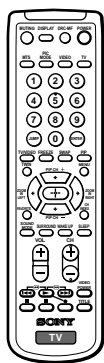


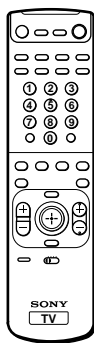
SERVICE MANUAL

AG3 CHASSIS

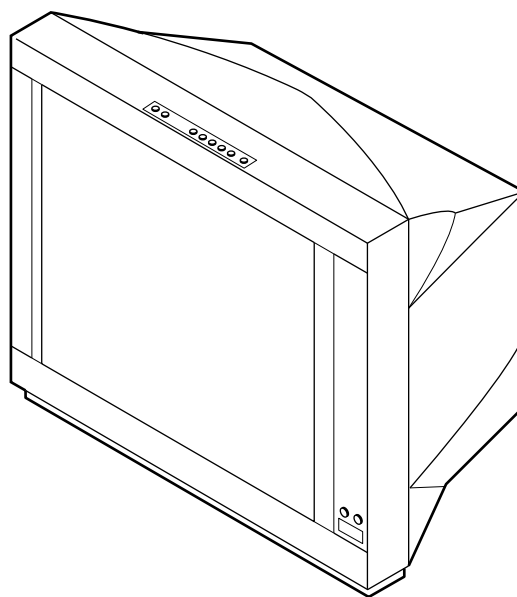
<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>	<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
<i>KV-ES34M61</i>	<i>RM-916</i>	<i>Thailand</i>	<i>SCC-U33B-A</i>				
<i>KV-ES34M61</i>	<i>RM-916</i>	<i>Malaysia</i>	<i>SCC-U34A-A</i>				
<i>KV-ES34N90</i>	<i>RM-958</i>	<i>Taiwan</i>	<i>SCC-P37B-A</i>				



RM-958



RM-916



TRINITRON[®] COLOR TV
SONY[®]

SPECIFICATIONS (KV-ES34M61)

		Note
Power requirements	110-240 V AC, 50/60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	B/G, I, D/K, M	
Color system	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58	
Stereo/Bilingual system	NICAM Stereo/Bilingual B/G, I; A2 Stereo/Bilingual (german) B/G	
Teletext language	English, Arabic, French	
Channel coverage		
B/G	VHF: E2 to E12 / UHF: E21 to E69 / CATV: S01 to S03, S1 to S41	
I	UHF: B21 to B68 / CATV: S01 to S03, S1 to S41	
D/K	VHF: C1 to C12, R1 to R12 / UHF: C13 to C57, R21 to R60 CATV: Z1 to Z39, S01 to S03, S1 to S41	
M	VHF: A2 to A13 / UHF: A14 to A79 / CATV: A-8 to A-2, A to W+4, W+6 to W+84	
⌋ (Antenna)	75-ohm external terminal	
Audio output (Speaker)	15W + 15W	10% distortion
Number of terminal		
📺 (Video)	Input: 4 Output: 1	Phono jacks; 1 V _{P-P} , 75 ohms
🎵 (Audio)	Input: 4 Output: 1	Phono jacks; 500 mV _{rms}
📺 (S Video)	Input: 2	Y : 1 V _{p-p} , 75 ohms, unbalanced, sync negative C : 0.286 V _{p-p} , 75 ohms
📺 (Component Video)	Input: 1	Phono jacks Y : 1 V _{p-p} , 75 ohms, sync negative C _B : 0.7 V _{p-p} , 75 ohms C _R : 0.7 V _{p-p} , 75 ohms Audio : 500 mV _{rms}
DIGITAL IN	Input: 1	Phono jack; 0.5 V _{p-p} , 75 ohms
🎧 (Headphones)	Output: 1	Stereo minijack
Picture tube	34 inch	
Tube size (cm)	86	Measured diagonally
Screen size (cm)	80	Measured diagonally
Dimension (w/h/d, mm)	859 × 650 × 573	
Mass (kg)	84	

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 \triangle 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.

**SPECIFICATIONS
(KV-ES34N90)**

		Note
Power requirements	110 V AC, 60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	M	
Color system	PAL*, PAL 60*, SECAM*, NTSC4.43*, NTSC3.58	*AV IN only
Stereo/Bilingual system	MTS	
Channel coverage	VHF: 2 to 13 / UHF: 14 to 69 / CATV: 1 to 125	
⏏ (Antenna)	75-ohm external terminal	
Audio output (Speaker)	15W + 15W	10% distortion
Number of terminal		
VIDEO	Input: 4 Output: 1	Phono jacks; 1 V _{P-P} , 75 ohms
AUDIO	Input: 4 Output: 1	Phono jacks; 500 mVrms
S VIDEO	Input: 2	Y : 1 V _{P-P} , 75 ohms, unbalanced, sync negative C : 0.286 V _{P-P} , 75 ohms
COMPONENT VIDEO (DVD) IN	Input: 1	Phono jacks Y : 1 V _{P-P} , 75 ohms, sync negative CB : 0.7 V _{P-P} , 75 ohms CR : 0.7 V _{P-P} , 75 ohms Audio : 500 mVrms
DIGITAL IN	Input: 1	Phono jack; 0.5 V _{P-P} , 75 ohms
🎧 (Headphones)	Output: 1	Stereo minijack
Picture tube	34 inch	
Tube size (cm)	86	Measured diagonally
Screen size (cm)	80	Measured diagonally
Dimension (w/h/d, mm)	859 × 650 × 573	
Mass (kg)	84	

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 \triangle 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

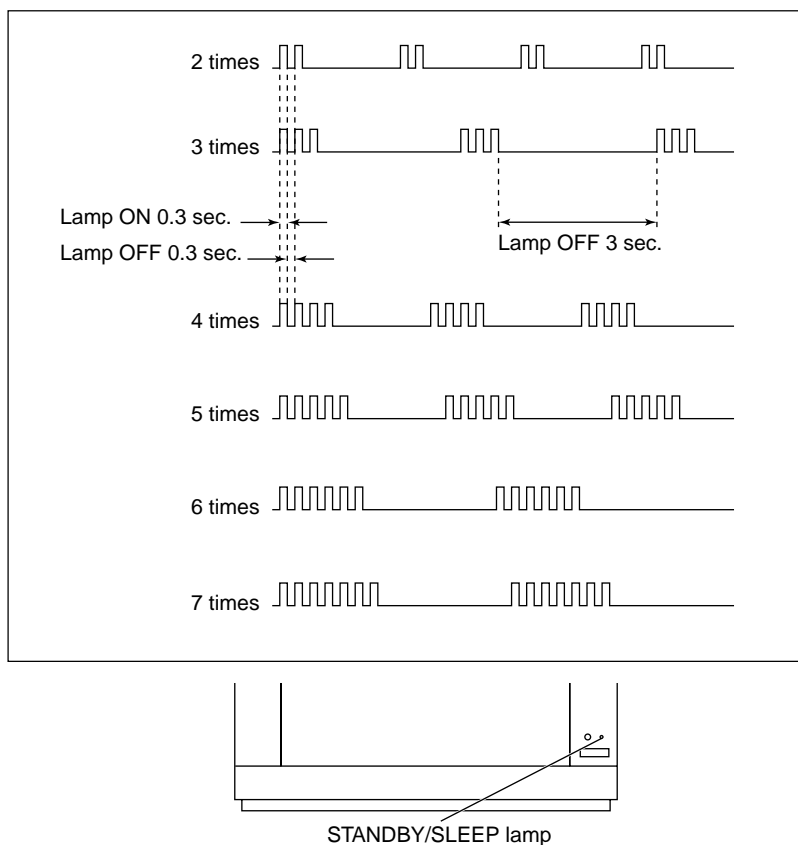
When an errors occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

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	—	<ul style="list-style-type: none"> • Power cord is not plugged in. • Fuse is burned out F1601 (F1 Board) 	<ul style="list-style-type: none"> • Power does not come on. • No power is supplied to the TV. • AC power supply is faulty.
• +B overcurrent (OCP)	2 times	002:000 or 002:001~255	<ul style="list-style-type: none"> • H.OUT Q6807 is shorted. • H.LIM Q6810 is shorted. 	<ul style="list-style-type: none"> • Power does not come on. • Load on power line is shorted.
• +B overvoltage (OVP)	3 times	003:000 or 003:001~255	<ul style="list-style-type: none"> • PH 6602 faulty. • 10.5V is not supplied. (D board) 	<ul style="list-style-type: none"> • Power does not come on.
• Vertical deflection failure	4 times	004:000 or 004:001~255	<ul style="list-style-type: none"> • V.OUT IC6800 faulty • D6816 faulty • D6817 faulty • D6824 faulty • R6852 open • R6851 open 	<ul style="list-style-type: none"> • Vertical deflection pulse is stopped. • Vertical size is too small. • Vertical deflection stopped.
• White balance failure (no PICTURE)	5 times	005:000 or 005:001~255	<ul style="list-style-type: none"> • G2 is improperly adjusted. (Note 2) • CRT problem. • Video OUT IC9001, 9002, 9003 are faulty. (C board) • IC8306 (J board) and IC4301 (E board) are faulty. • No connection E board to C board. 	<ul style="list-style-type: none"> • No raster is generated. • CRT cathode current detection reference pulse output is small.
• Horizontal deflection failure	6 times	006:000 or 006:001~225	<ul style="list-style-type: none"> • C6831 is open circuit. • CN6101 (D1 board) is disconnected. 	<ul style="list-style-type: none"> • H pulse output is too high.
• Audio Protection	7 times	007:000 or 007:001~225	<ul style="list-style-type: none"> • Power supply fails. • IC1203, IC1204 faulty 	<ul style="list-style-type: none"> • There is picture but speaker does not release sound.
• Micro reset	—	101:00 or 101:001~225	<ul style="list-style-type: none"> • Discharge CRT (C Board) • Static discharge • External noise 	<ul style="list-style-type: none"> • Power is shut down shortly, after this return back to normal. • Detect Micro latch up.

Note 1: Refer to screen (G2) Adjustment in section 4-5 of this manual.

2. DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT



<u>Diagnostic Item</u>	<u>Flash Count*</u>
+B overcurrent	2 times
+B overvoltage	3 times
V deflection stop	4 times
White balance failure	5 times
High voltage protector	6 times
Audio Protection	7 times

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

3. STOPPING THE STANDBY/TIMER FLASH

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

4. SELF-DIAGNOSTIC SCREEN DISPLAY

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

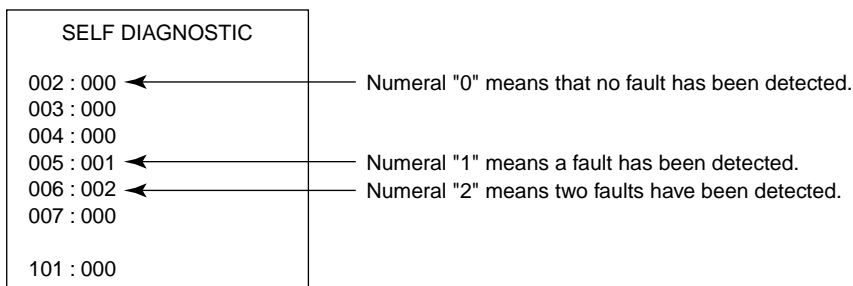
[To Bring Up Screen Test]

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

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

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

Self-Diagnosis screen display



5. HANDLING OF SELF-DIAGNOSTIC SCREEN DISPLAY

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

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

[Clearing the result display]

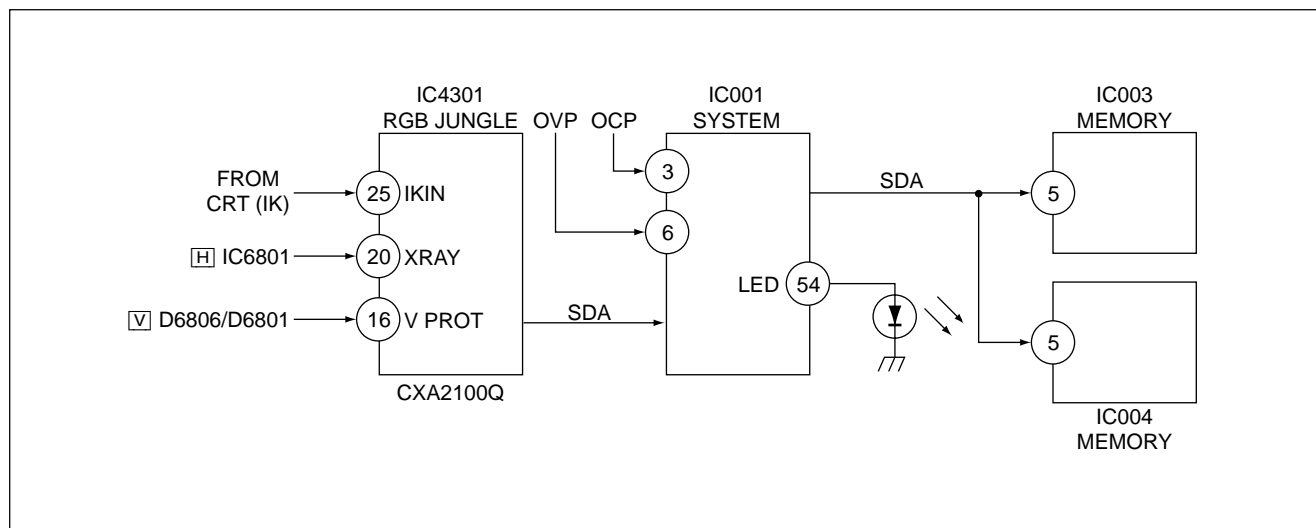
To clear the result display to "0", press buttons on the remote commander sequentially as shown below when the diagnostic screen is being displayed.

Channel [8] → 0

[Quitting Self-diagnostic screen]

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

6. SELF-DIAGNOSTIC CIRCUIT

**+B overcurrent (OCP)**

Occurs when an overcurrent on the +B(135) line is detected by Q6610 and Q6609.

If Q6610 and Q6609 go to ON, the voltage to the pin3 of IC001 go to UP. The unit will automatically turn off.

+B overvoltage (OVP)

Occurs when an overvoltage on the +B(135) line is detected by D6635, Q6611 and Q6612. If Q6611 and Q6612 go to ON, the voltage to pin6 of IC001 go to UP. The unit will automatically turn off.

Vertical deflection failure

Occurs when an absence of the vertical deflection pulse is detected by Q6811, Q6819, Q6820, Q6821 and D6801. Shut down the power supply.

White balance failure

If the RGB levels do not balance or become low level within 5 seconds. This error will be detected by IC4301. TV will stay on, but there will be no picture.

High voltage protector of Horizontal Deflection

Occurs when an overvoltage of horizontal pulse is detected by D6809 and IC6801.



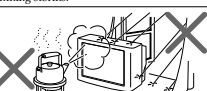

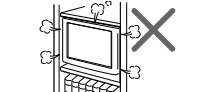
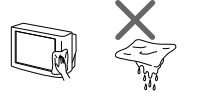
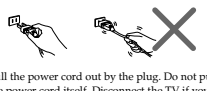



If the voltage of 7 pin of IC6801 goes to High, the voltage to pin20 of IC4301 go to UP. The unit will automatically turn off.

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 1-1 GENERAL (KV-ES34M61)

WARNING

- Dangerously high voltages are present inside the TV.
- Operate the TV only between 110 – 240 V AC.

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

2 |

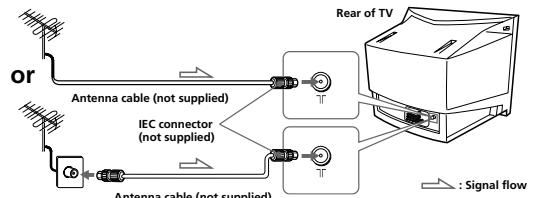
Using Your New TV

Getting Started

Step 1


Connect the antenna

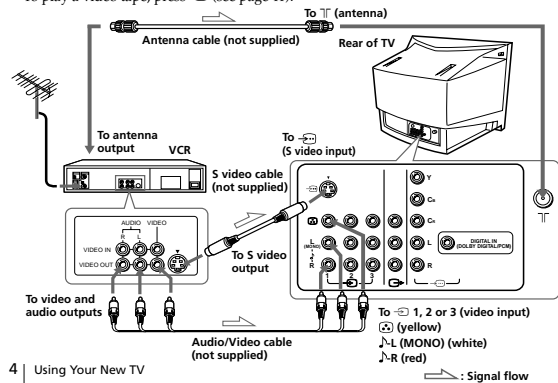
If you wish to connect a VCR, see the "Connecting a VCR" diagram below.



CAUTION
Do not connect the power cord until all other connections are complete; otherwise, a minimal current leakage through the antenna and/or other terminals to the ground could occur.

Connecting a VCR

To play a video tape, press  (see page 11).



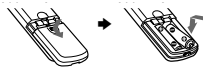
4 | Using Your New TV

Notes

- If you connect a monaural VCR, connect the yellow plug to (yellow jack) and the black plug to L (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.
- When both the (S video input) and (video input) are connected, the (S video input) is automatically selected. To view the video input to (video input), disconnect the S video cable.

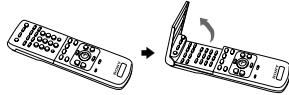
Step 2

Insert the batteries into the remote



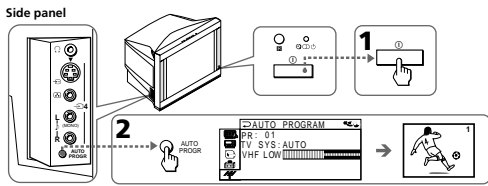
Notes

- Do not use old batteries or different types of batteries together.
- To operate some of the functions of your TV, you may have to open the remote control cover.



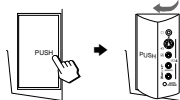
Step 3

Preset the channels automatically



Notes

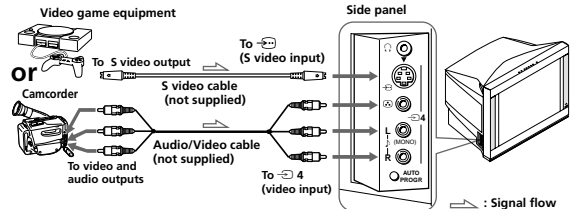
- To stop the automatic channel presetting, press MENU twice.
- If your TV has preset an unwanted channel or cannot preset a particular channel, then preset your TV manually (see page 42).
- To open the side panel of your TV, push on it until you hear a click, then it will open.



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 and operate the connected equipment, see pages 11 and 26.

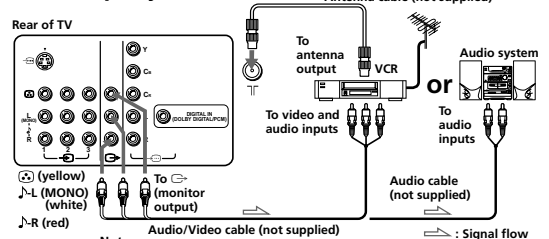
Connecting a camcorder/video game equipment using the (video input) jacks



Notes

- When connecting video game equipment, display the "FEATURE" menu and select "ON" for "GAME MODE" to adjust the picture setting that is suitable for video games (see page 37).
- You can also connect video equipment to the (video input) 1, 2, or 3 (video input) jacks at the rear of your TV.
- When both the (S video input) and (video input) 4 (video input) are connected, the (S video input) is automatically selected. To view the video input to (video input) 4 (video input), disconnect the S video cable.

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

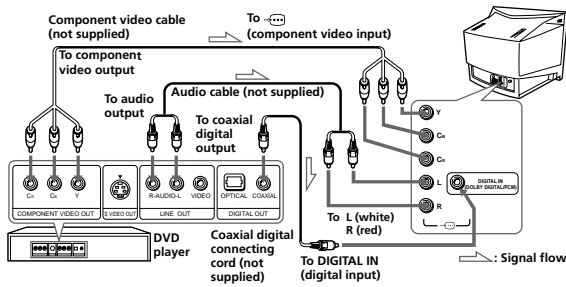


Note

- If you select "DVD" on your TV screen, no signal will be output at the (monitor output) jacks (see page 11).

Connecting a DVD player to (component video input)

- 1 Using an audio cable, connect R and L under (component video input) on your TV to the LINE OUT, AUDIO R and L output connectors on your DVD player.
- 2 Using a coaxial digital connecting cord, connect DIGITAL IN under (component video input) on your TV to the DIGITAL OUT, COAXIAL output connector on your DVD player.
- 3 Using a component video cable, connect Y, Cb, and Cr under (component video input) on your TV to the COMPONENT VIDEO OUT Y, Cb, and Cr output connectors on your DVD player.
- 4 Press on the remote or the TV until "DVD" appears on the screen.



- Notes**
- Some DVD player terminals may be labeled differently:

Connect	To (on the DVD player)
Y (green)	Y
Cb (blue)	Cb, B-Y or Pb
Cr (red)	Cr, R-Y or Pr

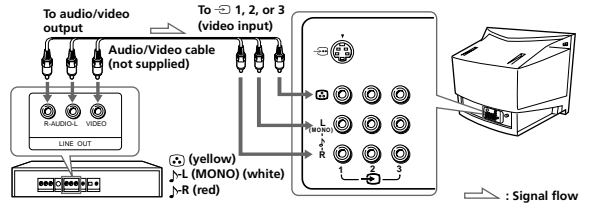
- When connecting to (component video input) on your TV, you must connect Y, Cb, and Cr to receive the video signals, and at least connect DIGITAL IN to receive digital audio signals or connect L and R to receive analog audio signals (see page 33).
- When making connections to DIGITAL IN under (component video input) on your TV, always set "DIGITAL IN: OFF" in the "A/V CONTROL" menu. After completing all connections, then set "DIGITAL IN: ON". If you set "DIGITAL IN: ON" while still making connections to DIGITAL IN (component video input), a loud noise may suddenly come out from the speakers, affecting your hearing and causing damage to the speakers (see page 33).

continued

Connecting optional components (continued)

Connecting a DVD player to (video input)

Connect 1, 2, or 3 (video input) / (audio/video) connectors on your TV to LINE OUT on your DVD player.



Notes

- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust the sharpness ("SHARP") under "PERSONAL ADJUST" in the "PICTURE MODE" menu (see page 32).
- Connect your DVD player directly to your TV. Connecting the DVD player through other video equipment will cause unwanted picture noise.

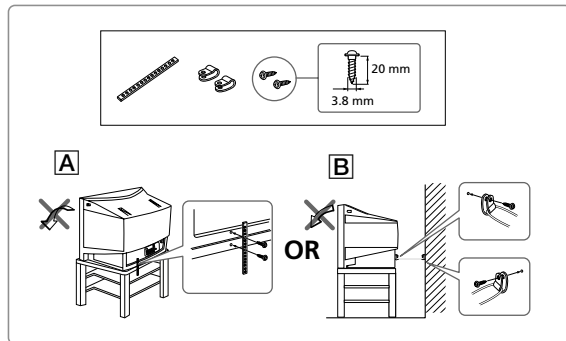
Securing the TV

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

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

OR

B Pass a cord or chain through the clamps and secure them to the rear of the TV and a wall or pillar.

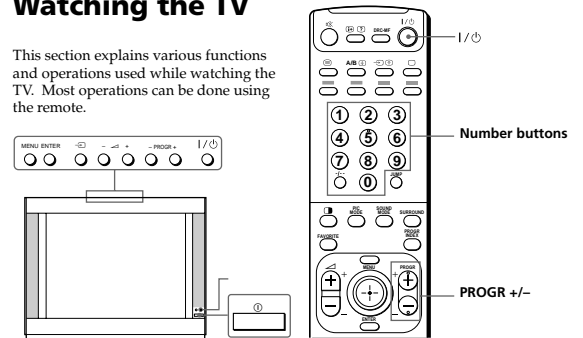


Note

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

Watching the TV

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



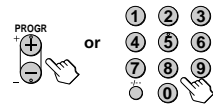
1 Press **1** to turn on the TV.

When the TV is in standby mode (the **1** indicator on the TV is lit red), press **I/O** on the remote or on the TV.



2 Press **PROGR +/-** or the number buttons to select the TV channel.

For double digit numbers, press **-/-**, then the number (e.g., for 25, press **-/-**, then 2 and 5).



Note

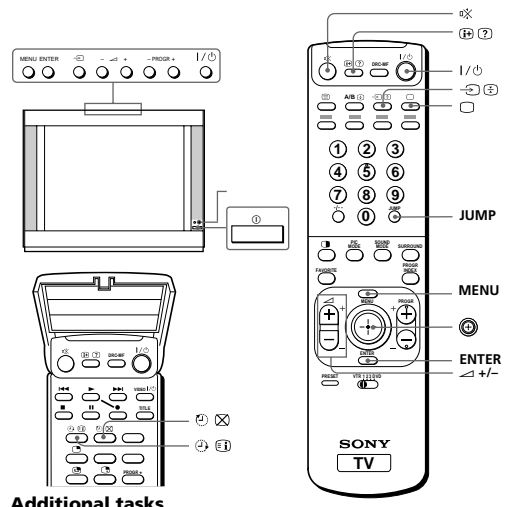
- When you turn on the TV, either the program number or video mode is displayed for approximately 40 seconds. The ECO MODE (E) icon will also appear if "ECO MODE" in the "FEATURE" menu is set "ON" (see page 37).

To select a TV program quickly

- (1) Press and hold **PROGR +/-**.
- (2) Release **PROGR +/-** when the desired program number appears.

Note

- When you select a TV program quickly, the picture may be disrupted. This does not indicate a malfunction.



Additional tasks

To	Press
Turn off temporarily	I/O. The indicator on the TV lights up red.
Turn off completely	① on the TV.
Adjust the volume	▲+/-.
Mute the sound	⊘.
Watch the video input (VCR, camcorder, etc.)	① (or ②) on the TV to select "VIDEO 1", "VIDEO 2", "VIDEO 3", "VIDEO 4" or "DVD". To return to the TV screen, press □ (or ② on the TV).
Jump back to the previous channel	JUMP.
Display the on-screen information*	Ⓜ.

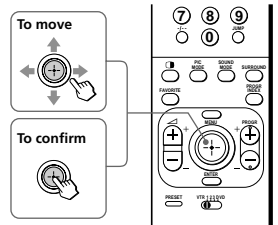
* Some picture/sound settings, and either the program number or video mode are displayed. The on-screen display for the picture/sound settings disappears after about 3 seconds.

continued

Watching the TV (continued)

Using the Remote Control Button Joystick (Ⓜ)

You can select the menu item on the screen by moving Ⓜ up, down, left or right (see page 30).
To confirm a selected item, press Ⓜ. You can also press ENTER on the remote to confirm a selected item.



Changing the menu language

You can change the menu language as well as the on-screen language. For details on how to use the menu, see "Introducing the menu system" on page 28.

- Press MENU.
- Move Ⓜ up or down to select MENU, then press Ⓜ.
- Make sure "LANGUAGE" is selected then press Ⓜ.
- Move Ⓜ up or down to select the desired language (e.g., 中文), then press Ⓜ. The selected menu language appears.

To return to the normal screen

Press MENU.

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 channel or video mode you want to wake up to.
- Press I/⏻, 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 standby mode. To resume 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.
-

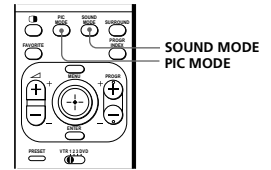
To cancel the Sleep timer

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

Advanced Operations

Selecting the picture and sound modes

You can select picture and sound modes and adjust the setting to your preference in the "PERSONAL" option.



Selecting the picture mode

Press PIC MODE repeatedly until the desired picture mode is selected.



Select	To
"DYNAMIC"	receive high contrast pictures.
"STANDARD"	receive normal pictures.
"HI-FINE"	receive higher resolution pictures with mild contrast.
"PERSONAL"	receive the last adjusted picture setting from the "ADJUST" option in the "A/V CONTROL" menu (see page 32).

Selecting the sound mode

Press SOUND MODE repeatedly until the desired sound mode is selected.



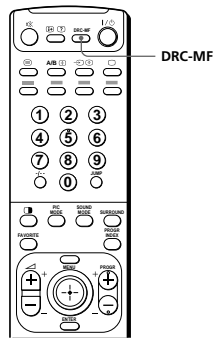
Select	To
"DYNAMIC"	listen to dynamic and clear sound that emphasizes both the low and high tones.
"DRAMA"	listen to sound that emphasizes voice and high tones.
"SOFT"	receive soft sound.
"PERSONAL"	receive the last adjusted sound setting from the "ADJUST" option in the "A/V CONTROL" menu (see page 32).

Tip

- You can also set the picture and sound modes using the menu (see "Changing the "A/V CONTROL" setting" on page 31).

Viewing higher quality pictures — “DRC-MF”

The Digital Reality Creation-Multi Function (DRC-MF) feature allows you to enjoy higher quality pictures on your TV. You can select “DRC1250” to watch super real (higher resolution) pictures, or “DRC100” to reduce flicker if necessary.



Press DRC-MF repeatedly until you receive the desired picture quality.



Select	To
“DRC1250”	select higher resolution pictures.
“DRC100”	reduce flicker on the screen.

Tip

- When the broadcast signal is weak, you may see some dots or noise on the TV screen. To reduce this interference, display the “A/V CONTROL” menu and select “ADJUST” in “PICTURE MODE”, then adjust “SHARP” to reduce the sharpness (see page 32).

Note

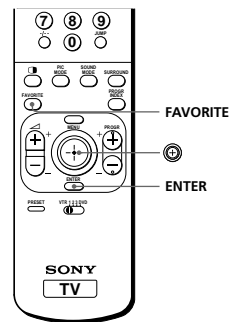
- The DRC-MF mode is not selectable when using the “PROGRAM INDEX” or “FAVORITE” channel feature, or when the “GAME MODE”, Picture-In-Picture (“PIP”), or “TWIN” mode is turned “ON”.

The DRC-MF logo () and “DRC-MF” are trademarks of Sony Corporation.

Viewing your favorite channels — “FAVORITE CH”

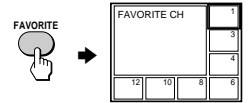
You can display seven favorite channels for quick and easy selection.

The last seven channels selected with the number buttons are displayed in “AUTO” mode. You can set up your own favorite channels in “MANUAL” mode under the “FAVORITE CH” menu (see “Changing the favorite channel setting” on page 40).

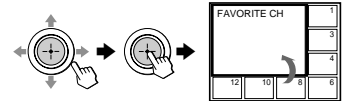


Selecting a favorite channel

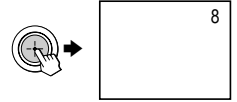
- 1 Press FAVORITE.



- 2 Move  up, down, left or right to select the desired channel (e.g. PR 8), then press .



- 3 Press  again.



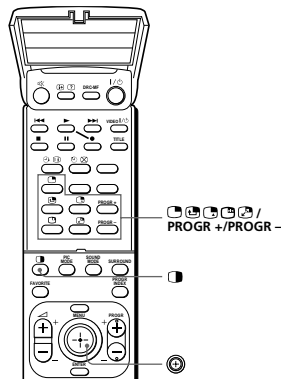
Note

- When you use your TV for the first time, seven preset channels appear.

Watching two programs at the same time

— “PIP”, “TWIN”

With the Picture-in-Picture (PIP) or TWIN pictures features, you can display a different TV program or video within or beside the main picture.



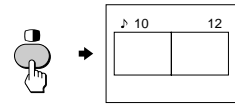
Displaying the PIP screen

Press **PIP**.



Displaying TWIN pictures

Press **TWIN**.



To return to the normal screen

Press **PIP** (when in the PIP screen) or **TWIN** (when in the TWIN picture screen).

Tip

- You can also display the PIP screen or TWIN pictures using the menu (see “Changing the MULTI PICTURE setting” on page 34).

continued

Watching two programs at the same time (continued)

Additional PIP/TWIN pictures tasks

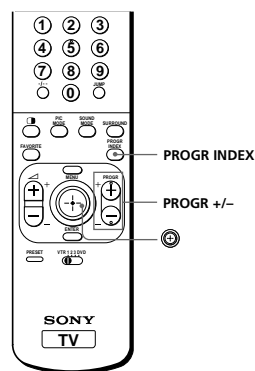
To	Press/Move
change a TV program in the PIP screen or in the right TWIN picture	Press PROGR + or PROGR -. For a video input, press PROG .
swap pictures between the main and PIP screens	Press PIP .
freeze the PIP screen	Press PIP . To unfreeze the screen, press the button again.
change the position of the PIP screen	Press PIP .
swap the right and left pictures of the TWIN pictures	Press TWIN .
change the screen size of the TWIN pictures	Move ← left to increase the left screen size. Move → right to increase the right screen size.

Notes

- The **PIP** button does not function in the TWIN pictures mode.
- When you display a video input on the PIP screen at a faster / slower speed, the picture may be disrupted depending on the VCR type.
- If you display different color systems on the main screen and the PIP screen, the size of the PIP screen may be different and the PIP picture may be disrupted. This does not indicate a malfunction of the TV.
- In the TWIN picture screen, you can only operate and hear the sound of the main left screen (♪ appears on the screen).
- When the **TWIN** button is pressed, the TV screen flickers or goes blank for about one second before the TWIN pictures appear. This does not indicate a malfunction of the TV.

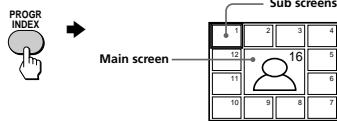
Displaying multiple programs — "PROGRAM INDEX"

The PROGRAM INDEX feature displays all of the preset TV programs on twelve or seven sub screens for direct selection.

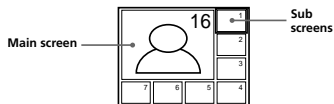


Press PROGR INDEX.

The first twelve preset programs appear one by one, clockwise from the upper left corner.



When the number of the preset TV programs is less than eight, the first seven preset programs appear one by one, clockwise from the upper right corner.



Tip

- When you press the PROGR INDEX button in the TWIN pictures mode, the left picture appears as the main screen of the PROGRAM INDEX mode.

continued

Displaying multiple programs (continued)

To view the next or the previous twelve preset programs

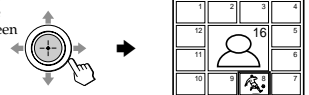
This works only when the number of the preset TV programs is more than twelve.

Press PROGR +/- on the remote or the TV.



To select the desired program directly from the sub screens

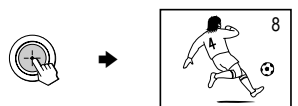
1 Move up, down, left or right to move the frame to the screen of the program you want to watch.



2 Press .



3 Press again.



Tip

- Pressing the number buttons directly displays the program.

To return to the normal screen

Press PROGR INDEX again, or:

- Select "PROGRAM INDEX" from the "MULTI PICTURE" menu.
- Press .

Tip

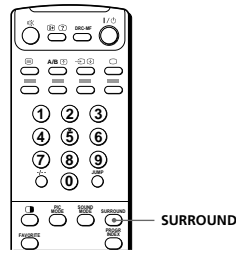
- You can also display multiple programs using the menu (see "Changing the MULTI PICTURE setting" on page 34).

Note

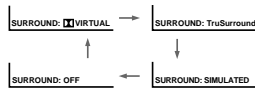
- When displaying multiple programs, only the sound of the main screen is heard.

Listening with surround sound

The surround feature enables you to enjoy the sound effects of a concert hall or movie theater.



Press SURROUND repeatedly until you receive the desired surround sound.



Select	To
"D VIRTUAL"	listen to Dolby® Surround encoded sound.
"TruSurround"	listen to the surround sound that spreads out to the rear of a room.
"SIMULATED"	listen to monaural sound with a stereo-like effect.
"OFF"	turn off the surround sound.

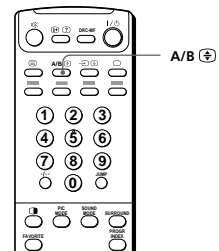
Notes

- The Virtual Dolby Surround of this model consists of Dolby Digital, Dolby Pro Logic and TruSurround.
- The "D VIRTUAL" (Virtual Dolby Digital) is only available when receiving a Dolby Digital signal through the DIGITAL IN (component video input) jack at the rear of your TV and "DIGITAL IN: ON" in the "A/V CONTROL" menu is selected (see pages 7 and 31).
- When using the DIGITAL IN (component video input) jack at the rear of your TV, the available surround modes depend on the type of digital signal being received.
- SIMULATED uses SRS (MONO).
- Manufactured under license from Dolby Laboratories Licensing Corporation. DOLBY, the double-D symbol **DD** and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

"TruSurround" is a trademark of SRS Labs, Inc. SRS and the SRS symbol are registered trademarks of SRS Labs, Inc. in the United States and selected foreign countries. SRS and TruSurround are incorporated under license from SRS Labs, Inc. and are protected under United States Patent Nos. 4,748,669 and 4,841,572 with numerous additional issued and pending foreign patents".

Enjoying stereo or bilingual programs

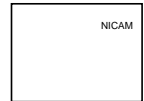
You can enjoy stereo sound or bilingual programs of NICAM and A2 (German) stereo systems.



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

Broadcasting	On-screen display (Selected sound)
NICAM stereo	
NICAM bilingual	
NICAM monaural	

When receiving an A2 (German) program

Broadcasting	On-screen display (Selected sound)
A2 (German) stereo	<div style="display: flex; justify-content: space-between; align-items: center;"> MONO (Regular sound) STEREO (Stereo sound) </div>
A2 (German) bilingual	<div style="display: flex; justify-content: space-between; align-items: center;"> MAIN (Main sound) SUB (Sub sound) </div>

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 ㄿ (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.

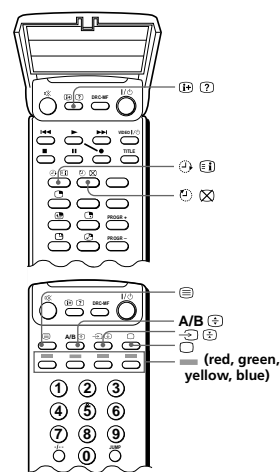


Notes

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

Viewing Teletext

Some TV stations broadcast an information service called Teletext which allows you to receive various information, such as stock market reports and news.

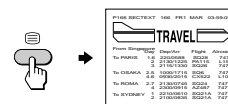


Displaying Teletext

1 Select a TV channel that carries the Teletext broadcast you want to watch.

2 Press ㄿ 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 after approximately 10 seconds.



To turn off Teletext

Press ㄿ.

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, including page numbers, appears 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 PROG+/-.
hold (pause) 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 viewing, 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.
stand by 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

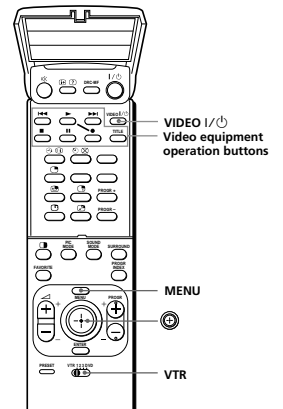
This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT program is broadcast, colored menus appear at the bottom of the screen. The color of each menu corresponds to the color-coded buttons on the remote (red , green , yellow , and blue).

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 a few seconds.

Operating optional components

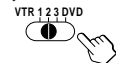
You can use the supplied remote to operate Sony video equipment such as Beta, 8 mm, VHS or DVD.



Setting up the remote to work with other connected equipment

Switch VTR to select the desired equipment type (see the chart below).

For example, to operate a Sony 8 mm VCR:



To control	Select
DVD	DVD
VTR1 (Beta)	1
VTR2 (8 mm)	2
VTR3 (VHS)	3

Notes

- If your video equipment is furnished with a COMMAND MODE selector, set this selector to the same position as the VTR switch.
- If the equipment does not have a certain function, the corresponding button on the remote will not operate.

Operating a VCR using the remote

To	Press
turn on/off	VIDEO 1 / ⏻
record	▶ while pressing ●
play	▶
stop	■
fast forward (▶▶)	▶▶
rewind the tape (◀◀)	◀◀
pause	⏸
	Press again to resume normal playback.
search the picture forward (▶▶) or backward (◀◀)	▶▶ or ◀◀ during playback. Release to resume normal playback.

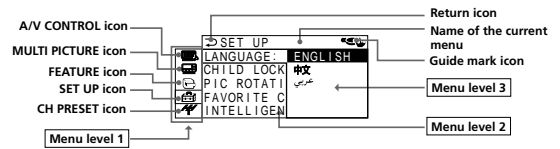
Operating a DVD player using the remote




To	Press
turn on/off	VIDEO 1 / ⏻
play	▶
stop	■
pause	⏸
	Press again to resume normal playback.
step through different tracks of an audio disc	▶▶ to step forward or ◀◀ to step backward.
display the title menu	TITLE
display the menu	MENU while holding down ●
select the menu item	Move ⏪ up, down, left or right while holding down ●



Adjusting Your Setup (MENU)

Introducing the menu system

The MENU button lets you open a menu and change the settings of your TV. The following is an overview of the menu system.



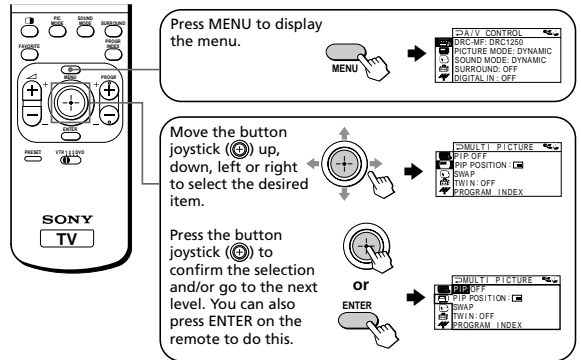
Level 1	Level 2	Level 3/Function
"A/V CONTROL" 	"DRC-MF"	Select the "DRC-MF" mode: "DRC1250" → "DRC100"
	"PICTURE MODE"	Select the picture mode: "DYNAMIC" → "STANDARD" → "HI-FINE" → "PERSONAL" → "ADJUST"
	"ADJUST"	Adjust the "PERSONAL" option: "PICTURE" → "COLOR" → "BRIGHT" → "HUE" → "SHARP"
	"SOUND MODE"	Select the sound mode: "DYNAMIC" → "DRAMA" → "SOFT" → "PERSONAL" → "ADJUST"
	"ADJUST"	Adjust the "PERSONAL" option: "BASS" → "TREBLE" → "BALANCE" → "BBE"*
	"SURROUND"	Select the "SURROUND" mode: "DIG VIRTUAL" → "TruSurround" → "SIMULATED" → "OFF"
	"DIGITAL IN"	Activate or deactivate the digital audio input jack at the rear of your TV.
"MULTI PICTURE" 	"PIP"	Activate or deactivate the PIP feature.
	"PIP POSITION"	Change the position of the sub screen.
	"SWAP"	Swap the pictures between the main and sub screens.
	"TWIN"	Display a TV program or video beside the main screen.
	"PROGRAM INDEX"	Display all the preset TV programs at the same time.
"FEATURE" 	"WIDE MODE"	Activate or deactivate WIDE MODE feature.
	"ECO MODE"	Activate or deactivate ECO MODE feature.
	"GAME MODE"	Activate or deactivate GAME MODE feature.

Level 1	Level 2	Level 3/Function
"SET UP" 	"LANGUAGE"	Change the menu language: "ENGLISH" → "中文" (Chinese) → "عربي" (Arabic)
	"CHILD LOCK"	Lock out specific channels.
	"PIC ROTATION"	Rotate the picture.
	"FAVORITE CH"	Set favorite channels.
	"INTELLIGENT VOL"	Adjust the volume automatically.
"CH PRESET" 	"AUTO PROGRAM"	Preset channels automatically.
	"MANUAL PROGRAM"	Preset channels manually.
	"SKIP"	Skip unwanted or unused program numbers.
	"TV SYS"	Select the TV system: "B/C" → "I" → "D/K" → "M"
	"COL SYS"	Select the color system: "AUTO" → "PAL" → "SECAM" → "NTSC3.58" → "NTSC4.43"

* The BBE is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word "BBE" and the BBE symbol are the trademarks of BBE Sound, Inc.

Introducing the menu system (continued)

How to use the menu



Press MENU to display the menu.

Move the button joystick (⊕) up, down, left or right to select the desired item.

Press the button joystick (⊕) to confirm the selection and/or go to the next level. You can also press ENTER on the remote to do this.

Other menu operations

To	Press/Move
Adjust the setting value	Move ⊕ up, down, left or right.
Move to the next/previous menu level	Move ⊕ left or right.
Cancel the menu	Press MENU.

Tips

- If you want to exit from Menu level 2 to Menu level 1, move ⊕ up or down until the return icon (⏪) is highlighted, then press ⊕ or ENTER.
- The MENU, ENTER, and +/- buttons on the TV can also be used for the operations above.

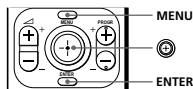
Note

- If more than 60 seconds elapse between entries, the menu screen automatically disappears.

continued

Changing the "A/V CONTROL" setting

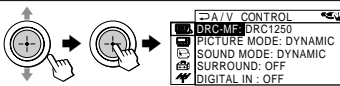
The "A/V CONTROL" menu allows you to adjust the picture and sound settings.



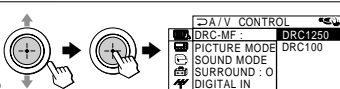
1 Press MENU.



2 Move \odot up or down to select either \square , then press \odot .



3 Move \odot up or down to select either "DRC-MF", "PICTURE MODE", "SOUND MODE", "SURROUND", or "DIGITAL IN", then press \odot .



4 Move \odot up or down to select the desired option, then press \odot .



For	Select
"DRC-MF"	either "DRC1250" or "DRC100".
"PICTURE MODE"	either "DYNAMIC", "STANDARD", "HI-FINE", "PERSONAL",* or "ADJUST".
"SOUND MODE"	either "DYNAMIC", "DRAMA", "SOFT", "PERSONAL",* or "ADJUST".
"SURROUND"	either "VIRTUAL", "TruSurround", "SIMULATED", or "OFF".
"DIGITAL IN"	either "ON" or "OFF".

* When the "PERSONAL" mode is selected, the last adjusted picture/sound settings from the "ADJUST" option are received (see page 32).

Tip

- For details on the options under the "DRC-MF", "PICTURE MODE"/ "SOUND MODE", "SURROUND" and "DIGITAL IN" modes, see pages 15, 14, 21 and 33 respectively.

To return to the normal screen

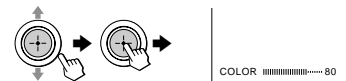
Press MENU.

continued

Changing the "A/V CONTROL" setting (continued)

Adjusting the "ADJUST" options under "PICTURE MODE"

1 Move \odot up or down to select the desired item (e.g., "COLOR"), then press \odot .



2 Adjust the value according to the following table, then press \odot .

For	Move \odot down or left to	Move \odot up or right to
"PICTURE"	decrease picture contrast	increase picture contrast
"COLOR"	decrease color intensity	increase color intensity
"BRIGHT"	darken the picture	brighten the picture
"HUE"*	increase red picture tones	increase green picture tones
"SHARP"	soften the picture	sharpen the picture

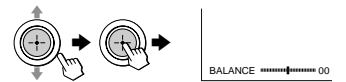
* You can adjust "HUE" for the NTSC color system only.

3 Repeat the above steps to adjust other items.

The adjusted settings will be received when you select "PERSONAL".

Adjusting the "ADJUST" options under "SOUND MODE"

1 Move \odot up or down to select the desired item (e.g., "BALANCE"), then press \odot .



2 Adjust the value according to the following table, then press \odot .

For	Move \odot
"BASS"	down or left to decrease the bass, up or right to increase the bass.
"TREBLE"	down or left to decrease the treble, up or right to increase the treble.
"BALANCE"	down or left to increase the left speaker's volume, up or right to increase the right speaker's volume.
"BBE"	up or down to select "HIGH", "LOW", or "OFF". "BBE" can produce clear sound.

3 Repeat the above steps to adjust other items.

The adjusted settings will be received when you select "PERSONAL".

Setting the "DIGITAL IN" options

1 In the "DIGITAL IN" menu, move up or down to select the desired option (see table below).

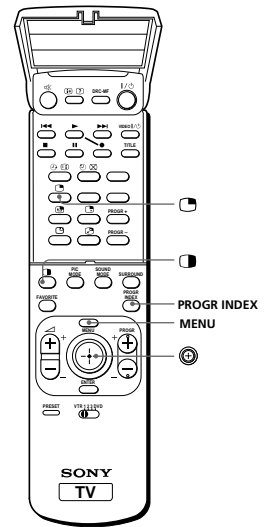
Select	To
"ON"	receive digital audio signal through DIGITAL IN (component video input) jack.
"OFF"	receive analog audio signal through L and R (component video input) jack.

2 Press to confirm the selected option.

- Note**
- Your TV can only receive Dolby Digital or Linear PCM format digital signals through the DIGITAL IN (component video input) jack (see page 7). Receiving any other format digital signal may cause unwanted noise or no sound from the speakers.
- Tip**
- For details on the menu system and how to use the menu, refer to "Introducing the menu system" on page 28.

Changing the "MULTI PICTURE" setting

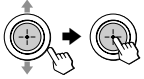
The "MULTI PICTURE" menu allows you to use the Picture-in-Picture (PIP), TWIN pictures, or PROGRAM INDEX features.




1 Press MENU.

2 Move up or down to select , then press .

3 Move up or down to select the desired option (see the table below), then press .



Select	To
"PIP"	display the PIP screen within the main picture. Move up or down to select "ON", then press . To cancel, press or select "OFF", then press .
"PIP POSITION"	change the position of the PIP screen. Move up or down to select the desired position, then press .
"SWAP"	swap the main and PIP screens, or right and left pictures of the TWIN pictures.
"TWIN"	display a different TV program or video beside the main picture. Move up or down to select "ON", then press . To cancel, press or select "OFF", then press .
"PROGRAM INDEX"	view multiple programs on the sub-screens. To cancel, press PROGR INDEX .



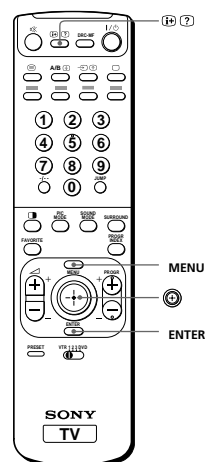
To return to the normal screen

Press **MENU**.

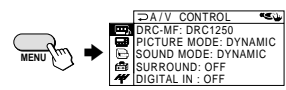
- Tip**
- For details on the menu system and how to use the menu, see "Introducing the menu system" on page 28.

Changing the "FEATURE" setting

The "FEATURE" menu allows you to change the size of the picture on the screen when receiving wide mode (16:9) picture signals. You can also adjust the picture setting that is suitable for viewing video games, and reduce the power consumption of your TV.



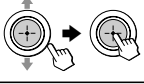
1 Press **MENU**.

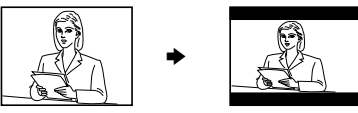


2 Move up or down to select , then press .



3 Move **⏪** up or down to select the desired option (see the table below), then press **⏩**.



Select	To
"WIDE MODE"	change the size of the picture when receiving wide-mode (16:9) picture signal. Move ⏪ up or down to select "ON", then press ⏩ . 
"ECO MODE"	reduce power consumption of your TV to save energy. Move ⏪ up or down to select "ON", then press ⏩ . To cancel, select "OFF", then press ⏩ .
"GAME MODE"	adjust the picture setting that is suitable to view video games. Move ⏪ up or down to select "ON", then press ⏩ . To cancel, select "OFF", then press ⏩ .

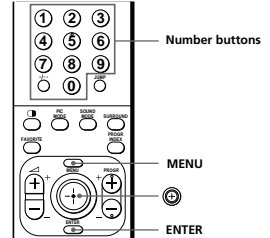
- Notes**
- When you turn on "ECO MODE", the picture may become dimmer. Turning "ECO MODE" off will restore the picture to its original setting.
 - "WIDE MODE" and "GAME MODE" is available only when receiving signals through the **⏪** (video input), **⏩** (S video input), or **⏪** (component video input) jacks at the side and rear of your TV.
 - If "ECO MODE" is on, the ECO MODE (⏪) icon will appear at the bottom right corner of the screen when you turn on the TV or when you press **⏩** on the remote (see pages 10 and 11).

To return to the normal screen
Press MENU.


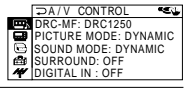
Tip
• For details on the menu system and how to use the menu, see "Introducing the menu system" on page 28.

Changing the "SET UP" setting

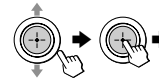
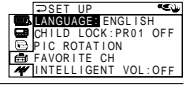
The "SET UP" menu allows you to: change the menu language, block channels, adjust the picture position, program your favorite channels, and adjust the volume automatically.



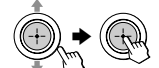
1 Press MENU.


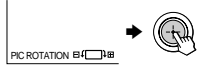



2 Move **⏪** up or down to select **⏪**, then press **⏩**.

3 Move **⏪** up or down to select the desired option, then press **⏩**.



Select	To
"LANGUAGE"	change the menu language (see page 12).
"CHILD LOCK"	block channels (see page 39).
"PIC ROTATION"	adjust the picture position when it is not aligned with the TV screen. Move ⏪ up or right to adjust the position clockwise, then press ⏩ . Move ⏪ down or left to adjust the position counter clockwise, then press ⏩ . 
"FAVORITE CH"	select your favorite channels (see pages 16 and 40).
"INTELLIGENT VOL"	adjust the volume of all TV programs automatically. Move ⏪ up or down to select "ON", then press ⏩ . To cancel, select "OFF", then press ⏩ . 

To return to the normal screen
Press MENU.

Blocking channels ("CHILD LOCK")

1 After selecting "CHILD LOCK", either move up or down, or press the number buttons (or PROGR +/-) to select the desired channel (e.g. PR 06), then press .

2 Move up or down to select "ON", then press . To unlock the channel, select "OFF". The lock symbol () appears on the screen when "ON" is selected.

If a locked channel is selected, the lock symbol appears on the screen.



3 Repeat steps 1 and 2 to lock other channels.

To return to the normal screen

Press MENU.

Note

- If you preset a locked channel, that channel will be unlocked automatically (see page 41).

continued

Changing the "SET UP" setting (continued)

Changing the favorite channel setting

1 After selecting "FAVORITE CH", make sure "MODE" is selected, then press .

2 Move up or down to select "MANUAL", then press .

3 Move up or down to select the program you want to change, then press .

4 Move up or down to change the number, then press .

5 Repeat steps 3 and 4 to set other channels.

To return to the normal screen

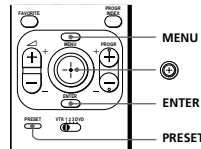
Press MENU.

Note

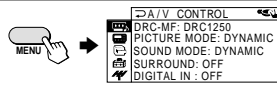
- If you press the PROGR +/- buttons or number buttons in step 4 above, the TV will display the channel immediately.

Changing the "CH PRESET" setting

The "CH PRESET" menu allows you to adjust the setup of your TV. For example, you can manually tune in a channel with a weak signal that fails to be tuned in by automatic presetting.



1 Press MENU.



2 Move up or down to select , then press .



3 Move up or down to select the desired option, then press .



Select	To
"AUTO PROGRAM"	preset channels automatically.
"MANUAL PROGRAM"	preset channels manually. See "Presetting channels manually" on page 42.
"SKIP"	skip unwanted or unused channels. 1 Either move up or down, or press the number buttons (or PROGR +/-) until the unused or unwanted channel number appears, then press .
	2 Select "ON", then press .
	3 To disable other channels, repeat steps 1 and 2. To restore the skipped channel, select "OFF" in step 2.
"TV SYS"	select the TV system.
"COL SYS"	select the color system. Normally, set this to "AUTO".

To return to the normal screen

Press MENU.

Tip

- For details on the menu system and how to use the menu, refer to "Introducing the menu system" on page 28.

continued

Changing the "CH PRESET" setting (continued)

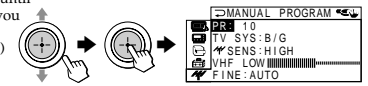
Presetting channels manually

1 After selecting "MANUAL PROGRAM", select the program number to which you want to preset a channel.

- Make sure "PR" is selected, then press .



- Move up or down until the program number you want to preset (e.g., program number "10") appears on the menu, then press .



Tips

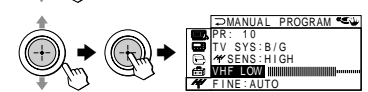
- You can also select the "MANUAL PROGRAM" menu directly by pressing the PRESET button on the remote.
- You can also select the program number with the PROGR +/- or number buttons.

2 Select the desired channel.

- Move up or down to select either "VHF LOW", "VHF HIGH", or "UHF", then press .



- Move up or down until the desired channel's broadcast appears on the TV screen, then press .



3 If the sound of the desired channel is abnormal, select the appropriate TV system.

- Move up or down to select "TV SYS", then press .



- Move up or down until the sound becomes normal, then press .



4 If you are not satisfied with the picture and sound quality, you may be able to improve them by using the "FINE" tuning feature.

- (1) Move up or down to select "FINE", then press .
- (2) Move up or down to select "MANUAL", then press .
- (3) Move either up, down, left or right until the picture and sound quality are optimal, then press . The + or - icon on the menu flashes while tuning.

5 If the TV signal is too strong and the picture is distorted, you can adjust the TV reception sensitivity.

- (1) Move up or down to select "SENS", then press .
- (2) Move up or down to select "LOW", then press .

To return to the normal screen

Press MENU.

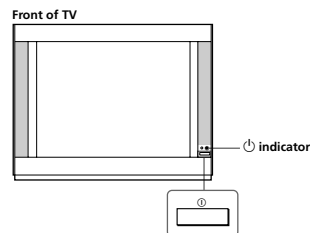
Notes

- The TV system ("TV SYS") and the TV reception sensitivity ("SENS") settings are memorized for each program number.
- If you preset a locked channel, that channel will be unlocked automatically (see page 39).

Additional Information

Self-diagnosis function









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



- 1** Check that the indicator flashes red a number of times between 3-second intervals.
- 2** Count the number of times the indicator flashes.
- 3** Press (main power) to turn off your TV.
- 4** Inform your nearest Sony service center about the number of times the indicator flashed. Be sure to note the model name and serial number located on the rear of your TV.







Troubleshooting



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

Symptom	Possible cause	Solutions	Page
 Snowy picture	<ul style="list-style-type: none"> The connection is loose or the cable is damaged. 	<ul style="list-style-type: none"> Check the antenna cable and connection on the TV, VCR and at the wall. 	4
 Noisy sound	<ul style="list-style-type: none"> The antenna type is inappropriate. The antenna direction needs adjustment. Signal transmission is low. 	<ul style="list-style-type: none"> Press the PRESET button to display the "MANUAL PROGRAM" menu and preset the channel again. Check the antenna type (VHF/UHF). Contact a Sony dealer for advice. Adjust the antenna direction. Contact a Sony dealer for advice. Try using a booster. 	42 - -
 Distorted picture	<ul style="list-style-type: none"> Broadcast signals are too strong. 	<ul style="list-style-type: none"> Press the PRESET button to display the "MANUAL PROGRAM" menu. Then, select SENS: LOW. Turn off or disconnect the booster if it is in use. 	43 -
 Noisy sound			
 Good picture	<ul style="list-style-type: none"> The TV system setting is inappropriate. 	<ul style="list-style-type: none"> If the sound of all the channels are noisy, display the "CH PRESET" menu and select "AUTO PROGRAM" to preset the channels again. If the sound of some channels is noisy, select the channel, then display the "CH PRESET" menu and select the appropriate TV system ("TV SYS"). 	41 42
 Noisy sound	<ul style="list-style-type: none"> The digital audio signal is inappropriate. 	<ul style="list-style-type: none"> Set "DIGITAL IN: OFF" in the "A/V CONTROL" menu and connect L and R (component video input) on your TV to receive analog audio signals. 	7, 33
 No picture	<ul style="list-style-type: none"> The power cord, antenna or VCR is not connected. The TV is not turned on. 	<ul style="list-style-type: none"> Check the power cord, antenna and the VCR connections. Press I/O (power). Press ⏻ (main power) on the TV to turn off the TV for about five seconds, then turn it on again. 	4 10 11
 No sound			

continued

Troubleshooting (continued)

Symptom	Possible cause	Solutions	Page
 Good picture	<ul style="list-style-type: none"> The volume level is too low. The sound is muted. 	<ul style="list-style-type: none"> Press ⏮ + to increase the volume level. Press ⏸ to cancel the muting. 	11 11
 No sound	<ul style="list-style-type: none"> The broadcast signal has a transmission problem. The digital audio signal is inappropriate. The "DIGITAL IN" setting in the "A/V CONTROL" menu is inappropriate. 	<ul style="list-style-type: none"> Press A/B until a better sound is heard. Set "DIGITAL IN: OFF" in the "A/V CONTROL" menu and connect L and R (component video input) on your TV to receive analog audio signals. When connecting to COMP (component video input) on your TV, set "DIGITAL IN: ON" to receive digital audio signals through DIGITAL IN, or set "DIGITAL IN: OFF" to receive analog audio signals through L and R. 	22 7, 33 33
 Dotted lines or stripes	<ul style="list-style-type: none"> There is local interference from cars, neon signs, hair dryers, power generators, etc. 	<ul style="list-style-type: none"> Do not use a hair dryer or other equipment near the TV. Adjust the antenna direction for minimum interference. Contact a Sony dealer for advice. 	- -
 Double images or "ghosts"	<ul style="list-style-type: none"> Broadcast signals are reflected by nearby mountains or buildings. The antenna direction needs adjustment. Use of a booster is inappropriate. 	<ul style="list-style-type: none"> 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. 	- 43 -
 No color	<ul style="list-style-type: none"> The color level setting is too low. The color system setting is inappropriate. The antenna direction needs adjustment. 	<ul style="list-style-type: none"> Display the "A/V CONTROL" menu and select "ADJUST" of "PICTURE MODE", then adjust the "COLOR" level. Display the "CH PRESET" menu and check the color system ("COL SYS") setting (usually set this to "AUTO"). Adjust the antenna direction. Contact a Sony dealer for advice. 	32 41 -
 Abnormal color patches	<ul style="list-style-type: none"> The magnetic disturbance from external speakers or other equipment, or the direction of the earth's magnetic field may affect the TV. 	<ul style="list-style-type: none"> Locate external speakers or other 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. 	-

Symptom	Possible cause	Solutions	Page
TV cannot receive stereo broadcast signal.	<ul style="list-style-type: none"> The stereo reception setting is inappropriate. 	<ul style="list-style-type: none"> Press A/B until "AUTO" appears on the screen. 	22
Stereo broadcast sound switches on and off or is distorted. OR The sound switches between stereo and monaural frequently.	<ul style="list-style-type: none"> The connection is loose or the cable is damaged. 	<ul style="list-style-type: none"> Check the antenna cable and connection on the TV, VCR and on the wall. 	4
	<ul style="list-style-type: none"> The antenna direction needs adjustment. 	<ul style="list-style-type: none"> Adjust the antenna direction. Contact a Sony dealer for advice. 	-
	<ul style="list-style-type: none"> The broadcast signal has a transmission problem. 	<ul style="list-style-type: none"> Press A/B until a better sound is heard. 	22
"100?" appears at the top of the screen after approximately 10 seconds and there is no Teletext display.	<ul style="list-style-type: none"> The channel carries no Teletext broadcast. 	-	24
Teletext display is incomplete (snowy picture or double images).	<ul style="list-style-type: none"> Connection is loose or the cable is damaged. 	<ul style="list-style-type: none"> Check the antenna cable and connection on the TV, VCR, and at the wall. 	4
	<ul style="list-style-type: none"> The antenna direction is inappropriate. 	<ul style="list-style-type: none"> Adjust the antenna direction. Contact a Sony dealer for advice. 	-
	<ul style="list-style-type: none"> Signal transmission is too low. 	<ul style="list-style-type: none"> Try using a booster. Use the fine tuning (FINE) function. 	43
Picture slant 	<ul style="list-style-type: none"> Terrestrial magnetism is affecting your TV set. 	<ul style="list-style-type: none"> Display the "SET UP" menu and adjust "PIC ROTATION" so that the picture is aligned to the TV screen. 	38
Lines moving across the TV screen.	<ul style="list-style-type: none"> There is interference from external sources, e.g., heavy machineries, nearby broadcast station. 	<ul style="list-style-type: none"> Use the fine tuning ("FINE") function. 	43
The  indicator on your TV flashes red a number of times between 3-second intervals.	<ul style="list-style-type: none"> Your TV may need servicing. 	<ul style="list-style-type: none"> Contact your nearest Sony service center. 	44

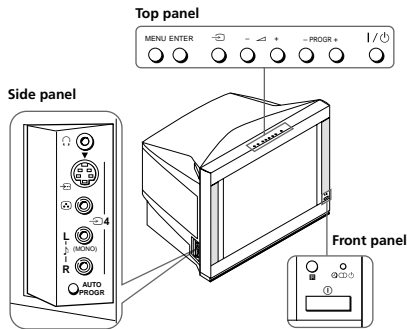
continued

Troubleshooting (continued)

Symptom	Possible cause	Solutions	Page
TV cabinet creaks.	<ul style="list-style-type: none"> Changes in room temperature sometimes make the TV cabinet expand or contract, causing a noise. This does not indicate a malfunction. 	-	-
A small "boom" sound is heard when the TV is turned on.	<ul style="list-style-type: none"> The TV's demagnetizing function is working. This does not indicate a malfunction. 	-	-
Static discharge is felt when touching the TV cabinet.	<ul style="list-style-type: none"> This is the same static discharge that is felt when touching metal door handles or car doors especially when the air is dry, for example in winter. This does not indicate a malfunction. 	-	-

Identifying parts and controls

Front, top and side panels



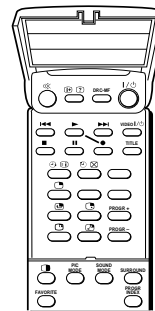
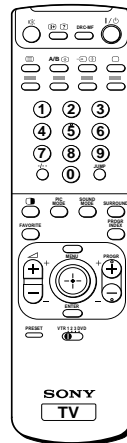
Button	Function	Page
Side panel		
	Headphone jack.	-
AUTO PROGR	Preset channels automatically.	5
Front panel		
	Turn off completely or turn on the TV.	10
Top panel		
	Turn off temporarily or turn on the TV.	10
PROGR +/-	Select program number.	10
	Adjust volume.	11
	Select TV or video input.	11
ENTER	Confirm selected items.	30
MENU	Display the menu.	30

continued

Additional Information | 49

Identifying parts and controls (continued)

Remote control

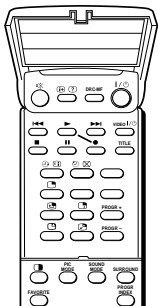
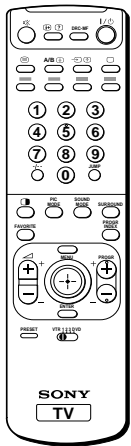


The names/symbols of buttons on the remote are indicated in different colors to represent the available functions.

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

Button	Function	Page
	Turn off temporarily or turn on the TV.	10
PROGR +/-	Select program number.	10
0 - 9, +/-	Input numbers.	10
	Display on-screen information.	11
	Mute the sound.	11
	Display the TV program.	11
	Select TV or video input.	11
	Adjust volume.	11
JUMP	Jump to previous channel.	11
Timer operations		
	Set TV to turn on automatically.	13
	Set TV to turn off automatically.	13
SOUND MODE	Select sound mode.	14
PIC MODE	Select picture mode.	14
DRC-MF	Select DRC-MF mode.	15
Favorite Channel operations		
FAVORITE	Display favorite channels.	16
	Select desired channel.	16
PIP and Twin picture operations		
	Display the PIP screen.	17
	Display TWIN pictures.	17
	Adjust Twin picture size.	18
PROGR +/-	Change program in PIP/Twin picture.	18
PROGR -	Select video input for PIP/Twin picture.	18
	Swap main and PIP/Twin picture.	18
	Freeze PIP screen.	18
	Adjust position of PIP screen.	18

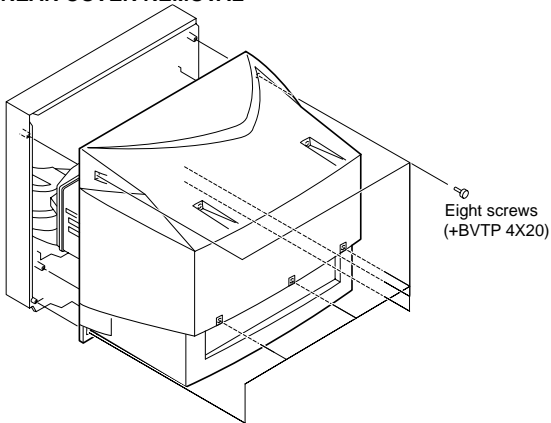
50 | Additional Information



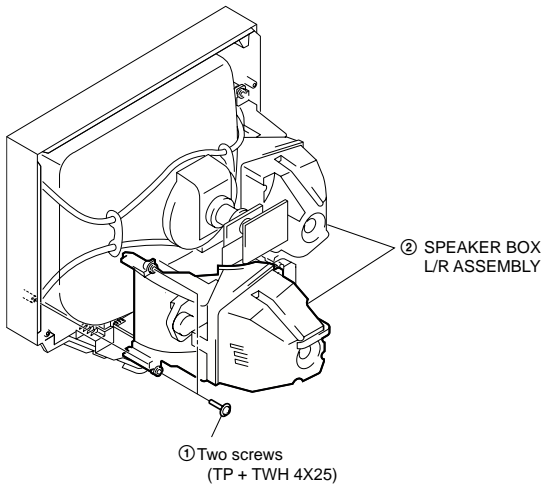
Button	Function	Page
Program Index operations		
PROGR INDEX	Display all preset TV programs.	19
PROGR +/-	View next/previous 12 TV programs.	20
Ⓢ	Select desired channel.	20
SURROUND	Select surround mode.	21
Stereo/bilingual operations		
A/B	Select stereo/bilingual mode.	22
Teletext operations		
Ⓜ	Display Teletext broadcast.	24
Ⓜ	Display Teletext service contents.	25
Ⓜ	Stop Teletext page from scrolling.	25
?	Reveal concealed information.	25
Ⓜ	Enlarge the Teletext display.	25
Ⓜ	Show TV screen while waiting for Teletext page.	25
0 - 9	Input Teletext page number.	25
PROGR +/-	Display the next or previous page.	25
■ (red, green, yellow, blue)	Access a FASTEXT menu.	25
Optional components operations		
VTR	Set up the remote.	26
VIDEO I / Ⓜ	Power.	27
TITLE	Display the title menu.	27
▶	Play.	27
▶▶	Fast forward/Search forward.	27
◀◀	Rewind/Search backward.	27
●	Record.	27
■	Stop.	27
⏸	Pause.	27
Menu operations		
MENU	Display the menu.	30
Ⓢ	Select, adjust and confirm selected items.	30
ENTER	Confirm selected items.	30
PRESET	Display "MANUAL PROGRAM" menu.	42

SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

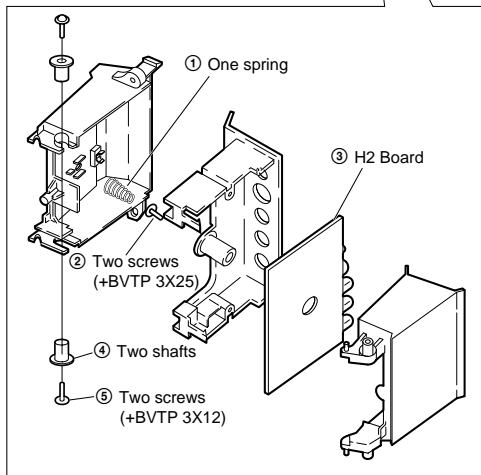
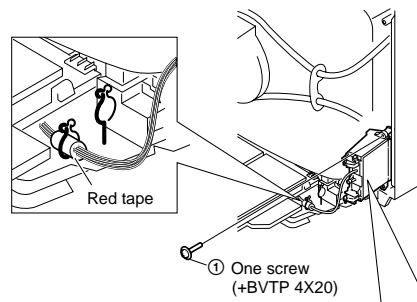


2-2. SPEAKER BOX REMOVAL

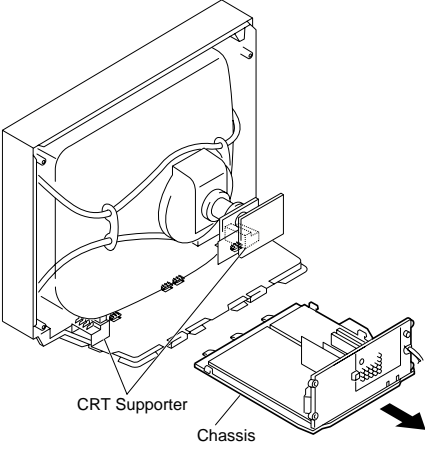


2-3. H2 BOARD REMOVAL

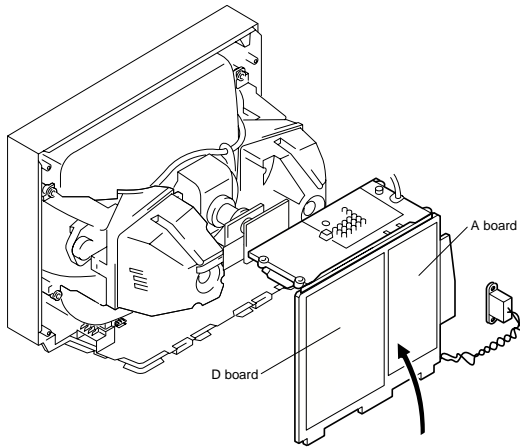
Caution: Please make sure that the red colour taped point is just placed with the purse lock when treating the leads to H2 board. If lead treatment is wrongly arranged, it will affect the door opening and closing malfunction.



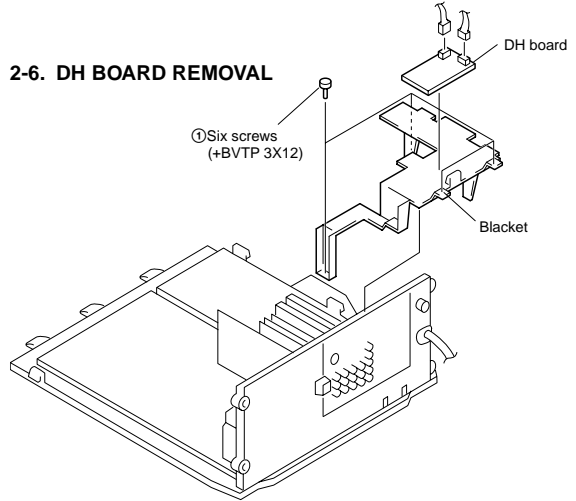
2-4. CHASSIS ASSY REMOVAL



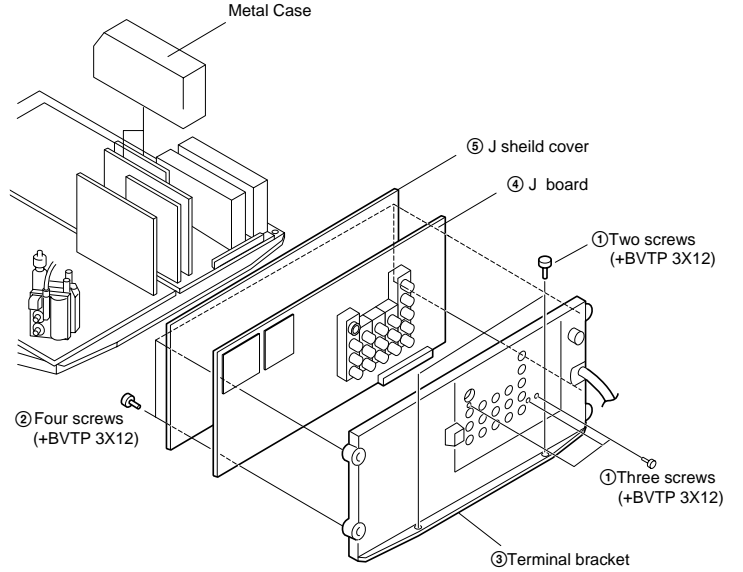
2-5. SERVICE POSITION



2-6. DH BOARD REMOVAL

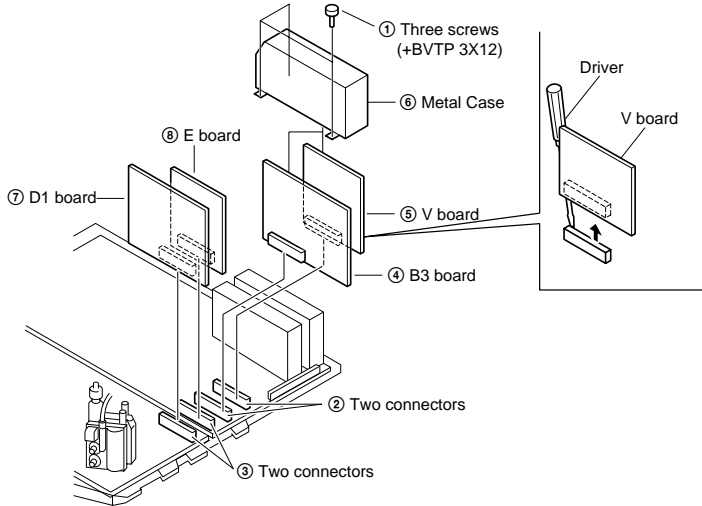


2-7. J BOARD REMOVAL

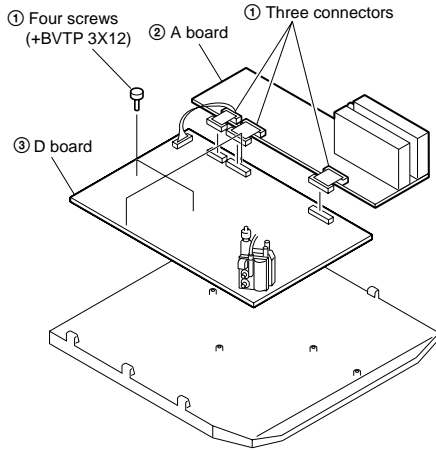


2-8. B3, D1 AND E BOARDS REMOVAL

NOTE: V board is used for KV-ES34M61 only.

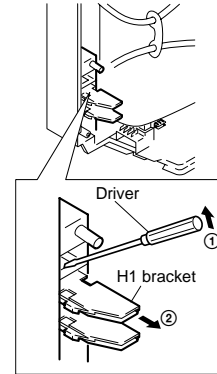


2-9. A AND D BOARDS REMOVAL



2-10. H1 BOARD REMOVAL

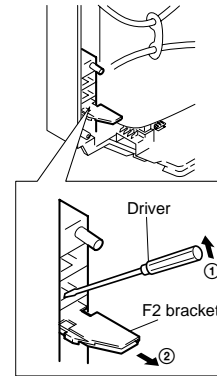
NOTE : Push the hook down using the tip of a screwdriver and at the same time pull the H1 bracket.



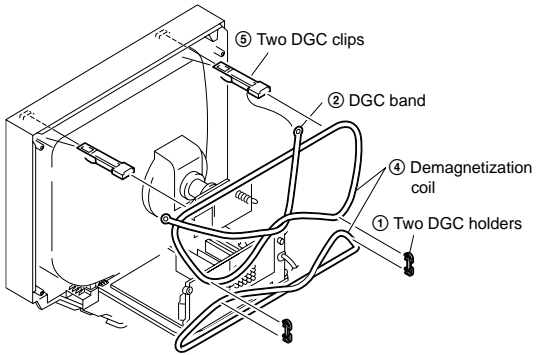
2-11. F2 BOARD REMOVAL

NOTE : To remove F2 board, firstly remove the H1 board. Then, push the hook down using the tip of a screwdriver and at the same time pull the F2 bracket.

Caution : When removing the F2 board, please turn off the main AC supply and disconnect the AC plug.

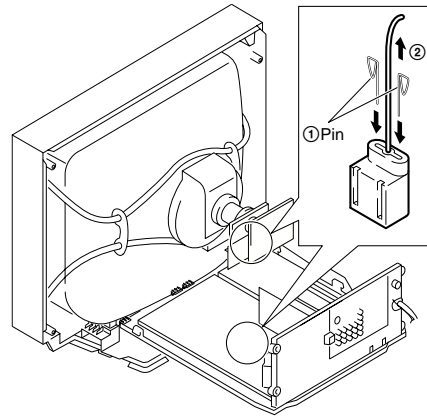


2-12. DEMAGNETIZATION COIL REMOVAL



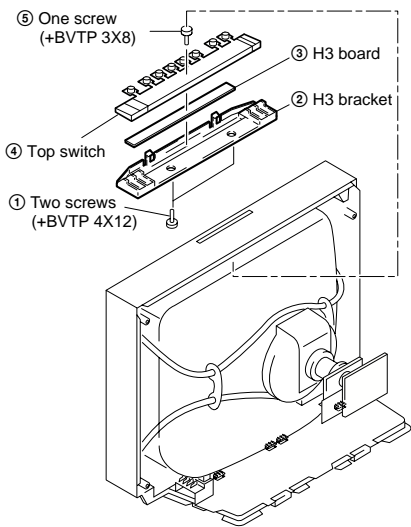
2-14. G2 LEAD REMOVAL

NOTE : Insert pin to both edge holes on socket and release the lock.



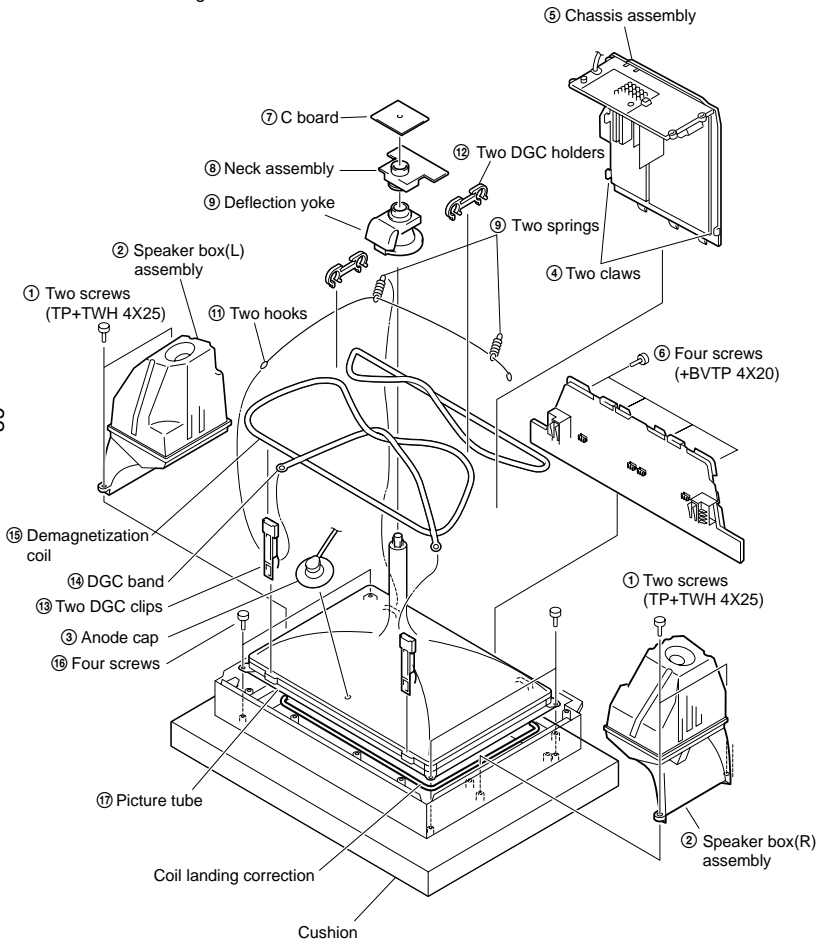
2-13. TOP SWITCH REMOVAL (H3 BOARD REMOVAL)

NOTE : To remove H3 board, the CRT has to be removed first.



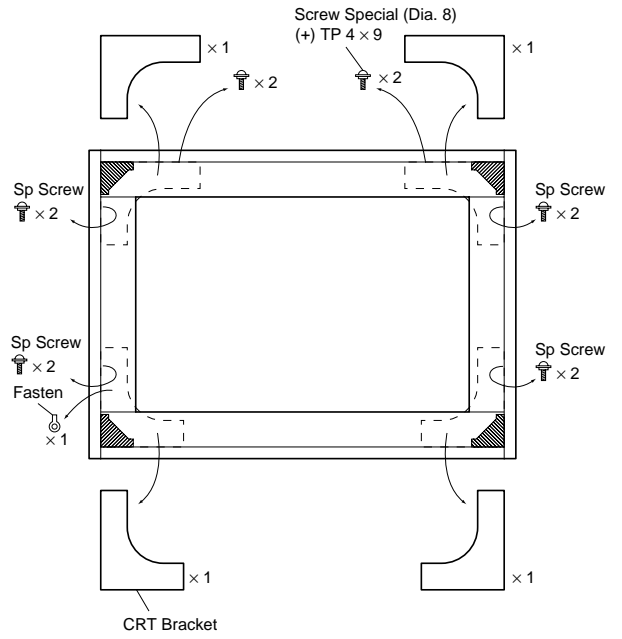
2-15. PICTURE TUBE REMOVAL

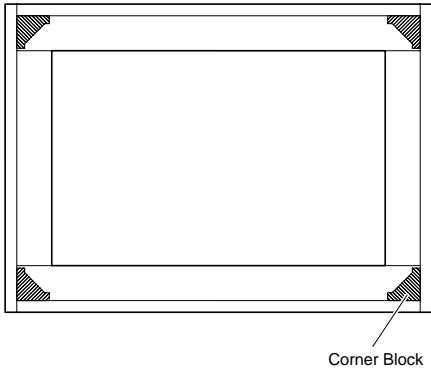
NOTE : Prior to picture tube removal, please remove the front cover first.
 Caution : Aluminium frame is easily scratched if extra caution is not taken when handling it.



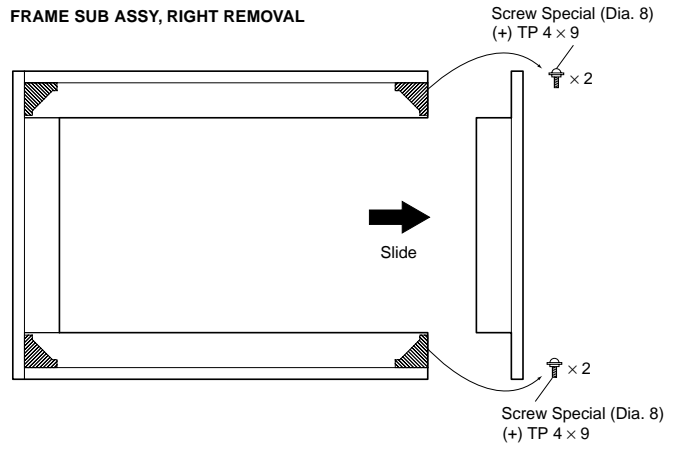
2-16. FRAME SUB-ASSY DISASSEMBLY

①

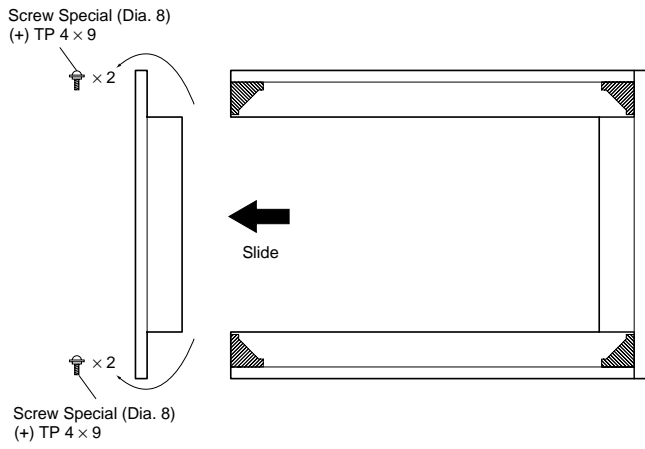




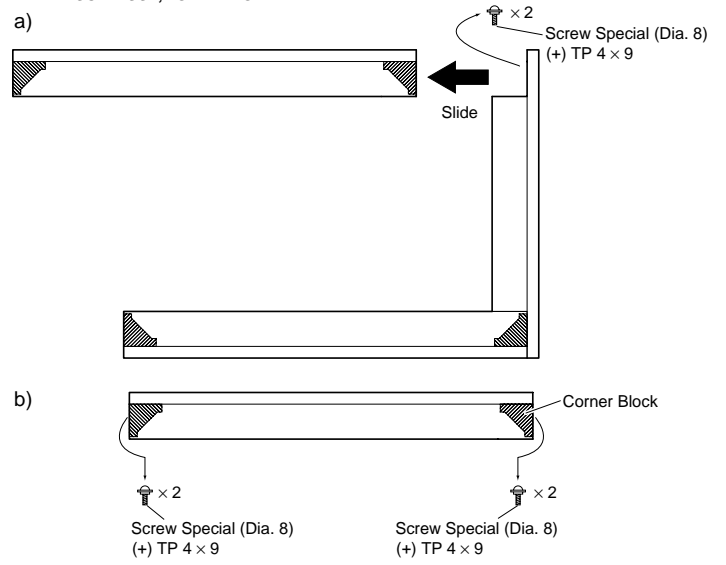
FRAME SUB ASSY, RIGHT REMOVAL



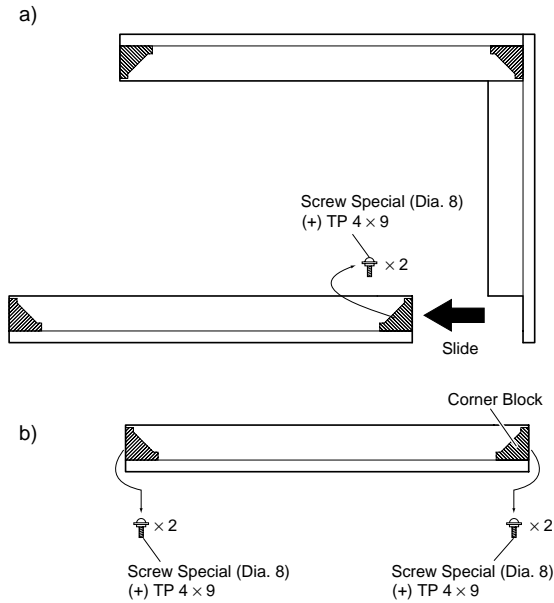
FRAME SUB ASSY, LEFT REMOVAL



FRAME SUB ASSY, TOP REMOVAL



FRAME SUB ASSY, BOTTOM REMOVAL

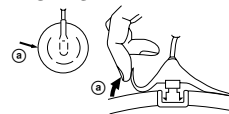


NOTE : When replacing the Frame Sub-Assy Top and Bottom, fix the original corner block to the new part.

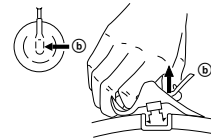
•REMOVAL OF ANODE-CAP

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.

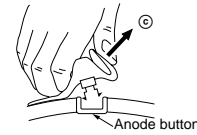
•REMOVING PROCEDURES



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



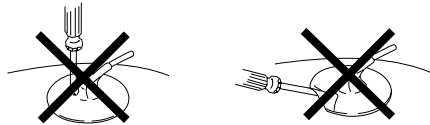
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).



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

• HOW TO HANDLE AN ANODE-CAP

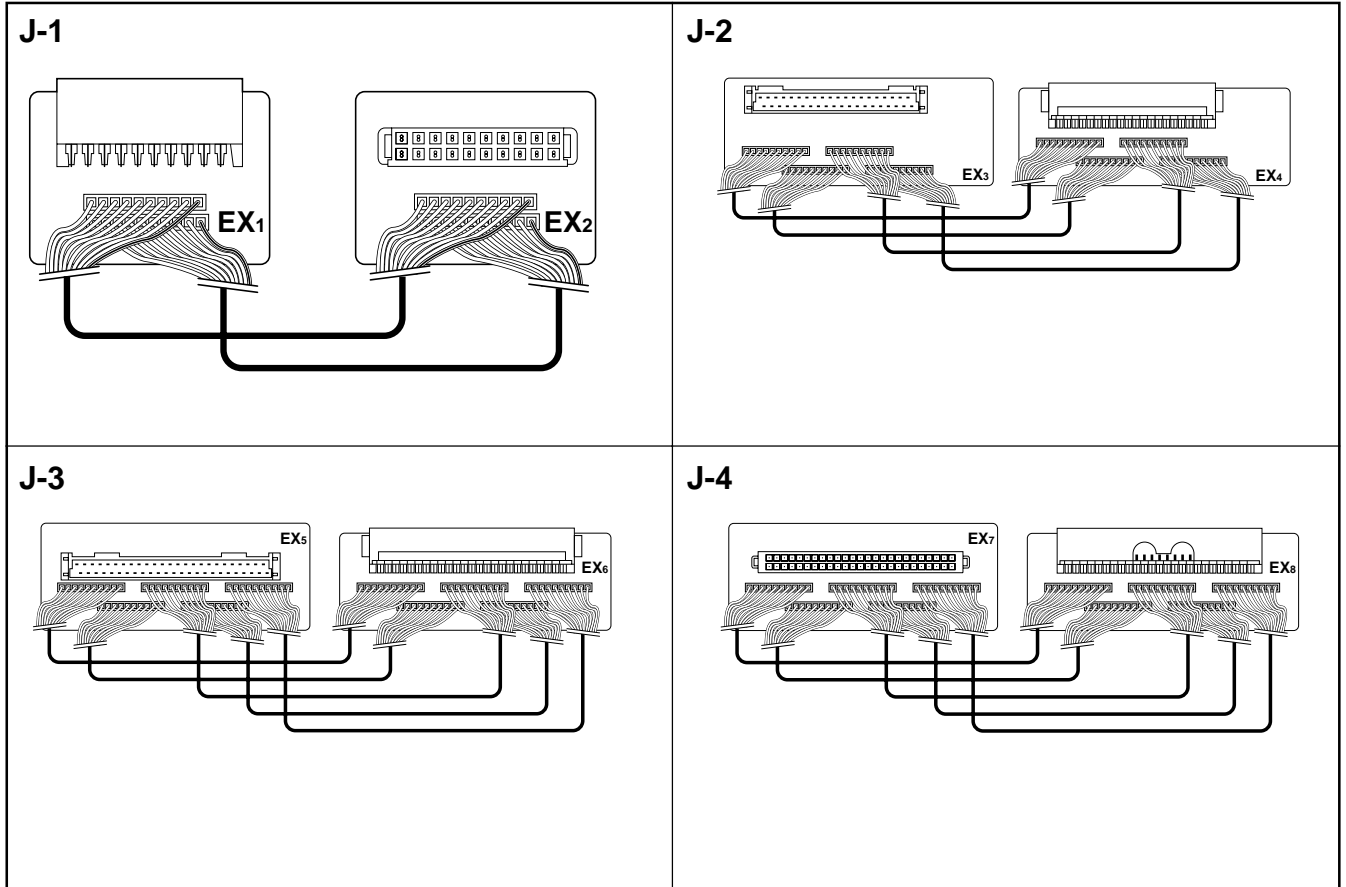
- ① Do not damage the surface of anode-caps with sharp shaped objects.
- ② Do not press the rubber too hard so as not to damage the inside of anode-cap. A metal fitting called the shatter-hook terminal is built into the rubber.
- ③ Do not turn the foot of rubber over too hard. The shatter-hook terminal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



SECTION 3 SERVICE JIG

3-1. JIGS REQUIRED FOR SERVICING

REF NO.	DESCRIPTION	PART NO.	REMARK
J-1	TOOL (20P), SERVICE	3-702-763-01	For A to V board extension
J-2	TOOL (40P), SERVICE	3-702-764-01	For A to E board extension
J-3	TOOL (50P-A), SERVICE	3-702-765-01	For A to B3 board extension
J-4	TOOL (50P-J), SERVICE	3-702-766-01	For A to J board extension For D to D1 board extension



SECTION 4 SET-UP ADJUSTMENTS

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

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

PICTURE control normal
 BRIGHTNESS control normal

Perform the adjustments in the following order :

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

Note : Test Equipment Required.

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

Preparation :

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

4-1. BEAM LANDING

1. Input a white signal with the pattern generator.
 Contrast } normal
 Brightness }
2. Position neck assy as shown in Fig4-1.
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 4-1 through 4-3.)
5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 4-2.)
6. Switch the raster signal to blue, then to green 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 4-4.)

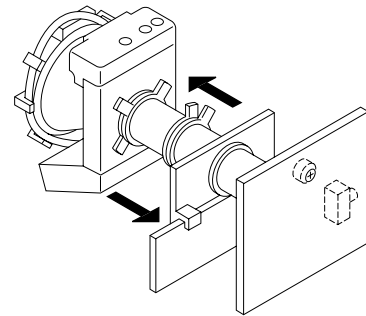


Fig. 4-2

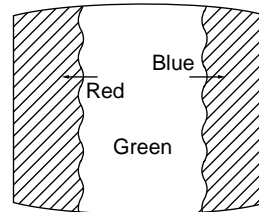


Fig. 4-3

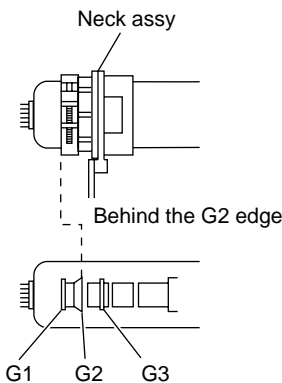


Fig. 4-1

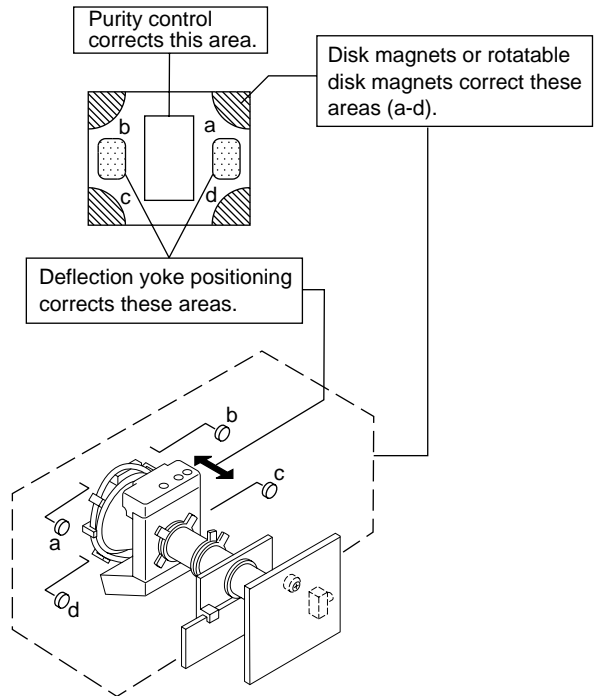


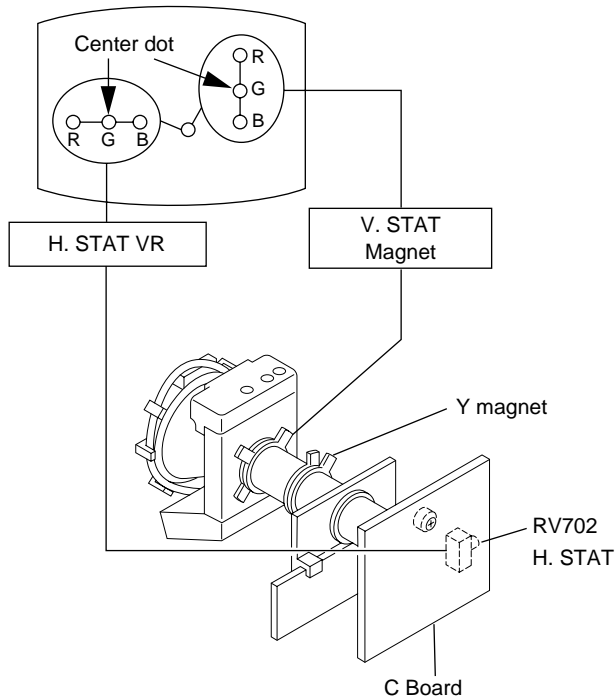
Fig. 4-4

4-2. CONVERGENCE ADJUSTMENT

Preparation :

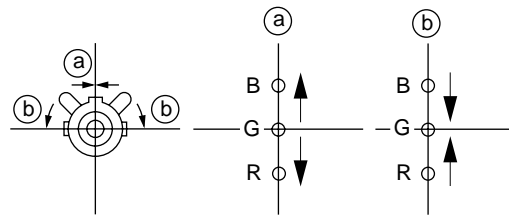
- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Set the Picture Mode to "STANDARD".
- Cross hatch / Dot pattern.

(1) Horizontal and Vertical Static Convergence

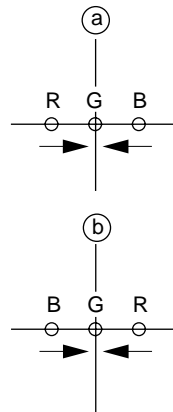


1. (Moving horizontally), adjust the H.STAT control so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
3. Adjust Horizontal Trapezoid with "DAC 04 HTR" in Service Mode to make H-Trapezoid distortion best.
4. 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.)

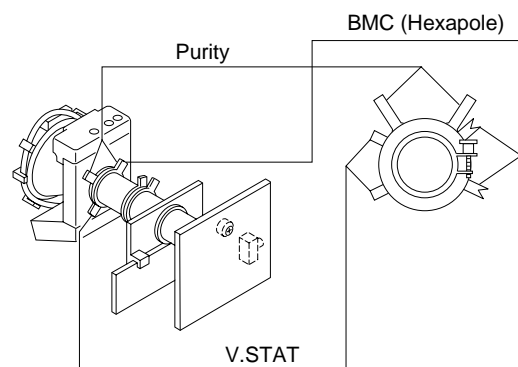
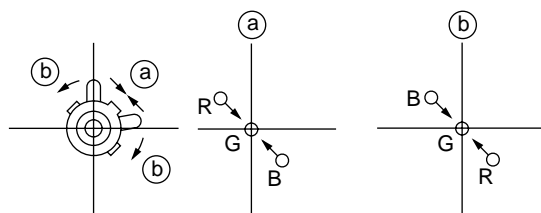
① V. STAT



② H. STAT VR

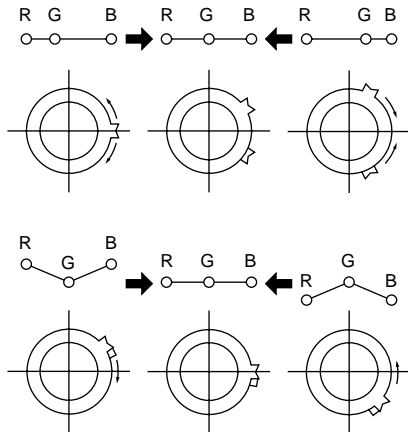


③



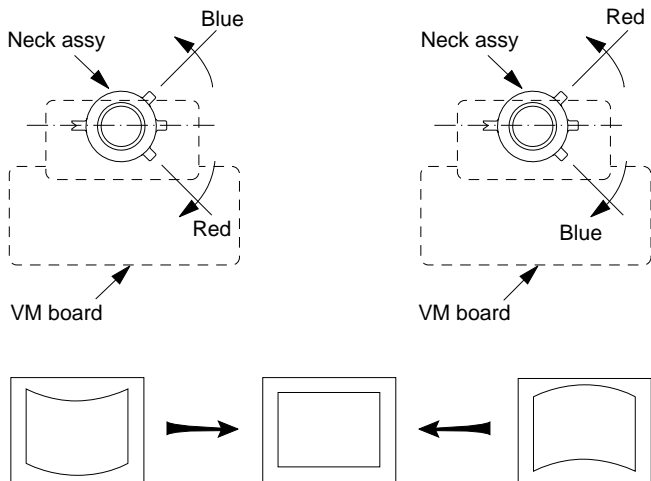
④ BMC (Hexapole) Magnet.

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



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.



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)

(2) Dynamic Convergence Adjustment

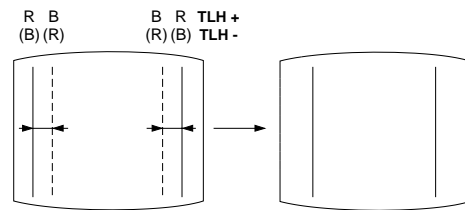
Preparation:

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence
- Set the PICTURE and BRIGHTNESS to normal.

1. Adjust TLH. (TLH correction piece)

- ① Receive the dot/hatch pattern signal and adjust picture quality by the menu.
- ② Correct horizontal mis-convergence of red and blue of both sides on the X axis.

When red is outside insert BMC magnet to right side (THL+) views from DY neck. And when blue is outside, insert it to left side (THL-) and take both sides.

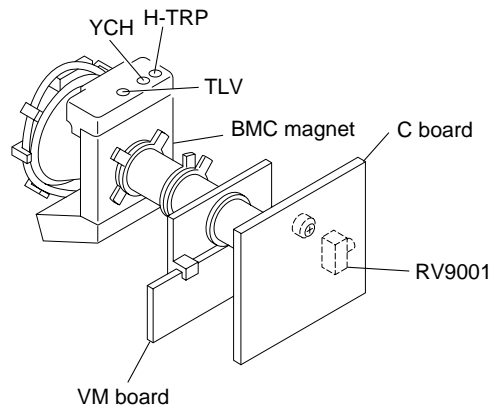


2. Adjust V TILT-TLV (TLV2 29" & TLV 34")

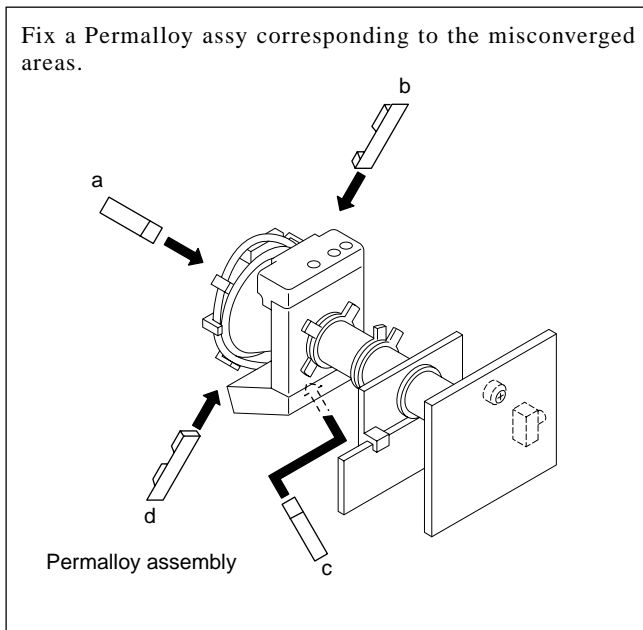
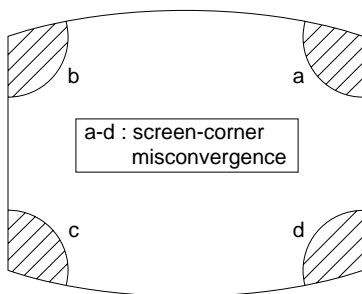
Correct the vertical mis-convergence of red and blue of vertically sides on the Y axis.

3. Adjust YCH.

Adjust horizontal mis-convergence of red and blue of vertically sides on the Y axis. Mentioned above steps 2 to 4 are adjusting respectively perform minuteness tracking.



(3) Screen-corner Convergence

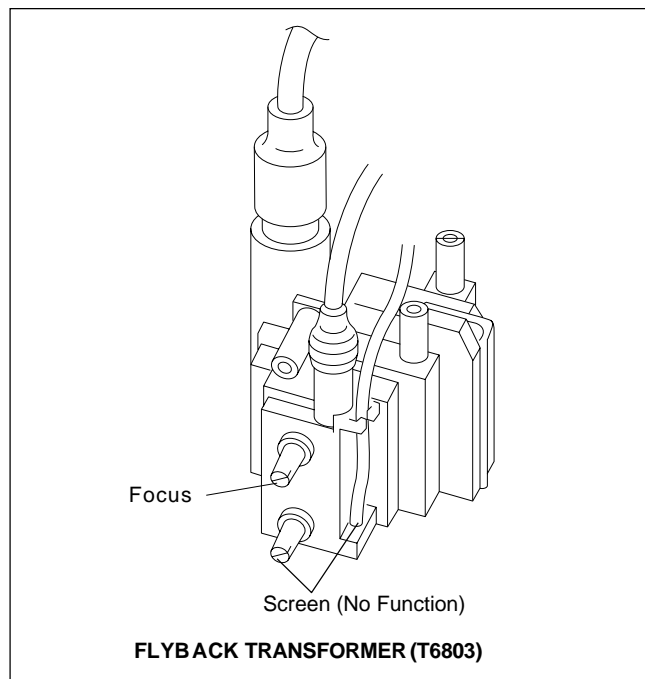


4-3. FOCUS ADJUSTMENT

Note

Focus adjustment should be completed before W/B adjustment.

- (1) Receive digital monoscope pattern.
- (2) Set "A/V CONTROL" to "STANDARD".
- (3) Adjust FOCUS VR so that the center of the screen becomes justfocus.
- (4) Change the receiving signal to white pattern and blue back.
- (5) Confirm MAGENTA RING should not be over the limit.
In case MAGENTA RING is over the limit, adjust FOCUS VR to take tracking of MAGENTA RING and FOCUS.



4-4. NECK ASSY TWIST ADJUSTMENT

- (1) Receive dot/hatch pattern.
- (2) Turn FOCUS VR fully counter-clockwise.
- (3) Confirm the dot shape at the screen center. (Fig. 4-4)
- (4) Resume FOCUS VR.

Note

In case of turning NECK ASSY, loosen the screw 3 turns. Do not move the position.

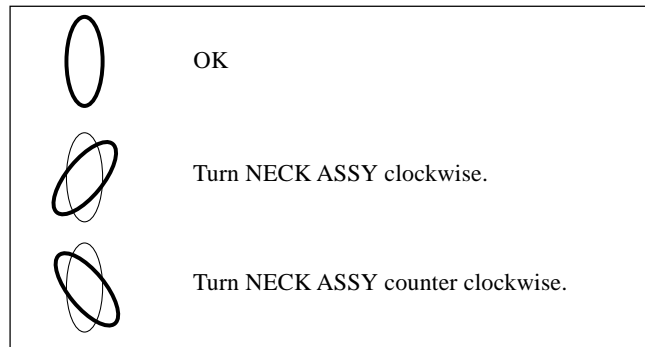
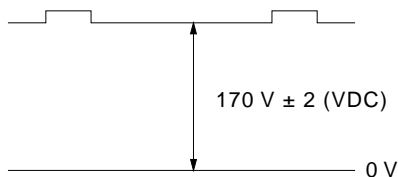


Fig. 4-4

4-5. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT

- 1) Set the PICTURE and BRIGHTNESS to normal.
- 2) Put to VIDEO input mode without signals.
- 3) Connect R, G and B of the C board cathode to the oscilloscope.
- 4) Adjust BRIGHTNESS to obtain the cathode voltage to the value below.
- 5) Whilst watching the picture, adjust the Screen VR (RV9002) located on the C board to the point just before the flyback return lines disappear (to the point before cut-off).



2. WHITE BALANCE ADJUSTMENT

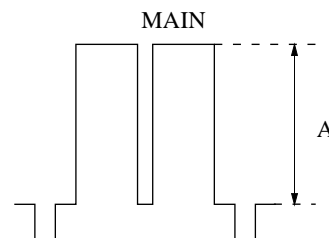
- 1) Set to Service Mode (Refer Section 5-1: ADJUSTMENTS WITH COMMANDER).
- 2) Input white raster signal.
- 3) Set the following condition.
PICTURE minimum, BRIGHTNESS 50%
- 4) Select GCT (WHB 7) and BCT (WHB 8) with **[1]** and **[4]**, and adjust the level with **[3]** and **[6]** for the best white balance.
- 5) Set the PICTURE to maximum.
- 6) Select GDR (WHB 4) and BDR (WHB 5) 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 PICTURE BRIGHTNESS ADJUSTMENT

- 1) Tune RF PAL white signal at program No. 1 and No. 2.
- 2) Select "TWIN PICTURE" mode.
- 3) Receive different RF PAL white signals in MAIN and Sub picture.
- 4) Adjust RV3300 on A PWB, so that the output from the 17 pin and 20 pin of the CN1180 becomes within the spec.

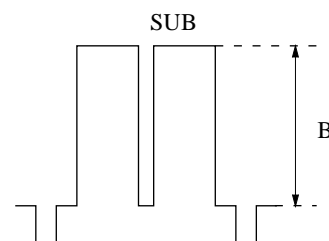
CVBS 1

17 pin



CVBS 2

20 pin



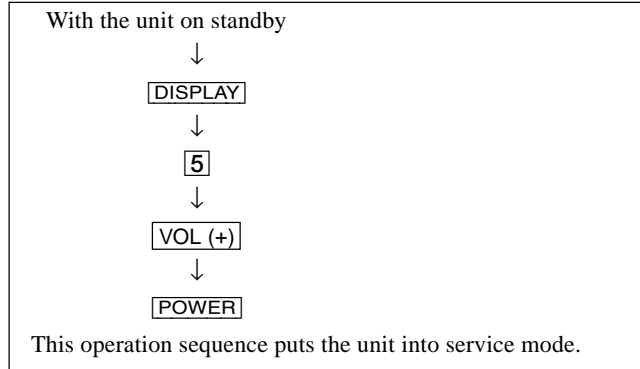
Spec: $|A - B| \leq \pm 20\text{mV}$

SECTION 5 CIRCUIT ADJUSTMENTS

5-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-916 and RM-958 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.

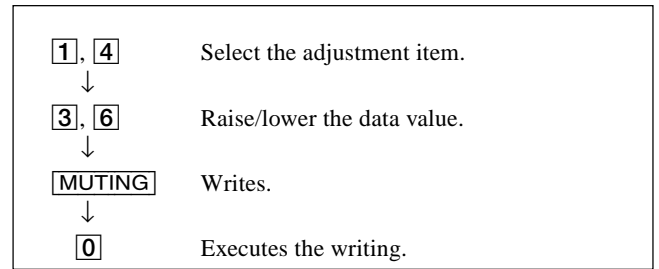
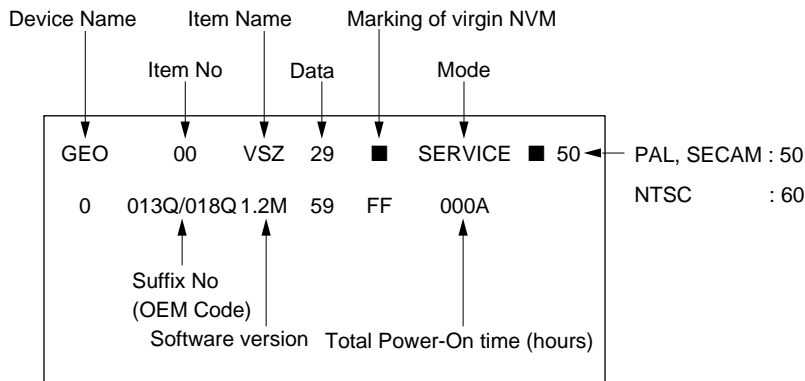
c. METHOD OF WRITE INTO MEMORY

- 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.

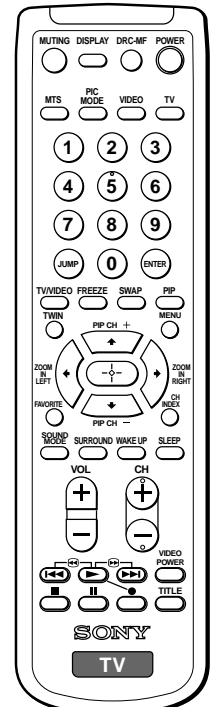
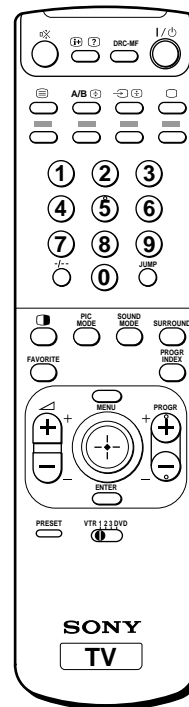
d. MEMORY WRITE CONFIRMATION METHOD

- 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 :



- [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.)
 [DISPLAY], [0] Write 50Hz adjustment data to 60Hz, or vice versa.
 [2], [0] Copy and write all data.

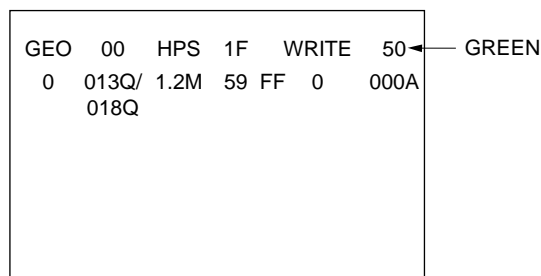
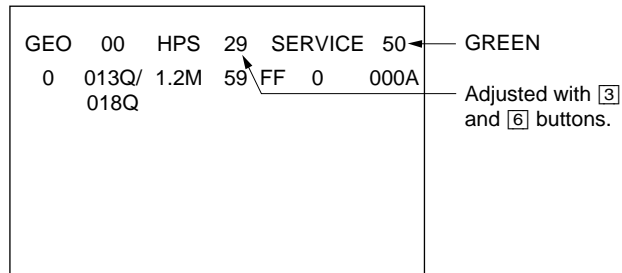


5-2. ADJUSTMENT METHOD

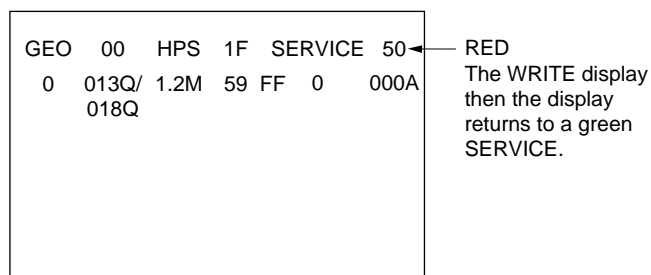
Item Number 00 of device GEO

This explanation uses H-Position as an example.

1. Select "GEO 00 VSZ" 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.)



Written with **[MUTING]**



Write executed with **[0]**

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

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

example:

```
GEO 00 HPS
↓
DAC 00 XXX
```

The buttons for the function above should be cursor +/-.

SERVICE LIST ITEM

TVG	Functionality		Function		Device
Category	No.	Name		Common	
WHB	00	CBO	DC OFFSET CANCELLER FOR CB1	0A	CXA2100AQ
	01	CRO	DC OFFSET CANCELLER FOR CR1	0A	
	02	SBR	SUB BRIGHTNESS CONTROL	22	
	03	RDR	R DRIVE	29	
	04	GDR	G DRIVE	25	
	05	BDR	B DRIVE	20	
	06	RCT	R CUTOFF	24	
	07	GCT	G CUTOFF	07	
	08	BCT	B CUTOFF	2F	
	09	SBO	SUB BRIGHTNESS OFFSET	1C	
	0A	RDO	R DRIVE OFFSET	1F	
	0B	GDO	G DRIVE OFFSET	1B	
	0C	BDO	B DRIVE OFFSET	1B	
	0D	RCO	R CUTOFF OFFSET	1F	
	0E	GCO	G CUTOFF OFFSET	20	
	0F	BCO	B CUTOFF OFFSET	14	

SERVICE LIST ITEM

TVG	Functionality		Function	Common	50			60			Twin	Index	Picture Mode				Eco Mode				Device Name			
	Category	No.			Name	TV	Video	DVD	TV	Video			DVD	Dynamic	Standard	Hi-Fine	Personal	Eco-On/NC	Eco-Off/NC	Eco-On/VC		Eco-Off/VC		
SAJ	00	PIC	PICTURE CONTROL										3F	32	28								CXA2100AQ	
	01	BRT	BRIGHTNESS CONTROL										23	1F	1B									
	02	COL	COLOR CONTROL										2E	1F	1F									
	03	HUE	HUE CONTROL										1F	1F	1F									
	04	SHP	SHARPNESS CONTROL										22	1F	1D									
	05	VML	VM LEVEL										03	03	01	03								
	06	DYC	DYNAMIC COLOR ON/OFF										01	01	00	01								
	07	CTM	COLOR TEMPERATURE FOR DYNAMIC COLOR										00	00	00	00								
	08	CAX	COLOR MATRIX SPECIFICATION		02	02	02	00	00	00														
	09	GMA	GAMMA CORRECTION										02	02	03	02								
	0A	DCT	DC TRANSMISSION CONTROL										01	01	00	01								
	0B	DPL	AUTO PEDESTAL LEVEL CONTROL										02	01	00	01								
	0C	ABM	ABL MODE CONTROL										01	00	00	00								
	0D	ABT	ABL CURRENT DETECTION VTH CONTROL															02	00	02	00			
0E	CLO	COLOR OFFSET		09	08		09	09																
0F	CLW	COLOR STEP WIDTH TO THE CHANGE OF S/N	03																					
10	HUO	HUE OFFSET		08	08		09	09																
11	SHO	SHARPNESS OFFSET		14	17	0F	0C	0F	0F															
12	SHW	SHARPNESS STEP WIDTH TO THE CHANGE OF S/N	01																					
13	PIO	PICTURE OFFSET FOR TWIN/INDEX								07	07													
14	BRO	BRIGHTNESS OFFSET															07	07	07	07				
JGL	00	PON	RGB AND AKB REFERENCE PULSE OUTPUT ON/OFF	01																			CXA2100AQ	
	01	RGB	RGB OUTPUT SELECTION	07																				
	02	AGG	AGING MODE SELECTION	00																				
	03	DPS	Y/C DELAY LINE PASS MODE SWITCH	00																				
	04	BBT	RGB BOTTOM LIMITTER CONTROL	03																				
	05	LML	RGB AMPLITUDE LIMITTER CONTROL	00																				
	06	PAB	DC LEVEL FOR PEAK ABL	0F																				
	07	SCO	SUB PICTURE CONTROL	08																				
	08	LV2	RGB LEVEL FOR RGB2	07																				
	09	SF0	SHARPNESS CIRCUIT F0		01	01	01	01	01	01														
	0A	PRO	PRE/OVER-SHOOT RATIO CONTROL		00	03	03	03	03	03														
0B	LTI	LUMINANCE TRANSIENT IMPROVEMENT										02	02	00	02									
0C	CTI	CHROMINANCE TRANSIENT IMPROVEMENT										01	01	00	01									

SERVICE LIST ITEM

TVG	Functionality		Function												Device Name	
	Category	No.		Name	Common	2D Comb	3D Comb	S-Input	Others	TV		Video		DVD		
50			60							50	60	50	60			
YCT	00	TNT	TINT ADJUSTMENT FOR NTSC							24	24	1F	1F			CXA2123Q (EXCEPT KV-ES34N90) (ONLY KV-ES34N90)
	01	PNG	PAL/NTSC GATE WIDTH	01												
	02	PNI	PAL/NTSC SENSITIVITY SW	00												
	03	SCL	SUB COLOR CONTROL							05	04	07	07			
	04	SCT	SUB CONTRAST CONTROL							08	07	07	07			
	04	SCT	SUB CONTRAST CONTROL							08	07	08	07			
	05	SF0	SHARPNESS CENTER FREQUENCY CHANGING	02												
	06	SEQ	SHARPNESS EQUALIZER CHARACTERISTIC	03												
	07	SHG	SHARPNESS GAIN CONTROL							05	06	05	06	07	07	
	08	YOL	Y-OUTPUT LEVEL CONTROL	1F												
	09	BSP	BLACK STRETCH START POINT CHANGING													
	0A	COL	CB/CR OUTPUT LEVEL CONTROL	1A												
	0B	DCR	DC RESTORATION RATIO ADJUSTMENT	00												
	0C	BF0	BPF/TQF F0 ADJUSTMENT	01												
	0D	BFQ	BPF/TQF Q ADJUSTMENT	02												
	0E	FSW	BPF/TQF SWITCH	01												
	0F	SDT	SECAM DOUBLE TRAP SWITCH	01												
	10	LPF	Y/CB/CR LPF SWITCH	01												
	11	YDL	Y-DL TIME ADJUSTMENT		06	05	03	05								
	12	CMT	CB/CR OUTPUT MUTE SWITCH	00												
	13	BO1	CB OFFSET1 ADJUSTMENT (MAIN ROUTE)	07												
	14	RO1	CR OFFSET1 ADJUSTMENT	07												
	15	CDF	V COUNT DOWN FREQUENCY SWITCH	00												
	16	CDM	V COUNT DOWN JUDGE SWITCH	00												
	17	AFC	AFC SENSITIVITY SWITCH									00	00	00	00	
	18	MVM	MACROVISION MASK + AFC MASK	00												
19	SRY	SECAM R-Y BLACK ADJUSTMENT	07													
1A	SBY	SECAM B-Y BLACK ADJUSTMENT	01													
1B	BEL	SECAM BELL/HPF SWITCHING	02													
1C	BLF	BELL F0 ADJUSTMENT	00													
1D	SVI	SECAM V-ID SWITCH	00													
1E	SGP	SECAM GATE POSITION ADJUSTMENT	00													
1F	SID	SECAM SENSITIVITY SWITCH	01													
20	SIH	SECAM INHIBITION SWITCH	00													
21	STP	Y BLACK LEVEL SETUP FOR PAL PLUS	00													
22	HVC	H-VCO TEMPERATURE CHARACTER CANCELLING	02													
23	3NR	3D NR OPERATION ON/OFF	01													
24	BW6	3D NR FOR 60Hz NON-BUST SIGNAL ON/OFF	01													
25	WSH	SHARPNESS GAIN STEP FOR NOISE REDUCTION	00													
26	WCO	DC RESTORATION RATIO ADJUSTMENT	00													

SERVICE LIST ITEM

TVG	Functionality		Function	Common	S-Input	Col Mode			TV		Video		DVD	Device Name
	Category	No.				Name	SECAM	NTSC	PAL	50	60	50		
SYC	00	TNT	TINT ADJUSTMENT FOR NTSC						21	21	20	20		CXA2123Q (EXCEPT KV-ES34N90) (ONLY KV-ES34N90)
	01	PNG	PAL/NTSC GATE WIDTH	01										
	02	PNI	PAL/NTSC SENSITIVITY SW	00										
	03	SCL	SUB COLOR CONTROL						06	06	07	07		
	03	SCL	SUB COLOR CONTROL						06	06	09	09		
	04	SCT	SUB CONTRAST CONTROL						08	07	08	07		
	05	SF0	SHARPNESS CENTER FREQUENCY CHANGING	02										
	06	SEQ	SHARPNESS EQUALIZER CHARACTERISTIC	03										
	07	SHG	SHARPNESS GAIN CONTROL	07										
	08	YOL	Y-OUTPUT LEVEL CONTROL	1F										
	09	BSP	BLACK STRETCH START POINT CHANGING	00										
	0A	COL	CB/CR OUTPUT LEVEL CONTROL	3C										
	0B	DCR	DC RESTORATION RATIO ADJUSTMENT	00										
	0C	BF0	BPF/TQF F0 ADJUSTMENT	01										
	0D	BFQ	BPF/TQF Q ADJUSTMENT	02										
	0E	FSW	BPF/TQF SWITCH	01										
	0F	SDT	SECAM DOUBLE TRAP SWITCH	01										
	10	LPF	Y/CB/CR LPF SWITCH	01										
	11	YDL	Y-DL TIME ADJUSTMENT		05	03	02	03						
	12	NCM	1-H ADDITION SWITCH	01										
	13	CMT	CB/CR OUTPUT MUTE SWITCH	00										
	14	BO1	CB OFFSET1 ADJUSTMENT (MAIN ROUTE)	07										
	15	RO1	CR OFFSET1 ADJUSTMENT	07										
16	CDF	V COUNT DOWN FREQUENCY SWITCH	00											
17	CDM	V COUNT DOWN JUDGE SWITCH	00											
18	AFC	AFC SENSITIVITY SWITCH								00	00	00		
19	MVM	MACROVISION MASK + AFC MASK	00											
1A	SRY	SECAM R-Y BLACK ADJUSTMENT	07											
1B	SBY	SECAM B-Y BLACK ADJUSTMENT	01											
1C	BEL	SECAM BELL/HPF SWITCHING	02											
1D	BLF	BELL F0 ADJUSTMENT	00											
1E	SVI	SECAM V-ID SWITCH	00											
1F	SGP	SECAM GATE POSITION ADJUSTMENT	00											
20	SID	SECAM SENSITIVITY SWITCH	01											
21	SIH	SECAM INHIBITION SWITCH	00											
22	STP	Y BLACK LEVEL SETUP FOR PAL PLUS	00											
23	HVC	H-VCO TEMPERATURE CHARACTER CANCELLING	02											

SERVICE LIST ITEM

TVG	Functionality		Function									Device Name	
Category	No.	Name		Common	Sur VDD	Sur VDP	Sur TRS	Sur SIM	Sur Off	Dynamic	Drama		Soft
AP	00	BAS	BASS CONTROL							0B	08	07	TDA7315
	01	TRE	TREBLE CONTROL							0B	09	07	
	02	LDN	LOUDNESS ON/OFF	01									
DSP	00	DUL	DIR UNLOCK DETECTION MODE	00									TC9446F
	01	DIM	DIGITAL INPUT MODE	03									
	02	TFM	TRUSURROUND FRONT MINUS		5A	5A							
	03	TFP	TRUSURROUND FRONT PLUS		12	12							
	04	TCE	TRUSURROUND CENTER		40	40							
	05	TS1	TRUSURROUND SURROUND #1		20	E0							
	06	TS2	TRUSURROUND SURROUND #2		20	20							
	07	TSP	TRUSURROUND SURROUND PLUS		68	68							
	08	TSM	TRUSURROUND SURROUND MINUS		68	68							
	09	LFE	LOW FREQUENCY EFFECT	5A									
	0A	BHL	BBE EFFECT 1 FOR BBE HIGH		33	33	33	28	40				
	0B	BHH	BBE EFFECT 2 FOR BBE HIGH		30	30	30	28	38				
	0C	BLL	BBE EFFECT 1 FOR BBE LOW		2B	2B	2B	24	33				
	0D	BLH	BBE EFFECT 2 FOR BBE LOW		29	29	29	24	30				
	0E	DLR	DELAY SELECTION AT DSP RESET	07									
	0F	BBE	BBE SELECTION							01	01	03	

TVG	Functionality		Function	Common	Device
Category	No.	Name			
MSP	00	WST	W/G STEREO THRESHOLD	15	MSP3415D
	01	WBT	W/G BILINGUAL THRESHOLD	EA	
	02	WLL	W/G MONO AURAL THRESHOLD	05	
	03	WAC	W/G AGREEMENT COUNT	01	
	04	WDL	W/G SEARCH DELAY	30	
	05	NDL	NICAM SEARCH DELAY	20	
	06	SDL	STEREO STATUS READ DELAY	10	
	07	AGC	AGC SWITCH AUTO/CONSTANT	01	
	08	REL	AGC GAIN AT CONSTANT MODE	28	
	09	CRM	CARRIER MUTING ON/OFF	00	
	0A	ACO	AUDIO CLOCK ON/OFF	01	
	0B	FP	FM PRESCALE FOR NON-M SYSTEM	1B	
0C	FPM	FM PRESCALE FOR M SYSTEM	32		
0D	FH	FM PRESCALE FOR HDEV	2D		
0E	FHM	FM PRESCALE FOR HDEV AND M	65		
0F	WGP	W/G PRESCALE	2A		
10	NIP	NICAM PRESCALE	6D		
11	ERR	AUTO FM SWITCH THRESHOLD	50		
12	VOL	LOUDSPEAKER GAIN 0700H TO 07FFH	6D		

SERVICE LIST ITEM

TVG	Functionality		Function	Common	Twin	TV	Video	Picture Mode				Device Name
	Category	No.						Name	Dynamic	Standard	Hi-Fine	
LTI	00	LDH	HISTOGRAM SEGMENT SELECTION	01								TDA9178 (EXCEPT KV-ES34N90) (ONLY KV-ES34N90) (EXCEPT KV-ES34N90) (ONLY KV-ES34N90)
	01	CFS	CONTOUR FILTER SELECTION	01								
	02	WLB	LETTERBOX WINDOW SWITCH	00								
	03	VDC	VIDEO DEPENDENT CORING					01	01	01	01	
	03	VDC	VIDEO DEPENDENT CORING					01	01		01	
	04	DEM	DEMONSTRATION MODE	00								
	05	CDP	LUMINANCE DELAY	04								
	06	OSP	OVERRULE SMART PEAKING	00								
	07	WPO	WHITE POINT STRETCH OFF	00								
	08	DSK	SKIN TONE SWITCH					00	00	00	00	
	08	DSK	SKIN TONE SWITCH					00	00		00	
	09	ASK	SKIN TONE ANGLE SELECTION	00								
	0A	WSK	SKIN TONE WIDTH SELECTION	00								
	0B	SSK	SKIN TONE SIZE SELECTION	00								
	0C	DGR	GREEN ENHANCEMENT SWITCH		00			01	01	00	01	
	0D	DGT	THRESHOLD OF GREEN ENHANCEMENT SWITCH	07								
	0E	GGR	GREEN ENHANCEMENT GAIN	00								
	0F	WGR	GREEN ENHANCEMENT WITDH	00								
	10	SGR	GREEN ENHANCEMENT SIZE	00								
	11	DBL	BLUE STRETCH SWITCH	00								
	12	GBL	BLUE STRETCH GAIN SELECTION	00								
	13	SBL	BLUE STRETCH SIZE SELECTION	00								
	14	CDS	COLOR DEPENDENT SHARPNESS					01	01	00	01	
	15	CST	THRESHOLD OF COLOR DEPENDENT SHARPNESS	07								
	16	CTI	COLOR TRANSIENT IMPROVEMENT					00	00	00	00	
	17	BON	BLACK OFFSET COMPENSATION					00	00	00	00	
18	BTD	ADAPTIVE BLACK STRETCH					00	00	00	00		
19	NLD	NON-LINEARITY AMPLIFIER		00			15	15	00	15		
1A	NLW	STEP WIDTH OF NON-LINEARITY AMPLIFIER	07									
1B	VGD	VARIABLE GAMMA		1F			1F	1F	1F	1F		
1C	VGW	STEP WITDH OF VARIABLE GAMMA	00									
1D	PKD	PEAKING AMPLITUDE					3F	30	0E	30		
1E	PKW	STEP WIDTH OF PEAKING AMPLITUDE	08									
1F	SPD	STEPNESS CORRECTION					00	00	00	00		
20	CRD	CORING LEVEL					16	16	00	16		
21	CRW	STEP WIDTH OF CORING LEVEL	09									
22	CRO	CORING LEVEL OFFSET FOR VIDEO MODE	01									
23	LWD	LINE WIDTH CORRECTION	1F									
24	SNM	S/N MODE UNDER UNREALIBLE S/N CONDITION	00									
25	SNC	S/N RATIO AVERAGE COUNTER			03	03						
26	FMC	FEATURE MODE MATCHING COUNTER	02									

SERVICE LIST ITEM

TVG	Functionality		Function	50				60					Device Name	
	Category	No.		Name	Single DRC 1250	PinP	TWIN	INDEX	Single DRC 100	Single DRC 1250	PinP	TWIN		INDEX
MID	00	HPH	HORIZONTAL ACTIVE DISPLAY AREA PHASE	52	52	92	8D	52	52	52	7E	78	52	MB94918
	01	VPH	VERTICAL ACTIVE DISPLAY AREA PHASE	20	20	2A	26	11	25	25	2E	2D	13	
	02	HSZ	HORIZONTAL ACTIVE DISPLAY AREA SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
	03	VSZ	VERTICAL ACTIVE DISPLAY AREA SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
	04	HPW	DISPLAY H-SYNC PLUS WIDTH	3F	3F	3F	3F	3F	3F	3F	3F	3F	3F	
	05	VPW	DISPLAY V-SYNC PLUS WIDTH	03	03	03	03	03	03	03	03	03	03	
	06	YDL	DISPLAY OUTPUT Y/C DELAY CORRECTION	00	00	00	00	00	00	00	00	00	00	
	07	MHP	MAIN PICTURE HORIZONTAL POSITION (SINGLE & PINP)	7F	7F			7F	7F	7F			7F	
	08	MVP	MAIN PICTURE VERTICAL POSITION (SINGLE & PINP)	7F	7F			7F	7F	7F			7F	
	09	MHS	MAIN PICTURE HORIZONTAL SIZE (SINGLE & PINP)	7F	7F			7F	7F	7F			7F	
	0A	MVS	MAIN PICTURE VERTICAL SIZE (SINGLE & PINP)	7F	7F			7F	7F	7F			7F	
	0B	PHP	PINP SUB PICTURE HORIZONTAL POSITION		6B						53			
	0C	PVP	PINP SUB PICTURE VERTICAL POSITION		5E						57			
	0D	PHS	PINP SUB PICTURE HORIZONTAL SIZE		7F						7F			
	0E	PVS	PINP SUB PICTURE VERTICAL SIZE		7F						7F			
	0F	PHO	PINP SUB PICTURE HORIZONTAL POSITION OFFSET		76						68			
	10	PVO	PINP SUB PICTURE VERTICAL POSITION OFFSET		6E						6B			
	11	TMP	TWIN MAIN PICTURE HORIZONTAL POSITION			00						00		
	12	TSP	TWIN SUB PICTURE HORIZONTAL POSITION											
	13	TVP	TWIN MAIN & SUB PICTURE VERTICAL POSITION											
	14	THS	TWIN MAIN & SUB PICTURE HORIZONTAL SIZE											
	15	TVS	TWIN MAIN & SUB PICTURE VERTICAL SIZE											
	16	THO	TWIN MAIN & SUB PICTURE HORIZONTAL POSITION OFFSET											
	17	TVO	TWIN MAIN & SUB PICTURE VERTICAL POSITION OFFSET											
	18	XHS	INDEX SUB PICTURE HORIZONTAL SIZE											
	19	XVS	INDEX SUB PICTURE VERTICAL SIZE											
	1A	XHG	INDEX HORIZONTAL GAP WIDTH BETWEEN PICTURES											
	1B	XVG	INDEX VERTICAL GAP WIDTH BETWEEN PICTURES											
	1C	XHP	INDEX 1ST SUB PICTURES HORIZONTAL POSITION											
	1D	XVP	INDEX 1ST SUB PICTURES VERTICAL POSITION											
	1E	DHP	DRC HORIZONTAL ACTIVE AREA POSITION	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
1F	DHS	DRC HORIZONTAL ACTIVE PIXEL SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F		

SERVICE LIST ITEM

TVG	Functionality		Function	50				60					Device Name	
	Category	No.		Name	Single DRC 1250	PinP	TWIN	INDEX	Single DRC 100	Single DRC 1250	PinP	TWIN		INDEX
MID	20	DVP	DRC VERTICAL ACTIVE AREA LINE POSITION	1A	1A	3F	3F	1A	1A	1A	39	39	1A	MB94918
	21	DVS	DRC VERTICAL ACTIVE AREA LINE SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	
	22	VHP	VDO HORIZONTAL ACTIVE AREA POSITION		7F	7F	7F			7F	7F	7F		
	23	VHS	VDO HORIZONTAL ACTIVE AREA PIXEL SIZE		7F	7F	7F			7F	7F	7F		
	24	VEP	VDO VERTICAL ACTIVE AREA EVEN POSITION		1E	1E	1E			1B	1B	1B		
	25	VVS	VDO VERTICAL ACTIVE AREA LINE SIZE		7F	7F	7F			7F	7F	7F		
	26	VOP	VDO VERTICAL ACTIVE AREA ODD POSITION		00	00	00			00	00	00		
	27	CLT	VDO CLAMP PULSE OUTPUT TIMING		7F	7F	7F			7F	7F	7F		
	28	CLW	VDO CLAMP PULSE WIDTH		04	04	04			04	04	04		
	29	VVD	VDO ANALOG INPUT Y/C DELAY CORRECTION		00	00	00			00	00	00		
	2A	VCR	VDO CROMA SIGNAL ORDER		01	01	01			01	01	01		
	2B	VDI	VDO DIGITAL ANALOG INPUT SELECTION		01	01	01			01	01	01		

SERVICE LIST ITEM

TVG	Functionality		Function											Device Name		
	Category	No.		Name	Common	TV	Video	NR Mode				Picture Mode				
							NRmode0	NRmode1	NRmode4	NRmode3	Dynamic	Standard	Hi-Fine	Personal		
3CM	00	FRZ	EXTERNAL MEMORY TEST BIT	00												UPD64082
	01	NRM	NOISE REDUCTION OPERATION MODE	00												
	02	YCO	Y/C SIGNAL OUTPUT SELECTION	0D												
	03	SYC	SYSTEM CLOCK SELECTION	01												
	04	STD	STANDARD/NON-STANDARD OPERATION SELECTION	00												
	05	MSS	INTER-FRAME/INTER-LINE OPERATION SELECTION	00												
	06	KIL	KILLER/NON-KILLER OPERATION SELECTION	03												
	07	EAD	EXTERNAL Y-ADC SWITCH	00												
	08	ECS	EXTERNAL C-SYNC INPUT SELECTION	01												
	09	CPP	ADC INPUT LEVEL & CLUMP PULSE WIDTH SELECTION	02												
	0A	PWR	ADC INPUT WIDTH SWITCH	00												
	0B	HDP	HORIZONTAL PHASE ADJUSTMENT	05												
	0C	CDL	C-SIGNAL ADJUSTMENT	04												
	0D	DYC	DY DETECTION CORING LEVEL ADJUSTMENT				02	02	02	04						
	0E	DYG	DY DETECTION GAIN ADJUSTMENT				0A	0A	0A	0A						
	0F	DCC	DC DETECTION CORING LEVEL ADJUSTMENT				05	03	03	05						
	10	DCG	DC DETECTION GAIN ADJUSTMENT				05	0A	0A	05						
	11	YNR	YNR NON-LINEAR FILTER SETUP	01												
	12	CNR	CNR NON-LINEAR FILTER SETUP	01												
	13	WSC	NOISE DETECTION CORING ADJUSTMENT	01												
	14	VTH	HYSTERESIS SELECTION FOR H-SYNC NON-STANDARD		01	01										
	15	VTR	SENSITIVITY SELECTION FOR H-SYNC NON-STANDARD		01	01										
	16	LDR	SENSITIVITY SELECTION FOR FRAME-SYNC NON-STANDARD		02	01										
	17	VAP	GAIN ADJUSTMENT FOR VERTICAL SHAPE CORRECTION								03	00	00	00		
	18	VAI	VANISHING ADJUSTMENT FOR VERTICAL SHAPE CORRECTION								0C	00	00	00		
	19	TST	TEST BIT	00												
	1A	YPF	CENTER FREQUENCY SELECTION FOR Y-PEAKING BPF								03	03	03	03		
	1B	YPG	GAIN ADJUSTMENT FOR Y-PEAKING BPF								0A	08	08	08		
	1C	VSE	LINE COMB FILTER SETUP	0A												
	1D	CCN	C-SIGNAL SPLIT FILTER SWITCH	00												
1E	COS	C-SIGNAL DELAY SWITCH AT NOISE REDUCTION	00													
1F	SDC	DC DETECTION SENSITIVITY SWITCH	00													

SERVICE LIST ITEM

TVG	Functionality		Function	Common	TV	Video	NR Mode				Picture Mode				Device Name
	Category	No.					Name	NRmode0	NRmode1	NRmode4	NRmode3	Dynamic	Standard	Hi-Fine	
3CM	20	SDY	DY DETECTION LOWER-LEVEL SENSITIVITY SWITCH	01										UPD64082 (EXCEPT KV-ES34N90) (ONLY KV-ES34N90) (EXCEPT KV-ES34N90) (ONLY KV-ES34N90)	
	21	D2G	D2 GAIN SELECTION	04											
	22	YHC	Y-SIGNAL HIGHER-LEVEL CORING SELECTION	00					00	00	00	00			
	22	YHC	Y-SIGNAL HIGHER-LEVEL CORING SELECTION						00	00	00	00			
	23	YHG	Y-SIGNAL HIGHER-LEVEL GAIN SWITCH	00					00	00	00	00			
	23	YHG	Y-SIGNAL HIGHER-LEVEL GAIN SWITCH						00	00	00	00			
	24	SHT	NON-STANDARD DETECTION & H/V COUNTER TEST BITS	00											
	25	CLK	CLOCK TEST BITS	08											
	26	PLL	PLL FILTER SETUP	0D											
	27	KRF	KILLER DETECTION REFERENCE ADJUSTMENT	03											
	28	HSL	H-SYNC SLICE LEVEL ADJUSTMENT	0C											
	29	VSL	V-SYNC SLICE LEVEL ADJUSTMENT	08											
	2A	BPS	INTERNAL BURST GATE START POSITION ADJUSTMENT	04											
	2B	BPW	INTERNAL BURST GATE WIDTH ADJUSTMENT	0A											
	2C	ADC	ADC CLOCK DELAY SELECTION	03											
	2D	APD	ADC POWER-DOWN SWITCH	01											
	2E	NSD	NON-STANDARD DETECTION TEST BIT	01											
	2F	SPD	MEMORY POWER-DOWN SWITCH	02											
	30	CNT	CNR TEST BIT	00											
	2CM	00	APA	2D COMB APACON ON/OFF						01	00	00	00		CXA2069Q

TVG	Functionality		Function	Device		
	Category	No.		Name	50	60
DYC	00	SBH	H STATIC CONV1	1F	1F	CXA8070P
	01	YBU	H STATIC CONV2 UPPER	1F	1F	
	02	YBL	H STATIC CONV2 LOWER	1F	1F	
	03	RSA	H DYNAMIC CONV1 LEFT	1F	1F	
	04	LSA	H DYNAMIC CONV1 RIGHT	1F	1F	
	05	LUB	H DYNAMIC CONV2 TOP LEFT	1F	1F	
	06	LLB	H DYNAMIC CONV2 BOTTOM LEFT	1F	1F	
	07	RUB	H DYNAMIC CONV2 TOP RIGHT	1F	1F	
	08	RLB	H DYNAMIC CONV2 BOTTOM RIGHT	1F	1F	



SERVICE LIST ITEM

TVG	Functionality		Function	Device			
	Category	No.		Name	Common	50	60
TXT	00	TXH	TELETEXT HORIZONTAL POSITION	4B			SAA5261
	01	TXV	TELETEXT VERTICAL POSITION	0E			
OPM	00	OSH	OSD H POSITION	12			CXP750096 OPTION-MISC (EXCEPT KV-ES34N90) (ONLY KV-ES34N90) (EXCEPT KV-ES34N90) (ONLY KV-ES34N90) (EXCEPT KV-ES34N90) (ONLY KV-ES34N90) (EXCEPT KV-ES34N90) (ONLY KV-ES34N90) (EXCEPT KV-ES34N90) (ONLY KV-ES34N90)
	01	FW1	OSD ODD/EVEN FIELD WINDOW SETUP #1	00			
	02	FW2	OSD ODD/EVEN FILED WINDOW SETUP #2	03			
	03	OHO	OSD H POSITION OFFSET FOR INDEX	07			
	04	IL1	INDEX SUB-SCREEN OSD 1ST LINE VERTICAL POSITION		1F	1D	
	04	IL1	INDEX SUB-SCREEN OSD 1ST LINE VERTICAL POSITION		1C	19	
	05	IVO	INDEX SUB-SCREEN OSD VERTICAL OFFSET		2F	22	
	06	COM	COMB OPERATION SELECTION	00			
	07	APC	APC SWITCH MUTE	01			
	08	TSY	TV SYSTEM SELECTION UNDER SEARCHING WITH AUTO TV SYSTEM	00			
	08	TSY	TV SYSTEM SELECTION UNDER SEARCHING WITH AUTO TV SYSTEM	03			
	09	MUT	NO SIGNAL MUTE	00			
	09	MUT	NO SIGNAL MUTE	01			
	0A	AFM	AUTO FM SWITCH	01			
	0B	TVO	V-ANGLE CORRECTION TO PICTURE ROTATION	03			
0C	DBL	DISABLE BLUEBACK FUNCTION	01				
0C	DBL	DISABLE BLUEBACK FUNCTION	00				
0D	SSO	SPEED CH SEARCH SELECTION	01				
0E	TRP	MPEG/JPEG NOISE REDUCTION FOR EACH INPUT	00				
0F	SCH	CH SELECTION FOR SHIPPING CONDITION	7F				
10	SCA	CABLE/AIR SELECTION FOR SHIPPING CONDITION	01				
11	DMG	DISABLE MENU - OPERATION GUIDE	00				
OPB	00	OP1	OPTIONAL BITS 1(SEE THE SPECIFIED SHEET)	67			OPTION-BITS (EXCEPT KV-ES34N90)
	00	OP1	OPTIONAL BITS 1(SEE THE SPECIFIED SHEET)	07			(ONLY KV-ES34N90)
	01	OP2	OPTIONAL BITS 2 (SEE THE SPECIFIED SHEET)	13			(EXCEPT KV-ES34N90)
	01	OP2	OPTIONAL BITS 2 (SEE THE SPECIFIED SHEET)	19			(ONLY KV-ES34N90)

Abbreviation:

ECO	=	Eco Mode
VC	=	V-Compressed Mode
NC	=	Non-Compressed Mode
Sur	=	Surround
VDD	=	Virtual Dolby Digital
VDP	=	Virtual Dolby Prologic
TRS	=	Tru Surround
SIM	=	Simulated

NOTE

-  shaded items are fixed data.
-  no 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.

OPTION NOTE

COM Comb Operation Selection 00 = automatic operation (depends on color system status),
01 = no comb operation,
02 = forced 2D-comb operation,
03 = forced 3D-comb operation

TSY TV System Selection for Auto TV System 00 = B/G, 01 = I, 10 = D/K, 11 = M

SSO Speed CH Search Selection 00 = normal, 01 = 4 times, 10 = 6 times, 11 = 8 times

TRP MPEG/JPEG Noise Reduction

Input	–	–	TV	Video 1	Video 2	Video 3	Video 4	DVD
-------	---	---	----	---------	---------	---------	---------	-----

OP1 Items

Item	TOP	NICAM	HDEV	Reserved	–	DVD Input	AV Input	
KV-ES34M61(Thailand)	1	1	1	0	0	1	1	1
KV-ES34M61(Malaysia)	1	1	1	0	0	1	1	1
KV-ES34N90(Taiwan)	0	0	0	0	0	1	1	1

AV Input 00 = no AV Input, 01 = 1 AV Input, 10 = 3 AV Input, 11 = 4 AV Input

OP2 Items

Item	C-Text	Korean Stereo	Korean Mode	A-TVsys	US ST	SSV Model	OSD	Language
KV-ES34M61(Thailand)	0	0	0	1	0	0	1	1
KV-ES34M61(Malaysia)	0	0	0	1	0	0	1	1
KV-ES34N90(Taiwan)	0	0	0	1	1	0	0	1

5-3. PICTURE QUALITY ADJUSTMENTS**-H-TRAPIZIUM ADJUSTMENT**

1. Input a cross hatch/dot signal.
2. Adjust DAC 4 HTR to make H-Trapezoid distortion best.

SUB CONTRAST, SUB HUE, SUB COLOR

Adjustment condition

SAJ 00 PIC 3F
 06 DYC 0
 0E CLO 6
 10 HUO 7
 13 PIO 0

JGL 04 BBT 0
 05 LML 3

PICTURE QUALITY : HI-FINE
 ECO MODE : OFF
 WIDE MODE : OFF
 DRC-MF : DRC1250 (KV-ES34M61)
 DRC1050 (KV-ES34N90)

INPUT SIGNAL

Video Color Bar (White and Color 75%)
 RF Color Bar (White and Color 75%)

MEASUREMENT POINT

VR ; R100 (the pin 6 of CN1100 at A board)
 VB ; B100 (the pin 7 of CN1100 at A board)

CAUTION

After the above Adjustment, these adjustment parameters must be recovered to the original condition.

Original condition

SAJ 00 PIC 28 HI-FINE
 SAJ 06 DYC 0 HI-FINE

	50 TV	50 VIDEO	60 TV	60 VIDEO
OE CLO	9	8	9	9
10 HUO	8	8	9	9

13 PIO TWIN = 5
 JGL 04 BBT 3
 05 LML 0

1. NTSC VIDEO INPUT

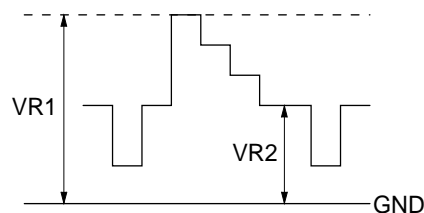
Input signal ; NTSC color bar, 75% to Video 1.
 [TWIN] mode, [Service] mode.

(i) SUB CONTRAST

Condition : SAJ 00 PIC 3F
 02 COL 0
 JGL 01 RGB 4
 SAJ 13 PIO 0

Adjusting parameter:

LEFT ; YCT 08 YOL
 RIGHT ; SYC 08 YOL



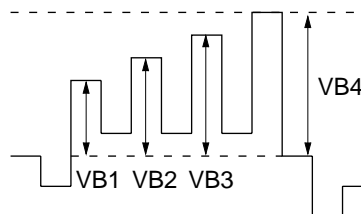
$$VR1 - VR2 = 1.85 \pm 0.07 (V_{p-p})$$

(ii) SUB HUE/SUB COL

Condition : SAJ 02 COL 1F
 JGL 01 RGB 7
 SAJ 10 HUO 7

Adjusting parameter:

LEFT ; YCT 0A COL
 YCT 00 TNT
 RIGHT ; SYC 0A COL
 SYC 00 TNT



$$VB1 = VB4 \pm 70 \text{ mV}$$

$$VB2 = VB3 \pm 70 \text{ mV}$$

2. NTSC RF INPUT

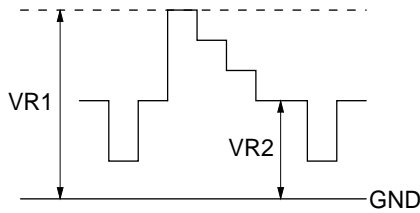
Input signal ; NTSC RF color bar, 75%.
[TWIN] mode, [Service] mode.

(i) SUB CONTRAST

Condition : SAJ 00 PIC 3F
 02 COL 0
 JGL 01 RGB 4

Adjusting parameter:

LEFT ; YCT 04 SCT
RIGHT ; SYC 04 SCT



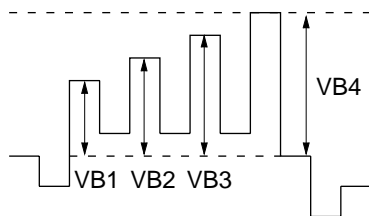
$VR1 - VR2 = 1.85 \pm 0.07 (V_{p-p})$

(ii) SUB HUE/SUB COL

Condition : SAJ 02 COL 1F
 JGL 01 RGB 7
 SAJ 10 HUO 7

Adjusting parameter:

LEFT ; YCT 03 SCL
 YCT 00 TNT
RIGHT ; SYC 03 SCL
 SYC 00 TNT



$VB1 = VB4 \pm 70 \text{ mV}$
 $VB2 = VB3 \pm 70 \text{ mV}$

3. PAL RF INPUT (KV-ES34M61 ONLY)

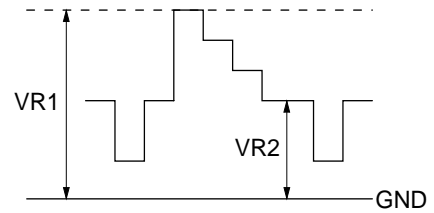
Input signal ; PAL RF color bar, 75%.
[TWIN] mode, [Service] mode.

(i) SUB CONTRAST

Condition : SAJ 00 PIC 3F
 SAJ 02 COL 0
 JGL 01 RGB 4

Adjusting parameter:

LEFT ; YCT 04 SCT
RIGHT ; SYC 04 SCT



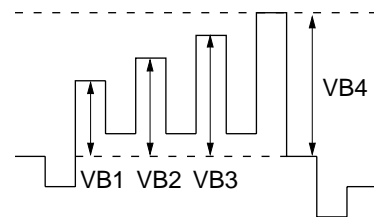
$VR1 - VR2 = 1.85 \pm 0.07 (V_{p-p})$

(ii) SUB HUE/SUB COL

Condition : SAJ 02 COL 1F
 JGL 01 RGB 7

Adjusting parameter:

LEFT ; YCT 03 SCL
RIGHT ; SYC 03 SCL



$VB2 = VB3 = VB4 = \pm 70 \text{ mV}$

5-4. DEFLECTION ADJUSTMENTS**FOR DRC 1250 (KV-ES34M61)/DRC1050 (KV-ES34N90)**

- Set to Service Mode.
- Input a Pal cross hatch/dot signal.
- Set the following condition.
Picture Mode to **[DYNAMIC]**, Picture Rotation to **[+/- 0]** and Eco Mode to OFF.
- Set to DRC 1250 mode. (KV-ES34M61)/
DRC 1050 mode. (KV-ES34N90)
- Using the **[1]** and **[4]** buttons select category GEO (Service Mode).
- Select and adjust the following items to obtain optimum image.
Raise/lower the data with the **[3]** and **[6]** buttons.

1	00	VSZ	V SIZE
2	04	HSZ	H SIZE
3	01	VPS	V POSITION
4	05	HPS	H POSITION
5	03	SCO	S CORRECTION
6	02	VLN	V LINEARITY
7	0B	BOW	AFC BOW
8	06	PAP	PIN AMP
9	07	UPN	UPPER CORNER PIN
10	08	LPN	LOWER CORNER PIN
11	09	TRZ	TRAPEZIUM

- Using the **[1]** and **[4]** buttons select category DAC (Service Mode).
- Select and ad List the following items to obtain optimum image.
Raise/lower the data with the **[3]** and **[6]** buttons.

1	01	HLN	H LINEARITY
2	00	HCT	H CENTER

- Select "GEO 04 HSZ" with the **[1]** and **[4]** buttons.
- Confirm the H Size condition. If necessary, adjust the H SIZE to get a best condition.
- Write into the memory by pressing **[MUTING]** then **[0]**.

FOR DRC 100 MODE (KV-ES34M61), PROGRESSIVE MODE (KV-ES34N90)

- Set to DRC 100 mode.
- Repeat Step 5, Step 6 and Step 7.
- Write "DAC 00 HCT DRC 100 Mode" as "DAC 00 HCT DRC 1250 Mode".
Write "DAC 01 HLN DRC 100 Mode" as "DAC 01 HLN DRC 1250 Mode".

FOR PIP MODE

- Set to PIP mode.
- Repeat Step 5 and Step 6.
- Write into the memory by pressing **[MUTING]** then **[0]**.

FOR TWIN MODE

- Set to TWIN Mode.
- Using the **[1]** and **[4]** buttons select category GEO (Service Mode).
- Select and adjust the following items to obtain optimum image.
Raise/lower the data with the **[3]** and **[6]** buttons.

1	01	VPS	V POSITION
2	05	HPS	H POSITION
3	06	PAP	PIN AMP
4	09	TRZ	TRAPEZIUM

- Write into the memory by pressing **[MUTING]** then **[0]**.

FOR INDEX MODE

- Set to Index Mode.
- Repeat Step 5 and Step 6.
- Write into the memory by pressing **[MUTING]** then **[0]**.

FOR WIDE MODE

- Set to WIDE Mode.
- Using the **[1]** and **[4]** buttons select category GEO (Service Mode).
- Select and adjust the following items to obtain optimum image.
Raise/lower the data with the **[3]** and **[6]** buttons.

1	00	VSZ	V SIZE
2	01	VPS	V POSITION
3	05	HPS	H POSITION
4	06	PAP	PIN AMP
5	09	TRZ	TRAPEZIUM

- Input a NTSC cross hatch/dot signal and repeat all above steps.
(KV-ES34M61 only)

5-5. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

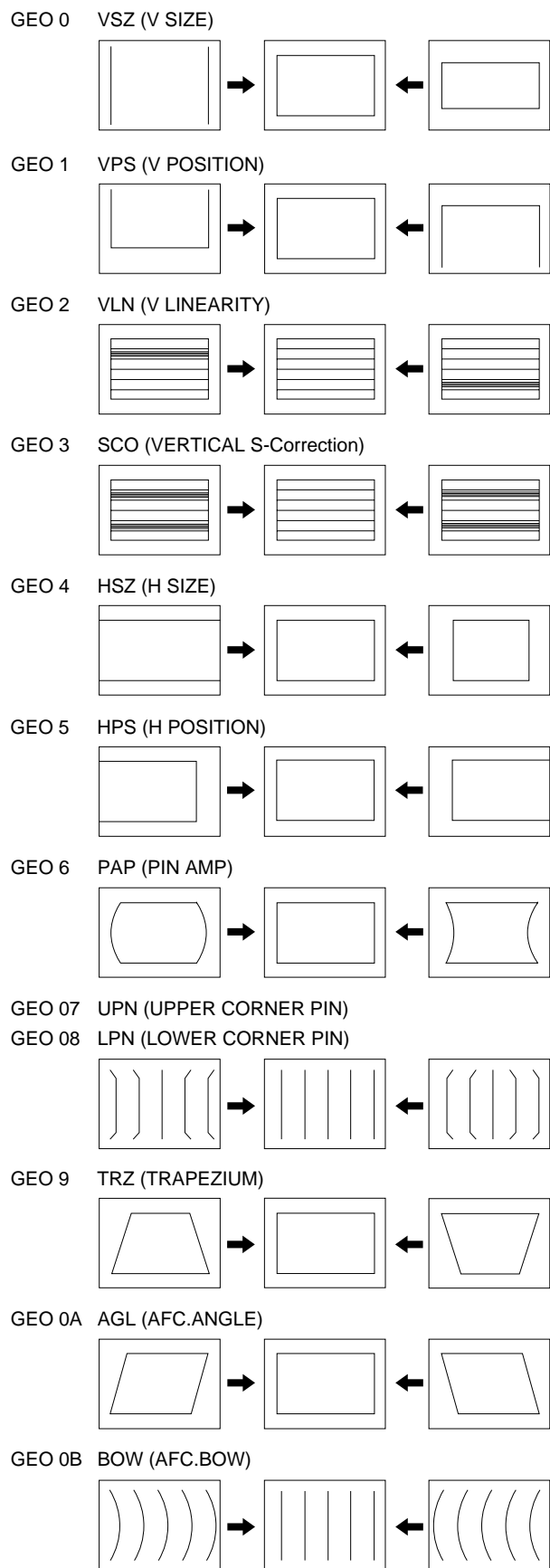
When replacing IC003 and IC004 (MEMORY), be sure to change IC001 (μ -COM) to the following at the same time.

MODEL	IC001 (μ -CON)
KV-ES34M61	CXP750096-013Q
KV-ES34N90	CXP750096-018Q

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 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.)

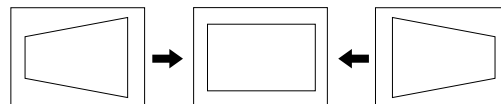
5-6. PICTURE DISTORTION ADJUSTMENT (1)

Item Number 00 – 0B

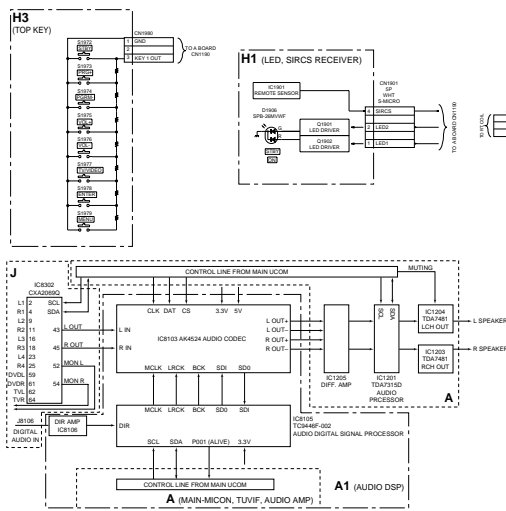
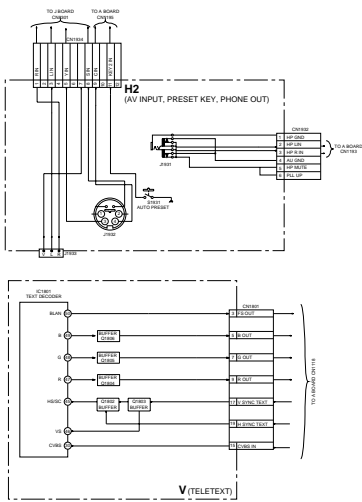


PICTURE DISTORTION ADJUSTMENT (2)

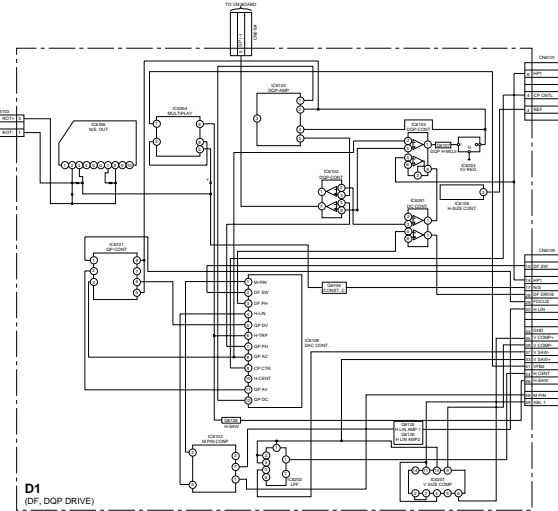
H-TRAPEZOID (DAC 4 HTR)

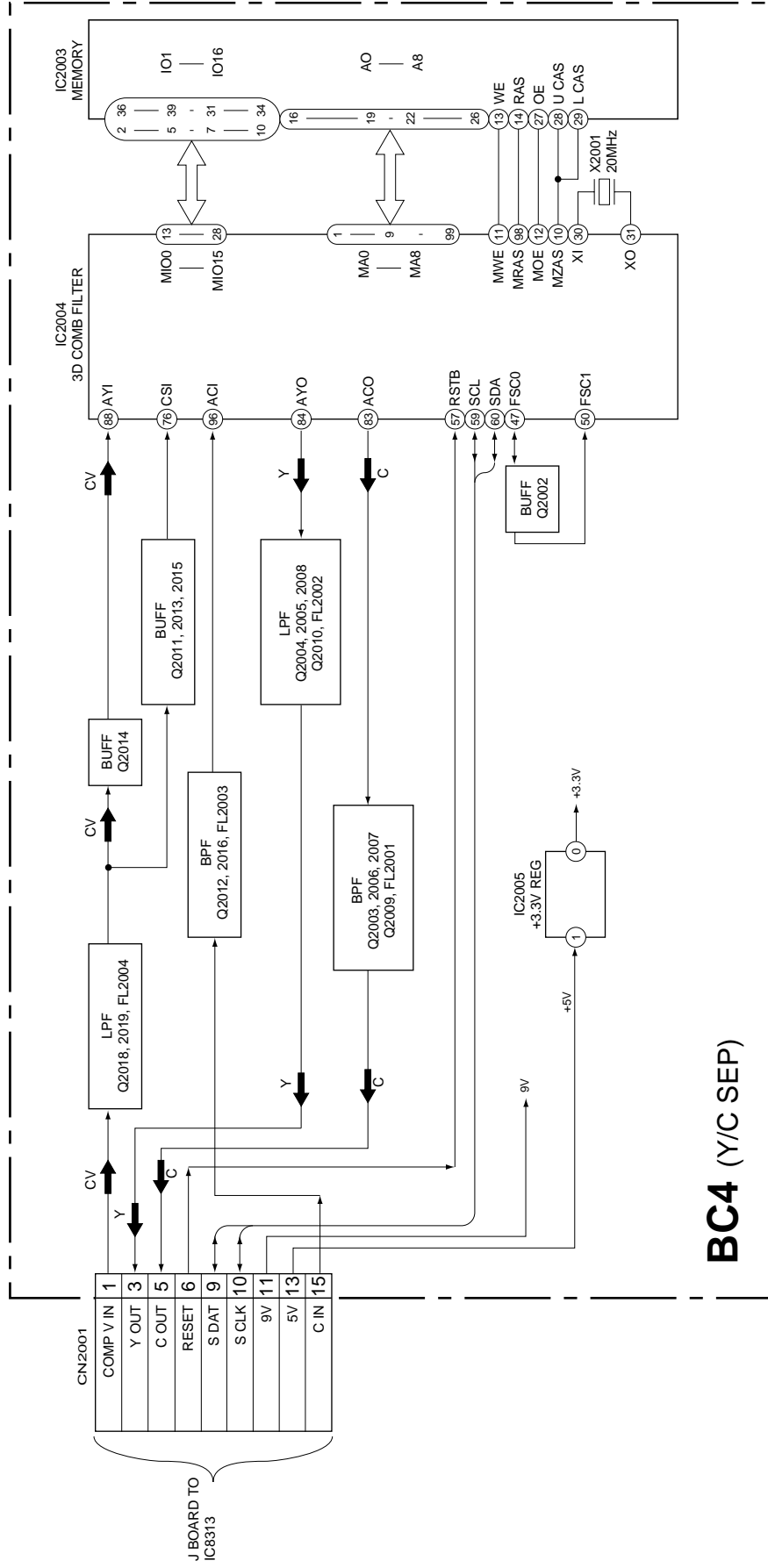


KV-ES34M61/ES34N90 RM-516 RM-555
 KV-ES34M61/ES34N90 RM-516 RM-555

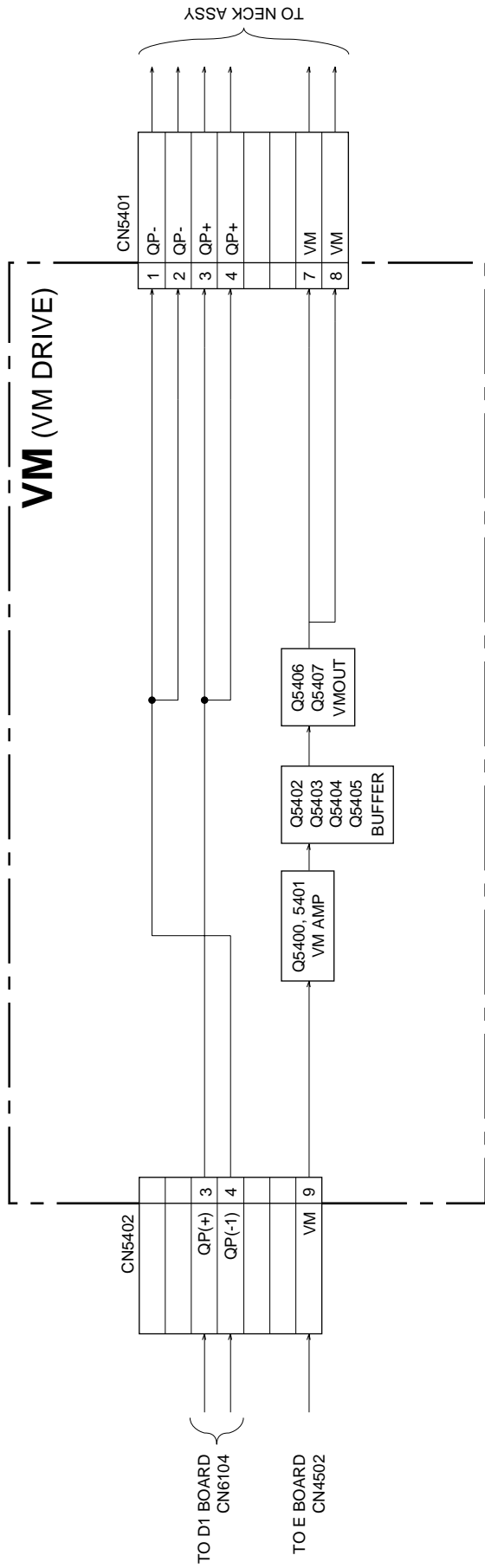


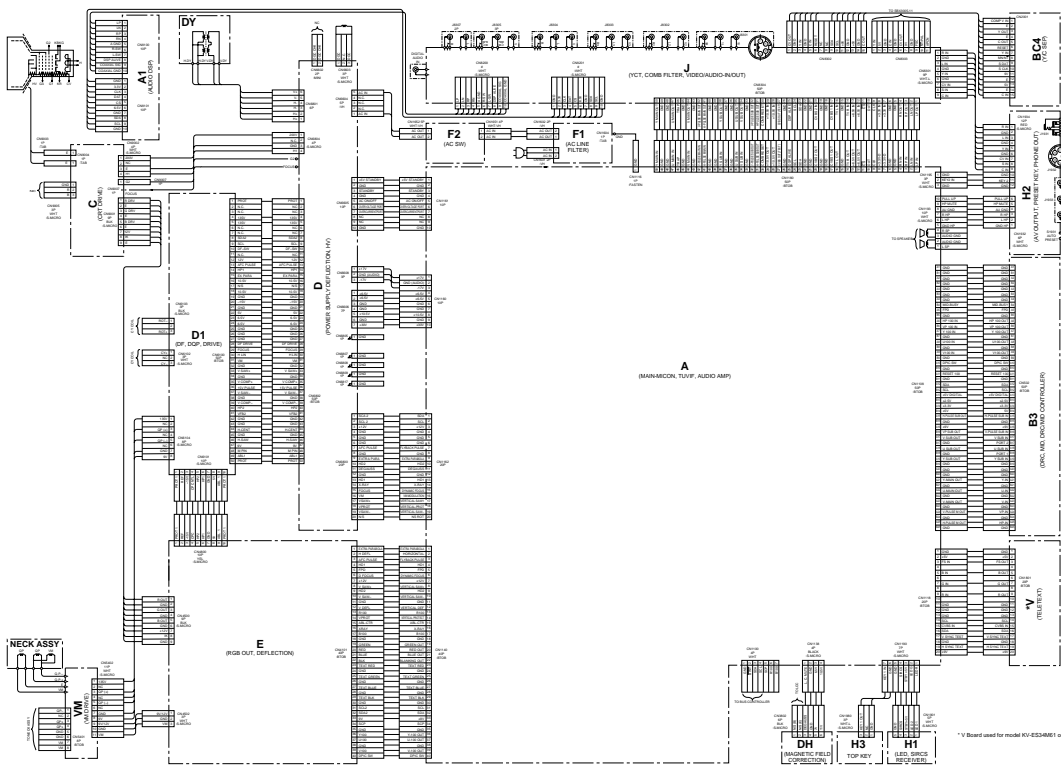
KV-ES34M61/ES34N90 RM-516 RM-555
 KV-ES34M61/ES34N90 RM-516 RM-555





BC4 (Y/C SEP)



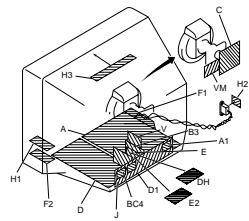


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- 114 -

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6-3. CIRCUIT BOARDS LOCATION



6-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitance are in μF unless otherwise noted.
- All electrolytic capacitors are rated at 50V unless otherwise noted.
- All resistors are in ohms.
- 1K = 1000; 1M = 1000K
- Indication of resistance which does not have rating electrical power is as follows:

F1000 5W
 (F1000 = nominal resistance)
 (5W = power dissipation 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
 () = NTSC 3.58
 E = NTSC 4.43

Readings are taken with a 10 000 digital multimeter.
 Voltages are dc with respect to ground unless otherwise noted.

- Voltage variations may be noted due to normal production tolerances.
- All voltages are to V.
- ∞ = Cannot be measured.
- Circled numbers are waveform references.
- WAVEFORM = 2 + 1 sec.
- WAVEFORM = 2 - 1 sec.
- = signal path.

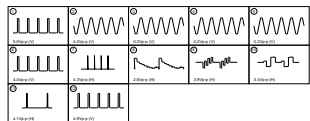
Reference information

RESISTOR	RE	METAL FILM
	RC	SOLID CARBON
	FFRC	NONFLAMMABLE CARBON
	FUSE	NONFLAMMABLE FUSE
	RS	NONFLAMMABLE METAL OX
	RS	NONFLAMMABLE CEMENT
	RSW	NONFLAMMABLE WIREWOL
	RIW	WIREWOL
	MI	MICRO INDUCTOR
	IF	INDUCTOR
	LF-4L	4 LAYER LAMINATE
	PS	POLYPROPYLENE
	TP	STYROL
	MP	METALIZED POLYESTER
	MPP	METALIZED POLYPROPYLE
	ALB	BIPO-LAR
	ACT	HIGH TEMPERATURE
	ALB	HIGH SUFFLE

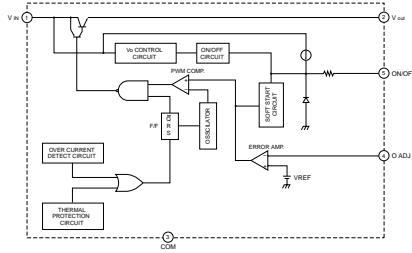
Note: The component identified by shading an asterisk * are critical for safety. Replace only with part number specified.

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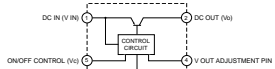
A BOARD WAVEFORMS



A BOARD IC385 PQC6052F

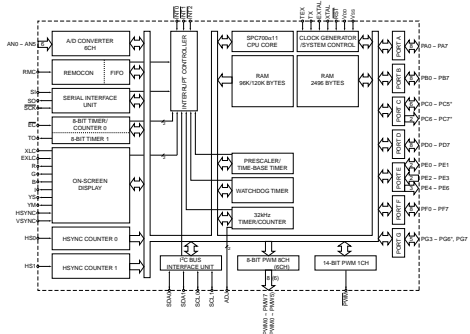


A BOARD IC2604 P05EVS3



A BOARD IC001 CXF750095-013Q (KV-ES34M61)

A BOARD IC001 CXF750095-019Q (KV-ES34N96)



A BOARD MARK LIST

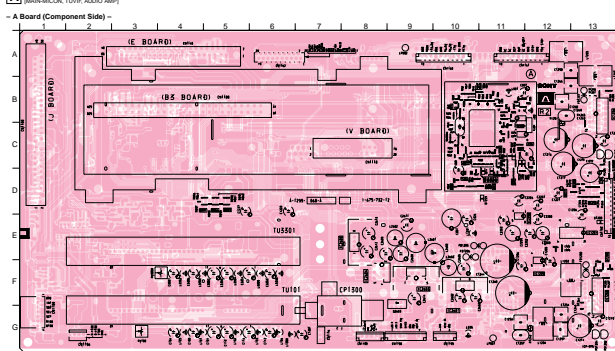
MARK	IC	TRANSISTOR	DIODE
IC001	CXF750095-013Q	Change	Change
IC002	P05EVS3	220 200P	220 200P
IC003	PQC6052F	220 200P	220 200P
IC004	ES34M61	220 200P	220 200P
IC005	ES34N96	220 200P	220 200P
IC006	ES34M61	220 200P	220 200P
IC007	ES34N96	220 200P	220 200P
IC008	ES34M61	220 200P	220 200P
IC009	ES34N96	220 200P	220 200P
IC010	ES34M61	220 200P	220 200P
IC011	ES34N96	220 200P	220 200P
IC012	ES34M61	220 200P	220 200P
IC013	ES34N96	220 200P	220 200P
IC014	ES34M61	220 200P	220 200P
IC015	ES34N96	220 200P	220 200P
IC016	ES34M61	220 200P	220 200P
IC017	ES34N96	220 200P	220 200P
IC018	ES34M61	220 200P	220 200P
IC019	ES34N96	220 200P	220 200P
IC020	ES34M61	220 200P	220 200P
IC021	ES34N96	220 200P	220 200P
IC022	ES34M61	220 200P	220 200P
IC023	ES34N96	220 200P	220 200P
IC024	ES34M61	220 200P	220 200P
IC025	ES34N96	220 200P	220 200P
IC026	ES34M61	220 200P	220 200P
IC027	ES34N96	220 200P	220 200P
IC028	ES34M61	220 200P	220 200P
IC029	ES34N96	220 200P	220 200P
IC030	ES34M61	220 200P	220 200P
IC031	ES34N96	220 200P	220 200P
IC032	ES34M61	220 200P	220 200P
IC033	ES34N96	220 200P	220 200P
IC034	ES34M61	220 200P	220 200P
IC035	ES34N96	220 200P	220 200P
IC036	ES34M61	220 200P	220 200P
IC037	ES34N96	220 200P	220 200P
IC038	ES34M61	220 200P	220 200P
IC039	ES34N96	220 200P	220 200P
IC040	ES34M61	220 200P	220 200P
IC041	ES34N96	220 200P	220 200P
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IC045	ES34N96	220 200P	220 200P
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IC067	ES34N96	220 200P	220 200P
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IC098	ES34M61	220 200P	220 200P
IC099	ES34N96	220 200P	220 200P
IC100	ES34M61	220 200P	220 200P

A BOARD (Component Side)

IC	TRANSISTOR	DIODE
IC001	CXF750095-013Q	Change
IC002	P05EVS3	220 200P
IC003	PQC6052F	220 200P
IC004	ES34M61	220 200P
IC005	ES34N96	220 200P
IC006	ES34M61	220 200P
IC007	ES34N96	220 200P
IC008	ES34M61	220 200P
IC009	ES34N96	220 200P
IC010	ES34M61	220 200P
IC011	ES34N96	220 200P
IC012	ES34M61	220 200P
IC013	ES34N96	220 200P
IC014	ES34M61	220 200P
IC015	ES34N96	220 200P
IC016	ES34M61	220 200P
IC017	ES34N96	220 200P
IC018	ES34M61	220 200P
IC019	ES34N96	220 200P
IC020	ES34M61	220 200P
IC021	ES34N96	220 200P
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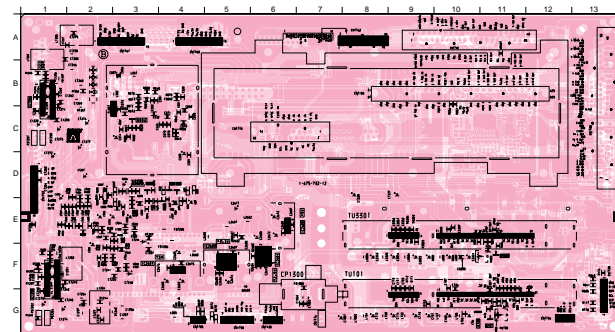
PRINTED WIRING BOARDS

A BOARD (Component Side)

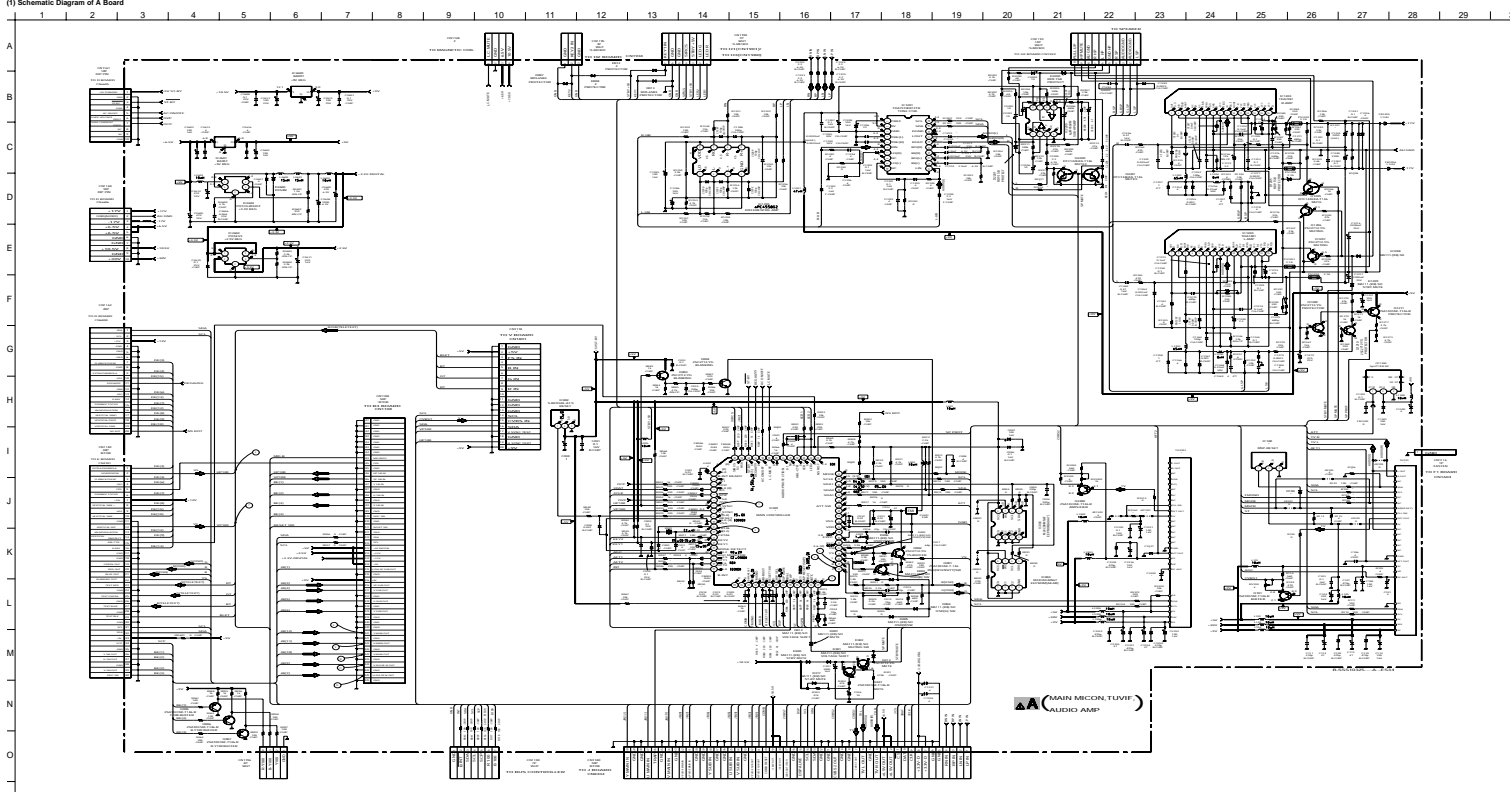


- Pattern from the side which enables seeing.
- Pattern from the rear side.

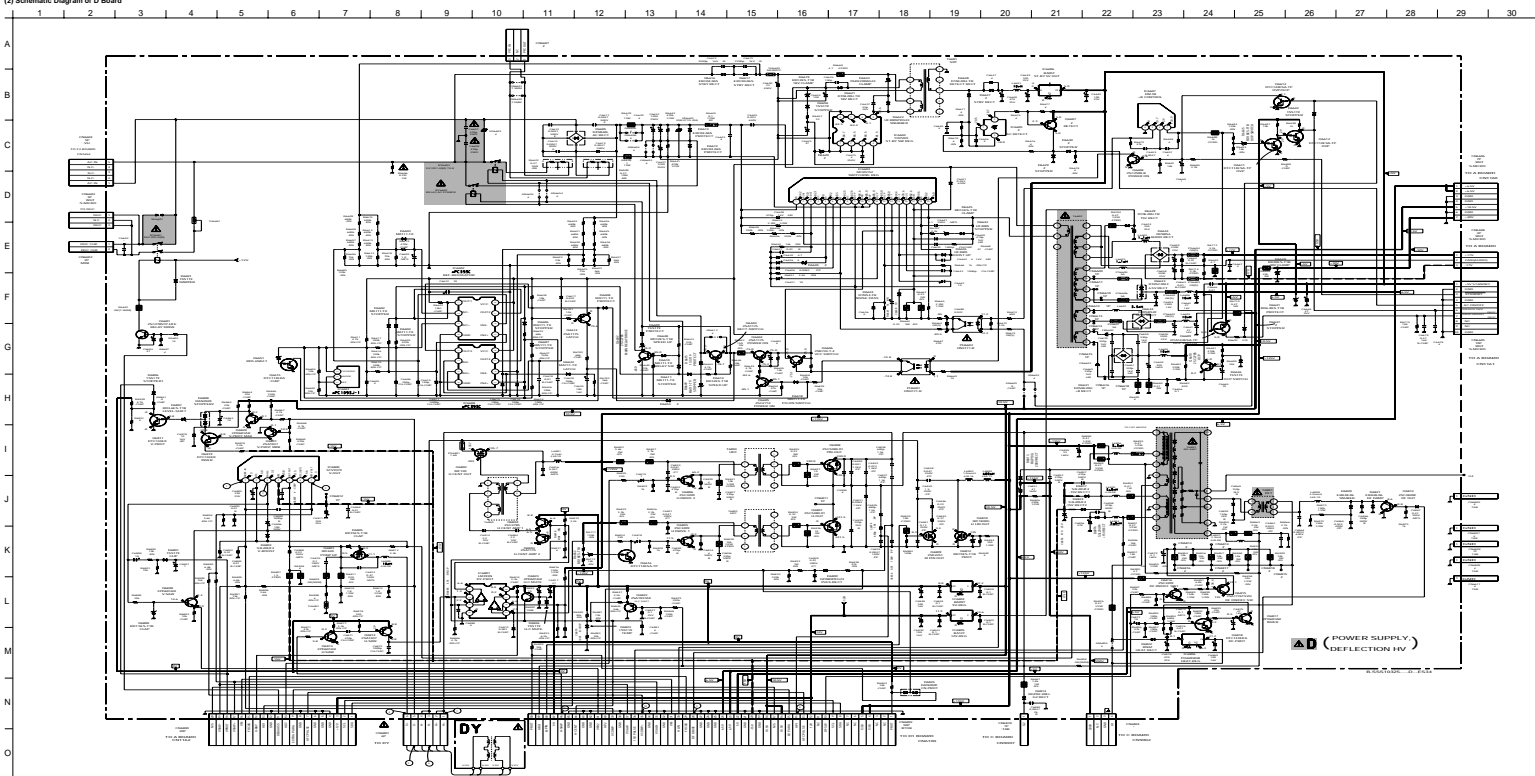
A Board (Conductor Side)



(1) Schematic Diagram of A Board



(2) Schematic Diagram of O Board



Schematic diagram
← board

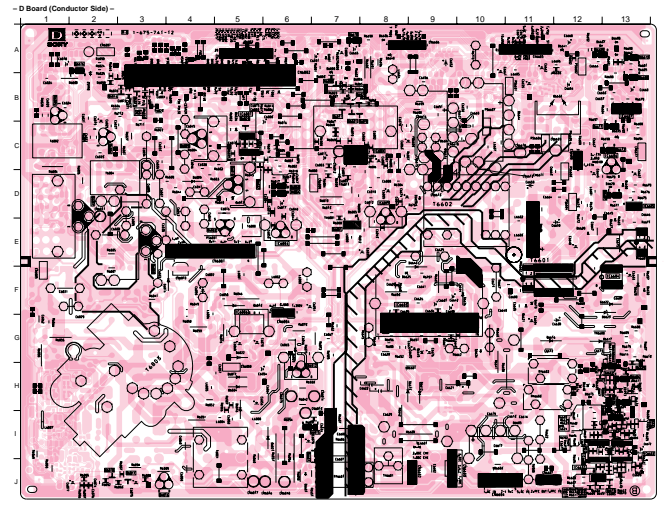
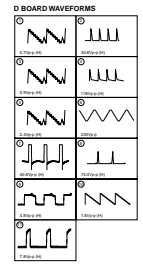
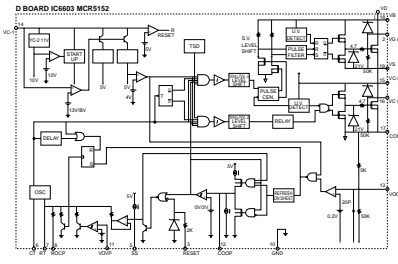
- 125 -

Schematic diagram
board →

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- 127 -

- 128 -



D BOARD (Component Side)

D BOARD (Conductor Side)

IC	CODE	Q6642	A-1	Q6643	G-12	Q6644	G-13	Q6645	B-1
IC6601	J-2	Q6644	C-4	Q6645	B-2	Q6646	B-3	Q6647	B-4
IC6602	A-3	Q6646	B-2	Q6647	B-3	Q6648	B-4	Q6649	B-5
IC6603	A-4	Q6648	B-2	Q6649	B-3	Q6650	B-4	Q6651	B-5
IC6604	B-1	Q6650	B-3	Q6651	B-4	Q6652	B-5	Q6653	B-6
IC6605	D-1	Q6652	B-5	Q6653	B-6	Q6654	B-7	Q6655	B-8
IC6606	D-2	Q6654	B-7	Q6655	B-8	Q6656	B-9	Q6657	B-10
IC6607	B-5	Q6656	B-8	Q6657	B-9	Q6658	B-10	Q6659	B-11
IC6608	B-6	Q6658	B-9	Q6659	B-10	Q6660	B-11	Q6661	B-12
IC6609	B-7	Q6660	B-11	Q6661	B-12	Q6662	B-13	Q6663	B-14
IC6610	B-8	Q6662	B-13	Q6663	B-14	Q6664	B-15	Q6665	B-16
IC6611	B-9	Q6664	B-15	Q6665	B-16	Q6666	B-17	Q6667	B-18
IC6612	B-10	Q6666	B-17	Q6667	B-18	Q6668	B-19	Q6669	B-20
IC6613	B-11	Q6668	B-19	Q6669	B-20	Q6670	B-21	Q6671	B-22
IC6614	B-12	Q6670	B-21	Q6671	B-22	Q6672	B-23	Q6673	B-24
IC6615	B-13	Q6672	B-23	Q6673	B-24	Q6674	B-25	Q6675	B-26
IC6616	B-14	Q6674	B-25	Q6675	B-26	Q6676	B-27	Q6677	B-28
IC6617	B-15	Q6676	B-27	Q6677	B-28	Q6678	B-29	Q6679	B-30
IC6618	B-16	Q6678	B-29	Q6679	B-30	Q6680	B-31	Q6681	B-32
IC6619	B-17	Q6680	B-31	Q6681	B-32	Q6682	B-33	Q6683	B-34
IC6620	B-18	Q6682	B-33	Q6683	B-34	Q6684	B-35	Q6685	B-36
IC6621	B-19	Q6684	B-35	Q6685	B-36	Q6686	B-37	Q6687	B-38
IC6622	B-20	Q6686	B-37	Q6687	B-38	Q6688	B-39	Q6689	B-40
IC6623	B-21	Q6688	B-39	Q6689	B-40	Q6690	B-41	Q6691	B-42
IC6624	B-22	Q6690	B-41	Q6691	B-42	Q6692	B-43	Q6693	B-44
IC6625	B-23	Q6692	B-43	Q6693	B-44	Q6694	B-45	Q6695	B-46
IC6626	B-24	Q6694	B-45	Q6695	B-46	Q6696	B-47	Q6697	B-48
IC6627	B-25	Q6696	B-47	Q6697	B-48	Q6698	B-49	Q6699	B-50
IC6628	B-26	Q6698	B-49	Q6699	B-50	Q6700	B-51	Q6701	B-52
IC6629	B-27	Q6700	B-51	Q6701	B-52	Q6702	B-53	Q6703	B-54
IC6630	B-28	Q6702	B-53	Q6703	B-54	Q6704	B-55	Q6705	B-56
IC6631	B-29	Q6704	B-55	Q6705	B-56	Q6706	B-57	Q6707	B-58
IC6632	B-30	Q6706	B-57	Q6707	B-58	Q6708	B-59	Q6709	B-60
IC6633	B-31	Q6708	B-59	Q6709	B-60	Q6710	B-61	Q6711	B-62
IC6634	B-32	Q6710	B-61	Q6711	B-62	Q6712	B-63	Q6713	B-64
IC6635	B-33	Q6712	B-63	Q6713	B-64	Q6714	B-65	Q6715	B-66
IC6636	B-34	Q6714	B-65	Q6715	B-66	Q6716	B-67	Q6717	B-68
IC6637	B-35	Q6716	B-67	Q6717	B-68	Q6718	B-69	Q6719	B-70
IC6638	B-36	Q6718	B-69	Q6719	B-70	Q6720	B-71	Q6721	B-72
IC6639	B-37	Q6720	B-71	Q6721	B-72	Q6722	B-73	Q6723	B-74
IC6640	B-38	Q6722	B-73	Q6723	B-74	Q6724	B-75	Q6725	B-76
IC6641	B-39	Q6724	B-75	Q6725	B-76	Q6726	B-77	Q6727	B-78
IC6642	B-40	Q6726	B-77	Q6727	B-78	Q6728	B-79	Q6729	B-80
IC6643	B-41	Q6728	B-79	Q6729	B-80	Q6730	B-81	Q6731	B-82
IC6644	B-42	Q6730	B-81	Q6731	B-82	Q6732	B-83	Q6733	B-84
IC6645	B-43	Q6732	B-83	Q6733	B-84	Q6734	B-85	Q6735	B-86
IC6646	B-44	Q6734	B-85	Q6735	B-86	Q6736	B-87	Q6737	B-88
IC6647	B-45	Q6736	B-87	Q6737	B-88	Q6738	B-89	Q6739	B-90
IC6648	B-46	Q6738	B-89	Q6739	B-90	Q6740	B-91	Q6741	B-92
IC6649	B-47	Q6740	B-91	Q6741	B-92	Q6742	B-93	Q6743	B-94
IC6650	B-48	Q6742	B-93	Q6743	B-94	Q6744	B-95	Q6745	B-96
IC6651	B-49	Q6744	B-95	Q6745	B-96	Q6746	B-97	Q6747	B-98
IC6652	B-50	Q6746	B-97	Q6747	B-98	Q6748	B-99	Q6749	B-100
IC6653	B-51	Q6748	B-99	Q6749	B-100	Q6750	B-101	Q6751	B-102
IC6654	B-52	Q6750	B-101	Q6751	B-102	Q6752	B-103	Q6753	B-104
IC6655	B-53	Q6752	B-103	Q6753	B-104	Q6754	B-105	Q6755	B-106
IC6656	B-54	Q6754	B-105	Q6755	B-106	Q6756	B-107	Q6757	B-108
IC6657	B-55	Q6756	B-107	Q6757	B-108	Q6758	B-109	Q6759	B-110
IC6658	B-56	Q6758	B-109	Q6759	B-110	Q6760	B-111	Q6761	B-112
IC6659	B-57	Q6760	B-111	Q6761	B-112	Q6762	B-113	Q6763	B-114
IC6660	B-58	Q6762	B-113	Q6763	B-114	Q6764	B-115	Q6765	B-116
IC6661	B-59	Q6764	B-115	Q6765	B-116	Q6766	B-117	Q6767	B-118
IC6662	B-60	Q6766	B-117	Q6767	B-118	Q6768	B-119	Q6769	B-120
IC6663	B-61	Q6768	B-119	Q6769	B-120	Q6770	B-121	Q6771	B-122
IC6664	B-62	Q6770	B-121	Q6771	B-122	Q6772	B-123	Q6773	B-124
IC6665	B-63	Q6772	B-123	Q6773	B-124	Q6774	B-125	Q6775	B-126
IC6666	B-64	Q6774	B-125	Q6775	B-126	Q6776	B-127	Q6777	B-128
IC6667	B-65	Q6776	B-127	Q6777	B-128	Q6778	B-129	Q6779	B-130
IC6668	B-66	Q6778	B-129	Q6779	B-130	Q6780	B-131	Q6781	B-132
IC6669	B-67	Q6780	B-131	Q6781	B-132	Q6782	B-133	Q6783	B-134
IC6670	B-68	Q6782	B-133	Q6783	B-134	Q6784	B-135	Q6785	B-136
IC6671	B-69	Q6784	B-135	Q6785	B-136	Q6786	B-137	Q6787	B-138
IC6672	B-70	Q6786	B-137	Q6787	B-138	Q6788	B-139	Q6789	B-140
IC6673	B-71	Q6788	B-139	Q6789	B-140	Q6790	B-141	Q6791	B-142
IC6674	B-72	Q6790	B-141	Q6791	B-142	Q6792	B-143	Q6793	B-144
IC6675	B-73	Q6792	B-143	Q6793	B-144	Q6794	B-145	Q6795	B-146
IC6676	B-74	Q6794	B-145	Q6795	B-146	Q6796	B-147	Q6797	B-148
IC6677	B-75	Q6796	B-147	Q6797	B-148	Q6798	B-149	Q6799	B-150
IC6678	B-76	Q6798	B-149	Q6799	B-150	Q6800	B-151	Q6801	B-152
IC6679	B-77	Q6800	B-151	Q6801	B-152	Q6802	B-153	Q6803	B-154
IC6680	B-78	Q6802	B-153	Q6803	B-154	Q6804	B-155	Q6805	B-156
IC6681	B-79	Q6804	B-155	Q6805	B-156	Q6806	B-157	Q6807	B-158
IC6682	B-80	Q6806	B-157	Q6807	B-158	Q6808	B-159	Q6809	B-160
IC6683	B-81	Q6808	B-159	Q6809	B-160	Q6810	B-161	Q6811	B-162
IC6684	B-82	Q6810	B-161	Q6811	B-162	Q6812	B-163	Q6813	B-164
IC6685	B-83	Q6812	B-163	Q6813	B-164	Q6814	B-165	Q6815	B-166
IC6686	B-84	Q6814	B-165	Q6815	B-166	Q6816	B-167	Q6817	B-168
IC6687	B-85	Q6816	B-167	Q6817	B-168	Q6818	B-169	Q6819	B-170
IC6688	B-86	Q6818	B-169	Q6819	B-170	Q6820	B-171	Q6821	B-172
IC6689	B-87	Q6820	B-171	Q6821	B-172	Q6822	B-173	Q6823	B-174
IC6690	B-88	Q6822	B-173	Q6823	B-174	Q6824	B-175	Q6825	B-176
IC6691	B-89	Q6824	B-175	Q6825	B-176	Q6826	B-177	Q6827	B-178
IC6692	B-90	Q6826	B-177	Q6827	B-178	Q6828	B-179	Q6829	B-180
IC6693	B-91	Q6828	B-179	Q6829	B-180	Q6830	B-181	Q6831	B-182
IC6694	B-92	Q6830	B-181	Q6831	B-182	Q6832	B-183	Q6833	B-184
IC6695	B-93	Q6832	B-183	Q6833	B-184	Q6834	B-185	Q6835	B-186
IC6696	B-94	Q6834	B-185	Q6835	B-186	Q6836	B-187	Q6837	B-188
IC6697	B-95	Q6836	B-187	Q6837	B-188	Q6838	B-189	Q6839	B-190
IC6698	B-96	Q6838	B-189	Q6839	B-190	Q6840	B-191	Q6841	B-192
IC6699	B-97	Q6840	B-191	Q6841	B-192	Q6842	B-193	Q6843	B-194
IC6700	B-98	Q6842	B-193	Q6843	B-194	Q6844	B-195	Q6845	B-196
IC6701	B-99	Q6844	B-195	Q6845	B-196	Q6846	B-197	Q6847	B-198
IC6702	B-100	Q6846	B-197	Q6847	B-198	Q6848	B-199	Q6849	B-200
IC6703	B-101	Q6848	B-199	Q6849	B-200	Q6850	B-201	Q6851	B-202
IC6704	B-102	Q6850	B-201	Q6851	B-202	Q6852	B-203	Q6853	B-204
IC6705	B-103	Q6852	B-203	Q6853	B-204	Q6854	B-205	Q6855	B-206
IC6706	B-104	Q6854	B-205	Q6855	B-206	Q6856	B-207	Q6857	B-208
IC6707	B-105	Q6856	B-207	Q6857	B-208	Q6858	B-209	Q6859	B-210
IC6708	B-106	Q6858	B-209	Q6859	B-210	Q6860	B-211	Q6861	B-212
IC6709	B-107	Q6860	B-211	Q6861	B-212	Q6862	B-213	Q6863	B-214
IC6710	B-108	Q6862	B-213	Q6863	B-214	Q6864	B-215	Q6865	B-216
IC6711	B-109	Q6864	B-215	Q6865	B-216	Q6866	B-217	Q6867	B-218
IC6712	B-110	Q6866	B-217	Q6867	B-218	Q6868	B-219	Q6869	B-220
IC6713	B-111	Q6868	B-219	Q6869	B-220	Q6870	B-221	Q6871	B-222
IC6714	B-112	Q6870	B-221	Q6871	B-222	Q6872	B-223	Q6873	B-224
IC6715	B-113	Q6872	B-223	Q6873	B-224	Q6874	B-225	Q6875	B-226
IC6716	B-114	Q6874	B-225	Q6875	B-226	Q6876	B-227	Q6877	B-228
IC6717	B-115	Q6876	B-227	Q6877	B-228	Q6878	B-229	Q6879	B-230
IC6718	B-116	Q6878	B-229	Q6879	B-230	Q6880	B-231	Q6881	B-232
IC6719	B-117	Q6880	B-231	Q6881	B-232	Q6882	B-233	Q6883	B-234
IC6720	B-118	Q6882	B-233	Q6883	B-234	Q6884	B-235	Q6885	B-236
IC6721	B-119	Q6884	B-235	Q6885	B-236	Q6886	B-237	Q6887	B-238
IC6722	B-120	Q6886	B-237	Q6887	B-238	Q6888	B-239	Q6889	B-240
IC6723	B-121	Q6888	B-239	Q6889	B-240	Q6890	B-241	Q689	

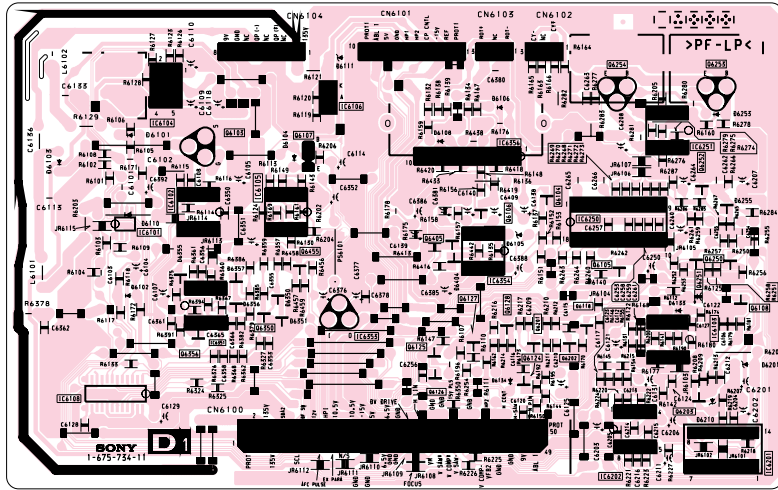
KV-ES34M61/ES34N90
RM-916 RM-958

KV-ES34M61/ES34N90
RM-916 RM-958

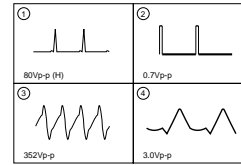
PRINTED WIRING BOARD

D1 [DF, DQP DRIVE]

- D1 Board -



D1 BOARD WAVEFORMS



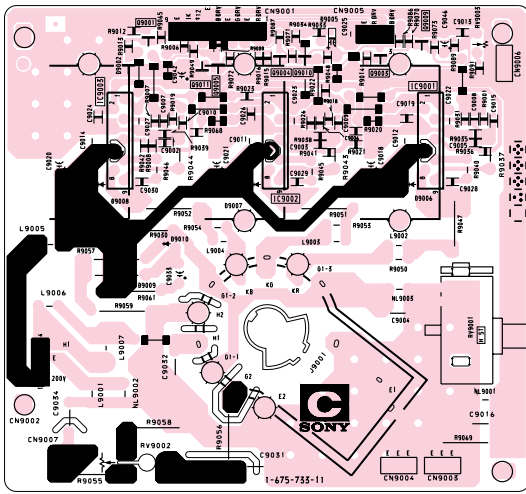
KV-ES34M61/ES34N90
RM-916 RM-958

KV-ES34M61/ES34N90
RM-916 RM-958

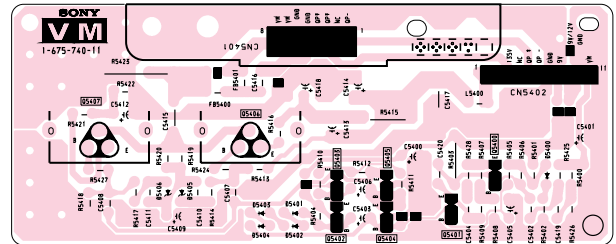
PRINTED WIRING BOARDS

C [CRT DRIVE] **VM** [VM DRIVE] **F1** [AC LINE FILTER]

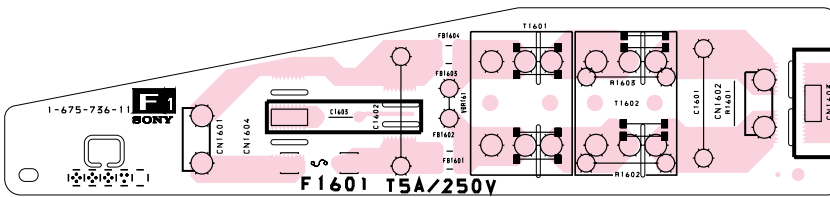
- C Board -



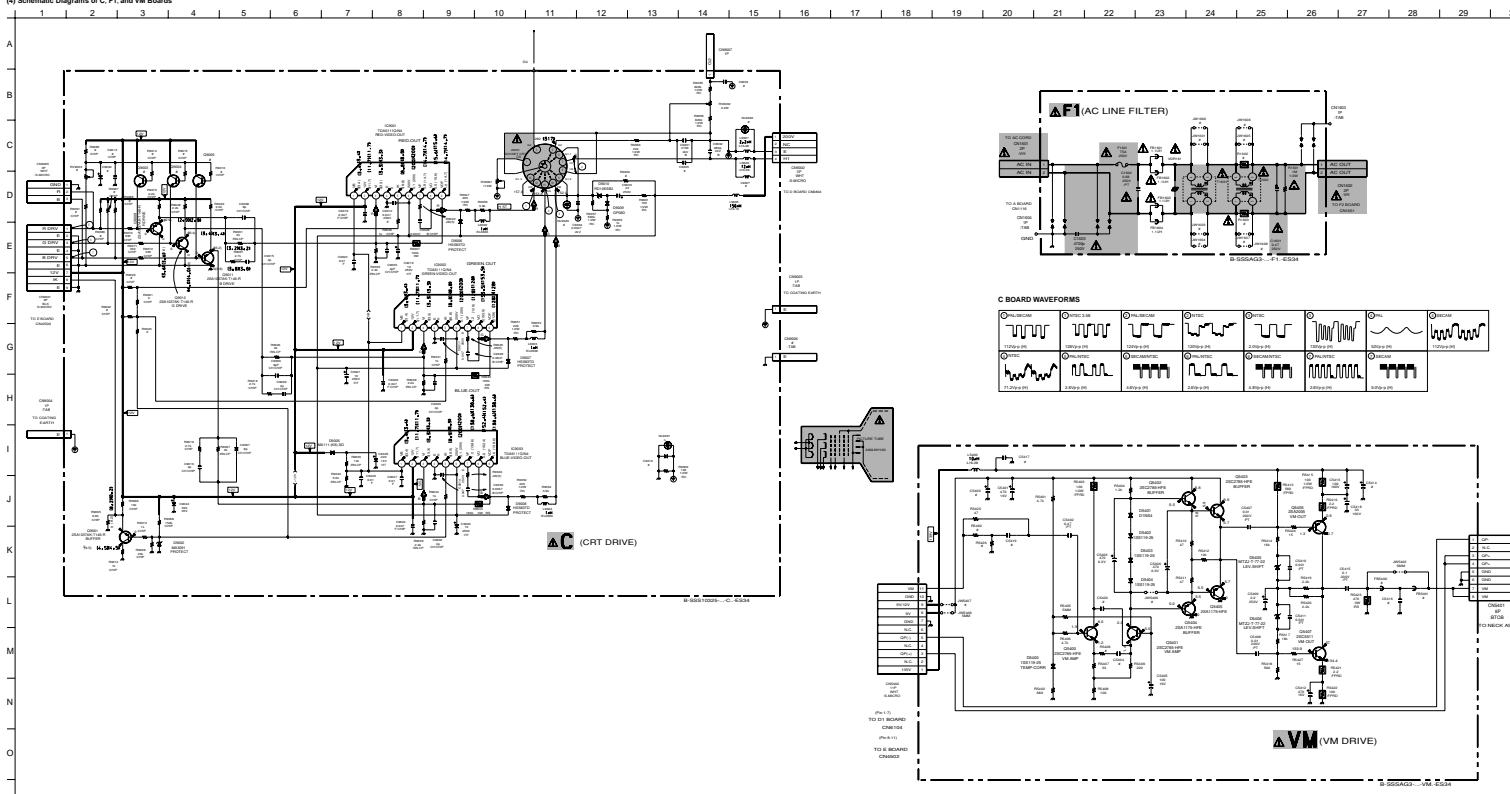
- VM Board -



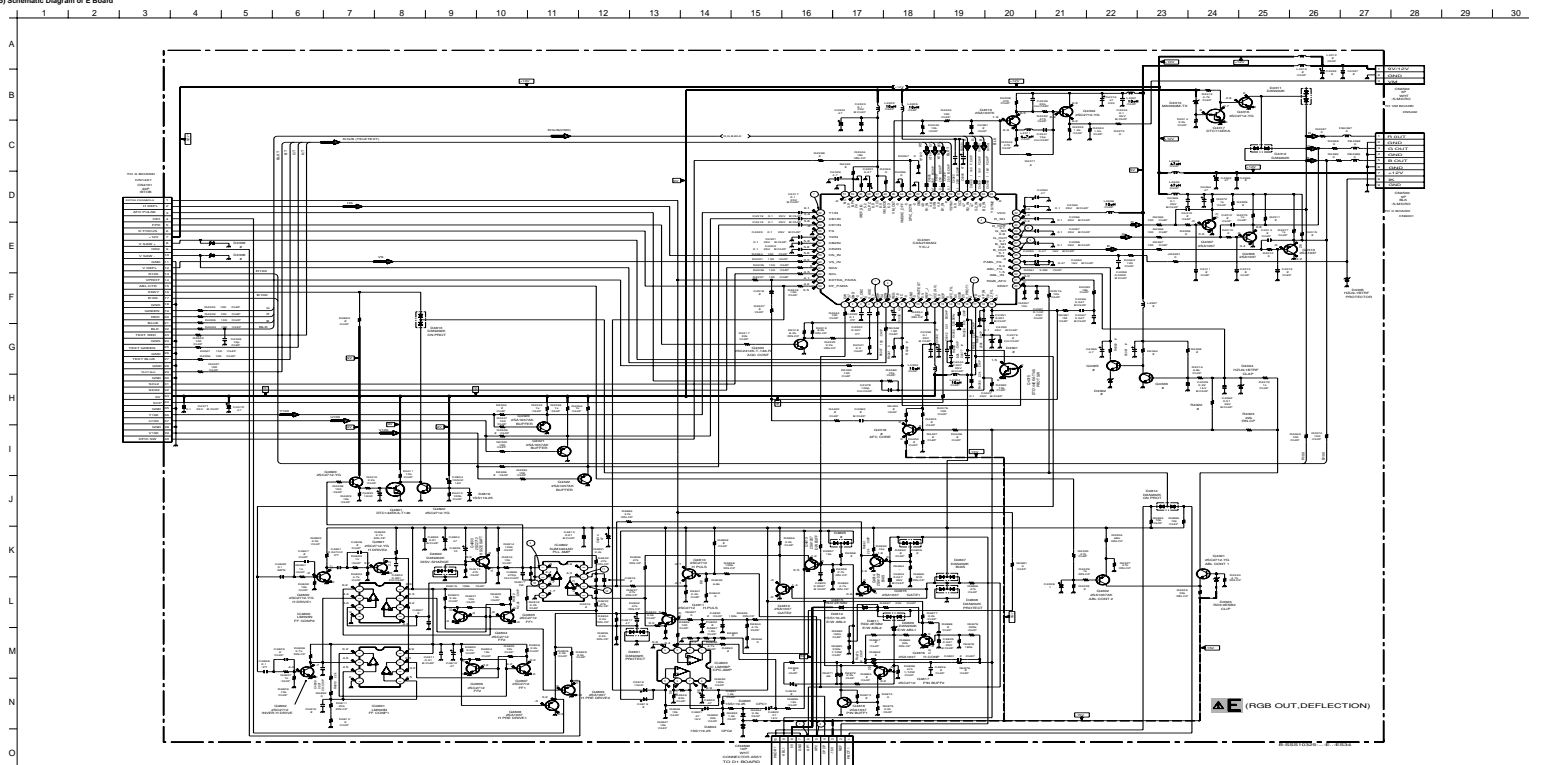
- F1 Board -



(4) Schematic Diagrams of C, FI, and VM Boards



(9) Schematic Diagram of E Board



Schematic diagram
boards

-145-

Schematic diagram
board

-146-

-147-

-148-

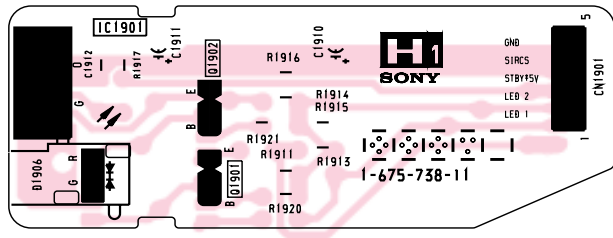
PRINTED WIRING BOARDS

H1 [LED, SIRCS RECEIVER]

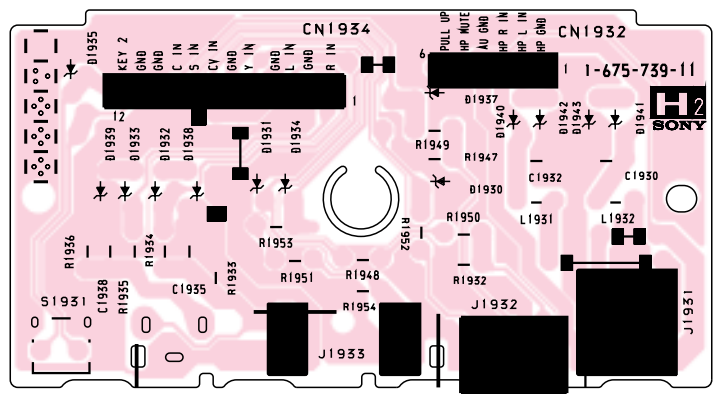
H2 [AV INPUT, PRESET KEY, PHONE OUT]

H3 [TOP KEY]

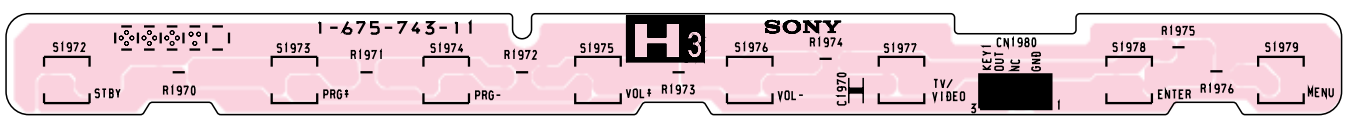
- H1 Board -



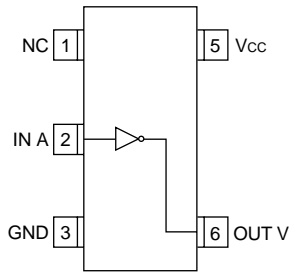
- H2 Board -



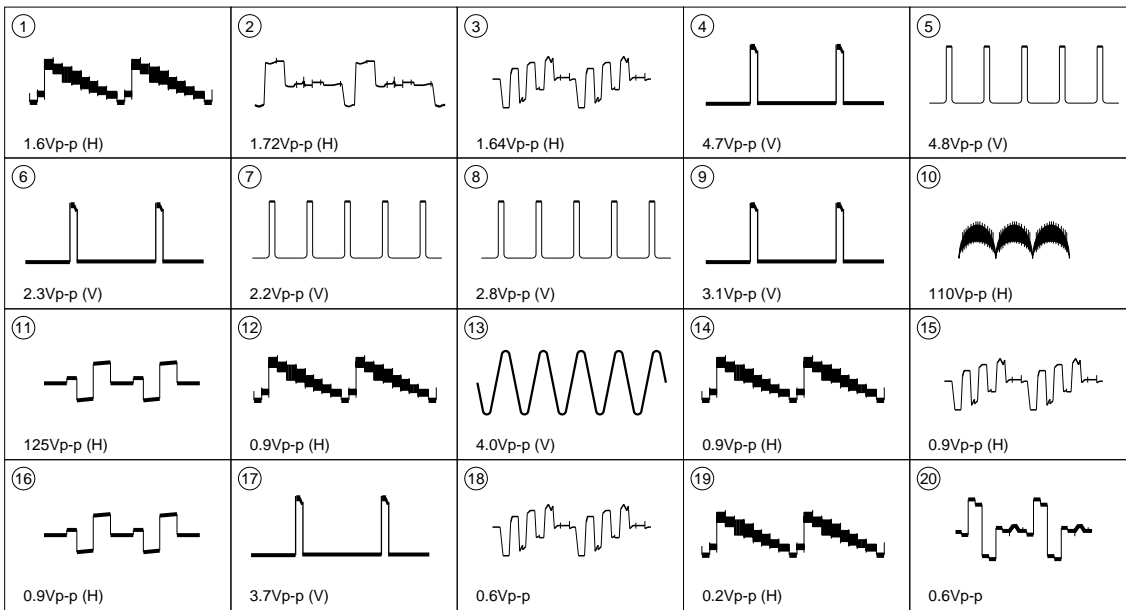
- H3 Board -



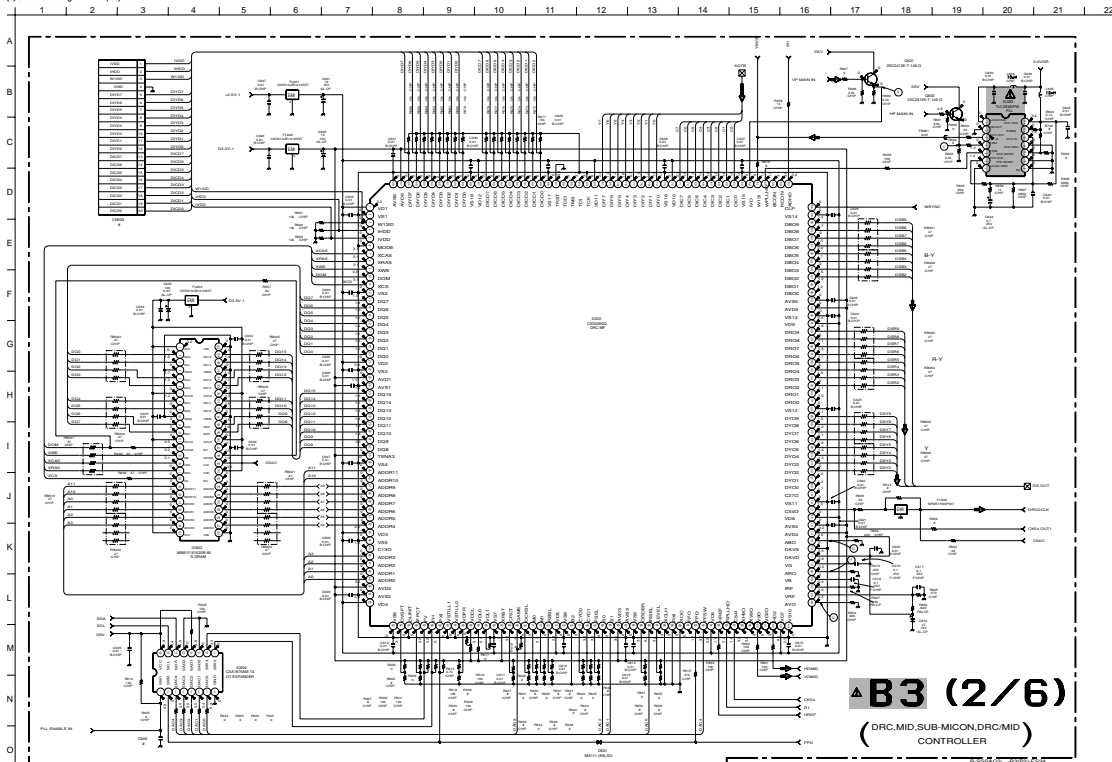
B3 BOARD IC309, IC505 AND IC506 TC7SET04F (TE85R)



B3 BOARD WAVEFORMS



8) Schematic Diagram of B3 (2/6) Board

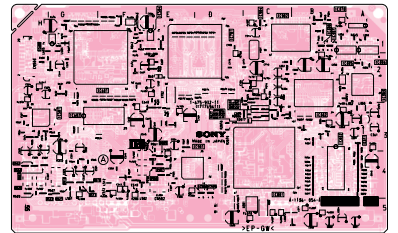


Schematic diagram
B3 (2/6) board

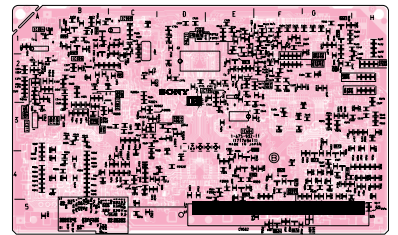
PRINTED WIRING BOARDS

B3 (DRC, MID, DRC, MID CONTROLLER)

- B3 Board (Component Side) -



- B3 Board (Conductor Side) -



B3 BOARD (Component Side)

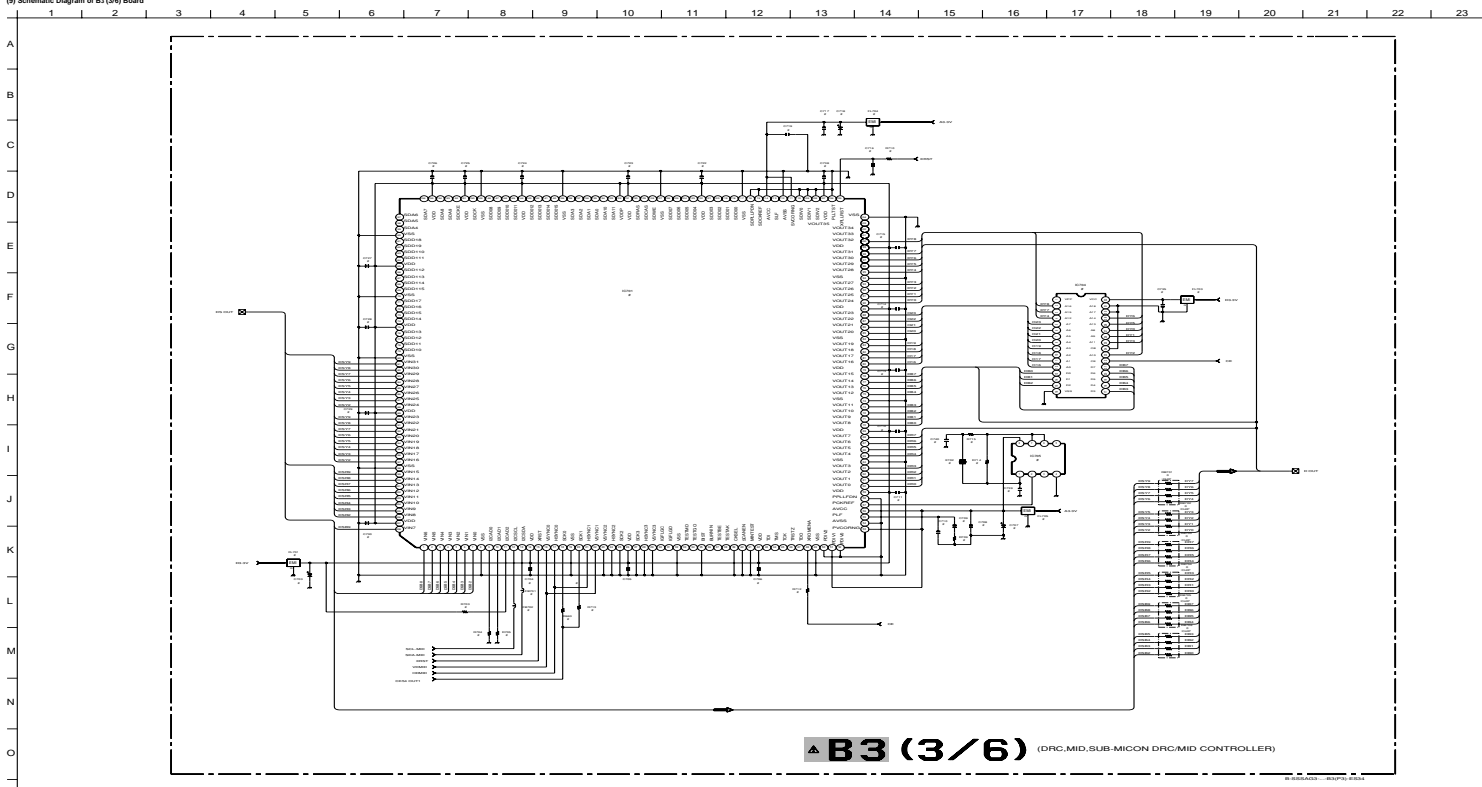
IC	TRANSISTOR
IC301	Q-7
IC302	Q-8
IC303	Q-9
IC304	Q-10
IC305	Q-11
IC306	Q-12
IC307	Q-13
IC308	Q-14
IC309	Q-15
IC310	Q-16
IC311	Q-17
IC312	Q-18
IC313	Q-19
IC314	Q-20
IC315	Q-21
IC316	Q-22
IC317	Q-23
IC318	Q-24
IC319	Q-25
IC320	Q-26
IC321	Q-27
IC322	Q-28
IC323	Q-29
IC324	Q-30

B3 BOARD (Conductor Side)

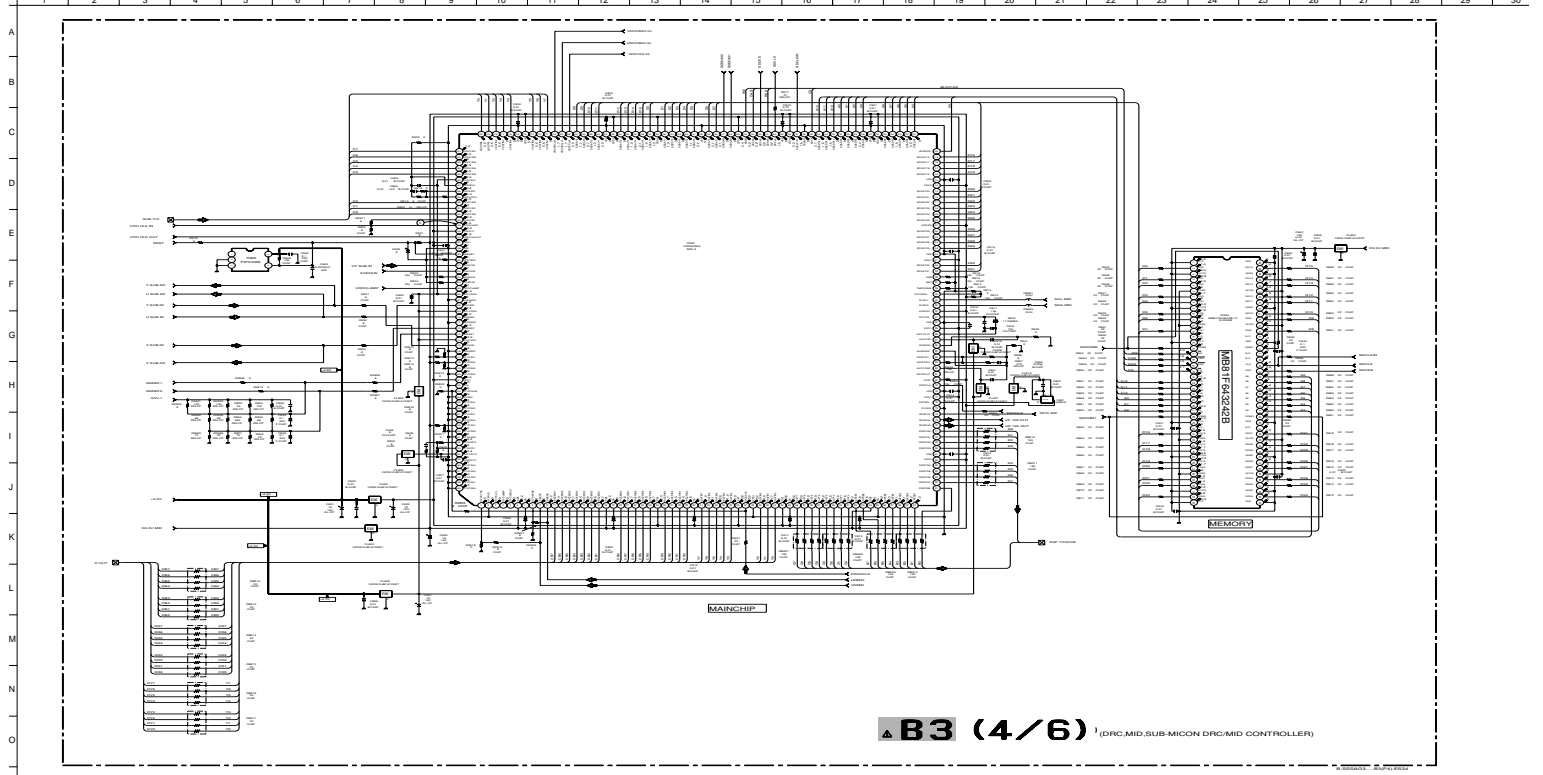
IC	DIC
IC301	D-1
IC302	D-2
IC303	D-3
IC304	D-4
IC305	D-5
IC306	D-6
IC307	D-7
IC308	D-8
IC309	D-9
IC310	D-10
IC311	D-11
IC312	D-12
IC313	D-13
IC314	D-14
IC315	D-15
IC316	D-16
IC317	D-17
IC318	D-18
IC319	D-19
IC320	D-20
IC321	D-21
IC322	D-22
IC323	D-23
IC324	D-24

- Pattern from the side which enables seeing.
- Pattern from the rear side.

(9) Schematic Diagram of B3 (3/6) Board

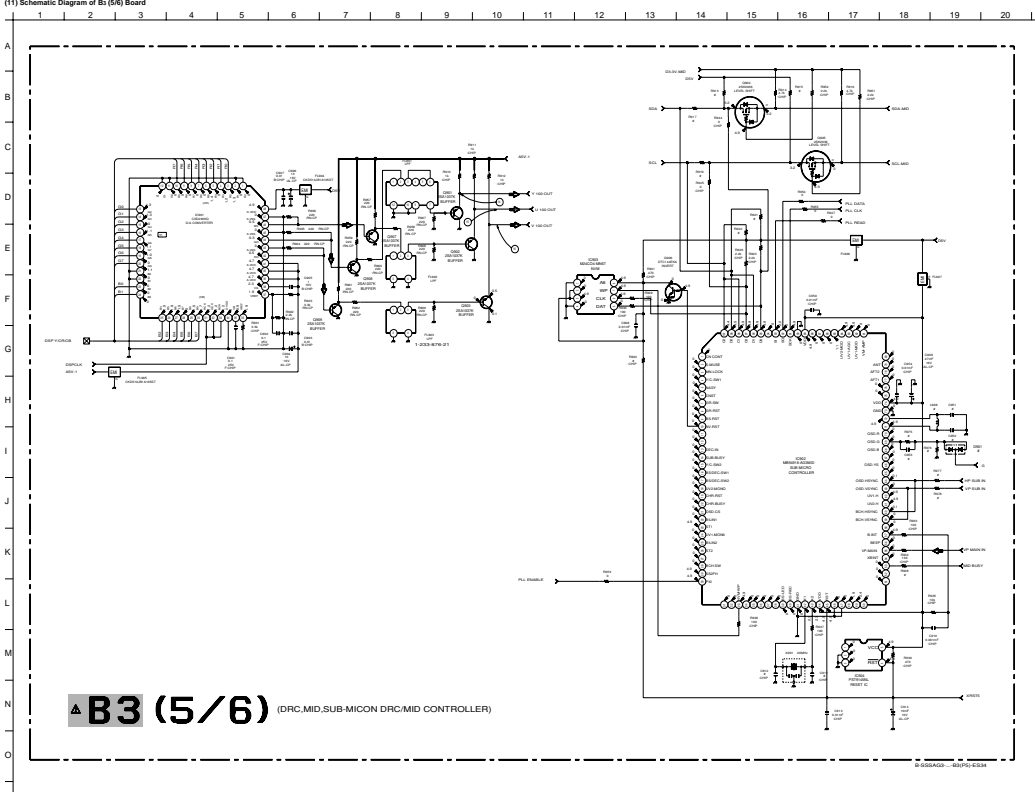


B3 (3/6) (DRC, MID, SUB-MICON, DRC, MID, CONTROLLER)

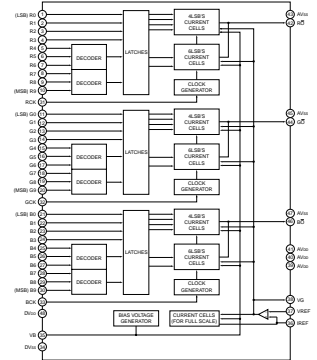


B3 (4/6) (DRC: MID. SUB-MICRON DRC: MID CONTROLLER)

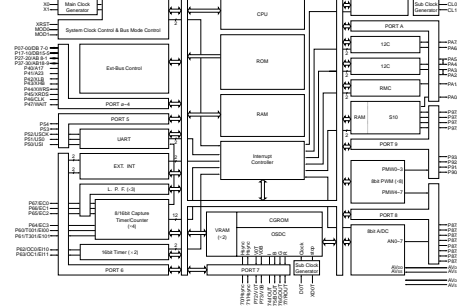
(11) Schematic Diagram of B3 (5/6) Board



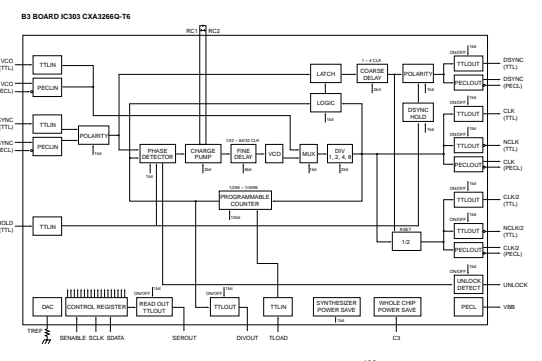
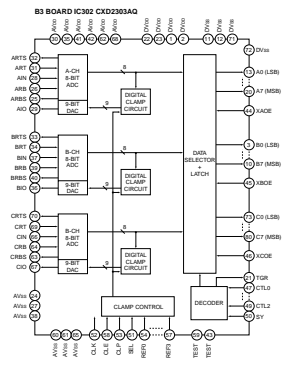
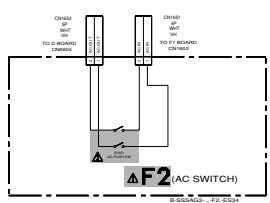
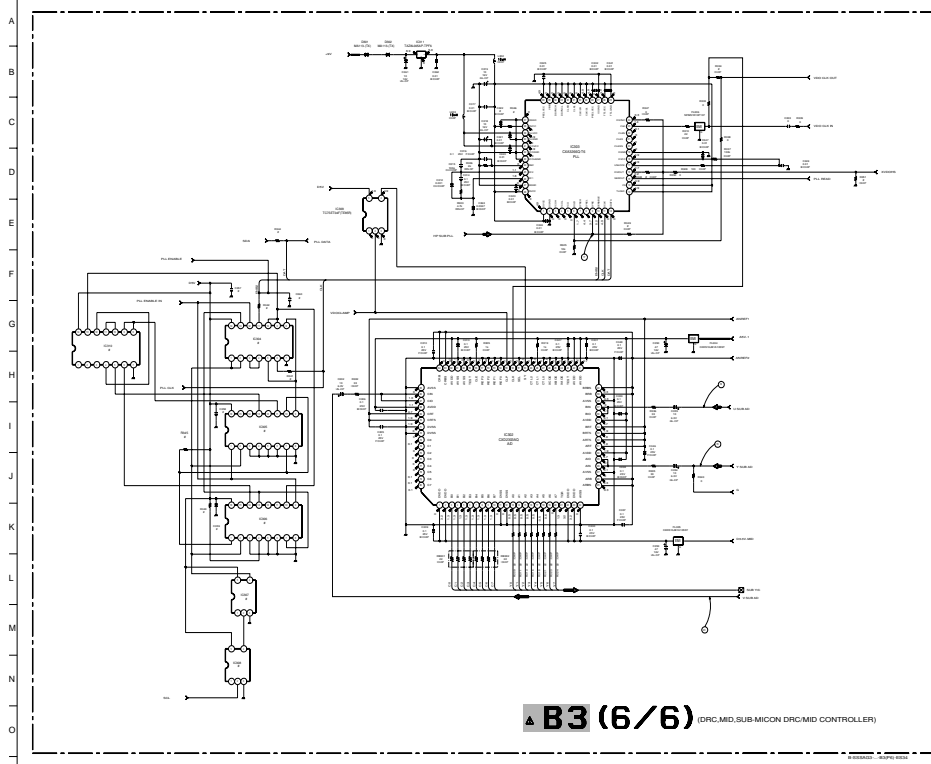
B3 BOARD IC961 CXD2399Q



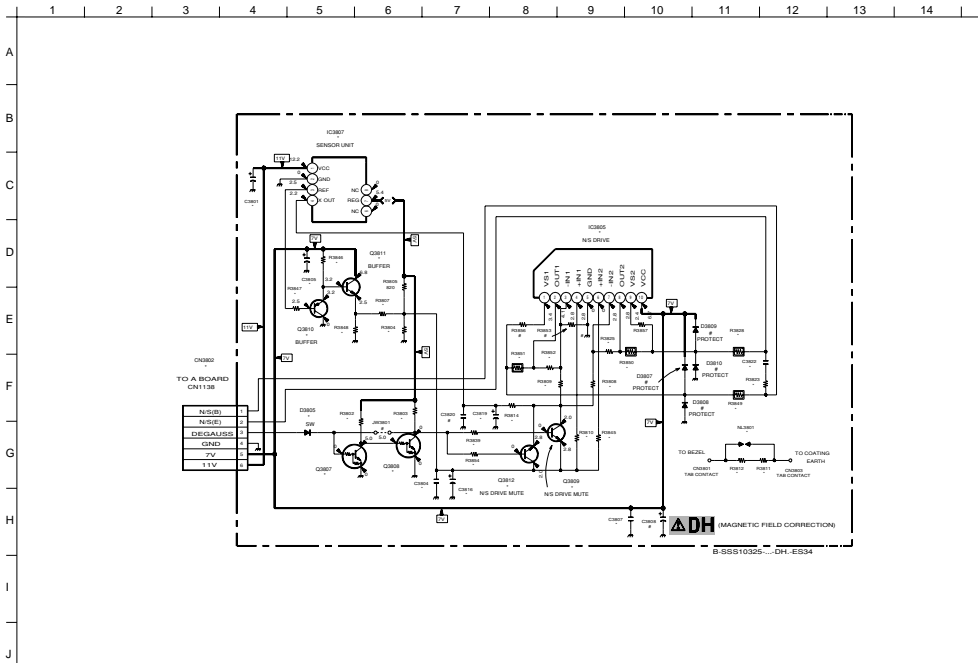
B3 BOARD IC962 MB94916-AQ3M1D



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24



(13) Schematic Diagram of DH Board

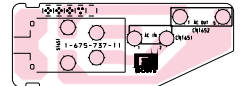


PRINTED WIRING BOARDS

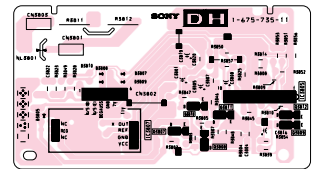
F2 [AC SWITCH]

DH [MAGNETIC FIELD CORRECTION]

- F2 Board -



- DH Board -

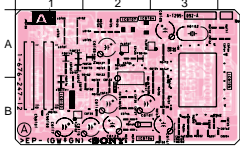


Schematic diagram
← **DH** board

PRINTED WIRING BOARDS

A1 [AUDIO DSP]

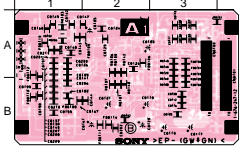
- A1 Board (Component Side) -



A1 BOARD (Component Side)

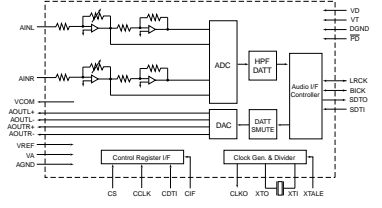
IC	
IC8102	B-1
IC8104	A-2
IC8105	B-4
IC8106	B-3
IC8108	B-1

- A1 Board (Conductor Side) -



- :Pattern from the side which enables seeing.
- :Pattern from the rear side.

A1 Board IC8103 AK4524



KV-ES34M61/ES34N90
RM-916 RM-958

KV-ES34M61/ES34N90
RM-916 RM-958

KV-ES34M61/ES
RM-916

PRINTED WIRING BOARD

BC4

[NYC SEP]

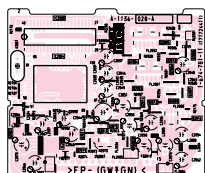
E2

[AFC RASTER DISTORTION CIRCUIT]

V

[TELETEXT]

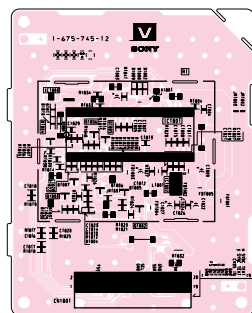
- BC4 Board -



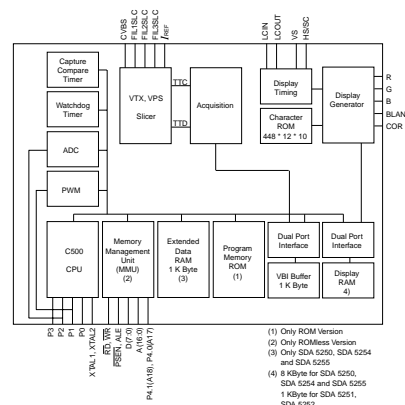
- E2 Board -



- V Board - (KV-ES34M61 only)

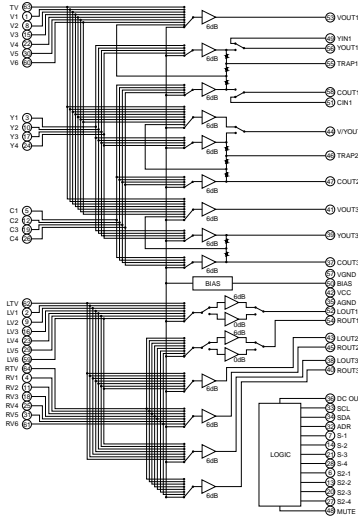


V BOARD IC1801 SDA5254-2B006

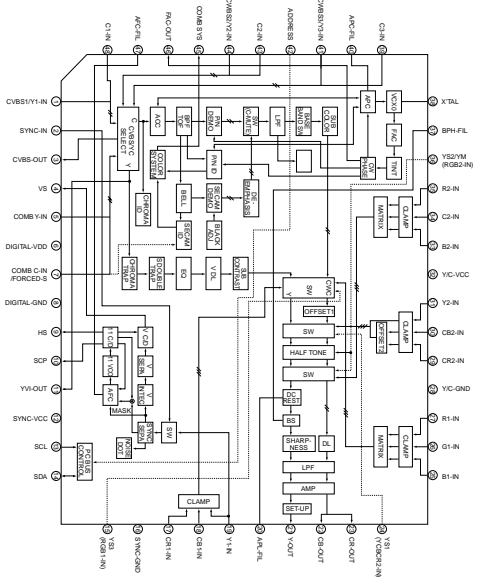


- (1) Only ROM Version
- (2) Only ROMless Version
- (3) Only SDA 5250, SDA 5254 and SDA 5255
- (4) 8 KByte for SDA 5250, SDA 5254 and SDA 5255, 1 KByte for SDA 5251, SDA 5252

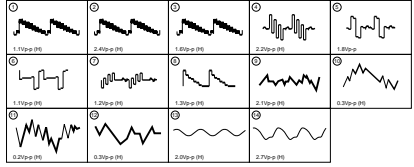
J Board IC8302 CXA2069Q



J Board IC8306 CXA2123AQ-T6



J BOARD WAVEFORMS

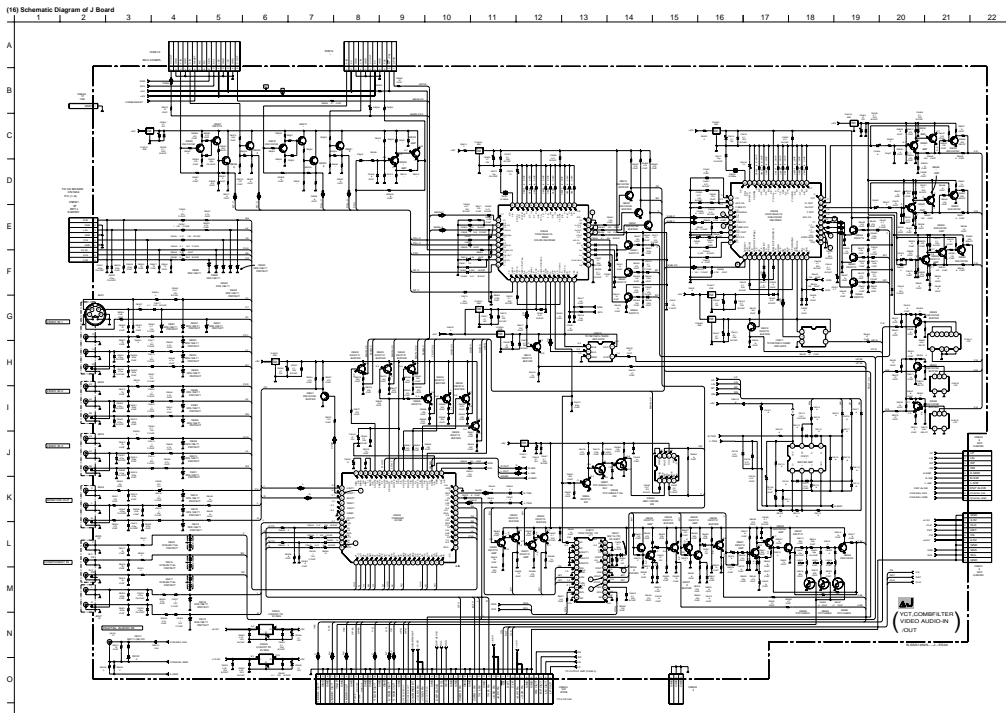


J BOARD PART LIST

	KV-ES34M61 (Malaysia)	KV-ES34M61 (Thailand)	KV-ES34N90 (Taiwan)
C8302	47 CHIP	47 CHIP	#
C8344	0.01 CHIP	0.01 CHIP	#
C8347	0.1 25V CHIP	0.1 25V CHIP	#
C8348	100 TPE	100 TPE	#
C8357	0.01 CHIP	0.01 CHIP	#
C8358	1 16V CHIP	1 16V CHIP	#
IC8314	HYB IC SBX3006-11	HYB IC SBX3006-11	#
JR8303	0 CHIP	0 CHIP	#
JR8304	0 CHIP	0 CHIP	#
Q8313	25C2712-VG	25C2712-VG	#
Q8342	25C2712-VG	25C2712-VG	#
Q8343	25A1037AK-T148-QR	25A1037AK-T148-QR	#
R8354	47 CHIP	47 CHIP	#
R8359	430 CHIP	430 CHIP	#
R8361	470 CHIP	470 CHIP	#
R8362	330 CHIP	330 CHIP	#
R8364	470 CHIP	470 CHIP	#
R8368	100 CHIP	100 CHIP	#
R8401	220 CHIP	220 CHIP	#
R8404	220 CHIP	220 CHIP	#
R8412	100 CHIP	100 CHIP	#
R8413	470 CHIP	470 CHIP	#
R8510	470 CHIP	470 CHIP	#
R8553	4.7K CHIP	4.7K CHIP	#
R8552	0 CHIP	0 CHIP	#
R8554	0 CHIP	0 CHIP	#
R8555	470 CHIP	470 CHIP	#
R8556	470 CHIP	470 CHIP	#
R8557	470 CHIP	470 CHIP	#

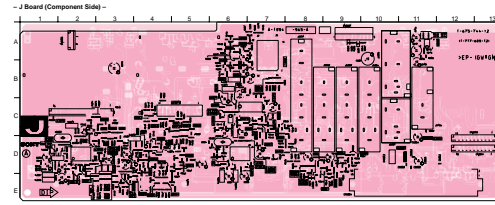
Note: The parts indicated as "*" in this circuit diagram are not listed here, as they are not used for these models.

(18) Schematic Diagram of J Board

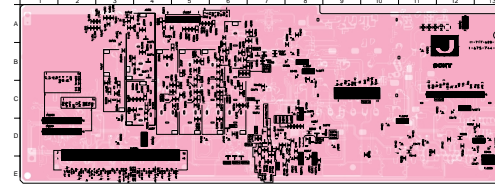


PRINTED WIRING BOARDS

J BOARD (Component Side)



J Board (Conductor Side)



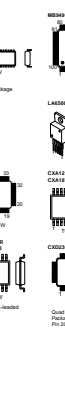
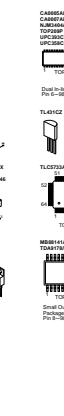
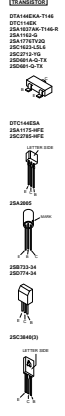
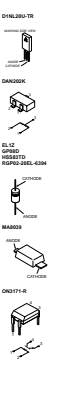
J BOARD (Component Side)

IC	Q801	C2	Q802	C1	
Q802	A-5	Q804	A-2	Q805	C-1
Q803	B-10	Q806	B-7	Q807	C-4
Q804	B-11	Q808	B-8	Q809	C-11
Q805	B-12	Q810	B-9	Q811	C-12
Q806	C-1	Q812	B-10	Q813	C-13
Q807	C-2	Q814	B-11	Q815	C-14
Q808	C-3	Q816	B-12	Q817	C-15
Q809	C-4	Q818	B-13	Q819	C-16
Q810	C-5	Q820	B-14	Q821	C-17
Q811	C-6	Q822	B-15	Q823	C-18
Q812	C-7	Q824	B-16	Q825	C-19
Q813	C-8	Q826	B-17	Q827	C-20
Q814	C-9	Q828	B-18	Q829	C-21
Q815	C-10	Q830	B-19	Q831	C-22
Q816	C-11	Q832	B-20	Q833	C-23
Q817	C-12	Q834	B-21	Q835	C-24
Q818	C-13	Q836	B-22	Q837	C-25
Q819	C-14	Q838	B-23	Q839	C-26
Q820	C-15	Q840	B-24	Q841	C-27
Q821	C-16	Q842	B-25	Q843	C-28
Q822	C-17	Q844	B-26	Q845	C-29
Q823	C-18	Q846	B-27	Q847	C-30
Q824	C-19	Q848	B-28	Q849	C-31
Q825	C-20	Q850	B-29	Q851	C-32
Q826	C-21	Q852	B-30	Q853	C-33
Q827	C-22	Q854	B-31	Q855	C-34
Q828	C-23	Q856	B-32	Q857	C-35
Q829	C-24	Q858	B-33	Q859	C-36
Q830	C-25	Q860	B-34	Q861	C-37
Q831	C-26	Q862	B-35	Q863	C-38
Q832	C-27	Q864	B-36	Q865	C-39
Q833	C-28	Q866	B-37	Q867	C-40
Q834	C-29	Q868	B-38	Q869	C-41
Q835	C-30	Q870	B-39	Q871	C-42
Q836	C-31	Q872	B-40	Q873	C-43
Q837	C-32	Q874	B-41	Q875	C-44
Q838	C-33	Q876	B-42	Q877	C-45
Q839	C-34	Q878	B-43	Q879	C-46
Q840	C-35	Q880	B-44	Q881	C-47
Q841	C-36	Q882	B-45	Q883	C-48
Q842	C-37	Q884	B-46	Q885	C-49
Q843	C-38	Q886	B-47	Q887	C-50
Q844	C-39	Q888	B-48	Q889	C-51
Q845	C-40	Q890	B-49	Q891	C-52
Q846	C-41	Q892	B-50	Q893	C-53
Q847	C-42	Q894	B-51	Q895	C-54
Q848	C-43	Q896	B-52	Q897	C-55
Q849	C-44	Q898	B-53	Q899	C-56
Q850	C-45	Q900	B-54	Q901	C-57
Q851	C-46	Q902	B-55	Q903	C-58
Q852	C-47	Q904	B-56	Q905	C-59
Q853	C-48	Q906	B-57	Q907	C-60
Q854	C-49	Q908	B-58	Q909	C-61
Q855	C-50	Q910	B-59	Q911	C-62
Q856	C-51	Q912	B-60	Q913	C-63
Q857	C-52	Q914	B-61	Q915	C-64
Q858	C-53	Q916	B-62	Q917	C-65
Q859	C-54	Q918	B-63	Q919	C-66
Q860	C-55	Q920	B-64	Q921	C-67
Q861	C-56	Q922	B-65	Q923	C-68
Q862	C-57	Q924	B-66	Q925	C-69
Q863	C-58	Q926	B-67	Q927	C-70
Q864	C-59	Q928	B-68	Q929	C-71
Q865	C-60	Q930	B-69	Q931	C-72
Q866	C-61	Q932	B-70	Q933	C-73
Q867	C-62	Q934	B-71	Q935	C-74
Q868	C-63	Q936	B-72	Q937	C-75
Q869	C-64	Q938	B-73	Q939	C-76
Q870	C-65	Q940	B-74	Q941	C-77
Q871	C-66	Q942	B-75	Q943	C-78
Q872	C-67	Q944	B-76	Q945	C-79
Q873	C-68	Q946	B-77	Q947	C-80
Q874	C-69	Q948	B-78	Q949	C-81
Q875	C-70	Q950	B-79	Q951	C-82
Q876	C-71	Q952	B-80	Q953	C-83
Q877	C-72	Q954	B-81	Q955	C-84
Q878	C-73	Q956	B-82	Q957	C-85
Q879	C-74	Q958	B-83	Q959	C-86
Q880	C-75	Q960	B-84	Q961	C-87
Q881	C-76	Q962	B-85	Q963	C-88
Q882	C-77	Q964	B-86	Q965	C-89
Q883	C-78	Q966	B-87	Q967	C-90
Q884	C-79	Q968	B-88	Q969	C-91
Q885	C-80	Q970	B-89	Q971	C-92
Q886	C-81	Q972	B-90	Q973	C-93
Q887	C-82	Q974	B-91	Q975	C-94
Q888	C-83	Q976	B-92	Q977	C-95
Q889	C-84	Q978	B-93	Q979	C-96
Q890	C-85	Q980	B-94	Q981	C-97
Q891	C-86	Q982	B-95	Q983	C-98
Q892	C-87	Q984	B-96	Q985	C-99
Q893	C-88	Q986	B-97	Q987	C-100
Q894	C-89	Q988	B-98	Q989	C-101
Q895	C-90	Q990	B-99	Q991	C-102
Q896	C-91	Q992	B-100	Q993	C-103
Q897	C-92	Q994	B-101	Q995	C-104
Q898	C-93	Q996	B-102	Q997	C-105
Q899	C-94	Q998	B-103	Q999	C-106
Q900	C-95	Q1000	B-104	Q1001	C-107
Q901	C-96	Q1002	B-105	Q1003	C-108
Q902	C-97	Q1004	B-106	Q1005	C-109
Q903	C-98	Q1006	B-107	Q1007	C-110
Q904	C-99	Q1008	B-108	Q1009	C-111
Q905	C-100	Q1010	B-109	Q1011	C-112
Q906	C-101	Q1012	B-110	Q1013	C-113
Q907	C-102	Q1014	B-111	Q1015	C-114
Q908	C-103	Q1016	B-112	Q1017	C-115
Q909	C-104	Q1018	B-113	Q1019	C-116
Q910	C-105	Q1020	B-114	Q1021	C-117
Q911	C-106	Q1022	B-115	Q1023	C-118
Q912	C-107	Q1024	B-116	Q1025	C-119
Q913	C-108	Q1026	B-117	Q1027	C-120
Q914	C-109	Q1028	B-118	Q1029	C-121
Q915	C-110	Q1030	B-119	Q1031	C-122
Q916	C-111	Q1032	B-120	Q1033	C-123
Q917	C-112	Q1034	B-121	Q1035	C-124
Q918	C-113	Q1036	B-122	Q1037	C-125
Q919	C-114	Q1038	B-123	Q1039	C-126
Q920	C-115	Q1040	B-124	Q1041	C-127
Q921	C-116	Q1042	B-125	Q1043	C-128
Q922	C-117	Q1044	B-126	Q1045	C-129
Q923	C-118	Q1046	B-127	Q1047	C-130
Q924	C-119	Q1048	B-128	Q1049	C-131
Q925	C-120	Q1050	B-129	Q1051	C-132
Q926	C-121	Q1052	B-130	Q1053	C-133
Q927	C-122	Q1054	B-131	Q1055	C-134
Q928	C-123	Q1056	B-132	Q1057	C-135
Q929	C-124	Q1058	B-133	Q1059	C-136
Q930	C-125	Q1060	B-134	Q1061	C-137
Q931	C-126	Q1062	B-135	Q1063	C-138
Q932	C-127	Q1064	B-136	Q1065	C-139
Q933	C-128	Q1066	B-137	Q1067	C-140
Q934	C-129	Q1068	B-138	Q1069	C-141
Q935	C-130	Q1070	B-139	Q1071	C-142
Q936	C-131	Q1072	B-140	Q1073	C-143
Q937	C-132	Q1074	B-141	Q1075	C-144
Q938	C-133	Q1076	B-142	Q1077	C-145
Q939	C-134	Q1078	B-143	Q1079	C-146
Q940	C-135	Q1080	B-144	Q1081	C-147
Q941	C-136	Q1082	B-145	Q1083	C-148
Q942	C-137	Q1084	B-146	Q1085	C-149
Q943	C-138	Q1086	B-147	Q1087	C-150
Q944	C-139	Q1088	B-148	Q1089	C-151
Q945	C-140	Q1090	B-149	Q1091	C-152
Q946	C-141	Q1092	B-150	Q1093	C-153
Q947	C-142	Q1094	B-151	Q1095	C-154
Q948	C-143	Q1096	B-152	Q1097	C-155
Q949	C-144	Q1098	B-153	Q1099	C-156
Q950	C-145	Q1100	B-154	Q1101	C-157
Q951	C-146	Q1102	B-155	Q1103	C-158
Q952	C-147	Q1104	B-156	Q1105	C-159
Q953	C-148	Q1106	B-157	Q1107	C-160
Q954	C-149	Q1108	B-158	Q1109	C-161
Q955	C-150	Q1110	B-159	Q1111	C-162
Q956	C-151	Q1112	B-160	Q1113	C-163
Q957	C-152	Q1114	B-161	Q1115	C-164
Q958	C-153	Q1116	B-162	Q1117	C-165
Q959	C-154	Q1118	B-163	Q1119	C-166
Q960	C-155	Q1120	B-164	Q1121	C-167
Q961	C-156	Q1122	B-165	Q1123	C-168
Q962	C-157	Q1124	B-166	Q1125	C-169
Q963	C-158	Q1126	B-167	Q1127	C-170
Q964	C-159	Q1128	B-168	Q1129	C-171
Q965	C-160	Q1130	B-169	Q1131	C-172
Q966	C-161	Q1132	B-170	Q1133	C-173
Q967	C-162	Q1134	B-171	Q1135	C-174
Q968	C-163	Q1136	B-172	Q1137	C-175
Q969	C-164	Q1138	B-173	Q1139	C-176
Q970	C-165	Q1140	B-174	Q1141	C-177
Q971	C-166	Q1142	B-175	Q1143	C-178
Q972	C-167	Q1144	B-176	Q1145	C-179
Q973	C-168	Q1146	B-177	Q1147	C-180
Q974	C-169	Q1148	B-178	Q1149	C-181

6.4. SEMICONDUCTORS

DIODES

- DI164
- DI164-06
- DI164-08
- DI164-10
- DI164-12
- DI164-14
- DI164-16
- DI164-18
- DI164-20
- DI164-22
- DI164-24
- DI164-26
- DI164-28
- DI164-30
- DI164-32
- DI164-34
- DI164-36
- DI164-38
- DI164-40
- DI164-42
- DI164-44
- DI164-46
- DI164-48
- DI164-50
- DI164-52
- DI164-54
- DI164-56
- DI164-58
- DI164-60
- DI164-62
- DI164-64
- DI164-66
- DI164-68
- DI164-70
- DI164-72
- DI164-74
- DI164-76
- DI164-78
- DI164-80
- DI164-82
- DI164-84
- DI164-86
- DI164-88
- DI164-90
- DI164-92
- DI164-94
- DI164-96
- DI164-98
- DI164-100



SECTION 7

EXPLODED VIEWS

NOTE:

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

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

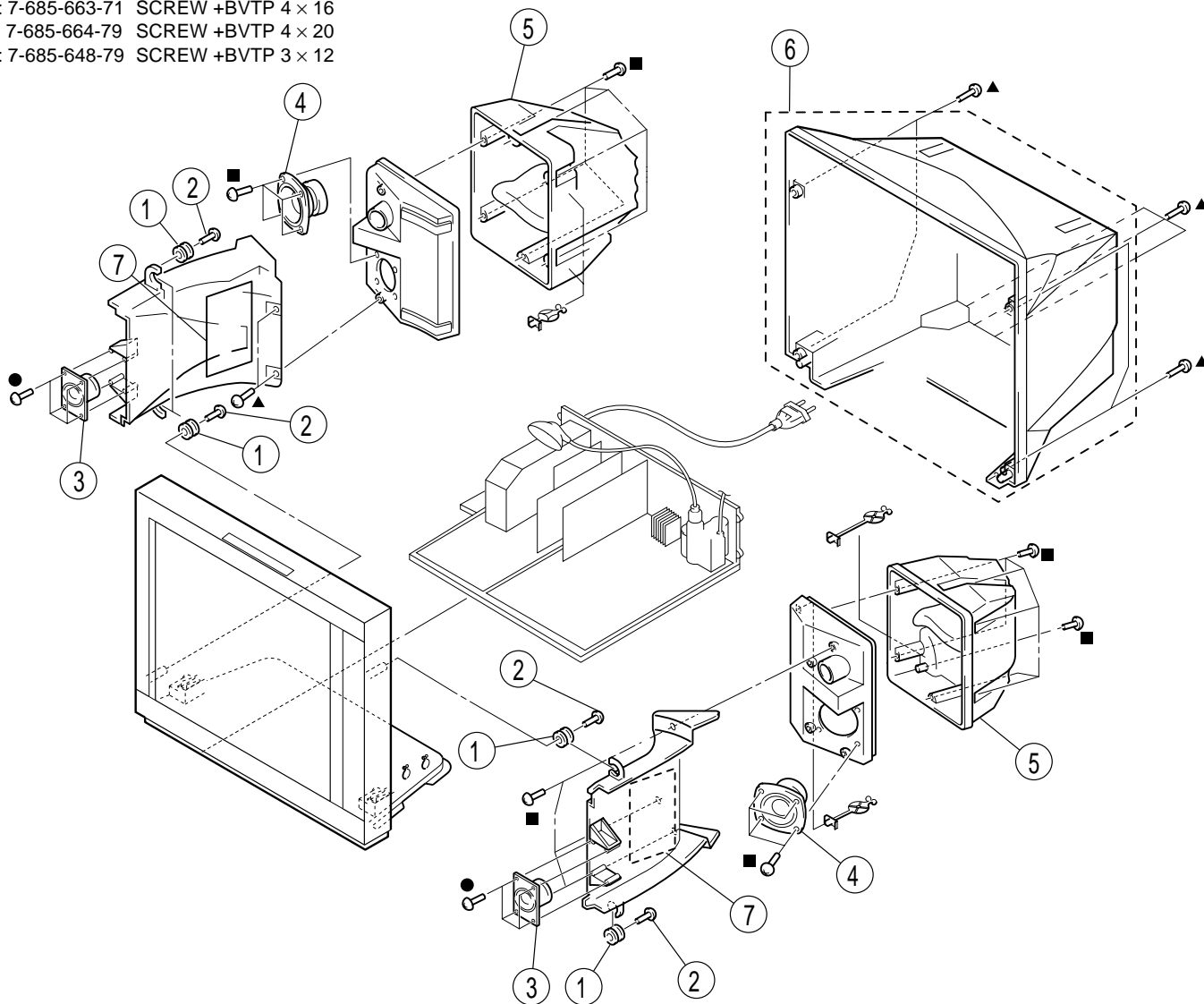
CAUTION: The Aluminium Frame must be connected to the ground with the ground cable from DH board. Failure to do so, may cause the user to suffer electric shock.

7-1. SPEAKER BRACKET

■: 7-685-663-71 SCREW +BVTP 4 × 16

▲: 7-685-664-79 SCREW +BVTP 4 × 20

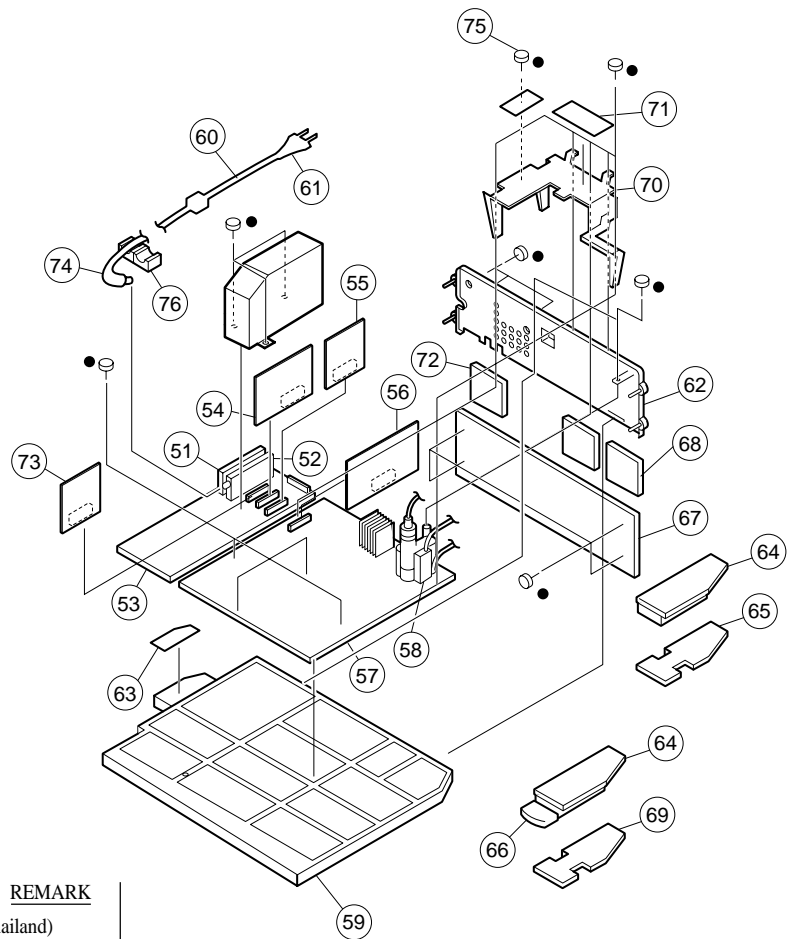
●: 7-685-648-79 SCREW +BVTP 3 × 12



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	4-374-745-12	CUSHION (A) (Taiwan)	
	4-374-745-21	CUSHION (A) (Malaysia, Thailand)	
2	4-064-929-02	SCREW, TP+TWH 4X25	
3	1-529-562-11	SPEAKER (7X4CM)	
4	1-505-473-11	SPEAKER (12CM)	
5	* 4-071-339-01	DUCT, SPEAKER	
6	X-4036-879-3	COVER ASSY, REAR	
7	* 4-073-084-01	DUCT, CUSHION (Taiwan)	
	* 4-073-084-21	DUCT, CUSHION (Malaysia)	
	* 4-073-084-31	DUCT, CUSHION (Thailand)	

7-2. CHASSIS

●: 7-685-648-71 SCREW +BVTP 3 × 12

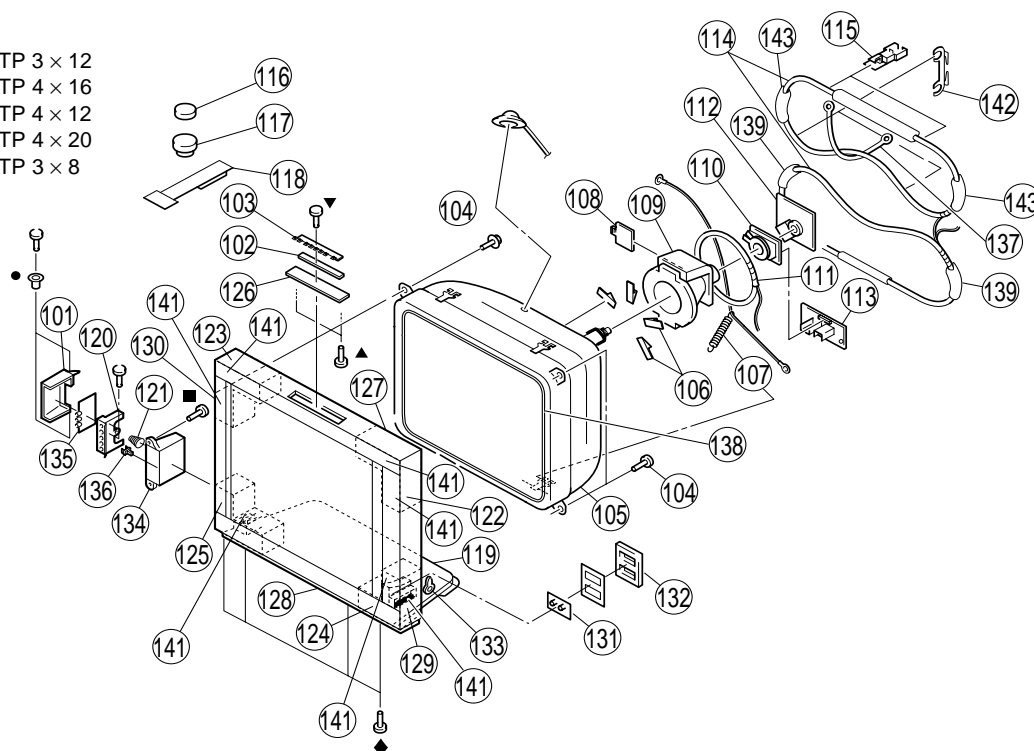


REF. NO.	PART NO.	DESCRIPTION	REMARK
51	8-598-452-20	TUNER, FSS BTF-WG442 (Malaysia,Thailand)	
	8-598-477-10	TUNER, FSS BTF-WG411 (Taiwan)	
52	8-598-476-00	TUNER, FSS BTF-FG401 (Taiwan)	
	8-598-508-10	TUNER, FSS BTF-LG436 (Malaysia,Thailand)	
53	* A-1299-185-A	A BOARD COMPLETE (Thailand)	
	* A-1299-153-A	A BOARD COMPLETE (Malaysia)	
	* A-1299-202-B	A BOARD COMPLETE (Taiwan)	
54	* A-1136-054-A	B3 BOARD COMPLETE (Taiwan)	
	* A-1136-083-A	B3 BOARD COMPLETE (Malaysia)	
	* A-1136-086-A	B3 BOARD COMPLETE (Thailand)	
55	* A-1343-778-C	E BOARD MOUNTED (Taiwan)	
	* A-1343-840-A	E BOARD MOUNTED (Malaysia)	
	* A-1343-844-A	E BOARD MOUNTED (Thailand)	
56	* A-1343-843-A	D1 BOARD MOUNTED (Thailand)	
	* A-1343-839-A	D1 BOARD MOUNTED (Malaysia)	
	* A-1343-777-A	D1 BOARD MOUNTED (Taiwan)	
57	* A-1346-928-A	D BOARD COMPLETE (Malaysia)	
	* A-1346-929-A	D BOARD COMPLETE (Thailand)	
	* A-1346-932-A	D BOARD COMPLETE (Taiwan)	
58	△ 1-453-326-11	TRANSFORMER ASSY, FLYBACK (NX4601/J1J4)	
59	* 4-071-314-01	BRACKET, MAIN	
60	△ 4-022-115-12	HOLDER, AC CORD (Malaysia)	
	△ 4-022-115-01	HOLDER, AC CORD (Taiwan)	
	△ 4-022-115-31	HOLDER, AC CORD (Thailand)	
61	△ 1-791-439-11	CORD, POWER (WITH CONNECTOR)(Malaysia)	
	△ 1-792-065-11	CORD, FILTER WITH POWER (Thailand, Taiwan)	
62	* 4-071-315-01	BRACKET, TERMINAL	
63	* A-1241-415-A	F1 BOARD MOUNTED (Thailand)	
	* A-1241-412-A	F1 BOARD MOUNTED (Malaysia)	
	* A-1241-402-A	F1 BOARD MOUNTED (Taiwan)	

REF. NO.	PART NO.	DESCRIPTION	REMARK
64	* 4-071-307-02	HOLDER, F2/H1 BOARD	
65	* A-1372-784-A	H1 BOARD MOUNTED (Thailand)	
	* A-1372-779-A	H1 BOARD MOUNTED (Malaysia)	
	* A-1372-728-A	H1 BOARD MOUNTED (Taiwan)	
66	4-071-305-03	BUTTON, POWER	
67	* A-1394-978-A	J BOARD COMPLETE (Malaysia)	
	* A-1394-979-A	J BOARD COMPLETE (Taiwan)	
	* A-1394-981-A	J BOARD COMPLETE (Thailand)	
68	* A-1136-069-A	BC4 BOARD COMPLETE	
69	* A-1241-403-A	F2 BOARD MOUNTED (Taiwan)	
	* A-1241-413-A	F2 BOARD MOUNTED (Malaysia)	
	* A-1241-416-A	F2 BOARD MOUNTED (Thailand)	
70	* 4-071-316-01	SUPPORTER, PWB	
71	* A-1343-744-A	DH BOARD MOUNTED (Taiwan)	
	* A-1343-842-A	DH BOARD MOUNTED (Thailand)	
	* A-1343-860-A	DH BOARD MOUNTED (Malaysia)	
72	* A-1299-092-A	A1 BOARD COMPLETE (Taiwan)	
	* A-1299-154-A	A1 BOARD COMPLETE (Malaysia)	
	* A-1299-172-A	A1 BOARD COMPLETE (Thailand)	
73	* A-1342-535-A	V BOARD MOUNTED (Thailand)	
	* A-1342-528-A	V BOARD MOUNTED (Malaysia)	
74	1-790-082-11	CABLE, RF (KV-ES34M61)	
	1-792-458-11	CABLE, RF (KV-ES34N90)	
75	* A-1343-862-A	E2 BOARD MOUNTED (Taiwan)	
	* A-1343-864-A	E2 BOARD MOUNTED (Thailand)	
	* A-1343-865-A	E2 BOARD MOUNTED (Malaysia)	
76	1-543-827-31	CLAMP, SLEEVE FERRITE	

7-3. PICTURE TUBE

- : 7-685-648-71 SCREW +BVTP 3 × 12
- : 7-685-663-71 SCREW +BVTP 4 × 16
- ▲: 7-685-661-14 SCREW +BVTP 4 × 12
- ◆: 7-685-664-79 SCREW +BVTP 4 × 20
- ▼: 7-685-646-79 SCREW +BVTP 3 × 8



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	4-071-308-01	DOOR, CONTROL			* X-4037-516-1	HOLDER ASSY, CONTROL (Taiwan)	
102	* A-1372-786-A	H3 BOARD MOUNTED (Thailand)		121	4-071-323-01	SPRING, CONE	
	* A-1372-781-A	H3 BOARD MOUNTED (Malaysia)		122	* 4-071-335-01	BRACKET (TR), CRT	
	* A-1372-730-A	H3 BOARD MOUNTED (Taiwan)					
103	4-071-312-03	BUTTON, TOP SW		123	* 4-071-336-01	BRACKET (TL), CRT	
104	4-046-765-12	SCREW, TAPPING 7+CROWN WASHER		124	* 4-071-337-01	BRACKET (BR), CRT	
105	▲ 8-735-062-05	PICTURE TUBE (A80LNH10X) (KV-ES34N90)		125	* 4-071-338-01	BRACKET (BL), CRT	
	▲ 8-735-063-05	PICTURE TUBE (A80LNH10X) (KV-ES34M61)		126	* 4-071-311-02	HOLDER, H3	
106	4-046-600-01	SPACER, DY (Taiwan, Malaysia)		127	X-4037-420-1	FRAME SUB ASSY, TOP (Malaysia, Thailand)	
	4-046-818-01	SPACER, DY (Thailand)			X-4037-510-1	FRAME SUB ASSY, TOP (Taiwan)	
107	4-065-852-01	SPRING, EXTENSION (Malaysia)		128	X-4037-421-1	FRAME SUB ASSY, BOTTOM	
	4-065-852-21	SPRING, EXTENSION (Taiwan, Thailand)		129	X-4037-422-1	FRAME SUB ASSY, RIGHT (Malaysia, Thailand)	
108	2-163-920-01	PLATE, TLH CORRECTION			X-4037-597-1	FRAME SUB ASSY, RIGHT (Taiwan)	
109	▲ 8-451-500-31	DEFLECTION YOKE (Y34RSC2-M3)		130	X-4037-423-1	FRAME SUB ASSY, LEFT	
110	8-453-007-31	NA324-M3		131	* 4-071-306-01	LIGHT, GUIDE	
				132	* 4-072-950-01	BRACKET, LIGHT GUIDE	
111	1-452-896-11	COIL, NA ROTATION (RT200) (Malaysia, Taiwan)		133	4-073-080-01	FASTEN	
	1-452-896-91	COIL, NA ROTATION (RT200) (Thailand)		134	* 4-071-310-04	BRACKET, SIDE	
112	* A-1332-034-A	C BOARD MOUNTED (THAILAND)		135	* A-1372-729-A	H2 BOARD MOUNTED (Taiwan)	
	* A-1332-032-A	C BOARD MOUNTED (MALAYSIA)			* A-1372-780-A	H2 BOARD MOUNTED (Malaysia)	
	* A-1332-005-A	C BOARD MOUNTED (TAIWAN)			* A-1372-785-A	H2 BOARD MOUNTED (Thailand)	
113	* A-1342-536-A	VM BOARD MOUNTED (THAILAND)		136	4-047-464-01	CATCHER, PUSH	
	* A-1342-529-A	VM BOARD MOUNTED (MALAYSIA)		137	4-067-455-01	BAND, DGC	
	* A-1342-515-A	VM BOARD MOUNTED (TAIWAN)		138	▲ 1-419-295-11	COIL, LANDING CORRECTION	
114	▲ 1-419-293-11	COIL, DEGAUSSING (Malaysia, Thailand)		139	* 4-074-513-01	CUSHION (L), DGC (Taiwan)	
	▲ 1-419-554-11	COIL, DEGAUSSING (Taiwan)			* 4-074-513-21	CUSHION (L), DGC (Malaysia)	
115	4-067-221-02	CLIP, DGC (Taiwan, Thailand)			* 4-074-513-31	CUSHION (L), DGC (Thailand)	
	4-067-493-02	CLIP, DGC (Malaysia)		140	4-072-956-01	SCREW SPECIAL (DIA.8)(+TP4X9)	
116	1-542-032-00	MAGNET, DISC		141	4-071-673-01	SHEET, COVER	
117	1-452-014-11	CIRCULAR DISC MAGNET B					
118	4-051-734-21	PIECE B(120), CONV.CORRECT (Taiwan)		142	4-054-297-01	HOLDER, DGC (Taiwan)	
	4-051-734-41	PIECE B(120), CONV.CORRECT (Thailand)			4-054-297-11	HOLDER, DGC (Thailand)	
	X 4-387-214-03	PERMALLOY ASSY, CORRECTION (Malaysia)			4-054-369-01	HOLDER, DGC (Malaysia)	
119	* 4-071-334-01	COVER, FRONT		143	* 4-074-512-01	CUSHION (S), DGC (Taiwan)	
120	* X-4037-280-1	HOLDER ASSY, CONTROL (Malaysia, Thailand)			* 4-074-512-21	CUSHION (S), DGC (Malaysia)	
					* 4-074-512-31	CUSHION (S), DGC (Thailand)	

SECTION 8

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 μ F

COILS

• MMH : mH, UH : μ H

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1299-185-A	A BOARD COMPLETE (Thailand)			C1204	1-164-690-91	CERAMIC CHIP 0.0022UF	5.00% 50V
* A-1299-153-A	A BOARD COMPLETE (Malaysia)			C1205	1-164-690-91	CERAMIC CHIP 0.0022UF	5.00% 50V
A-1299-202-B	A BOARD COMPLETE (Taiwan)	*****		C1206	1-126-965-11	ELECT 22UF	20.00% 50V
* 1-555-110-00	CABLE, PIN			C1207	1-107-725-11	CERAMIC CHIP 0.1UF	10.00% 16V
4-382-854-11	SCREW (M3X10), P, SW (+)			C1208	1-126-023-11	ELECT 100UF	20.00% 16V
	<CAPACITOR>			C1209	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C004	1-163-001-11	CERAMIC CHIP 220PF	10.00% 50V	C1210	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C005	1-163-001-11	CERAMIC CHIP 220PF	10.00% 50V	C1211	1-163-989-11	CERAMIC CHIP 0.033UF	10.00% 25V
C006	1-107-725-11	CERAMIC CHIP 0.1UF	10.00% 16V	C1212	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C007	1-126-933-11	ELECT 100UF	20.00% 16V	C1213	1-163-989-11	CERAMIC CHIP 0.033UF	10.00% 25V
C009	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C1214	1-126-055-11	ELECT 470UF	20.00% 50V
C010	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C1215	1-126-055-11	ELECT 470UF	20.00% 50V
C012	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V	C1216	1-126-943-11	ELECT 2200UF	20.00% 25V
C013	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C1217	1-126-943-11	ELECT 2200UF	20.00% 25V
C014	1-126-967-11	ELECT 47UF	20.00% 50V	C1219	1-126-961-11	ELECT 2.2UF	20.00% 50V
C015	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V	C1220	1-126-961-11	ELECT 2.2UF	20.00% 50V
C016	1-163-243-11	CERAMIC CHIP 47PF	5.00% 50V	C1221	1-126-933-11	ELECT 100UF	20.00% 16V
C017	1-163-113-00	CERAMIC CHIP 68PF	5.00% 50V	C1222	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C018	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C1223	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C019	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C1224	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C020	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C1225	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C021	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C1229	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C024	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V	C1230	1-125-838-91	CERAMIC CHIP 2.2UF	10% 6.3V
C028	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V	C1241	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C030	1-126-960-11	ELECT 1UF	20.00% 50V	C1242	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C031	1-107-725-11	CERAMIC CHIP 0.1UF	10.00% 16V	C1243	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C032	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C1244	1-110-617-51	ELECT 2200UF	20.00% 50V
C033	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V	C1245	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C034	1-163-259-91	CERAMIC CHIP 220PF	5.00% 50V	C1246	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C103	1-107-725-11	CERAMIC CHIP 0.1UF	10.00% 16V	C1247	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C104	1-126-933-11	ELECT 100UF	20.00% 16V	C1248	1-110-617-51	ELECT 2200UF	20.00% 50V
C107	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V	C1249	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V
C108	1-126-933-11	ELECT 100UF	20.00% 16V	C1251	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C109	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V	C1252	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C110	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V	C1253	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C111	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V	C1255	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V
C112	1-126-933-11	ELECT 100UF	20.00% 16V	C1256	1-137-194-81	MYLAR 0.47UF	5.00% 50V
C113	1-126-967-11	ELECT 47UF	20.00% 50V	C1258	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C114	1-126-967-11	ELECT 47UF	20.00% 50V	C1259	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C301	1-126-767-11	ELECT 1000UF	20.00% 16V	C1260	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C326	1-126-964-11	ELECT 10UF	20.00% 50V	C1262	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1201	1-107-725-11	CERAMIC CHIP 0.1UF	10.00% 16V	C1263	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C1202	1-107-725-11	CERAMIC CHIP 0.1UF	10.00% 16V	C1264	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C1203	1-164-505-11	CERAMIC CHIP 2.2UF	16V	C1265	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
				C1267	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V
				C1268	1-137-194-81	MYLAR 0.47UF	5.00% 50V
				C1270	1-163-007-11	CERAMIC CHIP 680PF	10.00% 50V



REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
C1271	1-163-007-11	CERAMIC CHIP	680PF	10.00% 50V	C3354	1-126-967-11	ELECT	47UF	20.00% 50V
C1272	1-126-941-11	ELECT	470UF	20.00% 25V	C3355	1-126-967-11	ELECT	47UF	20.00% 50V
C1273	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V					
C1274	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V					
C1275	1-163-007-11	CERAMIC CHIP	680PF	10.00% 50V					<CONNECTOR>
C1276	1-163-007-11	CERAMIC CHIP	680PF	10.00% 50V	CN1100*	1-560-218-00	PIN, CONNECTOR	7P	
C1277	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00% 50V	CN1108	1-695-299-11	CONNECTOR, BOARD TO BOARD	50P	
C1279	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00% 50V	CN1116	1-695-915-11	TAB (CONTACT)		
C1281	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V	CN1118	1-793-493-11	CONNECTOR, BOARD TO BOARD	20P (KV-ES34M61)	
C1282	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V					
C1283	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00% 50V	CN1138*	1-564-507-11	PLUG, CONNECTOR	4P	
C1284	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00% 50V	CN1140	1-793-494-11	CONNECTOR, BOARD TO BOARD	40P	
C1285	1-126-933-11	ELECT	100UF	20.00% 16V	CN1160*	1-564-513-11	PLUG, CONNECTOR	10P	
C1286	1-126-933-11	ELECT	100UF	20.00% 16V	CN1162	1-900-903-64	CONNECTOR ASSY	20P	
C1287	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	CN1180	1-793-495-11	CONNECTOR, BOARD TO BOARD	50P	
C1288	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	CN1190*	1-564-510-11	PLUG, CONNECTOR	7P	
C1289	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	CN1193*	1-564-513-11	PLUG, CONNECTOR	10P	
C1290	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	CN1195*	1-564-506-11	PLUG, CONNECTOR	3P	
C1291	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	CN1196*	1-508-797-00	PIN, CONNECTOR	4P	
C1292	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V					
C1297	1-136-177-00	MYLAR	1UF	5.00% 50V					<COMPOSITION CIRCUIT BLOCK>
C1298	1-136-177-00	MYLAR	1UF	5.00% 50V					
C1301	1-126-933-11	ELECT	100UF	20.00% 16V	CP1300	1-251-658-31	SPLITTER	RF	
C1302	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V					
C2200	1-126-964-11	ELECT	10UF	20.00% 50V					<DIODE>
C2201	1-126-964-11	ELECT	10UF	20.00% 50V	D001	8-719-073-01	DIODE MA111-TX		
C2202	1-126-964-11	ELECT	10UF	20.00% 50V	D002	8-719-073-01	DIODE MA111-TX		
C2203	1-126-963-11	ELECT	4.7UF	20.00% 50V	D003	8-719-073-01	DIODE MA111-TX		
C2204	1-125-838-91	CERAMIC CHIP	2.2UF	10% 6.3V	D004	8-719-073-01	DIODE MA111-TX		
C2205	1-125-838-91	CERAMIC CHIP	2.2UF	10% 6.3V	D005	8-719-073-01	DIODE MA111-TX		
C2206	1-126-964-11	ELECT	10UF	20.00% 50V	D006	8-719-073-01	DIODE MA111-TX		
C2209	1-126-968-11	ELECT	100UF	20.00% 50V	D006	8-719-988-61	DIODE 1SS355TE-17		
C2600	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	D007	8-719-158-18	DIODE RD5.6SB3-T1		
C2601	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	D013	8-719-158-18	DIODE RD5.6SB3-T1		
C2602	1-126-933-11	ELECT	100UF	20.00% 16V	D014	8-719-073-01	DIODE MA111-TX		
C2603	1-126-933-11	ELECT	100UF	20.00% 16V	D100	8-719-073-01	DIODE MA111-TX (KV-ES34M61)		
C2605	1-126-925-11	ELECT	470UF	20.00% 10V	D300	8-719-073-01	DIODE MA111-TX		
C2606	1-164-344-11	CERAMIC CHIP	0.068UF	10.00% 25V	D301	8-719-073-01	DIODE MA111-TX		
C2608	1-126-916-11	ELECT	1000UF	20.00% 6.3V	D302	8-719-073-01	DIODE MA111-TX		
C2609	1-126-935-11	ELECT	470UF	20.00% 6.3V	D317	8-719-073-01	DIODE MA111-TX		
C2610	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	D1205	8-719-158-35	DIODE RD9.1SB-T1		
C2611	1-126-934-11	ELECT	220UF	20.00% 16V	D1208	8-719-073-01	DIODE MA111-TX		
C2612	1-104-665-11	ELECT	100UF	20.00% 25V	D1209	8-719-073-01	DIODE MA111-TX		
C2613	1-104-665-11	ELECT	100UF	20.00% 25V	D2200	8-719-158-35	DIODE RD9.1SB-T1		
C2614	1-126-925-11	ELECT	470UF	20.00% 10V	D2201	8-719-158-35	DIODE RD9.1SB-T1		
C3302	1-126-964-11	ELECT	10UF	20.00% 50V	D2600	8-719-500-70	DIODE D5S4M		
		(KV-ES34N90)							
C3330	1-107-725-11	CERAMIC CHIP	0.1UF	10.00% 16V					
C3331	1-126-933-11	ELECT	100UF	20.00% 16V					
C3336	1-126-933-11	ELECT	100UF	20.00% 16V					<FERRITE BEAD>
C3337	1-163-809-11	CERAMIC CHIP	0.047UF	10.00% 25V	FB001	1-414-233-22	INDUCTOR CHIP	0UH	
		(KV-ES34N90)			FB002	1-414-233-22	INDUCTOR CHIP	0UH	
C3338	1-163-005-11	CERAMIC CHIP	470PF	10.00% 50V	FB003	1-414-233-22	INDUCTOR CHIP	0UH	
C3350	1-163-005-11	CERAMIC CHIP	470PF	10.00% 50V	FB004	1-414-233-22	INDUCTOR CHIP	0UH	
C3351	1-163-005-11	CERAMIC CHIP	470PF	10.00% 50V	FB005	1-414-233-22	INDUCTOR CHIP	0UH	
C3352	1-163-005-11	CERAMIC CHIP	470PF	10.00% 50V	FB006	1-414-233-22	INDUCTOR CHIP	0UH	
C3353	1-126-933-11	ELECT	100UF	20.00% 16V	FB007	1-414-233-22	INDUCTOR CHIP	0UH	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
FB008	1-414-233-22	INDUCTOR CHIP	0UH	L2600	1-419-249-11	INDUCTOR	15UH
FB1205	1-410-397-21	FERRITE	1.1UH	L2601	1-419-249-11	INDUCTOR	15UH
FB1206	1-410-397-21	FERRITE	1.1UH	L2602	1-412-525-31	INDUCTOR	10UH
FB1207	1-410-397-21	FERRITE	1.1UH	L2603	1-412-525-31	INDUCTOR	10UH
FB1208	1-410-397-21	FERRITE	1.1UH	L3302	1-414-856-11	INDUCTOR	10UH
FB1300	1-216-295-91	SHORT	0	L3303	1-414-856-11	INDUCTOR	10UH
		<FILTER>		L3304	1-414-856-11	INDUCTOR	10UH
FL001	1-236-071-11	ENCAPSULATED COMPONENT		L3305	1-414-856-11	INDUCTOR	10UH
		<IC>		L3306	1-414-856-11	INDUCTOR	10UH
IC001	8-752-910-27	IC CXP750096-013Q (KV-ES34M61)		PS1201	1-532-686-21	LINK, IC 2.7A/150V	
IC001	8-752-913-11	IC CXP750096-018Q (KV-ES34N90)		PS1202	1-532-686-21	LINK, IC 2.7A/150V	
IC002	8-759-042-02	IC S-80743AL-A7-T1		PS1203	1-532-686-21	LINK, IC 2.7A/150V	
IC003	8-759-527-76	IC M24C08-MN6T		PS1204	1-532-686-21	LINK, IC 2.7A/150V	
IC004	8-759-527-75	IC M24C04-MN6T				<TRANSISTOR>	
IC100	8-759-042-02	IC S-80743AL-A7-T1 (KV-ES34M61)		Q001	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
IC1201	8-759-273-12	IC TDA7315D013TR		Q002	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
IC1203	8-759-553-45	IC TDA7481		Q003	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
IC1204	8-759-553-45	IC TDA7481		Q004	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
IC1205	8-759-100-96	IC UPC4558G2-T2		Q005	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
IC1205	8-759-100-96	IC NJM4558M-TE2		Q006	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
IC2200	8-759-745-64	IC NJM4560M-TE2		Q007	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
IC2600	8-759-394-36	IC BA09T		Q101	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
IC2601	8-759-450-47	IC BA05T		Q301	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
IC2603	8-759-640-19	IC PQ1CG2032FZ		Q313	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
IC2604	8-759-644-37	IC PQ5EV3		Q1205	1-801-806-11	TRANSISTOR DTC144EKA-T146	
		<CHIP CONDUCTOR>		Q1206	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
JR001	1-216-295-91	SHORT	0	Q1207	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
JR002	1-216-295-91	SHORT	0	Q1209	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
JR102	1-216-295-91	SHORT	0	Q1210	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
JR107	1-216-295-91	SHORT	0	Q1211	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
JR1301	1-216-295-91	SHORT	0 (KV-ES34M61)	Q2200	1-801-806-11	TRANSISTOR DTC144EKA-T146	
JR2601	1-216-295-91	SHORT	0	Q2201	1-801-806-11	TRANSISTOR DTC144EKA-T146	
		<COIL>		Q3300	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
L001	1-414-856-11	INDUCTOR	10UH			<RESISTOR>	
L002	1-414-856-11	INDUCTOR	10UH	R001	1-216-033-00	RES-CHIP	220 5% 1/10W
L003	1-414-751-11	INDUCTOR	1UH	R002	1-216-033-00	RES-CHIP	220 5% 1/10W
L005	1-414-856-11	INDUCTOR	10UH	R003	1-216-049-91	RES-CHIP	1K 5% 1/10W
L101	1-414-856-11	INDUCTOR	10UH	R004	1-216-295-91	SHORT	0
L102	1-414-856-11	INDUCTOR	10UH	R005	1-216-295-91	SHORT	0
L103	1-414-856-11	INDUCTOR	10UH	R006	1-216-033-00	RES-CHIP	220 5% 1/10W
L104	1-414-856-11	INDUCTOR	10UH	R007	1-216-033-00	RES-CHIP	220 5% 1/10W
L105	1-414-856-11	INDUCTOR	10UH			(KV-ES34N90)	
L1201	1-414-187-11	INDUCTOR	47UH	R008	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
L1202	1-416-857-11	INDUCTOR	65UH	R009	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
L1203	1-416-857-11	INDUCTOR	65UH			(KV-ES34N90)	
L1204	1-416-966-11	INDUCTOR	0UH	R010	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
L1205	1-416-966-11	INDUCTOR	0UH	R011	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
L1300	1-414-856-11	INDUCTOR	10UH	R012	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
				R013	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
				R014	1-216-025-91	RES-CHIP	100 5% 1/10W
				R015	1-216-025-91	RES-CHIP	100 5% 1/10W
				R016	1-216-057-00	RES-CHIP	2.2K 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R017	1-216-049-91	RES-CHIP	1K	5%	1/10W	R068	1-216-073-00	RES-CHIP	10K	5%	1/10W
R018	1-216-045-00	RES-CHIP	680	5%	1/10W	R069	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R019	1-216-049-91	RES-CHIP	1K	5%	1/10W	R070	1-216-033-00	RES-CHIP	220	5%	1/10W
R020	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R071	1-216-025-91	RES-CHIP	100	5%	1/10W
R021	1-216-295-91	SHORT	0			R072	1-216-025-91	RES-CHIP	100	5%	1/10W
R022	1-216-033-00	RES-CHIP	220	5%	1/10W	R073	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R023	1-216-025-91	RES-CHIP	100	5%	1/10W	R074	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R024	1-216-063-91	RES-CHIP	3.9K	5%	1/10W	R075	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R025	1-216-033-00	RES-CHIP	220	5%	1/10W	R076	1-216-295-91	SHORT	0		
R026	1-216-033-00	RES-CHIP	220	5%	1/10W	R077	1-216-025-91	RES-CHIP	100	5%	1/10W
R027	1-216-049-91	RES-CHIP	1K	5%	1/10W	R078	1-216-295-91	SHORT	0		
R028	1-216-049-91	RES-CHIP	1K	5%	1/10W	R079	1-216-025-91	RES-CHIP	100	5%	1/10W
R029	1-216-049-91	RES-CHIP	1K	5%	1/10W	R080	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R031	1-216-033-00	RES-CHIP	220	5%	1/10W	R081	1-216-025-91	RES-CHIP	100	5%	1/10W
R032	1-216-049-91	RES-CHIP	1K	5%	1/10W	R082	1-216-041-00	RES-CHIP	470	5%	1/10W
R033	1-216-033-00	RES-CHIP	220	5%	1/10W	R083	1-216-049-91	RES-CHIP	1K	5%	1/10W
R035	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R084	1-216-049-91	RES-CHIP	1K	5%	1/10W
R036	1-216-033-00 (KV-ES34M61)	RES-CHIP	220	5%	1/10W	R085	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R036	1-216-083-00 (KV-ES34N90)	RES-CHIP	27K	5%	1/10W	R086	1-216-073-00	RES-CHIP	10K	5%	1/10W
R037	1-216-033-00 (KV-ES34M61)	RES-CHIP	220	5%	1/10W	R087	1-216-033-00	RES-CHIP	220	5%	1/10W
R037	1-216-083-00 (KV-ES34N90)	RES-CHIP	27K	5%	1/10W	R088	1-216-049-91	RES-CHIP	1K	5%	1/10W
R038	1-216-045-00	RES-CHIP	680	5%	1/10W	R089	1-216-049-91	RES-CHIP	1K	5%	1/10W
R039	1-216-025-91	RES-CHIP	100	5%	1/10W	R090	1-216-295-91	SHORT	0		
R040	1-216-033-00	RES-CHIP	220	5%	1/10W	R091	1-216-295-91	SHORT	0		
R041	1-216-025-91	RES-CHIP	100	5%	1/10W	R092	1-216-033-00	RES-CHIP	220	5%	1/10W
R042	1-216-295-91	SHORT	0			R093	1-216-073-00	RES-CHIP	10K	5%	1/10W
R043	1-216-025-91	RES-CHIP	100	5%	1/10W	R094	1-216-073-00	RES-CHIP	10K	5%	1/10W
R044	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R095	1-216-049-91	RES-CHIP	1K	5%	1/10W
R045	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R096	1-216-049-91	RES-CHIP	1K	5%	1/10W
R046	1-216-033-00	RES-CHIP	220	5%	1/10W	R097	1-216-025-91	RES-CHIP	100	5%	1/10W
R047	1-216-033-00	RES-CHIP	220	5%	1/10W	R098	1-216-025-91	RES-CHIP	100	5%	1/10W
R048	1-216-073-00	RES-CHIP	10K	5%	1/10W	R099	1-216-025-91	RES-CHIP	100	5%	1/10W
R049	1-216-689-11	METAL CHIP (KV-ES34N90)	39K	0.5%	1/10W	R100	1-216-025-91 (KV-ES34N90)	RES-CHIP	100	5%	1/10W
R050	1-216-689-11	METAL CHIP (KV-ES34N90)	39K	0.5%	1/10W	R101	1-216-025-91	RES-CHIP	100	5%	1/10W
R051	1-216-049-91	RES-CHIP	1K	5%	1/10W	R102	1-216-025-91 (KV-ES34M61)	RES-CHIP	100	5%	1/10W
R052	1-216-049-91	RES-CHIP	1K	5%	1/10W	R104	1-216-025-91 (KV-ES34N90)	RES-CHIP	100	5%	1/10W
R053	1-216-049-91	RES-CHIP	1K	5%	1/10W	R105	1-216-295-91	SHORT	0		
R054	1-216-033-00	RES-CHIP	220	5%	1/10W	R106	1-216-049-91 (KV-ES34N90)	RES-CHIP	1K	5%	1/10W
R055	1-216-295-91	SHORT	0			R109	1-216-041-00	RES-CHIP	470	5%	1/10W
R056	1-216-295-91	SHORT	0			R110	1-216-043-91	RES-CHIP	560	5%	1/10W
R057	1-216-295-91	SHORT	0			R111	1-216-025-91	RES-CHIP	100	5%	1/10W
R058	1-216-295-91	SHORT	0			R112	1-216-025-91	RES-CHIP	100	5%	1/10W
R059	1-216-033-00	RES-CHIP	220	5%	1/10W	R114	1-216-065-91 (KV-ES34N90)	RES-CHIP	4.7K	5%	1/10W
R060	1-216-033-00	RES-CHIP	220	5%	1/10W	R115	1-216-065-91 (KV-ES34N90)	RES-CHIP	4.7K	5%	1/10W
R061	1-216-025-91	RES-CHIP	100	5%	1/10W	R116	1-216-025-91	RES-CHIP	100	5%	1/10W
R062	1-216-049-91	RES-CHIP	1K	5%	1/10W	R117	1-216-025-91	RES-CHIP	100	5%	1/10W
R063	1-216-025-91	RES-CHIP	100	5%	1/10W	R118	1-216-025-91	RES-CHIP	100	5%	1/10W
R064	1-216-025-91	RES-CHIP	100	5%	1/10W	R301	1-216-113-00	RES-CHIP	470K	5%	1/10W
R065	1-216-045-00	RES-CHIP	680	5%	1/10W	R302	1-216-089-91	RES-CHIP	47K	5%	1/10W
R066	1-216-049-91	RES-CHIP	1K	5%	1/10W	R303	1-216-089-91	RES-CHIP	47K	5%	1/10W
R067	1-216-073-00	RES-CHIP	10K	5%	1/10W	R1201	1-216-033-00	RES-CHIP	220	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C8116	1-164-161-11	CERAMIC CHIP	0.0022UF 10.00% 50V			<CONNECTOR>	
C8117	1-126-382-11	ELECT	100UF 20.00% 16V				
C8118	1-127-532-11	ELECT	47UF 20.00% 6.3V				
C8119	1-126-795-11	ELECT	10UF 20.00% 25V				
C8120	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V				
C8121	1-125-838-91	CERAMIC CHIP	2.2UF 10% 6.3V			<FERRITE BEAD>	
C8122	1-125-838-91	CERAMIC CHIP	2.2UF 10% 6.3V				
C8123	1-127-532-11	ELECT	47UF 20.00% 6.3V				
C8124	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V				
C8125	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V				
C8126	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V				
C8127	1-163-235-11	CERAMIC CHIP	22PF 5.00% 50V				
C8128	1-163-235-11	CERAMIC CHIP	22PF 5.00% 50V				
C8129	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V				
C8130	1-126-382-11	ELECT	100UF 20.00% 16V				
C8131	1-126-382-11	ELECT	100UF 20.00% 16V				
C8132	1-125-838-91	CERAMIC CHIP	2.2UF 10% 6.3V				
C8133	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V				
C8134	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V				
C8135	1-126-382-11	ELECT	100UF 20.00% 16V				
C8136	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V				
C8137	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V				
C8138	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V				
C8139	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V				
C8140	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V				
C8141	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V				
C8142	1-163-235-11	CERAMIC CHIP	22PF 5.00% 50V				
C8143	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V				
C8144	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V				
C8145	1-163-233-11	CERAMIC CHIP	18PF 5.00% 50V				
C8146	1-107-823-11	CERAMIC CHIP	0.47UF 10.00% 16V				
C8147	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V				
C8150	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V				
C8155	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V				
C8161	1-126-382-11	ELECT	100UF 20.00% 16V				
C8162	1-164-505-11	CERAMIC CHIP	2.2UF 16V			<IC>	
C8163	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V				
C8166	1-163-004-11	CERAMIC CHIP	0.1UF 10.00% 25V				
C8167	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V				
C8168	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V				
C8197	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V				
C8198	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V				
C8199	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V				
C8200	1-216-295-91	SHORT	0				
C8201	1-216-295-91	SHORT	0				
C8202	1-107-823-11	CERAMIC CHIP	0.47UF 10.00% 16V				
C8203	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V				
C8204	1-107-823-11	CERAMIC CHIP	0.47UF 10.00% 16V				
C8205	1-163-253-11	CERAMIC CHIP	120PF 5.00% 50V				
C8206	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V				
C8207	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V				
C8208	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V				
C8209	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V				
C8210	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V				
C8211	1-115-340-11	CERAMIC CHIP	0.22UF 10.00% 25V				
C8212	1-125-838-91	CERAMIC CHIP	2.2UF 10% 6.3V				
C8213	1-125-838-91	CERAMIC CHIP	2.2UF 10% 6.3V				
C8218	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V				
CN8100	1-793-867-11	PIN, CONNECTOR (PC BORAD)	10P				
CN8101	1-793-867-11	PIN, CONNECTOR (PC BORAD)	10P				
FB8100	1-216-295-91	SHORT	0				
FB8101	1-216-295-91	SHORT	0				
FB8102	1-216-295-91	SHORT	0				
FB8103	1-216-295-91	SHORT	0				
FB8104	1-414-598-11	INDUCTOR CHIP	0UH				
FB8105	1-216-295-91	SHORT	0				
FB8106	1-414-598-11	INDUCTOR CHIP	0UH				
FB8108	1-414-598-11	INDUCTOR CHIP	0UH				
FB8109	1-414-598-11	INDUCTOR CHIP	0UH				
FB8110	1-414-598-11	INDUCTOR CHIP	0UH				
FB8111	1-414-598-11	INDUCTOR CHIP	0UH				
FB8112	1-414-598-11	INDUCTOR CHIP	0UH				
FB8113	1-414-598-11	INDUCTOR CHIP	0UH				
FB8114	1-414-598-11	INDUCTOR CHIP	0UH				
FB8115	1-414-598-11	INDUCTOR CHIP	0UH				
FB8116	1-414-598-11	INDUCTOR CHIP	0UH				
FB8117	1-414-598-11	INDUCTOR CHIP	0UH				
FB8118	1-414-598-11	INDUCTOR CHIP	0UH				
FB8119	1-414-598-11	INDUCTOR CHIP	0UH				
FB8120	1-414-598-11	INDUCTOR CHIP	0UH				
FB8121	1-414-598-11	INDUCTOR CHIP	0UH				
FL8100	1-234-177-21	FILTER, CHIP EMI				<FILTER>	
FL8101	1-234-177-21	FILTER, CHIP EMI					
FL8102	1-234-177-21	FILTER, CHIP EMI					
IC8102	8-759-576-72	IC LF50CDT-TR					
IC8103	8-759-579-68	IC AK4524-TP					
IC8104	8-759-542-87	IC S-80827ANUP-EDQ-T2					
IC8105	8-759-651-20	IC TC9446F-002					
IC8106	8-759-242-70	IC TC7WU04F(TE12R)					
IC8107	8-759-459-69	IC S-80743AN-D7					
JR8102	1-216-295-91	SHORT	0			<CHIP CONDUCTOR>	
JR8103	1-216-295-91	SHORT	0				
L8100	1-412-026-11	INDUCTOR CHIP	1UH				
L8101	1-412-026-11	INDUCTOR CHIP	1UH				
L8102	1-412-026-11	INDUCTOR CHIP	1UH				
L8103	1-412-026-11	INDUCTOR CHIP	1UH				
L8104	1-412-026-11	INDUCTOR CHIP	1UH				
L8105	1-412-026-11	INDUCTOR CHIP	1UH				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<RESISTOR>					
R8101	1-216-295-91	SHORT	0		* A-1136-086-A	B3 BOARD COMPLETE (Thailand)	
R8102	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	* A-1136-083-A	B3 BOARD COMPLETE (Malaysia)
R8103	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	* A-1136-054-A	B3 BOARD COMPLETE (Taiwan)
R8106	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	*****	
R8107	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	<CAPACITOR>	
R8120	1-216-049-91	RES-CHIP	1K	5%	1/10W	C302	1-117-136-11 ELECT CHIP 10UF 20.00% 6.3V
R8121	1-216-025-91	RES-CHIP	100	5%	1/10W	C305	1-163-038-91 CERAMIC CHIP 0.1UF 25V
R8122	1-216-025-91	RES-CHIP	100	5%	1/10W	C306	1-163-038-91 CERAMIC CHIP 0.1UF 25V
R8123	1-216-009-91	RES-CHIP	22	5%	1/10W	C309	1-163-038-91 CERAMIC CHIP 0.1UF 25V
R8124	1-216-009-91	RES-CHIP	22	5%	1/10W	C310	1-163-038-91 CERAMIC CHIP 0.1UF 25V
R8125	1-216-009-91	RES-CHIP	22	5%	1/10W	C312	1-163-275-11 CERAMIC CHIP 0.001UF 5.00% 50V
R8126	1-216-009-91	RES-CHIP	22	5%	1/10W	C313	1-163-038-91 CERAMIC CHIP 0.1UF 25V
R8127	1-216-025-91	RES-CHIP	100	5%	1/10W	C314	1-164-004-11 CERAMIC CHIP 0.1UF 10.00% 25V
R8128	1-216-025-91	RES-CHIP	100	5%	1/10W	C315	1-163-251-11 CERAMIC CHIP 100PF 5.00% 50V
R8129	1-216-009-91	RES-CHIP	22	5%	1/10W	C316	1-163-038-91 CERAMIC CHIP 0.1UF 25V
R8131	1-216-295-91	SHORT	0			C317	1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
R8133	1-216-129-00	RES-CHIP	2.2M	5%	1/10W	C318	1-124-779-00 ELECT CHIP 10UF 20.00% 16V
R8134	1-216-295-91	SHORT	0			C319	1-126-394-11 ELECT CHIP 10UF 20.00% 16V
R8135	1-216-295-91	SHORT	0			C320	1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
R8137	1-216-295-91	SHORT	0			C321	1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
R8138	1-216-049-91	RES-CHIP	1K	5%	1/10W	C323	1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
R8139	1-216-037-00	RES-CHIP	330	5%	1/10W	C324	1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
R8140	1-216-049-91	RES-CHIP	1K	5%	1/10W	C325	1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
R8141	1-216-295-91	SHORT	0			C327	1-163-038-91 CERAMIC CHIP 0.1UF 25V
R8143	1-216-295-91	SHORT	0			C330	1-163-038-91 CERAMIC CHIP 0.1UF 25V
R8144	1-216-025-91	RES-CHIP	100	5%	1/10W	C331	1-163-038-91 CERAMIC CHIP 0.1UF 25V
R8145	1-216-033-00	RES-CHIP	220	5%	1/10W	C332	1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
R8146	1-216-033-00	RES-CHIP	220	5%	1/10W	C333	1-216-295-91 SHORT 0
R8147	1-216-295-91	SHORT	0			C337	1-163-038-91 CERAMIC CHIP 0.1UF 25V
R8148	1-216-295-91	SHORT	0			C338	1-163-038-91 CERAMIC CHIP 0.1UF 25V
R8149	1-216-037-00	RES-CHIP	330	5%	1/10W	C339	1-163-038-91 CERAMIC CHIP 0.1UF 25V
R8155	1-216-295-91	SHORT	0			C340	1-163-038-91 CERAMIC CHIP 0.1UF 25V
R8157	1-216-037-00	RES-CHIP	330	5%	1/10W	C341	1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
R8158	1-216-037-00	RES-CHIP	330	5%	1/10W	C346	1-163-038-91 CERAMIC CHIP 0.1UF 25V
R8161	1-216-025-91	RES-CHIP	100	5%	1/10W	C347	1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
R8168	1-216-025-91	RES-CHIP	100	5%	1/10W	C349	1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
R8169	1-216-097-91	RES-CHIP	100K	5%	1/10W	C350	1-126-396-11 ELECT CHIP 47UF 20.00% 16V
R8170	1-216-121-91	RES-CHIP	1M	5%	1/10W	C353	1-126-204-11 ELECT CHIP 47UF 20.00% 16V
R8171	1-216-025-91	RES-CHIP	100	5%	1/10W	C354	1-117-136-11 ELECT CHIP 10UF 20.00% 6.3V
R8172	1-216-025-91	RES-CHIP	100	5%	1/10W	C355	1-117-136-11 ELECT CHIP 10UF 20.00% 6.3V
R8173	1-216-025-91	RES-CHIP	100	5%	1/10W	C361	1-124-779-00 ELECT CHIP 10UF 20.00% 16V
R8200	1-216-073-00	RES-CHIP	10K	5%	1/10W	C362	1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
R8201	1-216-025-91	RES-CHIP	100	5%	1/10W	C363	1-163-017-00 CERAMIC CHIP 0.0047UF 10.00% 50V
R8202	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	C501	1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
R8203	1-208-782-11	METAL CHIP	1K	0.5%	1/10W	C502	1-124-779-00 ELECT CHIP 10UF 20.00% 16V
R8204	1-216-073-00	RES-CHIP	10K	5%	1/10W	C503	1-124-779-00 ELECT CHIP 10UF 20.00% 16V
R8205	1-208-782-11	METAL CHIP	1K	0.5%	1/10W	C505	1-124-779-00 ELECT CHIP 10UF 20.00% 16V
R8206	1-216-049-91	RES-CHIP	1K	5%	1/10W	C507	1-124-779-00 ELECT CHIP 10UF 20.00% 16V
R8207	1-216-091-00	RES-CHIP	56K	5%	1/10W	C509	1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
		<CRYSTAL>				C510	1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
X8102	1-781-041-11	VIBRATOR, CRYSTAL				C511	1-163-038-91 CERAMIC CHIP 0.1UF 25V
						C512	1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
						C514	1-164-004-11 CERAMIC CHIP 0.1UF 10.00% 25V
						C515	1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V
						C516	1-164-004-11 CERAMIC CHIP 0.1UF 10.00% 25V

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REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
C517	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C624	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C518	1-126-204-11	ELECT CHIP	47UF	20.00% 16V	C625	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C519	1-163-038-91	CERAMIC CHIP	0.1UF	25V	C626	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C520	1-163-038-91	CERAMIC CHIP	0.1UF	25V	C627	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C521	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C628	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C522	1-163-038-91	CERAMIC CHIP	0.1UF	25V	C629	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C523	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C630	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C524	1-124-779-00	ELECT CHIP	10UF	20.00% 16V	C631	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C525	1-126-394-11	ELECT CHIP	10UF	20.00% 16V	C632	1-126-206-11	ELECT CHIP	100UF	20.00% 6.3V
C526	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C633	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C527	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V	C634	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C528	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C635	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C530	1-216-295-91	SHORT	0		C636	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C532	1-216-295-91	SHORT	0		C637	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C534	1-216-295-91	SHORT	0		C638	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C535	1-163-038-91	CERAMIC CHIP	0.1UF	25V	C639	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C536	1-163-038-91	CERAMIC CHIP	0.1UF	25V	C640	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C537	1-163-038-91	CERAMIC CHIP	0.1UF	25V	C642	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C538	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C643	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C539	1-126-204-11	ELECT CHIP	47UF	20.00% 16V	C644	1-126-398-11	ELECT CHIP	4.7UF	20.00% 35V
C540	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C645	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C542	1-126-204-11	ELECT CHIP	47UF	20.00% 16V	C801	1-124-779-00	ELECT CHIP	10UF	20.00% 16V
C543	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C802	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C545	1-126-396-11	ELECT CHIP	47UF	20.00% 16V	C803	1-124-779-00	ELECT CHIP	10UF	20.00% 16V
C546	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C804	1-124-779-00	ELECT CHIP	10UF	20.00% 16V
C548	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C806	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C549	1-126-204-11	ELECT CHIP	47UF	20.00% 16V	C807	1-124-779-00	ELECT CHIP	10UF	20.00% 16V
C550	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C808	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C551	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C809	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C554	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C810	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C555	1-163-038-91	CERAMIC CHIP	0.1UF	25V	C811	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C556	1-126-392-11	ELECT CHIP	100UF	20.00% 6.3V	C812	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C557	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C813	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C559	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C814	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C560	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C815	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C601	1-126-394-11	ELECT CHIP	10UF	20.00% 16V	C816	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C602	1-126-394-11	ELECT CHIP	10UF	20.00% 16V	C817	1-163-229-11	CERAMIC CHIP	12PF	5.00% 50V
C603	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C818	1-163-229-11	CERAMIC CHIP	12PF	5.00% 50V
C604	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C819	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C605	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C820	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C606	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C821	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C607	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C822	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C608	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C823	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C609	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C824	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C610	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C825	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C611	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C826	1-164-489-11	CERAMIC CHIP	0.22UF	10.00% 16V
C612	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C827	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C613	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C829	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C614	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C834	1-163-038-91	CERAMIC CHIP	0.1UF	25V
C615	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C835	1-163-038-91	CERAMIC CHIP	0.1UF	25V
C616	1-126-396-11	ELECT CHIP	47UF	20.00% 16V	C837	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C617	1-163-038-91	CERAMIC CHIP	0.1UF	25V	C839	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C618	1-163-038-91	CERAMIC CHIP	0.1UF	25V	C840	1-126-206-11	ELECT CHIP	100UF	20.00% 6.3V
C619	1-163-038-91	CERAMIC CHIP	0.1UF	25V	C841	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C620	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C842	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C621	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C843	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C622	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C844	1-163-038-91	CERAMIC CHIP	0.1UF	25V
C623	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V					

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

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C848	1-163-017-00	CERAMIC CHIP	0.0047UF 10.00% 50V	FL512	1-234-177-21	FILTER, CHIP EMI	
C849	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	FL601	1-234-177-21	FILTER, CHIP EMI	
C850	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	FL602	1-234-177-21	FILTER, CHIP EMI	
C851	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	FL603	1-234-177-21	FILTER, CHIP EMI	
C852	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	FL606	1-239-560-11	FILTER, CHIP EMI	
C853	1-164-182-11	CERAMIC CHIP	0.0033UF 10.00% 50V	FL801	1-234-177-21	FILTER, CHIP EMI	
C854	1-163-038-91	CERAMIC CHIP	0.1UF 25V	FL802	1-234-177-21	FILTER, CHIP EMI	
C901	1-163-038-91	CERAMIC CHIP	0.1UF 25V	FL803	1-234-177-21	FILTER, CHIP EMI	
C902	1-163-038-91	CERAMIC CHIP	0.1UF 25V	FL804	1-234-177-21	FILTER, CHIP EMI	
C903	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	FL805	1-234-177-21	FILTER, CHIP EMI	
C904	1-124-779-00	ELECT CHIP	10UF 20.00% 16V	FL806	1-234-177-21	FILTER, CHIP EMI	
C905	1-109-982-11	CERAMIC CHIP	1UF 10.00% 10V	FL807	1-234-177-21	FILTER, CHIP EMI	
C906	1-124-779-00	ELECT CHIP	10UF 20.00% 16V	FL808	1-234-177-21	FILTER, CHIP EMI	
C907	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	FL810	1-234-177-21	FILTER, CHIP EMI	
C908	1-163-031-11	CERAMIC CHIP	0.01UF 50V	FL901	1-233-878-11	FILTER, LOW PASS	
C909	1-126-396-11	ELECT CHIP	47UF 20.00% 16V	FL902	1-233-876-11	FILTER, LOW PASS	
C910	1-163-009-11	CERAMIC CHIP	0.001UF 10.00% 50V	FL903	1-233-876-11	FILTER, LOW PASS	
C913	1-163-031-11	CERAMIC CHIP	0.01UF 50V	FL904	1-234-177-21	FILTER, CHIP EMI	
C914	1-126-394-11	ELECT CHIP	10UF 20.00% 16V	FL905	1-234-177-21	FILTER, CHIP EMI	
C950	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	FL906	1-234-177-21	FILTER, CHIP EMI	
C954	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V	FL907	1-234-177-21	FILTER, CHIP EMI	
		<CONNECTOR>				<IC>	
CN502	1-695-302-11	CONNECTOR, BOARD TO BOARD	50P	IC302	8-752-388-98	IC CXD2303AQ	
		<DIODE>		IC303	8-752-088-26	IC CXA3266Q	
D301	8-719-041-97	DIODE MA113-(TX)		IC309	8-759-640-16	IC TC7SET04F(TE85R)	
D302	8-719-041-97	DIODE MA113-(TX)		IC311	8-759-708-05	IC TA78L005AP-TPE6	
D501	8-719-422-12	DIODE UDZ-TE-17-3.9B		IC501	8-759-447-90	IC TLC5733AIPM	
D601	8-719-073-01	DIODE MA111-TX		IC504	8-759-430-32	IC TLC2933IPWR	
		<FERRITE BEAD>		IC505	8-759-640-16	IC TC7SET04F(TE85R)	
FB501	1-414-813-11	FERRITE	0UH	IC506	8-759-640-16	IC TC7SET04F(TE85R)	
FB502	1-414-813-11	FERRITE	0UH	IC601	8-752-398-47	IC CXD2090Q	
FB503	1-414-813-11	FERRITE	0UH	IC602	8-759-567-37	IC MB81F161622B-80FN	
FB504	1-414-813-11	FERRITE	0UH	IC603 Δ	8-759-268-00	IC TLC2932IPW-E20	
FB601	1-414-553-11	FERRITE	0UH	IC604	8-752-072-94	IC CXA1875AM-T4	
FB801	1-414-553-11	FERRITE	0UH	IC801	8-759-592-40	IC CXD9509Q	
FB802	1-414-553-11	FERRITE	0UH	IC802	8-759-595-53	IC MB81F643242B-10FN	
		<FILTER>		IC803	8-759-460-29	IC PST9120NL	
FL304	1-234-177-21	FILTER, CHIP EMI		IC901	8-752-367-59	IC CXD2309Q	
FL305	1-234-177-21	FILTER, CHIP EMI		IC902	8-759-648-21	IC MB94918-APF-G-121-BND	
FL306	1-239-558-11	FILTER, CHIP EMI		IC903	8-759-527-75	IC M24C04-MN6T	
FL501	1-233-877-11	FILTER, LOW PASS		IC904	8-759-349-11	IC PST9145NL	
FL502	1-233-504-21	FILTER, LOW PASS				<COIL>	
FL503	1-233-504-21	FILTER, LOW PASS		L302	1-412-029-11	INDUCTOR CHIP 10UH	
FL504	1-234-177-21	FILTER, CHIP EMI		L303	1-412-029-11	INDUCTOR CHIP 10UH	
FL505	1-234-177-21	FILTER, CHIP EMI		L501	1-412-026-11	INDUCTOR CHIP 1UH	
FL506	1-234-177-21	FILTER, CHIP EMI		L502	1-412-026-11	INDUCTOR CHIP 1UH	
FL508	1-234-177-21	FILTER, CHIP EMI		L503	1-412-026-11	INDUCTOR CHIP 1UH	
FL509	1-234-177-21	FILTER, CHIP EMI		L504	1-412-026-11	INDUCTOR CHIP 1UH	
FL510	1-234-177-21	FILTER, CHIP EMI		L505	1-412-029-11	INDUCTOR CHIP 10UH	
FL511	1-234-177-21	FILTER, CHIP EMI		L506	1-412-026-11	INDUCTOR CHIP 1UH	
				L508	1-412-029-11	INDUCTOR CHIP 10UH	
				L509	1-412-029-11	INDUCTOR CHIP 10UH	
				L511	1-412-026-11	INDUCTOR CHIP 1UH	
				L512	1-412-026-11	INDUCTOR CHIP 1UH	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L604	1-412-029-11	INDUCTOR CHIP 10UH		R338	1-216-295-91	SHORT	0
L605	1-412-029-11	INDUCTOR CHIP 10UH		R339	1-216-295-91	SHORT	0
		<TRANSISTOR>		R343	1-216-295-91	SHORT	0
Q501	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R347	1-216-295-91	SHORT	0
Q502	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R350	1-216-295-91	SHORT	0
Q503	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R501	1-216-025-91	RES-CHIP	100 5% 1/10W
Q510	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R502	1-216-025-91	RES-CHIP	100 5% 1/10W
Q511	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R503	1-216-295-91	SHORT	0
Q512	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R504	1-216-295-91	SHORT	0
Q513	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R505	1-216-295-91	SHORT	0
Q514	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R506	1-216-009-91	RES-CHIP	22 5% 1/10W
Q515	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R507	1-216-009-91	RES-CHIP	22 5% 1/10W
Q516	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R508	1-216-025-91	RES-CHIP	100 5% 1/10W
Q517	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R509	1-216-025-91	RES-CHIP	100 5% 1/10W
Q518	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R510	1-216-043-91	RES-CHIP	560 5% 1/10W
Q519	1-801-806-11	TRANSISTOR DTC144EKA-T146		R511	1-216-043-91	RES-CHIP	560 5% 1/10W
Q520	1-801-806-11	TRANSISTOR DTC144EKA-T146		R512	1-216-043-91	RES-CHIP	560 5% 1/10W
Q521	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R513	1-216-043-91	RES-CHIP	560 5% 1/10W
Q522	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R514	1-216-043-91	RES-CHIP	560 5% 1/10W
Q523	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R515	1-216-043-91	RES-CHIP	560 5% 1/10W
Q524	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R516	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q601	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R517	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q602	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R518	1-216-295-91	SHORT	0
Q901	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R520	1-208-776-11	METAL CHIP	560 0.5% 1/10W
Q902	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R521	1-216-295-91	SHORT	0
Q903	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R523	1-208-776-11	METAL CHIP	560 0.5% 1/10W
Q904	8-729-028-28	TRANSISTOR 2SK2036(TE85L)		R524	1-216-295-91	SHORT	0
Q905	8-729-028-28	TRANSISTOR 2SK2036(TE85L)		R526	1-208-776-11	METAL CHIP	560 0.5% 1/10W
Q906	1-801-806-11	TRANSISTOR DTC144EKA-T146		R528	1-216-037-00	RES-CHIP	330 5% 1/10W
Q907	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R529	1-208-800-11	METAL CHIP	5.6K 0.5% 1/10W
Q908	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R530	1-208-800-11	METAL CHIP	5.6K 0.5% 1/10W
Q909	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R		R531	1-216-031-00	RES-CHIP	180 5% 1/10W
		<RESISTOR>		R532	1-208-800-11	METAL CHIP	5.6K 0.5% 1/10W
R302	1-216-013-00	RES-CHIP	33 5% 1/10W	R533	1-216-031-00	RES-CHIP	180 5% 1/10W
R303	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W	R536	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R305	1-216-049-91	RES-CHIP	1K 5% 1/10W	R537	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W
R306	1-208-789-11	METAL CHIP	2K 0.5% 1/10W	R540	1-216-049-91	RES-CHIP	1K 5% 1/10W
R309	1-216-009-91	RES-CHIP	22 5% 1/10W	R548	1-208-750-11	METAL CHIP	47 0.5% 1/10W
R310	1-216-009-91	RES-CHIP	22 5% 1/10W	R549	1-208-750-11	METAL CHIP	47 0.5% 1/10W
R311	1-216-009-91	RES-CHIP	22 5% 1/10W	R550	1-208-756-11	METAL CHIP	82 0.5% 1/10W
R313	1-216-009-91	RES-CHIP	22 5% 1/10W	R551	1-208-756-11	METAL CHIP	82 0.5% 1/10W
R316	1-216-009-91	RES-CHIP	22 5% 1/10W	R552	1-208-750-11	METAL CHIP	47 0.5% 1/10W
R318	1-216-009-91	RES-CHIP	22 5% 1/10W	R553	1-216-295-91	SHORT	0
R319	1-216-049-91	RES-CHIP	1K 5% 1/10W	R554	1-208-750-11	METAL CHIP	47 0.5% 1/10W
R321	1-216-009-91	RES-CHIP	22 5% 1/10W	R555	1-216-077-91	RES-CHIP	15K 5% 1/10W
R323	1-216-009-91	RES-CHIP	22 5% 1/10W	R557	1-216-049-91	RES-CHIP	1K 5% 1/10W
R324	1-216-009-91	RES-CHIP	22 5% 1/10W	R558	1-216-025-91	RES-CHIP	100 5% 1/10W
R325	1-216-073-00	RES-CHIP	10K 5% 1/10W	R559	1-216-077-91	RES-CHIP	15K 5% 1/10W
R328	1-216-025-91	RES-CHIP	100 5% 1/10W	R560	1-208-750-11	METAL CHIP	47 0.5% 1/10W
R333	1-216-295-91	SHORT	0	R561	1-216-043-91	RES-CHIP	560 5% 1/10W
R335	1-216-013-00	RES-CHIP	33 5% 1/10W	R562	1-216-043-91	RES-CHIP	560 5% 1/10W
R336	1-216-013-00	RES-CHIP	33 5% 1/10W	R563	1-216-043-91	RES-CHIP	560 5% 1/10W
R337	1-216-097-91	RES-CHIP	100K 5% 1/10W	R571	1-216-295-91	SHORT	0
				R572	1-208-750-11	METAL CHIP	47 0.5% 1/10W
				R573	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
				R574	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
				R575	1-208-756-11	METAL CHIP	82 0.5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION		REMARK		REF. NO.	PART NO.	DESCRIPTION		REMARK	
R576	1-208-756-11	METAL CHIP	82	0.5%	1/10W	R661	1-216-025-91	RES-CHIP	100	5%	1/10W
R577	1-208-750-11	METAL CHIP	47	0.5%	1/10W	R664	1-216-009-91	RES-CHIP	22	5%	1/10W
R578	1-208-750-11	METAL CHIP	47	0.5%	1/10W	R665	1-216-035-00	RES-CHIP	270	5%	1/10W
R579	1-216-077-91	RES-CHIP	15K	5%	1/10W	R666	1-208-777-11	METAL CHIP	620	0.5%	1/10W
R580	1-216-295-91	SHORT	0			R667	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R582	1-216-041-00	RES-CHIP	470	5%	1/10W	R668	1-216-009-91	RES-CHIP	22	5%	1/10W
R584	1-216-041-00	RES-CHIP	470	5%	1/10W	R670	1-216-295-91	SHORT	0		
R586	1-216-049-91	RES-CHIP	1K	5%	1/10W	R671	1-216-073-00	RES-CHIP	10K	5%	1/10W
R587	1-216-049-91	RES-CHIP	1K	5%	1/10W	R672	1-216-073-00	RES-CHIP	10K	5%	1/10W
R589	1-216-049-91	RES-CHIP	1K	5%	1/10W	R673	1-216-073-00	RES-CHIP	10K	5%	1/10W
R590	1-216-049-91	RES-CHIP	1K	5%	1/10W	R674	1-216-073-00	RES-CHIP	10K	5%	1/10W
R591	1-216-049-91	RES-CHIP	1K	5%	1/10W	R675	1-216-073-00	RES-CHIP	10K	5%	1/10W
R592	1-216-049-91	RES-CHIP	1K	5%	1/10W	R676	1-216-073-00	RES-CHIP	10K	5%	1/10W
R594	1-216-041-00	RES-CHIP	470	5%	1/10W	R677	1-216-073-00	RES-CHIP	10K	5%	1/10W
R596	1-216-049-91	RES-CHIP	1K	5%	1/10W	R678	1-216-073-00	RES-CHIP	10K	5%	1/10W
R597	1-216-073-00	RES-CHIP	10K	5%	1/10W	R679	1-216-073-00	RES-CHIP	10K	5%	1/10W
R598	1-216-025-91	RES-CHIP	100	5%	1/10W	R680	1-216-073-00	RES-CHIP	10K	5%	1/10W
R600	1-216-066-00	RES-CHIP	5.1K	5%	1/10W	R681	1-216-073-00	RES-CHIP	10K	5%	1/10W
R601	1-216-073-00	RES-CHIP	10K	5%	1/10W	R682	1-216-073-00	RES-CHIP	10K	5%	1/10W
R602	1-216-073-00	RES-CHIP	10K	5%	1/10W	R683	1-216-073-00	RES-CHIP	10K	5%	1/10W
R603	1-216-073-00	RES-CHIP	10K	5%	1/10W	R684	1-216-073-00	RES-CHIP	10K	5%	1/10W
R604	1-216-033-00	RES-CHIP	220	5%	1/10W	R685	1-216-073-00	RES-CHIP	10K	5%	1/10W
R605	1-216-295-91	SHORT	0			R686	1-216-073-00	RES-CHIP	10K	5%	1/10W
R608	1-216-295-91	SHORT	0			R687	1-216-295-91	SHORT	0		
R609	1-216-073-00	RES-CHIP	10K	5%	1/10W	R688	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R610	1-216-033-00	RES-CHIP	220	5%	1/10W	R689	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R611	1-216-073-00	RES-CHIP	10K	5%	1/10W	R690	1-216-295-91	SHORT	0		
R612	1-216-073-00	RES-CHIP	10K	5%	1/10W	R691	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R613	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R692	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R615	1-216-089-91	RES-CHIP	47K	5%	1/10W	R693	1-216-009-91	RES-CHIP	22	5%	1/10W
R616	1-216-073-00	RES-CHIP	10K	5%	1/10W	R694	1-216-295-91	SHORT	0		
R617	1-216-295-91	SHORT	0			R695	1-216-047-91	RES-CHIP	820	5%	1/10W
R619	1-216-073-00	RES-CHIP	10K	5%	1/10W	R696	1-216-049-91	RES-CHIP	1K	5%	1/10W
R621	1-216-295-91	SHORT	0			R697	1-216-117-00	RES-CHIP	680K	5%	1/10W
R622	1-216-295-91	SHORT	0			R698	1-216-117-00	RES-CHIP	680K	5%	1/10W
R623	1-216-295-91	SHORT	0			R699	1-216-295-91	SHORT	0		
R624	1-216-295-91	SHORT	0			R801	1-216-009-91	RES-CHIP	22	5%	1/10W
R625	1-216-295-91	SHORT	0			R802	1-216-009-91	RES-CHIP	22	5%	1/10W
R626	1-216-073-00	RES-CHIP	10K	5%	1/10W	R804	1-216-073-00	RES-CHIP	10K	5%	1/10W
R628	1-216-295-91	SHORT	0			R806	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R629	1-216-073-00	RES-CHIP	10K	5%	1/10W	R807	1-208-768-11	METAL CHIP	270	0.5%	1/10W
R631	1-216-295-91	SHORT	0			R812	1-216-073-00	RES-CHIP	10K	5%	1/10W
R634	1-216-295-91	SHORT	0			R813	1-216-295-91	SHORT	0		
R635	1-216-295-91	SHORT	0			R814	1-216-073-00	RES-CHIP	10K	5%	1/10W
R638	1-216-295-91	SHORT	0			R815	1-216-073-00	RES-CHIP	10K	5%	1/10W
R639	1-216-017-91	RES-CHIP	47	5%	1/10W	R816	1-216-073-00	RES-CHIP	10K	5%	1/10W
R640	1-216-009-91	RES-CHIP	22	5%	1/10W	R817	1-211-962-11	METAL CHIP	27	0.5%	1/10W
R642	1-216-295-91	SHORT	0			R818	1-216-295-91	SHORT	0		
R643	1-216-295-91	SHORT	0			R820	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R645	1-216-295-91	SHORT	0			R822	1-216-295-91	SHORT	0		
R651	1-216-295-91	SHORT	0			R823	1-216-073-00	RES-CHIP	10K	5%	1/10W
R653	1-216-025-91	RES-CHIP	100	5%	1/10W	R824	1-216-073-00	RES-CHIP	10K	5%	1/10W
R654	1-216-033-00	RES-CHIP	220	5%	1/10W	R825	1-208-752-11	METAL CHIP	56	0.5%	1/10W
R655	1-216-295-91	SHORT	0			R826	1-208-772-11	METAL CHIP	390	0.5%	1/10W
R657	1-216-009-91	RES-CHIP	22	5%	1/10W	R827	1-216-607-11	METAL CHIP	15	0.5%	1/10W
R658	1-216-049-91	RES-CHIP	1K	5%	1/10W	R834	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R659	1-216-025-91	RES-CHIP	100	5%	1/10W	R835	1-208-754-11	METAL CHIP	68	0.5%	1/10W
R660	1-216-025-91	RES-CHIP	100	5%	1/10W	R836	1-211-960-11	METAL CHIP	22	0.5%	1/10W

B3

REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
R840	1-216-295-91	SHORT	0		R901	1-216-061-00	RES-CHIP	3.3K	5% 1/10W
R844	1-216-009-91	RES-CHIP	22	5% 1/10W	R902	1-208-790-11	METAL CHIP	2.2K	0.5% 1/10W
R845	1-216-009-91	RES-CHIP	22	5% 1/10W	R903	1-208-794-11	METAL CHIP	3.3K	0.5% 1/10W
R846	1-216-009-91	RES-CHIP	22	5% 1/10W	R904	1-208-766-11	METAL CHIP	220	0.5% 1/10W
R847	1-216-009-91	RES-CHIP	22	5% 1/10W	R905	1-208-766-11	METAL CHIP	220	0.5% 1/10W
R848	1-216-009-91	RES-CHIP	22	5% 1/10W	R906	1-208-766-11	METAL CHIP	220	0.5% 1/10W
R849	1-216-009-91	RES-CHIP	22	5% 1/10W	R907	1-208-766-11	METAL CHIP	220	0.5% 1/10W
R850	1-216-009-91	RES-CHIP	22	5% 1/10W	R908	1-208-766-11	METAL CHIP	220	0.5% 1/10W
R851	1-216-009-91	RES-CHIP	22	5% 1/10W	R909	1-208-766-11	METAL CHIP	220	0.5% 1/10W
R852	1-216-009-91	RES-CHIP	22	5% 1/10W	R910	1-216-049-91	RES-CHIP	1K	5% 1/10W
R853	1-216-009-91	RES-CHIP	22	5% 1/10W	R911	1-216-049-91	RES-CHIP	1K	5% 1/10W
R854	1-216-009-91	RES-CHIP	22	5% 1/10W	R912	1-216-049-91	RES-CHIP	1K	5% 1/10W
R855	1-216-009-91	RES-CHIP	22	5% 1/10W	R914	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R856	1-216-009-91	RES-CHIP	22	5% 1/10W	R916	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R857	1-216-009-91	RES-CHIP	22	5% 1/10W	R923	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R858	1-216-009-91	RES-CHIP	22	5% 1/10W	R926	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R859	1-216-009-91	RES-CHIP	22	5% 1/10W	R927	1-216-295-91	SHORT	0	
R860	1-216-009-91	RES-CHIP	22	5% 1/10W	R929	1-216-025-91	RES-CHIP	100	5% 1/10W
R861	1-216-009-91	RES-CHIP	22	5% 1/10W	R930	1-216-025-91	RES-CHIP	100	5% 1/10W
R862	1-216-009-91	RES-CHIP	22	5% 1/10W	R931	1-216-041-00	RES-CHIP	470	5% 1/10W
R863	1-216-009-91	RES-CHIP	22	5% 1/10W	R933	1-216-025-91	RES-CHIP	100	5% 1/10W
R864	1-216-009-91	RES-CHIP	22	5% 1/10W	R934	1-216-025-91	RES-CHIP	100	5% 1/10W
R865	1-216-009-91	RES-CHIP	22	5% 1/10W	R935	1-216-073-00	RES-CHIP	10K	5% 1/10W
R866	1-216-009-91	RES-CHIP	22	5% 1/10W	R936	1-216-041-00	RES-CHIP	470	5% 1/10W
R867	1-216-009-91	RES-CHIP	22	5% 1/10W	R937	1-216-025-91	RES-CHIP	100	5% 1/10W
R868	1-216-009-91	RES-CHIP	22	5% 1/10W	R938	1-216-025-91	RES-CHIP	100	5% 1/10W
R869	1-216-009-91	RES-CHIP	22	5% 1/10W	R939	1-216-295-91	SHORT	0	
R870	1-216-009-91	RES-CHIP	22	5% 1/10W	R940	1-216-295-91	SHORT	0	
R871	1-216-009-91	RES-CHIP	22	5% 1/10W	R941	1-216-295-91	SHORT	0	
R872	1-216-009-91	RES-CHIP	22	5% 1/10W	R942	1-216-037-00	RES-CHIP	330	5% 1/10W
R873	1-216-009-91	RES-CHIP	22	5% 1/10W	R943	1-216-033-00	RES-CHIP	220	5% 1/10W
R874	1-216-009-91	RES-CHIP	22	5% 1/10W	R944	1-216-295-91	SHORT	0	
R875	1-216-009-91	RES-CHIP	22	5% 1/10W	R945	1-216-295-91	SHORT	0	
R876	1-216-009-91	RES-CHIP	22	5% 1/10W	R951	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R877	1-216-009-91	RES-CHIP	22	5% 1/10W	R952	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R878	1-216-009-91	RES-CHIP	22	5% 1/10W	R953	1-216-295-91	SHORT	0	
R879	1-216-009-91	RES-CHIP	22	5% 1/10W	R954	1-216-295-91	SHORT	0	
R880	1-216-009-91	RES-CHIP	22	5% 1/10W	R955	1-216-295-91	SHORT	0	
R881	1-216-009-91	RES-CHIP	22	5% 1/10W	R956	1-216-089-91	RES-CHIP	47K	5% 1/10W
R882	1-216-009-91	RES-CHIP	22	5% 1/10W	R957	1-208-766-11	METAL CHIP	220	0.5% 1/10W
R883	1-216-009-91	RES-CHIP	22	5% 1/10W	R958	1-208-766-11	METAL CHIP	220	0.5% 1/10W
R884	1-216-009-91	RES-CHIP	22	5% 1/10W	R959	1-208-766-11	METAL CHIP	220	0.5% 1/10W
R885	1-216-009-91	RES-CHIP	22	5% 1/10W	R960	1-208-766-11	METAL CHIP	220	0.5% 1/10W
R886	1-216-009-91	RES-CHIP	22	5% 1/10W	R961	1-208-766-11	METAL CHIP	220	0.5% 1/10W
R887	1-216-009-91	RES-CHIP	22	5% 1/10W	R962	1-208-766-11	METAL CHIP	220	0.5% 1/10W
R888	1-216-009-91	RES-CHIP	22	5% 1/10W	R979	1-216-295-91	SHORT	0	
R889	1-216-009-91	RES-CHIP	22	5% 1/10W	R981	1-216-037-00	RES-CHIP	330	5% 1/10W
R890	1-216-009-91	RES-CHIP	22	5% 1/10W	R982	1-216-037-00	RES-CHIP	330	5% 1/10W
R891	1-216-009-91	RES-CHIP	22	5% 1/10W	R983	1-216-089-91	RES-CHIP	47K	5% 1/10W
R892	1-216-009-91	RES-CHIP	22	5% 1/10W	R984	1-216-061-00	RES-CHIP	3.3K	5% 1/10W
R893	1-216-009-91	RES-CHIP	22	5% 1/10W	R985	1-216-113-00	RES-CHIP	470K	5% 1/10W
R894	1-216-009-91	RES-CHIP	22	5% 1/10W	R986	1-216-061-00	RES-CHIP	3.3K	5% 1/10W
R895	1-216-009-91	RES-CHIP	22	5% 1/10W	R987	1-216-049-91	RES-CHIP	1K	5% 1/10W
R896	1-216-009-91	RES-CHIP	22	5% 1/10W	R988	1-216-033-00	RES-CHIP	220	5% 1/10W
R897	1-216-009-91	RES-CHIP	22	5% 1/10W	R989	1-216-081-00	RES-CHIP	22K	5% 1/10W
R898	1-216-009-91	RES-CHIP	22	5% 1/10W	R990	1-216-113-00	RES-CHIP	470K	5% 1/10W
R899	1-216-073-00	RES-CHIP	10K	5% 1/10W	R991	1-216-295-91	SHORT	0	

B3**BC4**

REF. NO.	PART NO.	DESCRIPTION	REMARK
R993	1-216-089-91	RES-CHIP 47K	5% 1/10W
R994	1-216-033-00	RES-CHIP 220	5% 1/10W
R995	1-216-033-00	RES-CHIP 220	5% 1/10W
R996	1-216-037-00	RES-CHIP 330	5% 1/10W
R997	1-216-037-00	RES-CHIP 330	5% 1/10W
R998	1-216-073-00	RES-CHIP 10K	5% 1/10W
R2801	1-208-760-11	METAL CHIP 120	0.5% 1/10W
R2802	1-208-754-11	METAL CHIP 68	0.5% 1/10W
R2803	1-216-603-11	METAL CHIP 10	0.5% 1/10W
R2804	1-208-758-11	METAL CHIP 100	0.5% 1/10W
R2805	1-208-754-11	METAL CHIP 68	0.5% 1/10W
R2806	1-211-960-11	METAL CHIP 22	0.5% 1/10W
R2809	1-216-295-91	SHORT	0
R2810	1-216-295-91	SHORT	0
R2813	1-216-295-91	SHORT	0
R2815	1-216-295-91	SHORT	0
R2817	1-216-295-91	SHORT	0
R2818	1-216-295-91	SHORT	0
R2820	1-216-295-91	SHORT	0
R2822	1-216-295-91	SHORT	0
RB001	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB002	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB003	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB004	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB005	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB006	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB007	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB008	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB009	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB010	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB011	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB012	1-239-414-11	NETWORK RESISTOR (CHIP) 150	
RB013	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB014	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB015	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB016	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB017	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB018	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB019	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB020	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB021	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB022	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB023	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB024	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB025	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB026	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB027	1-239-409-11	NETWORK RESISTOR (CHIP) 47	
RB301	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB302	1-239-621-11	NETWORK RESISTOR (CHIP) 22	
RB701	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB702	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB703	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB704	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB705	1-239-711-91	NETWORK RESISTOR (CHIP) 0	
RB706	1-239-711-91	NETWORK RESISTOR (CHIP) 0	

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<CRYSTAL>	
X801	1-781-649-21	OSCILLATOR, CRYSTAL	
X802	1-781-650-21	VIBRATOR, CRYSTAL	
X901	1-760-014-11	VIBRATOR, CERAMIC	

	* A-1136-069-A	BC4 BOARD COMPLETE	*****
		<CAPACITOR>	
C2003	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C2005	1-163-131-00	CERAMIC CHIP 390PF	5.00% 50V
C2006	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2010	1-163-102-00	CERAMIC CHIP 24PF	5.00% 50V
C2011	1-163-102-00	CERAMIC CHIP 24PF	5.00% 50V
C2015	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2016	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2017	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2018	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2021	1-163-038-91	CERAMIC CHIP 0.1UF	25V
C2024	1-216-295-91	SHORT	0
C2029	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2030	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2031	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2032	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2033	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2034	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2035	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2036	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2037	1-104-664-11	ELECT 47UF	20.00% 16V
C2038	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2039	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2040	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2041	1-126-924-11	ELECT 330UF	20.00% 6.3V
C2042	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C2044	1-104-664-11	ELECT 47UF	20.00% 16V
C2045	1-163-106-00	CERAMIC CHIP 36PF	5.00% 50V
C2046	1-126-964-11	ELECT 10UF	20.00% 50V
C2047	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C2048	1-126-964-11	ELECT 10UF	20.00% 50V
C2049	1-126-960-11	ELECT 1UF	20.00% 50V
C2050	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V
C2051	1-126-964-11	ELECT 10UF	20.00% 50V
C2052	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V
C2053	1-126-960-11	ELECT 1UF	20.00% 50V
C2054	1-104-664-11	ELECT 47UF	20.00% 16V
C2055	1-104-664-11	ELECT 47UF	20.00% 16V
C2056	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V
C2057	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C2058	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C2059	1-104-664-11	ELECT 47UF	20.00% 16V
C2060	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C2061	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C2062	1-104-664-11	ELECT 47UF	20.00% 16V
C2063	1-165-319-11	CERAMIC CHIP 0.1UF	50V

BC4

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REF. NO.	PART NO.	DESCRIPTION	REMARK
R2057	1-216-049-91	RES-CHIP 1K	5% 1/10W
R2058	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
R2059	1-216-049-91	RES-CHIP 1K	5% 1/10W
R2060	1-216-025-91	RES-CHIP 100	5% 1/10W
R2061	1-216-043-91	RES-CHIP 560	5% 1/10W
R2062	1-216-105-91	RES-CHIP 220K	5% 1/10W
R2063	1-216-089-91	RES-CHIP 47K	5% 1/10W
R2064	1-216-049-91	RES-CHIP 1K	5% 1/10W
R2066	1-216-033-00	RES-CHIP 220	5% 1/10W
R2067	1-216-043-91	RES-CHIP 560	5% 1/10W
R2069	1-216-645-11	METAL CHIP 560	0.5% 1/10W
R2070	1-216-641-11	METAL CHIP 390	0.5% 1/10W
R2071	1-216-067-00	RES-CHIP 5.6K	5% 1/10W
R2072	1-216-043-91	RES-CHIP 560	5% 1/10W
R2073	1-216-049-91	RES-CHIP 1K	5% 1/10W
R2074	1-216-025-91	RES-CHIP 100	5% 1/10W
R2075	1-216-295-91	SHORT 0	
R2076	1-216-025-91	RES-CHIP 100	5% 1/10W
R2077	1-216-025-91	RES-CHIP 100	5% 1/10W
R2078	1-216-295-91	SHORT 0	
R2092	1-216-055-00	RES-CHIP 1.8K	5% 1/10W
R2093	1-216-055-00	RES-CHIP 1.8K	5% 1/10W
R2104	1-216-295-91	SHORT 0	
R2105	1-216-295-91	SHORT 0	
R2106	1-216-295-91	SHORT 0	
R2107	1-216-295-91	SHORT 0	
R2108	1-216-049-91	RES-CHIP 1K	5% 1/10W
R2110	1-216-295-91	SHORT 0	
R2112	1-216-295-91	SHORT 0	
R2113	1-216-017-91	RES-CHIP 47	5% 1/10W
R2115	1-216-049-91	RES-CHIP 1K	5% 1/10W
R2116	1-216-295-91	SHORT 0	
R2117	1-216-295-91	SHORT 0	
R2118	1-216-296-91	SHORT 0	
R2119	1-216-296-91	SHORT 0	
R2200	1-216-296-91	SHORT 0	
		<VARIABLE RESISTOR>	
RV2001	1-223-271-21	RES, ADJ, CERMET 220	
		<CRYSTAL>	
X2001	1-767-606-11	VIBRATOR, CRYSTAL	

	* A-1332-034-A	C BOARD MOUNTED (Thailand)	
	* A-1332-032-A	C BOARD MOUNTED (Malaysia)	
	* A-1332-005-A	C BOARD MOUNTED (Taiwan)	

	4-382-854-11	SCREW (M3X10), P, SW (+)	

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<CAPACITOR>	
C9002	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C9003	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C9004	1-162-114-00	CERAMIC 0.0047UF	2KV
C9005	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C9006	1-163-091-00	CERAMIC CHIP 8PF	0.25PF 50V
C9007	1-163-091-00	CERAMIC CHIP 8PF	0.25PF 50V
C9008	1-163-091-00	CERAMIC CHIP 8PF	0.25PF 50V
C9009	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C9010	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C9011	1-136-207-11	MYLAR 0.047UF	10.00% 250V
C9012	1-136-207-11	MYLAR 0.047UF	10.00% 250V
C9014	1-136-207-11	MYLAR 0.047UF	10.00% 250V
C9015	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C9018	1-107-961-91	ELECT 10UF	20.00% 250V
C9019	1-163-035-00	CERAMIC CHIP 0.047UF	50V
C9020	1-107-961-91	ELECT 10UF	20.00% 250V
C9021	1-107-961-91	ELECT 10UF	20.00% 250V
C9022	1-101-004-00	CERAMIC 0.01UF	50V
C9023	1-101-004-00	CERAMIC 0.01UF	50V
C9024	1-163-035-00	CERAMIC CHIP 0.047UF	50V
C9025	1-104-653-11	ELECT 220UF	20.00% 16V
C9026	1-163-035-00	CERAMIC CHIP 0.047UF	50V
C9027	1-101-004-00	CERAMIC 0.01UF	50V
C9028	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C9029	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C9030	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C9031	1-162-114-00	CERAMIC 0.0047UF	2KV
C9032	1-162-116-00	CERAMIC 680PF	10.00% 2KV
C9033	1-107-662-11	ELECT 22UF	20.00% 250V
C9035	1-162-114-00	CERAMIC 0.0047UF	2KV
C9042	1-126-940-11	ELECT 330UF	20.00% 25V
		<CONNECTOR>	
CN9001*	1-564-512-11	PLUG, CONNECTOR 9P	
CN9002	1-691-765-11	PLUG (MICRO CONNECTOR) 3P	
CN9003	1-695-915-11	TAB (CONTACT)	
CN9004	1-695-915-11	TAB (CONTACT)	
CN9005*	1-564-506-11	PLUG, CONNECTOR 3P	
CN9007	1-785-879-11	CONNECTOR, ONE TOUCH	
		<DIODE>	
D9002	8-719-400-75	DIODE MA3091-TX	
D9005	8-719-073-01	DIODE MA111-TX	
D9006	8-719-051-85	DIODE HSS83TD	
D9007	8-719-051-85	DIODE HSS83TD	
D9008	8-719-051-85	DIODE HSS83TD	
D9009	8-719-908-03	DIODE GP08DPKG23	
D9010	8-719-110-17	DIODE RD10ES-T1B	
		<IC>	
IC9001	8-759-360-83	IC TDA6111Q/N4	
IC9002	8-759-360-83	IC TDA6111Q/N4	
IC9003	8-759-360-83	IC TDA6111Q/N4	

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REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
C6628	1-104-330-91	CERAMIC	470PF	10.00% 1KV	C6817	1-126-967-11	ELECT	47UF	20.00% 50V
C6630	1-107-680-91	ELECT	22UF	20.00% 450V	C6818	1-126-960-11	ELECT	1UF	20.00% 50V
C6631	1-126-964-11	ELECT	10UF	20.00% 50V	C6819	1-126-960-11	ELECT	1UF	20.00% 50V
C6632	1-126-963-11	ELECT	4.7UF	20.00% 50V	C6820	1-102-114-00	CERAMIC	470PF	10.00% 50V
C6633	1-126-967-11	ELECT	47UF	20.00% 50V	C6821	1-106-383-00	MYLAR	0.047UF	10.00% 200V
C6634	1-126-968-11	ELECT	100UF	20.00% 50V	C6822	1-102-114-00	CERAMIC	470PF	10.00% 50V
C6635	1-102-973-00	CERAMIC	100PF	5.00% 50V	C6823	1-106-383-00	MYLAR	0.047UF	10.00% 200V
C6637	1-109-879-11	CERAMIC	22PF	5.00% 2KV	C6826	1-102-030-00	CERAMIC	330PF	10.00% 500V
C6638	1-126-964-11	ELECT	10UF	20.00% 50V	C6827	1-102-030-00	CERAMIC	330PF	10.00% 500V
C6639	1-163-275-11	CERAMIC CHIP	0.001UF	5.00% 50V	C6828	1-107-364-11	MYLAR	0.01UF	10.00% 200V
C6640	1-104-330-91	CERAMIC	470PF	10.00% 1KV	C6829	1-162-115-00	CERAMIC	330PF	10.00% 2KV
C6641	1-104-341-11	MYLAR	0.1UF	10.00% 250V	C6830	1-117-619-11	FILM	1000PF	3.00% 1.2KV
C6642	1-126-964-11	ELECT	10UF	20.00% 50V	C6831	1-117-838-21	FILM	8200PF	3.00% 1.5KV
C6643	1-163-275-11	CERAMIC CHIP	0.001UF	5.00% 50V	C6832	1-117-842-21	FILM	12000PF	3.00% 1.5KV
C6648	1-126-941-11	ELECT	470UF	20.00% 25V	C6833	1-136-287-11	FILM	0.0047UF	5.00% 100V
C6649	1-104-665-11	ELECT	100UF	20.00% 25V	C6834	1-125-893-11	FILM	680PF	3.00% 1.5KV
C6650	1-162-115-00	CERAMIC	330PF	10.00% 1KV	C6835	1-125-893-11	FILM	680PF	3.00% 1.5KV
C6651	1-162-115-00	CERAMIC	330PF	10.00% 1KV	C6836	1-137-150-11	FILM	0.01UF	5.00% 100V
C6652	1-110-626-11	ELECT	330UF	20.00% 160V	C6837	1-125-893-11	FILM	680PF	3.00% 1.5KV
C6653	1-137-368-11	MYLAR	0.0047UF	5.00% 50V	C6838	1-125-893-11	FILM	680PF	3.00% 1.5KV
C6654	1-126-936-11	ELECT	3300UF	20.00% 16V	C6839	1-126-933-11	ELECT	100UF	20.00% 16V
C6655	1-126-942-61	ELECT	1000UF	20.00% 25V	C6840	1-126-933-11	ELECT	100UF	20.00% 16V
C6656	1-136-165-00	MYLAR	0.1UF	5.00% 50V	C6841	1-117-660-81	FILM	0.12UF	5.00% 250V
C6658	1-126-944-11	ELECT	3300UF	20.00% 25V	C6842	1-117-673-11	FILM	1.5UF	5.00% 250V
C6659	1-126-944-11	ELECT	3300UF	20.00% 25V	C6843	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C6660	1-126-960-11	ELECT	1UF	20.00% 50V	C6844	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C6661	1-104-664-11	ELECT	47UF	20.00% 16V	C6845	1-117-664-11	FILM	0.27UF	5.00% 250V
C6662	1-104-664-11	ELECT	47UF	20.00% 16V	C6846	1-115-514-11	FILM	0.22UF	5.00% 250V
C6663	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C6847	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C6664	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C6848	1-113-979-51	FILM	0.047UF	5% 250V
C6665	1-126-964-11	ELECT	10UF	20.00% 50V	C6849	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C6666	1-137-370-11	MYLAR	0.01UF	5.00% 50V	C6850	1-115-339-11	CERAMIC CHIP	0.1UF	10.00% 50V
C6668	1-104-664-11	ELECT	47UF	20.00% 25V	C6851	1-107-639-11	ELECT	47UF	20.00% 160V
C6669	1-162-115-00	CERAMIC	330PF	10.00% 1KV	C6853	1-102-228-00	CERAMIC	470PF	10.00% 500V
C6670	1-162-115-00	CERAMIC	330PF	10.00% 1KV	C6854	1-126-941-11	ELECT	470UF	20.00% 25V
C6671	1-129-718-00	FILM	0.022UF	5.00% 630V	C6855	1-123-024-21	ELECT	33UF	160V
C6672	1-104-331-11	CERAMIC	0.0022UF	10.00% 1KV	C6856	1-126-971-11	ELECT	470UF	20.00% 50V
C6673	1-104-331-11	CERAMIC	0.0022UF	10.00% 1KV	C6857	1-102-228-00	CERAMIC	470PF	10.00% 500V
C6674	1-128-527-11	ELECT	330UF	20.00% 25V	C6858	1-102-228-00	CERAMIC	470PF	10.00% 500V
C6677	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V	C6859	1-162-129-00	CERAMIC	150PF	10.00% 2KV
C6679	1-107-823-11	CERAMIC CHIP	0.47UF	10.00% 16V	C6860	1-162-129-00	CERAMIC	150PF	10.00% 2KV
C6680	1-136-157-00	MYLAR	0.022UF	5.00% 50V	C6862	1-130-202-00	FILM	0.022UF	5.00% 200V
C6800	1-126-964-11	ELECT	10UF	20.00% 50V	C6863	1-107-906-11	ELECT	10UF	20.00% 50V
C6801	1-126-960-11	ELECT	1UF	20.00% 50V	C6864	1-129-898-00	FILM	0.0022UF	5.00% 630V
C6802	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C6865	1-130-202-00	FILM	0.022UF	5.00% 400V
C6803	1-102-129-00	CERAMIC	0.01UF	10.00% 50V	C6866	1-102-030-00	CERAMIC	330PF	10.00% 500V
C6804	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C6867	1-130-785-11	MYLAR	0.47UF	10.00% 100V
C6805	1-111-087-11	ELECT	330UF	20.00% 25V	C6868	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C6806	1-107-933-11	ELECT	100UF	20.00% 100V	C6869	1-128-526-11	ELECT	100UF	20.00% 16V
C6808	1-106-228-00	MYLAR	0.22UF	10.00% 100V	C6870	1-128-528-11	ELECT	470UF	20.00% 25V
C6809	1-102-074-00	CERAMIC	0.001UF	10.00% 50V	C6871	1-163-133-00	CERAMIC CHIP	470PF	5.00% 50V
C6810	1-106-220-00	MYLAR	0.1UF	10.00% 100V	C6872	1-163-275-11	CERAMIC CHIP	0.001UF	5.00% 50V
C6811	1-111-087-11	ELECT	330UF	20.00% 25V	C6874	1-136-165-00	MYLAR	0.1UF	5.00% 50V
C6812	1-130-785-11	MYLAR	0.47UF	10.00% 100V	C6875	1-104-664-11	ELECT	47UF	20.00% 16V
C6813	1-163-009-11	CERAMIC CHIP	0.001UF	10.00% 50V	C6876	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V
C6814	1-115-565-11	CERAMIC CHIP	2.2UF	10.00% 10V	C6877	1-126-964-11	ELECT	10UF	20.00% 50V
C6815	1-163-009-11	CERAMIC CHIP	0.001UF	10.00% 50V	C6878	1-126-320-11	ELECT	10UF	20.00% 16V
C6816	1-136-577-11	FILM	0.068UF	5.00% 400V	C6879	1-107-960-11	ELECT	4.7UF	20.00% 160V

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C6882	1-104-574-11	CERAMIC	0.0047UF 10.00% 2KV	D6628	8-719-063-73	DIODE D1NL20U-TR	
C6883	1-126-964-11	ELECT	10UF 20.00% 50V	D6631	8-719-050-18	DIODE D4SBL20U	
C6884	1-115-565-11	CERAMIC CHIP	2.2UF 10.00% 10V	D6632	8-719-073-01	DIODE MA111-TX	
		<CONNECTOR>		D6633	8-719-510-12	DIODE D10SC4M-F	
CN6602*	1-508-786-00	PIN, CONNECTOR (5MM PITCH)	2P	D6634	8-719-060-88	DIODE D4SBS6	
CN6603*	1-573-963-11	PIN, CONNECTOR (PC BOARD)	3P	D6635	8-719-110-47	DIODE RD18ES-T1B	
CN6604*	1-691-291-11	PIN, CONNECTOR (PC BOARD)	5P	D6636	8-719-911-19	DIODE 1SS119-25TD	
CN6605*	1-564-513-11	PLUG, CONNECTOR	10P	D6639	8-719-063-73	DIODE D1NL20U-TR	
CN6606*	1-564-510-11	PLUG, CONNECTOR	7P	D6640	8-719-110-72	DIODE RD30ES-T1B	
CN6608*	1-564-506-11	PLUG, CONNECTOR	3P	D6641	8-719-109-96	DIODE RD6.8ES-T1B	
CN6609*	1-508-784-21	PIN, CONNECTOR (5MM PITCH)	1P	D6642	8-719-911-19	DIODE 1SS119-25TD	
CN6610*	1-508-784-21	PIN, CONNECTOR (5MM PITCH)	1P	D6643	8-719-979-64	DIODE UF4005PKG23	
CN6611*	1-508-784-21	PIN, CONNECTOR (5MM PITCH)	1P	D6644	8-719-052-92	DIODE D10SBS4F	
CN6612*	1-508-784-21	PIN, CONNECTOR (5MM PITCH)	1P	D6648	8-719-110-30	DIODE RD12ES-T1B	
CN6613*	1-508-784-21	PIN, CONNECTOR (5MM PITCH)	1P	D6649	8-719-073-01	DIODE MA111-TX	
CN6614*	1-508-784-21	PIN, CONNECTOR (5MM PITCH)	1P	D6650	8-719-911-19	DIODE 1SS119-25TD	
CN6615*	1-508-784-21	PIN, CONNECTOR (5MM PITCH)	1P	D6651	8-719-977-95	DIODE RD5.6SB2-T1	
CN6616*	1-508-784-21	PIN, CONNECTOR (5MM PITCH)	1P	D6652	8-719-110-47	DIODE RD18ES-T1B	
CN6618*	1-508-784-21	PIN, CONNECTOR (5MM PITCH)	1P	D6800	8-719-110-03	DIODE RD7.5ES-T1B	
CN6800	1-785-802-11	PIN, CONNECTOR (WITH PWB)	20P	D6801	8-719-911-19	DIODE 1SS119-25TD	
CN6801*	1-785-270-12	PIN, DY CONNECTOR (PC BOARD)		D6803	8-719-510-73	DIODE S3L20UF4	
CN6802	1-793-495-11	CONNECTOR, BOARD TO BOARD	50P	D6805	8-719-110-39	DIODE RD15ES-T1B	
CN6804	1-691-765-11	PLUG (MICRO CONNECTOR)	3P (KV-ES34N90)	D6806	8-719-911-19	DIODE 1SS119-25TD	
CN6810	1-785-879-11	CONNECTOR, ONE TOUCH		D6807	8-719-109-68	DIODE RD3.6ES-T1B	
CN6811*	1-508-784-21	PIN, CONNECTOR (5MM PITCH)	1P	D6808	8-719-914-43	DIODE DAN202K-T-146	
CN6812*	1-508-784-21	PIN, CONNECTOR (5MM PITCH)	1P	D6809	8-719-908-03	DIODE GP08DPKG23	
		<DIODE>		D6812	8-719-110-39	DIODE RD15ES-T1B	
D6601	8-719-911-19	DIODE 1SS119-25TD		D6813	8-719-302-06	DIODE EU2-V1	
D6602	8-719-073-01	DIODE MA111-TX		D6814	8-719-018-82	DIODE RGP02-20EL-6394	
D6603	8-719-073-01	DIODE MA111-TX		D6816	8-719-510-73	DIODE S3L20UF4	
D6604	8-719-073-01	DIODE MA111-TX		D6817	8-719-510-73	DIODE S3L20UF4	
D6605	8-719-510-53	DIODE D4SB60L		D6820	8-719-970-87	DIODE ERA38-06TP1	
D6606	8-719-073-01	DIODE MA111-TX		D6821	8-719-970-87	DIODE ERA38-06TP1	
D6607	8-719-073-01	DIODE MA111-TX		D6822	8-719-067-18	DIODE RN4Z	
D6608	8-719-073-01	DIODE MA111-TX		D6823	8-719-911-19	DIODE 1SS119-25TD	
D6609	8-719-911-19	DIODE 1SS119-25TD		D6824	8-719-510-73	DIODE S3L20UF4	
D6610	8-719-073-01	DIODE MA111-TX		D6825	8-719-914-43	DIODE DAN202K-T-146	
D6611	8-719-073-01	DIODE MA111-TX		D6826	8-719-911-19	DIODE 1SS119-25TD	
D6612	8-719-911-55	DIODE ERC04-06S				<FERRITE BEAD>	
D6613	8-719-911-55	DIODE ERC04-06S		FB6602	1-239-358-21	FILTER, NOISE	
D6614	8-719-110-30	DIODE RD12ES-T1B		FB6603	1-239-358-21	FILTER, NOISE	
D6615	8-719-911-19	DIODE 1SS119-25TD				<IC>	
D6616	8-719-911-55	DIODE ERC04-06S		IC6601	8-759-198-31	IC UPC1093J-1-T	
D6617	8-719-911-55	DIODE ERC04-06S		IC6602	8-759-103-93	IC UPC393C	
D6618	8-719-073-01	DIODE MA111-TX		IC6603	8-749-016-66	IC MCR5152	
D6619	8-719-110-30	DIODE RD12ES-T1B		IC6604	8-759-468-89	IC TOP209P	
D6621	8-719-063-73	DIODE D1NL20U-TR		IC6606	8-759-450-47	IC BA05T	
D6622	8-719-979-64	DIODE UF4005PKG23		IC6607	8-749-012-13	IC DM-58	
D6623	8-719-059-23	DIODE P6KE200AG23		IC6608	8-759-103-93	IC UPC393C	
D6624	8-719-510-02	DIODE D1NS4-TR		IC6800	8-759-192-71	IC STV9379	
D6625	8-719-110-36	DIODE RD13ES-T1B		IC6801	8-759-450-95	IC LM393N	
D6626	8-719-979-64	DIODE UF4005PKG23		IC6804	8-759-394-36	IC BA09T	
				IC6805	8-759-394-35	IC BA12T	
				IC6806	8-749-013-76	IC PQ6RD83B	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<CHIP CONDUCTOR>							
JR6601	1-216-295-91	SHORT	0	Q6612	8-729-029-66	TRANSISTOR DTC114ESA-TP	
JR6603	1-216-295-91	SHORT	0	Q6613	8-729-030-02	TRANSISTOR DTC144ESA-TP	
JR6604	1-216-296-91	SHORT	0	Q6614	8-729-119-76	TRANSISTOR 2SA1175TP-HFE	
JR6605	1-216-296-91	SHORT	0	Q6615	8-729-900-53	TRANSISTOR DTC114EKA-T146	
JR6606	1-216-296-91	SHORT	0	Q6616	8-729-029-66	TRANSISTOR DTC114ESA-TP	
JR6607	1-216-295-91	SHORT	0	Q6800	8-729-422-33	TRANSISTOR 2PD601AR-115	
JR6608	1-216-296-91	SHORT	0	Q6801	8-729-039-68	TRANSISTOR IRF620	
JR6609	1-216-295-91	SHORT	0	Q6802	8-729-025-91	TRANSISTOR IRFI740G	
JR6610	1-216-296-91	SHORT	0	Q6803	8-729-119-76	TRANSISTOR 2SA1175TP-HFE	
JR6611	1-216-295-91	SHORT	0	Q6804	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
JR6802	1-216-296-91	SHORT	0	Q6805	8-729-140-96	TRANSISTOR 2SC3209-L	
JR6803	1-216-295-91	SHORT	0	Q6805	8-729-805-05	TRANSISTOR 2SC3502-E	
JR6810	1-216-295-91	SHORT	0	Q6806	8-729-140-96	TRANSISTOR 2SC3209-L	
<COIL>				Q6807	8-729-046-18	TRANSISTOR 2SC5480-01	
L6601	1-412-525-31	INDUCTOR	10UH	Q6808	8-729-046-18	TRANSISTOR 2SC5480-01	
L6602	1-410-397-21	FERRITE	1.1UH	Q6809	8-729-038-83	TRANSISTOR 2SK2251-01-F19	
L6603	1-410-397-21	FERRITE	1.1UH	Q6810	8-729-047-60	TRANSISTOR IRFI830G-LF49	
L6604	1-412-525-31	INDUCTOR	10UH	Q6811	1-801-806-11	TRANSISTOR DTC144EKA-T146	
L6605	1-412-525-31	INDUCTOR	10UH	Q6812	8-729-043-95	TRANSISTOR 2SC3840K	
L6606	1-412-525-31	INDUCTOR	10UH	Q6813	8-729-422-33	TRANSISTOR 2PD601AR-115	
L6607	1-412-519-11	INDUCTOR	3.3UH	Q6814	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
L6800	1-412-525-31	INDUCTOR	10UH	Q6815	8-729-045-65	TRANSISTOR 2SA1776TV2Q	
L6801	1-406-987-21	INDUCTOR	4.7MH	Q6816	8-729-140-96	TRANSISTOR 2SC3209-L	
L6802	1-416-775-21	INDUCTOR	1MH	Q6817	8-729-422-33	TRANSISTOR 2PD601AR-115	
L6803	1-406-982-11	INDUCTOR	680UH	Q6818	1-801-806-11	TRANSISTOR DTC144EKA-T146	
L6804	1-412-519-11	INDUCTOR	3.3UH	Q6819	1-801-806-11	TRANSISTOR DTC144EKA-T146	
L6805	1-412-519-11	INDUCTOR	3.3UH	Q6820	8-729-422-33	TRANSISTOR 2PD601AR-115	
L6806	1-412-519-11	INDUCTOR	3.3UH	Q6821	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
L6807	1-412-552-11	INDUCTOR	2.2MH	Q6822	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
L6808	1-406-674-11	INDUCTOR	3.3MH	Q6823	8-729-422-33	TRANSISTOR 2PD601AR-115	
<PHOTO COUPLER>				<RESISTOR>			
PH6601△	8-749-924-35	PHOTO COUPLER ON3171-R		R6500	1-220-797-11	CEMENTED	0.47 5% 10W
PH6602△	8-749-924-35	PHOTO COUPLER ON3171-R		R6600	1-216-295-91	SHORT	0
				R6602	1-249-417-11	CARBON	1K 5% 1/4W
				R6603	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
				R6604	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
				R6605	1-215-471-00	METAL	120K 1% 1/4W
				R6606	1-215-466-00	METAL	75K 1% 1/4W
				R6607	1-215-489-00	METAL	680K 1% 1/4W
				R6608	1-215-489-00	METAL	680K 1% 1/4W
				R6609	1-215-489-00	METAL	680K 1% 1/4W
<IC LINK>				R6610	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
PS6605	1-533-597-41	LINK, IC		R6611	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
PS6606	1-533-597-41	LINK, IC		R6612	1-215-471-00	METAL	120K 1% 1/4W
PS6607	1-533-597-41	LINK, IC		R6613	1-215-489-00	METAL	680K 1% 1/4W
PS6801	1-532-841-21	LINK, IC		R6614	1-215-489-00	METAL	680K 1% 1/4W
<TRANSISTOR>				R6615	1-215-489-00	METAL	680K 1% 1/4W
Q6601	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		R6616	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
Q6602	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		R6617	1-208-844-11	METAL CHIP	390K 0.5% 1/10W
Q6603	8-729-119-76	TRANSISTOR 2SA1175TP-HFE		R6618	1-215-466-00	METAL	75K 1% 1/4W
Q6604	8-729-119-76	TRANSISTOR 2SA1175TP-HFE		R6619	1-216-113-00	RES-CHIP	470K 5% 1/10W
Q6605	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R6620	1-208-846-11	METAL CHIP	470K 0.5% 1/10W
Q6606	8-729-140-93	TRANSISTOR 2SB734-T-4		R6621	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q6608	8-729-200-21	TRANSISTOR 2SC2500-B		R6622	1-220-797-11	CEMENTED	0.47 5% 10W
Q6609	8-729-029-56	TRANSISTOR DTA144ESA-TP		R6623	1-215-457-00	METAL	33K 1% 1/4W
Q6610	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		R6624	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
Q6611	8-729-029-66	TRANSISTOR DTC114ESA-TP					

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

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REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK		
R6625	1-208-826-11	METAL CHIP	68K	0.5%	1/10W	R6692	1-249-410-11	CARBON	270	5%	1/4W
R6626	1-208-830-11	METAL CHIP	100K	0.5%	1/10W	R6693	1-215-451-00	METAL	18K	1%	1/4W
R6627	1-208-834-11	METAL CHIP	150K	0.5%	1/10W	R6694	1-215-471-00	METAL	120K	1%	1/4W
R6628	1-216-073-00	RES-CHIP	10K	5%	1/10W	R6696	1-215-925-11	METAL OXIDE	22K	5%	3W
R6629	1-215-466-00	METAL	75K	1%	1/4W	R6697	1-249-429-11	CARBON	10K	5%	1/4W
R6630	1-215-489-00	METAL	680K	1%	1/4W	R6698	1-249-417-11	CARBON	1K	5%	1/4W
R6631	1-215-489-00	METAL	680K	1%	1/4W	R6701	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6632	1-215-489-00	METAL	680K	1%	1/4W	R6702	1-216-093-91	RES-CHIP	68K	5%	1/10W
R6633	1-215-458-00	METAL	36K	1%	1/4W	R6703	1-216-091-00	RES-CHIP	56K	5%	1/10W
R6634	1-215-489-00	METAL	680K	1%	1/4W	R6704	1-249-377-11	CARBON	0.47	5%	1/4W
R6635	1-215-489-00	METAL	680K	1%	1/4W	R6707	1-249-421-11	CARBON	2.2K	5%	1/4W
R6636	1-215-489-00	METAL	680K	1%	1/4W	R6710	1-217-158-00	METAL	0.47	10%	5W
R6637	1-215-463-00	METAL	56K	1%	1/4W	R6711	1-215-471-00	METAL	120K	1%	1/4W
R6638	1-240-876-11	CEMENTED	1	5%	15W	R6712	1-215-451-00	METAL	18K	1%	1/4W
R6639	1-240-876-11	CEMENTED	1	5%	15W	R6713	1-249-423-11	CARBON	3.3K	5%	1/4W
R6640	1-216-081-00	RES-CHIP	22K	5%	1/10W	R6714	1-249-423-11	CARBON	3.3K	5%	1/4W
R6641	1-260-131-11	CARBON	470K	5%	1/2W	R6715	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6642	1-260-131-11	CARBON	470K	5%	1/2W	R6800	1-249-429-11	CARBON	10K	5%	1/4W
R6643	1-216-081-00	RES-CHIP	22K	5%	1/10W	R6801	1-249-429-11	CARBON	10K	5%	1/4W
R6644	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R6802	1-249-429-11	CARBON	10K	5%	1/4W
R6645	1-202-933-61	FUSIBLE	0.1	10%	1/2W	R6803	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6646	1-216-073-00	RES-CHIP	10K	5%	1/10W	R6804	1-208-795-11	METAL CHIP	3.6K	0.5%	1/10W
R6647	1-215-864-00	METAL OXIDE	150	5%	1W	R6805	1-215-441-00	METAL	6.8K	1%	1/4W
R6648	1-215-481-00	METAL	330K	1%	1/4W	R6806	1-215-434-00	METAL	3.6K	1%	1/4W
R6649	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R6807	1-249-383-11	CARBON	1.5	5%	1/4W
R6650	1-215-481-00	METAL	330K	1%	1/4W	R6810	1-214-798-21	METAL	1.8	1%	1/2W
R6651	1-215-430-00	METAL	2.4K	1%	1/4W	R6811	1-215-913-11	METAL OXIDE	220	5%	3W
R6652	1-215-450-00	METAL	16K	1%	1/4W	R6812	1-247-843-11	CARBON	3.3K	5%	1/4W
R6653	1-219-776-11	CARBON	2.2M	10%	1/2W	R6813	1-214-798-21	METAL	1.8	1%	1/2W
R6654	1-216-089-91	RES-CHIP	47K	5%	1/10W	R6814	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6655	1-216-073-00	RES-CHIP	10K	5%	1/10W	R6815	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R6656	1-215-481-00	METAL	330K	1%	1/4W	R6816	1-214-915-00	METAL	120K	1%	1/2W
R6657	1-247-791-91	CARBON	22	5%	1/4W	R6818	1-215-485-00	METAL	470K	1%	1/4W
R6658	1-216-073-00	RES-CHIP	10K	5%	1/10W	R6819	1-249-421-11	CARBON	2.2K	5%	1/4W
R6659	1-216-073-00	RES-CHIP	10K	5%	1/10W	R6820	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6660	1-249-389-11	CARBON	4.7	5%	1/4W	R6822	1-216-461-00	METAL OXIDE	5.6K	5%	2W
R6661	1-215-421-00	METAL	1K	1%	1/4W	R6823	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R6662	1-216-381-11	METAL OXIDE	0.22	5%	3W	R6824	1-249-411-11	CARBON	330	5%	1/4W
R6663	1-216-381-11	METAL OXIDE	0.22	5%	3W	R6825	1-249-411-11	CARBON	330	5%	1/4W
R6665	1-219-776-11	CARBON	2.2M	10%	1/2W	R6826	1-215-894-11	METAL OXIDE	2.2K	5%	2W
R6666	1-208-782-11	METAL CHIP	1K	0.5%	1/10W	R6827	1-216-459-21	METAL OXIDE	2.7K	5%	2W
R6667	1-249-413-11	CARBON	470	5%	1/4W	R6828	1-249-417-11	CARBON	1K	5%	1/4W
R6668	1-216-017-91	RES-CHIP	47	5%	1/10W	R6829	1-249-417-11	CARBON	1K	5%	1/4W
R6669	1-249-417-11	CARBON	1K	5%	1/4W	R6830	1-247-764-11	CARBON	10K	5%	1/2W
R6672	1-249-421-11	CARBON	2.2K	5%	1/4W	R6831	1-247-764-11	CARBON	10K	5%	1/2W
R6674	1-249-415-11	CARBON	680	5%	1/4W	R6832	1-215-477-00	METAL	220K	1%	1/4W
R6679	1-249-437-11	CARBON	47K	5%	1/4W	R6833	1-215-493-00	METAL	1M	1%	1/4W
R6680	1-216-362-11	METAL OXIDE	0.27	5%	2W	R6834	1-216-381-11	METAL OXIDE	0.22	5%	3W
R6681	1-249-429-11	CARBON	10K	5%	1/4W	R6835	1-216-381-11	METAL OXIDE	0.22	5%	3W
R6682	1-249-416-11	CARBON	820	5%	1/4W	R6836	1-215-905-11	METAL OXIDE	10	5%	3W
R6683	1-260-127-11	CARBON	220K	5%	1/2W	R6837	1-215-905-11	METAL OXIDE	10	5%	3W
R6685	1-249-421-11	CARBON	2.2K	5%	1/4W	R6838	1-215-461-00	METAL	47K	1%	1/4W
R6686	1-218-265-11	METAL	8.2M	5%	1W	R6839	1-249-405-11	CARBON	100	5%	1/4W
R6688 Δ	1-249-417-11	CARBON	1K	5%	1/4W	R6841	1-216-434-11	METAL OXIDE	1.8K	5%	1W
R6689	1-249-389-11	CARBON	4.7	5%	1/4W	R6842	1-215-923-00	METAL OXIDE	10K	5%	3W
R6690	1-249-429-11	CARBON	10K	5%	1/4W	R6843	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6691	1-260-131-11	CARBON	470K	5%	1/2W	R6844	1-247-807-31	CARBON	100	5%	1/4W
						R6845	1-208-824-11	METAL CHIP	56K	0.5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK
R6846	1-260-127-11	CARBON	220K 5% 1/2W
R6847	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6848	1-216-101-00	RES-CHIP	150K 5% 1/10W
R6849	1-249-443-11	CARBON	0.47 5% 1/4W
R6850	1-249-443-11	CARBON	0.47 5% 1/4W
R6851	1-260-288-11	CARBON	0.47 5% 1/2W
R6852	1-216-345-11	METAL OXIDE	0.47 5% 1W
R6853	1-260-288-11	CARBON	0.47 5% 1/2W
R6854	1-215-923-00	METAL OXIDE	10K 5% 3W
R6855	1-214-898-81	METAL	24K 1% 1/2W
R6856	1-215-923-00	METAL OXIDE	10K 5% 3W
R6857	1-215-923-00	METAL OXIDE	10K 5% 3W
R6858	1-214-898-81	METAL	24K 1% 1/2W
R6859	1-215-871-11	METAL OXIDE	2.2K 5% 1W
R6860	1-215-923-00	METAL OXIDE	10K 5% 3W
R6861	1-216-295-91	SHORT	0
R6862	1-216-081-00	RES-CHIP	22K 5% 1/10W
R6863	1-215-894-11	METAL OXIDE	2.2K 5% 2W
R6864	1-216-081-00	RES-CHIP	22K 5% 1/10W
R6865	1-216-101-00	RES-CHIP	150K 5% 1/10W
R6866	1-215-431-00	METAL	2.7K 1% 1/4W
R6867	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R6868	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R6869	1-216-113-00	RES-CHIP	470K 5% 1/10W
R6870	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6871	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R6872	1-260-125-11	CARBON	150K 5% 1/2W
R6873	1-260-125-11	CARBON	150K 5% 1/2W
R6875	1-249-417-11	CARBON	1K 5% 1/4W
R6876	1-260-288-11	CARBON	0.47 5% 1/2W
R6877	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W
R6878	1-208-770-11	METAL CHIP	330 0.5% 1/10W
R6879	1-216-105-91	RES-CHIP	220K 5% 1/10W
R6880	1-215-441-00	METAL	6.8K 1% 1/4W
R6881	1-215-448-00	METAL	13K 1% 1/4W
R6882	1-215-453-00	METAL	22K 1% 1/4W
R6883	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R6884	1-249-441-11	CARBON	100K 5% 1/4W
R6885	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R6886	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R6887	1-216-081-00	RES-CHIP	22K 5% 1/10W
R6888	1-216-089-91	RES-CHIP	47K 5% 1/10W
R6889	1-260-125-11	CARBON	150K 5% 1/2W
R6890	1-260-125-11	CARBON	150K 5% 1/2W
R6891	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
R6892	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6893	1-216-085-00	RES-CHIP	33K 5% 1/10W
R6894	1-260-133-11	CARBON	680K 5% 1/2W
R6895	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6896	1-216-089-91	RES-CHIP	47K 5% 1/10W
R6897	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6899	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6900	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R6901	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R6902	1-249-441-11	CARBON	100K 5% 1/4W
R6903	1-215-923-00	METAL OXIDE	10K 5% 3W
R6905	1-249-389-11	CARBON	4.7 5% 1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R6906	1-216-079-00	RES-CHIP	18K 5% 1/10W
R6907	1-216-079-00	RES-CHIP	18K 5% 1/10W
<RELAY>			
RY6601	Δ 1-515-840-12	RELAY	
RY6602	Δ 1-755-357-11	RELAY, AC POWER	
RY6603	Δ 1-755-357-11	RELAY, AC POWER	
<TRANSFORMER>			
T6601	Δ 1-431-732-12	TRANSFORMER, CONVERTER (SRT)	
T6602	Δ 1-435-081-11	TRANSFORMER, CONVERTER (PIT)	
T6800	1-429-741-11	TRANSFORMER, DRIVE	
T6801	Δ 1-433-705-21	TRANSFORMER, FERRITE (DFT)	
T6802	1-433-489-11	TRANSFORMER, FERRITE (HDT)	
T6803	Δ 1-453-326-11	FBT ASSY NX-4601/J1J4	
T6804	1-433-489-11	TRANSFORMER, FERRITE (HDT)	
<THERMISTOR>			
TH6601	1-803-540-11	THERMISTOR	
TH6603	1-803-586-11	THERMISTOR, NTC	
<VARISTOR>			
VD6601	1-803-614-11	VARISTOR	
VD6603	1-803-830-11	VARISTOR (ERZV14D621)	

* A-1343-842-A	DH BOARD MOUNTED (Thailand)		
A-1343-860-A	DH BOARD MOUNTED (Malaysia)		
* A-1343-744-A	DH BOARD MOUNTED (Taiwan)		

<CAPACITOR>			
C3801	1-126-964-11	ELECT	10UF 20.00% 50V
C3804	1-102-129-00	CERAMIC	0.01UF 10.00% 50V
C3805	1-126-964-11	ELECT	10UF 20.00% 50V
C3807	1-102-129-00	CERAMIC	0.01UF 10.00% 50V
C3816	1-126-964-11	ELECT	10UF 20.00% 50V
C3819	1-126-960-11	ELECT	1UF 20.00% 50V
C3822	1-136-165-00	MYLAR	0.1UF 5.00% 50V
<CONNECTOR>			
CN3801	1-695-915-11	TAB (CONTACT)	
CN3802*	1-564-509-11	PLUG, CONNECTOR 6P	
CN3803	1-695-915-11	TAB (CONTACT)	
<DIODE>			
D3805	8-719-911-19	DIODE 1SS119-25TD	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<IC>					
IC3805	8-759-822-38	IC LA6510		C6104	1-126-965-11	ELECT	22UF 20.00% 50V
IC3807	1-418-597-11	SENSOR UNIT, MAGNETIC		C6105	1-104-665-11	ELECT	100UF 20.00% 25V
		<NEON LAMP>		C6106	1-163-809-11	CERAMIC CHIP	0.047UF 10.00% 25V
				C6108	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
				C6109	1-126-967-11	ELECT	47UF 20.00% 50V
				C6112	1-163-037-11	CERAMIC CHIP	0.022UF 10.00% 50V
NL3801	1-576-414-21	GAP, SPARK		C6113	1-137-493-11	FILM	0.0047UF 5.00% 630V
		<TRANSISTOR>		C6114	1-107-909-11	ELECT	47UF 20.00% 50V
Q3807	8-729-030-02	TRANSISTOR DTC144ES-TP		C6115	1-163-005-11	CERAMIC CHIP	470PF 10.00% 50V
Q3808	8-729-030-02	TRANSISTOR DTC144ES-TP		C6116	1-163-275-11	CERAMIC CHIP	0.001UF 5.00% 50V
Q3809	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		C6117	1-163-275-11	CERAMIC CHIP	0.001UF 5.00% 50V
Q3810	8-729-119-76	TRANSISTOR 2SA1175TP-HFE		C6118	1-107-909-11	ELECT	47UF 20.00% 16V
Q3811	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		C6120	1-163-809-11	CERAMIC CHIP	0.047UF 10.00% 25V
				C6121	1-126-963-11	ELECT	4.7UF 20.00% 50V
Q3812	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		C6122	1-126-967-11	ELECT	47UF 20.00% 50V
		<RESISTOR>		C6123	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
R3802	1-249-417-11	CARBON	1K 5% 1/4W	C6124	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
R3803	1-249-417-11	CARBON	1K 5% 1/4W	C6125	1-104-664-11	ELECT	47UF 20.00% 16V
R3804	1-215-444-00	METAL	9.1K 1% 1/4W	C6127	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
R3805	1-249-420-11	CARBON	1.8K 5% 1/4W	C6128	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
R3807	1-215-413-00	METAL	470 1% 1/4W	C6129	1-126-964-11	ELECT	10UF 20.00% 50V
				C6131	1-126-964-11	ELECT	10UF 20.00% 50V
R3808	1-247-883-00	CARBON	150K 5% 1/4W	C6133	1-137-194-81	MYLAR	0.47UF 5.00% 50V
R3809	1-247-876-11	CARBON	75K 5% 1/4W	C6136	1-129-716-00	FILM	0.015UF 5.00% 630V
R3810	1-249-425-11	CARBON	4.7K 5% 1/4W	C6138	1-126-968-11	ELECT	100UF 20.00% 50V
R3811	1-219-510-11	CARBON	470K 5% 1/2W	C6139	1-107-902-11	ELECT	1UF 20.00% 50V
R3812	1-219-759-11	CARBON	1M 5% 1/2W	C6140	1-126-960-11	ELECT	1UF 20.00% 50V
R3814	1-249-411-11	CARBON	330 5% 1/4W	C6201	1-126-967-11	ELECT	47UF 20.00% 50V
R3823	1-249-395-11	CARBON	15 5% 1/4W	C6202	1-126-967-11	ELECT	47UF 20.00% 50V
R3825	1-249-417-11	CARBON	1K 5% 1/4W	C6203	1-126-967-11	ELECT	47UF 20.00% 50V
R3828	1-249-377-11	CARBON	0.47 5% 1/4W	C6204	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
R3839	1-249-429-11	CARBON	10K 5% 1/4W	C6205	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
R3845	1-249-425-11	CARBON	4.7K 5% 1/4W	C6206	1-126-964-11	ELECT	10UF 20.00% 50V
R3846	1-249-417-11	CARBON	1K 5% 1/4W	C6207	1-126-967-11	ELECT	47UF 20.00% 50V
R3847	1-247-807-31	CARBON	100 5% 1/4W	C6208	1-126-967-11	ELECT	47UF 20.00% 50V
R3848	1-249-417-11	CARBON	1K 5% 1/4W	C6209	1-163-133-00	CERAMIC CHIP	470PF 5.00% 50V
R3849	1-249-377-11	CARBON	0.47 5% 1/4W	C6210	1-163-009-11	CERAMIC CHIP	0.001UF 10.00% 50V
R3852	1-249-441-11	CARBON	100K 5% 1/4W	C6211	1-126-964-11	ELECT	10UF 20.00% 50V
R3854	1-249-429-11	CARBON	10K 5% 1/4W	C6212	1-164-222-11	CERAMIC CHIP	0.22UF 25V
				C6350	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
				C6351	1-126-967-11	ELECT	47UF 20.00% 50V
				C6353	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V
				C6355	1-163-251-11	CERAMIC CHIP	100PF 5.00% 50V
				C6356	1-163-809-11	CERAMIC CHIP	0.047UF 10.00% 25V
				C6358	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
				C6361	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
				C6362	1-164-182-11	CERAMIC CHIP	0.0033UF 10.00% 50V
				C6365	1-163-809-11	CERAMIC CHIP	0.047UF 10.00% 25V
				C6376	1-104-664-11	ELECT	47UF 20.00% 16V
				C6377	1-128-551-11	ELECT	22UF 20.00% 25V
				C6378	1-115-339-11	CERAMIC CHIP	0.1UF 10.00% 50V
				C6380	1-136-495-11	MYLAR	0.068UF 5.00% 50V
				C6381	1-126-964-11	ELECT	10UF 20.00% 50V
				C6385	1-104-664-11	ELECT	47UF 20.00% 25V
				C6386	1-104-664-11	ELECT	47UF 20.00% 25V
				C6388	1-126-964-11	ELECT	10UF 20.00% 50V
				C6392	1-104-664-11	ELECT	47UF 20.00% 25V
C6101	1-107-714-11	ELECT	10UF 20.00% 50V				
C6102	1-109-953-11	ELECT	2.2UF 20.00% 50V				
C6103	1-107-714-11	ELECT	10UF 20.00% 50V				

* A-1343-843-A D1 BOARD MOUNTED (Thailand)

* A-1343-839-A D1 BOARD MOUNTED (Malaysia)

* A-1343-777-A D1 BOARD MOUNTED (Taiwan)

4-027-606-01 HEAT SINK (TO-220 TYPE)

4-382-854-11 SCREW (M3X10), P, SW (+)

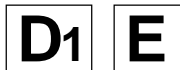
<CAPACITOR>

D1

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C6409	1-126-963-11	ELECT	4.7UF 20.00% 50V	JR6111	1-216-296-91	SHORT	0
		<CONNECTOR>		JR6112	1-216-296-91	SHORT	0
CN6100	1-793-498-11	CONNECTOR, BOARD TO BOARD 50P		JR6113	1-216-296-91	SHORT	0
CN6101*	1-564-525-11	PLUG, CONNECTOR 10P		JR6114	1-216-296-91	SHORT	0
CN6103*	1-564-518-11	PLUG, CONNECTOR 3P		JR6115	1-216-296-91	SHORT	0
CN6104*	1-564-523-11	PLUG, CONNECTOR 8P				<COIL>	
		<DIODE>		L6101	1-416-920-11	INDUCTOR	10MH
D6101	8-719-510-02	DIODE D1NS4-TR		L6102	1-406-989-21	INDUCTOR	10MH
D6102	8-719-510-02	DIODE D1NS4-TR				<IC LINK>	
D6103	8-719-063-73	DIODE D1NL20U-TR		PS6101	1-533-589-31	LINK, IC	
D6104	8-719-911-19	DIODE 1SS119-25TD				<TRANSISTOR>	
D6105	8-719-109-60	DIODE RD2.7ES-T1B		Q6103	8-729-046-33	TRANSISTOR IRF720-LF49	
D6106	8-719-510-02	DIODE D1NS4-TR		Q6104	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
D6107	8-719-911-19	DIODE 1SS119-25TD		Q6105	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
D6108	8-719-911-19	DIODE 1SS119-25TD		Q6106	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
D6110	8-719-987-87	DIODE ERA82-004TP1		Q6107	8-729-140-93	TRANSISTOR 2SB734-T-4	
D6133	8-719-911-19	DIODE 1SS119-25TD		Q6108	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
D6134	8-719-911-19	DIODE 1SS119-25TD		Q6118	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
D6201	8-719-109-88	DIODE RD5.6ES-T1B		Q6124	8-729-422-33	TRANSISTOR 2PD601AR-115	
D6210	8-719-109-88	DIODE RD5.6ES-T1B		Q6125	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
D6350	8-719-914-43	DIODE DAN202K-T-146		Q6126	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
D6351	8-719-914-43	DIODE DAN202K-T-146		Q6128	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
D6355	8-719-914-43	DIODE DAN202K-T-146		Q6201	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
D6404	8-719-914-43	DIODE DAN202K-T-146		Q6202	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
		<IC>		Q6203	8-729-422-33	TRANSISTOR 2PD601AR-115	
IC6101	8-752-053-21	IC CXA1211M-T4		Q6350	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
IC6102	8-759-450-95	IC LM393N		Q6356	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
IC6103	8-759-450-95	IC LM393N		Q6405	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
IC6104	8-759-803-42	IC LA6500-FA		Q6455	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
IC6105	8-759-450-95	IC LM393N				<RESISTOR>	
IC6106	8-759-198-31	IC UPC1093J-1-T		R6101	1-216-025-91	RES-CHIP	100 5% 1/10W
IC6108	8-759-567-08	IC MB88141APF-ER		R6103	1-216-049-91	RES-CHIP	1K 5% 1/10W
IC6201	8-759-183-37	IC CA0007AD		R6104	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
IC6202	8-759-135-80	IC LM358P		R6105	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
IC6351	8-759-450-95	IC LM393N		R6106	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
IC6353	8-759-231-53	IC L7805CV		R6107	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
IC6354	8-759-325-48	IC CA0005AD		R6108	1-216-073-00	RES-CHIP	10K 5% 1/10W
IC6356	8-759-822-38	IC LA6510		R6109	1-216-073-00	RES-CHIP	10K 5% 1/10W
		<CHIP CONDUCTOR>		R6110	1-216-295-91	SHORT	0
JR6101	1-216-296-91	SHORT	0	R6112	1-208-824-11	METAL CHIP	56K 0.5% 1/10W
JR6102	1-216-296-91	SHORT	0	R6113	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
JR6103	1-216-296-91	SHORT	0	R6114	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
JR6104	1-216-295-91	SHORT	0	R6115	1-208-814-91	METAL CHIP	22K 0.5% 1/10W
JR6105	1-216-296-91	SHORT	0	R6116	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
JR6106	1-216-296-91	SHORT	0	R6117	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
JR6107	1-216-296-91	SHORT	0	R6118	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
JR6108	1-216-296-91	SHORT	0	R6119	1-208-796-11	METAL CHIP	3.9K 0.5% 1/10W
JR6109	1-216-296-91	SHORT	0	R6120	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
JR6110	1-216-296-91	SHORT	0	R6121	1-216-490-11	METAL OXIDE	39K 5% 3W
				R6122	1-216-295-91	SHORT	0

D1

REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK		
R6123	1-208-782-11	METAL CHIP	1K	0.5%	1/10W	R6202	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R6124	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W	R6203	1-215-906-11	METAL OXIDE	15	5%	3W
R6125	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R6204	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6126	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W	R6206	1-216-033-00	RES-CHIP	220	5%	1/10W
R6127	1-208-832-11	METAL CHIP	120K	0.5%	1/10W	R6207	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R6128	1-208-838-91	METAL CHIP	220K	0.5%	1/10W	R6208	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6129	1-216-353-00	METAL OXIDE	2.2	5%	1W	R6209	1-216-099-00	RES-CHIP	120K	5%	1/10W
R6130	1-216-073-00	RES-CHIP	10K	5%	1/10W	R6210	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6131	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W	R6211	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6133	1-208-812-11	METAL CHIP	18K	0.5%	1/10W	R6212	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6134	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	R6213	1-216-097-91	RES-CHIP	100K	5%	1/10W
R6135	1-216-073-00	RES-CHIP	10K	5%	1/10W	R6215	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6136	1-260-099-11	CARBON	1K	5%	1/2W	R6216	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6137	1-216-049-91	RES-CHIP	1K	5%	1/10W	R6217	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6138	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W	R6218	1-208-836-11	METAL CHIP	180K	0.5%	1/10W
R6139	1-208-797-11	METAL CHIP	4.3K	0.5%	1/10W	R6219	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R6140	1-216-077-91	RES-CHIP	15K	5%	1/10W	R6220	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R6141	1-208-830-11	METAL CHIP	100K	0.5%	1/10W	R6221	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R6142	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	R6222	1-216-295-91	SHORT	0		
R6143	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W	R6223	1-216-295-91	SHORT	0		
R6144	1-208-832-11	METAL CHIP	120K	0.5%	1/10W	R6224	1-208-824-11	METAL CHIP	56K	0.5%	1/10W
R6146	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	R6225	1-208-824-11	METAL CHIP	56K	0.5%	1/10W
R6149	1-208-828-11	METAL CHIP	82K	0.5%	1/10W	R6226	1-216-033-00	RES-CHIP	220	5%	1/10W
R6150	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	R6227	1-216-033-00	RES-CHIP	220	5%	1/10W
R6151	1-216-049-91	RES-CHIP	1K	5%	1/10W	R6324	1-216-017-91	RES-CHIP	47	5%	1/10W
R6152	1-216-081-00	RES-CHIP	22K	5%	1/10W	R6325	1-216-017-91	RES-CHIP	47	5%	1/10W
R6153	1-216-105-91	RES-CHIP	220K	5%	1/10W	R6326	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R6154	1-208-810-11	METAL CHIP	15K	0.5%	1/10W	R6327	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R6155	1-208-822-11	METAL CHIP	47K	0.5%	1/10W	R6350	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R6156	1-216-077-91	RES-CHIP	15K	5%	1/10W	R6357	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6157	1-216-089-91	RES-CHIP	47K	5%	1/10W	R6359	1-216-097-91	RES-CHIP	100K	5%	1/10W
R6158	1-216-689-11	RES-CHIP	39K	5%	1/10W	R6360	1-216-073-00	RES-CHIP	10K	5%	1/10W
R6159	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W	R6361	1-216-097-91	RES-CHIP	100K	5%	1/10W
R6161	1-208-814-91	METAL CHIP	22K	0.5%	1/10W	R6367	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R6162	1-216-049-91	RES-CHIP	1K	5%	1/10W	R6368	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R6168	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R6375	1-216-041-00	RES-CHIP	470	5%	1/10W
R6169	1-208-776-11	METAL CHIP	560	0.5%	1/10W	R6378	1-215-473-00	METAL	150K	1%	1/4W
R6170	1-216-037-00	RES-CHIP	330	5%	1/10W	R6379	1-216-295-91	SHORT	0		
R6171	1-216-113-00	RES-CHIP	470K	5%	1/10W	R6382	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6172	1-216-105-91	RES-CHIP	220K	5%	1/10W	R6385	1-216-295-91	SHORT	0		
R6173	1-216-097-91	RES-CHIP	100K	5%	1/10W	R6386	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6174	1-208-812-11	METAL CHIP	18K	0.5%	1/10W	R6391	1-216-049-91	RES-CHIP	1K	5%	1/10W
R6175	1-208-816-11	METAL CHIP	27K	0.5%	1/10W	R6394	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R6176	1-249-389-11	CARBON	4.7	5%	1/4W	R6413	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6177	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R6416	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R6178	1-249-389-11	CARBON	4.7	5%	1/4W	R6418	1-216-113-00	RES-CHIP	470K	5%	1/10W
R6179	1-216-101-00	RES-CHIP	150K	5%	1/10W	R6419	1-216-097-91	RES-CHIP	100K	5%	1/10W
R6180	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R6420	1-216-111-00	RES-CHIP	390K	5%	1/10W
R6181	1-216-105-91	RES-CHIP	220K	5%	1/10W	R6433	1-216-097-91	RES-CHIP	100K	5%	1/10W
R6190	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R6438	1-215-437-00	METAL	4.7K	1%	1/4W
R6192	1-216-295-91	SHORT	0			R6442	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6195	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W	R6456	1-216-097-91	RES-CHIP	100K	5%	1/10W
R6196	1-249-377-11	CARBON	0.47	5%	1/4W	R6457	1-208-820-11	METAL CHIP	39K	0.5%	1/10W
R6200	1-208-836-11	METAL CHIP	180K	0.5%	1/10W	R6458	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6201	1-247-750-11	CARBON	680	5%	1/2W	R6459	1-216-057-00	RES-CHIP	2.2K	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<VARIABLE RESISTOR>					
RV6100	1-241-785-11	RES, ADJ, CERMET 10K		C4357	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V

		* A-1343-844-A E BOARD MOUNTED (Thailand)		C4358	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
		* A-1343-840-A E BOARD MOUNTED (Malaysia)		C4359	1-164-161-11	CERAMIC CHIP 0.0022UF	10.00% 50V
		* A-1343-778-C E BOARD MOUNTED (Taiwan)					
		*****		C4360	1-126-963-11	ELECT 4.7UF	20.00% 50V
	1-900-252-98	CONNECTOR ASSY 4P		C4362	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
		<CAPACITOR>		C4363	1-126-967-11	ELECT 47UF	20.00% 50V
C4301	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C4364	1-126-967-11	ELECT 47UF	20.00% 50V
C4302	1-102-074-00	CERAMIC 0.001UF	10.00% 50V	C4366	1-104-760-11	CERAMIC CHIP 0.047UF	10.00% 50V
C4308	1-126-960-11	ELECT 1UF	20.00% 50V				
C4309	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V	C4367	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C4316	1-104-664-11	ELECT 47UF	20.00% 25V	C4369	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
				C4370	1-126-967-11	ELECT 47UF	20.00% 50V
C4317	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C4371	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C4318	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C4378	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C4319	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V				
C4320	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C4800	1-136-165-00	MYLAR 0.1UF	5.00% 50V
C4321	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C4801	1-136-161-00	MYLAR 0.047UF	5.00% 50V
				C4802	1-163-275-11	CERAMIC CHIP 0.001UF	5.00% 50V
C4322	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C4803	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C4324	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C4804	1-126-967-11	ELECT 47UF	20.00% 50V
C4325	1-163-093-00	CERAMIC CHIP 10PF	5.00% 50V				
C4326	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C4805	1-126-964-11	ELECT 10UF	20.00% 50V
C4327	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C4806	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V
				C4808	1-136-165-00	MYLAR 0.1UF	5.00% 50V
C4328	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C4809	1-163-275-11	CERAMIC CHIP 0.001UF	5.00% 50V
C4329	1-126-963-11	ELECT 4.7UF	20.00% 50V	C4811	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C4330	1-136-244-11	FILM 0.1UF	5.00% 50V				
C4331	1-126-959-11	ELECT 0.47UF	20.00% 50V	C4812	1-126-967-11	ELECT 47UF	20.00% 50V
C4332	1-136-161-00	MYLAR 0.047UF	5.00% 50V	C4813	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
				C4814	1-126-967-11	ELECT 47UF	20.00% 50V
C4333	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C4817	1-126-967-11	ELECT 47UF	20.00% 50V
C4334	1-126-967-11	ELECT 47UF	20.00% 50V	C4818	1-107-906-11	ELECT 10UF	20.00% 50V
C4336	1-126-967-11	ELECT 47UF	20.00% 50V				
C4338	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C4820	1-107-909-11	ELECT 47UF	20.00% 50V
C4339	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V	C4821	1-107-909-11	ELECT 47UF	20.00% 16V
				C4822	1-107-909-11	ELECT 47UF	20.00% 16V
C4340	1-126-967-11	ELECT 47UF	20.00% 50V	C4823	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C4341	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V	C4824	1-163-809-11	CERAMIC CHIP 0.047UF	10.00% 25V
C4342	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V				
C4343	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C4825	1-163-809-11	CERAMIC CHIP 0.047UF	10.00% 25V
C4344	1-163-809-11	CERAMIC CHIP 0.047UF	10.00% 25V	C4833	1-126-964-11	ELECT 10UF	20.00% 50V
				C4834	1-126-933-11	ELECT 100UF	20.00% 16V
C4345	1-126-967-11	ELECT 47UF	20.00% 50V	C4835	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C4346	1-164-346-11	CERAMIC CHIP 1UF	16V	C4836	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C4347	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V				
C4348	1-164-346-11	CERAMIC CHIP 1UF	16V	C4837	1-163-275-11	CERAMIC CHIP 0.001UF	5.00% 50V
C4349	1-164-346-11	CERAMIC CHIP 1UF	16V				
						<CONNECTOR>	
C4350	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN4101	1-793-497-11	CONNECTOR, BOARD TO BOARD 40P	
C4351	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V	CN4500*	1-564-512-11	PLUG, CONNECTOR 9P	
C4352	1-126-967-11	ELECT 47UF	20.00% 50V	CN4502*	1-564-506-11	PLUG, CONNECTOR 3P	
C4353	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V				
C4354	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V			<DIODE>	
				D4303	8-719-109-72	DIODE RD3.9ES-T1B	
C4355	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D4304	8-719-042-28	DIODE HZU9.1BTRF	
C4356	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D4305	8-719-042-28	DIODE HZU9.1BTRF	
				D4311	8-719-914-43	DIODE DAN202K-T-146	
				D4312	8-719-914-43	DIODE DAN202K-T-146	
				D4313	8-719-401-63	DIODE MA3062M-TX	
				D4314	8-719-914-43	DIODE DAN202K-T-146	
				D4800	8-719-914-43	DIODE DAN202K-T-146	
				D4801	8-719-914-43	DIODE DAN202K-T-146	
				D4803	8-719-911-19	DIODE 1SS119-25TD	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D4804	8-719-911-19	DIODE 1SS119-25TD		Q4800	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
D4805	8-719-109-81	DIODE RD4.7ES-T1B2		Q4801	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
D4807	8-719-914-43	DIODE DAN202K-T-146		Q4802	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
D4808	8-719-914-43	DIODE DAN202K-T-146		Q4803	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
D4809	8-719-914-43	DIODE DAN202K-T-146		Q4804	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
D4811	1-249-381-11	CARBON 1	5% 1/4W	Q4805	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
D4812	8-719-911-19	DIODE 1SS119-25TD		Q4806	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
D4813	8-719-914-43	DIODE DAN202K-T-146		Q4807	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
D4814	8-719-914-43	DIODE DAN202K-T-146		Q4808	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
D4815	8-719-109-54	DIODE RD2.2ES-T1B2		Q4809	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
D4816	8-719-911-19	DIODE 1SS119-25TD		Q4810	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
		<FERRITE BEAD>		Q4811	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
FB4387	1-216-295-91	SHORT	0	Q4812	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
FB4388	1-216-295-91	SHORT	0	Q4813	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
FB4389	1-216-295-91	SHORT	0	Q4814	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
		<IC>		Q4815	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
IC4301	8-752-090-87	IC CXA2100AQ		Q4816	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
IC4800	8-759-450-95	IC LM393N		Q4817	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
IC4801	8-759-450-95	IC LM393N		Q4818	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
IC4802	8-759-638-79	IC NJM3404AD-W		Q4820	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
IC4803	8-759-700-42	IC NJM2904D		Q4821	1-801-806-11	TRANSISTOR DTC144EKA-T146	
		<CHIP CONDUCTOR>		Q4822	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
JR4301	1-216-295-91	SHORT	0	Q4823	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
		<COIL>		Q4824	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
L4301	1-412-029-11	INDUCTOR CHIP 10UH		Q4825	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
L4302	1-412-029-11	INDUCTOR CHIP 10UH		Q4826	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
L4303	1-412-029-11	INDUCTOR CHIP 10UH				<RESISTOR>	
L4304	1-412-029-11	INDUCTOR CHIP 10UH		R4301	1-216-025-91	RES-CHIP 100 5% 1/10W	
L4305	1-412-029-11	INDUCTOR CHIP 10UH		R4302	1-216-025-91	RES-CHIP 100 5% 1/10W	
L4306	1-412-029-11	INDUCTOR CHIP 10UH		R4303	1-216-025-91	RES-CHIP 100 5% 1/10W	
L4308	1-412-031-11	INDUCTOR CHIP 47UH		R4304	1-216-025-91	RES-CHIP 100 5% 1/10W	
L4309	1-412-031-11	INDUCTOR CHIP 47UH		R4305	1-216-025-91	RES-CHIP 100 5% 1/10W	
L4311	1-412-002-31	INDUCTOR CHIP 4.7UH		R4306	1-216-025-91	RES-CHIP 100 5% 1/10W	
		<TRANSISTOR>		R4307	1-216-025-91	RES-CHIP 100 5% 1/10W	
Q4301	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R4308	1-216-295-91	SHORT 0	
Q4302	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R4310	1-216-295-91	SHORT 0	
Q4303	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R		R4312	1-216-295-91	SHORT 0	
Q4304	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R4313	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
Q4307	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R4314	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
Q4308	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R4316	1-216-069-00	RES-CHIP 6.8K 5% 1/10W	
Q4310	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R4317	1-216-081-00	RES-CHIP 22K 5% 1/10W	
Q4315	1-801-806-11	TRANSISTOR DTC144EKA-T146		R4318	1-208-804-11	METAL CHIP 8.2K 0.5% 1/10W	
Q4316	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R4319	1-208-804-11	METAL CHIP 8.2K 0.5% 1/10W	
Q4317	8-729-900-53	TRANSISTOR DTC114EKA-T146		R4320	1-208-790-11	METAL CHIP 2.2K 0.5% 1/10W	
Q4319	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R4321	1-216-298-00	RES-CHIP 2.2 5% 1/10W	
Q4320	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R4323	1-208-814-91	METAL CHIP 22K 0.5% 1/10W	
Q4320	8-729-216-22	TRANSISTOR 2PB709AR-115		R4324	1-208-798-11	METAL CHIP 4.7K 0.5% 1/10W	
Q4321	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R4325	1-208-818-11	METAL CHIP 33K 0.5% 1/10W	
Q4322	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R4326	1-208-826-11	METAL CHIP 68K 0.5% 1/10W	
				R4327	1-208-822-11	METAL CHIP 47K 0.5% 1/10W	
				R4329	1-208-782-11	METAL CHIP 1K 0.5% 1/10W	
				R4330	1-216-089-91	RES-CHIP 47K 5% 1/10W	
				R4331	1-216-025-91	RES-CHIP 100 5% 1/10W	
				R4332	1-216-025-91	RES-CHIP 100 5% 1/10W	
				R4333	1-216-025-91	RES-CHIP 100 5% 1/10W	

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REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R4334	1-216-049-91	RES-CHIP	1K	5%	1/10W	R4519	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4335	1-216-025-91	RES-CHIP	100	5%	1/10W	R4520	1-216-025-91	RES-CHIP	100	5%	1/10W
R4336	1-216-025-91	RES-CHIP	100	5%	1/10W	R4521	1-216-025-91	RES-CHIP	100	5%	1/10W
R4337	1-216-025-91	RES-CHIP	100	5%	1/10W	R4800	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4338	1-216-041-00	RES-CHIP	470	5%	1/10W	R4801	1-216-049-91	RES-CHIP	1K	5%	1/10W
R4339	1-216-051-00	RES-CHIP	1.2K	5%	1/10W	R4802	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4341	1-216-295-91	SHORT	0			R4803	1-216-049-91	RES-CHIP	1K	5%	1/10W
R4343	1-216-025-91	RES-CHIP	100	5%	1/10W	R4804	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4344	1-216-025-91	RES-CHIP	100	5%	1/10W	R4805	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W
R4345	1-216-075-00	RES-CHIP	12K	5%	1/10W	R4806	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W
R4346	1-208-812-11	METAL CHIP	18K	0.5%	1/10W	R4807	1-216-049-91	RES-CHIP	1K	5%	1/10W
R4347	1-216-025-91	RES-CHIP	100	5%	1/10W	R4809	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4348	1-216-025-91	RES-CHIP	100	5%	1/10W	R4810	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R4349	1-216-041-00	RES-CHIP	470	5%	1/10W	R4811	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R4350	1-216-025-91	RES-CHIP	100	5%	1/10W	R4812	1-216-295-91	SHORT	0		
R4351	1-216-081-00	RES-CHIP	22K	5%	1/10W	R4813	1-216-089-91	RES-CHIP	47K	5%	1/10W
R4352	1-216-041-00	RES-CHIP	470	5%	1/10W	R4814	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R4353	1-216-051-00	RES-CHIP	1.2K	5%	1/10W	R4815	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R4354	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	R4816	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4355	1-216-049-91	RES-CHIP	1K	5%	1/10W	R4817	1-208-854-11	METAL CHIP	1M	0.5%	1/10W
R4356	1-216-049-91	RES-CHIP	1K	5%	1/10W	R4818	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4357	1-216-073-00	RES-CHIP	10K	5%	1/10W	R4819	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4358	1-216-071-00	RES-CHIP	8.2K	5%	1/10W	R4820	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4359	1-216-041-00	RES-CHIP	470	5%	1/10W	R4821	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4360	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R4822	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4361	1-216-133-00	RES-CHIP	3.3M	5%	1/10W	R4823	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4363	1-216-025-91	RES-CHIP	100	5%	1/10W	R4824	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4365	1-216-025-91	RES-CHIP	100	5%	1/10W	R4825	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4366	1-216-025-91	RES-CHIP	100	5%	1/10W	R4826	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4367	1-216-025-91	RES-CHIP	100	5%	1/10W	R4827	1-216-295-91	SHORT	0		
R4369	1-216-025-91	RES-CHIP	100	5%	1/10W	R4828	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4370	1-216-049-91	RES-CHIP	1K	5%	1/10W	R4829	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4372	1-216-049-91	RES-CHIP	1K	5%	1/10W	R4831	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R4373	1-216-295-91	SHORT	0			R4832	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R4374	1-216-025-91	RES-CHIP	100	5%	1/10W	R4833	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R4375	1-216-049-91	RES-CHIP	1K	5%	1/10W	R4834	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R4376	1-216-025-91	RES-CHIP	100	5%	1/10W	R4835	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R4377	1-216-049-91	RES-CHIP	1K	5%	1/10W	R4836	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R4380	1-216-073-00	RES-CHIP	10K	5%	1/10W	R4837	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R4381	1-208-854-11	METAL CHIP	1M	0.5%	1/10W	R4838	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R4382	1-216-073-00	RES-CHIP	10K	5%	1/10W	R4839	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R4383	1-216-079-00	RES-CHIP	18K	5%	1/10W	R4840	1-216-295-91	SHORT	0		
R4384	1-216-025-91	RES-CHIP	100	5%	1/10W	R4841	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4387	1-216-295-91	SHORT	0			R4842	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R4388	1-216-295-91	SHORT	0			R4843	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4389	1-216-295-91	SHORT	0			R4844	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R4395	1-216-295-91	SHORT	0			R4845	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R4396	1-216-295-91	SHORT	0			R4846	1-216-295-91	SHORT	0		
R4397	1-216-295-91	SHORT	0			R4847	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4399	1-247-807-31	CARBON	100	5%	1/4W	R4848	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4401	1-216-105-91	RES-CHIP	220K	5%	1/10W	R4849	1-216-095-00	RES-CHIP	82K	5%	1/10W
R4408	1-216-025-91	RES-CHIP	100	5%	1/10W	R4850	1-216-097-91	RES-CHIP	100K	5%	1/10W
R4409	1-216-073-00	RES-CHIP	10K	5%	1/10W	R4851	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R4410	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R4852	1-216-081-00	RES-CHIP	22K	5%	1/10W
R4411	1-216-073-00	RES-CHIP	10K	5%	1/10W	R4853	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R4412	1-216-097-91	RES-CHIP	100K	5%	1/10W	R4854	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R4518	1-216-025-91	RES-CHIP	100	5%	1/10W	R4855	1-216-077-91	RES-CHIP	15K	5%	1/10W
						R4856	1-216-057-00	RES-CHIP	2.2K	5%	1/10W

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



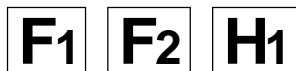
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R4857	1-208-810-11	METAL CHIP	15K 0.5% 1/10W			<DIODE>	
R4859	1-208-792-11	METAL CHIP	2.7K 0.5% 1/10W				
R4860	1-208-792-11	METAL CHIP	2.7K 0.5% 1/10W				
R4861	1-216-057-00	RES-CHIP	2.2K 5% 1/10W				
R4862	1-208-810-11	METAL CHIP	15K 0.5% 1/10W				
R4864	1-208-784-11	METAL CHIP	1.2K 0.5% 1/10W			<TRANSISTOR>	
R4865	1-208-782-11	METAL CHIP	1K 0.5% 1/10W				
R4866	1-216-089-91	RES-CHIP	47K 5% 1/10W				
R4869	1-208-814-91	METAL CHIP	22K 0.5% 1/10W				
R4871	1-208-830-11	METAL CHIP	100K 0.5% 1/10W				
R4872	1-216-057-00	RES-CHIP	2.2K 5% 1/10W				
R4874	1-216-295-91	SHORT	0				
R4875	1-216-057-00	RES-CHIP	2.2K 5% 1/10W			<RESISTOR>	
R4877	1-216-057-00	RES-CHIP	2.2K 5% 1/10W				
R4878	1-208-836-11	METAL CHIP	180K 0.5% 1/10W				
R4879	1-216-105-91	RES-CHIP	220K 5% 1/10W				
R4881	1-216-295-91	SHORT	0				
R4882	1-208-834-11	METAL CHIP	150K 0.5% 1/10W				
R4883	1-208-842-11	METAL CHIP	330K 0.5% 1/10W				
R4884	1-208-822-11	METAL CHIP	47K 0.5% 1/10W				
R4887	1-208-814-91	METAL CHIP	22K 0.5% 1/10W				
R4892	1-216-295-91	SHORT	0				
R4894	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R4895	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R4897	1-208-788-11	METAL CHIP	1.8K 0.5% 1/10W				
R4898	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W				
R4899	1-216-025-91	RES-CHIP	100 5% 1/10W				
R4908	1-216-049-91	RES-CHIP	1K 5% 1/10W				
R4909	1-216-065-91	RES-CHIP	4.7K 5% 1/10W				
R4910	1-216-065-91	RES-CHIP	4.7K 5% 1/10W				
R4911	1-208-818-11	METAL CHIP	33K 0.5% 1/10W				
R4912	1-208-806-11	METAL CHIP	10K 0.5% 1/10W				
R4913	1-208-806-11	METAL CHIP	10K 0.5% 1/10W				
R4914	1-216-057-00	RES-CHIP	2.2K 5% 1/10W				
		<CRYSTAL>					
X4300	1-767-127-11	VIBRATOR, CERAMIC					

	A-1343-864-A	E2 BOARD MOUNTED (Thailand)					
	A-1343-865-A	E2 BOARD MOUNTED (Malaysia)					
	A-1343-862-A	E2 BOARD MOUNTED (Taiwan)					

		<CAPACITOR>					
C4300	1-126-964-11	ELECT	10UF 20.00% 50V				
C4301	1-136-165-00	MYLAR	0.1UF 5.00% 50V				
		<CONNECTOR>					
CN4902*	1-564-507-11	PLUG, CONNECTOR 4P					
		<CONNECTOR>					
		<DIODE>					
D4302	8-719-911-19	DIODE 1SS119-25TD					
D4302	8-719-991-33	DIODE 1SS133T-77					
		<TRANSISTOR>					
Q4300	8-729-119-78	TRANSISTOR 2SC2785TP-HFE					
Q4302	8-729-119-76	TRANSISTOR 2SA1175TP-HFE					
Q4303	8-729-119-76	TRANSISTOR 2SA1175TP-HFE					
Q4304	8-729-119-78	TRANSISTOR 2SC2785TP-HFE					
Q4305	8-729-119-76	TRANSISTOR 2SA1175TP-HFE					
		<RESISTOR>					
R4300	1-247-807-31	CARBON	100 5% 1/4W				
R4301	1-249-421-11	CARBON	2.2K 5% 1/4W				
R4305	1-249-421-11	CARBON	2.2K 5% 1/4W				
R4306	1-249-437-11	CARBON	47K 5% 1/4W				
R4309	1-215-429-00	METAL	2.2K 1% 1/4W				
R4310	1-215-445-00	METAL	10K 1% 1/4W				
R4311	1-249-421-11	CARBON	2.2K 5% 1/4W				
R4313	1-215-459-00	METAL	39K 1% 1/4W				
R4314	1-249-421-11	CARBON	2.2K 5% 1/4W				
R4315	1-215-477-00	METAL	220K 1% 1/4W				

	* A-1241-415-A	F1 BOARD MOUNTED (Thailand)					
	* A-1241-412-A	F1 BOARD MOUNTED (Malaysia)					
	* A-1241-402-A	F1 BOARD MOUNTED (Taiwan)					

	1-533-223-11	HOLDER, FUSE					
	4-044-778-11	COVER, CAP TYPE CONDENSER					
		<CAPACITOR>					
C1601 Δ	1-104-708-51	MYLAR	0.47UF 20.00% 250V				
C1602 Δ	1-109-835-51	MYLAR	0.68UF 20.00% 250V				
C1603 Δ	1-117-703-51	CERAMIC	0.0047UF 99% 250V				
		<CONNECTOR>					
CN1601* Δ	1-580-843-11	PIN, CONNECTOR (POWER)					
CN1602* Δ	1-580-843-11	PIN, CONNECTOR (POWER)					
CN1603	1-695-915-11	TAB (CONTACT)					
CN1604	1-695-915-11	TAB (CONTACT)					
		<FUSE>					
F1601 Δ	1-532-299-11	FUSE, TIME-LAG 5A/250V					
		<FERRITE BEAD>					
FB1601	1-410-397-21	FERRITE	1.1UH				
FB1602	1-410-397-21	FERRITE	1.1UH				
FB1603	1-410-397-21	FERRITE	1.1UH				
FB1604	1-410-397-21	FERRITE	1.1UH				



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

REF. NO.	PART NO.	DESCRIPTION	REMARK		
		<RESISTOR>			
R1601 Δ	1-202-885-91	SOLID	1M	10%	1/2W
		<TRANSFORMER>			
T1601 Δ	1-433-900-11	TRANSFORMER, LINE FILTER			
T1602 Δ	1-433-900-11	TRANSFORMER, LINE FILTER			
		<VARISTOR>			
VDR161	1-803-830-11	VARISTOR (ERZV14D621)			

	* A-1241-416-A	F2 BOARD MOUNTED (Thailand)			
	* A-1241-413-A	F2 BOARD MOUNTED (Malaysia)			
	* A-1241-403-A	F2 BOARD MOUNTED (Taiwan)			

		<CONNECTOR>			
CN1651*	1-580-843-11	PIN, CONNECTOR (POWER)			
CN1652*	1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P			
		<SWITCH>			
S1651 Δ	1-571-433-31	SWITCH, PUSH (AC POWER)			

	* A-1372-784-A	H1 BOARD MOUNTED (Thailand)			
	* A-1372-779-A	H1 BOARD MOUNTED (Malaysia)			
	* A-1372-728-A	H1 BOARD MOUNTED (Taiwan)			

	* 4-055-304-11	HOLDER, LED			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C1910	1-104-664-11	ELECT	47UF	20.00%	16V
C1911	1-104-664-11	ELECT	47UF	20.00%	16V
C1912	1-102-824-00	CERAMIC	470PF	5.00%	50V
C5401	1-126-935-11	ELECT	470UF	20.00%	16V
C5402	1-137-194-81	MYLAR	0.47UF	5.00%	50V
C5403	1-126-935-11	ELECT	470UF	20.00%	6.3V
C5405	1-126-933-11	ELECT	100UF	20.00%	16V
C5406	1-126-935-11	ELECT	470UF	20.00%	6.3V
C5407	1-107-364-11	MYLAR	0.01UF	10.00%	200V
C5408	1-107-364-11	MYLAR	0.01UF	10.00%	200V
C5409	1-107-649-11	ELECT	2.2UF	20.00%	250V
C5410	1-130-471-00	MYLAR	0.001UF	5.00%	50V
C5411	1-130-471-00	MYLAR	0.001UF	5.00%	50V
C5412	1-126-935-11	ELECT	470UF	20.00%	16V
C5413	1-107-648-91	ELECT	100UF	20.00%	160V

REF. NO.	PART NO.	DESCRIPTION	REMARK		
C5415	1-104-999-11	MYLAR	0.1UF	10.00%	200V
C5418	1-107-638-11	ELECT	33UF	20.00%	160V
		<CONNECTOR>			
CN1901*	1-564-520-11	PLUG, CONNECTOR 5P			
CN5401*	1-770-723-11	CONNECTOR, BOARD TO BOARD 8P			
CN5402	1-764-334-11	PLUG, CONNECTOR 11P			
		<DIODE>			
D1906	8-719-045-19	DIODE SPB-26MVWF			
D5400	8-719-911-19	DIODE 1SS119-25TD			
D5401	8-719-510-02	DIODE D1NS4-TR			
D5402	8-719-911-19	DIODE 1SS119-25TD			
D5403	8-719-911-19	DIODE 1SS119-25TD			
D5404	8-719-911-19	DIODE 1SS119-25TD			
D5405	8-719-110-56	DIODE RD22ES-T1B			
D5406	8-719-110-56	DIODE RD22ES-T1B			
		<IC>			
IC1901	8-742-014-21	HYB IC SBX1981-51(21)			
		<COIL>			
L5400	1-412-525-31	INDUCTOR	10UH		
		<TRANSISTOR>			
Q1901	8-729-030-02	TRANSISTOR DTC144ESA-TP			
Q1902	8-729-030-02	TRANSISTOR DTC144ESA-TP			
Q5400	8-729-119-78	TRANSISTOR 2SC2785TP-HFE			
Q5401	8-729-119-78	TRANSISTOR 2SC2785TP-HFE			
Q5402	8-729-119-78	TRANSISTOR 2SC2785TP-HFE			
Q5403	8-729-119-78	TRANSISTOR 2SC2785TP-HFE			
Q5404	8-729-119-76	TRANSISTOR 2SA1175TP-HFE			
Q5405	8-729-119-76	TRANSISTOR 2SA1175TP-HFE			
Q5406	8-729-045-05	TRANSISTOR 2SA2005			
Q5407	8-729-045-04	TRANSISTOR 2SC5511			
		<RESISTOR>			
R1911	1-249-411-11	CARBON	330	5%	1/4W
R1913	1-249-429-11	CARBON	10K	5%	1/4W
R1914	1-249-411-11	CARBON	330	5%	1/4W
R1915	1-249-429-11	CARBON	10K	5%	1/4W
R1916	1-249-401-11	CARBON	47	5%	1/4W
R1917	1-247-807-31	CARBON	100	5%	1/4W
R1920	1-247-807-31	CARBON	100	5%	1/4W
R1921	1-247-807-31	CARBON	100	5%	1/4W
R5401	1-249-425-11	CARBON	4.7K	5%	1/4W
R5402	1-249-415-11	CARBON	680	5%	1/4W
R5403	1-247-739-11	CARBON	100	5%	1/2W
R5404	1-249-418-11	CARBON	1.2K	5%	1/4W
R5406	1-249-425-11	CARBON	4.7K	5%	1/4W
R5407	1-249-399-11	CARBON	33	5%	1/4W
R5408	1-247-807-31	CARBON	100	5%	1/4W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C8305	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V	C8359	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V
C8306	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V	C8360	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8307	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V	C8361	1-126-961-11	ELECT 2.2UF	20.00% 50V
C8308	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V	C8362	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8309	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V				
				C8363	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8310	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V	C8364	1-104-664-11	ELECT 47UF	20.00% 16V
C8311	1-164-346-11	CERAMIC CHIP 1UF	16V	C8365	1-104-664-11	ELECT 47UF	20.00% 16V
C8312	1-164-346-11	CERAMIC CHIP 1UF	16V	C8366	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8313	1-164-346-11	CERAMIC CHIP 1UF	16V	C8367	1-104-664-11	ELECT 47UF	20.00% 16V
C8314	1-164-346-11	CERAMIC CHIP 1UF	16V				
				C8368	1-104-664-11	ELECT 47UF	20.00% 16V
C8315	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V	C8369	1-104-664-11	ELECT 47UF	20.00% 16V
C8316	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V	C8370	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8317	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8371	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8318	1-164-346-11	CERAMIC CHIP 1UF	16V	C8372	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8319	1-164-346-11	CERAMIC CHIP 1UF	16V				
				C8373	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V
C8320	1-117-720-11	CERAMIC CHIP 4.7UF	10V	C8374	1-164-346-11	CERAMIC CHIP 1UF	16V
C8321	1-117-720-11	CERAMIC CHIP 4.7UF	10V	C8375	1-126-964-11	ELECT 10UF	20.00% 50V
C8322	1-164-346-11	CERAMIC CHIP 1UF	16V	C8376	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8323	1-164-346-11	CERAMIC CHIP 1UF	16V	C8381	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8324	1-117-720-11	CERAMIC CHIP 4.7UF	10V				
				C8382	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8325	1-126-935-11	ELECT 470UF	20.00% 16V	C8386	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8326	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	C8390	1-126-963-11	ELECT 4.7UF	20.00% 50V
C8327	1-164-346-11	CERAMIC CHIP 1UF	16V	C8391	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8328	1-164-346-11	CERAMIC CHIP 1UF	16V	C8392	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8329	1-163-249-11	CERAMIC CHIP 82PF	5.00% 50V				
				C8393	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8330	1-164-346-11	CERAMIC CHIP 1UF	16V	C8396	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C8331	1-164-346-11	CERAMIC CHIP 1UF	16V	C8399	1-126-961-11	ELECT 2.2UF	20.00% 50V
C8332	1-163-249-11	CERAMIC CHIP 82PF	5.00% 50V	C8401	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
				C8402	1-164-346-11	CERAMIC CHIP 1UF	16V
C8333	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V				
				C8403	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V
C8334	1-104-664-11	ELECT 47UF	20.00% 16V	C8406	1-104-664-11	ELECT 47UF	20.00% 16V
C8335	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8407	1-104-664-11	ELECT 47UF	20.00% 16V
C8336	1-104-664-11	ELECT 47UF	20.00% 16V	C8408	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8337	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8410	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8338	1-164-346-11	CERAMIC CHIP 1UF	16V				
				C8411	1-117-720-11	CERAMIC CHIP 4.7UF	10V
C8339	1-164-346-11	CERAMIC CHIP 1UF	16V	C8412	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8340	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	C8413	1-117-720-11	CERAMIC CHIP 4.7UF	10V
C8341	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	C8414	1-104-664-11	ELECT 47UF	20.00% 16V
C8342	1-126-964-11	ELECT 10UF	20.00% 50V	C8415	1-164-346-11	CERAMIC CHIP 1UF	16V
C8343	1-104-664-11	ELECT 47UF	20.00% 16V				
				C8416	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8344	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C8417	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V
				C8418	1-126-964-11	ELECT 10UF	20.00% 50V
				C8419	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8346	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C8424	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8347	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V				
				C8425	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C8348	1-126-968-11	ELECT 100UF	20.00% 16V	C8430	1-117-720-11	CERAMIC CHIP 4.7UF	10V
				C8431	1-163-243-11	CERAMIC CHIP 47PF	5.00% 50V
				C8432	1-163-239-11	CERAMIC CHIP 33PF	5.00% 50V
C8349	1-117-720-11	CERAMIC CHIP 4.7UF	10V	C8437	1-126-963-11	ELECT 4.7UF	20.00% 50V
C8352	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V				
C8353	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	C8438	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8354	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	C8439	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8355	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C8440	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
				C8441	1-164-346-11	CERAMIC CHIP 1UF	16V
C8356	1-164-346-11	CERAMIC CHIP 1UF	16V	C8442	1-117-720-11	CERAMIC CHIP 4.7UF	10V
C8357	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V				
				C8443	1-117-720-11	CERAMIC CHIP 4.7UF	10V
C8358	1-164-346-11	CERAMIC CHIP 1UF	16V	C8444	1-117-720-11	CERAMIC CHIP 4.7UF	10V
				C8445	1-164-346-11	CERAMIC CHIP 1UF	16V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C8446	1-104-664-11	ELECT	47UF	20.00%		<FERRITE BEAD>	
C8447	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%			
C8448	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V		
C8450	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V		
C8451	1-164-505-11	CERAMIC CHIP	2.2UF		16V	<FILTER>	
C8452	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V		
C8453	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V		
C8454	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V		
C8455	1-104-664-11	ELECT	47UF	20.00%	16V		
C8456	1-104-664-11	ELECT	47UF	20.00%	16V		
C8457	1-104-664-11	ELECT	47UF	20.00%	16V		
C8459	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V		
C8464	1-104-664-11	ELECT	47UF	20.00%	16V		
C8465	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V		
C8466	1-247-807-31	CARBON	100	5%	1/4W		
C8468	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V		
C8469	1-247-807-31	CARBON	100	5%	1/4W		
C8471	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V		
C8474	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V		
		<CONNECTOR>					
CN8301*	1-564-524-11	PLUG, CONNECTOR 9P					
CN8302	1-695-915-11	TAB (CONTACT)					
CN8304	1-793-498-11	CONNECTOR, BOARD TO BOARD 50P					
		<DIODE>					
D8101	8-719-073-01	DIODE MA111-TX					
D8102	1-216-295-91	SHORT	0				
D8301	8-719-158-35	DIODE RD9.1SB-T1					
D8302	8-719-158-35	DIODE RD9.1SB-T1					
D8303	8-719-158-35	DIODE RD9.1SB-T1					
D8304	8-719-158-35	DIODE RD9.1SB-T1					
D8305	8-719-158-35	DIODE RD9.1SB-T1					
D8306	8-719-158-35	DIODE RD9.1SB-T1					
D8307	8-719-158-35	DIODE RD9.1SB-T1					
D8308	8-719-158-35	DIODE RD9.1SB-T1					
D8309	8-719-158-35	DIODE RD9.1SB-T1					
D8310	8-719-158-35	DIODE RD9.1SB-T1					
D8311	8-719-158-35	DIODE RD9.1SB-T1					
D8312	8-719-158-35	DIODE RD9.1SB-T1					
D8313	8-719-158-35	DIODE RD9.1SB-T1					
D8314	8-719-158-35	DIODE RD9.1SB-T1					
D8315	8-719-067-40	DIODE STZ6.8N-T146					
D8316	8-719-067-40	DIODE STZ6.8N-T146					
D8317	8-719-067-40	DIODE STZ6.8N-T146					
D8318	8-719-158-35	DIODE RD9.1SB-T1					
D8319	8-719-158-35	DIODE RD9.1SB-T1					
D8320	8-719-158-35	DIODE RD9.1SB-T1					
D8321	8-719-158-35	DIODE RD9.1SB-T1					
D8322	8-719-158-35	DIODE RD9.1SB-T1					
D8323	8-719-158-35	DIODE RD9.1SB-T1					
D8324	8-719-158-35	DIODE RD9.1SB-T1					
D8325	8-719-158-35	DIODE RD9.1SB-T1					
D8331	8-719-041-97	DIODE MA113-(TX)					
FB8101	1-414-598-11	INDUCTOR CHIP	0UH				
FL8301	1-236-071-11	ENCAPSULATED COMPONENT					
FL8303	1-236-071-11	ENCAPSULATED COMPONENT					
FL8304	1-236-071-11	ENCAPSULATED COMPONENT					
FL8305	1-236-071-11	ENCAPSULATED COMPONENT					
FL8307	1-236-071-11	ENCAPSULATED COMPONENT					
FL8308	1-236-071-11	ENCAPSULATED COMPONENT					
FL8309	1-236-071-11	ENCAPSULATED COMPONENT					
FL8311	1-236-071-11	ENCAPSULATED COMPONENT					
FL8312	1-236-071-11	ENCAPSULATED COMPONENT					
FL8313	1-236-071-11	ENCAPSULATED COMPONENT					
FL8314	1-233-877-11	FILTER, LOW PASS					
FL8315	1-233-504-21	FILTER, LOW PASS					
FL8316	1-233-504-21	FILTER, LOW PASS					
		<IC>					
IC8302	8-752-080-04	IC CXA2069Q					
IC8304	8-759-576-72	IC LF50CDT-TR					
IC8305	8-759-576-74	IC LF90CDT-TR					
IC8306	8-752-094-46	IC CXA2123AQ					
IC8308	8-752-094-46	IC CXA2123AQ					
IC8309	8-759-337-26	IC MM1115XFBE					
IC8310	8-759-572-04	IC TDA9178T/N1.118					
IC8311	8-759-485-79	IC TC7SET08FU(TE85R)					
IC8312	8-759-485-79	IC TC7SET08FU(TE85R)					
IC8314	8-742-175-00	HYB IC SBX3005-11 (KV-ES34M61)					
		<JACK>					
J8106	1-793-787-11	JACK BLOCK, PIN 1P					
J8301	1-774-748-11	TERMINAL BLOCK, S					
J8302	1-774-746-11	JACK BLOCK, PIN					
J8303	1-774-746-11	JACK BLOCK, PIN					
J8304	1-774-746-11	JACK BLOCK, PIN					
J8305	1-695-444-11	PIN JACK BLOCK 3P					
J8307	1-565-838-11	JACK BLOCK, PIN 2P					
		<CHIP CONDUCTOR>					
JR8301	1-216-295-91	SHORT	0				
JR8302	1-216-295-91	SHORT	0				
JR8303	1-216-295-91	SHORT	0 (KV-ES34M61)				
JR8304	1-216-295-91	SHORT	0 (KV-ES34M61)				
		<COIL>					
L8302	1-414-196-41	INDUCTOR	47UH				
L8303	1-414-196-41	INDUCTOR	47UH				
L8304	1-414-196-41	INDUCTOR	47UH				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<TRANSISTOR>					
Q8301	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		Q8466	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q8302	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		Q8512	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
Q8303	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L				<RESISTOR>	
Q8304	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L					
Q8305	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R8101	1-216-022-00	RES-CHIP	75 5% 1/10W
Q8306	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8208	1-216-295-91	SHORT	0
Q8307	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8209	1-216-295-91	SHORT	0
Q8308	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8301	1-216-041-00	RES-CHIP	470 5% 1/10W
Q8309	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8302	1-216-041-00	RES-CHIP	470 5% 1/10W
Q8310	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8303	1-216-021-00	RES-CHIP	68 5% 1/10W
Q8312	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8304	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q8313	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L (KV-ES34M61)		R8305	1-216-113-00	RES-CHIP	470K 5% 1/10W
Q8319	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R8306	1-216-022-00	RES-CHIP	75 5% 1/10W
Q8320	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R8307	1-216-022-00	RES-CHIP	75 5% 1/10W
Q8321	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R8308	1-216-105-91	RES-CHIP	220K 5% 1/10W
Q8322	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R8309	1-216-105-91	RES-CHIP	220K 5% 1/10W
Q8323	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R8310	1-216-022-00	RES-CHIP	75 5% 1/10W
Q8324	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R8311	1-216-105-91	RES-CHIP	220K 5% 1/10W
Q8326	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8312	1-216-105-91	RES-CHIP	220K 5% 1/10W
Q8327	1-801-806-11	TRANSISTOR DTC144EKA-T146		R8313	1-216-022-00	RES-CHIP	75 5% 1/10W
Q8328	1-801-806-11	TRANSISTOR DTC144EKA-T146		R8314	1-216-105-91	RES-CHIP	220K 5% 1/10W
Q8329	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8315	1-216-105-91	RES-CHIP	220K 5% 1/10W
Q8330	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8316	1-216-113-00	RES-CHIP	470K 5% 1/10W
Q8331	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8317	1-216-022-00	RES-CHIP	75 5% 1/10W
Q8332	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8318	1-216-022-00	RES-CHIP	75 5% 1/10W
Q8333	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8319	1-216-022-00	RES-CHIP	75 5% 1/10W
Q8334	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8320	1-216-105-91	RES-CHIP	220K 5% 1/10W
Q8335	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8321	1-216-105-91	RES-CHIP	220K 5% 1/10W
Q8336	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8322	1-216-022-00	RES-CHIP	75 5% 1/10W
Q8337	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8323	1-216-295-91	SHORT	0
Q8342	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L (KV-ES34M61)		R8324	1-216-295-91	SHORT	0
Q8343	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR (KV-ES34M61)		R8325	1-216-295-91	SHORT	0
Q8344	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R8326	1-216-113-00	RES-CHIP	470K 5% 1/10W
Q8345	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8327	1-216-295-91	SHORT	0
Q8346	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R8328	1-216-113-00	RES-CHIP	470K 5% 1/10W
Q8347	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8329	1-216-113-00	RES-CHIP	470K 5% 1/10W
Q8348	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R8330	1-216-022-00	RES-CHIP	75 5% 1/10W
Q8349	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8331	1-216-295-91	SHORT	0
Q8350	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R8332	1-216-295-91	SHORT	0
Q8351	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8333	1-216-295-91	SHORT	0
Q8352	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R8334	1-216-295-91	SHORT	0
Q8353	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R8335	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q8354	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R8336	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q8355	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R8337	1-216-022-00	RES-CHIP	75 5% 1/10W
Q8358	1-801-806-11	TRANSISTOR DTC144EKA-T146		R8338	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q8359	1-801-806-11	TRANSISTOR DTC144EKA-T146		R8339	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q8360	1-801-806-11	TRANSISTOR DTC144EKA-T146		R8340	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q8361	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8341	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q8362	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8342	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q8363	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8343	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q8364	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R8344	1-216-022-00	RES-CHIP	75 5% 1/10W
Q8464	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8345	1-216-033-00	RES-CHIP	220 5% 1/10W
Q8465	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		R8346	1-216-031-00	RES-CHIP	180 5% 1/10W
				R8347	1-216-025-91	RES-CHIP	100 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R8348	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R8407	1-216-033-00	RES-CHIP	220	5%	1/10W
R8349	1-216-049-91	RES-CHIP	1K	5%	1/10W	R8408	1-216-033-00	RES-CHIP	220	5%	1/10W
R8350	1-216-049-91	RES-CHIP	1K	5%	1/10W	R8409	1-216-295-91	SHORT	0		
R8351	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R8410	1-216-295-91	SHORT	0		
R8352	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R8411	1-216-083-00	RES-CHIP	27K	5%	1/10W
R8353	1-216-017-91	RES-CHIP	47	5%	1/10W	R8412	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8354	1-216-017-91	RES-CHIP (KV-ES34M61)	47	5%	1/10W			(KV-ES34M61)			
R8355	1-216-295-91	SHORT	0			R8413	1-216-041-00	RES-CHIP (KV-ES34M61)	470	5%	1/10W
R8356	1-216-295-91	SHORT	0			R8414	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W
R8357	1-216-017-91	RES-CHIP	47	5%	1/10W	R8415	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8358	1-216-017-91	RES-CHIP	47	5%	1/10W	R8417	1-216-025-91	RES-CHIP	100	5%	1/10W
R8361	1-216-017-91	RES-CHIP	47	5%	1/10W	R8418	1-216-025-91	RES-CHIP	100	5%	1/10W
R8362	1-216-017-91	RES-CHIP	47	5%	1/10W	R8419	1-216-017-91	RES-CHIP	47	5%	1/10W
R8363	1-208-773-11	METAL CHIP	430	0.5%	1/10W	R8420	1-216-017-91	RES-CHIP	47	5%	1/10W
R8364	1-216-041-00	RES-CHIP	470	5%	1/10W	R8421	1-216-295-91	SHORT	0		
R8365	1-216-049-91	RES-CHIP	1K	5%	1/10W	R8422	1-216-295-91	SHORT	0		
R8366	1-216-049-91	RES-CHIP	1K	5%	1/10W	R8424	1-216-083-00	RES-CHIP	27K	5%	1/10W
R8367	1-216-041-00	RES-CHIP	470	5%	1/10W	R8425	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8369	1-216-041-00	RES-CHIP	470	5%	1/10W	R8426	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W
R8370	1-216-025-91	RES-CHIP	100	5%	1/10W	R8428	1-216-295-91	SHORT	0		
R8372	1-216-295-91	SHORT	0			R8429	1-216-295-91	SHORT	0		
R8373	1-216-295-91	SHORT	0			R8430	1-216-295-91	SHORT	0		
R8374	1-216-039-00	RES-CHIP	390	5%	1/10W	R8431	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8375	1-216-041-00	RES-CHIP	470	5%	1/10W	R8432	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8376	1-216-049-91	RES-CHIP	1K	5%	1/10W	R8433	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8377	1-216-025-91	RES-CHIP	100	5%	1/10W	R8434	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8378	1-216-033-00	RES-CHIP	220	5%	1/10W	R8435	1-216-295-91	SHORT	0		
R8379	1-216-033-00	RES-CHIP	220	5%	1/10W	R8436	1-216-017-91	RES-CHIP	47	5%	1/10W
R8380	1-216-025-91	RES-CHIP	100	5%	1/10W	R8440	1-216-295-91	SHORT	0		
R8381	1-216-025-91	RES-CHIP	100	5%	1/10W	R8441	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8382	1-216-033-00	RES-CHIP	220	5%	1/10W	R8442	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8383	1-216-033-00	RES-CHIP	220	5%	1/10W	R8443	1-216-025-91	RES-CHIP	100	5%	1/10W
R8384	1-216-025-91	RES-CHIP	100	5%	1/10W	R8444	1-216-025-91	RES-CHIP	100	5%	1/10W
R8385	1-216-025-91	RES-CHIP	100	5%	1/10W	R8445	1-216-017-91	RES-CHIP	47	5%	1/10W
R8386	1-216-025-91	RES-CHIP	100	5%	1/10W	R8446	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8388	1-216-031-00	RES-CHIP	180	5%	1/10W	R8447	1-216-025-91	RES-CHIP	100	5%	1/10W
R8389	1-216-033-00	RES-CHIP	220	5%	1/10W	R8448	1-216-025-91	RES-CHIP	100	5%	1/10W
R8390	1-208-773-11	METAL CHIP (KV-ES34M61)	430	0.5%	1/10W	R8449	1-216-025-91	RES-CHIP	100	5%	1/10W
						R8450	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8391	1-216-041-00	RES-CHIP (KV-ES34M61)	470	5%	1/10W	R8451	1-216-097-91	RES-CHIP	100K	5%	1/10W
R8393	1-216-037-00	RES-CHIP (KV-ES34M61)	330	5%	1/10W	R8452	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8394	1-216-041-00	RES-CHIP (KV-ES34M61)	470	5%	1/10W	R8453	1-216-097-91	RES-CHIP	100K	5%	1/10W
						R8454	1-216-089-91	RES-CHIP	47K	5%	1/10W
						R8455	1-216-097-91	RES-CHIP	100K	5%	1/10W
R8395	1-216-033-00	RES-CHIP	220	5%	1/10W	R8456	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8396	1-216-033-00	RES-CHIP	220	5%	1/10W	R8457	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8398	1-216-025-91	RES-CHIP (KV-ES34M61)	100	5%	1/10W	R8458	1-216-049-91	RES-CHIP	1K	5%	1/10W
R8399	1-216-025-91	RES-CHIP	100	5%	1/10W	R8459	1-216-025-91	RES-CHIP	100	5%	1/10W
						R8460	1-216-025-91	RES-CHIP	100	5%	1/10W
R8400	1-216-025-91	RES-CHIP	100	5%	1/10W	R8461	1-216-025-91	RES-CHIP	100	5%	1/10W
R8401	1-216-081-00	RES-CHIP (KV-ES34M61)	22K	5%	1/10W	R8462	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8404	1-216-033-00	RES-CHIP (KV-ES34M61)	220	5%	1/10W	R8463	1-216-097-91	RES-CHIP	100K	5%	1/10W
						R8464	1-216-025-91	RES-CHIP	100	5%	1/10W
R8405	1-216-033-00	RES-CHIP	220	5%	1/10W	R8465	1-216-025-91	RES-CHIP	100	5%	1/10W
R8406	1-216-033-00	RES-CHIP	220	5%	1/10W	R8466	1-216-025-91	RES-CHIP	100	5%	1/10W
						R8467	1-216-041-00	RES-CHIP	470	5%	1/10W
						R8468	1-216-041-00	RES-CHIP	470	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1806	1-163-105-00	CERAMIC CHIP 33PF	5.00% 50V	R1807	1-208-816-11	METAL CHIP 27K	0.5% 1/10W
C1807	1-163-105-00	CERAMIC CHIP 33PF	5.00% 50V	R1808	1-216-025-91	RES-CHIP 100	5% 1/10W
C1808	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	R1809	1-208-758-11	METAL CHIP 100	0.5% 1/10W
C1809	1-104-665-11	ELECT 100UF	20.00% 16V	R1811	1-208-758-11	METAL CHIP 100	0.5% 1/10W
C1810	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V	R1812	1-216-295-91	SHORT 0	
C1811	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	R1813	1-208-758-11	METAL CHIP 100	0.5% 1/10W
C1812	1-104-665-11	ELECT 100UF	20.00% 16V	R1814	1-216-295-91	SHORT 0	
C1813	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	R1815	1-216-295-91	SHORT 0	
C1815	1-163-243-11	CERAMIC CHIP 47PF	5.00% 50V	R1816	1-216-295-91	SHORT 0	
C1819	1-164-005-11	CERAMIC CHIP 0.47UF	25V	R1820	1-216-121-91	RES-CHIP 1M	5% 1/10W
C1821	1-163-001-11	CERAMIC CHIP 220PF	10.00% 50V	R1821	1-216-041-00	RES-CHIP 470	5% 1/10W
C1822	1-104-666-11	ELECT 220UF	20.00% 16V	R1822	1-216-025-91	RES-CHIP 100	5% 1/10W
C1824	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	R1823	1-216-089-91	RES-CHIP 47K	5% 1/10W
C1826	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	R1824	1-216-049-91	RES-CHIP 1K	5% 1/10W
C1827	1-104-666-11	ELECT 220UF	20.00% 16V	R1825	1-216-041-00	RES-CHIP 470	5% 1/10W
C1828	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	R1826	1-216-049-91	RES-CHIP 1K	5% 1/10W
C1829	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	R1827	1-216-037-00	RES-CHIP 330	5% 1/10W
<CONNECTOR>				R1829	1-216-053-00	RES-CHIP 1.5K	5% 1/10W
CN1801	1-793-496-11	CONNECTOR, BOARD TO BOARD 20P		R1830	1-216-063-91	RES-CHIP 3.9K	5% 1/10W
<DIODE>				R1831	1-216-073-00	RES-CHIP 10K	5% 1/10W
D1802	8-719-073-01	DIODE MA111-TX		R1832	1-215-859-00	METAL OXIDE 22	5% 1W
D1803	8-719-073-01	DIODE MA111-TX		R1833	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
D1809	8-719-073-01	DIODE MA111-TX		R1834	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
D1810	8-719-073-01	DIODE MA111-TX		R1835	1-216-049-91	RES-CHIP 1K	5% 1/10W
<FERRITE BEAD>				R1836	1-216-049-91	RES-CHIP 1K	5% 1/10W
FB1801	1-410-397-21	FERRITE 1.1UH		R1837	1-216-049-91	RES-CHIP 1K	5% 1/10W
FB1802	1-410-397-21	FERRITE 1.1UH		R1838	1-216-025-91	RES-CHIP 100	5% 1/10W
FB1803	1-410-397-21	FERRITE 1.1UH		R1839	1-216-025-91	RES-CHIP 100	5% 1/10W
FB1804	1-410-397-21	FERRITE 1.1UH		R1840	1-216-025-91	RES-CHIP 100	5% 1/10W
FB1805	1-410-397-21	FERRITE 1.1UH		R1841	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
<IC>				<CRYSTAL>			
IC1801	8-759-652-13	IC SDA5254-2B006		X1801	1-781-685-21	VIBRATOR, CRYSTAL	
IC1802	8-759-239-14	IC TA78L05S-TPE2		*****			
IC1803	8-759-042-02	IC S-80743AL-A7-T1		* A-1342-536-A	VM BOARD MOUNTED (Thailand)		
<COIL>				* A-1342-529-A	VM BOARD MOUNTED (Malaysia)		
L1801	1-408-602-31	INDUCTOR 8.2UH		* A-1342-515-A	VM BOARD MOUNTED (Taiwan)		
<TRANSISTOR>				*****			
Q1802	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		<CAPACITOR>			
Q1803	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L		C1910	1-104-664-11	ELECT 47UF	20.00% 16V
Q1804	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		C1911	1-104-664-11	ELECT 47UF	20.00% 16V
Q1805	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		C1912	1-102-824-00	CERAMIC 470PF	5.00% 50V
Q1806	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		C5401	1-126-935-11	ELECT 470UF	20.00% 16V
<RESISTOR>				C5402	1-137-194-81	MYLAR 0.47UF	5.00% 50V
R1804	1-208-792-11	METAL CHIP 2.7K	0.5% 1/10W	C5403	1-126-935-11	ELECT 470UF	20.00% 6.3V
R1805	1-216-025-91	RES-CHIP 100	5% 1/10W	C5405	1-126-933-11	ELECT 100UF	20.00% 16V
R1806	1-216-025-91	RES-CHIP 100	5% 1/10W	C5406	1-126-935-11	ELECT 470UF	20.00% 6.3V
				C5407	1-107-364-11	MYLAR 0.01UF	10.00% 200V
				C5408	1-107-364-11	MYLAR 0.01UF	10.00% 200V
				C5409	1-107-649-11	ELECT 2.2UF	20.00% 250V
				C5410	1-130-471-00	MYLAR 0.001UF	5.00% 50V
				C5411	1-130-471-00	MYLAR 0.001UF	5.00% 50V



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

REF. NO.	PART NO.	DESCRIPTION	REMARK		
C5412	1-126-935-11	ELECT	470UF	20.00%	16V
C5413	1-107-648-91	ELECT	100UF	20.00%	160V
C5415	1-104-999-11	MYLAR	0.1UF	10.00%	200V
C5418	1-107-638-11	ELECT	33UF	20.00%	160V
<CONNECTOR>					
CN1901*	1-564-520-11	PLUG, CONNECTOR 5P			
CN5401*	1-770-723-11	CONNECTOR, BOARD TO BOARD 8P			
CN5402	1-764-334-11	PLUG, CONNECTOR 11P			
<DIODE>					
D1906	8-719-045-19	DIODE SPB-26MVWF			
D5400	8-719-911-19	DIODE 1SS119-25TD			
D5401	8-719-510-02	DIODE D1NS4-TR			
D5402	8-719-911-19	DIODE 1SS119-25TD			
D5403	8-719-911-19	DIODE 1SS119-25TD			
D5404	8-719-911-19	DIODE 1SS119-25TD			
D5405	8-719-110-56	DIODE RD22ES-T1B			
D5406	8-719-110-56	DIODE RD22ES-T1B			
<IC>					
IC1901	8-742-014-21	HYB IC SBX1981-51(21)			
<COIL>					
L5400	1-412-525-31	INDUCTOR	10UH		
<TRANSISTOR>					
Q1901	8-729-030-02	TRANSISTOR DTC144ESA-TP			
Q1902	8-729-030-02	TRANSISTOR DTC144ESA-TP			
Q5400	8-729-119-78	TRANSISTOR 2SC2785TP-HFE			
Q5401	8-729-119-78	TRANSISTOR 2SC2785TP-HFE			
Q5402	8-729-119-78	TRANSISTOR 2SC2785TP-HFE			
Q5403	8-729-119-78	TRANSISTOR 2SC2785TP-HFE			
Q5404	8-729-119-76	TRANSISTOR 2SA1175TP-HFE			
Q5405	8-729-119-76	TRANSISTOR 2SA1175TP-HFE			
Q5406	8-729-045-05	TRANSISTOR 2SA2005			
Q5407	8-729-045-04	TRANSISTOR 2SC5511			
<RESISTOR>					
R1911	1-249-411-11	CARBON	330	5%	1/4W
R1913	1-249-429-11	CARBON	10K	5%	1/4W
R1914	1-249-411-11	CARBON	330	5%	1/4W
R1915	1-249-429-11	CARBON	10K	5%	1/4W
R1916	1-249-401-11	CARBON	47	5%	1/4W
R1917	1-247-807-31	CARBON	100	5%	1/4W
R1920	1-247-807-31	CARBON	100	5%	1/4W
R1921	1-247-807-31	CARBON	100	5%	1/4W
R5401	1-249-425-11	CARBON	4.7K	5%	1/4W
R5402	1-249-415-11	CARBON	680	5%	1/4W
R5403	1-247-739-11	CARBON	100	5%	1/2W
R5404	1-249-418-11	CARBON	1.2K	5%	1/4W
R5406	1-249-425-11	CARBON	4.7K	5%	1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK		
R5407	1-249-399-11	CARBON	33	5%	1/4W
R5408	1-247-807-31	CARBON	100	5%	1/4W
R5409	1-247-815-91	CARBON	220	5%	1/4W
R5410	1-249-401-11	CARBON	47	5%	1/4W
R5411	1-249-401-11	CARBON	47	5%	1/4W
R5412	1-249-429-11	CARBON	10K	5%	1/4W
R5413	1-249-414-11	CARBON	560	5%	1/4W
R5414	1-249-432-11	CARBON	18K	5%	1/4W
R5415	1-247-739-11	CARBON	100	5%	1/2W
R5416	1-249-385-11	CARBON	2.2	5%	1/4W
R5417	1-249-432-11	CARBON	18K	5%	1/4W
R5418	1-249-414-11	CARBON	560	5%	1/4W
R5419	1-249-421-11	CARBON	2.2K	5%	1/4W
R5420	1-249-421-11	CARBON	2.2K	5%	1/4W
R5421	1-249-385-11	CARBON	2.2	5%	1/4W
R5422	1-249-405-11	CARBON	100	5%	1/4W
R5423	1-215-915-11	METAL OXIDE	470	5%	3W
R5424	1-249-395-11	CARBON	15	5%	1/4W
R5425	1-249-401-11	CARBON	47	5%	1/4W
R5427	1-249-395-11	CARBON	15	5%	1/4W

MISCELLANEOUS

\triangle 1-419-293-11 COIL, DEGAUSSING (KV-ES34M61)

\triangle 1-419-554-11 COIL, DEGAUSSING (KV-ES34N90)

1-452-094-00 CIRCULAR DISC MAGNET B

1-452-032-00 MAGNET,DISC

1-452-896-11 COIL, NA ROTATION (RT200)

1-505-473-11 SPEAKER (12CM)

1-529-562-11 SPEAKER (7X4CM)

1-543-827-31 CLAMP, SLEEVE FERRITE

\triangle 1-792-065-11 CORD, FILTER WITH POWER (Thailand)

\triangle 1-791-739-11 CORD, POWER (WITH CONNECTOR) (Malaysia)

\triangle 1-792-065-11 CORD, POWER (WITH CONNECTOR) (Taiwan)

1-790-082-11 CABLE, RF (KV-ES34M61)

1-792-458-11 CABLE, RF (KV-ES34N90)

1-419-295-11 COIL, LANDING CORRECTION

1-900-251-82 LEAD ASSY, G2 (Location CN6810 - CN9007(1))

\triangle 8-735-063-05 PICTURE TUBE (A80LNH10X) (KV-ES34M61)

\triangle 8-735-062-05 PICTURE TUBE (A80LNH10X) (KV-ES34N90)

8-453-007-31 NA324-M3

\triangle 8-451-500-31 DEFLECTION YOKE (Y34RSC2-M3)

<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>	<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
ACCESSORIES AND PACKING MATERIALS							

A-1028-302-A		PACKING GROUP (SET) (Malaysia)		4-076-297-01		CUSHION (LOWER) (ASSY) (Thailand)	
A-1028-309-A		PACKING GROUP (SET) (Thailand)		* 4-075-377-01		CUSHION (UPPER)(ASSY) (Malaysia)	
A-1028-325-A		PACKING GROUP (Taiwan)		* 4-075-378-01		CUSHION (LOWER)(ASSY) (Malaysia)	
1-765-167-21		CABLE, COAXIAL (WITH (F) PLUG) (Taiwan)		* 4-074-690-01		CUSHION (UPPER) (ASSY) (Taiwan)	
1-769-175-21		CABLE, ANTENNA (WITH FILTER) (Malaysia, Thailand)		* 4-074-691-01		CUSHION (LOWER) (ASSY) (Taiwan)	
3-867-890-11		MANUAL, INSTRUCTION (Thailand)		4-076-298-01		CUSHION (LEFT UPPER)	
4-074-990-11		MANUAL, INSTRUCTION (Malaysia)		4-076-299-01		CUSHION (RIGHT UPPER)	
3-867-756-72		MANUAL, INSTRUCTION (Taiwan)		4-076-300-01		CUSHION (LEFT LOWER)	
3-701-910-00		SCREW, SPECIAL (DIA. 3.8X20)		4-076-301-01		CUSHION (RIGHT LOWER)	
* 4-046-772-01		BAG PROTECTION (Malaysia)		4-392-003-01		BAND, HOLDING (Taiwan)	
* 4-054-764-01		BAG,PROTECTION (Thailand)		4-392-003-11		BAND, HOLDING (Malaysia)	
* 4-384-101-21		BAG PROTECTION (Taiwan)		4-392-003-21		BAND, HOLDING (Thailand)	
4-065-210-01		JOINT (Malaysia, Thailand)		4-059-705-01		CLIP (Thailand)	
* 4-396-077-01		JOINT (Taiwan)		4-392-004-11		CLIP (Malaysia)	
* 4-069-026-01		TRAY (Thailand)		4-392-004-01		CLIP (Taiwan)	
* 4-067-103-11		TRAY (Taiwan)		*****			
* 4-075-687-01		INDIVIDUAL CARTON (Thailand)		REMOTE COMMANDER			
* 4-075-334-01		INDIVIDUAL CARTON (Malaysia)		*****			
* 4-075-620-01		INDIVIDUAL CARTON (Taiwan)		1-418-566-11		REMOTE COMMANDER (RM-916) (KV-ES34M61)	
4-076-294-01		BOARD, TOP (Thailand)		1-418-824-11		REMOTE COMMANDER (RM-958) (KV-ES34N90)	
4-076-295-01		CUSHION (Thailand)		4-074-721-01		BATTERY COVER, REMOTE COMMANDER	
4-076-296-01		CUSHION (UPPER) (ASSY) (Thailand)					

