPTION			REMARK	REF NO.	PART NO.	DESCRIPTION			REMARK
R017	1-216-049-11	RES-CHIP	1K	5%	1/10W	R234	1-249-389-11	CARBON	4.7	5%	1/4W
R018	1-216-033-00	RES-CHIP	220	5%	1/10W	R237	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R019	1-216-073-91	RES-CHIP	10K	5%	1/10W	R301	1-216-073-91	RES-CHIP	10K	5%	1/10W
R020	1-216-045-00	RES-CHIP	680	5%	1/10W	R302	1-216-295-91	SHORT	0		
R021	1-216-073-91	RES-CHIP	10K	5%	1/10W	R303	1-216-049-11	RES-CHIP	1K	5%	1/10W
R022	1-216-025-11	RES-CHIP	100	5%	1/10W	R304	1-216-073-91	RES-CHIP	10K	5%	1/10W
R024	1-216-063-91	RES-CHIP	3.9K	5%	1/10W	R305	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R025	1-216-063-91	RES-CHIP	3.9K	5%	1/10W	R306	1-216-085-91	RES-CHIP	33K	5%	1/10W
R026	1-216-063-91	RES-CHIP	3.9K	5%	1/10W	R308	1-216-025-11	RES-CHIP	100	5%	1/10W
R027	1-216-073-91	RES-CHIP	10K	5%	1/10W	R309	1-216-025-11	RES-CHIP	100	5%	1/10W
R029	1-216-049-11	RES-CHIP	1K	5%	1/10W	R310	1-216-025-11	RES-CHIP	100	5%	1/10W
R031	1-216-049-11	RES-CHIP	1K	5%	1/10W	R311	1-216-041-00	RES-CHIP	470	5%	1/10W
R034	1-216-049-11	RES-CHIP	1K	5%	1/10W	R312	1-216-039-00	RES-CHIP	390	5%	1/10W
R035	1-216-025-11	RES-CHIP	100	5%	1/10W	R313	1-216-037-00	RES-CHIP	330	5%	1/10W
R036	1-216-025-11	RES-CHIP	100	5%	1/10W	R314	1-216-083-00	RES-CHIP	27K	5%	1/10W
R037	1-216-025-11	RES-CHIP	100	5%	1/10W	R316	1-216-037-00	RES-CHIP	330	5%	1/10W
R040	1-216-025-11	RES-CHIP	100	5%	1/10W	R317	1-216-091-00	RES-CHIP	56K	5%	1/10W
R041	1-216-025-11	RES-CHIP	100	5%	1/10W	R318	1-216-039-00	RES-CHIP	390	5%	1/10W
R042	1-216-295-91	SHORT	0			R319	1-216-025-11	RES-CHIP	100	5%	1/10W
R043	1-216-049-11	RES-CHIP	1K	5%	1/10W	R320	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R044	1-216-025-11	RES-CHIP	100	5%	1/10W	R321	1-216-073-91	RES-CHIP	10K	5%	1/10W
R045	1-414-233-22	FERRITE	0UH			R322	1-216-033-00	RES-CHIP	220	5%	1/10W
R046	1-216-049-11	RES-CHIP	1K	5%	1/10W	R325	1-216-041-00	RES-CHIP	470	5%	1/10W
R047	1-414-233-22	FERRITE	0UH			R326	1-216-295-91	SHORT	0		
R048	1-216-073-91	RES-CHIP	10K	5%	1/10W	R331	1-216-295-91	SHORT	0		
R050	1-216-073-91	RES-CHIP	10K	5%	1/10W	R332	1-216-033-00	RES-CHIP	220	5%	1/10W
R053	1-216-049-11	RES-CHIP	1K	5%	1/10W	R333	1-216-083-00	RES-CHIP	27K	5%	1/10W
R058	1-216-295-91	SHORT	0			R334	1-216-133-91	RES-CHIP	3.3M	5%	1/10W
R059	1-216-295-91	SHORT	0			R335	1-216-045-00	RES-CHIP	680	5%	1/10W
R060	1-216-295-91	SHORT	0			R338	1-216-037-00	RES-CHIP	330	5%	1/10W
R061	1-216-033-00	RES-CHIP	220	5%	1/10W	R340	1-216-025-11	RES-CHIP	100	5%	1/10W
R062	1-216-041-00	RES-CHIP	470	5%	1/10W	R345	1-216-081-00	RES-CHIP	22K	5%	1/10W
R063	1-216-041-00	RES-CHIP	470	5%	1/10W	R348	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R064	1-216-041-00	RES-CHIP	470	5%	1/10W	R349	1-216-073-91	RES-CHIP	10K	5%	1/10W
R065	1-216-041-00	RES-CHIP	470	5%	1/10W	R350	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R066	1-216-049-11	RES-CHIP	1K	5%	1/10W	R351	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R067	1-216-049-11	RES-CHIP	1K	5%	1/10W	R354	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R068	1-216-041-00	RES-CHIP	470	5%	1/10W	R355	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R105	1-216-295-91	SHORT	0			R356	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R109	1-216-041-00	RES-CHIP	470	5%	1/10W	R357	1-216-079-00	RES-CHIP	18K	5%	1/10W
R111	1-216-025-11	RES-CHIP	100	5%	1/10W	R358	1-216-049-11	RES-CHIP	1K	5%	1/10W
R112	1-216-025-11	RES-CHIP	100	5%	1/10W	R359	1-216-033-00	RES-CHIP	220	5%	1/10W
R113	1-216-047-91	RES-CHIP	820	5%	1/10W	R360	1-216-033-00	RES-CHIP	220	5%	1/10W
R202	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R361	1-216-073-91	RES-CHIP	10K	5%	1/10W
R203	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R362	1-216-075-00	RES-CHIP	12K	5%	1/10W
R204	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R363	1-216-079-00	RES-CHIP	18K	5%	1/10W
R205	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R364	1-216-295-91	SHORT	0		
R206	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R365	1-216-033-00	RES-CHIP	220	5%	1/10W
R207	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R366	1-216-073-91	RES-CHIP	10K	5%	1/10W
R208	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R367	1-216-073-91	RES-CHIP	10K	5%	1/10W
R209	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R368	1-216-073-91	RES-CHIP	10K	5%	1/10W
R210	1-216-031-00	RES-CHIP	180	5%	1/10W	R370	1-216-033-00	RES-CHIP	220	5%	1/10W
R212	1-216-031-00	RES-CHIP	180	5%	1/10W	R371	1-216-083-00	RES-CHIP	27K	5%	1/10W
R225	1-216-033-00	RES-CHIP	220	5%	1/10W	R372	1-216-091-00	RES-CHIP	56K	5%	1/10W
R226	1-216-033-00	RES-CHIP	220	5%	1/10W	R376	1-216-081-00	RES-CHIP	22K	5%	1/10W
R227	1-216-033-00	RES-CHIP	220	5%	1/10W	R377	1-216-121-11	RES-CHIP	1M	5%	1/10W
R228	1-249-389-11	CARBON	4.7	5%	1/4W	R378	1-216-041-00	RES-CHIP	470	5%	1/10W
R229	1-216-073-91	RES-CHIP	10K	5%	1/10W	R379	1-218-179-11	RES-CHIP	10M	5%	1/10W
R230	1-216-073-91	RES-CHIP	10K	5%	1/10W	R380	1-216-041-00	RES-CHIP	470	5%	1/10W
R231	1-216-295-91	SHORT	0			R383	1-216-049-11	RES-CHIP	1K	5%	1/10W

REF NO.	PART NO.	DESCRIPTION	REMARK				REF NO.	PART NO.	DESCRIPTION	REMARK		
R384	1-216-295-91	SHORT	0				R577	1-215-913-11	METAL OXIDE	220	5%	3W
R385	1-216-033-00	RES-CHIP	220	5%	1/10W		R578	1-216-369-00	METAL OXIDE	1	5%	2W
R391	1-216-049-11	RES-CHIP	1K	5%	1/10W		R579	1-216-295-91	SHORT	0		
R500	1-249-417-11	CARBON	1K	5%	1/4W		R580	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R501	1-216-049-11	RES-CHIP	1K	5%	1/10W		R581	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R505	1-216-699-91	METAL CHIP	100K	0.5%	1/10W		R582	1-208-842-11	METAL CHIP	330K	0.5%	1/10W
R506	1-216-081-00	RES-CHIP	22K	5%	1/10W		R584	1-218-760-11	METAL CHIP	220K	0.5%	1/10W
R507	1-249-389-11	CARBON	4.7	5%	1/4W		R587	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R508	1-216-471-11	METAL OXIDE	27	5%	3W		R588	1-215-888-00	METAL OXIDE	220	5%	2W
R509	1-216-473-11	METAL OXIDE	56	5%	3W		R589	1-215-888-00	METAL OXIDE	220	5%	2W
R510	1-216-449-11	METAL OXIDE	56	5%	2W		R590	1-215-465-00	METAL	68K	1%	1/4W
R511	1-215-908-00	METAL OXIDE	33	5%	3W		R591	1-260-288-11	CARBON	0.47	5%	1/2W
R515	1-215-911-11	METAL OXIDE	100	5%	3W		R592	1-208-820-11	METAL CHIP	39K	0.5%	1/10W
R517	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W		R593	1-260-288-11	CARBON	0.47	5%	1/2W
R518	1-247-807-31	CARBON	100	5%	1/4W		R594	1-260-288-11	CARBON	0.47	5%	1/2W
R519	1-215-913-11	METAL OXIDE	220	5%	3W		R595	1-216-073-91	RES-CHIP	10K	5%	1/10W
R520	1-215-445-00	METAL	10K	1%	1/4W		R596	1-215-916-00	METAL OXIDE	680	5%	3W
R522	1-208-806-11	METAL CHIP	10K	0.5%	1/10W		R597	1-247-750-11	CARBON	680	5%	1/2W
R523	1-249-411-11	CARBON	330	5%	1/4W		R598	1-249-438-11	CARBON	56K	5%	1/4W
R525	1-208-846-11	METAL CHIP	470K	0.5%	1/10W		R599	1-249-389-11	CARBON	4.7	5%	1/4W
R526	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W		R600	1-249-438-11	CARBON	56K	5%	1/4W
R527	1-216-001-00	RES-CHIP	10	5%	1/10W		R601	1-249-420-11	CARBON	1.8K	5%	1/4W
R528	1-208-814-91	METAL CHIP	22K	0.5%	1/10W		R602	1-249-389-11	CARBON	4.7	5%	1/4W
R529	1-216-635-11	METAL CHIP	220	0.5%	1/10W		R603	1-215-485-00	METAL	470K	1%	1/4W
R531	1-247-843-11	CARBON	3.3K	5%	1/4W		R604	1-216-097-11	RES-CHIP	100K	5%	1/10W
R533	1-249-417-11	CARBON	1K	5%	1/4W		R607	1-249-425-11	CARBON	4.7K	5%	1/4W
R534	1-216-364-11	METAL OXIDE	0.39	5%	2W		R608	1-240-205-51	CARBON	22M	5%	1/2W
R535	1-216-067-00	RES-CHIP	5.6K	5%	1/10W		R609	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R536	1-216-067-00	RES-CHIP	5.6K	5%	1/10W		R610	1-216-073-91	RES-CHIP	10K	5%	1/10W
R537	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W		R611	1-216-089-91	RES-CHIP	47K	5%	1/10W
R539	1-216-049-11	RES-CHIP	1K	5%	1/10W		R612	1-216-045-00	RES-CHIP	680	5%	1/10W
R540	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		R614	1-216-041-00	RES-CHIP	470	5%	1/10W
R541	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		R615	1-216-369-00	METAL OXIDE	1	5%	2W
R542	1-216-073-91	RES-CHIP	10K	5%	1/10W		R616	1-260-302-51	CARBON	6.8	5%	1/2W
R543	1-216-437-00	METAL OXIDE	5.6K	5%	1W		R617	1-247-791-91	CARBON	22	5%	1/4W
R544	1-215-917-11	METAL OXIDE	1K	5%	3W		R619	1-260-128-11	CARBON	270K	5%	1/2W
R545	1-216-077-91	RES-CHIP	15K	5%	1/10W		R620	1-129-720-00	FILM	0.033UF	5.00%	630V
R546	1-216-077-91	RES-CHIP	15K	5%	1/10W		R621	1-215-864-00	METAL OXIDE	150	5%	1W
R547	1-216-085-91	RES-CHIP	33K	5%	1/10W		R623	1-216-095-00	RES-CHIP	82K	5%	1/10W
R548	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W		R624	1-216-089-91	RES-CHIP	47K	5%	1/10W
R549	1-215-452-00	METAL	20K	1%	1/4W		R626	1-216-049-11	RES-CHIP	1K	5%	1/10W
R550	1-216-097-11	RES-CHIP	100K	5%	1/10W		R627	1-240-251-11	CMT-MELF	6.8	5%	10W
R551	1-249-441-11	CARBON	100K	5%	1/4W		R629	1-247-747-11	CARBON	470	5%	1/2W
R552	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		R630	1-249-429-11	CARBON	10K	5%	1/4W
R553	1-215-453-00	METAL	22K	1%	1/4W		R631	1-216-089-91	RES-CHIP	47K	5%	1/10W
R554	1-215-453-00	METAL	22K	1%	1/4W		R632	1-220-886-11	FUSIBLE	0.1	10%	1W
R556	1-215-437-00	METAL	4.7K	1%	1/4W		R634	△ 1-247-289-00	RESISTOR	8.2M	5%	1W
R558	1-247-843-11	CARBON	3.3K	5%	1/4W		R635	1-216-492-11	METAL OXIDE	82K	5%	3W
R559	1-249-429-11	CARBON	10K	5%	1/4W		R636	1-215-924-00	METAL OXIDE	15K	5%	3W
R560	1-216-073-91	RES-CHIP	10K	5%	1/10W		R637	1-216-492-11	METAL OXIDE	82K	5%	3W
R561	1-216-049-11	RES-CHIP	1K	5%	1/10W		R639	1-216-361-00	METAL OXIDE	0.22	5%	2W
R562	1-249-401-11	CARBON	47	5%	1/4W		R640	1-249-415-11	CARBON	680	5%	1/4W
R564	1-208-820-11	METAL CHIP	39K	0.5%	1/10W		R641	1-216-361-00	METAL OXIDE	0.22	5%	2W
R565	1-216-073-91	RES-CHIP	10K	5%	1/10W		R642	1-249-419-11	CARBON	1.5K	5%	1/4W
R567	1-216-105-91	RES-CHIP	220K	5%	1/10W		R643	1-247-843-11	CARBON	3.3K	5%	1/4W
R568	1-249-383-11	CARBON	1.5	5%	1/4W		R644	1-249-419-11	CARBON	1.5K	5%	1/4W
R570	1-216-069-00	RES-CHIP	6.8K	5%	1/10W		R646	1-215-924-00	METAL OXIDE	15K	5%	3W
R571	1-215-443-00	METAL	8.2K	1%	1/4W		R647	1-249-387-11	CARBON	3.3	5%	1/4W
R573	1-216-083-00	RES-CHIP	27K	5%	1/10W		R648	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R575	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W		R649	1-249-417-11	CARBON	1K	5%	1/4W

REF NO.	PART NO.	DESCRIPTION	REMARK
R650	1-215-882-00	METAL OXIDE 22	5% 2W
R652	1-215-900-11	METAL OXIDE 22K	5% 2W
R653	1-215-873-00	METAL OXIDE 4.7K	5% 1W
R656	1-249-417-11	CARBON 1K	5% 1/4W
R657	1-260-127-11	CARBON 220K	5% 1/2W
R659	1-216-049-11	RES-CHIP 1K	5% 1/10W
R660	1-216-073-91	RES-CHIP 10K	5% 1/10W
R661	1-215-873-00	METAL OXIDE 4.7K	5% 1W
R682	1-249-377-11	CARBON 0.47	5% 1/4W
R901	1-249-411-11	CARBON 330	5% 1/4W
R902	1-249-411-11	CARBON 330	5% 1/4W
R909	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R910	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
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RY600	△ 1-755-214-11	RELAY, AC POWER	
RY601	△ 1-755-214-11	RELAY, AC POWER	
<SWITCH>			
S501	1-572-707-11	SWITCH, LEVER	
S502	1-572-707-11	SWITCH, LEVER	
<TRANSFORMER>			
T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
T503	△ 1-453-284-11	TRANSFORMER ASSY, FLYBACK NX-4009	
T504	1-431-693-11	TRANSFORMER, HORIZONTAL LINEAR	

REF NO.	PART NO.	DESCRIPTION	REMARK
T505	1-426-981-11	TRANSFORMER, FERRITE (PMT)	
T601	1-429-505-11	COIL, LINE FILTER	
T603	△ 1-435-147-11	TRANSFORMER, CONVERTER (SRT)	
T604	△ 1-431-852-11	TRANSFORMER, CONVERTER (SRT)	
<THERMISTOR>			
TH600	1-803-586-11	THERMISTOR, NTC	
<THERMISTOR>			
THP600	1-803-540-11	THERMISTOR	
<TUNER>			
TU101	8-598-449-10	TUNER, FSS BTF-LG433	
<VARISTOR>			
VDR600	1-803-830-11	VARISTOR (ERZV14D621)	
<CRYSTAL>			
X001	1-579-125-11	VIBRATOR, CERAMIC	
X301	1-781-134-21	VIBRATOR, CRYSTAL	
X302	1-781-132-21	VIBRATOR, CRYSTAL	

(see page 90 ~ 97)

REF NO.	PART NO.	DESCRIPTION	REMARK
* A-1136-180-A		B6 BOARD COMPLETE (KV-XG29M50) THAILAND	
* A-1332-209-A		C6 BOARD COMPLETE (KV-XG29M50) THAILAND	
* A-1333-149-A		D3 BOARD MOUNTED (KV-XG29M50) THAILAND	
* A-1337-027-A		H2 BOARD MOUNTED (KV-XG29M50) THAILAND	