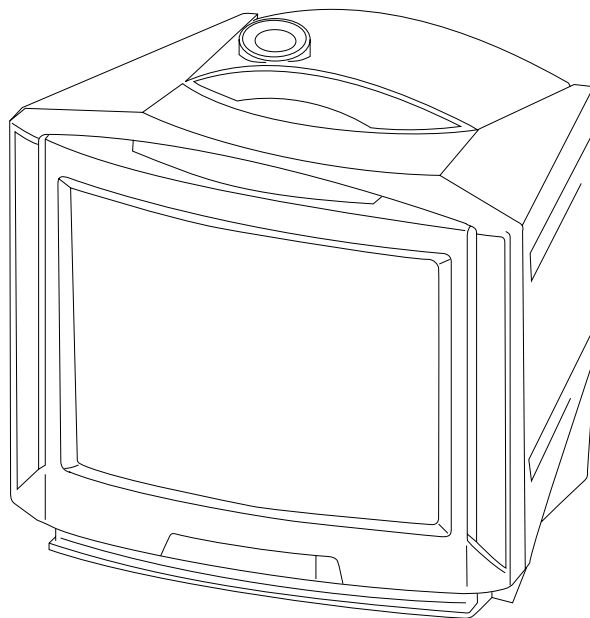


SERVICE MANUAL

BG-1L CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
<i>KV-LX34M50</i>	<i>RM-871</i>	<i>Indonesia</i>	<i>SCC-K67D-A</i>

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
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TRINITRON[®] COLOR TV
SONY[®]

SPECIFICATIONS

		Note
Power requirements	110-240 V AC, 50/60 Hz	
Power consumption (W)	Indicated on the rear of TV	
Television system	B/G, I, D/K, M	
Color system	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58	
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)	5W + 5W + 15W (3D WOOFER)	
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
🎧 (Headphone)	Output: 1	Minijack
Picture tube	34 in.	
Tube size (cm)	86	Measured diagonally
Screen size (cm)	80	Measured diagonally
Dimension (w/h/d, mm)	950 × 662 × 593	
Mass (kg)	77	

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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SECTION 1 GENERAL

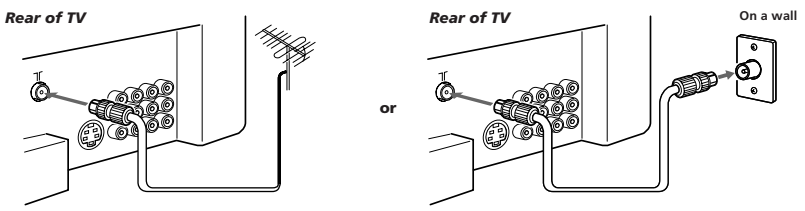
The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in this manual.

Getting Started

Connections

Connecting a VHF antenna or a combination VHF/UHF antenna — 75-ohm coaxial cable (round)

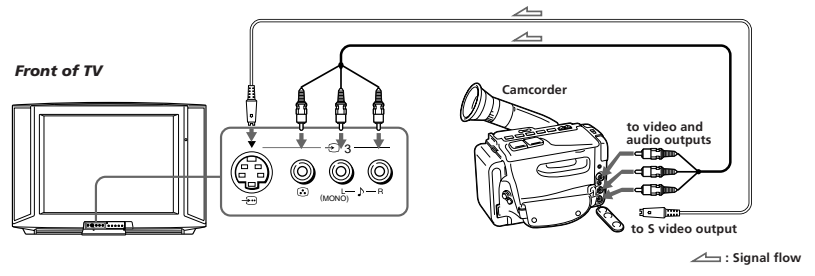
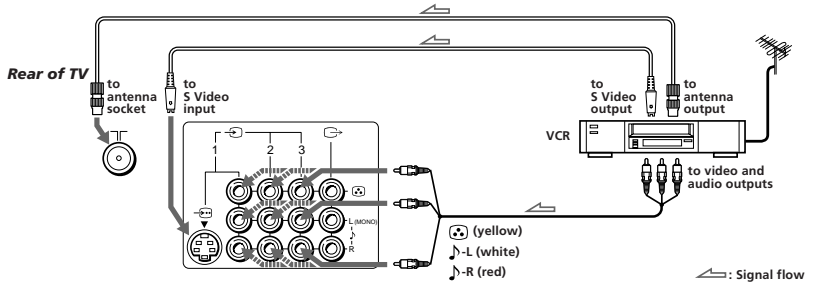
Attach an optional IEC antenna connector to the 75-ohm coaxial cable. Plug the connector into the Υ (antenna) socket at the rear of the TV.



Connecting optional equipment

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

Connecting video equipment using video input jacks



When connecting a monaural VCR

Connect the yellow plug to VIDEO and the black plug to L (AUDIO-L MONO).

When connecting video game equipment

Connect video game equipment to the VIDEO 3 INPUT jacks at the front of your TV or the VIDEO IN jacks at the rear of your TV.

When connecting a VCR to the antenna terminal

Preset the signal output from the VCR to the program position 0.

When connecting video equipment to the VIDEO 3 (VIDEO 3 INPUT) jacks or the VIDEO IN jacks

Do not connect video equipment to the VIDEO 3 INPUT jacks at the front and the VIDEO IN jacks at the rear of your TV simultaneously; otherwise the picture will not be displayed properly on the screen.

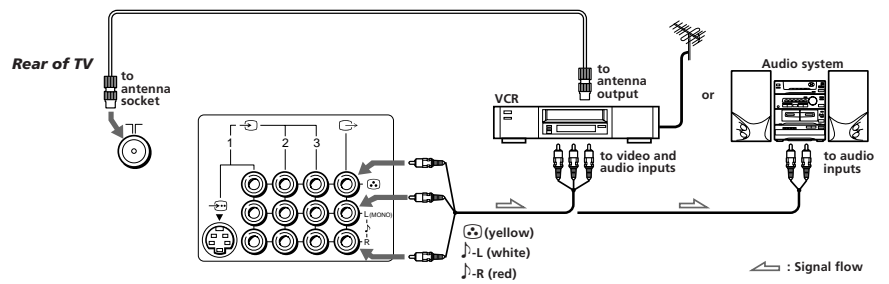
If both S Video and video signals are input simultaneously

The S Video input signal is selected. To view a video input signal, disconnect the S Video connection.

Note on the video input

When no signal is input, the screen becomes blue.

Connecting audio/video equipment using MONITOR/TV OUT jacks

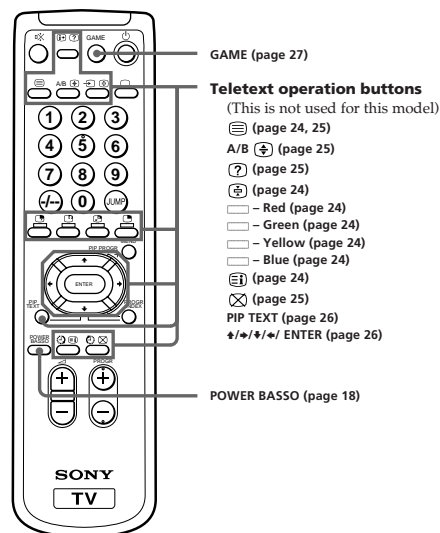
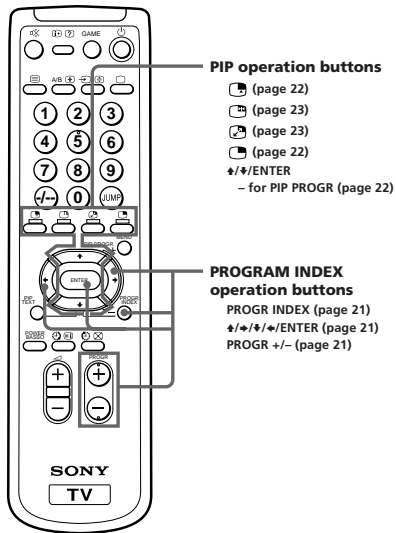


— 4 —

Getting to know the remote commander

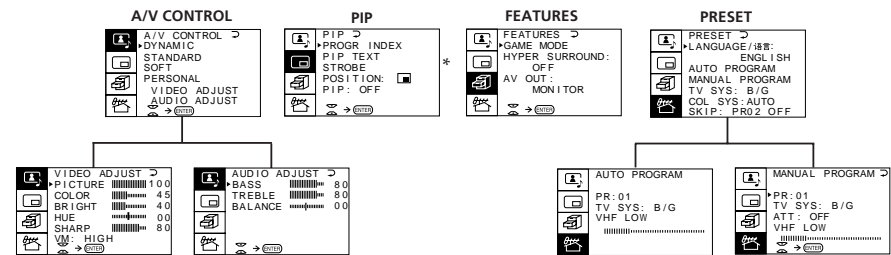
Names of buttons on the remote commander are indicated in different colors to represent the available functions.

Label color	Button function
White	For general TV operations.
Green	For Teletext operations. (This is not used for this model)
Yellow	For PIP and PROGRAM INDEX operations.



Introducing the menus

You can preset TV channels, adjust the picture and sound qualities, and select some settings using the on-screen menus. You can use the buttons on both the remote commander and the TV to operate the menus.



(*This is not used for this model)

Getting back to the previous menu (except for AUTO PROGRAM)

Press **↑** or **↓** to move the cursor (▶) to the first line (▢) of each menu, and press **ENTER**.

Cancelling the menu screen

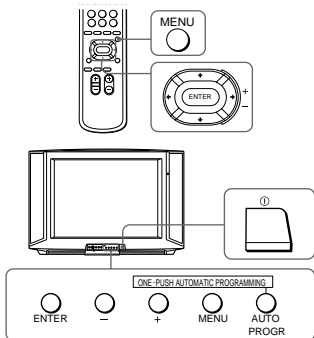
Press **MENU**.

Notes (except for AUTO PROGRAM)

- When a menu is selected after pressing **ENTER**, the color of both the menu and the menu symbol change and the cursor (▶) appears beside the first item of the menu.
- When an item on the menu is selected after pressing **ENTER**, the color of the item changes.
- You can refer to the guide (☰ → ENTER) at the bottom of the menus (except for the **PRESET** menu) for the basic operations of the menu.
- If more than approximately 60 seconds elapse after you press a button, the menu screen disappears automatically.

Changing the menu language

If you prefer Chinese to English, you can change the menu language. You can use buttons on both the remote commander and the TV.



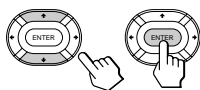
1 Press **⓪** to turn on the TV.



2 Press **MENU**.



3 Press **↑** or **↓** to move the cursor (▶) to the **PRESET** menu (PRE), and press **ENTER**.



4 Make sure the cursor (▶) appears beside **LANGUAGE/语言**, and press **ENTER**.

5 Press **←**/**→**/**↑**/**↓** to select **中文**, and press **ENTER**.



All of the menus change to Chinese.

6 Press **MENU** to return to the normal screen.

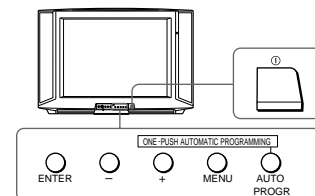


Presetting channels

You can preset TV channels easily by storing all the receivable channels automatically. You can also preset channels manually or disable program positions (see page 12).

Presetting channels automatically

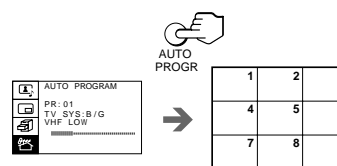
You can preset up to 100 TV channels in numerical sequence from the program position 1. You can preset channels automatically using the button on the TV or the menu.



1 Press **⓪** to turn on the TV.



2 Press **AUTO PROGR**.



The TV starts scanning and presetting channels automatically. When all of the receivable channels are stored, the AUTO PROGRAM menu disappears and the first nine preset TV programs appear on the nine sub screens. The nine sub screens disappear after being displayed for several seconds.

Note

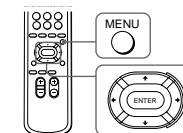
- If you want to return to the normal screen while the nine sub screens are being displayed, you can press **PROGR INDEX** on the remote commander.

To preset channels automatically using the menu

- Press **MENU**.
- Press **↑** or **↓** to move the cursor (▶) to the **PRESET** menu (PRE), and press **ENTER**.
- Press **↑** or **↓** to move the cursor (▶) to **AUTO PROGRAM**, and press **ENTER**.

Presetting channels manually

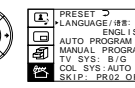
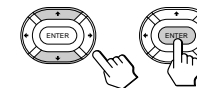
To change the program position for a channel or to receive a channel with a weak signal which you cannot receive by automatic presetting, preset the channel manually.



1 Press **MENU**.



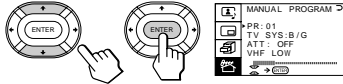
2 Press **↑** or **↓** to move the cursor (▶) to the **PRESET** menu (PRE), and press **ENTER**.



3 Select your local TV system.

- Press **↑** or **↓** to move the cursor (▶) to **TV SYS**, and press **ENTER**.
- Press **←**/**→**/**↑**/**↓** until your local TV system appears on the menu, and press **ENTER**.

4 Press ▲ or ▼ to move the cursor (▶) to MANUAL PROGRAM, and press ENTER.



5 Select the program position to which you want to preset a channel.

- (1) Make sure the cursor (▶) appears beside PR, and press ENTER.
- (2) Press ▲/▼/▲/▼ until the program position you want appears on the menu, and press ENTER.

6 Select the desired channel.

- (1) Press ▲ or ▼ to move the cursor (▶) to VHF LOW, and press ENTER.
- (2) Press ▲/▼/▲/▼ until the desired channel picture appears on the TV screen, and press ENTER.

7 Press MENU to return to the normal screen.

If the TV signal is too strong

The picture may be distorted. You can reduce the picture distortion as described below.

- 1 Display the PRESET menu.
- 2 Press ▲ or ▼ to move the cursor (▶) to MANUAL PROGRAM, and press ENTER.
- 3 Press ▲ or ▼ to move the cursor (▶) to ATT, and press ENTER.
- 4 Press ▲/▼/▲/▼ to select ON, and press ENTER.

If the TV system is not properly selected

The picture color may be poor and/or the sound may be noisy. In this case, select the appropriate TV system.

- 1 Press PROGR +/- or the number buttons to select the program position.
- 2 Display the PRESET menu.
- 3 Press ▲ or ▼ to move the cursor (▶) to TV SYS, and press ENTER.
- 4 Press ▲/▼/▲/▼ until the appropriate TV system appears, and press ENTER.

Notes

- The TV system and the ATT (attenuator) settings are memorized for each program position.
- If you do not know your local TV system, consult your nearest Sony dealer or authorized service center.

Disabling program positions

By disabling unused or unwanted program positions, you can skip those positions when you press PROGR +/-.

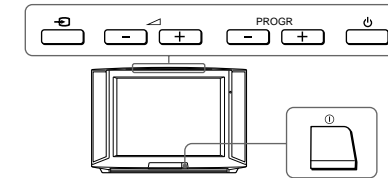
- 1 Press MENU.
- 2 Press ▲ or ▼ to move the cursor (▶) to the PRESET menu (⏏), and press ENTER.
- 3 Press ▲ or ▼ to move the cursor (▶) to SKIP, and press ENTER.
- 4 Press ▲ or ▼ until the unused or unwanted program position appears on the menu, and press ENTER.
- 5 Press ▲/▼/▲/▼ to select ON, and press ENTER.
- 6 To disable other program positions, repeat steps 4 and 5.
- 7 Press MENU to return to the normal screen.

To cancel the skip setting

- 1 Display the PRESET menu.
- 2 Press ▲ or ▼ to move the cursor (▶) to SKIP, and press ENTER.
- 3 Press ▲ or ▼ until the program position you want to cancel the skip setting appears, and press ENTER.
- 4 Press ▲/▼/▲/▼ to select OFF, and press ENTER.

Operations

Watching the TV



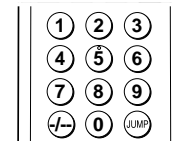
1 Press ① to turn on the TV.



When the TV is turned on in the standby mode, the ① indicator on the TV lights up. To turn on the TV completely, press ① on the remote commander or the TV. When the TV is turned on completely, the PROGR +/-, ▲ +/-, and ① indicators on the TV light up.

2 Select the TV program you want to watch.

To select a program position directly
Press the number button.

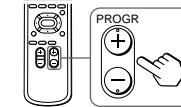


To select a two-digit program position, press “-/-” before the number buttons.
For example: to select program position 25, press “-/-,” then “2” and “5.”

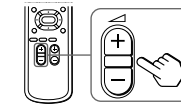


To scan through program positions

Press PROGR +/- on the remote commander or the TV until the program position you want appears.



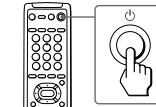
3 Press ▲ +/- on the remote commander or the TV to adjust the volume.



Turning off the TV

To turn off the TV temporarily

Press ① on the remote commander or the TV. The ① indicator lights up.



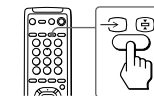
To turn off the TV completely

Press ① on the TV.



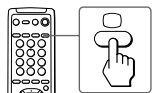
Watching the video input

Press ① on the remote commander or ① on the TV.



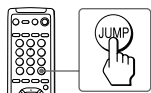
To watch TV

Press on the remote commander or on the TV.



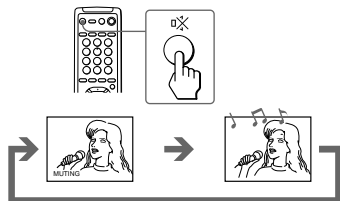
Switching back quickly to the previous channel

Press **JUMP**.



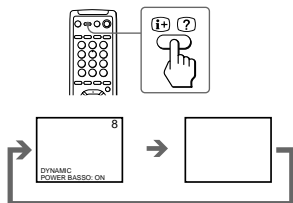
Muting the sound

Press .



Displaying the on-screen information

Press .



Note

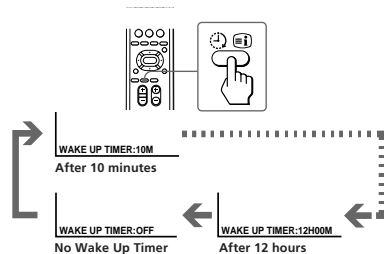
- The on-screen display shows the program position or the video mode, the picture and sound information. The on-screen display for the picture and sound information disappears after being displayed for approximately three seconds.

Setting the Wake Up Timer

You can set the TV to turn on automatically after the period of time you want.

1 Press repeatedly to set the timer.

The on-screen display appears.



2 If you want a particular TV program or video mode to be displayed using the Wake Up Timer, select the TV program or video mode.

3 Press on the remote commander or the TV, or set the Sleep Timer to turn off the TV in the standby mode.

The indicator lights up in amber color.

To cancel the Wake Up Timer, press repeatedly until "WAKE UP TIMER: OFF" appears, or turn off the main power of the TV.

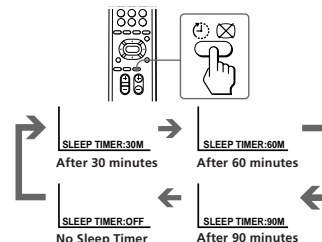
Notes

- The Wake Up Timer starts immediately after the on-screen display disappears.
- The last TV program position or video mode just before the TV turns into the standby mode will appear when the TV is turned on using the Wake Up Timer.
- 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 turns into the standby mode. If you want to continue watching the TV, press any button or control on the TV or remote commander.

Setting the Sleep Timer

You can set the TV to turn off automatically after the period of time you want.

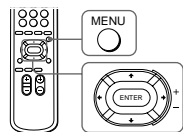
Press .



To cancel the Sleep Timer, press repeatedly until "SLEEP TIMER: OFF" appears, or turn the TV off.

Adjusting the picture and sound

Selecting the picture and sound modes

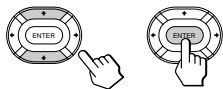


1 Press MENU.



2 Make sure the cursor (▶) appears in the A/V CONTROL menu (A), and press ENTER.

3 Press ▲ or ▼ to move the cursor (▶) to DYNAMIC, STANDARD, SOFT, or PERSONAL, and press ENTER.



Select	To
DYNAMIC	Receive high contrast picture with powerful sound.
STANDARD	Receive normal contrast picture with medium listening sound.
SOFT	Receive mild picture with soft sound.
PERSONAL	Receive the last picture and sound settings that are adjusted using VIDEO ADJUST and AUDIO ADJUST.

4 Press MENU to return to the normal screen.



Adjusting the picture settings (VIDEO ADJUST)

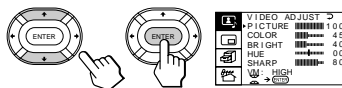
You can adjust the picture settings to suit your taste with the VIDEO ADJUST option. The adjusted settings are stored in the PERSONAL option.

1 Press MENU.



2 Make sure the cursor (▶) appears in the A/V CONTROL menu (A), and press ENTER.

3 Press ▲ or ▼ to move the cursor (▶) to VIDEO ADJUST, and press ENTER.



4 Press ▲ or ▼ to move the cursor (▶) to the item you want to adjust, and press ENTER.

5 Press ▲/▶/▼/◀ to adjust the selected item, and press ENTER.

For details on each item, see "Description of adjustable items" below.

6 To adjust other items, repeat steps 4 and 5.

7 Press MENU to return to the normal screen.

Description of adjustable items

Item	Press ▲/▶	Press ▼/◀
PICTURE	Decrease picture contrast.	Increase picture contrast.
COLOR	Decrease color intensity.	Increase color intensity.
BRIGHT	Darken the picture.	Brighten the picture.
HUE	Make picture tones become reddish.	Make picture tones become greenish.
SHARP	Soften the picture.	Sharpen the picture.
VM	Decrease emphasis on picture edges.	Increase emphasis on picture edges.

Note

- You can adjust HUE for the NTSC system only.

If the picture is slightly snowy

You may try to improve the picture by changing the VM setting as described below:

- 1 Display the VIDEO ADJUST menu.
- 2 Press ▲ or ▼ to move the cursor (▶) to VM, and press ENTER.
- 3 Press ▲/▶/▼/◀ to select LOW, and press ENTER.

If the picture color is abnormal when receiving programs through the T (antenna) terminal

Change the color system or the TV system from the PRESET menu as described below until the color becomes normal.

- 1 Display the PRESET menu.
- 2 Press ▲ or ▼ to move the cursor (▶) to COL SYS or TV SYS, and press ENTER.
- 3 Press ▲/▶/▼/◀ to change the color system or the TV system until the color becomes normal, and press ENTER.

Note

- Normally set the color system (COL SYS) to AUTO.

Adjusting the sound settings (AUDIO ADJUST)

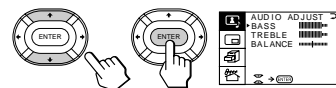
You can adjust the sound settings to suit your taste with the AUDIO ADJUST option. The adjusted settings are stored in the PERSONAL option.

1 Press MENU.



2 Make sure the cursor (▶) appears in the A/V CONTROL menu (A), and press ENTER.

3 Press ▲ or ▼ to move the cursor (▶) to AUDIO ADJUST, and press ENTER.



4 Press ▲ or ▼ to move the cursor (▶) to the item you want to adjust, and press ENTER.

5 Press ▲/▶/▼/◀ to adjust the selected item, and press ENTER.

For details on each item, see "Description of adjustable items" below.

6 To adjust other items, repeat steps 4 and 5.

7 Press MENU to return to the normal screen.

Description of adjustable items

Item	Press ▲/▶	Press ▼/◀
BASS	Decrease the bass sound.	Increase the bass sound.
TREBLE	Decrease the treble sound.	Increase the treble sound.
BALANCE	Increase the left speaker's volume	Increase the right speaker's volume.

If the sound is distorted or noisy when receiving programs through the T (antenna) terminal

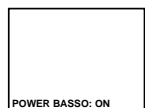
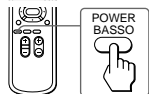
Change the TV system from the PRESET menu as described below until the sound becomes normal.

- 1 Display the PRESET menu.
- 2 Press ▲ or ▼ to move the cursor (▶) to TV SYS, and press ENTER.
- 3 Press ▲/▶/▼/◀ to change the TV system until the sound becomes normal, and press ENTER.

Listening to the POWER BASSO sound

The POWER BASSO sound enables you to enjoy a high quality sound mode with the best combination of all types of sound. It reproduces dynamic and clear sounds and emphasizes low and high audio effects as well.

Press POWER BASSO.



The sound mode of the TV program or the video input changes to the POWER BASSO sound.

To restore the previous sound mode

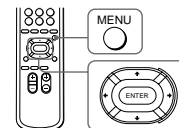
Press POWER BASSO again.

Note

- You can select any of the surround sound modes (HYPER SURROUND) to cancel the POWER BASSO sound.

Listening to the surround sound (HYPER SURROUND)

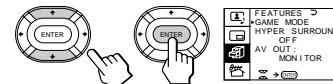
The HYPER SURROUND feature enables you to enjoy a surround sound effect that is like being in a concert hall or movie theater when receiving stereo signals.



1 Press MENU.

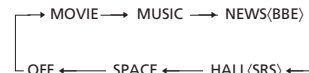


2 Press ↑ or ↓ to move the cursor (▶) to the FEATURES MENU (FEATURES), and press ENTER.



3 Press ↑ or ↓ to move the cursor (▶) to HYPER SURROUND, and press ENTER.

4 Press ←/→/↑/↓ to select MOVIE, MUSIC, NEWS(BBE), HALL(SRS) or SPACE, and press ENTER.



For details on each item, see “Description of adjustable items” below.

5 Press MENU to return to the normal screen.

Description of adjustable items

Select	To
MOVIE	Listen to a sound that emphasizes the bass audio effect of movie theater.
MUSIC	Listen to a dynamic and clear sound that emphasizes the low and high audio effect.
NEWS(BBE)	Listen to a sound that emphasizes voice.
HALL(SRS)	Listen to a sound that spreads out over a large area, giving the feeling of being at a concert hall.
SPACE	Listen to a monaural sound that gives a stereo-like effect.
OFF	Turn off the surround sound.

Notes

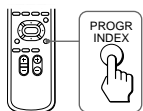
- The BBE is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word “BBE” and the BBE symbol are the trademarks of BBE Sound, Inc.
- The (●)@SRS (SOUND RETRIEVAL SYSTEM) is manufactured by Sony Corporation under license from SRS Labs, Inc. It is covered by U.S. Patent No. 4,748,669. The word “SRS” and the SRS symbol (●) are registered trademarks of SRS Labs, Inc.

Viewing multiple programs at the same time (PROGRAM INDEX)

The PROGRAM INDEX feature allows you to view all the preset TV programs and the video inputs on the nine sub screens within the main screen at the same time.

You can view multiple programs on the nine sub screens using the button on the remote commander or the menu.

Press **PROGR INDEX**.



The first nine preset programs appear on the nine sub screens.

>>> 1	2	3
4	5	6
7	8	9

To view the next or the previous nine preset programs on the nine sub screens

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

>>> 10	11	12
V1	V2	V3
1	2	3

↔

>>> 1	2	3
4	5	6
7	8	9

To select the program you want to watch directly after viewing multiple programs on the nine sub screens

Press the number buttons, **↵**, or press

▲/▼/▶/◀ to move the cursor (>>>) that appears on the first screen to the screen of the program you want to watch, and press **ENTER**.

To restore the normal screen

Press **PROGR INDEX** again or **↵**.

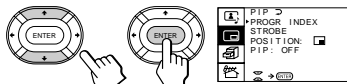
You can also select **PROGR INDEX** or **PIP : OFF** from the PIP menu, and press **ENTER** to restore the normal screen.

To view multiple programs on the nine sub screens using the menu

1 Press MENU.



2 Press ▲ or ▼ to move the cursor (▶) to the PIP menu (PIP), and press ENTER.



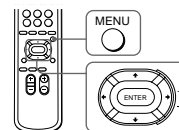
3 Make sure the cursor (▶) appears beside PROGR INDEX, and press ENTER.

Notes

- You can change the position of the nine sub screens using the PIP menu (as described in "Changing the position of the PIP screen" on page 23).
- You can hear the sound of the main screen when viewing multiple programs on the nine sub screens.
- You can use the number buttons on the remote commander to change the program position of the main screen when viewing multiple programs on the nine sub screens.

Displaying frame-by-frame pictures (STROBE)

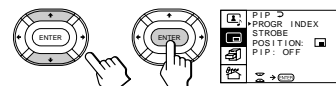
You can watch a slow motion movement of the main screen picture which is displayed frame-by-frame on the nine sub screens within the main screen.



1 Press MENU.



2 Press ▲ or ▼ to move the cursor (▶) to the PIP menu (PIP), and press ENTER.



3 Press ▲ or ▼ to move the cursor (▶) to STROBE, and press ENTER.



To restore the normal screen

Select **STROBE** again or **PIP : OFF** from the PIP menu, and press **ENTER**.

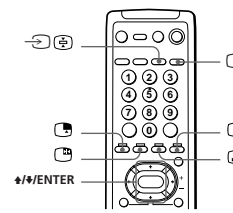
You can also press **↵**, **↵**, **PROGR +/-**, or **↵** to restore the normal screen.

Notes

- You can change the position of the nine sub screens using the PIP menu (as described in "Changing the position of the PIP screen" on page 23).
- You can hear the normal sound when using the STROBE feature.

Using the Picture-in-Picture (PIP) features

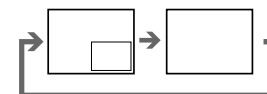
With the Picture-in-Picture (PIP) feature, you can display a sub screen within the main picture of different TV programs or video inputs.



Displaying the PIP screen

You can display the PIP screen using the button on the remote commander or the menu.

Press **↵**.



To select a TV program or video input in the PIP screen

To select a TV program, press **▲** or **▼**, and press **ENTER**.

To select a video input, press **↵** on the remote commander or **↵** on the TV.

To display the PIP screen using the menu

1 Press MENU.

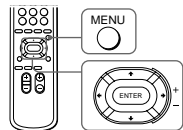
2 Press ▲ or ▼ to move the cursor (▶) to the PIP menu (PIP), and press ENTER.

3 Press ▲ or ▼ to move the cursor (▶) to PIP, and press ENTER.

4 Press ▲/▼/▶/◀ to select ON, and press ENTER.

5 Press MENU to return to the normal screen.

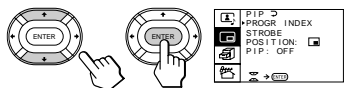
Changing the position of the PIP screen



1 Press MENU.

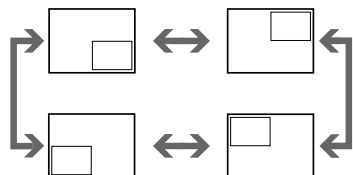


2 Press + or + to move the cursor (▶) to the PIP menu (PIP), and press ENTER.



3 Press + or + to move the cursor (▶) to POSITION, and press ENTER.

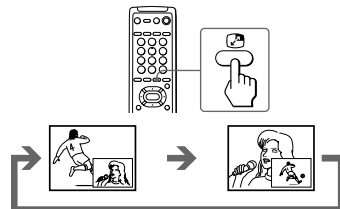
4 Press +/+/+/+ to select the position you want, and press ENTER.



5 Press MENU to return to the normal screen.

Swapping pictures between the main and PIP screens

Press .



Freezing the PIP screen

Press .

The PIP screen will freeze.

To restore the normal screen

Press  again.

Notes

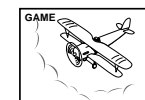
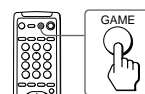
- When you display a video input on the PIP screen at an abnormal speed, the picture may be noisy depending on the VCR.
- If you display different color systems on the main screen and the PIP screen, the size of the PIP screen may be different and the PIP picture may be noisy. This does not indicate a malfunction of the TV.

Viewing a video game screen (GAME MODE)

The GAME MODE feature enables you to view a video game screen in the optimum mode that gives soft picture and dynamic sound effect.

You can display a video game screen using the button on the remote commander or the menu.

Press GAME.



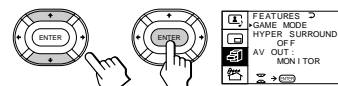
The picture and sound change to the mode that is suitable for a video game.

To view a video game screen using the menu

1 Press MENU.



2 Press + or + to move the cursor (▶) to the FEATURES menu (FEATURES), and press ENTER.





3 Make sure the cursor (▶) appears beside GAME MODE, and press ENTER.

To restore the normal picture and sound modes


Press , , or PROGR +/-.

Notes

- If you press the GAME button when the TV is in the standby mode, the TV turns on automatically and the picture and sound change to the mode that is suitable for a video game.
- To display a video game screen, connect the video game equipment to the  3 (VIDEO 3 INPUT) jacks at the front of the TV or the  (VIDEO IN) 3 jacks at the rear of the TV.

Customizing the TV

Using the AV OUT (advanced rec-out) terminal

You can select the output signal from the  (MONITOR/TV OUT) jacks at the rear of the TV. However, the signals of the PROGRAM INDEX, STROBE, PIP modes cannot be output even though MONITOR is selected.

1 Press MENU.



2 Press + or - to move the cursor (▶) to the FEATURES menu (FEATURES), and press ENTER.




3 Press + or - to move the cursor (▶) to AV OUT, and press ENTER.

4 Press + or - to select the output signal, and press ENTER.

Select	To
TV	Output the signal of the TV broadcast.
MONITOR	Output the signal of the picture you are watching as a main picture.

Note

- Do not change the channel while recording with a VCR through the  (MONITOR/TV OUT) jacks. If you change the channel, it also changes the channel you are recording.

Additional Information

Troubleshooting

If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.

If the problem persists, contact your nearest Sony dealer or authorized service center.

Snowy picture Noisy sound



- Check the antenna.
- Check the antenna connection on the TV and on the wall.
- Check the TV system (TV SYS) setting.
- Check the ATT (attenuator) setting.

Dotted lines or stripes



- This may be caused by local interference (e.g. cars, neon signs, hair dryers, etc.). Adjust the antenna for minimum interference.

Double images or "ghosts"



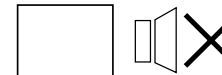
- This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.



Good picture Noisy sound



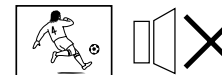
- Check the TV system (TV SYS) setting.

No picture No sound



- Press .
- Press  to turn off the TV for about five seconds and then turn it on again.
- Check the power cord connection.
- Check the antenna connection.
- Check the VCR connections.

Good picture No sound



- Press  +.
- Press .

No color



- Adjust the COLOR level in the VIDEO ADJUST menu of the PERSONAL option.
- Check the color system (COL SYS) setting.


TV cabinet creaks

- Even if the picture or the sound is normal, changes in the room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.


WARNING

- Dangerously high voltages are present inside the TV.
- Operate the TV only at 110-240 V AC.
- Do not open the cabinet and the rear cover of the TV. Refer servicing to qualified personnel.
- To prevent fire or shock hazard, do not expose the TV to rain or moisture.
- Do not operate the TV if any liquid or solid object falls into it. Have it checked immediately by qualified personnel only.
- Do not block the ventilation openings.
- Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.
- Do not install the TV in hot, humid or excessively dusty places.
- Do not install the TV where it may be exposed to mechanical vibrations.
- Do not keep the TV plugged in if you are not going to use it for several days.
- Do not pull the power cord to disconnect the TV. Pull it out by the plug.
- Use only the supplied screws (as shown on page 2) to fasten the TV to the TV stand or to stabilize the TV against a wall or a pillar. Use of other screws may damage the TV.

Note on the remote commander

- The supplied remote commander is used on several models of the TV. If you do not find instructions for some controls that are on the remote commander, that means your TV does not employ the features of those controls, e.g. .

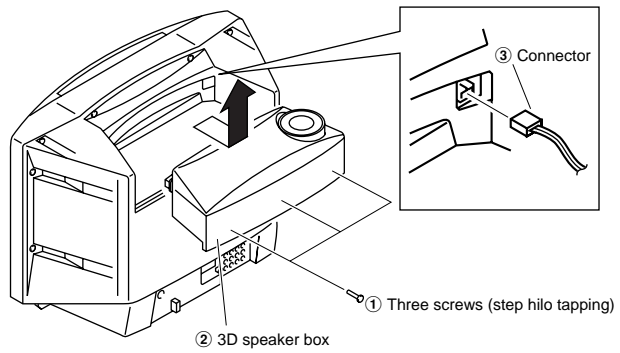
Notes

- When you turn on the TV, you may hear the “boon” sound that is caused by the demagnetization of the TV. This does not indicate a malfunction.
- The picture color may become abnormal if you change the direction of your TV. To obtain the normal picture color, press  or  on the TV to turn off the TV for five minutes and then turn it on again.

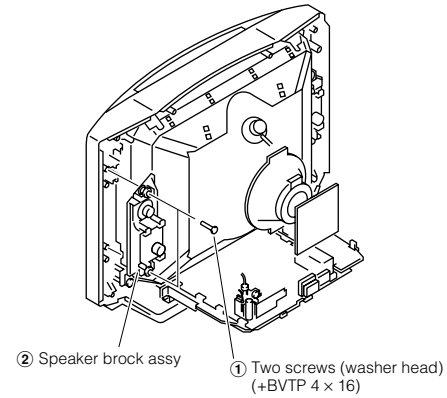
SECTION 2 DISASSEMBLY

2-1. 3D SPEAKER BOX REMOVAL

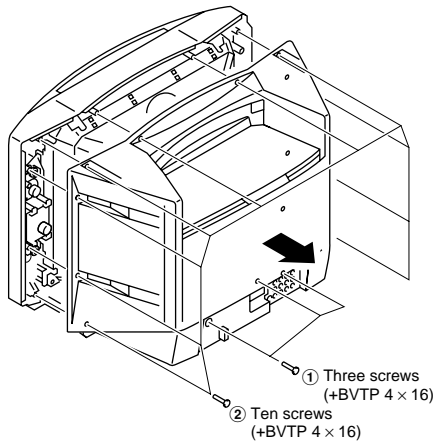
Note: Remove 3D SPEAKER BOX before you remove REAR COVER.



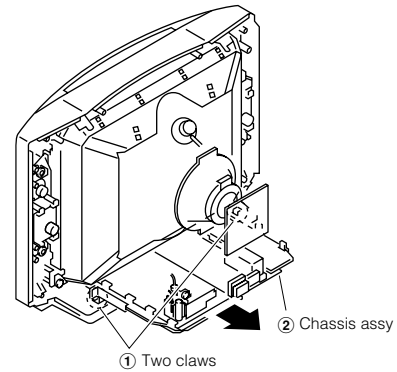
2-3. SPEAKER REMOVAL



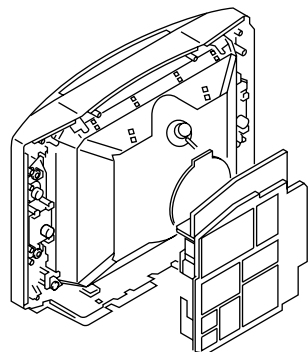
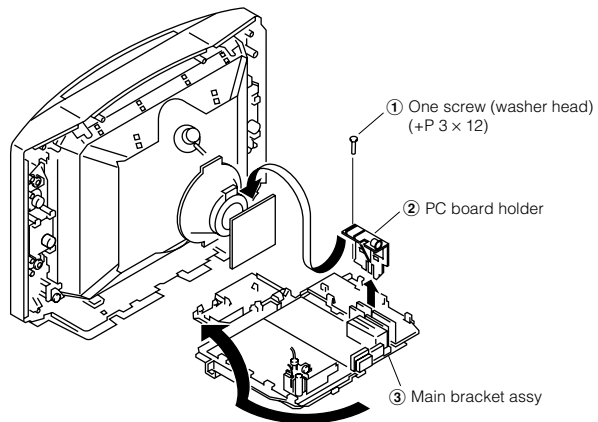
2-2. REAR COVER REMOVAL



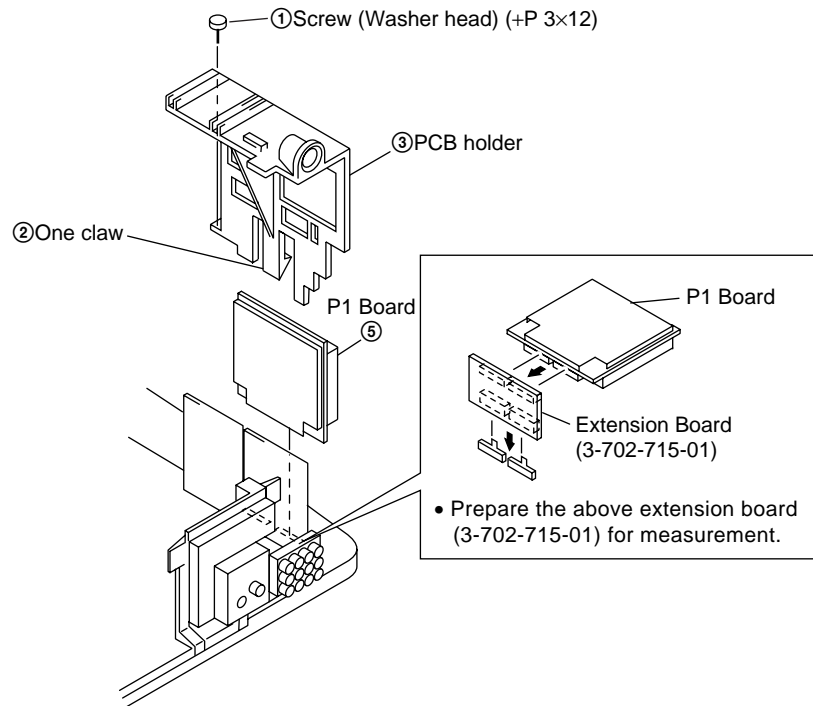
2-4. CHASSIS ASSY REMOVAL



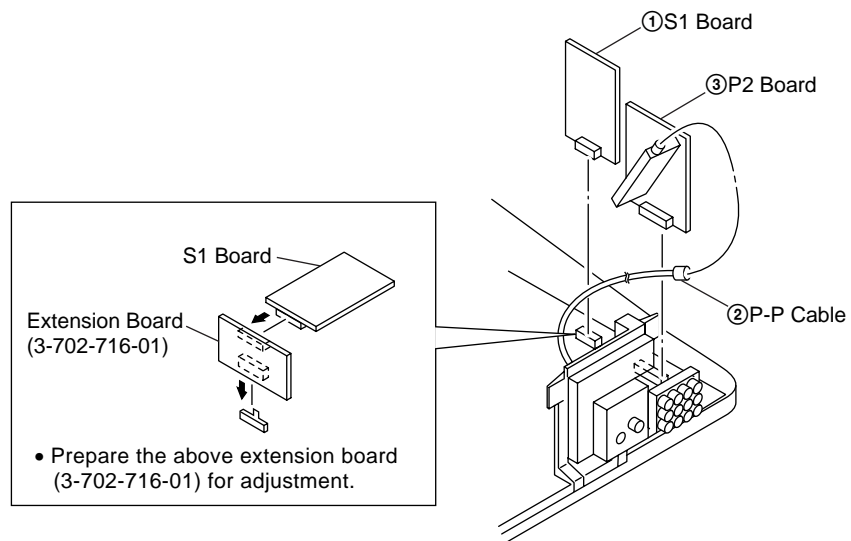
2-5. SERVICE POSITION



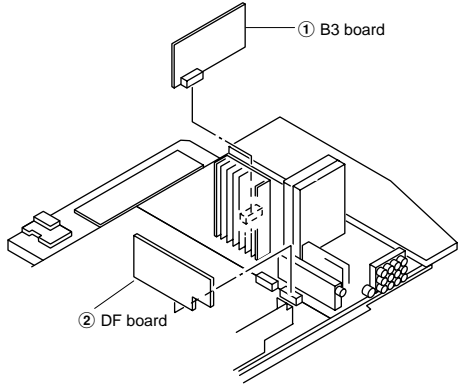
2-6. P1 BOARD REMOVAL



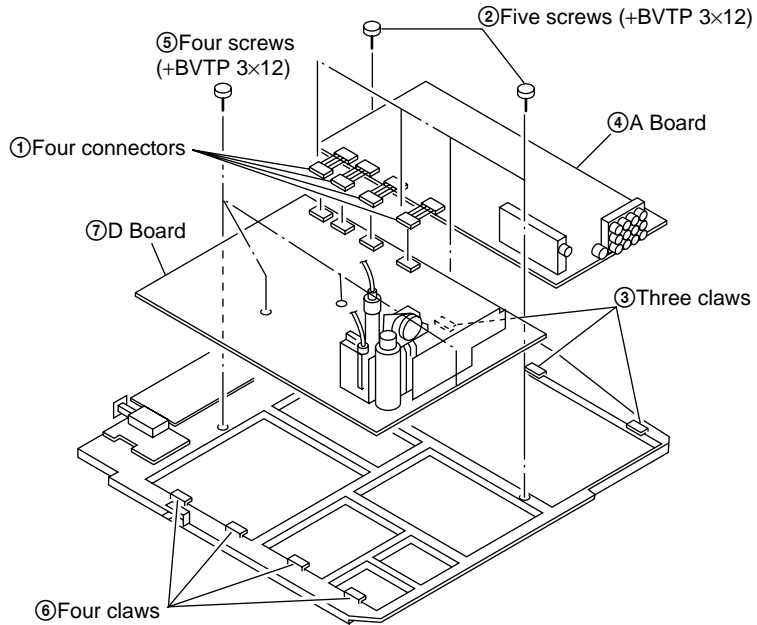
2-7. P2 AND S1 BOARDS REMOVAL



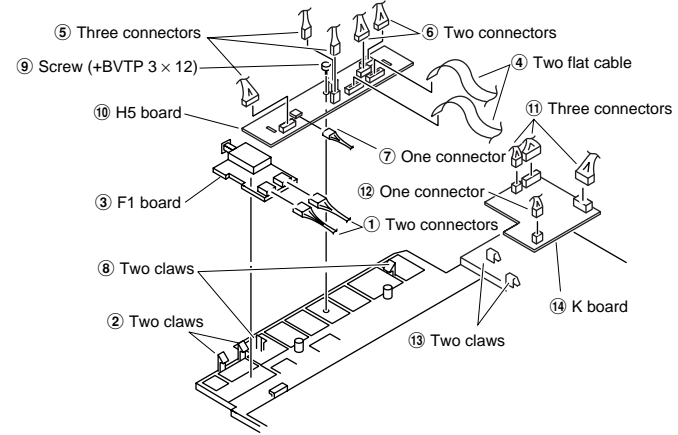
2-8. B3 AND DF BOARDS REMOVAL



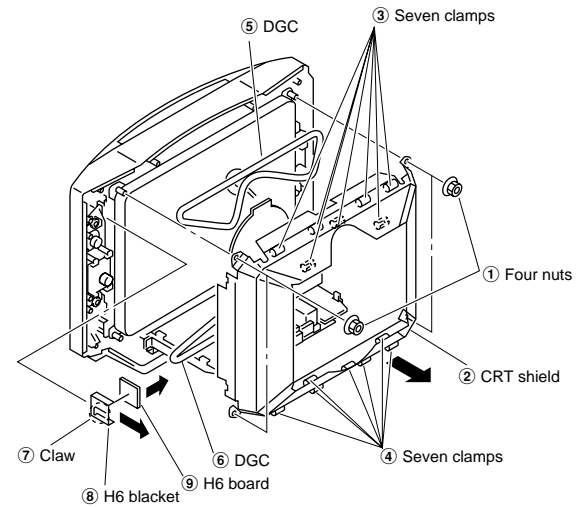
2-9. A AND D BOARDS REMOVAL



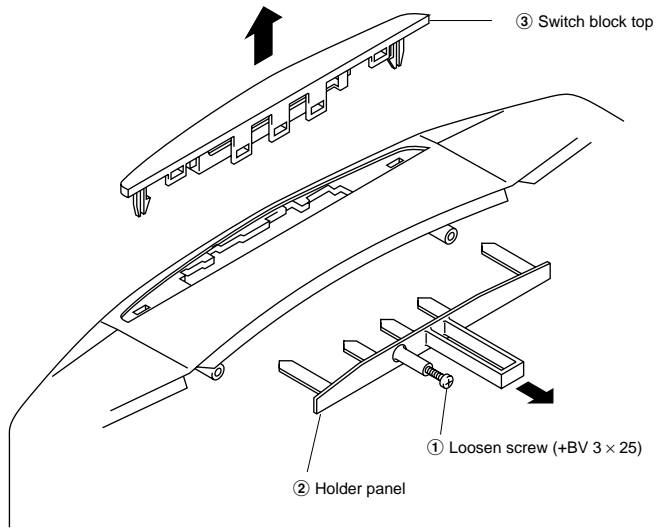
2-10. H5 AND K BOARDS REMOVAL



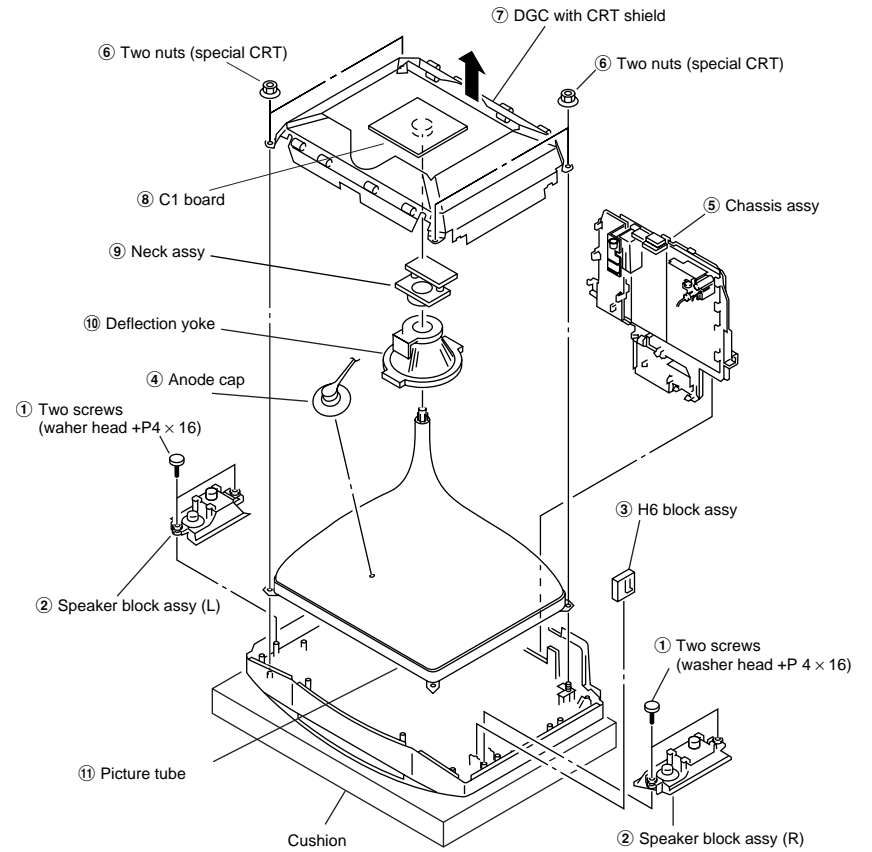
2-11. DGC REMOVAL



2-12. SWITCH BLOCK REMOVAL



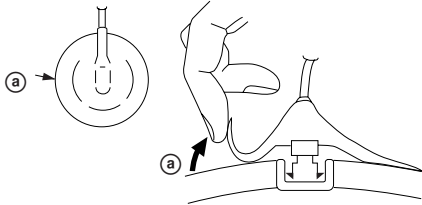
2-13. PICTURE TUBE REMOVAL



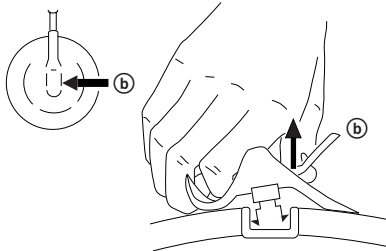
•REMOVAL OF ANODE-CAP

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

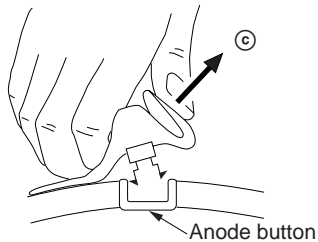
•REMOVING PROCEDURES



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



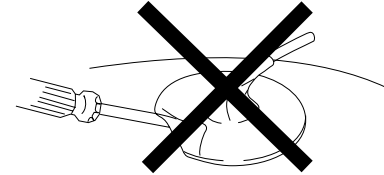
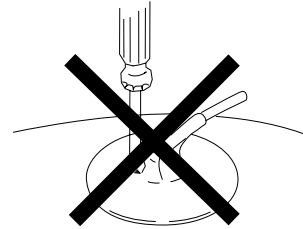
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②.



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

•HOW TO HANDLE AN ANODE-CAP

- ① Do not damage the surface of anode-caps with sharp shaped objects.
- ② Do not press the rubber too hard so as not to damage the inside of anode-caps. 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

SELF DIAGNOSIS FUNCTION

When turning on the TV, a self diagnosis function is executed.

If no acknowledgement is returned from a device which is turned "ON", the device has a problem.

In this case, one of the LED's responding to the problem device will flicker a defined number of times.

The flickering frequency responding to each failed device is shown below.

Board name	A Board	A Board	A Board	A Board
Ref. No.	IC003	IC1201	IC104	IC206
Device	NONVOLATILE MEMORY	AV SWITCH (CXA1855S)	MAIN Y/C (CXA2050S)	SURROUND PROCESSOR (TDA8424)
Flickering Frequency	1	2	3	6

All the devices are checked one after another from the left of the table.

If an error is found, the responding LED will start flickering.

So, if more than 1 device has failed, only the one on the left side will flicker.

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. Position neck assy as shown in Fig4-1.
2. Input a white signal with the pattern generator.

Contrast	} normal
Brightness	
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 4-2 through 4-4.)
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 red and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws and DY spacers.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
(See Figure 4-5.)

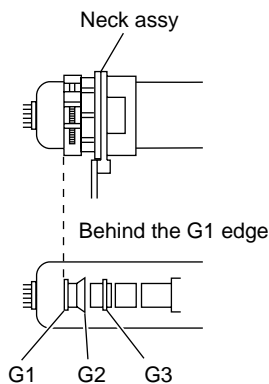


Fig. 4-1

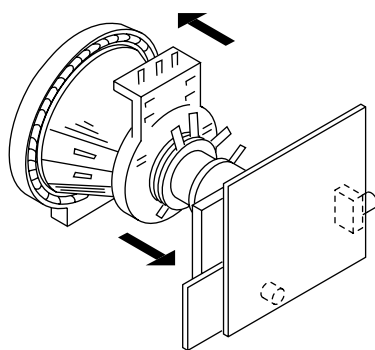


Fig. 4-2

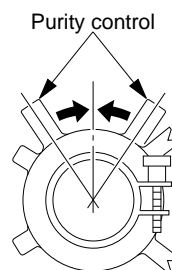


Fig. 4-3

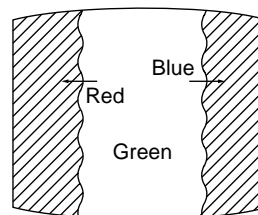


Fig. 4-4

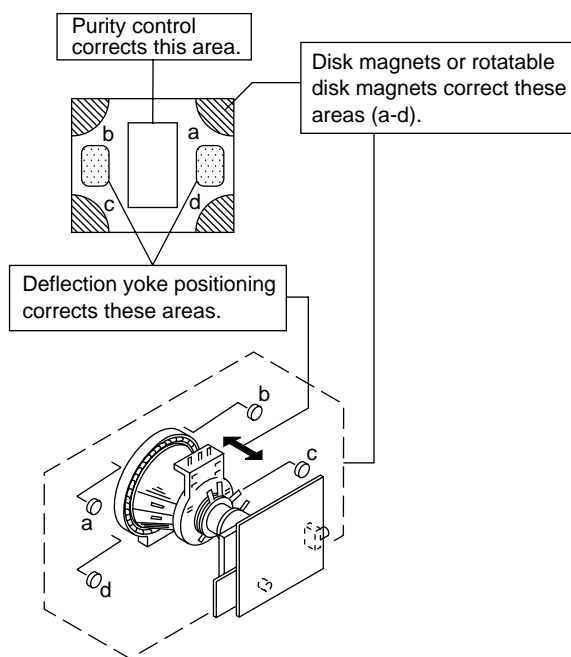


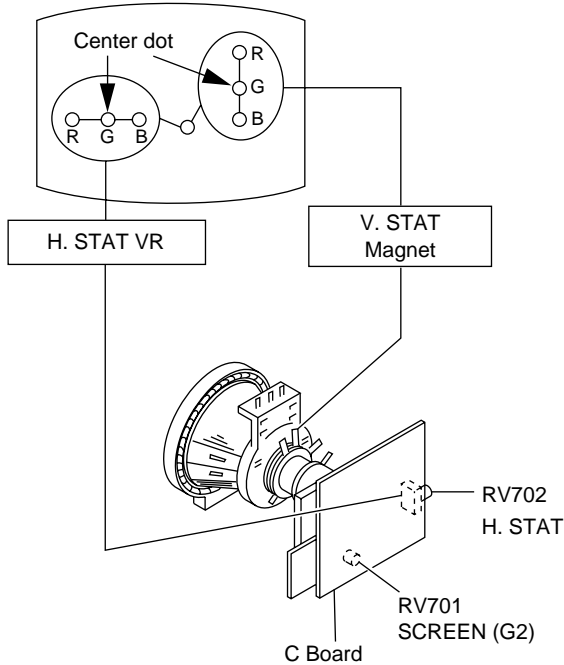
Fig. 4-5

4-2. CONVERGENCE

Preparation :

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

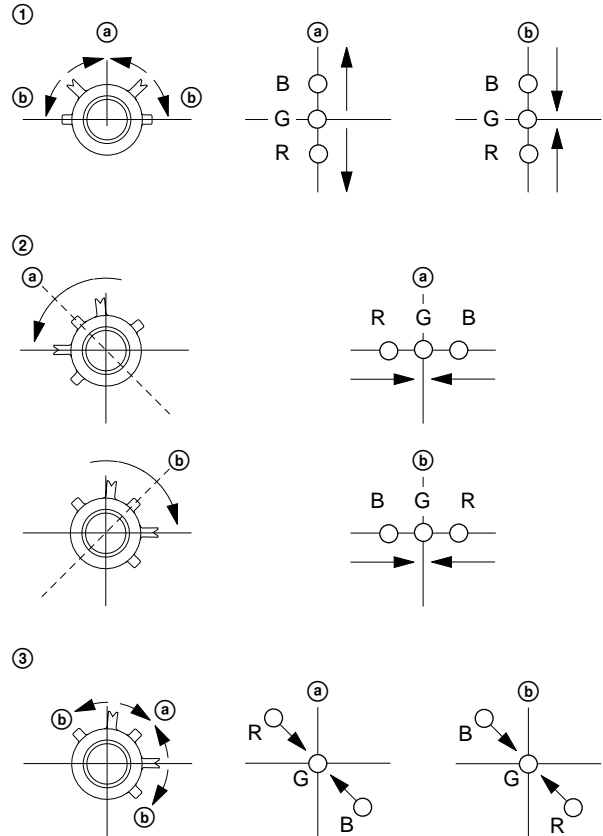
(1) Horizontal and Vertical Static Convergence



1. (Moving horizontally), adjust the H.STAT control so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
3. If the red, green and blue dots cannot come together at the center of the screen, adjust the 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.)

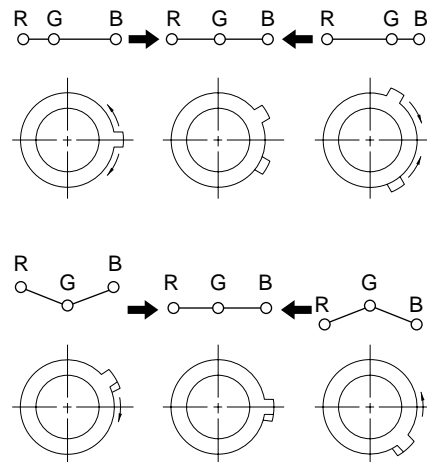
- Operation of V.STAT magnet.

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

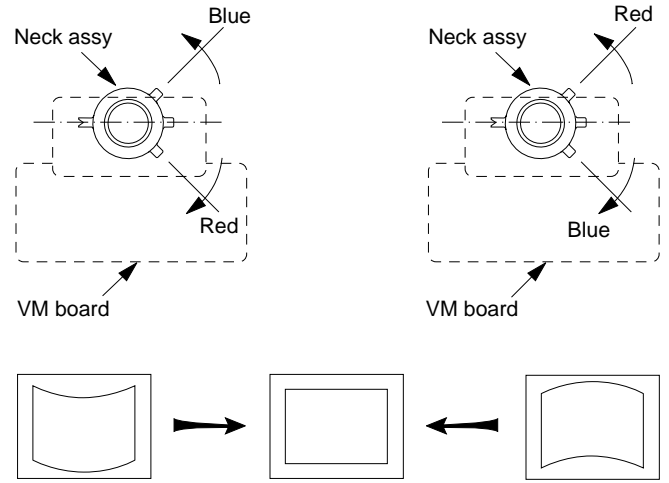


- Operation of BMC (Hexapole) magnet.

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



- 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.



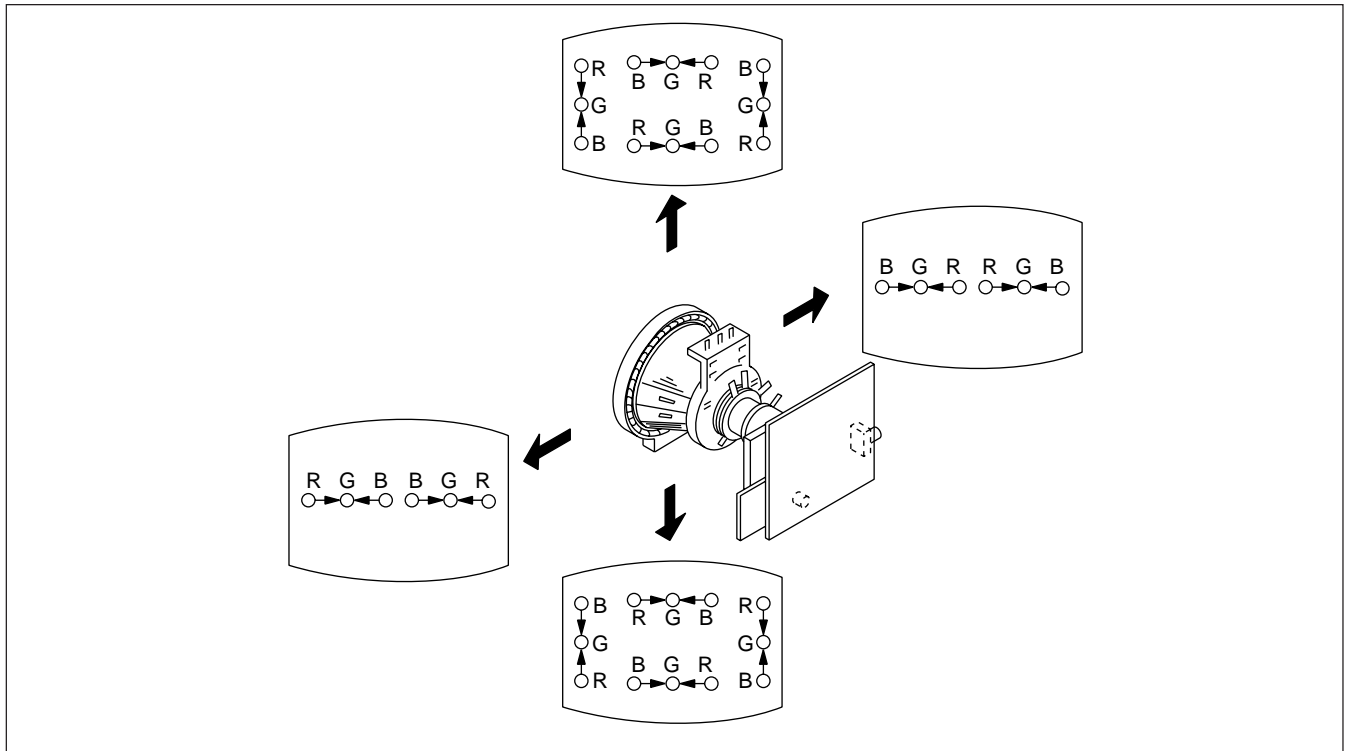
Note:

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)

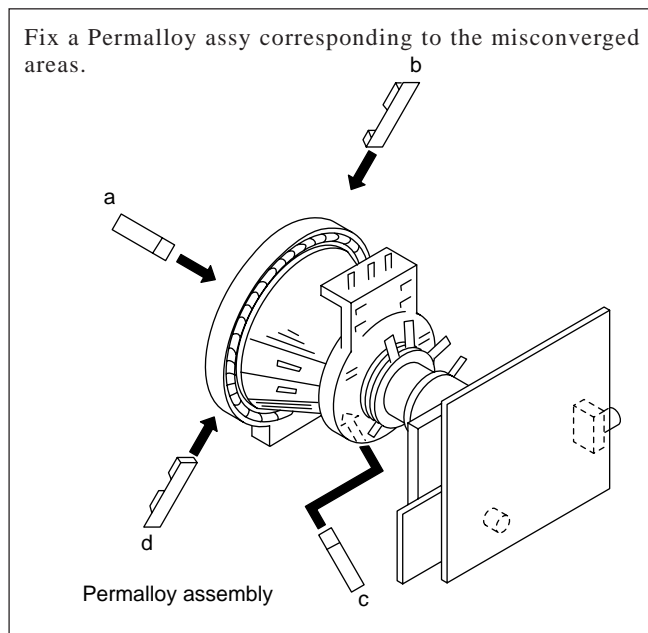
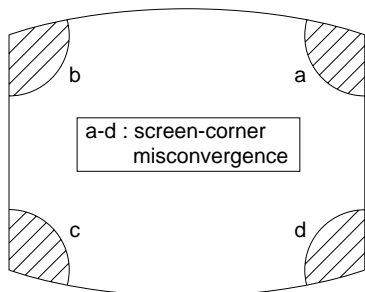
(2) Dynamic Convergence Adjustment

Preparation:

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence
1. Slightly loosen the deflection yoke screws.
 2. Remove the deflection yoke spacer.
 3. Move the deflection yoke as shown in the figure below and optimize the convergence.
 4. Tighten the deflection yoke screws.
 5. Install the deflection yoke spacer.

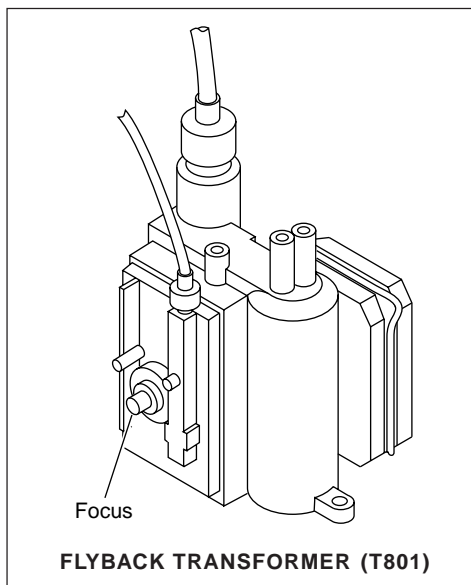


(3) Screen-corner Convergence



4-3. FOCUS ADJUSTMENT

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

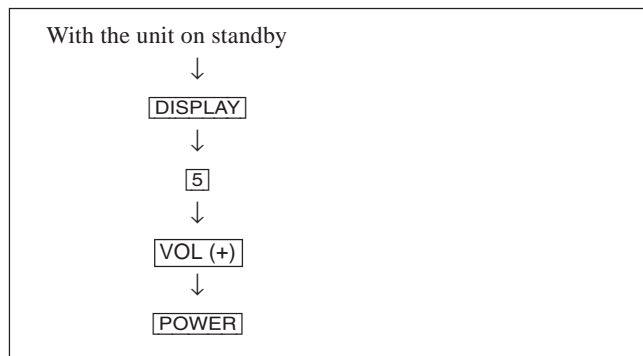


4-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

a. SOME ITEMS OF ADJUSTMENT

Item number	Adjustment item	Standard DATA		Note
		50Hz	60HZ	
37	SBR	24	24	SUB-BRIGHTNESS
39	GDR	1D		G. Drive
3A	BDR	20		B. Drive
3B	GCF	07		G. Cut-off
3C	BCF	08		B. Cut-off

b. ENTERING SERVICE MODE



c. METHOD OF CANCELLATION FROM SERVICE MODE

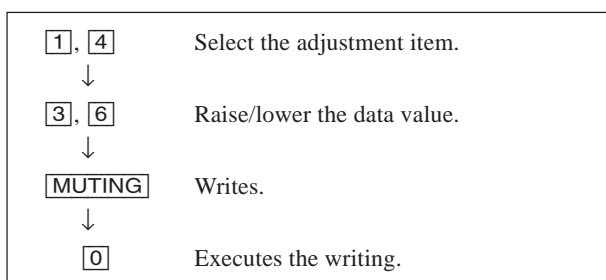
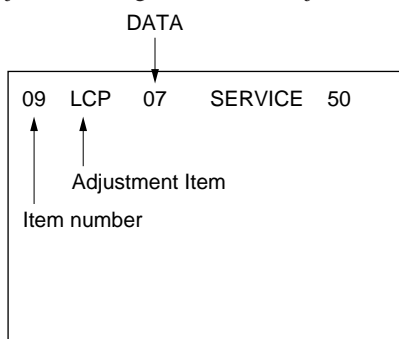
Set the standby condition (Press [POWER] button on the commander), then press [POWER] button again, hereupon it becomes TV mode.

d. 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.

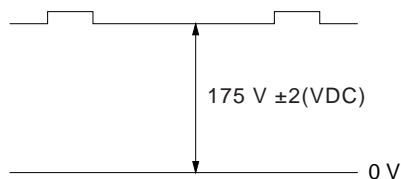
e. MEMORY WRITE CONFIRMATION METHOD

- 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.



1. G2 (SCREEN) ADJUSTMENT (RV701)

- 1) Set the PICTURE and BRIGHTNESS to normal.
- 2) Put to VIDEO input mode without signals.
- 3) Set to Service Mode.
- 4) Change item number 8E BLU data from "01" to "00"
(To turn off Blue Back).
- 5) Press [MUTING] and [0] to write the data into the memory.
- 6) Connect R, G and B of the C board cathode to the oscilloscope.
- 7) Adjust G2 (RV701) volume to the value below.



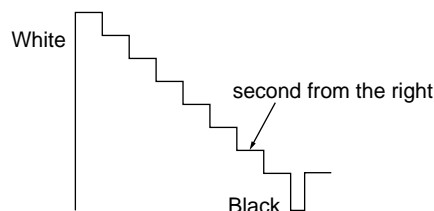
- 8) Re-set item number 8E BLU data from "00" back to "01".
- 9) Press [MUTING] and [0] to write the data into the memory.

2. WHITE BALANCE ADJUSTMENTS

- 1) Set to Service Mode.
- 2) Input white raster signal.
- 3) Set the PICTURE to minimum.
- 4) Select 37 SBR with [1] and [4], and then set the level to minimum with [3] and [6].
- 5) Select 3B GCF and 3C BCF with [1] and [4] and adjust the level with [3] and [6] for the best white balance.
- 6) Set the PICTURE to maximum.
- 7) Select 39 GDR and 3A BDR with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
- 8) Write into the memory by pressing [MUTING] then [0].

3. SUB BRIGHT ADJUSTMENT

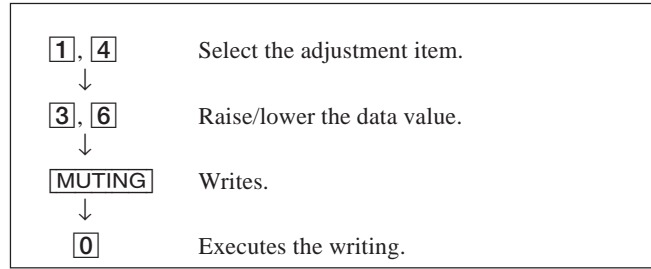
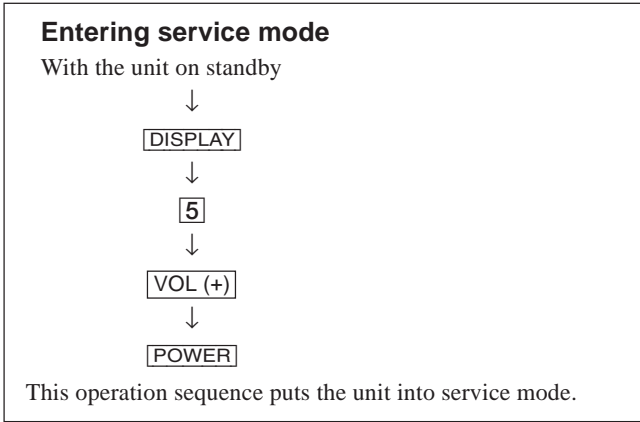
- 1) Set to service mode.
- 2) Input a staircase signal of black to white from the pattern generator.
- 3) BRIGHTNESS 50%.
PICTURE minimum
- 4) Select 37 SBR with [1] and [4], and adjust SBR level with [3] and [6] so that the second stripe from the right is dimly lit.



SECTION 5 CIRCUIT ADJUSTMENTS

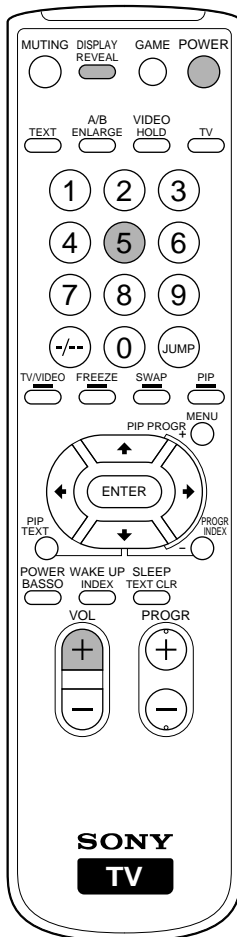
5-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-871 that comes with this unit.

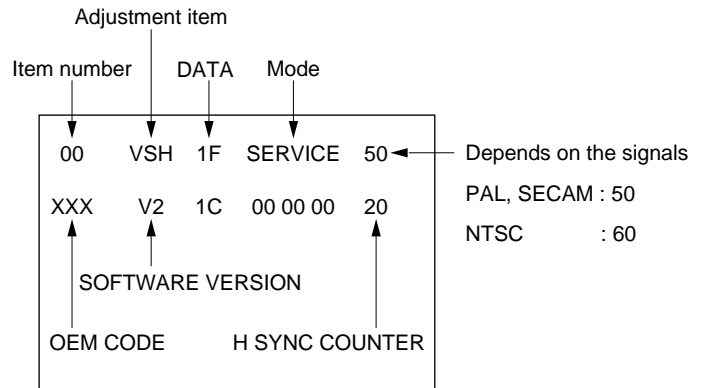


- [7], [0] All the data becomes the values in memory.
- [8], [0] All user control goes to the standard state.
- [5], [0] Service data initialization (Be sure not to use usually.)
- [2], [0] Write 50Hz adjustment data to 60Hz, or vice versa.

The screen display is :



RM-871

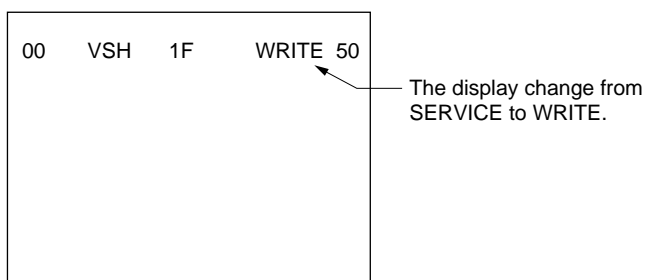
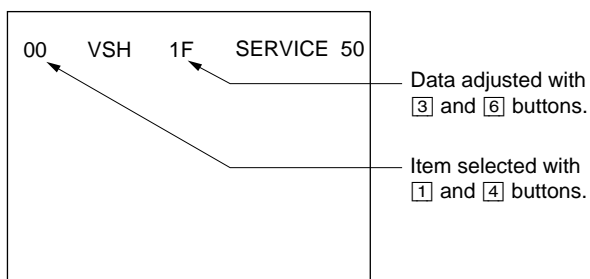


5-2. ADJUSTMENT METHOD

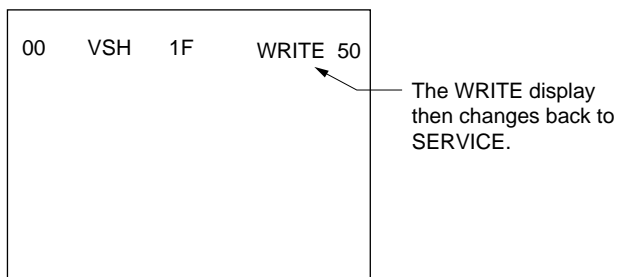
Item Number 00

This explanation uses V-Position as an example.

1. Select 00 VSH 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 back to SERVICE.)



Written with **[MUTING]**



Write executed with **[0]**

Use the same method for Items Number 00-99. 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. For adjustment items that have different standard data between 50Hz or 60Hz and normal or wide, be sure to use the respective input signal while adjusting.
 2. In **[WRITE]**, the data for all items are written into memory together.

Adjustment Item Table

Item number	Adjustment Item	Data range	Standard data	Note	Device
00	VSH	00-3F	1F	V Position	CXA2050S (Y/C/J)
01	VSZ	00-3F	1F	V Size	
02	HSH	00-0F	07	H Position	
03	HSZ	00-3F	1F	H Size	
04	SCR	00-0F	07	S Correction	
05	VLN	00-0F	07	V Linearity	
06	PAP	00-3F	1F	Pin Comp	
07	PPH	00-0F	07	Pin Phase	
08	UCP	00-0F	07	Up Corner Pin	
09	LCP	00-0F	07	Low Corner Pin	
0A	BOW	00-0F	07	AFC-Bow	
0B	ANG	00-0F	07	AFC-Angle	
0C	VAP	00-3F	2F	V Aspect	
0D	VSC	00-3F	1F	V Scroll	
0E	ULN	00-0F	00	UP V Linearity	
0F	LLN	00-0F	00	LOW V Linearity	
10	EHH	00-03	00	EHT-H	
11	EHV	00-03	01	EHT-V	
12	HBS	00-01	01	H Blk Wid. ON/OFF	
13	LBK	00-0F	0F	L Blk Width	
14	RBK	00-0F	0F	R Blk Width	
15	JSW	00-01	00	Jump ON/OFF Sw	
16	VBW	00-03	02	V Blk Wid. Con.	
17	AFC	00-03	01	AFC-Mode	
18	FHH	00-01	00	FH-HI	
19	VFQ	00-03	00	V-Freq	
1A	VOF	00-01	00	V OFF	
1B	VMD	00-01	00	CD-Mode 2	
1C	CMD	00-01	00	CD-Mode	
1D	ITL	00-03	00	Inter lace	
1E	ZSW	00-01	00	ZOOM SW	
1F	POV	00-03	03	Pre-Over	
20	CT1	00-01	01	C-Trap(NTSC)	
21	CT2	00-01	01	C-Trap(PAL)	
22	CF0	00-0F	07	C-Trap f0 Adj	
23	SF0	00-01	01	Sharpness f0 Adj	
24	TOT	00-01	01	TOT Filter SW	
25	CSW	00-03	00	Color SW	
26	XTL	00-03	00	Xtal	
27	CV1	00-01	01	CV/YC Select(NTSC)	
28	CV2	00-01	01	CV/YC Select(PAL)	
29	VM	00-01	01	VM ON/OFF	
2A	YVM	00-01	00	YSI/VM SW(0:YSI)	
2B	DPC	00-01	01	D-Pic ON/OFF	
2C	DCO	00-01	01	Dynamic Color	
2D	GMM	00-03	01	Gamma	
2E	DTR	00-01	01	DC-Tran	
2F	DL1	00-07	01	Delay Ctrl.(PAL)	
30	DL2	00-07	03	Delay Ctrl.(NTSC)	
31	DL3	00-07	03	Delay Ctrl.(SECAM)	
32	SCN	00-0F	09	Sub-Contrast	
33	SC1	00-0F	0B	Sub-Color (Others)	
34	SC2	00-0F	0A	Sub-Color (NTSC)	
35	SH1	00-0F	0A	Sub-Hue (TV)	
36	SH2	00-0F	0A	Sub-Hue (Video)	
37	SBR	00-3F	17	Sub-Bright	
38	SSH	00-07	04	Sub-Sharpness	
39	GDR	00-3F	2C	G-Drive	
3A	BDR	00-3F	2C	B-Drive	
3B	GCF	00-0F	07	G-Cutoff	

Note: Bold items are fixed data.

Adjustment Item Table

Item number	Adjustment Item	Data range	Standard data	Note	Device	
3C	BCF	00-0F	07	B-Cutoff	CXA2050S (Y/C/J)	
3D	RPO	00-03	01	Ref-Position		
3E	PON	00-01	01	Pic-ON		
3F	RON	00-01	01	R ON		
40	GON	00-01	01	G ON		
41	BON	00-01	01	B ON		
42	AKF	00-01	00	AKB ON/OFF SW		
43	ESY	00-01	00	Ext Sync Select		
44	AGG	00-01	00	Aging Mode ON/OFF		
45	ABL	00-01	01	ABL Pic/Pic&BrT SW(0:Pic only)		
46	LIM	00-01	00	RGB Limit ON/OFF(0:ON)		
47	PB	00-01	01	Picture Booster		TDA9170 (Picture Improve)
48	BOF	00-01	01	Black Offset		
49	UVG	00-3F	1F	User Var. Gamma		
4A	ADG	00-3F	1F	Adaptive Gamma		
4B	NLA	00-3F	0F	Non-linear Amp		
4C	WDS	00-02	00	Window Select		
4D	LST	00-0F	07	Window Line Start		
4E	LSP	00-0F	07	Window Line Stop		
4F	FST	00-0F	07	Window Field Start		
50	FSP	00-0F	07	Window Field Stop		
51	VA	00-01	01	V Aperture on/off	CXA1315 (V-AP)	
52	VAW	00-03	02	V Aperture white		
53	VAB	00-03	02	V Aperture black		
54	VAC	00-0F	03	V Aperture core		
55	SHP	00-3F	0F	Sharpness	CXA1315 (LTI)	
56	VML	00-3F	29	VM Limiter		
57	COR	00-3F	17	Coreing		
58	DOF	00-3F	15	DSC Offset		
59	DGA	00-3F	1F	DSC Gain		
5A	DLT	00-01	01	Delay Time		
5B	SDL	00-0F	01	SEL Pin Delay	SDA9189X (PinP)	
5C	POH	00-FF	14	H Position(MSB8bit)		
5D	POV	00-FF	27	V Position		
5E	PMD	00-1F	00	Pinp Display Mode		
5F	WRP	00-0F	00	Write Position		
60	HDL	00-1F	0B	HSI Delay		
61	AMS	00-01	00	Decimation Filter		
62	VDL	00-1F	0B	VSI Delay		
63	VSP	00-1F	0D	VSP Delay		
64	CON	00-0F	06	Contrast		
65	FRY	00-0F	09	Frame Y		
66	FRV	00-0F	00	Frame V		
67	FRU	00-0F	00	Frame U		
68	INF	00-01	01	Inner Frame		
69	FWV	00-03	02	Frame Width V		
6A	FWH	00-07	07	Frame Width H		
6B	PLL	00-03	02	PLL Loop Filter		
6C	PDV	00-0F	00	Pedestal V		
6D	PDU	00-0F	00	Pedestal U		
6E	DAT	00-01	00	DAC Stream Control		
6F	DAN	00-01	00	DAC Control		
70	WIP	00-01	00	Wipe on/off		
71	WSP	00-03	00	Wipe Speed		

Note: Bold items are fixed data.

Adjustment Item Table

Item number	Adjustment Item	Data range	Standard data	Note	Device
72	FAW	00-FF	08	NICAM FAW Thresh	MSP3410 (Audio Stereo Decoder)
73	CTM	00-FF	08	NICAM Error Bit(MONO)	
74	CTN	00-FF	50	NICAM Error Bit(NICAM)	
75	WCD	00-FF	0A	W.G.Change Data	
76	WST	00-FF	15	W.G.STEREO Threshold	
77	WTM	00-FF	50	W.G.Timer	
78	WBT	00-FF	EA	W.G.BILINGUAL Threshold	
79	ACG	00-01	01	AGC AUTO/CONST.	
7A	CDB	00-3F	28	AGC GAIN CONST.	
7B	FGP	00-7F	24	FM(BG,I,DK)Prescale	
7C	FMP	00-7F	40	FM(M) Prescale	
7D	WGP	00-7F	3C	W.G.Prescale	
7E	NIP	00-7F	7F	NICAM Prescale	
7F	CRM	00-01	00	Carrier Mute	
80	CML	00-03	00	Carrier Mute Level	
81	ACO	00-01	01	Audio Clock Out	
82	WAC	00-0F	01	W.G Agreement count	
83	DLY	00-FF	30	Stereo Search Delay	
84	DLG	00-FF	10	W.G. Search Delay	
85	TXP	00-0F	0E	Text Picture cont.	SAA 5281
86	MPX	00-0F	0F	Text Mix mode Pic.	
87	BB1	00-3F	1D	BBE control High	CXA1315 (BBE)
88	BB2	00-3F	1D	BBE control Middle	
89	BB3	00-3F	28	BBE control Low	
8A	ATW	00-03	00	Auto Wide Ident Speed	CXP5068
8B	BKP	00-FF	00	Blk off Picture	CXP85340 (MICRO CONTROLLER)
8C	OSH	00-3F	0E	OSD Position H	
8D	ODL	00-FF	10	Power On Delay	
8E	BLU	00-01	01	Blue Back on/off	
8F	ROC	00-0F	08	N/S Center Vol.	
90	ROS	00-07	07	User Step	
91	DKS	00-01	00	D/K Stereo Search	
92	MUT	00-01	01	No Sync. Mute	
93	DID	00-01	00	Disable Degauss	
94	DWZ	00-01	00	Disable Widezoom	
95	BCS	00-01	00	BASS Center Shift	
96	BVS	00-01	00	Basso Volume Shift	
97	WBS	00-03	00	Woofers Off Bass Shift	
98	OP0	00-FF	01	Option 0	
99	OP1	00-FF	3E	Option 1	

NOTE:

- Bold items are fixed data.
- 50 ... 50Hz data, 60 ... 60Hz data
- Standard data listed on the Adjustment Item Table are reference values, therefore it may be different for each model and mode.

ITEM INFORMATION.

No.98 OP0

Item	-	-	-	-	-	-	-	Fastext
KV-LX34M50	0	0	0	0	0	0	0	0

No.99 OP1

Item	Wide	Woofer	Tilt	VM	Comb type	Comb filter	SECAM	B/G only
KV-LX34M50	0	1	1	1	1	1	1	0

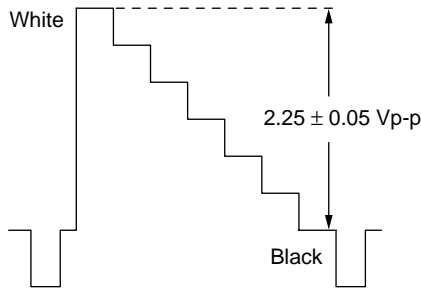
• 98 OP0, 99 OP1

- Fastext : 0 → Automatic mode, 1 → Fastext mode
- B/G only : 0 → Multi system, 1 → B/G system only
- Comb type : 0 → Glass comb filter, 1 → Digital comb filter
- Wide : 0 → 4:3 model, 1 → 16:9 model

5-3. PICTURE QUALITY ADJUSTMENTS

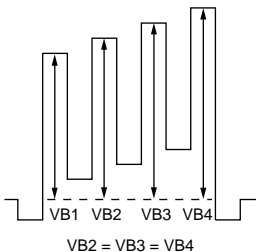
SUB CONTRAST ADJUSTMENT (SCN)

1. Receive a PAL color-bar.
2. Set service item 40 GON and 41 BON to data "00". Set the PICTURE 100%, BRIGHTNESS 50% and COLOR MIN.
3. Connect an oscilloscope to the pin ⑥ (R OUT) of CN117, A board.
4. Set to Service Mode and select 32 SCN using [1] and [4] of the commander, then adjust to $2.25 \pm 0.05V$ using [3] and [6].
5. Press [MUTING] → [0] of the commander to write the data.
6. Receive a NTSC color-bar and adjust 32 SCN as step 2 to 5.
7. Set service item 40 GON and 41 BON to data "01".



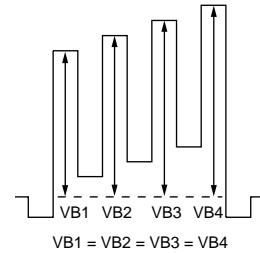
SUB COLOR ADJUSTMENT (SC1 & SC2)

1. Input a PAL color-bar.
2. Set service item 4B NLA to data "00".
Set to the following condition:
PICTURE 100%, BRIGHTNESS 50%, COLOR 50%
Remark: Adjustment must be done with both P1 & B1 boards fitted.
3. Connect an oscilloscope to the pin ④ (B OUT) of CN117, A board.
4. Set to Service Mode and select 33 SC1 with [1] and [4] of the commander then adjust to $VB2=VB3=VB4$ with [3] and [6].
5. Press [MUTING] → [0] of the commander to write the data.
6. Write 34 SC2 data same as 33 SC1 data.
7. Set service item 4B NLA to data "05" and write the data.



SUB HUE ADJUSTMENT (SH1 & SH2)

1. Receive a NTSC 3.58 color-bar.
2. Set the following condition:
PICTURE 100%, BRIGHTNESS 50%, COLOR 50%, HUE 0%
3. Connect an oscilloscope to the pin ④ (B OUT) of CN117, A board.
4. Select 36 SH2 with [1] and [4] of the commander by setting to Service Mode and adjust to $VB1=VB2=VB3=VB4$ with [3] and [6].



5. Write the data 1 step down from adjusted data.
6. Write data as below onto 35 SH1: 35 SH1 = 36 SH2 (Written data) - 3

5-4. DISPLAY POSITION ADJUSTMENT

PIP POSITION (POH, POV)

1. Receive a PAL color-bar.
2. Set the PIP picture by pressing PIP button on the commander.
3. Set to Service Mode.
4. Select 5C POH with the [1] and [4] on the commander and set the data "14" with [3] and [6].
5. Select 5D POV to set the data "27"
6. Press [MUTING] → [0] on the commander to write the data.
7. Check by changing the PIP position using the on-screen menu.

SECTION 7 EXPLODED VIEWS

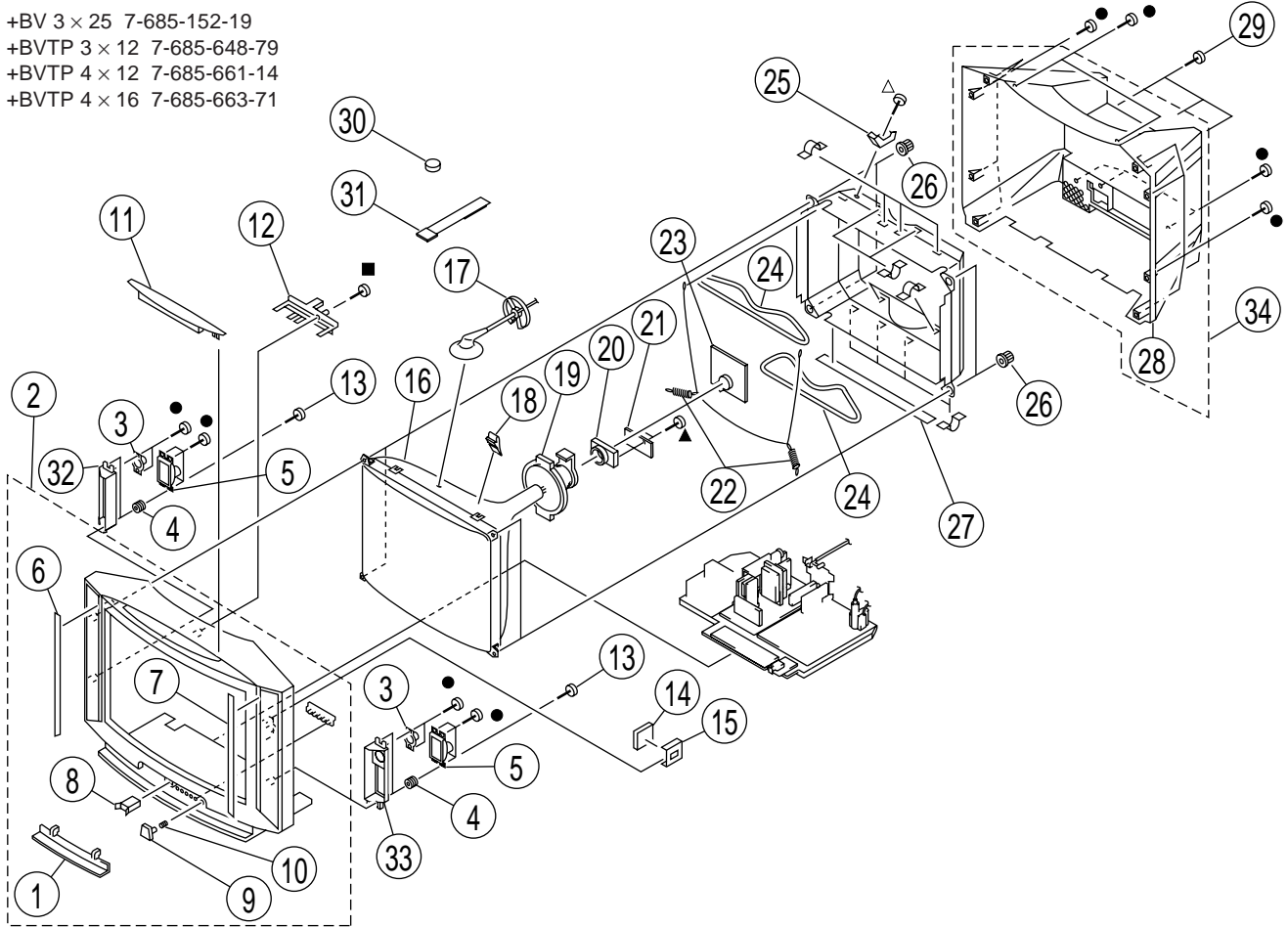
NOTE:

- 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 \triangle are critical for safety. Replace only with part number specified.

7-1. PICTURE TUBE

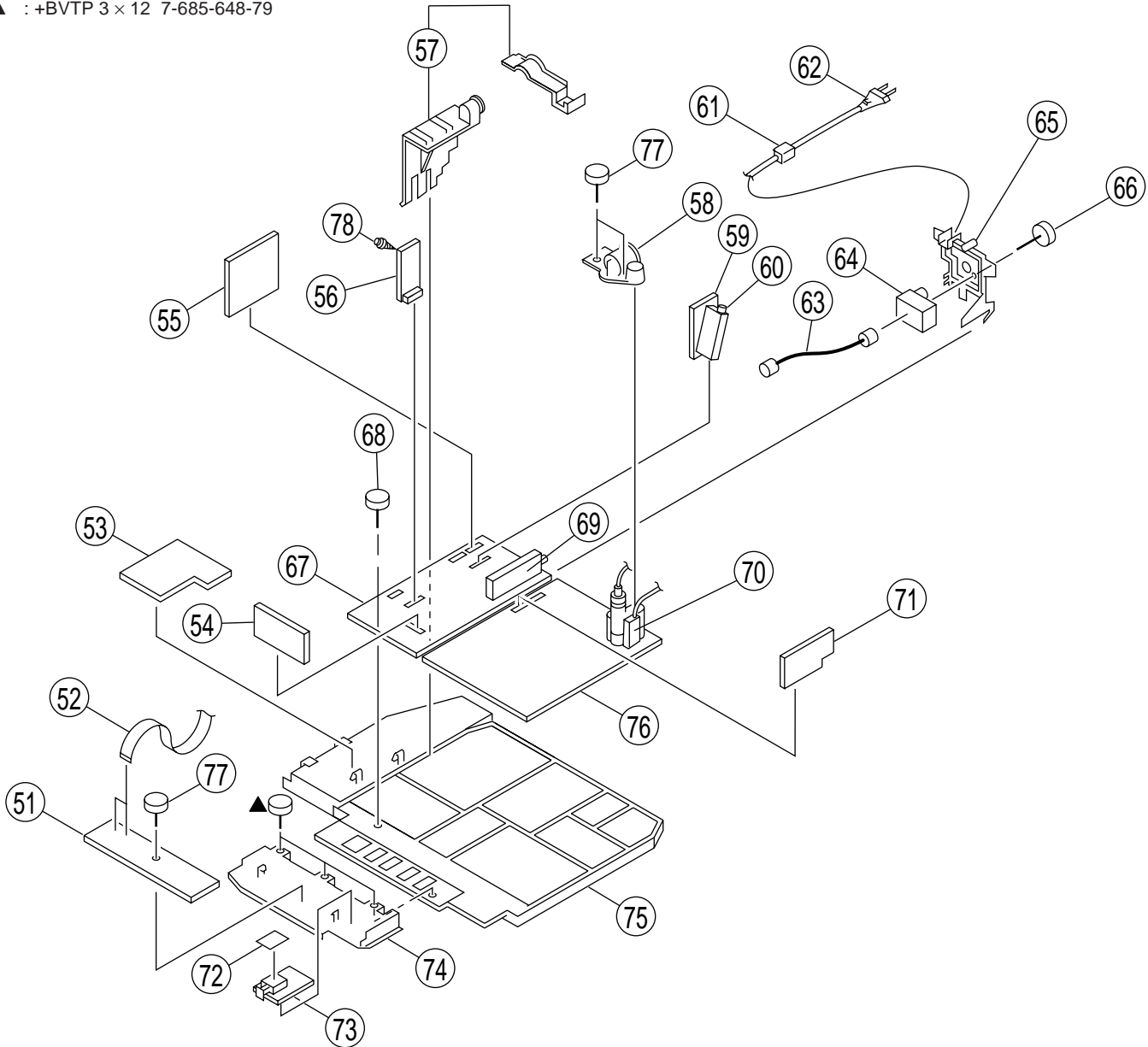
- : +BV 3 × 25 7-685-152-19
- ▲ : +BVTP 3 × 12 7-685-648-79
- △ : +BVTP 4 × 12 7-685-661-14
- : +BVTP 4 × 16 7-685-663-71



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	4-060-999-21	DOOR, CONTROL		18	4-060-267-01	SPACER, DY	
2	X-4035-110-2	BEZNET ASSY	1, 6-10	19	8-451-482-31	DEFLECTION YOKE (Y34FXA2-S)	
3	1-505-489-11	SPEAKER (5CM)		20	1-452-616-11	NECK ASSY, CRT (NA323)	
4	4-374-745-21	CUSHION (A)		21	* A-1342-408-A	VM BOARD, COMPLETE	
5	1-503-902-11	SPEAKER (15X6.5 CM)		22	4-376-036-01	SPRING, TENSION	
6	4-061-002-01	PANEL, ORNAMENTAL(L)		23	* A-1331-780-A	C1 BOARD, COMPLETE	
7	4-061-003-01	PANEL, ORNAMENTAL(R)		24	\triangle 1-411-132-11	COIL, DEMAGNETIZATION	
8	4-047-464-01	CATCHER, PUSH		25	* 4-061-031-01	BRACKET, CONNECTOR	
9	4-061-001-01	BUTTON, POWER		26	4-387-204-01	NUT, SPECIAL, CRT	
10	4-036-405-11	SPRING, COMPRESSION		27	4-385-725-01	SHEET, BLOTTING	
11	1-475-454-11	SWITCH BLOCK, TOP		28	\triangle 4-060-998-01	COVER, REAR	
12	* 4-061-022-01	HOLDER, PANEL		29	4-394-044-01	SCREW, STEP HILO TAPPING	
13	4-302-447-03	SCREW (WASHER HEAD) (+P 4X16)		30	1-452-032-00	MAGNET, DISC	
14	* A-1372-424-A	H6 BOARD, COMPLETE		31	X-4387-214-1	PERMALOY ASSY, CORRECTION	
15	* 4-061-017-01	BRACKET, H6		32	* X-4035-154-1	BRACKET (L) ASSY, SP	
16	\triangle 8-733-746-05	PICTURE TUBE (A80JYV51X)		33	* X-4035-155-1	BRACKET (R) ASSY, SP	
17	* 4-047-349-01	HOLDER, HV CABLE		34	* X-4035-248-2	COVER ASSY, REAR	28

7-2. CHASSIS

▲ : +BVTP 3 × 12 7-685-648-79

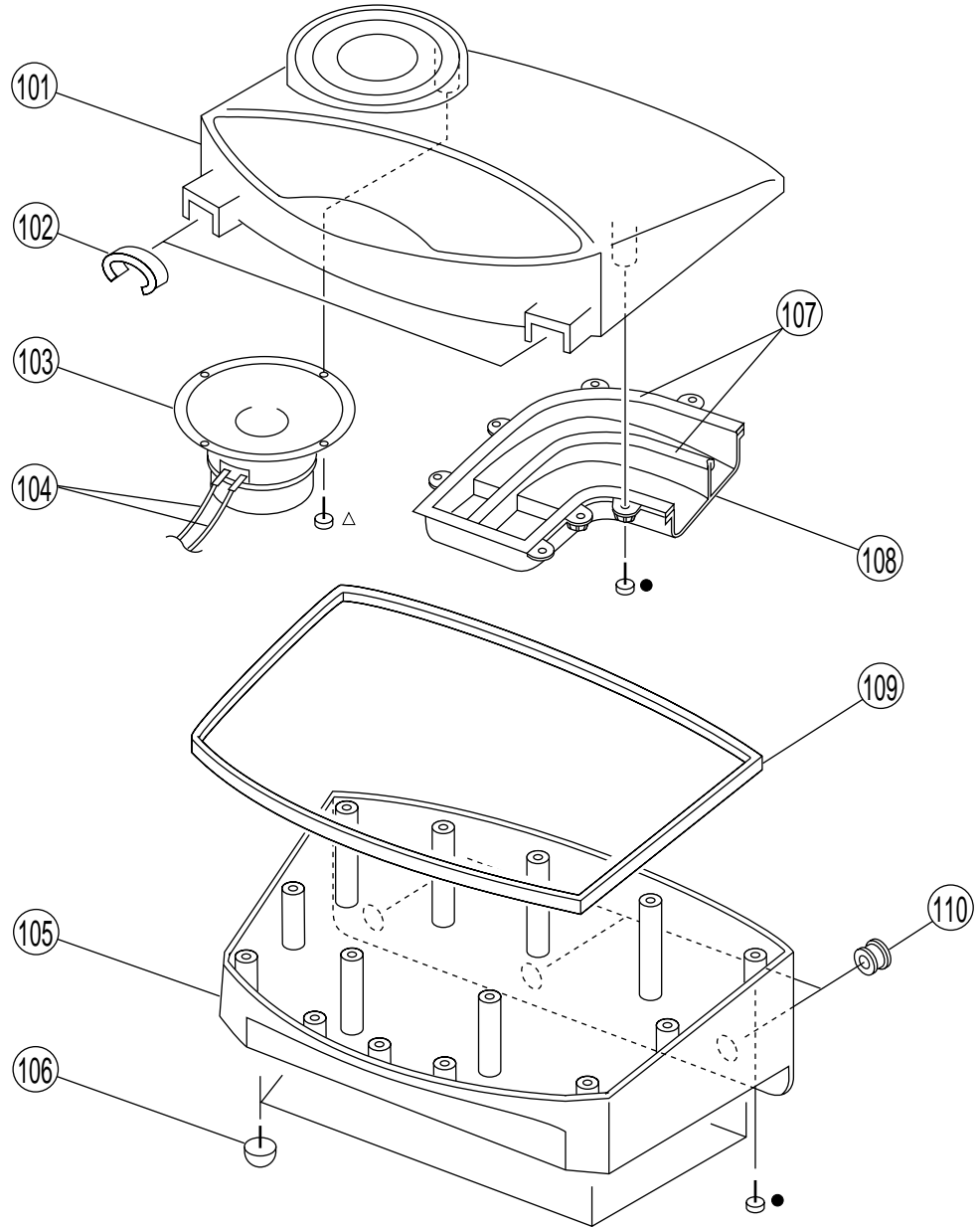


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	* A-1372-446-A	H5 BOARD, COMPLETE		66	4-382-854-11	SCREW (M3X10), P, SW (+)	
52	1-782-896-11	CABLE, FLAT		67	* A-1298-501-A	A BOARD, COMPLETE	
53	* A-1380-572-A	K BOARD, COMPLETE		68	4-046-797-01	SCREW (3X12), (+)BVTAP	
54	* A-1131-317-A	B3 BOARD, COMPLETE		69	8-598-372-10	TUNER, FSS BTF-FG441	
55	* A-1195-126-A	P1 BOARD, COMPLETE		70	▲ 1-453-255-11	TRANSFORMER ASSY, FLYBACK (NX-4122/M3J4)	
56	* A-1390-800-A	S1 BOARD, COMPLETE		71	* A-1343-472-A	DF BOARD, COMPLETE	
57	* 4-055-142-01	HOLDER, PC BOARD		72	* 4-055-447-21	SHEET, INSULATING	
58	* 4-055-139-01	HOLDER, FBT		73	* A-1241-318-A	F1 BOARD, COMPLETE	
59	* A-1190-304-A	P2 BOARD, COPMLETE		74	* 4-061-020-01	BRACKET, H5	
60	8-598-373-10	TUNER, FSS BTF-FG431		75	* X-4035-156-1	MAIN BRACKET ASSY	
61	▲ 4-022-115-12	HOLDER, AC CORD		76	* A-1346-727-A	D BOARD, COMPLETE	
62	▲ 1-777-954-11	CORD, POWER (WITH CONNECTOR) 2.5A/250V		77	4-302-428-03	SCREW (WASHER HEAD) (+P 3X12)	
63	* 1-555-110-00	CABLE, P-P		78	3-682-057-21	SPACER (SMALL)	
64	1-251-447-21	DISTRIBUTOR, RF					
65	4-055-141-01	BRACKET, TERMINAL					

7-3. 3D SPEAKER

△ : +BVTP 4 × 12 7-685-661-14

● : +BVTP 4 × 16 7-685-663-71



REF. NO.	PART NO.	DESCRIPTION	REMARK
101	X-4035-173-1	SP BOX(UPPER)(ASSY)	
102	* 4-061-013-01	SEAL, BOX	
103	1-505-792-11	SPEAKER (16CM)	
104	1-900-233-38	CONNECTOR ASSY 2P	
105	4-061-009-01	SP BOX (LOWER)	
106	4-061-007-01	FOOT	
107	* 4-061-014-01	SEAL, DUCT	
108	* 4-061-010-01	DUCT	
109	* 4-061-015-01	CUSHION, WOOFER	
110	4-396-117-01	CUSHION (A)	
???	* 4-061-014-11	DUCT, SEAL	
???	* 4-063-029-01	CUSHION, 3D BOX	

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-1298-501-A	A BOARD, COMPLETE *****		C042	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
	4-382-854-11	SCREW (M3X10), P, SW (+)		C043	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
		<CAPACITOR>		C044	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C001	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V	C045	1-216-295-91	SHORT	0
C002	1-126-965-11	ELECT 22MF	20% 50V	C046	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C003	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C048	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C004	1-126-961-11	ELECT 2.2MF	20% 50V	C049	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C005	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C050	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C006	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C051	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C007	1-126-959-11	ELECT 0.47MF	20% 50V	C052	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C008	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C053	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C009	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C054	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C010	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V	C055	1-126-941-11	ELECT 470MF	20% 16V
C011	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C056	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C012	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C057	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
C013	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C060	1-126-933-11	ELECT 100MF	20% 16V
C014	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C061	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C015	1-101-884-00	CERAMIC 56PF	5% 50V	C062	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C016	1-101-884-00	CERAMIC 56PF	5% 50V	C063	1-126-933-11	ELECT 100MF	20% 16V
C017	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C064	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C018	1-163-099-00	CERAMIC CHIP 18PF	5% 50V	C065	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C019	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C066	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C020	1-163-259-91	CERAMIC CHIP 220PF	5% 50V	C067	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C021	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C068	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C022	1-126-968-11	ELECT 100MF	20% 50V	C069	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C023	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C072	1-126-941-11	ELECT 470MF	20% 16V
C024	1-163-259-91	CERAMIC CHIP 220PF	5% 50V	C074	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
C025	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C078	1-126-933-11	ELECT 100MF	20% 16V
C026	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C079	1-126-967-11	ELECT 47MF	20% 50V
C027	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C080	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C028	1-163-259-91	CERAMIC CHIP 220PF	5% 50V	C081	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C029	1-163-259-91	CERAMIC CHIP 220PF	5% 50V	C084	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C030	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V	C085	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C031	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	C086	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C032	1-163-259-91	CERAMIC CHIP 220PF	5% 50V	C087	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C033	1-164-505-11	CERAMIC CHIP 2.2MF	16V	C088	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C034	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C089	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C035	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C090	1-104-664-11	ELECT 47MF	20% 25V
C037	1-163-259-91	CERAMIC CHIP 220PF	5% 50V	C091	1-104-664-11	ELECT 47MF	20% 25V
C038	1-126-968-11	ELECT 100MF	20% 50V	C093	1-104-664-11	ELECT 47MF	20% 25V
C039	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C101	1-126-960-11	ELECT 1MF	20% 50V
C040	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C102	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C041	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C103	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
				C105	1-164-343-11	CERAMIC CHIP 0.056MF	10% 25V
				C106	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C107	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
				C108	1-126-942-61	ELECT 1000MF	20% 25V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C109	1-163-017-00	CERAMIC CHIP	0.0047MF 10% 50V	C211	1-107-823-11	CERAMIC CHIP	0.47MF 10% 16V
C110	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C212	1-126-933-11	ELECT	100MF 20% 16V
C118	1-126-965-11	ELECT	22MF 20% 50V	C213	1-126-964-11	ELECT	10MF 20% 50V
C119	1-163-031-11	CERAMIC CHIP	0.01MF 50V	C214	1-130-495-00	MYLAR	0.1MF 5% 50V
C127	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	C216	1-104-661-91	ELECT	330MF 20% 16V
C128	1-126-963-11	ELECT	4.7MF 20% 50V	C217	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
C129	1-136-173-00	FILM	0.47MF 5% 50V	C219	1-104-664-11	ELECT	47MF 20% 25V
C130	1-126-960-11	ELECT	1MF 20% 50V	C220	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
C133	1-104-664-11	ELECT	47MF 20% 25V	C223	1-115-340-11	CERAMIC CHIP	0.22MF 10% 25V
C134	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C224	1-115-340-11	CERAMIC CHIP	0.22MF 10% 25V
C135	1-126-959-11	ELECT	0.47MF 20% 50V	C237	1-130-495-00	MYLAR	0.1MF 5% 50V
C136	1-164-005-11	CERAMIC CHIP	0.47MF 25V	C238	1-130-495-00	MYLAR	0.1MF 5% 50V
C137	1-163-133-00	CERAMIC CHIP	470PF 5% 50V	C240	1-126-960-11	ELECT	1MF 20% 50V
C138	1-126-964-11	ELECT	10MF 20% 50V	C241	1-126-953-11	ELECT	2200MF 20% 35V
C139	1-163-231-11	CERAMIC CHIP	15PF 5% 50V	C242	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
C140	1-126-964-11	ELECT	10MF 20% 50V	C243	1-126-965-11	ELECT	22MF 20% 50V
C141	1-163-099-00	CERAMIC CHIP	18PF 5% 50V	C244	1-126-953-11	ELECT	2200MF 20% 35V
C142	1-126-959-11	ELECT	0.47MF 20% 50V	C245	1-130-495-00	MYLAR	0.1MF 5% 50V
C143	1-126-964-11	ELECT	10MF 20% 50V	C246	1-126-965-11	ELECT	22MF 20% 50V
C145	1-126-964-11	ELECT	10MF 20% 50V	C247	1-126-953-11	ELECT	2200MF 20% 35V
C146	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	C248	1-130-495-00	MYLAR	0.1MF 5% 50V
C147	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C249	1-104-661-91	ELECT	330MF 20% 16V
C148	1-164-346-11	CERAMIC CHIP	1MF 16V	C250	1-104-661-91	ELECT	330MF 20% 16V
C149	1-164-346-11	CERAMIC CHIP	1MF 16V	C251	1-126-967-11	ELECT	47MF 20% 50V
C150	1-164-346-11	CERAMIC CHIP	1MF 16V	C257	1-249-429-11	CARBON	10K 5% 1/4W
C151	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C258	1-249-429-11	CARBON	10K 5% 1/4W
C152	1-104-664-11	ELECT	47MF 20% 25V	C262	1-164-161-11	CERAMIC CHIP	0.0022MF 10% 50V
C153	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C263	1-164-161-11	CERAMIC CHIP	0.0022MF 10% 50V
C154	1-126-961-11	ELECT	2.2MF 20% 50V	C264	1-163-017-00	CERAMIC CHIP	0.0047MF 10% 50V
C155	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C265	1-164-346-11	CERAMIC CHIP	1MF 16V
C156	1-163-017-00	CERAMIC CHIP	0.0047MF 10% 50V	C266	1-164-346-11	CERAMIC CHIP	1MF 16V
C157	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C267	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
C158	1-164-161-11	CERAMIC CHIP	0.0022MF 10% 50V	C268	1-126-933-11	ELECT	100MF 20% 16V
C159	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C269	1-163-017-00	CERAMIC CHIP	0.0047MF 10% 50V
C160	1-164-346-11	CERAMIC CHIP	1MF 16V	C270	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
C162	1-126-934-11	ELECT	220MF 20% 16V	C301	1-104-664-11	ELECT	47MF 20% 25V
C163	1-164-346-11	CERAMIC CHIP	1MF 16V	C302	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
C164	1-137-581-11	FILM	0.1MF 5% 100V	C303	1-104-664-11	ELECT	47MF 20% 25V
C165	1-164-346-11	CERAMIC CHIP	1MF 16V	C304	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
C166	1-137-581-11	FILM	0.1MF 5% 100V	C305	1-126-965-11	ELECT	22MF 20% 50V
C167	1-104-664-11	ELECT	47MF 20% 25V	C325	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
C168	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C326	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
C169	1-137-372-11	FILM	0.022MF 5% 50V	C327	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
C170	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V	C370	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
C187	1-137-372-11	FILM	0.022MF 5% 50V	C374	1-126-967-11	ELECT	47MF 20% 50V
C189	1-126-965-11	ELECT	22MF 20% 50V	C375	1-126-967-11	ELECT	47MF 20% 50V
C191	1-137-372-11	FILM	0.022MF 5% 50V	C381	1-216-295-91	SHORT	0
C192	1-136-173-00	FILM	0.47MF 5% 50V	C420	1-104-664-11	ELECT	47MF 20% 25V
C195	1-136-173-00	FILM	0.47MF 5% 50V	C1201	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C198	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V	C1203	1-104-664-11	ELECT	47MF 20% 25V
C199	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	C1204	1-126-933-11	ELECT	100MF 20% 16V
C200	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C1205	1-164-005-11	CERAMIC CHIP	0.47MF 25V
C206	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	C1206	1-164-005-11	CERAMIC CHIP	0.47MF 25V
C207	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	C1207	1-126-966-11	ELECT	33MF 20% 50V
C209	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	C1208	1-104-664-11	ELECT	47MF 20% 25V
C210	1-107-823-11	CERAMIC CHIP	0.47MF 10% 16V	C1209	1-104-664-11	ELECT	47MF 20% 25V
				C1210	1-104-664-11	ELECT	47MF 20% 25V

A

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1213	1-163-251-11	CERAMIC CHIP	100PF 5%	50V	CN123	* 1-564-521-11	PLUG, CONNECTOR 6P
C1214	1-163-009-11	CERAMIC CHIP	0.001MF 10%	50V	CN125	1-766-921-11	CONNECTOR, BOARD TO BOARD 10P
C1215	1-164-346-11	CERAMIC CHIP	1MF	16V	CN126	* 1-564-510-11	PLUG, CONNECTOR 7P
C1216	1-163-009-11	CERAMIC CHIP	0.001MF 10%	50V	CN127	1-695-915-11	TAB (CONTACT)
C1217	1-164-346-11	CERAMIC CHIP	1MF	16V	CN129	1-564-506-11	PLUG, CONNECTOR 3P
C1218	1-104-664-11	ELECT	47MF 20%	25V			
C1219	1-163-031-11	CERAMIC CHIP	0.01MF	50V		<DIODE>	
C1220	1-104-664-11	ELECT	47MF 20%	25V	D001	8-719-109-81	DIODE RD4.7ESB2
C1226	1-164-346-11	CERAMIC CHIP	1MF	16V	D002	8-719-404-49	DIODE MA111
C1227	1-164-346-11	CERAMIC CHIP	1MF	16V	D005	8-719-908-03	DIODE GP08D
C1228	1-126-935-11	ELECT	470MF 20%	16V	D101	8-719-911-19	DIODE 1SS119-25
C1229	1-164-346-11	CERAMIC CHIP	1MF	16V	D102	1-249-431-11	CARBON 15K 5% 1/4W
C1230	1-164-346-11	CERAMIC CHIP	1MF	16V	D103	8-719-988-62	DIODE 1SS355
C1231	1-104-664-11	ELECT	47MF 20%	25V	D104	8-719-914-43	DIODE DAN202K
C1232	1-164-346-11	CERAMIC CHIP	1MF	16V	D105	8-719-988-62	DIODE 1SS355
C1233	1-164-346-11	CERAMIC CHIP	1MF	16V	D106	8-719-106-43	DIODE RD9.1M-B1
C1234	1-104-664-11	ELECT	47MF 20%	25V	D111	8-719-110-22	DIODE RD11ESB2
C1235	1-104-664-11	ELECT	47MF 20%	25V	D112	8-719-106-43	DIODE RD9.1M-B1
C1236	1-163-031-11	CERAMIC CHIP	0.01MF	50V	D117	8-719-400-75	DIODE MA3091
C1237	1-164-004-11	CERAMIC CHIP	0.1MF 10%	25V	D118	8-719-051-66	DIODE MA7120-TA
C1238	1-164-004-11	CERAMIC CHIP	0.1MF 10%	25V	D210	8-719-911-19	DIODE 1SS119-25
C1239	1-104-664-11	ELECT	47MF 20%	25V	D211	8-719-404-49	DIODE MA111
C1240	1-126-964-11	ELECT	10MF 20%	50V	D212	8-719-404-49	DIODE MA111
C1241	1-163-251-11	CERAMIC CHIP	100PF 5%	50V	D218	8-719-914-43	DIODE DAN202K
C1242	1-164-004-11	CERAMIC CHIP	0.1MF 10%	25V	D220	8-719-109-88	DIODE RD5.6ESB1
C1243	1-164-004-11	CERAMIC CHIP	0.1MF 10%	25V	D223	8-719-914-43	DIODE DAN202K
C1244	1-163-251-11	CERAMIC CHIP	100PF 5%	50V	D301	8-719-404-49	DIODE MA111
C1245	1-126-933-11	ELECT	100MF 20%	16V	D303	8-719-914-43	DIODE DAN202K
C1246	1-104-664-11	ELECT	47MF 20%	25V	D352	8-719-109-84	DIODE RD5.1ESB1
C1250	1-163-133-00	CERAMIC CHIP	470PF 5%	50V	D353	8-719-908-03	DIODE GP08D
C1251	1-163-133-00	CERAMIC CHIP	470PF 5%	50V	D1201	8-719-063-16	DIODE HZS9B2-TE
C1252	1-163-133-00	CERAMIC CHIP	470PF 5%	50V	D1202	8-719-063-16	DIODE HZS9B2-TE
C1253	1-163-133-00	CERAMIC CHIP	470PF 5%	50V	D1203	8-719-063-16	DIODE HZS9B2-TE
C1254	1-163-133-00	CERAMIC CHIP	470PF 5%	50V	D1204	8-719-063-16	DIODE HZS9B2-TE
C1255	1-163-133-00	CERAMIC CHIP	470PF 5%	50V	D1205	8-719-063-16	DIODE HZS9B2-TE
C1256	1-163-133-00	CERAMIC CHIP	470PF 5%	50V	D1208	8-719-063-16	DIODE HZS9B2-TE
C1257	1-163-133-00	CERAMIC CHIP	470PF 5%	50V	D1209	8-719-063-16	DIODE HZS9B2-TE
C1258	1-163-251-11	CERAMIC CHIP	100PF 5%	50V	D1210	8-719-063-16	DIODE HZS9B2-TE
C1259	1-163-251-11	CERAMIC CHIP	100PF 5%	50V	D1211	8-719-063-16	DIODE HZS9B2-TE
		<CONNECTOR>			D1212	8-719-063-16	DIODE HZS9B2-TE
CN102	1-569-321-11	SOCKET, CONNECTOR 15P			D1213	8-719-063-16	DIODE HZS9B2-TE
CN103	1-569-321-11	SOCKET, CONNECTOR 15P			D1214	8-719-063-16	DIODE HZS9B2-TE
CN105	* 1-564-506-11	PLUG, CONNECTOR 3P			D1215	8-719-063-16	DIODE HZS9B2-TE
CN106	* 1-779-891-11	CONNECTOR, BOARD TO BOARD 8P			D1216	8-719-063-16	DIODE HZS9B2-TE
CN107	* 1-779-891-11	CONNECTOR, BOARD TO BOARD 8P			D1217	8-719-063-16	DIODE HZS9B2-TE
CN108	* 1-779-891-11	CONNECTOR, BOARD TO BOARD 8P			D1218	8-719-063-16	DIODE HZS9B2-TE
CN109	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P			D1219	8-719-063-16	DIODE HZS9B2-TE
CN114	1-766-921-11	CONNECTOR, BOARD TO BOARD 10P			D1220	8-719-063-16	DIODE HZS9B2-TE
CN115	1-766-956-11	CONNECTOR, BOARD TO BOARD 15P					
CN116	* 1-770-723-11	CONNECTOR, BOARD TO BOARD 8P				<IC>	
CN117	* 1-564-509-11	PLUG, CONNECTOR 6P			IC001	8-752-889-05	IC CXP85340A-226S
CN118	* 1-560-278-21	PLUG, CONNECTOR 4P			IC002	8-759-805-37	IC L78LR05D-MA
CN120	* 1-564-507-11	PLUG, CONNECTOR 4P			IC003	8-759-370-34	IC ST24C08FB6
CN121	* 1-770-747-11	CONNECTOR, BOARD TO BOARD 12P			IC010	8-759-231-53	IC TA7805S
CN122	* 1-564-507-11	PLUG, CONNECTOR 4P			IC080	8-759-708-05	IC NJM78L05A

A

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R029	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R122	1-216-033-00	RES,CHIP	220 5% 1/10W
R030	1-216-097-91	RES,CHIP	100K 5% 1/10W	R123	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R031	1-216-049-91	RES,CHIP	1K 5% 1/10W	R124	1-216-025-91	RES,CHIP	100 5% 1/10W
R032	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R125	1-216-025-91	RES,CHIP	100 5% 1/10W
R033	1-216-049-91	RES,CHIP	1K 5% 1/10W	R126	1-216-025-91	RES,CHIP	100 5% 1/10W
R034	1-216-025-91	RES,CHIP	100 5% 1/10W	R128	1-216-033-00	RES,CHIP	220 5% 1/10W
R035	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R129	1-216-025-91	RES,CHIP	100 5% 1/10W
R036	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R130	1-216-033-00	RES,CHIP	220 5% 1/10W
R038	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R131	1-216-295-91	SHORT	0
R039	1-216-025-91	RES,CHIP	100 5% 1/10W	R132	1-216-033-00	RES,CHIP	220 5% 1/10W
R040	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R133	1-216-025-91	RES,CHIP	100 5% 1/10W
R041	1-216-025-91	RES,CHIP	100 5% 1/10W	R134	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R042	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R135	1-216-295-91	SHORT	0
R043	1-216-081-00	RES,CHIP	22K 5% 1/10W	R136	1-216-295-91	SHORT	0
R044	1-216-073-00	RES,CHIP	10K 5% 1/10W	R138	1-216-025-91	RES,CHIP	100 5% 1/10W
R046	1-216-025-91	RES,CHIP	100 5% 1/10W	R139	1-216-049-91	RES,CHIP	1K 5% 1/10W
R047	1-216-025-91	RES,CHIP	100 5% 1/10W	R140	1-216-041-00	RES,CHIP	470 5% 1/10W
R048	1-216-025-91	RES,CHIP	100 5% 1/10W	R142	1-216-049-91	RES,CHIP	1K 5% 1/10W
R049	1-216-121-91	RES,CHIP	1M 5% 1/10W	R144	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R050	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R145	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R051	1-216-394-00	METAL OXIDE	2.7 5% 3W F	R146	1-216-025-91	RES,CHIP	100 5% 1/10W
R053	1-216-025-91	RES,CHIP	100 5% 1/10W	R148	1-216-105-91	RES,CHIP	220K 5% 1/10W
R054	1-216-073-00	RES,CHIP	10K 5% 1/10W	R149	1-216-041-00	RES,CHIP	470 5% 1/10W
R055	1-216-095-00	RES,CHIP	82K 5% 1/10W	R150	1-216-041-00	RES,CHIP	470 5% 1/10W
R056	1-216-025-91	RES,CHIP	100 5% 1/10W	R152	1-216-075-00	RES,CHIP	12K 5% 1/10W
R057	1-216-049-91	RES,CHIP	1K 5% 1/10W	R153	1-216-021-00	RES,CHIP	68 5% 1/10W
R058	1-216-049-91	RES,CHIP	1K 5% 1/10W	R154	1-216-031-00	RES,CHIP	180 5% 1/10W
R059	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R155	1-216-021-00	RES,CHIP	68 5% 1/10W
R061	1-216-025-91	RES,CHIP	100 5% 1/10W	R156	1-216-031-00	RES,CHIP	180 5% 1/10W
R062	1-216-025-91	RES,CHIP	100 5% 1/10W	R157	1-216-021-00	RES,CHIP	68 5% 1/10W
R063	1-216-025-91	RES,CHIP	100 5% 1/10W	R158	1-216-031-00	RES,CHIP	180 5% 1/10W
R064	1-216-025-91	RES,CHIP	100 5% 1/10W	R159	1-216-033-00	RES,CHIP	220 5% 1/10W
R065	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R160	1-216-073-00	RES,CHIP	10K 5% 1/10W
R066	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R164	1-216-025-91	RES,CHIP	100 5% 1/10W
R069	1-216-049-91	RES,CHIP	1K 5% 1/10W	R170	1-216-037-00	RES,CHIP	330 5% 1/10W
R070	1-216-033-00	RES,CHIP	220 5% 1/10W	R171	1-216-081-00	RES,CHIP	22K 5% 1/10W
R071	1-216-033-00	RES,CHIP	220 5% 1/10W	R172	1-216-097-91	RES,CHIP	100K 5% 1/10W
R072	1-216-073-00	RES,CHIP	10K 5% 1/10W	R173	1-216-081-00	RES,CHIP	22K 5% 1/10W
R073	1-216-073-00	RES,CHIP	10K 5% 1/10W	R174	1-216-105-91	RES,CHIP	220K 5% 1/10W
R074	1-216-079-00	RES,CHIP	18K 5% 1/10W	R175	1-216-075-00	RES,CHIP	12K 5% 1/10W
R075	1-216-073-00	RES,CHIP	10K 5% 1/10W	R176	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R076	1-216-025-91	RES,CHIP	100 5% 1/10W	R177	1-216-049-91	RES,CHIP	1K 5% 1/10W
R077	1-216-025-91	RES,CHIP	100 5% 1/10W	R178	1-216-025-91	RES,CHIP	100 5% 1/10W
R078	1-216-073-00	RES,CHIP	10K 5% 1/10W	R179	1-216-131-11	RES,CHIP	2.7M 5% 1/10W
R081	1-216-049-91	RES,CHIP	1K 5% 1/10W	R180	1-216-033-00	RES,CHIP	220 5% 1/10W
R090	1-216-073-00	RES,CHIP	10K 5% 1/10W	R181	1-216-033-00	RES,CHIP	220 5% 1/10W
R102	1-216-025-91	RES,CHIP	100 5% 1/10W	R182	1-216-033-00	RES,CHIP	220 5% 1/10W
R103	1-216-041-00	RES,CHIP	470 5% 1/10W	R184	1-216-059-00	RES,CHIP	2.7K 5% 1/10W
R104	1-216-077-00	RES,CHIP	15K 5% 1/10W	R186	1-216-001-00	RES,CHIP	10 5% 1/10W
R105	1-216-025-91	RES,CHIP	100 5% 1/10W	R187	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R106	1-216-049-91	RES,CHIP	1K 5% 1/10W	R188	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R107	1-216-033-00	RES,CHIP	220 5% 1/10W	R189	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R108	1-216-049-91	RES,CHIP	1K 5% 1/10W	R191	1-216-025-91	RES,CHIP	100 5% 1/10W
R109	1-216-033-00	RES,CHIP	220 5% 1/10W	R192	1-216-097-91	RES,CHIP	100K 5% 1/10W
R111	1-216-033-00	RES,CHIP	220 5% 1/10W	R201	1-164-346-11	CERAMIC CHIP	1MF 16V
R112	1-216-025-91	RES,CHIP	100 5% 1/10W	R202	1-164-346-11	CERAMIC CHIP	1MF 16V
R121	1-208-806-11	RES,CHIP	10K 0.50% 1/10W				



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R203	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1220	1-216-025-91	RES,CHIP	100	5%	1/10W
R205	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R1221	1-216-073-00	RES,CHIP	10K	5%	1/10W
R207	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R1222	1-216-025-91	RES,CHIP	100	5%	1/10W
R208	1-215-910-00	METAL OXIDE	68	5%	3W F	R1223	1-216-041-00	RES,CHIP	470	5%	1/10W
R209	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1224	1-216-025-91	RES,CHIP	100	5%	1/10W
R210	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1225	1-216-025-91	RES,CHIP	100	5%	1/10W
R211	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1226	1-216-025-91	RES,CHIP	100	5%	1/10W
R213	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1227	1-216-025-91	RES,CHIP	100	5%	1/10W
R214	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1228	1-216-025-91	RES,CHIP	100	5%	1/10W
R215	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1231	1-216-295-91	SHORT	0		
R217	1-216-295-91	SHORT	0			R1232	1-216-033-00	RES,CHIP	220	5%	1/10W
R244	1-249-413-11	CARBON	470	5%	1/4W	R1233	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R245	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R1234	1-216-105-91	RES,CHIP	220K	5%	1/10W
R246	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R1235	1-216-089-91	RES,CHIP	47K	5%	1/10W
R252	1-249-413-11	CARBON	470	5%	1/4W	R1236	1-216-089-91	RES,CHIP	47K	5%	1/10W
R253	1-216-386-11	METAL OXIDE	0.56	5%	3W F	R1237	1-216-105-91	RES,CHIP	220K	5%	1/10W
R254	1-216-295-91	SHORT	0			R1238	1-216-023-00	RES,CHIP	82	5%	1/10W
R255	1-216-308-00	RES,CHIP	4.7	5%	1/10W	R1239	1-216-022-00	RES,CHIP	75	5%	1/10W
R258	1-216-295-91	SHORT	0			R1240	1-216-022-00	RES,CHIP	75	5%	1/10W
R259	1-216-308-00	RES,CHIP	4.7	5%	1/10W	R1241	1-216-097-91	RES,CHIP	100K	5%	1/10W
R267	1-216-041-00	RES,CHIP	470	5%	1/10W	R1242	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R268	1-216-025-91	RES,CHIP	100	5%	1/10W	R1243	1-216-097-91	RES,CHIP	100K	5%	1/10W
R269	1-216-025-91	RES,CHIP	100	5%	1/10W	R1245	1-216-025-91	RES,CHIP	100	5%	1/10W
R270	1-216-025-91	RES,CHIP	100	5%	1/10W	R1246	1-216-035-00	RES,CHIP	270	5%	1/10W
R271	1-216-025-91	RES,CHIP	100	5%	1/10W	R1247	1-216-048-00	RES,CHIP	910	5%	1/10W
R301	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1254	1-216-113-00	RES,CHIP	470K	5%	1/10W
R303	1-216-001-00	RES,CHIP	10	5%	1/10W	R1255	1-216-049-91	RES,CHIP	1K	5%	1/10W
R304	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1256	1-216-113-00	RES,CHIP	470K	5%	1/10W
R305	1-216-025-91	RES,CHIP	100	5%	1/10W	R1257	1-216-049-91	RES,CHIP	1K	5%	1/10W
R306	1-216-025-91	RES,CHIP	100	5%	1/10W	R1258	1-216-113-00	RES,CHIP	470K	5%	1/10W
R344	1-216-049-91	RES,CHIP	1K	5%	1/10W	R1259	1-216-021-00	RES,CHIP	68	5%	1/10W
R363	1-216-295-91	SHORT	0			R1260	1-216-105-91	RES,CHIP	220K	5%	1/10W
R364	1-216-033-00	RES,CHIP	220	5%	1/10W	R1261	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R365	1-216-025-91	RES,CHIP	100	5%	1/10W	R1262	1-216-105-91	RES,CHIP	220K	5%	1/10W
R366	1-216-033-00	RES,CHIP	220	5%	1/10W	R1263	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R368	1-216-035-00	RES,CHIP	270	5%	1/10W	R1264	1-216-022-00	RES,CHIP	75	5%	1/10W
R801	1-216-025-91	RES,CHIP	100	5%	1/10W	R1265	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1200	1-216-033-00	RES,CHIP	220	5%	1/10W	R1266	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1201	1-216-025-91	RES,CHIP	100	5%	1/10W	R1267	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1202	1-216-025-91	RES,CHIP	100	5%	1/10W	R1268	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1203	1-216-033-00	RES,CHIP	220	5%	1/10W	R1269	1-216-022-00	RES,CHIP	75	5%	1/10W
R1204	1-216-031-00	RES,CHIP	180	5%	1/10W	R1270	1-216-022-00	RES,CHIP	75	5%	1/10W
R1205	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1271	1-216-022-00	RES,CHIP	75	5%	1/10W
R1206	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R1272	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1207	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R1273	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1208	1-216-025-91	RES,CHIP	100	5%	1/10W	R1274	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1209	1-216-033-00	RES,CHIP	220	5%	1/10W	R1275	1-216-025-91	RES,CHIP	100	5%	1/10W
R1210	1-216-031-00	RES,CHIP	180	5%	1/10W	R1276	1-216-025-91	RES,CHIP	100	5%	1/10W
R1211	1-216-093-00	RES,CHIP	68K	5%	1/10W	R1277	1-216-025-91	RES,CHIP	100	5%	1/10W
R1212	1-216-025-91	RES,CHIP	100	5%	1/10W	R1278	1-216-025-91	RES,CHIP	100	5%	1/10W
R1213	1-216-073-00	RES,CHIP	10K	5%	1/10W	R1279	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1214	1-216-041-00	RES,CHIP	470	5%	1/10W	R1280	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1215	1-216-025-91	RES,CHIP	100	5%	1/10W	R1281	1-216-023-00	RES,CHIP	82	5%	1/10W
R1216	1-216-025-91	RES,CHIP	100	5%	1/10W	R1282	1-216-048-00	RES,CHIP	910	5%	1/10W
R1217	1-216-025-91	RES,CHIP	100	5%	1/10W	R1283	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1218	1-216-025-91	RES,CHIP	100	5%	1/10W	R1284	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1219	1-216-025-91	RES,CHIP	100	5%	1/10W	R1285	1-216-041-00	RES,CHIP	470	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1286	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	C3321	1-126-967-11	ELECT	47MF 20% 50V
R1287	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	C3322	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
R1288	1-216-089-91	RES,CHIP	47K 5% 1/10W	C3323	1-126-965-11	ELECT	22MF 20% 50V
R1289	1-216-089-91	RES,CHIP	47K 5% 1/10W	C3324	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
R1290	1-249-389-11	CARBON	4.7 5% 1/4W F	C3325	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
R1291	1-216-089-91	RES,CHIP	47K 5% 1/10W	C3326	1-163-227-11	CERAMIC CHIP	10PF 0.5PF 50V
R1292	1-216-089-91	RES,CHIP	47K 5% 1/10W	C3327	1-163-227-11	CERAMIC CHIP	10PF 0.5PF 50V
R1293	1-216-089-91	RES,CHIP	47K 5% 1/10W	C3328	1-126-963-11	ELECT	4.7MF 20% 50V
R1294	1-216-089-91	RES,CHIP	47K 5% 1/10W	C3329	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
R1295	1-216-033-00	RES,CHIP	220 5% 1/10W	C3330	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
R1296	1-216-033-00	RES,CHIP	220 5% 1/10W	C3331	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
R1297	1-216-033-00	RES,CHIP	220 5% 1/10W	C3332	1-163-259-91	CERAMIC CHIP	220PF 5% 50V
R1298	1-216-041-00	RES,CHIP	470 5% 1/10W	C3333	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
R1299	1-216-041-00	RES,CHIP	470 5% 1/10W	C3334	1-126-959-11	ELECT	0.47MF 20% 50V
		<TUNER>		C3335	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
TU001	8-598-372-10	TUNER, FSS BTF-FG441		C3336	1-163-017-00	CERAMIC CHIP	0.0047MF 10% 50V
		<CRYSTAL>		C3337	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
X101	1-577-358-21	VIBRATOR, CERAMIC		C3338	1-163-259-91	CERAMIC CHIP	220PF 5% 50V
X102	1-567-505-11	OSCILLATOR, CRYSTAL		C3342	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
X103	1-567-504-11	OSCILLATOR, CRYSTAL		C3343	1-126-964-11	ELECT	10MF 20% 50V
X104	1-577-611-11	OSCILLATOR, CERAMIC		C3344	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
				C3345	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
				C3346	1-163-243-11	CERAMIC CHIP	47PF 5% 50V
				C3347	1-163-243-11	CERAMIC CHIP	47PF 5% 50V
				C3348	1-163-038-91	CERAMIC CHIP	0.1MF 25V
				C3349	1-126-967-11	ELECT	47MF 20% 50V
				C3350	1-126-964-11	ELECT	10MF 20% 50V
				C3351	1-164-346-11	CERAMIC CHIP	1MF 16V
				C3352	1-164-346-11	CERAMIC CHIP	1MF 16V
				C3353	1-126-965-11	ELECT	22MF 20% 50V
				C3354	1-126-965-11	ELECT	22MF 20% 50V
				C3355	1-163-038-91	CERAMIC CHIP	0.1MF 25V
				C3356	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
				C3357	1-104-664-11	ELECT	47MF 20% 25V
		<CAPACITOR>				<CONNECTOR>	
C3301	1-104-664-11	ELECT	47MF 20% 25V	CN3301*	1-778-770-11	CONNECTOR,BOARD TO BOARD(PLUG)	
C3302	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	CN3302*	1-564-522-11	PLUG, CONNECTOR 7P	
C3303	1-164-346-11	CERAMIC CHIP	1MF 16V	CN3304*	1-564-519-11	PLUG, CONNECTOR 4P	
C3304	1-164-346-11	CERAMIC CHIP	1MF 16V	CN3305*	1-564-518-11	PLUG, CONNECTOR 3P	
C3305	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V			<DIODE>	
C3306	1-164-346-11	CERAMIC CHIP	1MF 16V	D3301	8-719-914-43	DIODE DAN202K	
C3307	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	D3302	8-719-105-91	DIODE RD5.6M-B2	
C3308	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V			<DELAY LINE>	
C3309	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	DL3301	1-415-953-11	DELAY LINE	
C3310	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V			<IC>	
C3311	1-164-336-11	CERAMIC CHIP	0.33MF 25V	IC3301	8-759-437-37	IC TDA9170/N1	
C3312	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	IC3302	8-759-437-36	IC AN5342K	
C3313	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	IC3303	8-752-058-68	IC CXA1315M	
C3314	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	IC3304	8-759-984-03	IC LM339N	
C3315	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	IC3305	8-759-800-81	IC LA7016	
C3316	1-163-038-91	CERAMIC CHIP	0.1MF 25V				
C3317	1-104-664-11	ELECT	47MF 20% 25V				
C3318	1-163-038-91	CERAMIC CHIP	0.1MF 25V				
C3319	1-163-038-91	CERAMIC CHIP	0.1MF 25V				
C3320	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V				

* A-1131-317-A B3 BOARD, COMPLETE

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<CHIP CONDUCTOR>					
JR3303	1-216-295-91	SHORT	0	R3327	1-216-041-00	RES,CHIP	470 5% 1/10W
JR3304	1-216-295-91	SHORT	0	R3328	1-216-033-00	RES,CHIP	220 5% 1/10W
JR3307	1-216-295-91	SHORT	0	R3329	1-216-041-00	RES,CHIP	470 5% 1/10W
JR3308	1-216-295-91	SHORT	0	R3330	1-216-041-00	RES,CHIP	470 5% 1/10W
		<COIL>		R3331	1-216-047-91	RES,CHIP	820 5% 1/10W
L3301	1-408-603-31	INDUCTOR	10UH	R3332	1-216-041-00	RES,CHIP	470 5% 1/10W
L3302	1-408-605-31	INDUCTOR	15UH	R3333	1-216-025-91	RES,CHIP	100 5% 1/10W
L3303	1-408-614-31	INDUCTOR	82UH	R3334	1-216-025-91	RES,CHIP	100 5% 1/10W
L3304	1-408-603-31	INDUCTOR	10UH	R3335	1-216-041-00	RES,CHIP	470 5% 1/10W
L3305	1-408-614-31	INDUCTOR	82UH	R3336	1-216-041-00	RES,CHIP	470 5% 1/10W
L3306	1-408-601-31	INDUCTOR	6.8UH	R3337	1-216-033-00	RES,CHIP	220 5% 1/10W
L3307	1-408-601-31	INDUCTOR	6.8UH	R3338	1-216-041-00	RES,CHIP	470 5% 1/10W
L3308	1-408-607-31	INDUCTOR	22UH	R3339	1-216-041-00	RES,CHIP	470 5% 1/10W
L3309	1-408-607-31	INDUCTOR	22UH	R3340	1-216-047-91	RES,CHIP	820 5% 1/10W
		<TRANSISTOR>		R3341	1-216-041-00	RES,CHIP	470 5% 1/10W
Q3301	8-729-230-49	TRANSISTOR 2SC2712-YG		R3342	1-216-025-91	RES,CHIP	100 5% 1/10W
Q3302	8-729-230-49	TRANSISTOR 2SC2712-YG		R3343	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q3304	8-729-230-49	TRANSISTOR 2SC2712-YG		R3344	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
Q3305	8-729-230-49	TRANSISTOR 2SC2712-YG		R3345	1-216-089-91	RES,CHIP	47K 5% 1/10W
Q3306	8-729-230-49	TRANSISTOR 2SC2712-YG		R3346	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
Q3307	8-729-230-49	TRANSISTOR 2SC2712-YG		R3347	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
Q3308	8-729-230-49	TRANSISTOR 2SC2712-YG		R3348	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
Q3309	8-729-230-49	TRANSISTOR 2SC2712-YG		R3349	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
Q3310	8-729-230-49	TRANSISTOR 2SC2712-YG		R3351	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
Q3312	8-729-216-22	TRANSISTOR 2SA1162-G		R3353	1-216-075-00	RES,CHIP	12K 5% 1/10W
Q3313	8-729-230-49	TRANSISTOR 2SC2712-YG		R3354	1-216-037-00	RES,CHIP	330 5% 1/10W
Q3314	8-729-230-49	TRANSISTOR 2SC2712-YG		R3355	1-216-029-00	RES,CHIP	150 5% 1/10W
Q3315	8-729-027-43	TRANSISTOR DTC114EKA-T146		R3357	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
Q3316	8-729-230-49	TRANSISTOR 2SC2712-YG		R3358	1-216-029-00	RES,CHIP	150 5% 1/10W
Q3317	8-729-230-49	TRANSISTOR 2SC2712-YG		R3359	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q3318	8-729-230-49	TRANSISTOR 2SC2712-YG		R3360	1-216-025-91	RES,CHIP	100 5% 1/10W
Q3319	8-729-216-22	TRANSISTOR 2SA1162-G		R3361	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q3320	8-729-230-49	TRANSISTOR 2SC2712-YG		R3362	1-216-045-00	RES,CHIP	680 5% 1/10W
		<RESISTOR>		R3363	1-216-035-00	RES,CHIP	270 5% 1/10W
R3301	1-216-025-91	RES,CHIP	100 5% 1/10W	R3364	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R3302	1-216-025-91	RES,CHIP	100 5% 1/10W	R3365	1-216-043-91	RES,CHIP	560 5% 1/10W
R3303	1-216-017-91	RES,CHIP	47 5% 1/10W	R3366	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R3304	1-216-017-91	RES,CHIP	47 5% 1/10W	R3367	1-216-037-00	RES,CHIP	330 5% 1/10W
R3305	1-216-017-91	RES,CHIP	47 5% 1/10W	R3372	1-216-689-11	RES,CHIP	39K 5% 1/10W
R3307	1-216-033-00	RES,CHIP	220 5% 1/10W	R3373	1-216-689-11	RES,CHIP	39K 5% 1/10W
R3308	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3374	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R3309	1-216-033-00	RES,CHIP	220 5% 1/10W	R3375	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R3312	1-216-033-00	RES,CHIP	220 5% 1/10W	R3376	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3313	1-216-295-91	SHORT	0	R3377	1-216-115-00	RES,CHIP	560K 5% 1/10W
R3314	1-216-295-91	SHORT	0	R3378	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R3315	1-216-295-91	SHORT	0	R3379	1-216-295-91	SHORT	0
R3319	1-216-073-00	RES,CHIP	10K 5% 1/10W	R3381	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R3325	1-216-025-91	RES,CHIP	100 5% 1/10W	R3384	1-216-095-00	RES,CHIP	82K 5% 1/10W
R3326	1-216-041-00	RES,CHIP	470 5% 1/10W	R3385	1-216-049-91	RES,CHIP	1K 5% 1/10W
				R3386	1-216-041-00	RES,CHIP	470 5% 1/10W
				R3390	1-216-039-00	RES,CHIP	390 5% 1/10W
				R3391	1-216-025-91	RES,CHIP	100 5% 1/10W
				R3392	1-216-025-91	RES,CHIP	100 5% 1/10W
				R3393	1-216-073-00	RES,CHIP	10K 5% 1/10W
				R3394	1-216-043-91	RES,CHIP	560 5% 1/10W
				R3396	1-216-033-00	RES,CHIP	220 5% 1/10W
				R3397	1-216-049-91	RES,CHIP	1K 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R3398	1-216-085-00	RES,CHIP	33K 5% 1/10W	C711	1-107-651-11	ELECT 4.7MF 20%	250V
R3399	1-216-073-00	RES,CHIP	10K 5% 1/10W	C712	1-101-006-00	CERAMIC 0.047MF	50V
R3401	1-216-025-91	RES,CHIP	100 5% 1/10W	C714	1-101-006-00	CERAMIC 0.047MF	50V
R3402	1-216-049-91	RES,CHIP	1K 5% 1/10W	C715	1-101-006-00	CERAMIC 0.047MF	50V
R3403	1-216-049-91	RES,CHIP	1K 5% 1/10W	C716	1-102-157-00	CERAMIC 560PF 10%	500V
R3404	1-216-049-91	RES,CHIP	1K 5% 1/10W	C717	1-102-157-00	CERAMIC 560PF 10%	500V
R3405	1-216-077-00	RES,CHIP	15K 5% 1/10W	C718	1-102-157-00	CERAMIC 560PF 10%	500V
R3406	1-216-689-11	RES,CHIP	39K 5% 1/10W	C719	1-102-074-00	CERAMIC 0.001MF 10%	50V
R3407	1-216-041-00	RES,CHIP	470 5% 1/10W	C720	1-136-627-11	FILM 0.022MF 3%	1KV
R3408	1-216-041-00	RES,CHIP	470 5% 1/10W	C721	1-107-651-11	ELECT 4.7MF 20%	250V
R3409	1-216-033-00	RES,CHIP	220 5% 1/10W	C725	1-107-651-11	ELECT 4.7MF 20%	250V
R3410	1-216-073-00	RES,CHIP	10K 5% 1/10W			<CONNECTOR>	
R3411	1-216-049-91	RES,CHIP	1K 5% 1/10W	CN701	* 1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
R3412	1-216-085-00	RES,CHIP	33K 5% 1/10W	CN703	* 1-564-509-11	PLUG, CONNECTOR 6P	
R3413	1-216-041-00	RES,CHIP	470 5% 1/10W	CN704	1-695-915-11	TAB (CONTACT)	
R3414	1-216-017-91	RES,CHIP	47 5% 1/10W			<DIODE>	
R3415	1-216-081-00	RES,CHIP	22K 5% 1/10W	D704	8-719-911-19	DIODE 1SS119-25	
R3417	1-216-081-00	RES,CHIP	22K 5% 1/10W	D705	8-719-911-19	DIODE 1SS119-25	
R3418	1-216-081-00	RES,CHIP	22K 5% 1/10W	D707	8-719-911-19	DIODE 1SS119-25	
R3419	1-216-077-00	RES,CHIP	15K 5% 1/10W	D709	8-719-051-85	DIODE HSS83TD	
R3420	1-216-077-00	RES,CHIP	15K 5% 1/10W	D710	8-719-051-85	DIODE HSS83TD	
R3421	1-216-073-00	RES,CHIP	10K 5% 1/10W	D711	8-719-051-85	DIODE HSS83TD	
R3422	1-216-073-00	RES,CHIP	10K 5% 1/10W	D712	8-719-908-03	DIODE GP08D	
R3423	1-216-073-00	RES,CHIP	10K 5% 1/10W	D713	8-719-109-72	DIODE RD3.9ESB2	
R3424	1-208-803-11	RES,CHIP	7.5K 0.50% 1/10W	D714	8-719-911-19	DIODE 1SS119-25	
R3425	1-208-780-11	RES,CHIP	820 0.50% 1/10W	D715	8-719-911-19	DIODE 1SS119-25	
R3426	1-208-781-11	RES,CHIP	910 0.50% 1/10W	D716	8-719-911-19	DIODE 1SS119-25	
R3427	1-216-295-91	SHORT	0			<IC>	
R3428	1-216-073-00	RES,CHIP	10K 5% 1/10W	IC701	8-759-346-42	IC TDA6101Q/N3	
R3429	1-216-025-91	RES,CHIP	100 5% 1/10W	IC702	8-759-346-42	IC TDA6101Q/N3	
R3430	1-216-083-00	RES,CHIP	27K 5% 1/10W	IC703	8-759-346-42	IC TDA6101Q/N3	
R3431	1-216-065-91	RES,CHIP	4.7K 5% 1/10W			<JACK>	
R3432	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	J701	1-540-071-22	SOCKET, CRT	
R3433	1-216-077-00	RES,CHIP	15K 5% 1/10W			<COIL>	
R3440	1-208-798-11	RES,CHIP	4.7K 0.50% 1/10W	L701	1-410-667-31	INDUCTOR 22UH	
*****						<TRANSISTOR>	
* A-1331-780-A	C1 BOARD, COMPLETE			Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	*****					<RESISTOR>	
	<CAPACITOR>			R701	1-247-807-31	CARBON 100 5%	1/4W
C701	1-102-114-00	CERAMIC	470PF 10% 50V	R702	1-249-417-11	CARBON 1K 5%	1/4W
C702	1-128-551-11	ELECT	22MF 20% 25V	R703	1-249-437-11	CARBON 47K 5%	1/4W
C703	1-104-664-11	ELECT	47MF 20% 25V	R704	1-215-413-00	METAL 470 1%	1/4W
C704	1-102-953-00	CERAMIC	18PF 5% 50V	R705	1-249-441-11	CARBON 100K 5%	1/4W
C705	1-102-951-00	CERAMIC	15PF 5% 50V				
C706	1-102-960-00	CERAMIC	24PF 5% 50V				
C707	1-107-651-11	ELECT	4.7MF 20% 250V				
C708	1-124-903-11	ELECT	1MF 20% 50V				
C709	1-101-006-00	CERAMIC	0.047MF 50V				
C710	1-107-651-11	ELECT	4.7MF 20% 250V				

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

B₃ **D**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R707	1-215-422-00	METAL	1.1K 1% 1/4W	C622 Δ	1-113-900-51	CERAMIC	470PF 10% 250V
R708	1-215-422-00	METAL	1.1K 1% 1/4W	C623	1-126-943-11	ELECT	2200MF 20% 25V
R709	1-215-423-00	METAL	1.2K 1% 1/4W	C624	1-102-002-00	CERAMIC	680PF 10% 500V
R710	1-215-413-00	METAL	470 1% 1/4W	C625	1-126-933-11	ELECT	100MF 20% 16V
R711	1-249-421-11	CARBON	2.2K 5% 1/4W	C626	1-102-074-00	CERAMIC	0.001MF 10% 50V
R718	1-247-843-11	CARBON	3.3K 5% 1/4W	C629	1-162-116-00	CERAMIC	680PF 10% 2KV
R719	1-247-843-11	CARBON	3.3K 5% 1/4W	C630	1-162-116-00	CERAMIC	680PF 10% 2KV
R720	1-247-843-11	CARBON	3.3K 5% 1/4W	C631	1-162-622-11	CERAMIC	330PF 10% 6.3KV
R722	1-249-435-11	CARBON	33K 5% 1/4W	C632	1-107-368-11	MYLAR	0.047MF 99% 200V
R725	1-215-903-11	METAL OXIDE	68K 5% 2W F	C633	1-162-318-11	CERAMIC	0.001MF 10% 500V
R727	1-215-903-11	METAL OXIDE	68K 5% 2W F	C640	1-126-935-11	ELECT	470MF 20% 16V
R729	1-215-903-11	METAL OXIDE	68K 5% 2W F	C641	1-126-941-11	ELECT	470MF 20% 25V
R731	1-247-752-11	CARBON	1K 5% 1/2W	C642	1-102-212-00	CERAMIC	820PF 10% 500V
R732	1-247-752-11	CARBON	1K 5% 1/2W	C643	1-164-645-11	CERAMIC	1000PF 10% 500V
R733	1-247-752-11	CARBON	1K 5% 1/2W	C644	1-102-212-00	CERAMIC	820PF 10% 500V
R734	1-247-739-11	CARBON	100 5% 1/2W	C683	1-126-768-11	ELECT	2200MF 20% 16V
R735	1-244-941-00	CARBON	680K 5% 1/2W	C684	1-126-768-11	ELECT	2200MF 20% 16V
R737	1-249-496-11	CARBON	100K 5% 1/2W	C808	1-162-114-00	CERAMIC	0.0047MF 2KV
R738	1-249-489-11	CARBON	22K 5% 1/2W	C814	1-126-933-11	ELECT	100MF 20% 16V
R740	1-216-389-11	METAL OXIDE	1 5% 3W F	C816	1-102-244-00	CERAMIC	220PF 10% 500V
R743	1-214-931-00	CARBON	560K 5% 1/2W	C835	1-126-941-11	ELECT	470MF 20% 25V
		<VARIABLE RESISTOR>		C836	1-102-228-00	CERAMIC	470PF 10% 500V
RV701	1-241-656-21	RES, ADJ, METAL FILM 110M		C839	1-107-655-11	ELECT	47MF 20% 250V
RV702	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M		C840	1-126-942-61	ELECT	1000MF 20% 25V
				C841	1-102-228-00	CERAMIC	470PF 10% 500V
				C842	1-106-387-00	MYLAR	0.068MF 10% 200V
				C846	1-123-024-21	ELECT	33MF 160V
				C875	1-102-038-00	CERAMIC	0.001MF 500V
				C877	1-126-959-11	ELECT	0.47MF 20% 50V
				C1501	1-102-820-00	CERAMIC	330PF 5% 50V
				C1503	1-102-820-00	CERAMIC	330PF 5% 50V
				C1504	1-126-941-11	ELECT	470MF 20% 25V
				C1505	1-126-969-11	ELECT	220MF 20% 50V
				C1506	1-136-171-00	FILM	0.33MF 5% 50V
				C1507	1-106-220-00	MYLAR	0.1MF 10% 100V
				C1509	1-109-953-11	ELECT	2.2MF 20% 50V
				C1511	1-126-933-11	ELECT	100MF 20% 16V
				C1514	1-136-165-00	FILM	0.1MF 5% 50V
				C1515	1-136-165-00	FILM	0.1MF 5% 50V
				C1518	1-130-495-00	MYLAR	0.1MF 5% 50V
				C1519	1-130-495-00	MYLAR	0.1MF 5% 50V
				C1520	1-126-933-11	ELECT	100MF 20% 16V
				C1521	1-126-967-11	ELECT	47MF 20% 50V
				C1579	1-126-941-11	ELECT	470MF 20% 25V
				C1805	1-129-765-00	FILM	0.047MF 5% 200V
				C1806	1-136-155-00	FILM	0.015MF 5% 50V
				C1807	1-136-175-00	FILM	0.68MF 5% 50V
				C2500	1-130-491-00	MYLAR	0.047MF 5% 50V
				C2502	1-137-399-11	FILM	0.1MF 5% 50V
				C2503	1-137-372-11	FILM	0.022MF 5% 50V
				C2504	1-104-665-11	ELECT	100MF 20% 25V
				C2506	1-130-495-00	MYLAR	0.1MF 5% 50V
				C2507	1-107-638-11	ELECT	33MF 20% 160V
				C2508	1-129-898-00	FILM	0.0022MF 10% 630V
				C2514	1-102-244-00	CERAMIC	220PF 10% 500V
				C2515	1-137-417-11	MYLAR	0.0047MF 10% 200V
				C2517	1-162-116-00	CERAMIC	680PF 10% 2KV
C602	1-107-929-11	ELECT	10MF 20% 100V				
C603	1-107-883-11	ELECT	330MF 20% 16V				
C604	1-102-074-00	CERAMIC	0.001MF 10% 50V				
C605	1-161-754-00	CERAMIC	0.001MF 10% 3KV				
C607	1-102-002-00	CERAMIC	680PF 10% 500V				
C608	1-128-339-11	ELECT	2200MF 20% 16V				
C609	1-107-928-11	ELECT	4.7MF 20% 100V				
C610	1-161-754-00	CERAMIC	0.001MF 10% 3KV				
C611	1-102-002-00	CERAMIC	680PF 10% 500V				
C612	1-102-002-00	CERAMIC	680PF 10% 500V				
C613	1-125-494-11	ELECT(BLOCK)	560MF 20% 160V				
C614	1-107-890-11	ELECT	2200MF 20% 25V				
C615	1-128-549-11	ELECT	3300MF 20% 35V				
C616	1-128-549-11	ELECT	3300MF 20% 35V				
C617	1-102-002-00	CERAMIC	680PF 10% 500V				
C618	1-128-528-11	ELECT	470MF 20% 16V				
C620	1-164-625-11	CERAMIC	680PF 10% 500V				
C621	1-164-625-11	CERAMIC	680PF 10% 500V				

* A-1346-727-A D BOARD, COMPLETE

1-900-233-37 LEAD ASSY, FOCUS
4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

D

The components identified by shading
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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C2518	1-162-116-00	CERAMIC	680PF 10% 2KV	D606	8-719-302-43	DIODE EL1Z	
C2519	1-136-897-11	FILM	0.021MF 3% 2KV	D607	8-719-510-73	DIODE S3L20UF4	
C2520	1-162-135-11	CERAMIC	560PF 10% 2KV	D608	8-719-979-85	DIODE EGP20G	
C2521	1-129-723-00	FILM	0.056MF 5% 630V	D609	8-719-312-10	DIODE RU4AM-T3	
C2522	1-107-368-11	MYLAR	0.047MF 99% 200V	D611	8-719-510-37	DIODE D5LC20U	
C2523	1-102-002-00	CERAMIC	680PF 10% 500V	D612	8-719-110-02	DIODE RD7.5ESB1	
C2524	1-102-212-00	CERAMIC	820PF 10% 500V	D614	8-719-911-19	DIODE ISS119-25	
C2526	1-115-520-11	FILM	0.68MF 5% 250V	D616	8-719-510-26	DIODE D1NL20	
C2527	1-107-683-11	ELECT	2.2MF 0 250V	D618	1-249-417-11	CARBON 1K 5% 1/4W	
C2528	1-117-678-11	FILM	3MF 5% 200V	D619	8-719-911-19	DIODE ISS119-25	
C2529	1-106-343-00	MYLAR	0.001MF 10% 200V	D620	8-719-510-73	DIODE S3L20UF4	
C2530	1-109-947-11	FILM	0.72MF 5% 200V	D621	8-719-110-36	DIODE RD13ESB2	
C2540	1-130-475-00	MYLAR	0.0022MF 5% 50V	D633	8-719-911-19	DIODE ISS119-25	
C2541	1-130-477-00	FILM	0.0033MF 5% 50V	D801	8-719-018-82	DIODE RGP02-20EL-6394	
C2542	1-130-483-00	MYLAR	0.01MF 5% 50V	D803	8-719-911-19	DIODE ISS119-25	
C2545	1-126-963-11	ELECT	4.7MF 20% 50V	D814	8-719-302-43	DIODE EL1Z	
C2547	1-102-112-00	CERAMIC	330PF 10% 50V	D815	8-719-302-43	DIODE EL1Z	
C2561	1-162-815-11	CERAMIC	47PF 5% 500V	D816	8-719-302-43	DIODE EL1Z	
C2599	1-130-483-00	MYLAR	0.01MF 5% 50V	D824	8-719-028-72	DIODE RGP02-17EL-6433	
C2601 Δ	1-113-900-51	CERAMIC	470PF 10% 250V	D825	8-719-911-19	DIODE ISS119-25	
C2602 Δ	1-136-360-51	FILM	0.22MF 20% 250V	D1501	8-719-911-19	DIODE ISS119-25	
C2603 Δ	1-113-900-51	CERAMIC	470PF 10% 250V	D1502	8-719-150-92	DIODE RD33EB3T	
C2604 Δ	1-136-360-51	FILM	0.22MF 20% 250V	D1503	8-719-908-03	DIODE GP08D	
C2605	1-107-909-11	ELECT	47MF 20% 50V	D1505	8-719-911-19	DIODE ISS119-25	
C2606	1-161-830-00	CERAMIC	0.0047MF 99% 500V	D1506	8-719-911-19	DIODE ISS119-25	
C2607	1-161-830-00	CERAMIC	0.0047MF 99% 500V	D1507	8-719-911-19	DIODE ISS119-25	
C2609	1-161-830-00	CERAMIC	0.0047MF 99% 500V	D1508	8-719-911-19	DIODE ISS119-25	
C2610	1-161-830-00	CERAMIC	0.0047MF 99% 500V	D1509	8-719-911-19	DIODE ISS119-25	
C2613	1-136-175-00	FILM	0.68MF 5% 50V	D1510	8-719-911-19	DIODE ISS119-25	
C2617	1-109-841-11	ELECT(BLOCK)	560MF 20% 400V	D1511	8-719-911-19	DIODE ISS119-25	
C2620 Δ	1-136-360-51	FILM	0.22MF 20% 250V	D1805	8-719-302-43	DIODE EL1Z	
		<CONNECTOR>		D1806	8-719-911-19	DIODE ISS119-25	
CN506 *	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P	D2500	8-719-109-89	DIODE RD5.6ESB2	
CN518 *	1-564-508-11	PLUG, CONNECTOR	5P	D2501	8-719-911-19	DIODE ISS119-25	
CN520 *	1-779-889-11	CONNECTOR, BOARD TO BOARD	8P	D2502	8-719-911-19	DIODE ISS119-25	
CN525	1-695-915-11	TAB (CONTACT)		D2506	8-719-945-80	DIODE ERC06-15S	
CN526 *	1-779-889-11	CONNECTOR, BOARD TO BOARD	8P	D2507	8-719-945-80	DIODE ERC06-15S	
CN527	1-695-915-11	TAB (CONTACT)		D2508	8-719-900-26	DIODE ERD29-08J	
CN528 *	1-779-889-11	CONNECTOR, BOARD TO BOARD	8P	D2509	8-719-302-43	DIODE EL1Z	
CN530	1-695-915-11	TAB (CONTACT)		D2510	8-719-908-03	DIODE GP08D	
CN0521 *	1-508-766-00	PIN, CONNECTOR (5MM PITCH)	4P	D2511	8-719-908-03	DIODE GP08D	
CN0522	1-764-610-11	CONNECTOR, BOARD TO BOARD	10P	D2515	8-719-911-19	DIODE ISS119-25	
CN0523	1-764-610-11	CONNECTOR, BOARD TO BOARD	10P	D2600	8-719-510-53	DIODE D4SB60L	
CN2600 *	1-691-291-11	PIN, CONNECTOR (PC BOARD)	5P	D2602	8-719-911-19	DIODE ISS119-25	
CN2601 *	1-564-518-11	PLUG, CONNECTOR	3P	D2603	8-719-108-18	THIRSTER 5P6M	
CN2602	1-508-786-00	PIN, CONNECTOR (5MM PITCH)	2P	D2604	8-719-110-06	DIODE RD8.2ESB1	
CN2605 *	1-508-765-00	PIN, CONNECTOR (5MM PITCH)	3P			<CONNECTOR>	
		<DIODE>		DY1 *	1-580-798-11	CONNECTOR PIN (DY) 6P	
D601	8-719-110-08	DIODE RD8.2ESB2				<FERRITE BEAD>	
D602	8-719-510-26	DIODE D1NL20		FB600	1-410-397-21	FERRITE 1.1UH	
D603	8-719-510-26	DIODE D1NL20		FB601	1-410-396-41	FERRITE 0.45UH	
D604	8-719-510-37	DIODE D5LC20U		FB602	1-410-397-21	FERRITE 1.1UH	
D605	8-719-911-19	DIODE ISS119-25		FB603	1-410-397-21	FERRITE 1.1UH	
				FB604	1-410-397-21	FERRITE 1.1UH	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
FB605	1-410-397-21	FERRITE	1.1UH			<RESISTOR>	
FB607	1-410-397-21	FERRITE	1.1UH				
FB2501	1-410-397-21	FERRITE	1.1UH	R601	1-215-923-00	METAL OXIDE 10K	5% 3W F
FB2502	1-410-397-21	FERRITE	1.1UH	R602	1-249-417-11	CARBON 1K	5% 1/4W F
				R603	1-215-901-00	METAL OXIDE 33K	5% 2W F
				R604	1-216-400-11	METAL OXIDE 8.2	5% 3W F
		<IC>		R605	1-219-134-11	FUSIBLE 0.1	10% 1/4W
IC601	8-749-010-92	IC STR-S6709		R606	1-216-422-11	METAL OXIDE 18	5% 1W F
IC601	8-749-013-99	IC STR-S6709N		R607	1-247-843-11	CARBON 3.3K	5% 1/4W
IC602	8-749-920-61	IC SE-135N		R608	1-215-877-11	METAL OXIDE 22K	5% 1W F
IC603 Δ	8-749-924-35	PHOTO COUPLER ON3171-R		R609	1-260-108-11	CARBON 5.6K	5% 1/2W
IC1501	8-759-980-58	IC TDA8172		R611	1-202-933-61	FUSIBLE 0.1	10% 1/2W F
IC2504	8-759-729-03	IC NJM2903D		R612	1-249-420-11	CARBON 1.8K	5% 1/4W
		<COIL>		R614	1-249-418-11	CARBON 1.2K	5% 1/4W
L600	1-410-396-41	FERRITE	0.45UH	R615	1-249-377-11	CARBON 0.47	5% 1/4W F
L601	1-410-396-41	FERRITE	0.45UH	R616	1-215-886-11	METAL OXIDE 100	5% 2W F
L602	1-412-531-31	INDUCTOR	33UH	R618	1-207-612-00	METAL 0.1	10% 2W
L604	1-412-531-31	INDUCTOR	33UH	R619	1-247-807-31	CARBON 100	5% 1/4W
L605	1-412-527-11	INDUCTOR	15UH	R620	1-249-425-11	CARBON 4.7K	5% 1/4W
L606	1-412-527-11	INDUCTOR	15UH	R621	1-249-377-11	CARBON 0.47	5% 1/4W F
L607	1-406-978-11	INDUCTOR	0UH	R622	1-247-807-31	CARBON 100	5% 1/4W
L802	1-408-947-00	INDUCTOR	2.2MMH	R624	1-533-790-31	LINK, IC	
L812	1-412-525-31	INDUCTOR	10UH	R625	1-533-790-31	LINK, IC	
L815	1-412-525-31	INDUCTOR	10UH	R626	1-533-790-31	LINK, IC	
L816	1-412-525-31	INDUCTOR	10UH	R628	1-260-072-11	CARBON 4.7	5% 1/2W
L1501	1-412-525-31	INDUCTOR	10UH	R634	1-247-807-31	CARBON 100	5% 1/4W
L1502	1-412-525-31	INDUCTOR	10UH	R635	1-249-413-11	CARBON 470	5% 1/4W
L1503	1-412-525-31	INDUCTOR	10UH	R690	1-249-416-11	CARBON 820	5% 1/4W
L1805	1-459-104-00	COIL, WITH CORE		R804	1-217-778-11	FUSIBLE 1K	5% 1W F
L1806	1-459-075-00	COIL,DYNAMIC CONVERSION CHOKE		R836	1-215-465-00	METAL 68K	1% 1/4W
L2505	1-459-104-00	COIL, WITH CORE		R853	1-249-470-11	CARBON 0.47	5% 1/2W F
L2506	1-422-613-11	COIL, AIR CORE		R854	1-249-470-11	CARBON 0.47	5% 1/2W F
L2508	1-412-553-11	INDUCTOR	3.3MMH	R855	1-202-818-00	SOLID 1K	20% 1/2W
L2510	1-459-111-00	INDUCTOR	0UH	R858	1-215-433-00	METAL 3.3K	1% 1/4W
		<TRANSISTOR>		R860	1-249-438-11	CARBON 56K	5% 1/4W
Q600	8-729-028-34	TRANSISTOR 2SD1640Q,R		R861	1-249-438-11	CARBON 56K	5% 1/4W
Q601	8-729-203-79	TRANSISTOR 2SA1315-Y		R868	1-215-451-00	METAL 18K	1% 1/4W
Q602	8-729-119-80	TRANSISTOR 2SC2688-LK		R869	1-215-451-00	METAL 18K	1% 1/4W
Q603	8-729-920-24	TRANSISTOR DTD114ES		R871	1-215-451-00	METAL 18K	1% 1/4W
Q803	8-729-200-17	TRANSISTOR 2SA1091-O		R876	1-249-421-11	CARBON 2.2K	5% 1/4W F
Q1501	8-729-119-78	TRANSISTOR 2SC2785-HFE		R884	1-260-199-11	CARBON 200K	5% 1/2W
Q1502	8-729-119-76	TRANSISTOR 2SA1175-HFE		R885	1-249-470-11	CARBON 0.47	5% 1/2W F
Q1503	8-729-119-76	TRANSISTOR 2SA1175-HFE		R886	1-216-370-11	METAL OXIDE 1.2	5% 2W F
Q1804	8-729-119-78	TRANSISTOR 2SC2785-HFE		R887	1-249-420-11	CARBON 1.8K	5% 1/4W F
Q1805	8-729-195-82	TRANSISTOR 2SC2958-L		R890	1-260-125-11	CARBON 150K	5% 1/2W
Q2501	8-729-119-76	TRANSISTOR 2SA1175-HFE		R892	1-249-425-11	CARBON 4.7K	5% 1/4W
Q2502	8-729-119-80	TRANSISTOR 2SC2688-LK		R894	1-215-487-00	METAL 560K	1% 1/4W
Q2503	8-729-017-06	TRANSISTOR 2SC4793		R895	1-249-432-11	CARBON 18K	5% 1/4W
Q2505	8-729-119-78	TRANSISTOR 2SC2785-HFE		R898	1-215-485-00	METAL 470K	1% 1/4W
Q2591	8-729-016-32	TRANSISTOR 2SC4927-01		R1501	1-215-445-00	METAL 10K	1% 1/4W
Q2600	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1502	1-215-443-00	METAL 8.2K	1% 1/4W
Q2601	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1503	1-249-431-11	CARBON 15K	5% 1/4W
				R1504	1-249-425-11	CARBON 4.7K	5% 1/4W
				R1506	1-249-435-11	CARBON 33K	5% 1/4W
				R1508	1-215-445-00	METAL 10K	1% 1/4W
				R1509	1-215-443-00	METAL 8.2K	1% 1/4W
				R1511	1-215-913-11	METAL OXIDE 220	5% 3W F

D	DF
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REF. NO.	PART NO.	DESCRIPTION	REMARK
R1513	1-215-405-00	METAL 220	1% 1/4W
R1514	1-215-453-00	METAL 22K	1% 1/4W
R1515	1-249-383-11	CARBON 1.5	5% 1/4W F
R1516	1-249-426-11	CARBON 5.6K	5% 1/4W
R1517	1-249-426-11	CARBON 5.6K	5% 1/4W
R1518	1-249-425-11	CARBON 4.7K	5% 1/4W
R1519	1-249-431-11	CARBON 15K	5% 1/4W
R1520	1-216-364-11	METAL OXIDE 0.39	5% 2W F
R1523	1-247-807-31	CARBON 100	5% 1/4W
R1524	1-247-863-91	CARBON 22K	5% 1/4W
R1525	1-249-441-11	CARBON 100K	5% 1/4W
R1550	1-249-429-11	CARBON 10K	5% 1/4W
R1551	1-247-843-11	CARBON 3.3K	5% 1/4W
R1814	1-260-111-11	CARBON 10K	5% 1/2W
R1815	1-260-111-11	CARBON 10K	5% 1/2W
R1816	1-247-843-11	CARBON 3.3K	5% 1/4W
R1817	1-249-441-11	CARBON 100K	5% 1/4W
R1818	1-249-421-11	CARBON 2.2K	5% 1/4W
R1819	1-215-886-11	METAL OXIDE 100	5% 2W F
R1820	1-216-434-11	METAL OXIDE 1.8K	5% 1W F
R2501	1-249-381-11	CARBON 1	5% 1/4W F
R2503	1-216-354-11	METAL OXIDE 2.7	5% 1W F
R2504	1-249-441-11	CARBON 100K	5% 1/4W
R2506	1-216-470-00	METAL OXIDE 18	5% 3W F
R2511	1-215-925-11	METAL OXIDE 22K	5% 3W F
R2512	1-247-891-00	CARBON 330K	5% 1/4W
R2513	1-249-429-11	CARBON 10K	5% 1/4W
R2514	1-249-415-11	CARBON 680	5% 1/4W F
R2516	1-249-401-11	CARBON 47	5% 1/4W
R2517	1-215-917-11	METAL OXIDE 1K	5% 3W F
R2518	1-215-917-11	METAL OXIDE 1K	5% 3W F
R2519	1-247-722-11	CARBON 5.6K	5% 1/4W F
R2520	1-247-843-11	CARBON 3.3K	5% 1/4W
R2521	1-249-411-11	CARBON 330	5% 1/4W
R2522	1-216-450-00	METAL OXIDE 82	5% 2W F
R2523	1-215-861-00	METAL OXIDE 47	5% 1W F
R2524	1-247-887-00	CARBON 220K	5% 1/4W
R2525	1-215-884-11	METAL OXIDE 47	5% 2W F
R2526	1-249-437-11	CARBON 47K	5% 1/4W
R2527	1-216-424-11	METAL OXIDE 39	5% 1W F
R2528	1-247-750-11	CARBON 680	5% 1/2W F
R2530	1-247-843-11	CARBON 3.3K	5% 1/4W
R2531	1-249-421-11	CARBON 2.2K	5% 1/4W
R2533	1-249-381-11	CARBON 1	5% 1/4W F
R2534	1-249-417-11	CARBON 1K	5% 1/4W
R2535	1-249-421-11	CARBON 2.2K	5% 1/4W
R2536	1-249-420-11	CARBON 1.8K	5% 1/4W
R2543	1-249-419-11	CARBON 1.5K	5% 1/4W
R2546	1-249-440-11	CARBON 82K	5% 1/4W
R2547	1-249-426-11	CARBON 5.6K	5% 1/4W
R2556	1-249-411-11	CARBON 330	5% 1/4W
R2561	1-247-843-11	CARBON 3.3K	5% 1/4W
R2564	1-247-863-91	CARBON 22K	5% 1/4W
R2565	1-215-481-00	METAL 330K	1% 1/4W
R2566	1-249-435-11	CARBON 33K	5% 1/4W
R2570	1-247-891-00	CARBON 330K	5% 1/4W
R2580	1-249-411-11	CARBON 330	5% 1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R2582	1-249-417-11	CARBON 1K	5% 1/4W
R2583	1-215-892-11	METAL OXIDE 1K	5% 2W F
R2601	Δ 1-218-265-91	METAL 8.2M	5% 1W
R2602	1-249-417-11	CARBON 1K	5% 1/4W
R2604	1-240-005-11	METAL 0	
R2605	1-249-416-11	CARBON 820	5% 1/4W F
R2606	1-249-416-11	CARBON 820	5% 1/4W F
R2607	1-240-005-11	METAL 0	
R2608	1-249-437-11	CARBON 47K	5% 1/4W
R2610	1-216-486-00	METAL OXIDE 8.2K	5% 3W F
R2611	1-216-486-00	METAL OXIDE 8.2K	5% 3W F
R2612	1-202-719-00	SOLID 1M	10% 1/2W
		<RELAY>	
RY2600	Δ 1-515-684-31	RELAY	
		<SWITCH>	
S2501	1-572-707-11	SWITCH, LEVER	
S2502	1-572-707-11	SWITCH, LEVER	
		<TRANSFORMER>	
T601	Δ 1-429-775-11	TRANSFORMER, CONVERTER	
T801	Δ 1-432-255-11	TRANSFORMER ASSY, FLYBACK (NX-4122/M3J4)	
T805	1-424-584-11	TRANSFORMER, DYNAMIC FOCUS	
T2502	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
T2503	1-424-545-11	TRANSFORMER, FERRITE (PMT)	
T2504	1-431-610-11	TRANSFORMER, HORIZONTAL LINEAR	
T2601	Δ 1-431-182-11	TRANSFORMER, LINE FILTER	
T2602	Δ 1-431-536-11	TRANSFORMER, LINE FILTER	
T2603	Δ 1-431-536-11	TRANSFORMER, LINE FILTER	
		<THERMISTOR>	
THP260	1-809-827-11	THERMISTOR, POSITIVE	
		<TEST PIN>	
TP601	1-695-915-11	TAB (CONTACT)	
TP602	1-695-915-11	TAB (CONTACT)	

	* A-1343-472-A	DF BOARD, COMPLETE	*****
		<CAPACITOR>	
C2801	1-136-559-11	MYLAR 0.0047MF	10% 400V
C2802	1-107-938-11	ELECT 0.47MF	20% 160V
C2803	1-107-636-11	ELECT 10MF	20% 160V
C2804	1-129-702-00	FILM 0.001MF	5% 630V
C2805	1-136-559-11	MYLAR 0.0047MF	10% 400V

F₁H₅H₆

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

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<FUSE>	
F1690	Δ 1-532-350-11	FUSE, TIME-LAG 4A/250V	
		<SWITCH>	
S1690	Δ 1-571-433-31	SWITCH, PUSH (AC POWER)	

	* A-1372-446-A	H5 BOARD, COMPLETE *****	
		<CAPACITOR>	
C913	1-102-114-00	CERAMIC 470PF 10% 50V	
C914	1-102-114-00	CERAMIC 470PF 10% 50V	
C915	1-102-973-00	CERAMIC 100PF 5% 50V	
C916	1-102-973-00	CERAMIC 100PF 5% 50V	
C917	1-136-153-00	FILM 0.01MF 5% 50V	
C918	1-136-153-00	FILM 0.01MF 5% 50V	
		<CONNECTOR>	
CN901	1-569-321-11	SOCKET, CONNECTOR 15P	
CN902	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN903	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN904	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN905	1-569-321-11	SOCKET, CONNECTOR 15P	
CN907	* 1-564-518-11	PLUG, CONNECTOR 3P	
CN908	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN909	* 1-564-506-11	PLUG, CONNECTOR 3P	
		<DIODE>	
D914	8-719-911-19	DIODE 1SS119-25	
D915	8-719-911-19	DIODE 1SS119-25	
D916	8-719-911-19	DIODE 1SS119-25	
D917	8-719-911-19	DIODE 1SS119-25	
		<JACK>	
J901	1-750-264-11	JACK	
J902	1-778-045-11	TERMINAL, S	
J903	1-695-585-11	JACK BLOCK, PIN (L TYPE) 3P	
		<COIL>	
L901	1-408-603-31	INDUCTOR 10UH	
L902	1-408-603-31	INDUCTOR 10UH	
		<RESISTOR>	
R900	1-249-425-11	CARBON 4.7K 5% 1/4W	
R901	1-249-425-11	CARBON 4.7K 5% 1/4W	

REF. NO.	PART NO.	DESCRIPTION	REMARK
R902	1-249-413-11	CARBON 470 5% 1/4W	
R904	1-249-417-11	CARBON 1K 5% 1/4W	
R906	1-249-420-11	CARBON 1.8K 5% 1/4W	
R908	1-247-843-11	CARBON 3.3K 5% 1/4W	
		<SWITCH>	
S901	1-571-532-21	SWITCH, TACTILE	
S902	1-571-532-21	SWITCH, TACTILE	
S903	1-571-532-21	SWITCH, TACTILE	
S904	1-571-532-21	SWITCH, TACTILE	
S905	1-571-532-21	SWITCH, TACTILE	

	* A-1372-447-A	H6 BOARD, COMPLETE *****	
	* 4-055-304-01	HOLDER, LED	
		<CAPACITOR>	
C920	1-126-967-11	ELECT 47MF 20% 16V	
C921	1-102-824-00	CERAMIC 470PF 5% 50V	
C922	1-126-967-11	ELECT 47MF 20% 16V	
		<CONNECTOR>	
CN920	* 1-564-520-11	PLUG, CONNECTOR 5P	
		<DIODE>	
D920	8-719-045-19	DIODE SPB-26MVWF	
D921	8-719-109-90	DIODE RD5.6ESB3	
		<IC>	
IC920	8-742-041-12	HYB IC SBX1981-11(12)	
		<TRANSISTOR>	
Q920	8-729-030-02	TRANSISTOR DTC144ESA	
Q921	8-729-030-02	TRANSISTOR DTC144ESA	
		<RESISTOR>	
R921	1-249-413-11	CARBON 470 5% 1/4W	
R922	1-249-411-11	CARBON 330 5% 1/4W	
R923	1-249-411-11	CARBON 330 5% 1/4W	
R924	1-247-807-31	CARBON 100 5% 1/4W	
R925	1-247-807-31	CARBON 100 5% 1/4W	
R928	1-249-401-11	CARBON 47 5% 1/4W	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1380-572-A	K BOARD, COMPLETE	*****		R3203	1-249-417-11	CARBON 1K	5% 1/4W
				R3204	1-249-429-11	CARBON 10K	5% 1/4W
				R3205	1-249-413-11	CARBON 470	5% 1/4W
4-382-854-11	SCREW (M3X10), P, SW (+)			R3206	1-247-843-11	CARBON 3.3K	5% 1/4W
	<CAPACITOR>			R3207	1-249-441-11	CARBON 100K	5% 1/4W
C3201	1-104-664-11	ELECT 47MF 20% 25V		R3209	1-249-421-11	CARBON 2.2K	5% 1/4W
C3202	1-124-903-11	ELECT 1MF 20% 50V		R3211	1-247-807-31	CARBON 100	5% 1/4W
C3203	1-124-907-11	ELECT 10MF 20% 50V		R3212	1-249-417-11	CARBON 1K	5% 1/4W
C3204	1-126-972-11	ELECT 1000MF 20% 50V		R3213	1-249-417-11	CARBON 1K	5% 1/4W
C3205	1-126-961-11	ELECT 2.2MF 20% 50V		R3214	1-249-421-11	CARBON 2.2K	5% 1/4W
C3206	1-126-961-11	ELECT 2.2MF 20% 50V		R3215	1-249-429-11	CARBON 10K	5% 1/4W
C3207	1-128-551-11	ELECT 22MF 20% 25V		R3216	1-249-400-11	CARBON 39	5% 1/4W
C3208	1-124-902-00	ELECT 0.47MF 20% 50V		R3218	1-249-417-11	CARBON 1K	5% 1/4W
C3209	1-126-961-11	ELECT 2.2MF 20% 50V		R3219	1-249-400-11	CARBON 39	5% 1/4W
C3210	1-104-666-11	ELECT 220MF 20% 16V		R3220	1-249-421-11	CARBON 2.2K	5% 1/4W
C3211	1-104-666-11	ELECT 220MF 20% 16V		R3221	1-249-385-11	CARBON 2.2	5% 1/4W F
C3212	1-130-495-00	MYLAR 0.1MF 5% 50V		R3222	1-249-385-11	CARBON 2.2	5% 1/4W F
C3213	1-130-495-00	MYLAR 0.1MF 5% 50V		R3227	1-247-863-91	CARBON 22K	5% 1/4W
C3214	1-128-550-11	ELECT 2200MF 20% 35V		R3228	1-249-429-11	CARBON 10K	5% 1/4W
C3215	1-128-550-11	ELECT 2200MF 20% 35V		R3229	1-249-429-11	CARBON 10K	5% 1/4W
C3217	1-126-961-11	ELECT 2.2MF 20% 50V		R3230	1-249-417-11	CARBON 1K	5% 1/4W
C3218	1-126-961-11	ELECT 2.2MF 20% 50V		*****			
C3219	1-128-551-11	ELECT 22MF 20% 25V					
C3220	1-126-964-11	ELECT 10MF 20% 50V					
	<CONNECTOR>			* A-1195-126-A	P1 BOARD, COMPLETE	*****	
CN3203*	1-564-507-11	PLUG, CONNECTOR 4P					
CN3204	1-564-506-11	PLUG, CONNECTOR 3P					
CN3205*	1-564-507-11	PLUG, CONNECTOR 4P					
CN3206*	1-564-509-11	PLUG, CONNECTOR 6P					
	<DIODE>						
D3206	8-719-979-85	DIODE EGP20G					
D3209	8-719-911-19	DIODE ISS119-25					
	<IC>						
IC3201	8-759-980-43	IC TDA2009A					
	<IC LINK>						
PS3201	1-532-686-21	LINK, IC 2.7A/150V					
	<TRANSISTOR>						
Q3201	8-729-119-78	TRANSISTOR 2SC2785-HFE					
Q3203	8-729-119-78	TRANSISTOR 2SC2785-HFE					
Q3204	8-729-119-78	TRANSISTOR 2SC2785-HFE					
Q3206	8-729-224-61	TRANSISTOR 2SK246-Y					
	<RESISTOR>						
R3201	1-249-417-11	CARBON 1K 5% 1/4W					
R3202	1-249-417-11	CARBON 1K 5% 1/4W					



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<COIL>					
L2400	1-408-603-31	INDUCTOR 10UH		C2238	1-126-960-11	ELECT 1MF 20%	50V
L2401	1-408-603-31	INDUCTOR 10UH		C2248	1-164-346-11	CERAMIC CHIP 1MF	16V
L2402	1-408-603-31	INDUCTOR 10UH		C2249	1-164-346-11	CERAMIC CHIP 1MF	16V
L2403	1-408-603-31	INDUCTOR 10UH		C2250	1-163-017-00	CERAMIC CHIP 0.0047MF 10%	50V
L2404	1-408-603-31	INDUCTOR 10UH		C2251	1-107-823-11	CERAMIC CHIP 0.47MF 10%	16V
		<TRANSISTOR>		C2252	1-107-823-11	CERAMIC CHIP 0.47MF 10%	16V
Q2417	8-729-119-78	TRANSISTOR 2SC2785-HFE		C2253	1-126-964-11	ELECT 10MF 20%	50V
		<RESISTOR>		C2254	1-126-963-11	ELECT 4.7MF 20%	50V
R2459	1-249-417-11	CARBON 1K 5% 1/4W		C2255	1-126-964-11	ELECT 10MF 20%	50V
R2462	1-249-417-11	CARBON 1K 5% 1/4W		C2256	1-126-933-11	ELECT 100MF 20%	16V
R2463	1-212-946-11	FUSIBLE 3.3 5% 1/2W F		C2257	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
R2471	1-249-417-11	CARBON 1K 5% 1/4W		C2258	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
R2472	1-249-417-11	CARBON 1K 5% 1/4W		C2259	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
R2473	1-247-807-31	CARBON 100 5% 1/4W		C2260	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
R2478	1-247-807-31	CARBON 100 5% 1/4W		C2261	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
R2479	1-247-807-31	CARBON 100 5% 1/4W		C2262	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
		<TUNER>		C2263	1-107-823-11	CERAMIC CHIP 0.47MF 10%	16V
TU2400	8-598-373-01	TUNER, FSS BTF-FG431		C2264	1-163-017-00	CERAMIC CHIP 0.0047MF 10%	50V
		<CONNECTOR>		C2265	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
		*****		C2266	1-163-023-00	CERAMIC CHIP 0.015MF 10%	50V
		* A-1390-800-A S1 BOARD, COMPLETE		C2267	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
		*****		C2268	1-163-005-11	CERAMIC CHIP 470PF 10%	50V
		<CAPACITOR>		C2269	1-163-017-00	CERAMIC CHIP 0.0047MF 10%	50V
C2200	1-163-001-11	CERAMIC CHIP 220PF 10%	50V	C2270	1-163-986-00	CERAMIC CHIP 0.027MF 10%	25V
C2201	1-126-967-11	ELECT 47MF 20%	16V	C2278	1-164-346-11	CERAMIC CHIP 1MF	16V
C2202	1-163-017-00	CERAMIC CHIP 0.0047MF 10%	50V			<CONNECTOR>	
C2203	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	CN2201*	1-770-748-11	CONNECTOR, BOARD TO BOARD 12P	
C2204	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V	CN2203	1-564-513-11	PLUG, CONNECTOR 10P	
C2205	1-126-961-11	ELECT 2.2MF 20%	50V			<DIODE>	
C2206	1-126-959-11	ELECT 0.47MF 20%	50V	D2203	8-719-911-19	DIODE 1SS119-25	
C2207	1-126-963-11	ELECT 4.7MF 20%	50V			<IC>	
C2208	1-164-346-11	CERAMIC CHIP 1MF	16V	IC2201	8-752-058-68	IC CXA1315M	
C2209	1-126-963-11	ELECT 4.7MF 20%	50V	IC2208	8-759-253-06	IC XR1071CP	
C2210	1-126-963-11	ELECT 4.7MF 20%	50V	IC2211	8-759-009-06	IC MC14052BF	
C2211	1-126-964-11	ELECT 10MF 20%	50V	IC2212	8-759-493-92	IC NJM2178M-T2	
C2212	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V			<CHIP CONDUCTOR>	
C2213	1-126-959-11	ELECT 0.47MF 20%	50V	JR2205	1-216-295-91	SHORT 0	
C2214	1-126-963-11	ELECT 4.7MF 20%	50V	JR2206	1-216-295-91	SHORT 0	
C2215	1-164-346-11	CERAMIC CHIP 1MF	16V	JR2207	1-216-295-91	SHORT 0	
C2216	1-126-963-11	ELECT 4.7MF 20%	50V	JR2208	1-216-295-91	SHORT 0	
C2218	1-126-963-11	ELECT 4.7MF 20%	50V			<TRANSISTOR>	
C2221	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V	Q2205	8-729-216-22	TRANSISTOR 2SA1162-G	
C2222	1-126-933-11	ELECT 100MF 20%	16V	Q2206	8-729-230-49	TRANSISTOR 2SC2712-YG	
C2223	1-163-017-00	CERAMIC CHIP 0.0047MF 10%	50V			<RESISTOR>	
C2237	1-163-001-11	CERAMIC CHIP 220PF 10%	50V	R2201	1-216-073-00	RES,CHIP 10K 5%	1/10W
				R2202	1-216-073-00	RES,CHIP 10K 5%	1/10W
				R2203	1-216-073-00	RES,CHIP 10K 5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R2204	1-216-025-91	RES,CHIP	100 5% 1/10W	C969	1-107-949-11	ELECT	2.2MF 20% 160V
R2205	1-216-025-91	RES,CHIP	100 5% 1/10W	C970	1-104-999-11	MYLAR	0.1MF 10% 200V
R2207	1-216-073-00	RES,CHIP	10K 5% 1/10W	C971	1-126-960-11	ELECT	1MF 20% 50V
R2213	1-216-101-00	RES,CHIP	150K 5% 1/10W	C972	1-107-883-11	ELECT	330MF 20% 16V
R2214	1-216-073-00	RES,CHIP	10K 5% 1/10W	C973	1-130-491-00	MYLAR	0.047MF 5% 50V
R2215	1-216-097-91	RES,CHIP	100K 5% 1/10W	C975	1-126-925-11	ELECT	470MF 20% 10V
R2216	1-216-049-91	RES,CHIP	1K 5% 1/10W	C978	1-130-471-00	MYLAR	0.001MF 5% 50V
R2219	1-216-049-91	RES,CHIP	1K 5% 1/10W	C979	1-130-471-00	MYLAR	0.001MF 5% 50V
R2221	1-216-025-91	RES,CHIP	100 5% 1/10W	C980	1-126-933-11	ELECT	100MF 20% 16V
R2222	1-216-025-91	RES,CHIP	100 5% 1/10W			<CONNECTOR>	
R2224	1-216-073-00	RES,CHIP	10K 5% 1/10W	CN961	* 1-564-511-11	PLUG, CONNECTOR 8P	
R2225	1-216-073-00	RES,CHIP	10K 5% 1/10W			<DIODE>	
R2226	1-216-049-91	RES,CHIP	1K 5% 1/10W	D964	8-719-911-19	DIODE ISS119-25	
R2227	1-216-098-00	RES,CHIP	110K 5% 1/10W	D965	8-719-911-19	DIODE ISS119-25	
R2228	1-216-089-91	RES,CHIP	47K 5% 1/10W	D967	8-719-110-88	DIODE RD39ESB2	
R2229	1-216-085-00	RES,CHIP	33K 5% 1/10W	D968	8-719-110-88	DIODE RD39ESB2	
R2230	1-216-063-91	RES,CHIP	3.9K 5% 1/10W			<TRANSISTOR>	
R2231	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	Q961	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R2232	1-216-064-00	RES,CHIP	4.3K 5% 1/10W	Q962	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R2233	1-216-092-00	RES,CHIP	62K 5% 1/10W	Q963	8-729-017-05	TRANSISTOR 2SA1837	
R2234	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	Q965	8-729-017-06	TRANSISTOR 2SC4793	
R2235	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	Q967	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R2236	1-216-049-91	RES,CHIP	1K 5% 1/10W	Q968	8-729-119-76	TRANSISTOR 2SA1175-HFE	
R2237	1-216-069-00	RES,CHIP	6.8K 5% 1/10W			<RESISTOR>	
R2238	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R962	1-249-401-11	CARBON	47 5% 1/4W
R2239	1-216-049-91	RES,CHIP	1K 5% 1/10W	R963	1-249-417-11	CARBON	1K 5% 1/4W
R2240	1-216-073-00	RES,CHIP	10K 5% 1/10W	R964	1-247-735-11	CARBON	47 5% 1/2W F
R2241	1-216-097-91	RES,CHIP	100K 5% 1/10W	R965	1-249-414-11	CARBON	560 5% 1/4W F
R2242	1-216-073-00	RES,CHIP	10K 5% 1/10W	R966	1-249-417-11	CARBON	1K 5% 1/4W
R2243	1-216-097-91	RES,CHIP	100K 5% 1/10W	R967	1-249-411-11	CARBON	330 5% 1/4W
R2244	1-216-073-00	RES,CHIP	10K 5% 1/10W	R968	1-249-417-11	CARBON	1K 5% 1/4W
R2245	1-216-097-91	RES,CHIP	100K 5% 1/10W	R969	1-249-383-11	CARBON	1.5 5% 1/4W F
R2246	1-216-073-00	RES,CHIP	10K 5% 1/10W	R970	1-249-403-11	CARBON	68 5% 1/4W
R2274	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R971	1-247-815-91	CARBON	220 5% 1/4W
R2277	1-216-097-91	RES,CHIP	100K 5% 1/10W	R972	1-249-432-11	CARBON	18K 5% 1/4W
R2285	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R973	1-249-403-11	CARBON	68 5% 1/4W
R2288	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R974	1-216-476-11	METAL OXIDE	180 5% 3W F
R2289	1-216-081-00	RES,CHIP	22K 5% 1/10W	R975	1-249-417-11	CARBON	1K 5% 1/4W F
R2290	1-216-081-00	RES,CHIP	22K 5% 1/10W	R976	1-249-432-11	CARBON	18K 5% 1/4W
R2298	1-216-073-00	RES,CHIP	10K 5% 1/10W	R977	1-249-429-11	CARBON	10K 5% 1/4W
R2299	1-216-049-91	RES,CHIP	1K 5% 1/10W	R978	1-247-807-31	CARBON	100 5% 1/4W
				R979	1-249-414-11	CARBON	560 5% 1/4W
				R980	1-247-807-31	CARBON	100 5% 1/4W
				R981	1-249-416-11	CARBON	820 5% 1/4W
				R982	1-249-383-11	CARBON	1.5 5% 1/4W F
				R983	1-249-438-11	CARBON	56K 5% 1/4W
				R984	1-249-440-11	CARBON	82K 5% 1/4W
				R985	1-249-401-11	CARBON	47 5% 1/4W F
						<CAPACITOR>	
C961	1-161-830-00	CERAMIC	0.0047MF 500V				
C962	1-130-491-00	MYLAR	0.047MF 5% 50V				
C963	1-107-638-11	ELECT	33MF 20% 160V				
C964	1-126-925-11	ELECT	470MF 20% 10V				
C968	1-106-383-00	MYLAR	0.047MF 10% 200V				

* A-1342-408-A VM BOARD, COMPLETE

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

<CAPACITOR>

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

<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
		MISCELLANEOUS *****	
	1-251-447-21	DISTRIBUTOR, RF	
	Δ 1-411-132-11	COIL, DEMAGNETIZATION	
	1-452-032-00	MAGNET,DISC	
	1-452-616-11	NECK ASSY, CRT (NA323)	
	1-475-454-11	SWITCH BLOCK, TOP	
	1-503-902-11	SPEAKER (15X6.5 CM)	
	1-505-489-11	SPEAKER (5CM)	
	* 1-555-110-00	CABLE, P-P	
	Δ 1-777-954-11	CORD, POWER (WITH CONNECTOR)	
	1-782-896-11	CABLE, FLAT	
	8-451-482-31	DEFLECTION YOKE (Y34FXA2-S)	
	Δ 8-733-746-05	PICTURE TUBE (A80JYV51X)	

<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
		ACCESSORIES AND PACKING MATERIALS *****	
	3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)	
	3-862-313-11	MANUAL, INSTRUCTION	
	* 4-063-591-01	INDIVIDUAL CARTON	
	* 4-063-592-01	TRAY	
	* 4-063-593-01	CUSHION(UPPER ASSY)	
	* 4-063-594-01	CUSHION(LOWER ASSY)	
	4-392-003-41	BAND, HOLD	
	4-392-004-31	CLIP	
	4-396-077-01	JOINT	

REMOTE COMMANDER

1-473-978-21 REMOTE COMMANDER (RM-871)