

JVC

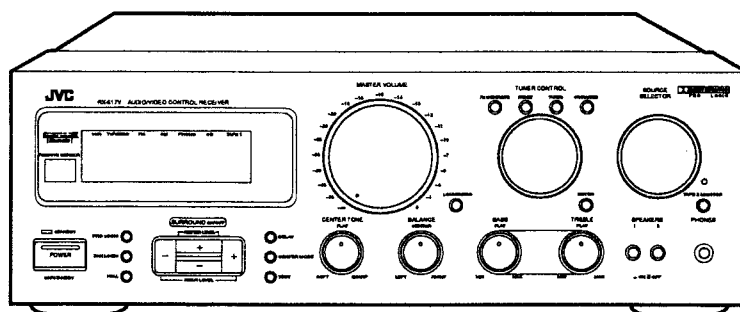
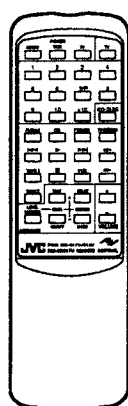
SERVICE MANUAL

AUDIO/VIDEO RECEIVER

RX-516VBK RX-517VTN

Area Suffix

A		Australia
C		Canada
J		the U.S.A.
UT		Taiwan
U		Other Area



COMPU LINK
Remote
Control Component

Contents

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Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)
After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
Do not use a line isolation transformer during this check.

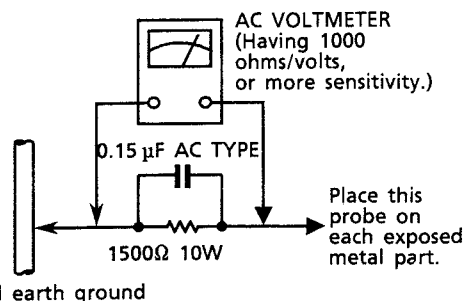
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).

- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor.

Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

Instruction Book

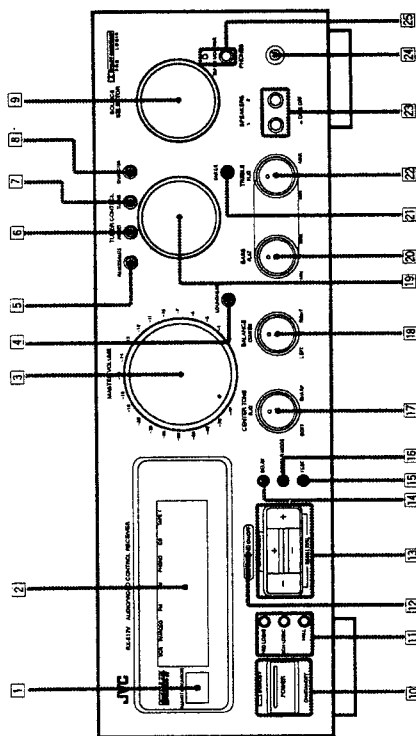
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Introduction

Become familiar with the main switches and controls on your RX-517VTN before use.

Switches, Buttons and Controls



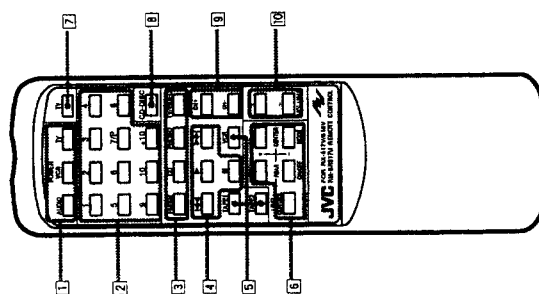
Refer to the pages in parentheses for details.

Front Panel

- 1 Remote sensor
- 2 Display (10)
- 3 MASTER VOLUME control (11)
- 4 LOUDNESS button (12)
- 5 FM MODE/AUTE button (14)
- 6 PRESET button (14)
- 7 TUNING button (13)
- 8 CHARACTER button (15)
- 9 SOURCE SELECTOR (10)
- 10 POWER button and STANDBY indicator (10)
- 11 Surround program buttons (16, 18, 18, 20)
- 12 SURROUND ON/OFF button (16, 18, 20)
- 13 REAR LEVEL/CENTER LEVEL buttons (+/-) (19)
- 14 DELAY button (18)
- 15 TEST button (19)
- 16 CENTER MODE button (18)
- 17 CENTER TONE control (20)
- 18 BALANCE control (11)
- 19 TUNER CONTROL (13, 14, 15)
- 20 BASS control (11)
- 21 ENTER button (13)
- 22 TREBLE control (11)
- 23 SPEAKERS 1/2 buttons (11)
- 24 PHONES jack (12)
- 25 TAPE2 MONITOR button and indicator (10, 21)

Remote Control

- 1 POWER buttons (10, 22)
- 2 10 keys (13, 14, 22)
- 3 Source selecting buttons (FM/AM, CD, PHONO, TV/VIDEO) (10, 22)
- 4 Operating buttons for JVC audio/video components (22)
- 5 Source selecting buttons (TAPE1, TAPE2, VCR) (10, 22)
- 6 Surround adjustment buttons (18, 19)
- 7 TV button (22)
- 8 CD-DISC button (22)
- 9 CH+/- buttons (22)
- 10 VOLUME buttons (+/-) (11)



Getting Started

This section explains how to connect stereo components and speakers to the RX-517VTN, and how to connect the power supply.

Before Installation

General

- Be sure your hands are dry.
- Turn the power off to all components.
- Read the manuals supplied with the components you are going to connect.

Locations

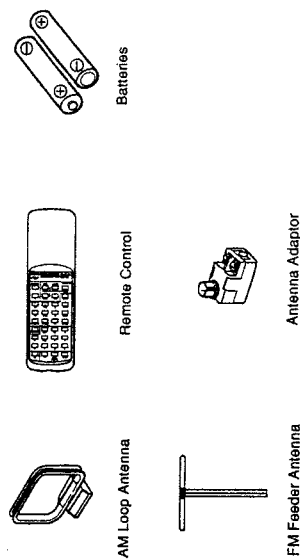
- Install the receiver in a location that is level and protected from moisture.
- The temperature around the receiver must be between 23° and 104° F (-5° and 40° C).
- Make sure there is good ventilation around the receiver. Poor ventilation could cause overheating and damage the receiver.

Handling the receiver

- Do not insert any metal object into the receiver.
- Do not disassemble the receiver or remove screws, covers, or cabinet.
- Do not expose the receiver to rain or moisture.

Checking the Supplied Accessories

Check to be sure you have all of the following items, which are supplied with the RX-517VTN.



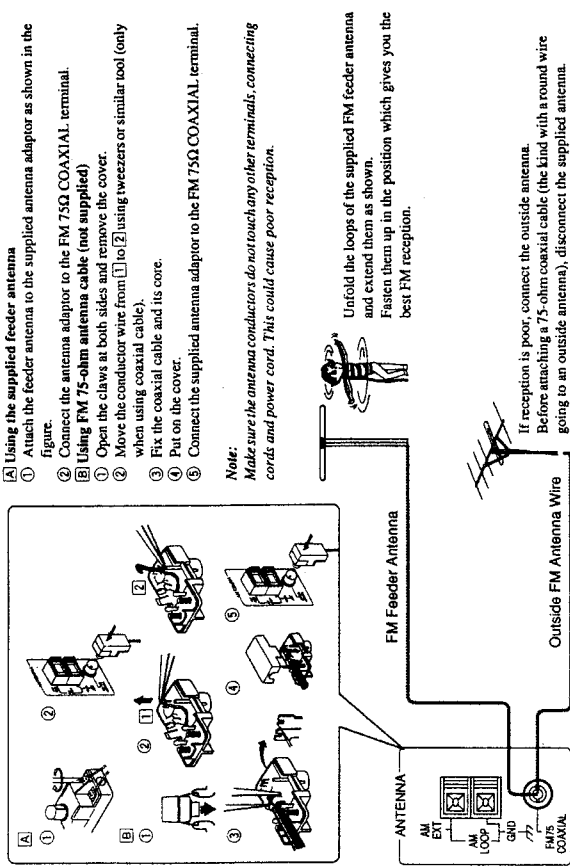
If anything is missing, contact your dealer immediately.

Connecting the FM and AM Antennas

FM Antenna Connections

- A Using the supplied feeder antenna**
- 1 Attach the feeder antenna to the supplied antenna adaptor as shown in the figure.
 - 2 Connect the antenna adaptor to the FM 75Ω COAXIAL terminal.
- B Using FM 75-ohm antenna cable (not supplied)**
- 1 Open the claws at both sides and remove the cover.
 - 2 Move the conductor wire from [] to [] using tweezers or similar tool (only when using coaxial cable).
 - 3 Fix the coaxial cable and its core.
 - 4 Put on the cover.
 - 5 Connect the supplied antenna adaptor to the FM 75Ω COAXIAL terminal.

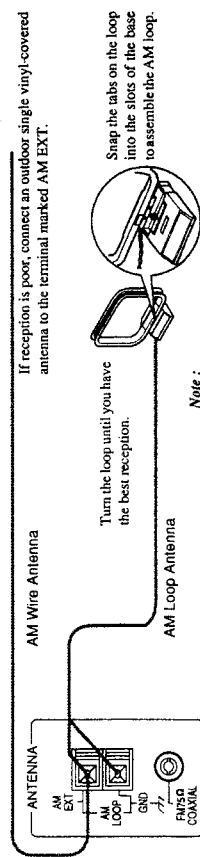
Note:
Make sure the antenna conductors do not touch any other terminals, connecting cords and power cord. This could cause poor reception.



How to strip the 75-ohm coaxial cable

- 1 Strip back the outside covering of the 75-ohm coaxial cable to expose the braided metallic mesh.
- 2 Pull the mesh back over the cable as shown.
- 3 Strip the insulation about 10 mm back from the central wire.
- 4 Attach to the supplied antenna adaptor, as shown in the diagram above.

AM Antenna Connections



Note:
Even when connecting an outside AM antenna, keep the indoor AM loop antenna connected.

Connecting the Speakers

You can connect the following speakers:

- Two sets of front speakers to produce normal stereo sound
- One set of rear speakers to enjoy the surround effect
- One center speaker to produce more effective surround effect

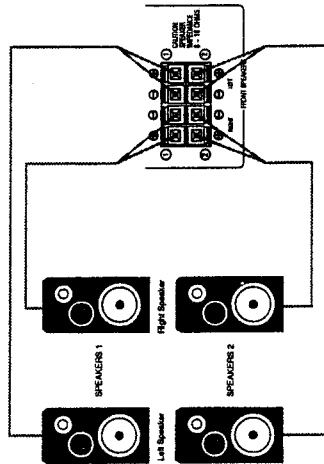
For each speaker, connect one end of the speaker signal cable (not supplied) to the speaker terminal on the rear panel and the other end to the speaker.

1. Open each terminal.
2. Insert the end of the speaker signal cable as shown (be sure to remove the insulation at the end of each wire first).
3. Close the terminals to clamp the speaker signal cables firmly in place.
4. Connect the black (-) and red (+) terminals on the rear panel to the black (-) and red (+) terminals marked on the speakers.

CAUTION:
Use speakers with the same impedance as marked near the terminals on the rear panel.

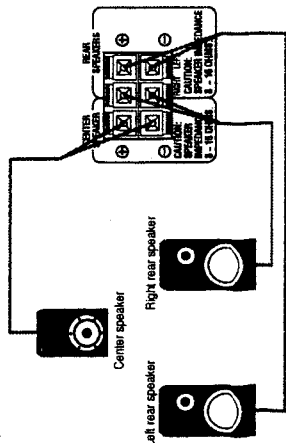
Connecting the Front Speakers

Connect the front speakers to the FRONT SPEAKERS terminals.



Connecting the rear and center speakers

Connect rear speakers to the REAR SPEAKERS terminals and a center speaker to the CENTER SPEAKER terminals.

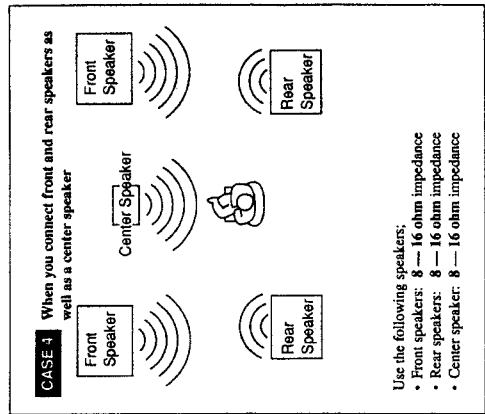
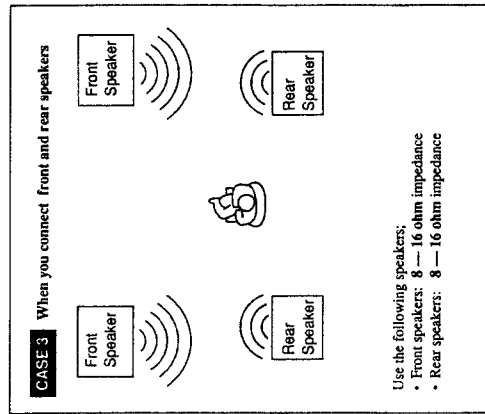
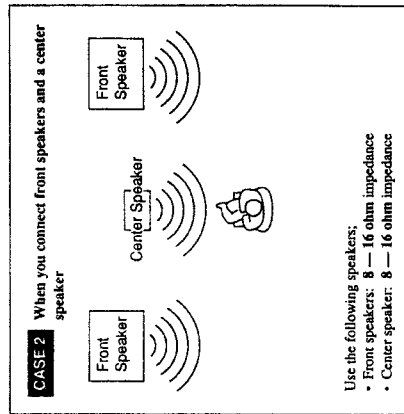
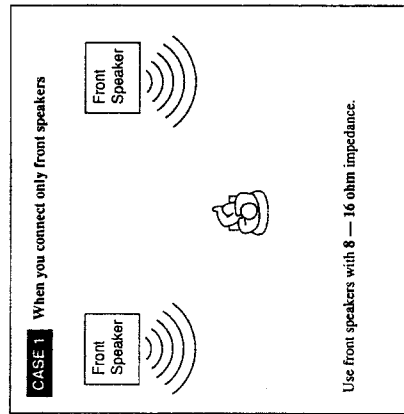


Note:
When you connect rear speakers, make sure that both left and right speakers are connected, otherwise, no sound will come out of the rear speakers.

About the speaker impedance of the speakers

CAUTION:
When connecting speakers, use speakers with the same SPEAKER IMPEDANCE indicated by the speaker terminals.

Note:
The required speaker impedance of the front speakers does not differ depending on whether both the FRONT SPEAKERS ① and FRONT SPEAKERS ② terminals are used or only one of them is used.



Connecting Audio/Video Components

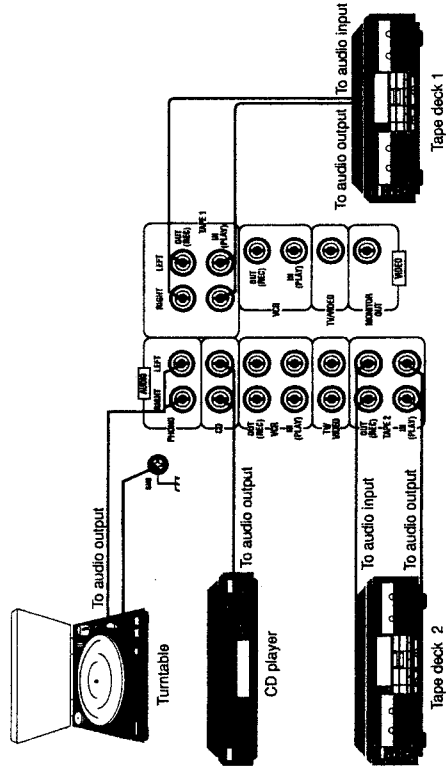
You can connect the following components to the receiver using cables with RCA pin plugs.

Audio Components	Video Components
• Turntable	• VCR
• CD player	• Video disc player
• Tape deck(s)	• TV

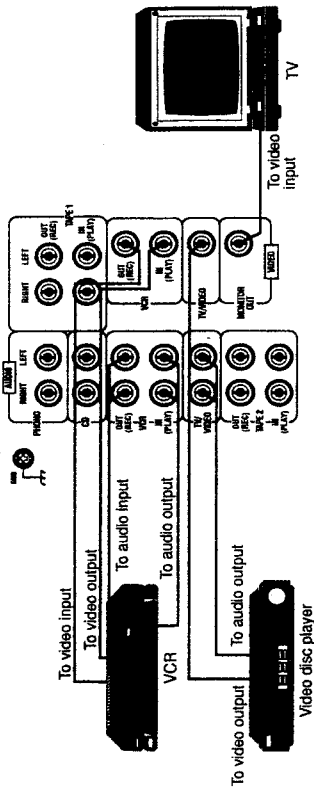
Notes:

- Both plugs and jacks are color-coded; the red ones are for right audio signals, the white ones for left audio signals, and yellow ones for video signals.
- Any turntables incorporating a small-output cartridge such as an MC (moving-coil type) must be connected to this amplifier through a commercial head amplifier or step-up transformer. Direct connection may result in insufficient volume.
- If a ground cable is provided for your turntable, connect the cable to the screw marked GND on the rear panel.

Audio component connections



Video component connections



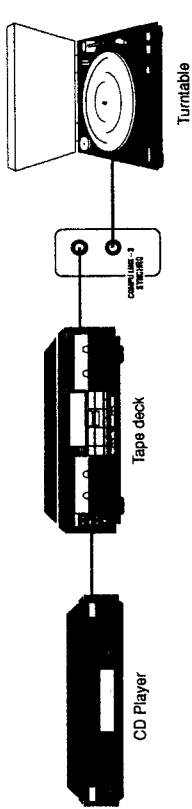
Connecting Audio Components for the COMPU LINK-3 Remote Control System

The COMPU LINK-3 remote control system allows you to control other JVC audio components from the RX-517VTN or vice versa. To use this system, connect your JVC audio components and the RX-517VTN with the cable (monaural mini-plug) supplied with those components.

If your audio component has two COMPU LINK-3 SYNCHRO jacks, you can use either one. If it has only one COMPU LINK-3 SYNCHRO jack, connect it so that it is the last item in the series of components. (For example, the turntable in the diagram below)

Notes:

- The COMPU LINK-3 remote control system is the upgraded version of the COMPU LINK-1 and COMPU LINK-2. Even if your components has the COMPU LINK-1 or COMPU LINK-2 jacks, you can still connect it in the COMPU LINK-3 remote control system, but some functions may not work correctly.
- For more information about the COMPU LINK-3 (-1 and -2) remote control system, see page 23.



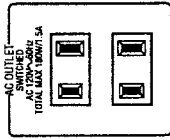
CAUTION:
The COMPU LINK-3 remote control system cannot control the tape deck connected to the TAPE2 jacks. Use only the tape deck connected to the TAPE1 jacks.

Power Supply through the RX-517VTN to Connected Components

You can use the AC outlets on the rear of the RX-517VTN to supply power to audio components. These AC outlets are "switched" outlets. So when the RX-517VTN is off (that is, in standby mode), power is not supplied through these outlets. By turning the RX-517VTN on and off, you can turn the connected components on and off at the same time.

Note:

Do not use the AC outlets on the rear of the RX-517VTN to supply power to the components in the COMPU LINK remote control system; otherwise, the COMPU LINK remote control system may not work correctly.



CAUTION:
Do not plug the components to the AC outlets on the rear if their total power consumption is greater than indicated by the AC outlets.

Connecting the Power Cord

Before plugging the RX-517VTN into an AC outlet, make sure that all connections have been made. When the power cord is connected, the STANDBY indicator above the POWER button lights up.

Keep the power cord away from the connecting cables for the TV, VCR, and antenna. The power cord may cause noise or screen interference. We recommend that you use a coaxial cable to connect the antenna, since it is well-shielded against interference.

Notes:

- A small amount of power is always consumed even in standby mode. To switch off the power completely, unplug the power cord from the AC outlet.
- If the power cord is unplugged or a power failure occurs, preset settings will be erased in a few days.

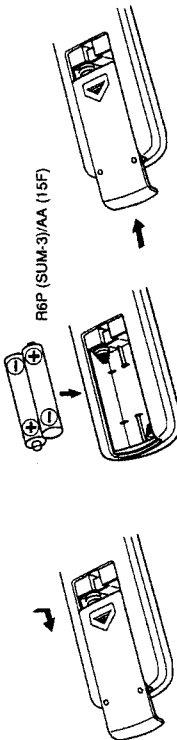
CAUTIONS:

- Do not touch the power cord with wet hands.
- Do not pull on the power cord to unplug the receiver. When unplugging the receiver, always grasp the plug itself so as not to damage the cord.

Putting Batteries in the Remote Control

Before using the remote control, put two supplied batteries first.

1. On the back of the remote control, press down on the battery cover and slide it out.
2. Insert batteries. Make sure to observe the proper polarity: (+) to (+) and (-) to (-).
3. Slide the cover in.



If the range or effectiveness of the remote control decreases, replace the batteries. Use two R6P (SUM-3)/AA (15F) type dry-cell batteries.

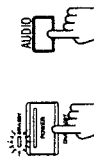
CAUTIONS:

- Follow these precautions to avoid leaking or cracking cells:
 - Place batteries in the remote control so they match the polarity indicated: (+) to (+) and (-) to (-).
 - Use the correct type of batteries. Batteries that look similar may differ in voltage.
 - Always replace both batteries at the same time.
 - Do not expose batteries to heat or flame.

Basic Operations

The following operations are commonly used when you play any sound source.

Turning the Power On and Off



To turn on the power, press the POWER button on the front panel or the AUDIO button on the remote control. The STANDBY indicator goes off.

To turn off the power, press the POWER button or AUDIO button on the remote control again. The STANDBY indicator lights up.

On the front panel

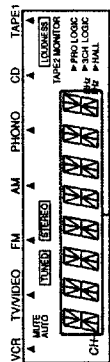
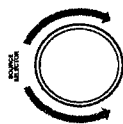
From the remote control

Selecting the Source to Play

You need to select the source to listen to before you start playing any source.

On the front panel:

Turn the SOURCE SELECTOR so that the desired source name appears on the display (at the same time the arrow (▲) on the display points the source).



Selected source name appears

VCR

View the video component connected to the VCR jacks.

TV/VIDEO

View the video component connected to the TV/VIDEO jacks.

FM

Listen to an FM broadcast.

AM

Listen to an AM broadcast.

PHONO

Listen to a record.

CD

Listen to the CD player.

TAPE1

Listen to the tape deck connected to the TAPE1 jacks.

To listen to the tape deck connected to the TAPE2 jacks, press the TAPE2 MONITOR button (or TAPE2 button on the remote control) so that the TAPE2 MONITOR indicators light up on the display and on the front panel.

However, do not press the TAPE2 MONITOR (or TAPE2) button if no component is connected to the TAPE2 jacks; otherwise, no sound comes out of the speakers.

From the remote control:

Press the desired source selecting buttons.

VCR

View the video component connected to the VCR jacks.

TV/VIDEO

View the video component connected to the TV/VIDEO jacks.

FM/AM*

Listen to an FM or AM broadcast.

PHONO*

Each time you press the button, the band alternates between FM and AM.

CD*

Listen to a record.

TAPE1*

Listen to the tape deck connected to the TAPE1 jacks.

TAPE2

Listen to the tape deck connected to the TAPE2 jacks.

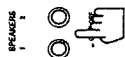
Notes:

- The TAPE2 MONITOR button on the front panel and the TAPE2 button on the remote control have a different function from other source selecting buttons, since this button allows you to monitor the recording. For more details, see "Recording Monitor" on page 21.

- When you press one of the source selecting buttons marked above with an asterisk, the RX-517VTN automatically turns on.

Selecting the Front Speakers

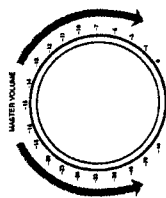
When you have connected two sets of front speakers, you can select which to use. Pressing in the SPEAKERS 1 or SPEAKERS 2 button activates the respective set of speakers.



To use the set of speakers connected to the FRONT SPEAKERS ① terminals, press in the SPEAKERS 1 button (—ON), and press out the SPEAKERS 2 button (■OFF).
To use the set of speakers connected to the FRONT SPEAKERS ② terminals, press in the SPEAKERS 2 button (—ON), and press out the SPEAKERS 1 button (■OFF).
To use both sets of speakers, press in both the SPEAKERS 1 and 2 buttons (—ON).
To use neither set of speakers, press out both the SPEAKERS 1 and 2 buttons (■OFF).

Note:
When only one set of the front speakers is connected to either the FRONT SPEAKERS ① or ② terminals, do not press in both SPEAKERS 1 and 2 buttons (—ON). If you do, no sound comes out of the front speakers.

Adjusting the Volume



On the front panel:

To increase the volume, turn the MASTER VOLUME control clockwise.
To decrease the volume, turn it counterclockwise.

From the remote control:

To increase the volume, press the VOLUME + button.
To decrease the volume, press the VOLUME - button.

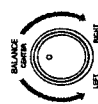


From the remote control

CAUTION:
Always set the MASTER VOLUME control to the minimum before starting any source. If the MASTER VOLUME control is left turned up, the sudden blast of sound energy can permanently damage your hearing and/or ruin your speakers.

Adjusting the Front Speaker Output Balance

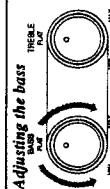
If the sounds you hear from the front right and left speakers are unequal, you can adjust the speaker output balance with the BALANCE control.



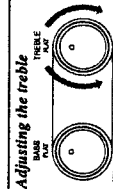
To decrease the left channel sound, turn the BALANCE control clockwise.
To decrease the right channel sound, turn it counterclockwise.

Adjusting the Tone

You can increase or decrease the amount of bass and treble reinforcement.



To increase the bass reinforcement, turn the BASS control clockwise.
To decrease the bass reinforcement, turn it counterclockwise.
When set to the FLAT position, no bass reinforcement is applied.



To increase the treble reinforcement, turn the TREBLE control clockwise.
To decrease the treble reinforcement, turn it counterclockwise.
When set to the FLAT position, no treble reinforcement is applied.

Listening at Low Volume (Loudness)

Human ears are not sensitive to bass at low volume. To compensate for this, the loudness function automatically boosts the bass level as you lower the volume.



To use the loudness function, press the LOUDNESS button.
The LOUDNESS indicator lights up on the display.

To turn the function off, press the LOUDNESS button again.
The LOUDNESS indicator goes off.

Recording a Source

You can record any source playing through the RX-517VTN to the tape decks connected to the TAPE1 and TAPE2 jacks and the VCR connected to the VCR jacks at the same time.
While recording, you can listen to the selected sound source at whatever sound and tone settings you like, without affecting the sound levels of the recording.

Notes:

- When recording from the tape deck connected to the TAPE2 jacks to the one connected to TAPE1, press TAPE2 MONITOR button and select a source other than TAPE1.
- The output volume level, tone adjustments, as well as surround effects cannot affect the recording.
- See also "Recording Monitor" on page 21.

Listening with Headphones

A standard pair of headphones can be connected to the PHONES jack on the front panel. Be sure to turn down the volume before connecting or putting on headphones, as high volume can damage both the headphones and your hearing.

To listen with only headphones

Press out both the SPEAKERS 1 and 2 buttons (■OFF).

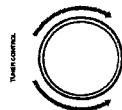
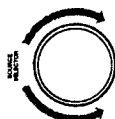
Receiving Radio Broadcasts

You can browse through all the stations or use the preset function to go immediately to a particular station.

Tuning in Stations Manually

1. Select the band.
On the front panel:
Turn the SOURCE SELECTOR.
From the remote control:
Press the FM/AM button so that the last received station of the last received band is tuned in.
Each time you press the button, the band alternates between FM and AM.

Note:
If you do not see a preset channel number on the display, the RX-517VTN is already in the manual tuning mode, and then skip Step 2 below.
2. Press the TUNING button to set the tuning mode to the manual mode.
3. Turn the TUNER CONTROL clockwise or counterclockwise.
Tuning it clockwise increases the frequency.
Tuning it counterclockwise decreases the frequency.



Notes:

- When you turn the TUNER CONTROL, fast, the frequency keeps changing until you turn the TUNER CONTROL again or a station is tuned in.
- When a station of sufficient signal strength is tuned in, the TUNED indicator lights up on the display.
- When an FM stereo program is received, the STEREO indicator also lights up.

Using the Preset Tuning

Once a station is assigned to a channel number, the station can be quickly tuned. You can preset up to 40 stations at random.

Storing the preset stations

1. Tune in the station you want to preset (see above).
2. Press the ENTER button.
"CH-..." appears on the display for 5 seconds.
3. Select a channel number within the 5 seconds.
On the front panel:
Turn the TUNER CONTROL.
From the remote control:
Press the +10 button and the 10 keys.
Examples: For channel number 5, press 5. For channel number 15, press +10 then 5.
For channel number 20, press +10 then 10.

Note:
When you use the remote control, be sure that the +10 button and the 10 keys are activated for tuner, not for the CD. (See page 22.)
4. Press the ENTER button again while the selected channel number is blinking on the display.
The selected channel number stops blinking, and the station is assigned to the selected channel number.

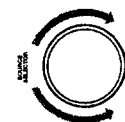


To cancel a stored preset station

Storing a new station on a used number erases the previously stored one.

CAUTION:
Preset stations may be erased when power is cut off to the RX-517VTN, as when it is unplugged from the AC outlet or a power failure occurs. If the preset stations are lost, simply set the stations again using the above procedure.

Tuning in a Preset Station



1. Turn the SOURCE SELECTOR to select either FM or AM.
The last received station of the selected band is tuned in.

Note:

If you see a preset channel number on the display, the RX-517VTN is already in the preset tuning mode, and then skip Step 2 below.



2. Press the PRESET button to set the tuning mode to the preset mode.
3. Turn the TUNER CONTROL to select a preset channel number.
Tuning it clockwise changes preset channels in increasing order.
Tuning it counterclockwise changes preset channels in decreasing order.

On the remote control:

1. Press the FM/AM button.
Press the FM/AM button so that the last received station of the last selected band is tuned in.
Each time you press the button, the band alternates between FM and AM.
2. Press the +10 button and the 10 keys to select a preset channel number.
Examples: For channel number 5, press 5. For channel number 15, press +10 then 5.
For channel number 20, press +10 then 10.

Note:

When you use the remote control, be sure that the +10 button and the 10 keys are activated for tuner, not for the CD. (See page 22.)

Selecting the FM Reception Mode

You can change the FM reception mode so that reception will be improved.



When an FM stereo broadcast is hard to receive or noisy, press the FM MODE/MUTE button on the front panel. The MUTE AUTO indicator goes off on the display. Reception will be improved although you will lose the stereo effect. In this mode, you will hear noise while tuning into the stations.

To restore stereo effect

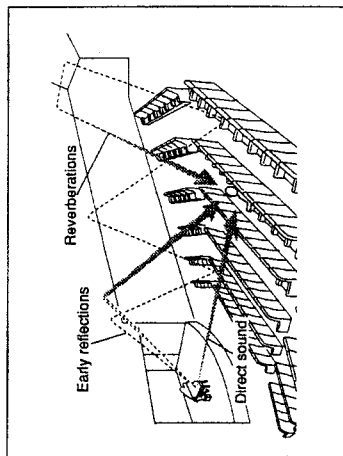
Press the FM MODE/MUTE button again so that the MUTE AUTO indicator lights up on the display. In this mode, when a program is broadcast in stereo, you will hear stereo sound; when in monaural, you will hear monaural sounds. This mode is also useful to suppress static noise between stations.

Using the Surround Processor

The built-in surround processor provides three types of sound programs — Dolby Pro Logic, Dolby 3-Channel Logic, and JVC's Hall Surround.

What is surround?

The sound heard in a concert hall or a movie theater consists of direct sound and indirect sound: early reflections and reverberations. The reflected sound and the reverberations are always delayed by the distances of the ceiling and walls from the listener. The early reflections and reverberations are some of the most important elements of the acoustic surround.



On JVC's Hall Surround

In order to reproduce a more realistic sound field in your listening room while playing an ordinary stereo source, JVC's Hall Surround has been designed to give you clear vocals and to create the feeling of a concert hall. The sound is reproduced through the front speakers and rear speakers.

On Dolby Surround

The Dolby Surround has been also developed to reproduce the important elements of the acoustic surround at home.

To watch the soundtracks of video software bearing the mark **DOLBY SURROUND**, which includes the same encoded surround information as found in Dolby Stereo films, the RX-517VTN can provide you with 2 Dolby Surround programs (Dolby Pro Logic and Dolby 3ch Logic).

Dolby Pro Logic: Select this mode when the optional rear speakers are connected.
Dolby 3ch Logic: Select this mode when no rear speakers are connected.

Notes:

- The surround processor has no effect on monaural sources.
- The surround processor cannot be used for recording.

* Manufactured under license from Dolby Laboratories Licensing Corporation. DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Using JVC's Hall Surround

You need to connect one set of rear speakers to obtain the full effect.

On the front panel:

1. Press **SURROUND ON/OFF** button.
One of the surround program indicators (PRO LOGIC, 3CH LOGIC, or HALL) lights up on the display.



2. Press **HALL**.

From the remote control:

1. Press the **ON/OFF** button on the **SURROUND** section.
One of the surround program indicators lights up.
2. Press the **MODE** button on the **SURROUND** section repeatedly until the **HALL** indicator lights up on the display.

To cancel the Hall Surround, press the **SURROUND ON/OFF** button (or the **ON/OFF** button on the remote control) again.

Note:

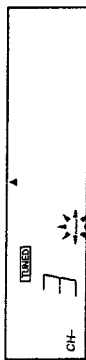
You can also adjust the delay time (see Step 4 on page 18) and the sound level of the rear speakers (see Step 6 on page 19) for Hall Surround. Once you have adjusted the delay time for the Hall Surround, the RX-517VTN memorizes the setting.

Assigning Names to Preset Stations

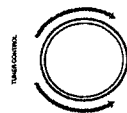
You can assign a name of up to four characters to each preset station (from channel number 1 to 20). When a preset station is tuned in, its assigned name will appear on the display.

On the front panel only:

1. Tune in a preset station (channel number 1 to 20).
See page 14 for details.
2. Press the **CHARACTER** button.
The cursor appears at the first character position.



3. Turn the **TUNER CONTROL** to select a character for the first position.
You can use characters listed below

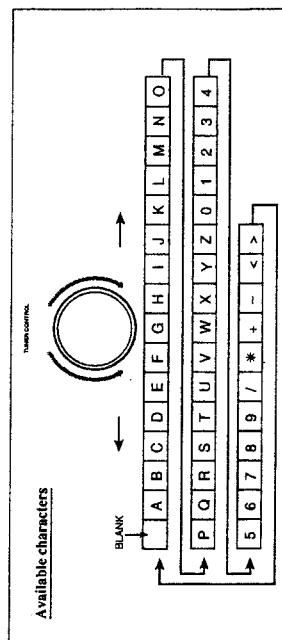


4. When the character you want appears, press the **CHARACTER** button.
The cursor moves to the next character position.



5. Repeat Steps 3 and 4 to enter up to four characters.

6. Press the **ENTER** button after you have assigned a name.



Speaker arrangements for Dolby Surround

The following illustrations show how to obtain the optimum sound environment for various Dolby Surround settings. Try to find the speaker direction and location to create the optimum sound field.

CASE 1 When you have added a center speaker and rear speakers

In this case:
1. Select PRO LOGIC.
2. Select NORMAL or WIDE for center mode.
See page 18 for more details.

CASE 2 When you have added rear speakers

In this case:
1. Select PRO LOGIC.
2. Select PHANTOM for center mode.
See page 18 for more details.

CASE 3 When you have added a center speaker (without rear speakers)

In this case:
1. Select 3CH LOGIC.
2. Select NORMAL or WIDE for center mode.
See page 18 for more details.

Preparing for the Dolby Surround

The RX-517VTN memorizes two sets of Dolby Surround adjustments: one for Pro Logic and the other for 3ch Logic. However, the sound levels of center and rear speakers cannot be stored separately.

- 1. Set the surround mode on.**

On the front panel:
Press the SURROUND ON/OFF button so that one of the surround program indicators lights up on the display.

From the remote control:
Press the ON/OFF button on the SURROUND section so that one of the surround program indicators lights up on the display.
- 2. Select either PRO LOGIC or 3CH LOGIC.**

On the front panel:
Press the PRO LOGIC button or the 3CH LOGIC button.

From the remote control:
Press the MODE button on the SURROUND section.
Each time you press the button, the surround program changes as follows:

PRO LOGIC → 3CH LOGIC → HALL

PRO LOGIC: Select this mode when you use the rear speakers

3CH LOGIC: Select this mode when you use no rear speakers

HALL: This is JVC's original surround program, and is different from the Dolby Surround. To use this, see page 16.
- 3. Press the CENTER MODE button.**
Each time you press the CENTER MODE button, the mode changes as follows.

PHANTOM → NORMAL → WIDE → OFF

PHANTOM: Select this mode when you don't use a center speaker.

NORMAL: Select this mode when the size of the center speaker is smaller than that of the front speakers.

WIDE: Select this mode when the size of the center speaker is the same as that of the front speakers.

OFF: Select this mode to shut off the output of the center channel signal.

Note:
When you have selected 3CH LOGIC in Step 2 above, you cannot select PHANTOM.
- 4. Press the DELAY button to set the delay time of the delayed sound.**
Each time you press the button, the delay time changes among 3 levels.

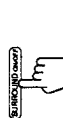
DELAY-1 → DELAY-2 → DELAY-3

DELAY-1: When your distance to the rear speakers is greater than that to the front speakers.

DELAY-2: When your distance to your rear speakers is almost equal to that to the front speakers.

DELAY-3: When your distance to your rear speakers is less than that to the front speakers.

Note:
When you have selected 3CH LOGIC in Step 2 above, you cannot adjust the delay time.

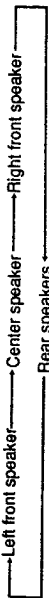


On the front panel



From the remote control

5. Press the **TEST** button to check your setting.
When you press the button, "TEST" starts blinking and a test tone comes out of speakers in the following order:



6. Set the levels of center and rear speakers.

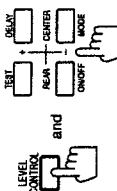


On the front panel:

Press the **CENTER LEVEL** +/- button to set the sound level of the center speaker, and Press the **REAR LEVEL** +/- button to set the sound level of the rear speakers.

From the remote control:

Press the **CENTER +/-** button while pressing the **LEVEL CONTROL** button to set the sound level of the center speaker, and Press the **REAR +/-** button while pressing the **LEVEL CONTROL** button to set the sound level of the rear speakers.



Notes:

- You can adjust the front speaker output balance by using the **BALANCE** control.
- You can adjust these levels in 2 dB steps within the range of ± 20 dB. The sound levels of the left and right rear speakers will be the same.
- You cannot set the sound level of the rear speakers when you have selected **3CH LOGIC**.
- You cannot set the sound level of the center speaker when you select **PHANTOM** or **OFF** for center mode.
- Although the sound levels of center and rear speakers can be stored, they are not stored separately for each surround program.

From the remote control



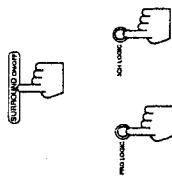
7. Press the **TEST** button again to finish the preparation.
The test tone stops.

Using the Dolby Surround

Once you have set the Dolby Surround adjustments you can use the same adjustments every time you want to enjoy Dolby Surround.

On the front panel:

- Press the **SURROUND ON/OFF** button so that one of the surround program indicators lights up on the display.
- Press either the **PRO LOGIC** or **3CH LOGIC** button if the surround program indicator you want does not light up.
- Play a sound source which was processed with Dolby Surround and is labeled with **DOLBY SURROUND** mark.



From the remote control:

- Press the **ON/OFF** button on the **SURROUND** section so that one of the surround program indicator lights up on the display.
- Press the **MODE** button on the **SURROUND** section repeatedly if the surround program indicator (**PRO LOGIC** or **3CH LOGIC**) you want does not light up. Each time you press the button, the display changes to show the following:



- Play a sound source which was processed with Dolby Surround and is labeled with **DOLBY SURROUND** mark.

To cancel the Dolby Surround, press the **SURROUND ON/OFF** button (or the **ON/OFF** button on the remote control) again.

To make dialogues in movies softer or clearer

By using the **CENTER TONE** control you can adjust the level of mid-frequency range, which the human voice is mostly made up of.



To make dialogues clearer, turn the control toward **SHARP**.

To make them softer, turn the control toward **SOFT**.

When set to the **FLAT** position, no adjustment is applied.

Note:

The **CENTER TONE** control cannot be used when sounds do not come out of the center speaker.

Other Features

The RX-517VTN has some other features like recording monitor function and others. By using these useful features, your audio life will be much improved.

Recording Monitor

If the tape deck connected to the TAPE2 jacks is of the three-head type, you can compare the sound quality of the playing source and of the recording being made on the tape deck.

To use the recording monitor function

Press the TAPE2 MONITOR button on the front panel or the TAPE2 button on the remote control. The TAPE2 MONITOR indicators light up on the display and on the front panel. You can hear the sound just recorded on the tape.

To cancel recording monitor function

Press the TAPE2 MONITOR button or the TAPE 2 button again. The TAPE2 MONITOR indicators go off, and you hear the sound from the source playing.

Notes:

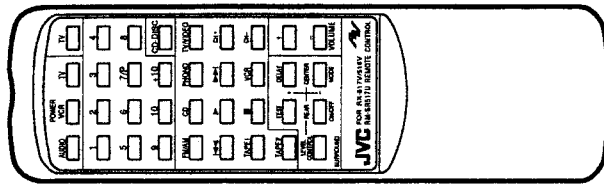
- Refer also to the manual supplied with your tape deck.
- Do not press the TAPE2 MONITOR (or TAPE2) button if no component is connected to the TAPE2 jacks; otherwise, no sound comes out of the speakers



On the front panel



From the remote control



Using the Remote Control

You can operate JVC's audio and video components with this receiver's remote control, since control signals for JVC components are preset in the remote control.

To operate these components with the remote control, first select a source with the source selecting buttons on the remote control. Then, operate that source using the remote control.

Note:

If you choose a source on the front panel directly, the remote control will not operate that source. To operate a source with the remote control, the source must be selected using buttons on the remote control.

After pressing the FM/AM button, you can perform the following operations:

FM/AM Alternates between FM and AM

1 --- 10, +10 Selects a preset channel number directly

To select channel number 5, press 5. For channel number 15, press +10, then 5. For channel number 20, press +10, then 10.

After pressing the CD button, you can perform the following operations on a CD player:

Starts playing

Returns to the beginning of the current track

Skips to the beginning of the next track

Stops playing

1 --- 10, +10 Selects a track number directly

To select track number 5, press 5. For track number 15, press +10, then 5. For track number 20, press +10, then 10.

After pressing the TAPE1 button, you can perform the following operations on a tape deck:

Starts playback

Fast winds a tape from right to left

Fast winds a tape from left to right

Stops operation

After pressing the VCR button, you can perform the following operations on a VCR:

Starts playback

Rewinds a video tape

Fast winds a video tape

Stops operation

CH+/- Changes TV channels on a VCR

Note:

While you are playing the source other than VCR—such as the CD player or tape deck, you cannot operate the VCR using the remote control.

After pressing the TV button (located at the upper rightmost portion of the remote control, not the one in the POWER section), you can perform the following operations on TV:

CH+/- Changes TV channels

Notes:

- When you press the TV button (located at the upper rightmost portion of the remote control, not the one in the POWER section), the TV's input mode changes to TV.
- You can also turn the VCR and TV on and off by pressing the VCR or TV button in the POWER section of the remote control.

After pressing the CD-DISC button, you can perform the following operations on a CD player-changer:

1 --- 6, P Select the number of a disc installed in a CD player-changer. Then continue to

operate the CD player as described above.

Note:

If you have the CD player-changer XL-MC100C and XL-MC100M, 1 --- 6 buttons function as the DISC SKIP button.

- Press 2, 4, or 6 to skip to the next disc.
- Press 1, 3, or 5 to skip back to the previous disc.



The COMPU LINK remote control system allows you to operate JVC audio components through the remote sensor on the RX-517VTN.

To use this remote control system, you need to connect JVC audio components through the COMPU LINK-3 SYNCHRO jacks (see page 8) in addition to the connections using cables with RCA pin plugs (see page 7). This remote control system allows you to use four functions listed below.

■ Remote Control through the Remote Sensor on the RX-517VTN

You can control all components through the remote sensor on the RX-517VTN using this remote control. For details, see page 22.

Note:

Aim the remote control directly at the remote sensor on the RX-517VTN.

■ Automatic Source Selection

When you press the play (▶) button on a connected component or on its own remote control, the RX-517VTN automatically turns on and changes the source to the component. On the other hand, if you select a new source on the RX-517VTN or the remote control, the selected component begins playing immediately.

In both cases, the previously selected source continues playing without sound for a few seconds.

■ Automatic Power On/Off (only possible with the COMPU LINK-3 connection)

Both the CD player and tape deck turns on and off along with the RX-517VTN.

When you turn on the RX-517VTN, the CD player or tape deck will turn on automatically, depending which component has been previously selected.

When you turn off the RX-517VTN, both the CD player and tape deck will turn off.

■ Synchronized Recording

Synchronized recording means the tape deck starts recording as soon as a CD or record begins playing.

To use synchronized recording, follow these steps:

- 1 Put a tape in the tape deck, and a disc in the CD player (or a record on the turntable).
- 2 Press the record (●) button and the pause (||) button on the tape deck at the same time. This puts the tape deck into recording pause.

Note:

If you do not press the record (●) button and pause (||) button at the same time, the synchronized recording feature will not operate.

- 3 Press the play (▶) button on the CD player or on the turntable.

The source changes on the RX-517VTN, and as soon as play starts, the tape deck starts recording. When the play ends, the tape deck enters recording pause, and stops 4 seconds later.

Notes:

- During synchronized recording, the selected source cannot be changed.
- If your CD player is playing in program mode, a 4-second blank is recorded between tracks so that the music scan feature of your tape deck can be used on the recorded tape.
- If the power of any component is shut off during synchronized recording, the COMPU LINK remote control system may not operate properly. In this case, you must start again from the beginning.
- Refer also to the manuals supplied with your CD player and tape deck.

Troubleshooting

Use this chart to help you solve daily operational problems. If there is any problem you cannot solve, contact your JVC service center.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The display does not light up	The power cord not plugged in	Plug the power cord into an AC outlet
No sound from speakers	Speaker wires not connected	Check speaker wiring and reconnect if necessary
	The SPEAKERS buttons are not set correctly	Press the SPEAKERS buttons in or out correctly
	An incorrect source is selected	Select the correct source
	The TAPEZ MONITOR indicator lights up when no component is connected to the TAPEZ jacks	Press the TAPEZ MONITOR button so that the indicator goes off
Sound from one speaker only	Speaker wires are not connected properly	Check speaker wiring and reconnect if necessary
	The BALANCE control is set to one extreme	Adjust the BALANCE control properly
Continuous hiss or buzzing during FM reception	Incoming signal is too weak	Adjust the antenna
	The station is too far away	Select a new station
	An incorrect antenna is used	Check with your dealer to be sure you have a correct antenna
	Antennas are not connected properly	Check connections
Occasional cracking noise during FM reception	Ignition noise from automobiles	Move the antenna farther from automobile traffic
Howling during record playing	Your turntable is too close to speakers	Move speakers away from the turntable
Remote control does not work	There is an obstruction in front of the remote sensor on the RX-517VTN	Remove the obstruction
	Batteries are weak	Replace batteries

Specifications (RX-516VBK)

Amplifier

Output Power	At Stereo operation Australia:	65 watts per channel, min. RMS, both channels driven into 4 ohms at 1 kHz with no more than 0.9% total harmonic distortion (IEC268-3/DIN).
		50 watts per channel, min. RMS, both channels driven into 8 ohms at 1 kHz with no more than 0.9% total harmonic distortion (IEC268-3/DIN).
		50 watts per channel, min. RMS, both channels driven into 8 ohms, 20 Hz to 20 kHz with no more than 0.06% total harmonic distortion.
	Other countries:	60 watts per channel, min. RMS, both channels driven into 8 ohms at 1 kHz with no more than 0.9% total harmonic distortion (IEC268-3/DIN).
		60 watts per channel, min. RMS, both channels driven into 8 ohms, 20 Hz to 20 kHz with no more than 0.06% total harmonic distortion.
	At Surround operation Front Channels	60 watts per channel, min. RMS, driven into 8 ohms at 1 kHz with no more than 0.7% total harmonic distortion.
	Center Channel	60 watts, min. RMS, driven into 8 ohms at 1 kHz, with no more than 0.7% total harmonic distortion.
	Rear Channels	15 watts per channel, min. RMS, driven into 8 ohms at 1 kHz, with no more than 0.7% total harmonic distortion.
Total Harmonic Distortion (8 ohms, 1 kHz)	Australia: Other countries:	0.06 %* at 50 watts output 0.06 %* at 60 watts output (* Measured by JVC Audio Analysis System)
Frequency Response (8 ohms)	PHONO CD, TAPE1, TAPE2, VCR, TV/VIDEO	20 Hz to 20 kHz (± 0.5 dB) 10 Hz to 30 kHz (± 1 dB)
Signal-to-Noise Ratio (66 HF/DIN)	PHONO CD, TAPE1, TAPE2, VCR, TV/VIDEO	71 dB/66 dB 91 dB/67 dB
RIAA Phono Equalization		± 0.5 dB (20 Hz to 20 kHz)
Audio Input Sensitivity/ Impedance (1 kHz)	PHONO CD, TAPE1, TAPE2, VCR, TV/VIDEO	2.5 mV/47 k ohms 200 mV/47 k ohms
Audio Output Level	TAPE1, TAPE2, VCR	200 mV
Tone Control Range	BASS TREBLE	+8 ± 2 dB, -8 ± 2 dB (at 100 Hz) +8 ± 2 dB, -8 ± 2 dB (at 10 kHz)
Video Input Sensitivity/ Impedance	VCR, TV/VIDEO	1 Vp-p/75 ohms
Video Output Level	VCR, MONITOR OUT	1 Vp-p (at 1 Vp-p input)
Synchronization		negative
Signal-to-Noise Ratio		45 dB

FM tuner (IHF)

Tuning Range	87.5 MHz to 108.0 MHz
Usable Sensitivity	10.8 dBf (0.95 μ V/75 ohms)
50 dB Quieting Sensitivity	16.3 dBf (1.8 μ V/75 ohms)
	38.3 dBf (22.5 μ V/75 ohms)
Signal-to-Noise Ratio (IHF-A weighted)	80 dB at 85 dBf 73 dB at 85 dBf
Total Harmonic Distortion	0.15 % at 1 kHz 0.2 % at 1 kHz
Stereo Separation at REC OUT	40 dB at 1 kHz
Capture Ratio	1.5 dB
Alternate Channel Selectivity	60 dB (± 400 kHz)
Frequency Response	30 Hz to 15 kHz: (± 0.5 dB, ~ 3 dB)

AM tuner

Tuning Range	Australia: Other countries:	522 kHz to 1,629 kHz 531 kHz to 1,602 kHz (at 9 kHz interval) 530 kHz to 1,600 kHz (at 10 kHz interval)
Usable Sensitivity	Loop antenna External antenna	300 μ V/m 30 μ V
Signal-to-Noise Ratio		50 dB (100mV/m)

General

Power Requirements	Australia: Other countries:	AC 240V $\sim$, 50 Hz AC 110V/120V/240 V $\sim$, adjustable with the voltage selector, 50/60 Hz
Power Consumption		280 watts 5 watts (in standby mode)
Dimensions (W x H x D)		435 x 156 x 405 mm (17 $\frac{3}{4}$ x 6 $\frac{1}{8}$ x 16 inches)
Mass		10.6 kg (23.4 lbs)
Designs & specifications subject to change without notice		

Specifications (RX-517VTN)

Amplifier

Output Power	At Stereo operation	80 watts per channel, min. RMS, both channels driven into 8 ohms, 20 Hz to 20 kHz with no more than 0.4% total harmonic distortion.
At Surround operation	Front Channels	75 watts per channel, min. RMS, driven into 8 ohms at 1 kHz with no more than 0.7% total harmonic distortion.
Center Channel		75 watts, min. RMS, driven into 8 ohms at 1 kHz, with no more than 0.7% total harmonic distortion.
Rear Channels		20 watts per channel, min. RMS, driven into 8 ohms at 1 kHz, with no more than 0.7% total harmonic distortion.
Total Harmonic Distortion (8 ohms, 1 kHz)		0.06 %* at 70 watts output (* Measured by JVC Audio Analysis System)
Frequency Response (8 ohms)	PHONO CD, TAPE1, TAPE2, VCR, TV/VIDEO	20 Hz to 20 kHz (± 0.5 dB) 10 Hz to 30 kHz (± 1 dB)
Signal-to-Noise Ratio ('66 IIF/78 IIF)	PHONO CD, TAPE1, TAPE2, VCR, TV/VIDEO	70 dB/78 dB (at REC OUT) 91 dB/80 dB
RIAA Phono Equalization		± 0.5 dB (20 Hz to 20 kHz)
Audio Input Sensitivity/Impedance (1 kHz)	PHONO CD, TAPE1, TAPE2, VCR, TV/VIDEO	2.5 mV/47 k ohms 210 mV/47 k ohms
Audio Output Level	TAPE1, TAPE2, VCR	200 mV
Tone Control Range	BASS TREBLE	+8 ± 2 dB, -8 ± 2 dB (at 100 Hz) +8 ± 2 dB, -8 ± 2 dB (at 10 kHz)
Video Input Sensitivity/Impedance	VCR, TV/VIDEO	1 Vp-p/75 ohms
Video Output Level	VCR, MONITOR OUT	1 Vp-p (at 1 Vp-p input)
Synchronization		negative
Signal-to-Noise Ratio		45 dB

FM tuner (IIF)

Tuning Range	87.5 MHz to 108.0 MHz
Usable Sensitivity	10.8 dBf (0.95 μ V/75 ohms)
50 dB Quieting Sensitivity	16.3 dBf (1.8 μ V/75 ohms) 38.3 dBf (22.5 μ V/75 ohms)
Signal-to-Noise Ratio (IIF-A weighted)	80 dB at 85 dBf 73 dB at 85 dBf
Total Harmonic Distortion	0.15 % at 1 kHz 0.2 % at 1 kHz
Stereo Separation at REC OUT	40 dB at 1 kHz
Capture Ratio	1.5 dB
Alternate Channel Selectivity	60 dB: (± 400 kHz)
Frequency Response	30 Hz to 15 kHz: (+0.5 dB, -3 dB)

AM tuner

Tuning Range	530 kHz to 1,710 kHz
Usable Sensitivity	300 μ V/m 30 μ V
Signal-to-Noise Ratio	50 dB (100mV/m)
Power Requirements	AC 120V ¹ , 60 Hz
Power Consumption	250 watts/330 V A 5 watts (in standby mode)
Dimensions (W x H x D)	435 x 156 x 405 mm (17 1/8 x 6 1/4 x 16 inches)
Mass	10.6 kg (23.4 lbs)

General

Designs & specifications subject to change without notice

Description of ICs

■ MN171602JYN (IC401) : System controller

1. Terminal Layout

VDD	1	64	OSC2
KI0	2	63	OSC1
KI1	3	62	VSS
KI2	4	61	X2(OPEN)
KI3	5	60	X1(GND)
KO0/D1	6	59	T.MUTE
KO1/D2	7	58	AC POWER
KO2/D3	8	57	IN2T
KO3/D4	9	56	IN1T
KO4/D5	10	55	IN2S
KO5/D6	11	54	IN1S
D7	12	53	DCS OUT
D8	13	52	DCS IN
D9	14	51	DO
VOL	15	50	DI
DOWN	16	49	CK
VOL UP	17	48	CE
VOL IND	18	47	TUNED
VPP	19	46	STEREO
S1	20	45	RDS D.START
S2	21	44	RM IN
S3	22	43	RESET
S4	23	42	RDS RESET
S5	24	41	RDS DATA
S6	25	40	RDS CLK
S7	26	39	INH
S8	27	38	DATA
S9	28	37	STB1
S10	29	36	CLK
S11	30	35	STB2
S12	31	34	S16
S13	32	33	S15
S14			

2. Key Matrix

	KEY IN 0 (PIN2)	KEY IN 1 (PIN3)	KEY IN 2 (PIN4)	KEY IN 3 (PIN5)
KEY OUT 0 (PIN6)	POWER (S406)	PRO LOGIC (S407)	3CH LOGIC (S408)	HALL (S412)
KEY OUT 1 (PIN7)	CENTER + (S402)	REAR + (S403)	SURROUND (S404)	DELAY (S405)
KEY OUT 2 (PIN8)	CENTER - (S401)	REAR - (S424)	CENTER MODE (S425)	TEST (S426)
KEY OUT 3 (PIN9)	LOUDNESS (S414)	CHARACTER (S415)	TUNING (S416)	PRESET (S417)
KEY OUT 4 (PIN10)	FM MODE (S418)	ENTER (S419)	TAPE 2 (S420)	--
KEY OUT 5 (PIN11)	--	--	--	--

3. Terminal Description

Pin No.	Symbol	I/O	Function and Operations	Pin No.	Symbol	I/O	Function and Operations
1	VDD	--	Power supply	33	S15	O	Segment control signal
2	KI0	I	Key matrix in	34	S16	O	Segment control signal
3	KI1	I	Key matrix in	35	STB2	O	Strobe signal for IC605
4	KI2	I	Key matrix in	36	CLK	O	Clock output for IC321, 341 and IC605
5	KI3	I	Key matrix in	37	STB1	O	Strobe signal for IC321 and IC341
6	D1/KO0	O	Grid control signal (Key matrix out)	38	DATA	O	Data for IC321, 341 and 605
7	D2/KO1	O	Grid control signal (Key matrix out)	39	INH	I	Inhibit signal input
8	D3/KO2	O	Grid control signal (Key matrix out)	40	CK	O	Clock output (To IC102)
9	D4/KO3	O	Grid control signal (Key matrix out)	41	DI	I	Data from PLL synthesizer (From IC102)
10	D5/KO4	O	Grid control signal (Key matrix out)	42	DO	O	PLL synthesizer control data (To IC102)
11	D6/KO5	O	Grid control signal (Key matrix out)	43	RESET	I	Reset signal input
12	D7	O	Grid control signal	44	RM IN	I	Detection for protector
13	D8	O	Grid control signal	45	--	--	Non connection
14	D9	O	Grid control signal	46	STEREO	O	STEREO indication control
15	VOL LED	O	Volume indication control	47	TUNED	O	TUNED indication control
16	VOL UP	O	Volume control signal	48	CE	O	Chip select signal for IC102
17	VOL DOWN	O	Volume control signal	49	TAPE2 LED	O	TAPE2 Monitor LED
18	VPP	--	Power supply for FL display	50	--	--	Non connection
19	S1	O	Segment control signal	51	--	--	Non connection
20	S2	O	Segment control signal	52	DCS IN	I	Compulink signal input
21	S3	O	Segment control signal	53	DCS OUT	O	Compulink signal output
22	S4	O	Segment control signal	54	IN1S	I	R. Encoder control signal input (SOURCE)
23	S5	O	Segment control signal	55	IN2S	I	R. Encoder control signal input (SOURCE)
24	S6	O	Segment control signal	56	IN1T	I	R. Encoder control signal input (TUNER CONTROL)
25	S7	O	Segment control signal	57	IN2T	I	R. Encoder control signal input (TUNER CONTROL)
26	S8	O	Segment control signal	58	AC POWER	O	RY001 control signal
27	S9	O	Segment control signal	59	T.MUTE	O	Tuner muting control signal
28	S10	O	Segment control signal	60	--	--	Connected to GND
29	S11	O	Segment control signal	61	--	--	Non connection
30	S12	O	Segment control signal	62	VSS	--	GND
31	S13	O	Segment control signal	63	OSC1	--	Oscillation terminal
32	S14	O	Segment control signal	64	OSC2	--	Oscillation terminal

■ M50198P(IC602) : Digital Delay IC

1. Explanation of the operation

Audio signal is input to LPF1 to reduce the high frequency components. The output from LPF1 is coded to 1 bit signal by ADM modulator and comparator with inside.

This digital signal is input to main control logic.

And this signal obtain various effect, and is written in SRAM.

At the same time main control logic read the data from SRAM, and input it to ADM demodulator.

The ADM demodulator converts 1bit signal to analog signal.

The analog signal is input to LPF2 to reduce the suprius components, and output to Pin 13.

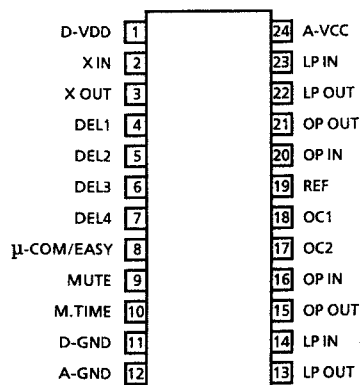
LPF1 Reject the high frequency components which is contained the input signal and unnecessary.

LPF2 Reject the suprius components which is generated by the ADM demodulation by using with comparator.

OP1, CC1 For ADM modulator.

OP2, CC2 For ADM demodulator.

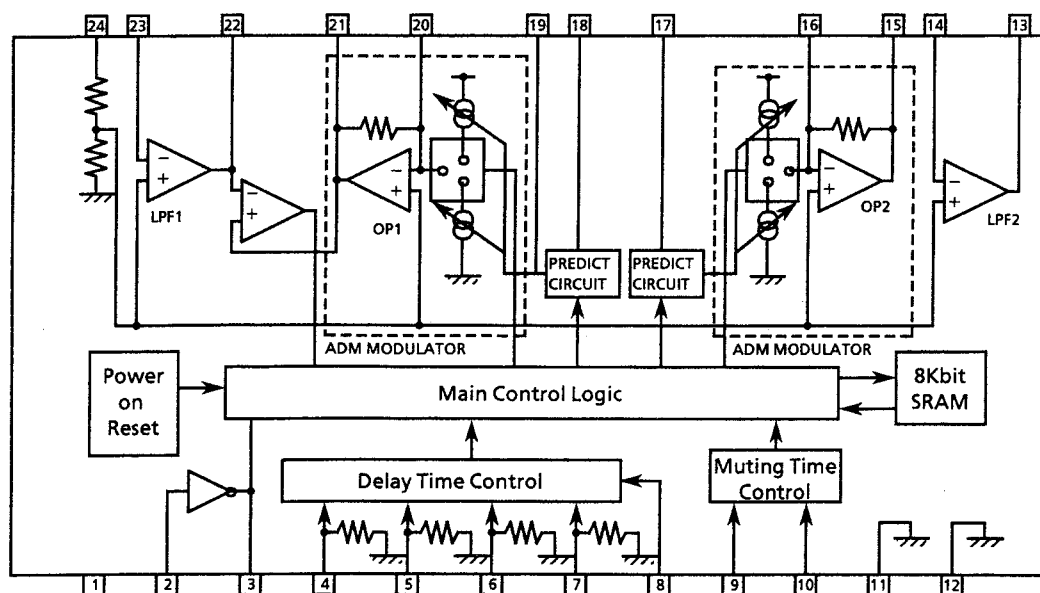
2. Terminal Layout



3. Pin function

Pin No	Symbol	Function	Pin No	Symbol	Function
1	D-VDD	Power Supply	13	LP OUT	Output of LPF
2	X IN	Oscillation Terminal	14	LP IN	Input of LPF
3	X OUT	Oscillation Terminal	15	OP OUT	Integrator output
4	DEL1	Delay time control	16	OP IN	Integrator input
5	DEL2	Delay time control	17	OC2	Current control
6	DEL3	Delay time control	18	OC1	Current control
7	DEL4	Delay time control	19	REF	1/2 Vcc
8	μCOM/EASY	Connected to GND	20	OP IN	Integrator input
9	MUTE	Connected to GND	21	OP OUT	Integrator output
10	M.TIME	Connected to GND	22	LP OUT	Output of LPF
11	D-GND	Analog GND	23	LP IN	Input of LPF
12	A-GND	Digital GND	24	A-VCC	Power supply

4. Block Diagram

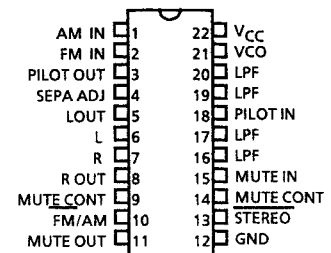


■ LA3401 (IC105) : FM MPX Decoder

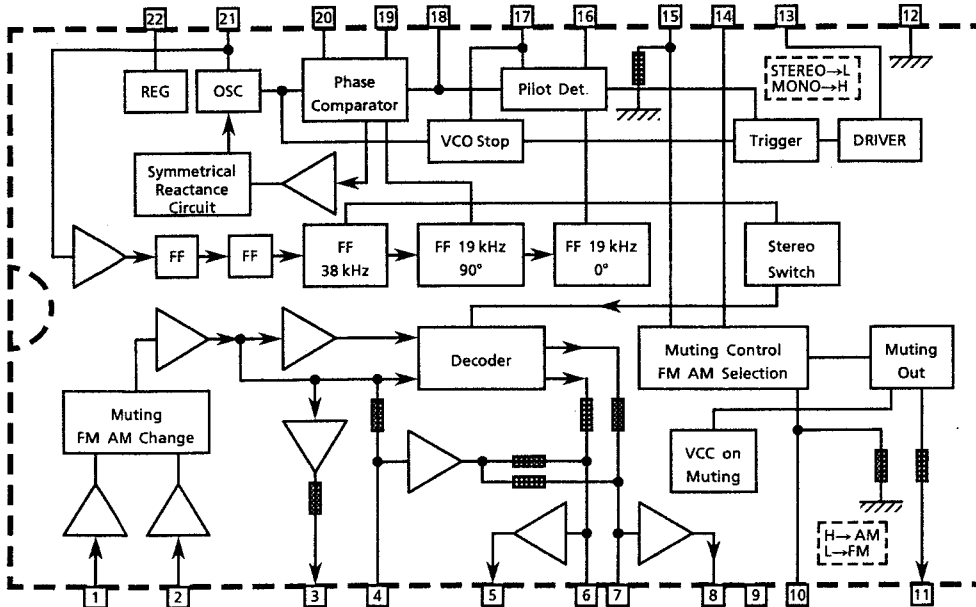
1. The main function descriptions

- (1) Decod the FM Multiplex Signal (Stereo signal).
- (2) When receiving FM Stereo Signal, it outputs the signal for indicator.
- (3) AM / FM Audio Amplifier.

2. Terminal Layout



3. Block Diagram



4. Pin Functions

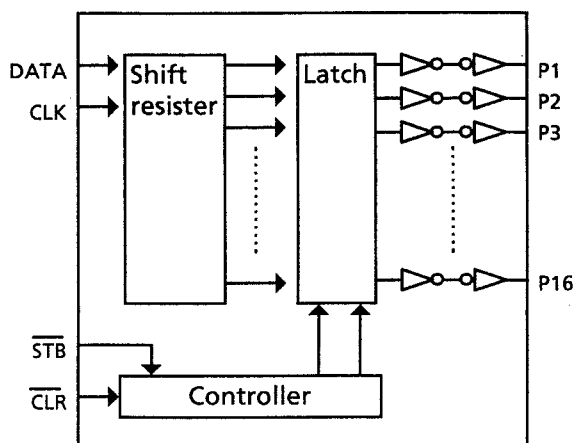
Pin No.	Symbol	I/O	Function
1	AM IN	I	This is an input terminal for AM detection signal.
2	FM IN	I	This is an input terminal for FM detection signal.
3	PILOT OUT	O	Output of MPX pilot signal (Connect to Pin18).
4	SEPA. ADJ.	--	Separation adjustment.
5	L. OUT	O	Left channel signal output.
6	L	O	Input terminal of the Left channel Post AMP.
7	R	O	Input terminal of the right channel Post AMP.
8	R OUT	O	Right channel signal output
9	MUTE CONT	--	The mute time is controlled by the connected capacitor when turning the power switch on.
10	FM / AM	I	Change over the FM / AM input. "H" : AM, "L" : FM
11	MUTE OUT	--	Not use
12	GND	--	Ground terminal.
13	STEREO	O	Stereo indicator output. Stereo : "L", Mono : "H"
14	MUTE CONT	--	The mute time is controlled by the connected capacitor when changing over the FM / AM .
15	MUTE IN	I	Mute signal input. "H" : Mute on, "L" : Mute off.
16	LPF	--	Low pass filter of pilot detector.
17	LPF	--	While this terminal goes to "H", the VCO stop.
18	PILOT IN	I	PLL input.
19	LPF	--	Low-pass filter of PLL.
20	LPF	--	Low-pass filter of PLL.
21	VCO	I	Voltage controlled oscillator terminal.
22	VCC	--	Power supply.

■ NJU3715L (IC605) : 16-BIT Serial-parallel converter

1. Terminal layout

VIDEO2	1	22	VDD
SOURCE MUTE	2	21	VIDEO1
3CH LOGIC	3	20	HALL
NOISE ON/OFF	4	19	S. ON/OFF
NOISE 1	5	18	WIDE
VSS	6	17	NORMAL
NOISE2	7	16	C. ON/OFF
DELAY1	8	15	CLR
DELAY2	9	14	STB
DELAY3	10	13	CLK
NC	11	12	DATA

2. Internal Block Diagram



P1	C. ON/OFF
P2	NORMAL
P3	WIDE
P4	SURR. ON/OFF
P5	HALL
P6	VIDEO1
P7	VIDEO2
P8	SOURCE MUTE
P9	3CH. LOGIC
P10	NOISE ON/OFF
P11	NOISE1
P12	NOISE2
P13	DELAY1
P14	DELAY2
P15	DELAY3
P16	—

3. Terminal Description

Pin No.	Function
1~5, 7~11, 16~21	Parallel data output
12	Serial data input
13	Clock input (When this terminal is set low level, all of the output become low.)
14	Strobe signal input
15	Clear signal input

4. Function

CLK	STB	CLR	Function
X	X	L	All the data stored in the latch circuit are eliminated. (The data in the shift register are not eliminated.)
	H	H	Data are inputted synchronizing the rising edge of the clock.
L	L	H	The data in the shift register are transmitted to the latch circuit. The data outputted from parallel outputs.
	L	H	The data in the shift register are shifted synchronizing the rising edge of the clock. (The data outputted from the latch circuit are changed.)

5. Function Table

SURROUND MODE

MODE	Port of IC605					
	SURROUND ON/OFF	3ch LOGIC	HALL OUT	PRO LOGIC LED	3ch LOGIC LED	HALL LED
PRO LOGIC	H	L	L	L	H	H
3CH LOGIC	H	H	L	H	L	H
HALL	H	L	H	H	H	L
OFF	L	L	L	H	H	H

VOLUME CONTROL

MODE	Port of IC605		
	VOLUME UP	VOLUME DOWN	VOLUME LED
UP	H	L	L
DOWN	L	H	L
STOP	L	L	L
MUTE	L	H	BLINKLING

VIDEO CONTROL

MODE	Port of IC605	
	VIDEO 1	VIDEO 2
VCR	H	H
VIDEO	L	H
EXCEPT VCR, VIDEO	L	L
STAND BY	L	L

CENTER MODE

MODE	Port of IC605		
	CENTER ON/OFF	NORMAL	WIDE
PHANTOM	H	H	H
NORMAL	H	L	H
WIDE	H	H	L
OFF	L	L	L

TEST TONE

MODE (NOISE OUT)	Port of IC605	
	NOISE 1	NOISE 2
L-ch	L	L
C-ch	L	H
R-ch	H	L
S-ch	H	H

DELAY TIME

MODE	Port of IC605		
	DELAY 1	DELAY 2	DELAY 3
DELAY-1	H	L	L
DELAY-2	L	H	L
DELAY-3	L	L	H

DOLBY TEST

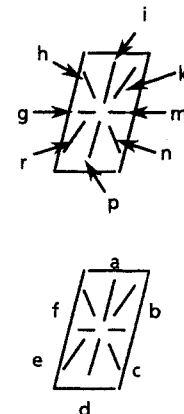
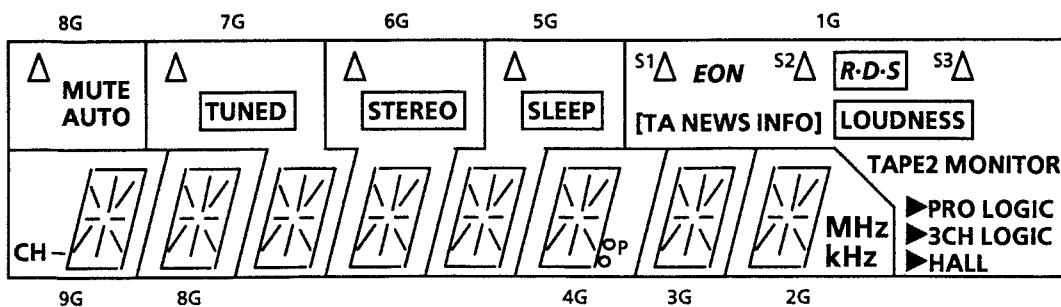
MODE	Port of IC605
	NOISE ON//OFF
ON	L
OFF	H

LOUDNESS

MODE	Port of IC605
	LOUDNESS
ON	L
OFF	H

Internal Connections of the FL Display

(1) Grid Layout



(2) Pin Connections

[9G ~ 2G]

TERMINAL NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ELECTRODE	F1	F1	NP	NP	1G	2G	3G	4G	5G	6G	7G	8G	9G	NC	NC	NC	NC	NC	NC	P 1
TERMINAL NO.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
ELECTRODE	P 2	P 3	P 4	P 5	P 6	P 7	P 8	P 9	P 10	P 11	P 12	P 13	P 14	P 15	P 16	NP	NP	F2	F2	

Notes F:Filament G:Grid P:Anode NP:No Pin NP:No connection

(3) Anode Connections

	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	a	a	a	a	a	a	a	a	S1
P2	b	b	b	b	b	b	b	b	S2
P3	j	j	j	j	j	j	j	j	S3
P4	k	k	k	k	k	k	k	k	--
P5	h	h	h	h	h	h	h	h	TAPE2 MONITOR
P6	f	f	f	f	f	f	f	f	LOUDNESS
P7	m	m	m	m	m	m	m	m	--
P8	g	g	g	g	g	g	g	g	--
P9	c	c	c	c	c	c	c	c	►PRO LOGIC
P10	n	n	n	n	n	n	n	n	►3CH LOGIC
P11	r	r	r	r	r	r	r	r	►HALL
P12	p	p	p	p	p	p	p	p	R-D-S
P13	e	e	e	e	e	e	e	e	TA
P14	d	d	d	d	d	d	d	d	NEWS
P15	CH-	MUTE AUTO	TUNED	STEREO	SLEEP	Op	--	MHz	INFO
P16	--	Δ	Δ	Δ	Δ	--	--	kHz	EON []

DISASSEMBLY PROCEDURES

■ Removing The Top Cover

1. Remove the 4 screws fastening both sides of top cover, and the 2 screws fastening the rear side.
2. Remove the top cover.

■ Removing The Bottom Cover

1. Remove the 12 screws (A)(L).
2. Remove the screw (J).
3. Remove the bottom cover.

※ The screw (J) which secures the bottom cover is also used for ground. It is necessary to ground before checking after the bottom cover is removed. (See Fig.-3.)

■ Removing The Front Panel Assembly

1. Remove the 3 screws (C) fastening top of the front panel, and the 4 screws (B) fastening bottom of the bottom cover.
2. Remove the master volume knob (D), and (E) knobs.
3. Remove the nut fastening the master volume.
4. Remove the front panel disconnecting some wires.

■ Removing The Front P.C. Board

1. Removing the front panel Assembly.
2. Remove the (F) knobs.
3. Remove the 9 screws (G).
4. Remove the front P.C. Board.

■ Removing The rear panel

1. Remove all screws (H),(K),(L) installed at rear panel.
2. Take it out.

※ 6pcs. of the screw (K) which secure the rear panel are also used for ground. Installing of those screws is required before checking.

■ Removing The Power Transistor

1. Remove the top cover and bottom cover.
2. Unsolder the broken transistor.
3. Remove the some screws fastening it.
4. Remove it.

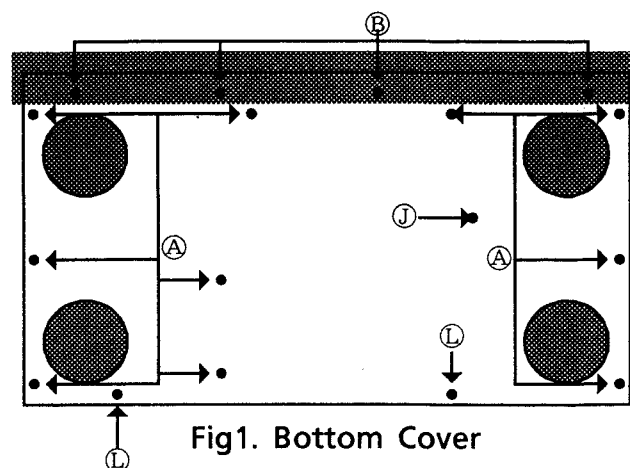


Fig1. Bottom Cover

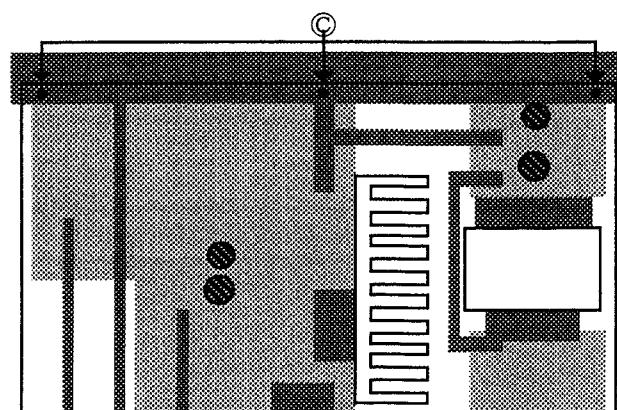


Fig2. top view

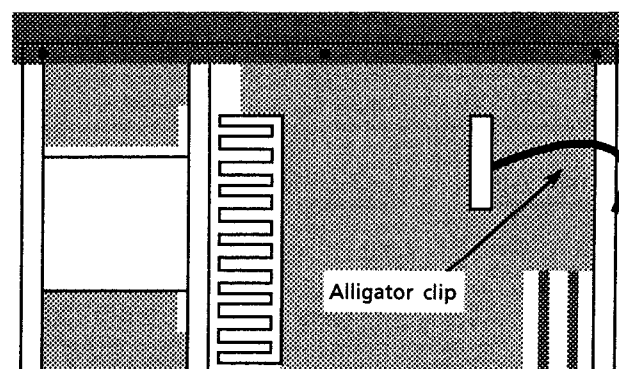


Fig3. After removing the bottom cover

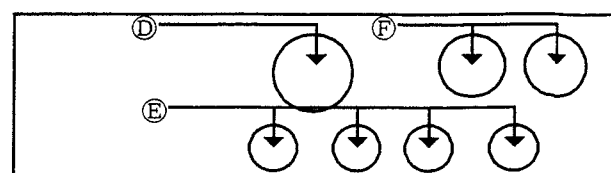


Fig4. Front View

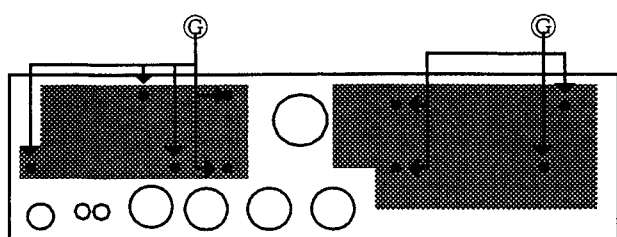


Fig5. Front Panel Ass'y

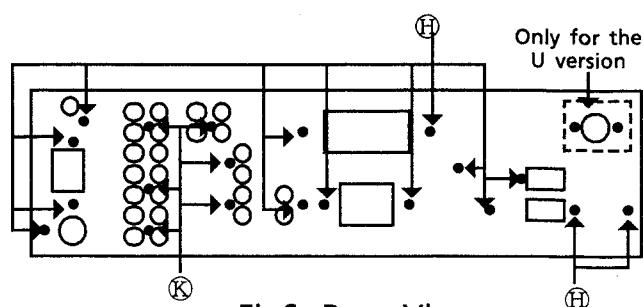


Fig6. Rear View

ADJUSTMENT PROCEDURES

■ Tuner section

Tuning range

Area	Renge	
	MW (Kz)	FM (Mz)
U.S.A. , Canada, Australia, Universal	522~1629	87.5~108

(1) Tuning Voltage

Confirm the voltages in the table at TP101. If voltages are not satisfied, replace T101 for MW, FE101 for FM.

FM Tuning voltage (Unit: V)

Area	Frequency	
	87.5MHz	108MHz
U.S.A. , Canada, Australia, Universal	1.6 ± 1.0	8.0 ± 2.0

AM Tuning voltage (Unit : V)

Area	Frequency (MW)						
	522KHz	530KHz	531KHz	1600KHz	1602KHz	1629KHz	1710KHz
U.S.A. , Canada	—	0.9 ± 0.2	—	—	—	—	8.0 ± 0.8
Australia	0.9 ± 0.2	—	—	—	—	7.5 ± 0.8	—
Universal (Chanel space 9kHz)	—	—	0.9 ± 0.2	—	7.2 ± 0.7	—	—
Universal (Chanel space 10kHz)	—	0.9 ± 0.2	—	7.2 ± 0.7	—	—	—

(2) FM Center meter

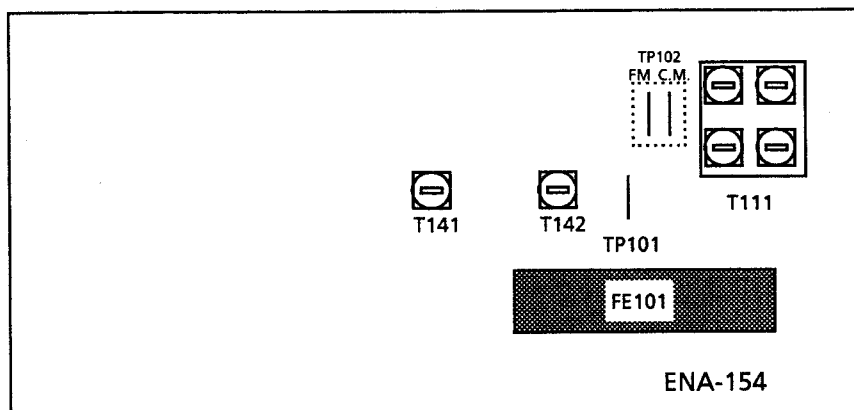
Receive a broadcast by using the function of 'AUTO STOP'.

Adjust T105 (Detector coil) so that the voltage at TP102 becomes $0 \pm 1.5\text{mV}$.

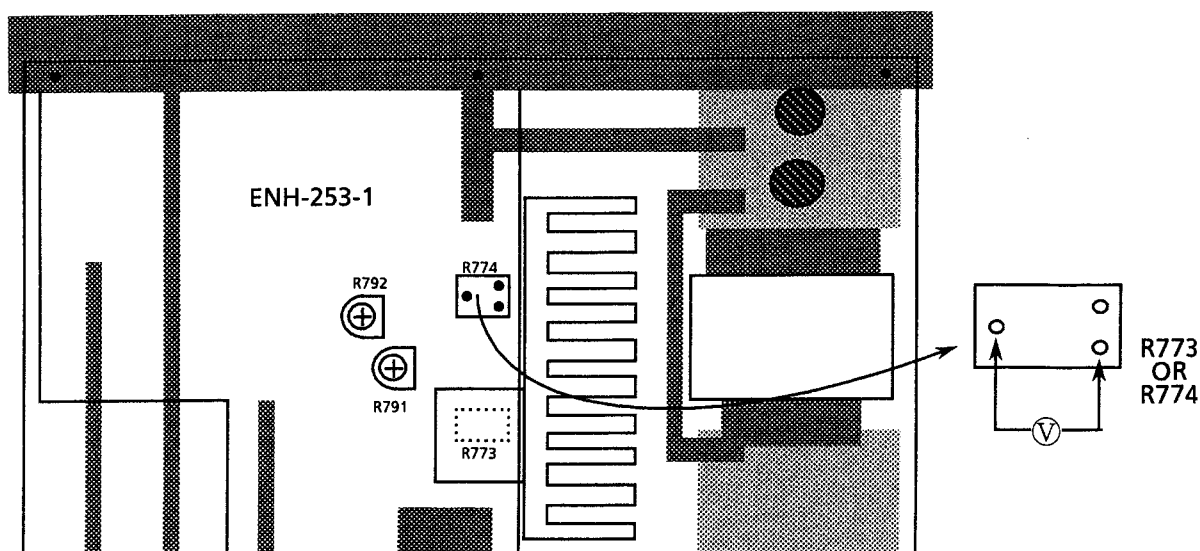
(3) MW Tracking

Adjust T101 (Antenna coil) to obtain the best receiving sensitivity on 600kHz or 603kHz.

Adjust TC105 (Antenna trimmer) to obtain the best receiving sensitivity on 1400kHz or 1404kHz.



■ Power Amplifier section

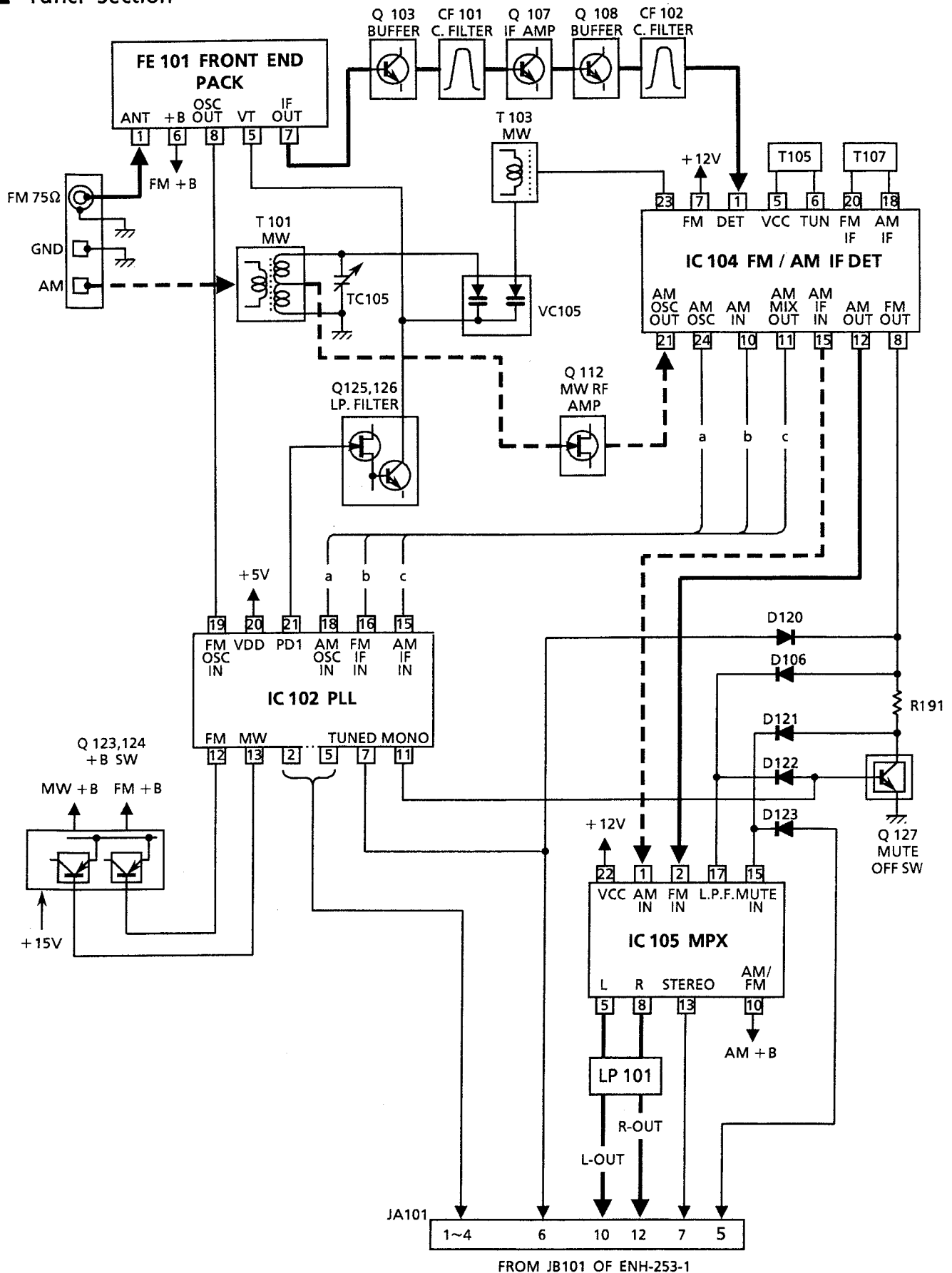


(1) Idling current

- ① Set the volume control to minimum during this adjustment.
- ② Turn R791 and R792 fully counterclockwise to warm up before adjustment.
If the heatsink is already warm from previous use the correct adjustment can not be made.
- ③ Connect a DC voltmeter to R773 resistor's leads for left channel, or to R774 for right channel.
- ④ Adjust R773 for left channel, or R774 for right channel, so that the DC voltmeter becomes $2\text{mV} \sim 7\text{mV}$.

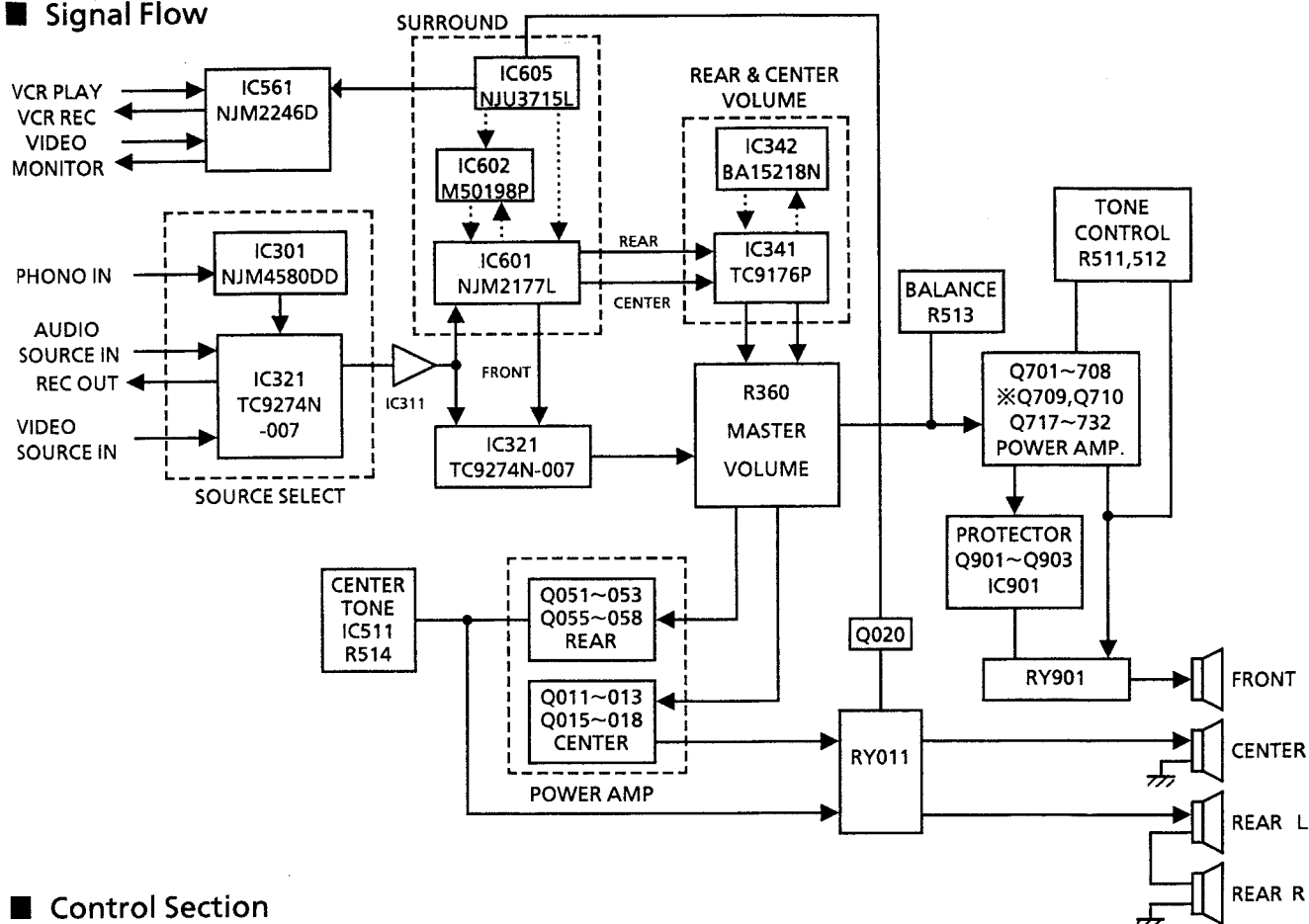
RX-516VBK
RX-517VTN

■ Tuner Section

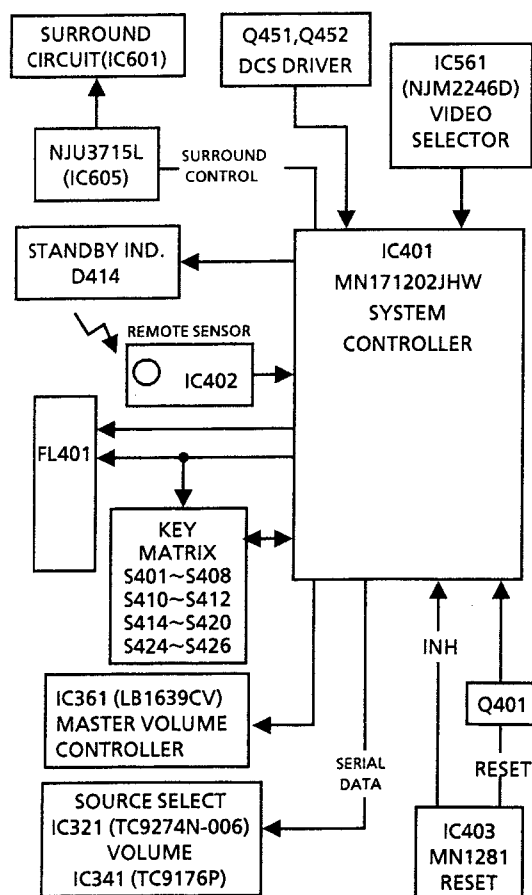


FROM JB101 OF ENH-253-1

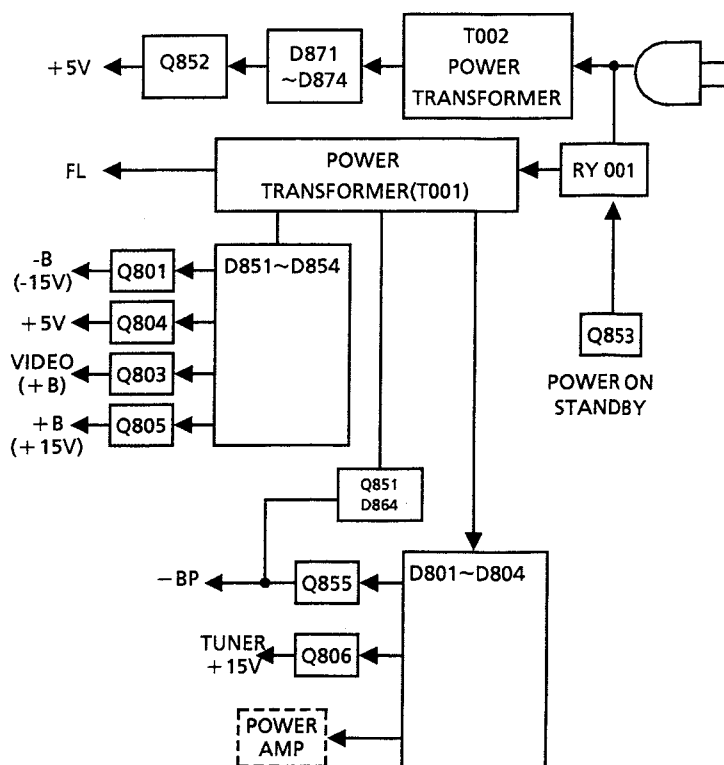
■ Signal Flow



■ Control Section



■ Power Supply Section

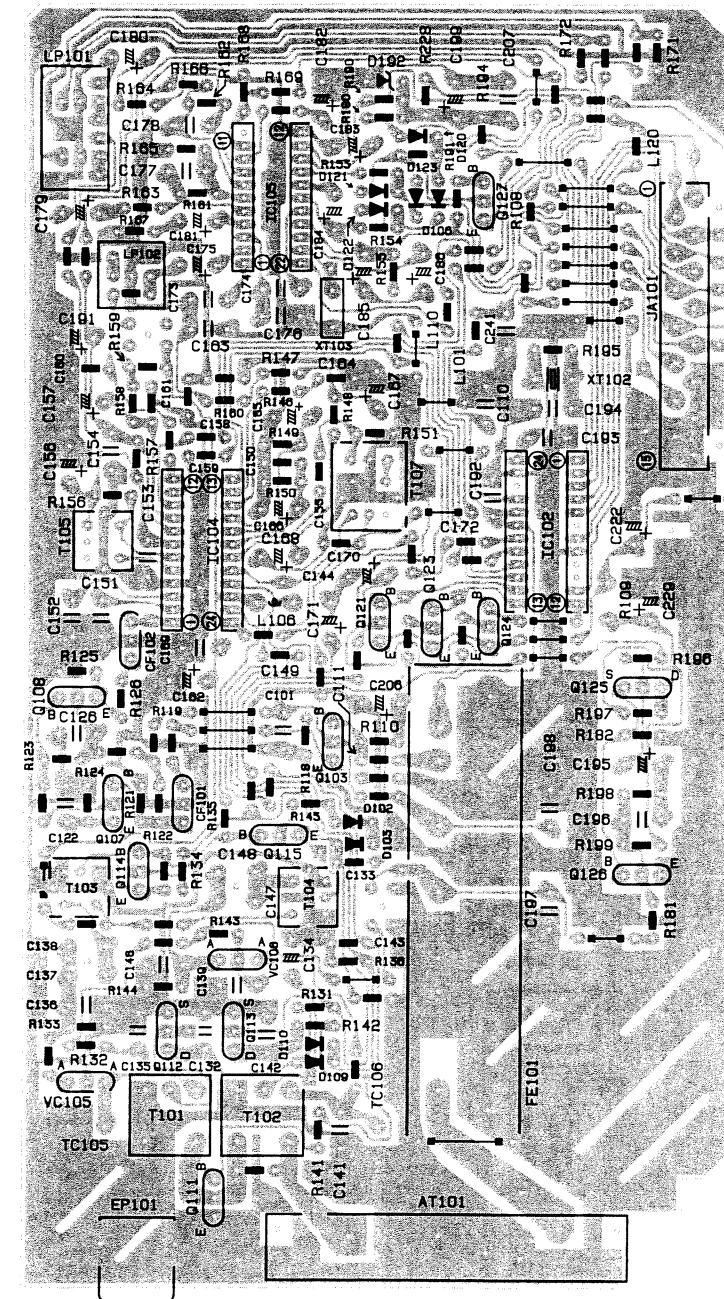


RX-516VBK
RX-517VTN

— MEMO —

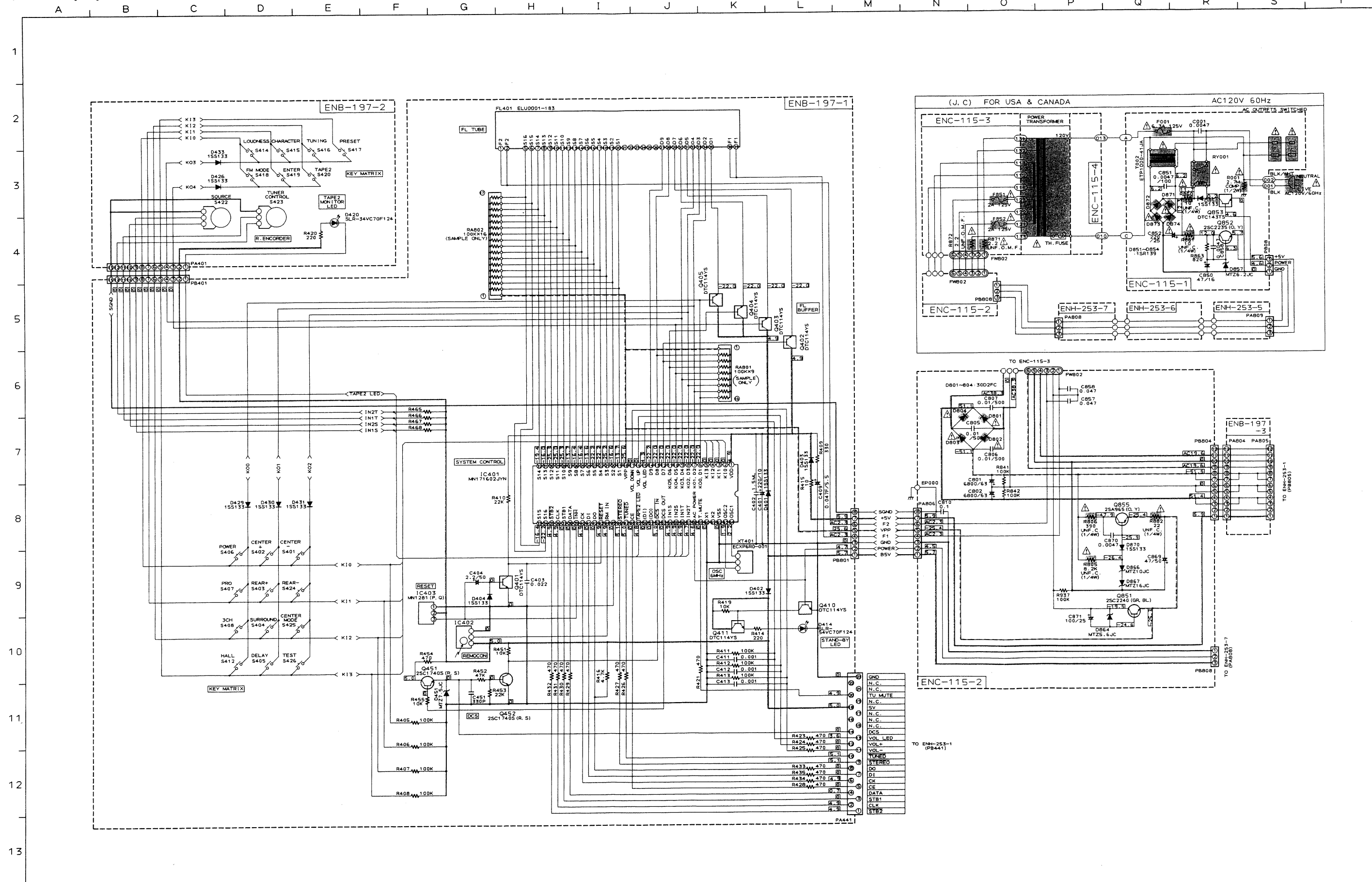
RX-516VBK
RX-517VTN

(4) Tuner P.C. Board (ENA-152)

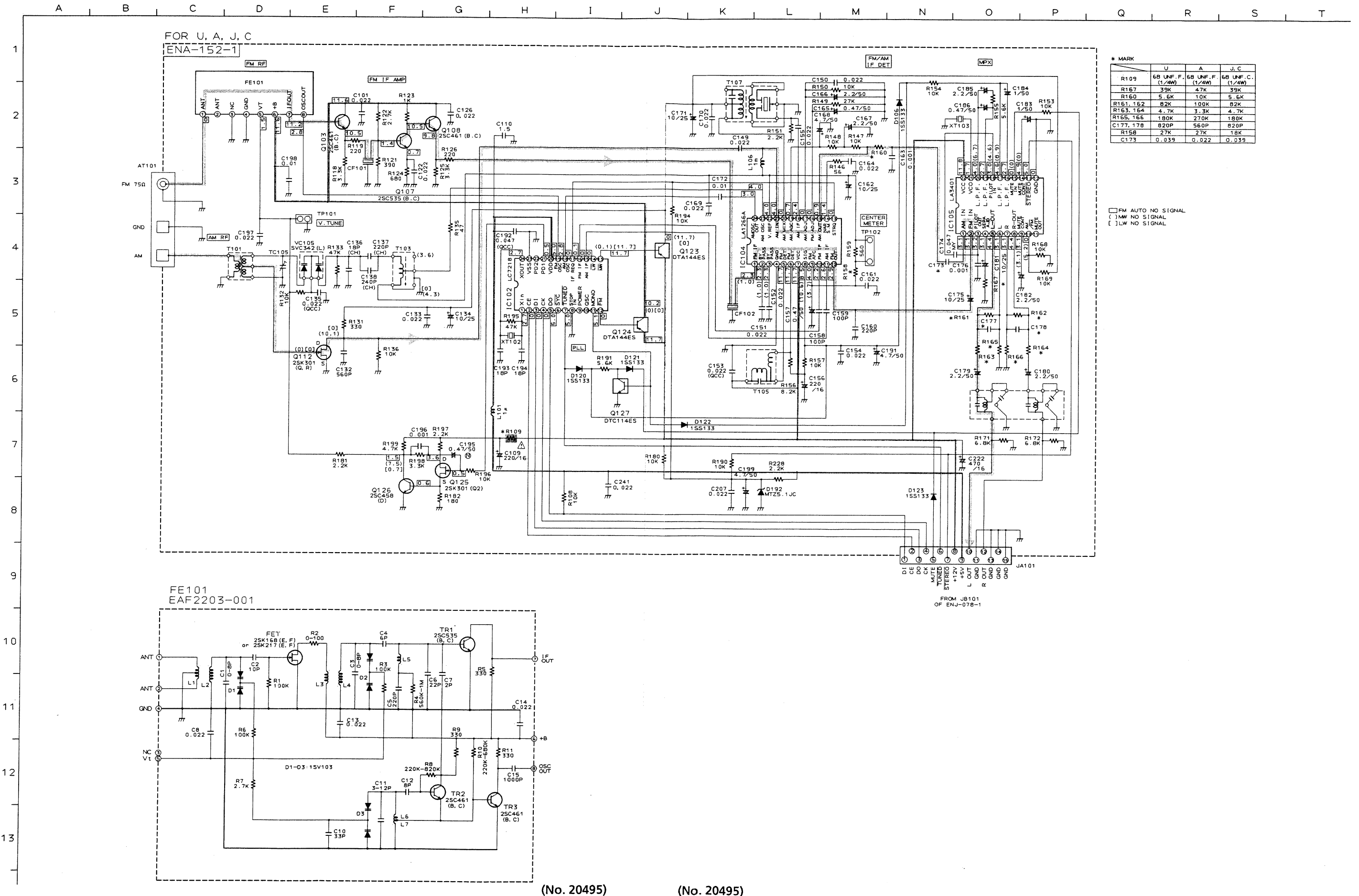


(No. 20495)

(3) FL Display and Power Supply Section



(4) Tuner Section

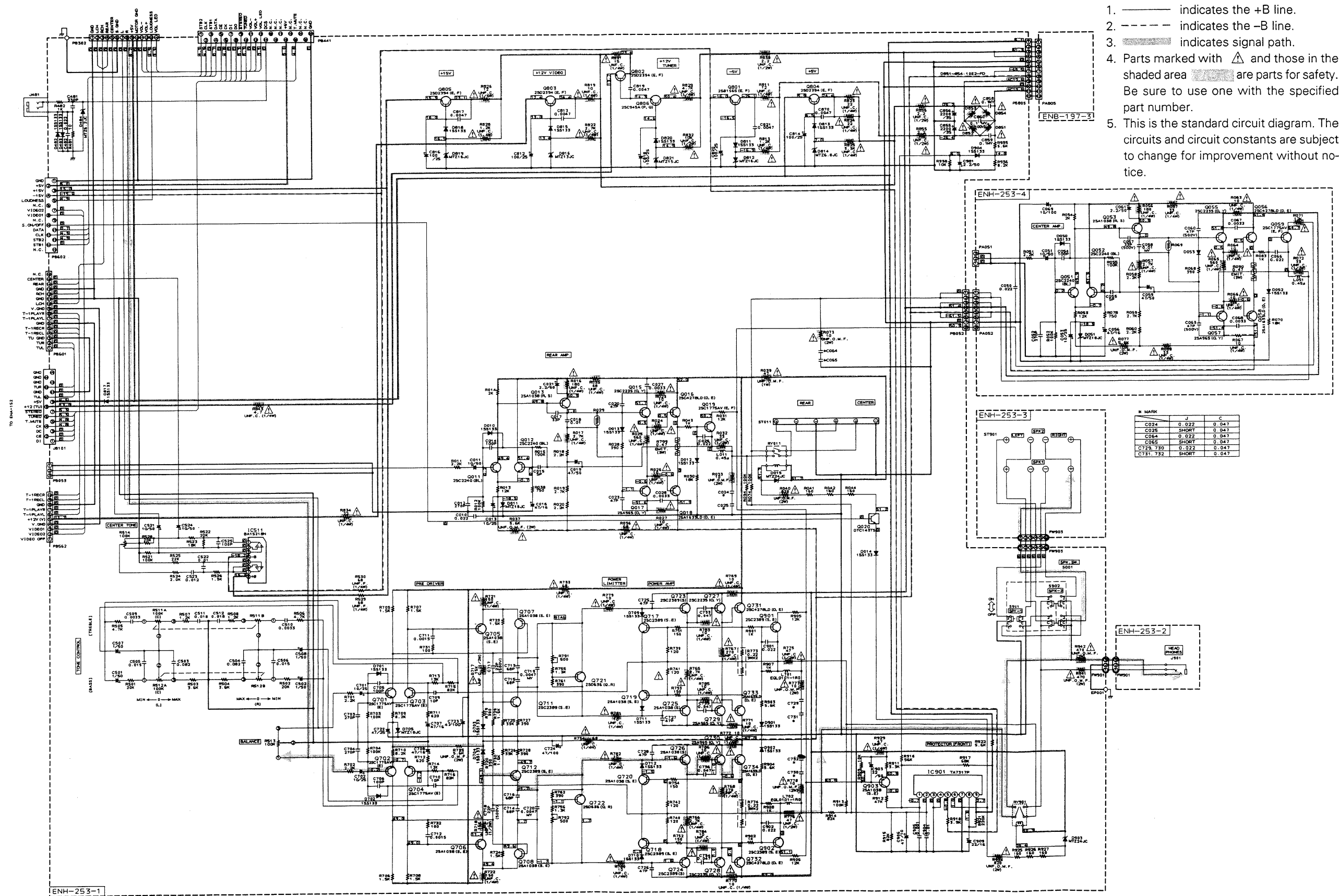


Schematic Diagrams

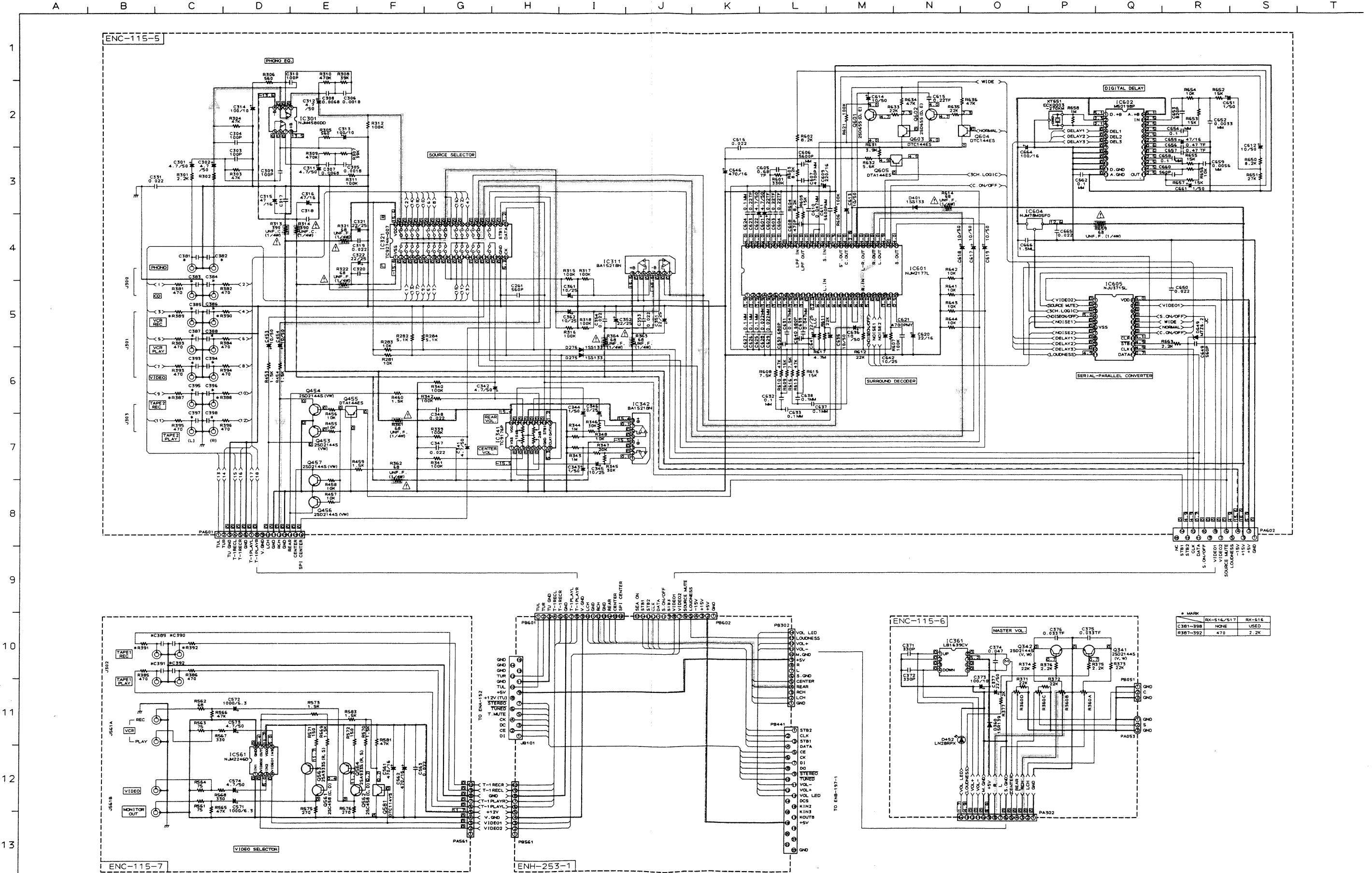
(1) Power Amplifier Section

How to Use Schematic Diagrams

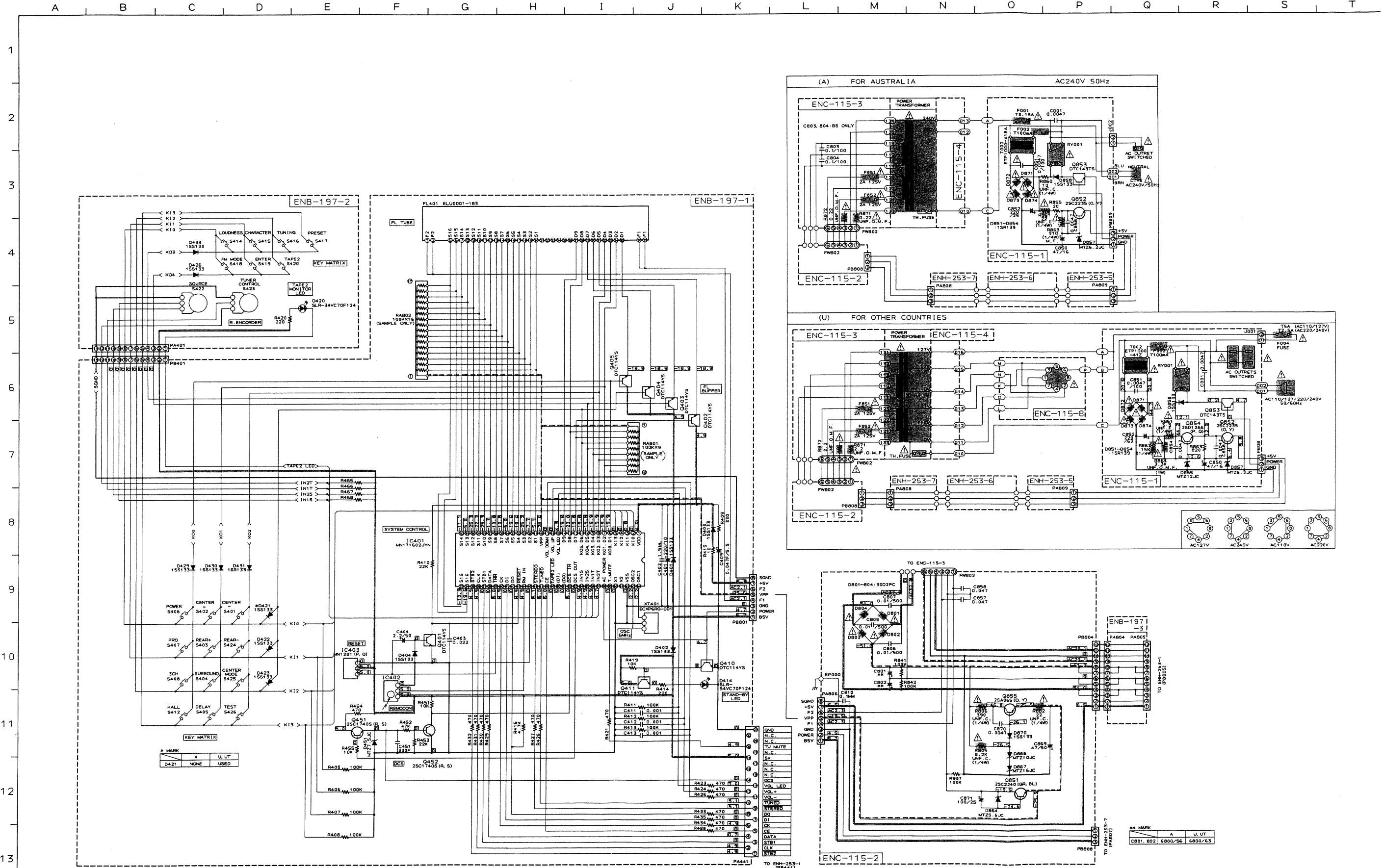
1. ——— indicates the +B line.
2. - - - - indicates the -B line.
3. ■■■■■ indicates signal path.
4. Parts marked with Δ and those in the shaded area ■■■■■ are parts for safety. Be sure to use one with the specified part number.
5. This is the standard circuit diagram. The circuits and circuit constants are subject to change for improvement without notice.



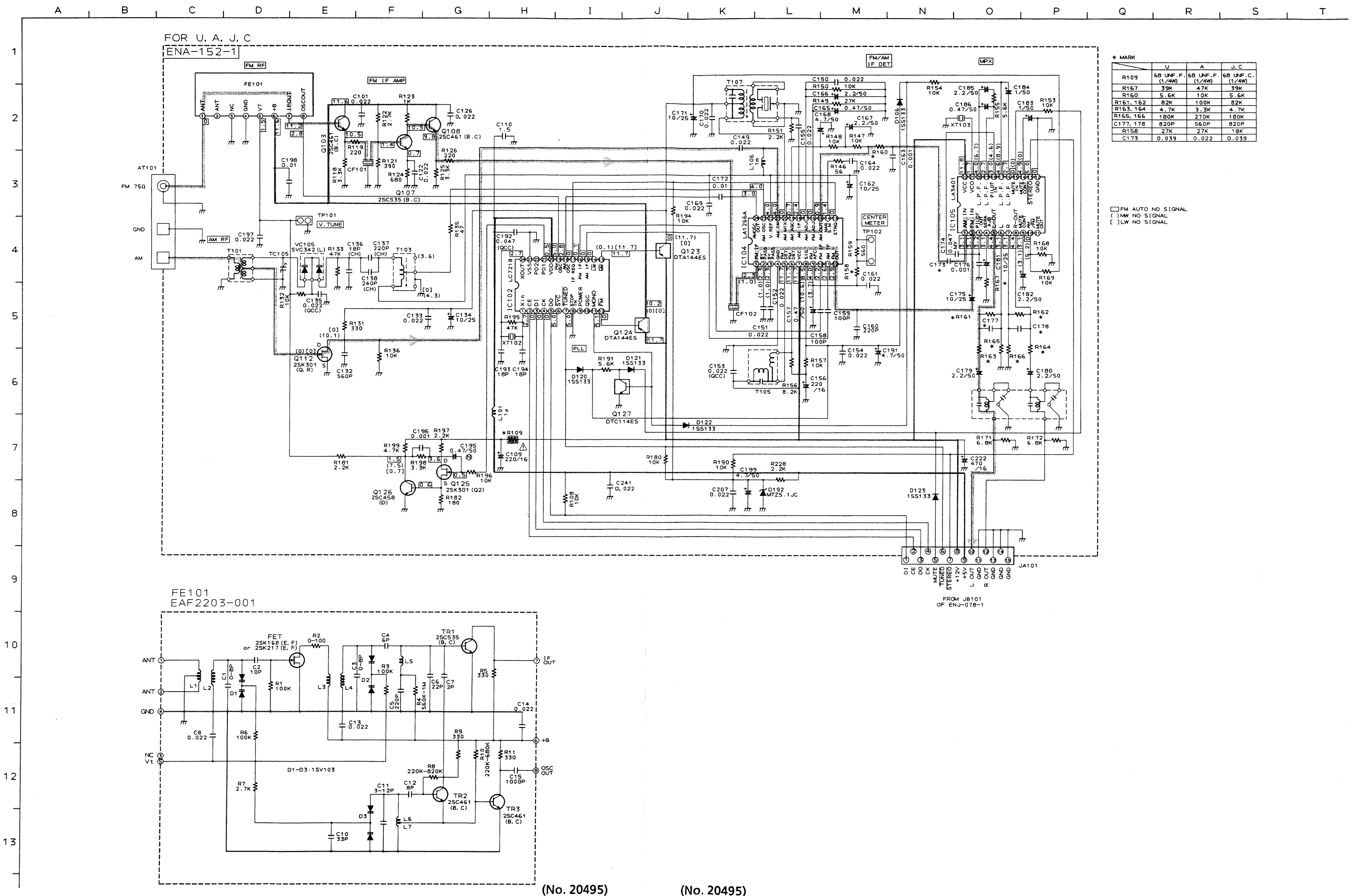
(2) Input Selector and Surround Section



(3) FL Display and Power Supply Section

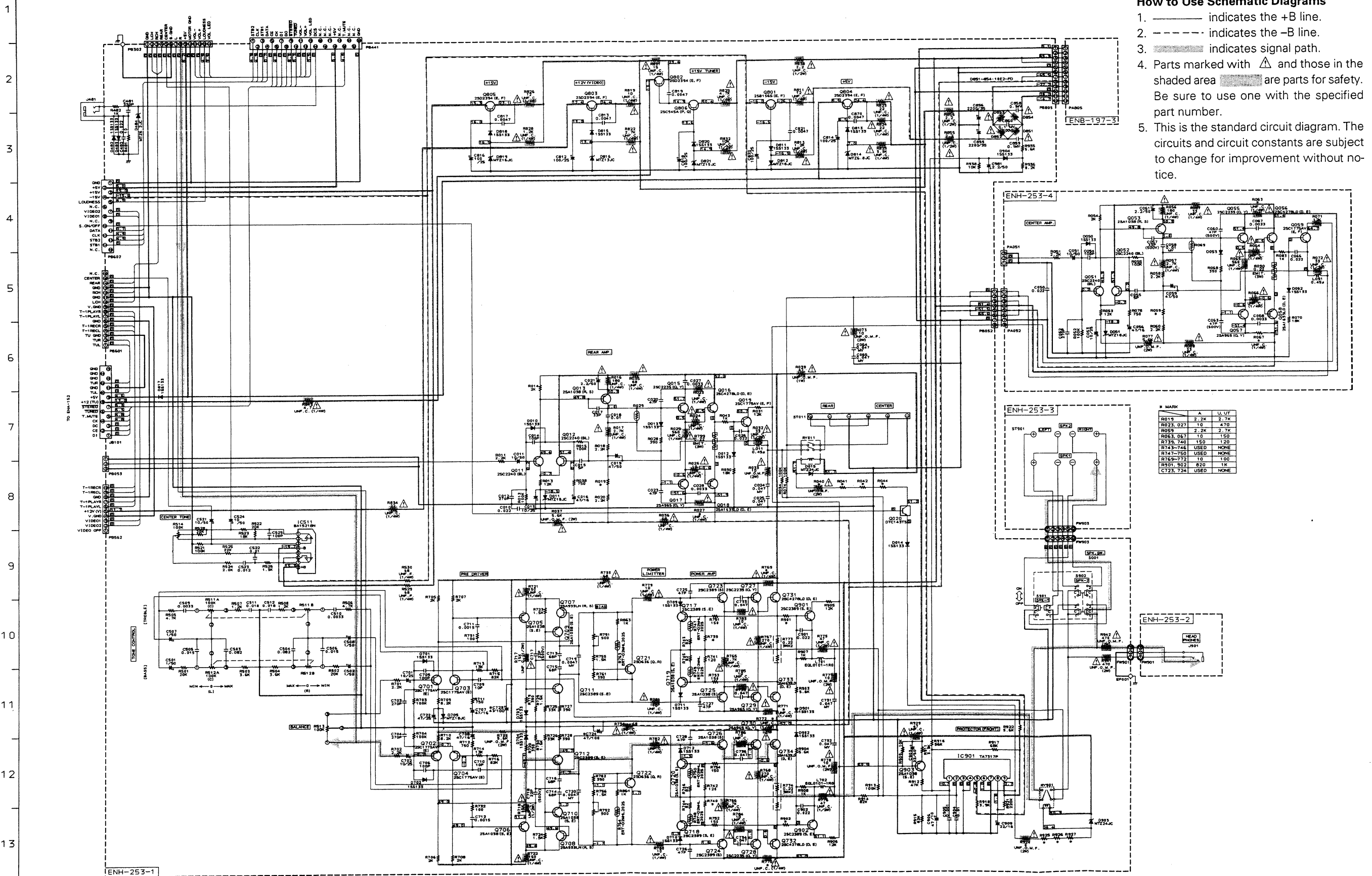


(4) Tuner Section

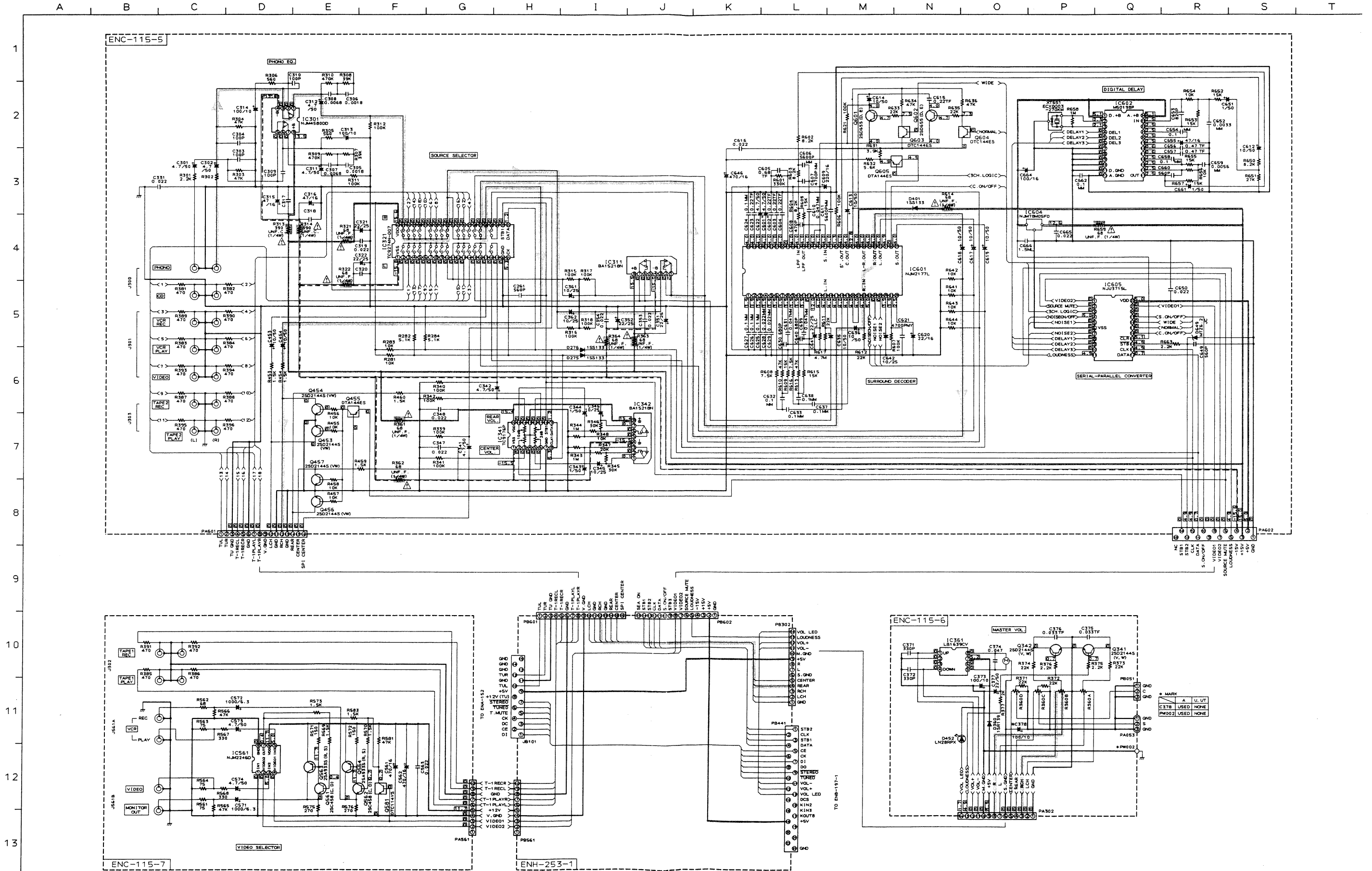


Schematic Diagrams

(1) Power Amplifier Section



(2) Input Selector and Surround Section



PARTS LIST

Note : All printed circuit board assemblies are not available as service parts.

Contents

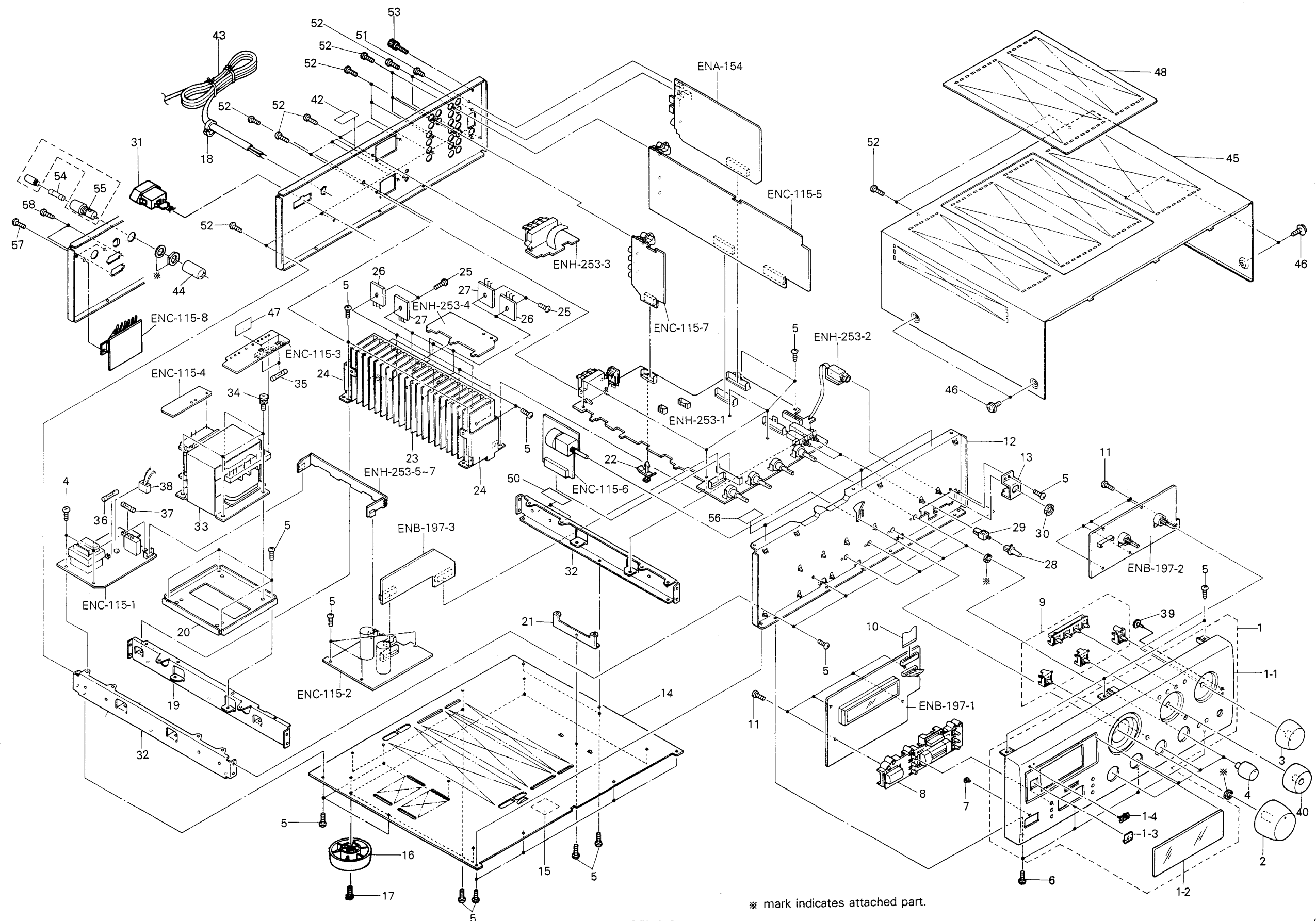
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— MEMO —

General Exploded View and Parts List

Symbol No.

M	1	M	M
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■ PARTS LIST

Symbol No.

M	1	M	M
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Item	Part Number	Part Name	Q'ty	Description	Area
1	EFP-RX516VBKU(S)	FRONT PANEL	1		
1-1	E102909-015SM	FRONT PANEL	1		
1-2	E309112-006SM	WINDOW SCREEN	1		
1-3	E72436-006	REMORT SCREEN	1		
1-4	VJD5429-001	JVC MARK	1		
2	E309107-001SM	VOLUME KNOB	1		
3	E309110-001SM	SELECT KNOB	1		
4	E309111-003SM	BALANCE KNOB	4		
5	SBSG3008CC	TAPPING SCREW	40		
6	SDSG3008M	TAPPING SCREW	4		
7	FSJD4001-002	INDICATOR	1		
8	E208276-001SM	PUSH BUTTON	1		
9	E309105-001SM	PUSH BUTTON	1		
10	EWR623K-40TT	FLAT WIRE	1		
11	SDSF2608Z	SCREW	9		
12	E102911-001SM	FRONT BRACKET	1		
13	E407323-002SM	HEADPHONE BRACKET	1		
14	E102820-001SM	CHASSIS BASE	1		
15	E70115-002	CAUTION LABEL	1		
16	VJF4039-00H	FOOT	4		
17	SBST3010Z	TAPPING SCREW	4		
18	QHS3876-162	CORD STOPPER	1		
19	E208082-002SM	CENTER BRACKET	1		
20	E308837-003SM	TRANSFORMER BRACKET	1		A
	E309450-001SM	TRANS BKT	1		U
21	E309450-001SM	TRANS BKT	1		UT
22	E407984-001SM	P.W.BOARD HOLDER	1		
23	E406084-002	FASTENER	1		
24	E308835-003SM	HEAT SINK	1		
25	E308836-002SM	HEAT SINK BRACKET	2		
26	E73525-003	SCREW	8		
27	2SC4278LD(D,E)	SI.TRANSISTOR	4		
28	2SA1633LD(D,E)	SI.TRANSISTOR	4		
29	E407321-002SM	PUSH BUTTON	2		
30	E407983-001SM	PUSH SHAFT	2		
31	VKZ4150-001	NUT	1		A
32	EMC0238-001	AC SOCKET	1		
33	E208081-002SM	SIDE BRACKET	2		
34	ETP1200-64EAJ	POWER TRANSFORMER	1		A
35	ETP1200-64FAJ	POWER TRANSFORMER	1		U
36	ETP1200-64FAJ	POWER TRANSFORMER	1		UT
37	E65389-006	SPECIAL SCREW	4		
38	QMF51E2-2R0	FUSE	2		
39	QMF51A2-R10S	FUSE	1		
40	QMF51E2-3R15J1	FUSE	1		A
41	EWS282-003	SOCKET WIRE	1		A
42	EWS282-008	SOCKET WIRE ASSY	1		UT
43	EWS282-008	SOCKET WIRE ASSY	1		U
44	E408326-001SM	INDICATOR LENS	1		
45	E309110-003SM	SELECT KNOB	1		
46	E406309-002	SPACER	4		
47	E306805-145	SPACER	1		U
48	E306805-145	SPACER	1		UT

Item	Part Number	Part Name	Q'ty	Description	Area
43	QMP25F0-244	POWER CORD	1		A
	QMP7520-200	POWER CORD	1		U
	QMP7520-200	POWER CORD	1		UT
44	E69291-001	FUSE COVER	1		U
	E69291-001	FUSE COVER	1		UT
45	E207378-014	METAL COVER	1		
46	E61660-004	SPECIAL SCREW	4		
47	E67132-T2R0	FUSE LABEL	2		
48	E208294-001	PROTECTOR COVER	1		
49	E102821-016SM	REAR PANEL	1		A
	E102821-015SM	REAR PANEL	1		U
50	E102821-015SM	REAR PANEL	1		UT
	E306805-153	SPACER	4		U
	E306805-153	SPACER	4		UT
51	SBST3006M	TAPPING SCREW	1		
52	E73273-006	SPECIAL SCREW	19		
53	E408091-001	EARTH PLUG	1		
54	QMF51E2-2R5J1	FUSE	1		U
	QMF51E2-2R5J1	FUSE	1		UT
55	QMG0301-003	FUSE HOLDER	1		U
	QMG0301-003	FUSE HOLDER	1		UT
56	E306805-127	SPACER	2		A
	E306805-146	SPACER	3		U
	E306805-146	SPACER	3		UT
57	E73273-006	SPECIAL SCREW	2		U
	E73273-006	SPECIAL SCREW	2		UT
58	SDSG3008M	TAPPING SCREW	2		U
	SDSG3008M	TAPPING SCREW	2		UT
-	E75139-001	NAME LABEL	1		
-	E75139-003	Z LABEL	1		
-	E72430-002	LABEL	1		
-	E61029-005	NUMBER LABEL	1		
-	E309384-004	RATING LABEL	1		UT

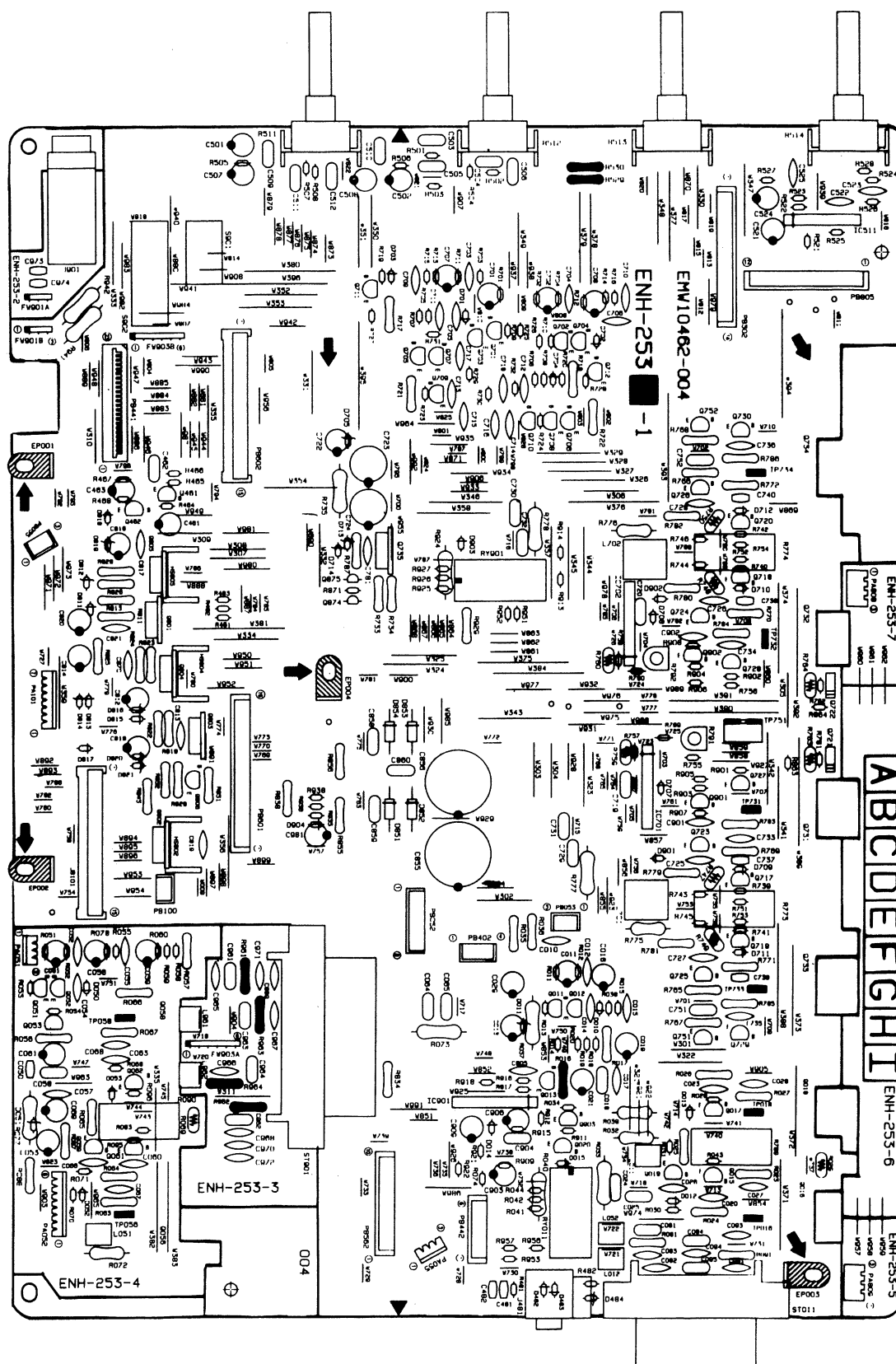
The Marks for Designated Areas

A Australia U Universal UT Taiwan
 No mark indicates all area.

Printed Circuit Board Ass'y and Parts List

■ ENH-253 □ Amplifier PC Board Assy

Note: ENH-253 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Version	Designated Areas
ENH-253 B	A	Australia
ENH-253 C	U UT	Universal Type Taiwan

Transistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q011	2SC2240(BL)	SI. TRANSIST	
	Q012	2SC2240(BL)	SI. TRANSIST	
	Q013	2SA1038(R,S)	SI. TRANSIST ROHM	
	Q015	2SC2235(O,Y)	SI. TRANSIST TOSHIBA	
	Q017	2SA965(Y)	SI. TRANSIST TOSHIBA	
	Q019	2SC1775AV(F1)	SI. TRANSIST HITACHI	
	Q020	DTC143TS	DIGITAL TRA ROHM	
	Q051	2SC2240(BL)	SI. TRANSIST	
	Q052	2SC2240(BL)	SI. TRANSIST	
	Q053	2SA1038(R,S)	SI. TRANSIST ROHM	
	Q055	2SC2235(O,Y)	SI. TRANSIST TOSHIBA	
	Q057	2SA965(Y)	SI. TRANSIST TOSHIBA	
	Q059	2SC1775AV(F1)	SI. TRANSIST HITACHI	
	Q701	2SC1775AV(F1)	SI. TRANSIST HITACHI	
	Q702	2SC1775AV(F1)	SI. TRANSIST HITACHI	
	Q703	2SC1775AV(F1)	SI. TRANSIST HITACHI	
	Q704	2SC1775AV(F1)	SI. TRANSIST HITACHI	
	Q705	2SA1038(R,S)	SI. TRANSIST ROHM	
	Q706	2SA1038(R,S)	SI. TRANSIST ROHM	
	Q707	2SA933LN(R,S)	SI. TRANSIST ROHM	
	Q708	2SA933LN(R,S)	SI. TRANSIST ROHM	
	Q709	2SA1038(R,S)	SI. TRANSIST ROHM	
	Q710	2SA1038(R,S)	SI. TRANSIST ROHM	
	Q711	2SC2389(S,E)	SI. TRANSIST ROHM	
	Q712	2SC2389(S,E)	SI. TRANSIST ROHM	
	Q717	2SC2389(S,E)	SI. TRANSIST ROHM	
	Q718	2SC2389(S,E)	SI. TRANSIST ROHM	
	Q719	2SA1038(R,S)	SI. TRANSIST ROHM	
	Q720	2SA1038(R,S)	SI. TRANSIST ROHM	
	Q721	2SD636	SI. TRANSIST MATSUSHITA	
	Q722	2SD636	SI. TRANSIST MATSUSHITA	
	Q723	2SC2389(S,E)	SI. TRANSIST ROHM	
	Q724	2SC2389(S,E)	SI. TRANSIST ROHM	
	Q725	2SA1038(R,S)	SI. TRANSIST ROHM	
	Q726	2SA1038(R,S)	SI. TRANSIST ROHM	
	Q727	2SC2235(O,Y)	SI. TRANSIST TOSHIBA	
	Q728	2SC2235(O,Y)	SI. TRANSIST TOSHIBA	
	Q729	2SA965(Y)	SI. TRANSIST TOSHIBA	
	Q730	2SA965(Y)	SI. TRANSIST TOSHIBA	
	Q801	2SB1565(E,F)	SI. TRANSIST ROHM	
	Q802	2SD2394(E,F)	SI. TRANSIST ROHM	
	Q803	2SD2394(E,F)	SI. TRANSIST ROHM	
	Q804	2SD2394(E,F)	SI. TRANSIST ROHM	
	Q805	2SD2394(E,F)	SI. TRANSIST ROHM	
	Q806	2SC945A	SI. TRANSIST NEC	
	Q901	2SC2389(S,E)	SI. TRANSIST ROHM	
	Q902	2SC2389(S,E)	SI. TRANSIST ROHM	
	Q903	2SA1038(R,S)	SI. TRANSIST ROHM	

Δ : ISIA/FIETY PARTS

I.C.s

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC511	BA15218N	I.C(MONO-AN ROHM	
	IC901	TA7317P	I.C(MONO-AN TOSHIBA	

Δ : ISIA/FIETY PARTS

Diodes

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	D010	1SS133	SI. DIODE ROHM	
	D011	MTZ18JC	ZENER DIODE ROHM	
	D012	1SS133	SI. DIODE ROHM	
	D013	1SS133	SI. DIODE ROHM	
	D014	1SS133	SI. DIODE ROHM	
	D015	MTZ24JC	ZENER DIODE ROHM	
	D050	1SS133	SI. DIODE ROHM	
	D051	MTZ18JC	ZENER DIODE ROHM	
	D052	1SS133	SI. DIODE ROHM	
	D053	1SS133	SI. DIODE ROHM	
	D482	1SS133	SI. DIODE ROHM	
	D483	1SS133	SI. DIODE ROHM	
	D484	MTZ6.2JC	ZENER DIODE ROHM	
	D701	1SS133	SI. DIODE ROHM	
	D702	1SS133	SI. DIODE ROHM	

Δ : ISIA/FIETY PARTS

Diodes

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	D703	1SS133	SI. DIODE ROHM	
	D704	1SS133	SI. DIODE ROHM	
	D705	MTZ18JC	ZENER DIODE ROHM	
	D709	1SS133	SI. DIODE ROHM	
	D710	1SS133	SI. DIODE ROHM	
	D711	1SS133	SI. DIODE ROHM	
	D712	1SS133	SI. DIODE ROHM	
	D811	1SS133	SI. DIODE ROHM	
	D812	MTZ16JC	ZENER DIODE ROHM	
	D813	1SS133	SI. DIODE ROHM	
	D814	MTZ6.8JC	ZENER DIODE ROHM	
	D815	1SS133	SI. DIODE ROHM	
	D816	MTZ13JC	ZENER DIODE ROHM	
	D817	1SS133	SI. DIODE ROHM	
	D818	1SS133	SI. DIODE ROHM	
	D819	MTZ16JC	ZENER DIODE ROHM	
	D820	1SS133	SI. DIODE ROHM	
	D821	MTZ15JC	ZENER DIODE ROHM	
Δ	D851	10E2-FD	DIODE NIHONINTER	
Δ	D852	10E2-FD	DIODE NIHONINTER	
Δ	D853	10E2-FD	DIODE NIHONINTER	
Δ	D854	10E2-FD	DIODE NIHONINTER	
	D901	1SS133	SI. DIODE ROHM	
	D902	1SS133	SI. DIODE ROHM	
	D903	MTZ24JC	ZENER DIODE ROHM	
	D904	1SS133	SI. DIODE ROHM	

Δ : ISIA/FIETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	C010	QCF21HP-223A	0.022MF 50V CER. CAPACI	
	C011	QETB1HM-106	10MF 50V E. CAPACITO	
	C012	QCS31HJ-271Z	270PF 50V CER. CAPACI	
	C013	QETB1EM-106	10MF 25V AL E. CAPAC	
	C014	QCS31HJ-101Z	100PF 50V CER. CAPACI	
	C015	QCS31HJ-5R0Z	5PF 50V CER. CAPACI	
	C016	QETB1CM-476	47MF 16V AL E. CAPAC	
	C017	QCS22HJ-330	33PF 500V CER. CAPACI	
	C018	QFLC1HJ-103ZM	0.01MF 50V METAL. MYLA	
	C019	QETB1HM-476	47MF 50V E. CAPACITO	
	C020	QCS32HJ-470	47PF 500V CER. CAPACI	
	C021	QETB1HM-225	2.2MF 50V AL E. CAPAC	
	C023	QCS32HJ-470	47PF 500V CER. CAPACI	
	C024	QFLC1HJ-473ZM	0.047MF 50V METAL. MYLA	
	C025	QFLC1HJ-473ZM	0.047MF 50V METAL. MYLA	
	C026	QCF21HP-223A	0.022MF 50V CER. CAPACI	
	C027	QCY31HK-332Z	3300PF 50V CER. CAPACI	
	C028	QCY31HK-332Z	3300PF 50V CER. CAPACI	
	C050	QCHB1EZ-223	0.022MF 25V CER. CAPACI	
	C051	QETB1HM-106	10MF 50V E. CAPACITO	
	C052	QCS31HJ-271Z	270PF 50V CER. CAPACI	
	C053	QETB1EM-106	10MF 25V AL E. CAPAC	
	C054	QCS31HJ-101Z	100PF 50V CER. CAPACI	
	C055	QCS31HJ-5R0Z	5PF 50V CER. CAPACI	
	C056	QETB1CM-476	47MF 16V AL E. CAPAC	
	C057	QCS22HJ-330	33PF 500V CER. CAPACI	
	C058	QFLC1HJ-103ZM	0.01MF 50V METAL. MYLA	
	C059	QETB1HM-476	47MF 50V E. CAPACITO	
	C060	QCS32HJ-470	47PF 500V CER. CAPACI	
	C061	QETB1HM-225	2.2MF 50V AL E. CAPAC	
	C063	QCS32HJ-470	47PF 500V CER. CAPACI	
	C064	QFLC1HJ-473ZM	0.047MF 50V METAL. MYLA	
	C065	QFLC1HJ-473ZM	0.047MF 50V METAL. MYLA	
	C066	QCF21HP-223A	0.022MF 50V CER. CAPACI	
	C067	QCY31HK-332Z	3300PF 50V CER. CAPACI	
	C068	QCY31HK-332Z	3300PF 50V CER. CAPACI	
	C481	QCB81HK-331Y	330PF 50V CER. CAPACI	
	C482	QCHB1EZ-223	0.022MF 25V CER. CAPACI	
	C501	QETB1HM-105	1MF 50V AL E. CAPAC	
	C502	QETB1HM-105	1MF 50V AL E. CAPAC	
	C503	QFLC1HJ-823ZM	0.082MF 50V AL E. CAPAC	
	C504	QFLC1HJ-823ZM	0.082MF 50V AL E. CAPAC	
	C505	QFLC1HJ-153ZM	0.015MF 50V METAL. MYLA	
	C506	QFLC1HJ-153ZM	0.015MF 50V METAL. MYLA	
	C507	QETB1HM-105	1MF 50V AL E. CAPAC	
	C508	QETB1HM-105	1MF 50V AL E. CAPAC	
	C509	QFLC1HJ-332ZM	3300PF 50V METAL. MYLA	
	C510	QFLC1HJ-332ZM	3300PF 50V METAL. MYLA	
	C511	QFLC1HJ-183ZM	0.018MF 50V METAL. MYLA	
	C512	QFLC1HJ-183ZM	0.018MF 50V METAL. MYLA	
	C521	QETB1HM-106	10MF 50V E. CAPACITO	
	C522	QCY31HK-103Z	0.01MF 50V CER. CAPACI	
	C523	QFLC1HJ-123ZM	0.012MF 50V MYLAR CAPA	
	C524	QETB1HM-106	10MF 50V E. CAPACITO	
	C525	QCS21HJ-101A	100PF 50V CER. CAPACI	
	C701	QETB1HM-106	10MF 50V E. CAPACITO	
	C702	QETB1HM-106	10MF 50V E. CAPACITO	
	C703	QCS31HJ-271Z	270PF 50V CER. CAPACI	
	C704	QCS31HJ-271Z	270PF 50V CER. CAPACI	
	C705	QCS31HJ-101Z	100PF 50V CER. CAPACI	
	C706	QCS31HJ-101Z	100PF 50V CER. CAPACI	
	C707	QETB1CM-476	47MF 16V AL E. CAPAC	
	C708	QETB1CM-476	47MF 16V AL E. CAPAC	
	C709	QCS31HJ-100Z	10PF 50V CER. CAPACI	
	C710	QCS31HJ-100Z	10PF 50V CER. CAPACI	

Δ : ISIA/FIETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
	C711	QCY31HK-152Z	1500PF	50V	CER.CAPACI	
	C712	QCY31HK-152Z	1500PF	50V	CER.CAPACI	
	C713	QCS31HJ-680Z	68PF	50V	CER.CAPACI	
	C714	QCS31HJ-680Z	68PF	50V	CER.CAPACI	
	C715	QCS31HJ-680Z	68PF	50V	CER.CAPACI	
	C716	QCS31HJ-680Z	68PF	50V	CER.CAPACI	
	C717	QCS22HJ-220	22PF	500V	CER.CAPACI	
	C718	QCS22HJ-220	22PF	500V	CER.CAPACI	
	C719	QFLC1HJ-472ZM	4700PF	50V	METAL.MYLA	
	C720	QFLC1HJ-472ZM	4700PF	50V	METAL.MYLA	
	C722	QETB1EM-476	47MF	25V	AL E.CAPAC	
	C723	QETB2AM-476	47MF	100V	AL E.CAPAC	A
	C724	QETB2AM-476	47MF	100V	AL E.CAPAC	A
	C725	QCS32HJ-470	47PF	500V	CER.CAPACI	
	C726	QCS32HJ-470	47PF	500V	CER.CAPACI	
	C727	QCS32HJ-470	47PF	500V	CER.CAPACI	
	C728	QCS32HJ-470	47PF	500V	CER.CAPACI	
	C729	QFLC1HJ-473ZM	0.047MF	50V	METAL.MYLA	
	C730	QFLC1HJ-473ZM	0.047MF	50V	METAL.MYLA	
	C731	QFLC1HJ-473ZM	0.047MF	50V	METAL.MYLA	
	C732	QFLC1HJ-473ZM	0.047MF	50V	METAL.MYLA	
	C733	QCF21HP-472	4700PF	50V	CER.CAPACI	
	C734	QCF21HP-472	4700PF	50V	CER.CAPACI	
	C735	QCF21HP-472	4700PF	50V	CER.CAPACI	
	C736	QCF21HP-472	4700PF	50V	CER.CAPACI	
	C812	QETB1EM-107	100MF	25V	AL E.CAPAC	
	C813	QCF21HP-472	4700PF	50V	CER.CAPACI	
	C814	QETB1EM-107	100MF	25V	AL E.CAPAC	
	C816	QETB1EM-107	100MF	25V	AL E.CAPAC	
	C817	QCF21HP-472	4700PF	50V	CER.CAPACI	
	C818	QETB1EM-107	100MF	25V	AL E.CAPAC	
	C819	QCF21HP-472	4700PF	50V	CER.CAPACI	
	C820	QETB1EM-107	100MF	25V	AL E.CAPAC	
	C821	QCF21HP-472	4700PF	50V	CER.CAPACI	
	C855	QETB1VM-228N	2200MF	35V	E.CAPACITO	
	C856	QETB1VM-228N	2200MF	35V	E.CAPACITO	
	C858	QFN82AJ-104	0.1MF	100V	MYLAR CAPA	
	C859	QFN82AJ-104	0.1MF	100V	MYLAR CAPA	
	C860	QFN82AJ-104	0.1MF	100V	MYLAR CAPA	
	C870	QCF21HP-472	4700PF	50V	CER.CAPACI	
	C901	QCF21HP-223A	0.022MF	50V	CER.CAPACI	
	C902	QCF21HP-223A	0.022MF	50V	CER.CAPACI	
	C903	QETB1HM-226E	22MF	50V	E.CAPACITO	
	C904	QCF31HP-103Z	0.01MF	50V	CER.CAPACI	
	C905	QCY31HK-102Z	1000PF	50V	CER.CAPACI	
	C906	QETB1AM-476	47MF	10V	E.CAPACITO	
	C909	QETB1CM-226	22MF	16V	E.CAPACITO	
	C981	QETB1HM-225	2.2MF	50V	AL E.CAPAC	

Δ IS SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
	R011	QRD161J-222	2.2K	1/6W	CARBON RES	
	R012	QRD161J-104	100K	1/6W	CARBON RES	
	R013	QRD161J-123	12K	1/6W	CARBON RES	
	R014	QRD161J-202	2K	1/6W	CARBON RES	
	R015	QRD161J-104	100K	1/6W	CARBON RES	
Δ	R016	QRD14CJ-181S	180	1/4W	UNF.CARBON	
Δ	R017	QRD14CJ-272S	2.7K	1/4W	UNF.CARBON	
	R018	QRD161J-222	2.2K	1/6W	CARBON RES	
	R019	QRD161J-222	2.2K	1/6W	CARBON RES	A
	R019	QRD167J-272	2.7K	1/6W	CARBON RES	U
	R019	QRD167J-272	2.7K	1/6W	CARBON RES	UT
	R020	QRD161J-222	2.2K	1/6W	CARBON RES	
Δ	R023	QRD14CJ-100SX	10	1/4W	UNF.CARBON	A
Δ	R023	QRD14CJ-471SX	470	1/4W	UNF.CARBON	U
Δ	R023	QRD14CJ-471SX	470	1/4W	UNF.CARBON	UT
Δ	R024	QRD14CJ-100SX	10	1/4W	UNF.CARBON	
Δ	R025	QRD14CJ-561SX	560	1/4W	UNF.CARBON	
Δ	R026	QRD14CJ-100SX	10	1/4W	UNF.CARBON	
Δ	R027	QRD14CJ-100SX	10	1/4W	UNF.CARBON	A
Δ	R027	QRD14CJ-471SX	470	1/4W	UNF.CARBON	U
Δ	R027	QRD14CJ-471SX	470	1/4W	UNF.CARBON	UT
	R028	QRD161J-391	390	1/6W	CARBON RES	
	R029	ERT-D2WHL202S	2K	1/4W	NEGATIVE T	
	R030	QRD161J-183	18K	1/6W	CARBON RES	
	R031	QRD161J-123	12K	1/6W	CARBON RES	
Δ	R032	QRD125J-330	33	1/2W	UNF.CARBON	
Δ	R033	QRG022J-100A	10	2W	OXIDE META	
Δ	R034	QRD161J-104	100K	1/6W	CARBON RES	
Δ	R035	QRD14CJ-680SX	68	1/4W	UNF.CARBON	
Δ	R036	QRD14CJ-680SX	68	1/4W	UNF.CARBON	
Δ	R037	QRG022J-562A	5.6K	2W	OXIDE META	
Δ	R038	QRD167J-751	750	1/6W	CARBON RES	
Δ	R039	QRG012J-470A	47	1W	OXIDE META	
Δ	R040	QRG022J-821AM	820	2W	OXIDE META	A
Δ	R040	QRG022J-102AF	1K	2W	OXIDE META	U
Δ	R040	QRG022J-102AF	1K	2W	OXIDE META	UT
	R041	QRD167J-121	120	1/6W	CARBON RES	A
	R041	QRD161J-101	100	1/6W	CARBON RES	U
	R041	QRD161J-101	100	1/6W	CARBON RES	UT
	R042	QRD161J-101	100	1/6W	CARBON RES	A

Δ IS SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
	R042	QRD167J-151	150	1/6W	CARBON RES	U
	R042	QRD167J-151	150	1/6W	CARBON RES	UT
	R043	QRD161J-102	1K	1/6W	CARBON RES	
	R044	QRD161J-101	100	1/6W	CARBON RES	A
	R044	QRD167J-151	150	1/6W	CARBON RES	U
	R044	QRD167J-151	150	1/6W	CARBON RES	UT
	R051	QRD161J-222	2.2K	1/6W	CARBON RES	
	R052	QRD161J-104	100K	1/6W	CARBON RES	
	R053	QRD161J-123	12K	1/6W	CARBON RES	
	R054	QRD161J-202	2K	1/6W	CARBON RES	
	R055	QRD161J-104	100K	1/6W	CARBON RES	
Δ	R056	QRD14CJ-181S	180	1/4W	UNF.CARBON	
Δ	R057	QRD14CJ-272S	2.7K	1/4W	UNF.CARBON	
	R058	QRD161J-222	2.2K	1/6W	CARBON RES	
	R059	QRD161J-222	2.2K	1/6W	CARBON RES	A
	R059	QRD167J-272	2.7K	1/6W	CARBON RES	U
	R059	QRD167J-272	2.7K	1/6W	CARBON RES	UT
	R060	QRD161J-222	2.2K	1/6W	CARBON RES	
Δ	R063	QRD14CJ-100SX	10	1/4W	UNF.CARBON	A
Δ	R063	QRD14CJ-151SX	150	1/4W	UNF.CARBON	U
Δ	R063	QRD14CJ-151SX	150	1/4W	UNF.CARBON	UT
Δ	R064	QRD14CJ-100SX	10	1/4W	UNF.CARBON	
Δ	R065	QRD14CJ-561SX	560	1/4W	UNF.CARBON	
Δ	R066	QRD14CJ-100SX	10	1/4W	UNF.CARBON	
Δ	R067	QRD14CJ-100SX	10	1/4W	UNF.CARBON	A
Δ	R067	QRD14CJ-151SX	150	1/4W	UNF.CARBON	U
Δ	R067	QRD14CJ-151SX	150	1/4W	UNF.CARBON	UT
	R068	QRD161J-391	390	1/6W	CARBON RES	
	R069	ERT-D2WHL202S	2K	1/4W	NEGATIVE T	
	R070	QRD161J-183	18K	1/6W	CARBON RES	
	R071	QRD161J-123	12K	1/6W	CARBON RES	
Δ	R072	QRD125J-330	33	1/2W	UNF.CARBON	
Δ	R073	QRG022J-100AM	10	2W	OXIDE META	
	R074	QRD161J-104	100K	1/6W	CARBON RES	
Δ	R077	QRG022J-562A	5.6K	2W	OXIDE META	
	R078	QRD167J-751	750	1/6W	CARBON RES	
	R083	QRD161J-102	1K	1/6W	CARBON RES	
Δ	R087	QRD14CJ-330SX	33	1/4W	UNF.CARBON	
Δ	R088	QRD14CJ-330SX	33	1/4W	UNF.CARBON	
Δ	R090	ERF032K-R22	0.22	3W	CEM.RESIST	
	R481	QRD161J-100	10	1/6W	CARBON RES	
	R482	QRD161J-102	1K	1/6W	CARBON RES	
	R501	QRD161J-203	20K	1/6W	CARBON RES	
	R502	QRD161J-203	20K	1/6W	CARBON RES	
	R503	QRD161J-362	3.6K	1/6W	CARBON RES	
	R504	QRD161J-362	3.6K	1/6W	CARBON RES	
	R505	QRD161J-472	4.7K	1/6W	CARBON RES	
	R506	QRD161J-472	4.7K	1/6W	CARBON RES	
	R507	QRD161J-122	1.2K	1/6W	CARBON RES	
	R508	QRD161J-122	1.2K	1/6W	CARBON RES	
	R511	QVDB96C-E15CJ3	100K		VARIABLE R	
	R512	QVDB96C-E15CJ3	100K		VARIABLE R	
	R513	QVDA96W-E15DJ3	100K		VARIABLE R	
	R514	QVDB96C-E15DJ3	100K		VARIABLE R	
	R521	QRD161J-104	100K	1/6W	CARBON RES	
	R522	QRD161J-203	20K	1/6W	CARBON RES	
	R523	QRD161J-183	18K	1/6W	CARBON RES	
	R524	QRD161J-202	2K	1/6W	CARBON RES	
	R525	QRD167J-223	22K	1/6W	CARBON RES	
	R526	QRD161J-132	1.3K	1/6W	CARBON RES	
	R527	QRD161J-104	100K	1/6W	CARBON RES	
	R528	QRD161J-203	20K	1/6W	CARBON RES	
Δ	R529	QRZ0077-680	68	1/4W	FUSIBLE IE	
Δ	R530	QRZ0077-680	68	1/4W	FUSIBLE IE	
	R701	QRD161J-222	2.2K	1/6W	CARBON RES	
	R702	QRD161J-222	2.2K	1/6W	CARBON RES	
	R703	QRD161J-104	100K	1/6W	CARBON RES	
	R704	QRD161J-104	100K	1/6W	CARBON RES	
	R705	QRD161J-202	2K	1/6W	CARBON RES	
	R706	QRD161J-202	2K	1/6W	CARBON RES	
	R707	QRD161J-202	2K	1/6W	CARBON RES	
	R708	QRD161J-202	2K	1/6W	CARBON RES	
	R709	QRD167J-822	8.2K	1/6W	CARBON RES	
	R710	QRD167J-822	8.2K	1/6W	CARBON RES	
	R711	QRD167J-751	750	1/6W	CARBON RES	
	R712	QRD167J-751	750	1/6W	CARBON RES	
	R713	QRD161J-133Y	13K	1/6W	CARBON RES	
	R714	QRD161J-133Y	13K	1/6W	CARBON RES	
	R715	QRD161J-823	82K	1/6W	CARBON RES	
	R716	QRD161J-823	82K	1/6W	CARBON RES	
Δ	R717	QRD12CJ-153SX	15K	1/2W	UNF.CARBON	
Δ	R718	QRD12CJ-153SX	15K	1/2W	UNF.CARBON	
	R719	QRD161J-391	390	1/6W	CARBON RES	
	R720	QRD161J-391	390	1/6W	CARBON RES	
Δ	R721	QRD14CJ-151SX	150	1/4W	UNF.CARBON	
Δ	R722	QRD14CJ-151SX	150	1/4W	UNF.CARBON	
	R723	QRD167J-152	1.5K	1/6W	CARBON RES	
	R724	QRD167J-152	1.5K	1/6W	CARBON RES	
	R725	QRD161J-333	33K	1/6W	CARBON RES	
	R726	QRD161J-333	33K	1/6W	CARBON RES	
	R727	QRD161J-391	390	1/6W	CARBON RES	
	R728	QRD161J-391	390	1/6W	CARBON RES	
	R729	QRD161J-391	390	1/6W	CARBON RES	
	R730	QRD161J-391	390	1/6W	CARBON RES	
	R731	QRD161J-101	100	1/6W	CARBON RES	

Δ IS SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
Δ	R732	QRD161J-101	100	1/6W	CARBON RES	
Δ	R733	QRD14CJ-680SX	68	1/4W	UNF. CARBON	
Δ	R734	QRD14CJ-680SX	68	1/4W	UNF. CARBON	
Δ	R735	QRG022J-562A	5.6K	2W	OXIDE META	
Δ	R739	QRD167J-121	120	1/6W	CARBON RES	
Δ	R739	QRD167J-151	150	1/6W	CARBON RES	A
Δ	R739	QRD167J-121	120	1/6W	CARBON RES	U
Δ	R739	QRD167J-121	120	1/6W	CARBON RES	UT
Δ	R740	QRD167J-121	120	1/6W	CARBON RES	
Δ	R740	QRD167J-151	150	1/6W	CARBON RES	A
Δ	R740	QRD167J-121	120	1/6W	CARBON RES	U
Δ	R740	QRD167J-121	120	1/6W	CARBON RES	UT
Δ	R741	QRD167J-121	120	1/6W	CARBON RES	
Δ	R742	QRD167J-121	120	1/6W	CARBON RES	
Δ	R743	QRD161J-820	82	1/6W	CARBON RES	A
Δ	R744	QRD161J-820	82	1/6W	CARBON RES	A
Δ	R745	QRD161J-820	82	1/6W	CARBON RES	A
Δ	R746	QRD161J-820	82	1/6W	CARBON RES	A
Δ	R747	ERT-D2WHL202S	2K	1/4W	NEGATIVE T	A
Δ	R748	ERT-D2WHL202S	2K	1/4W	NEGATIVE T	A
Δ	R749	ERT-D2WHL202S	2K	1/4W	NEGATIVE T	A
Δ	R750	ERT-D2WHL202S	2K	1/4W	NEGATIVE T	A
Δ	R751	QRD167J-151	150	1/6W	CARBON RES	
Δ	R752	QRD167J-151	150	1/6W	CARBON RES	
Δ	R753	QRD167J-151	150	1/6W	CARBON RES	
Δ	R754	QRD167J-151	150	1/6W	CARBON RES	
Δ	R755	QRD167J-152	1.5K	1/6W	CARBON RES	
Δ	R756	QRD167J-152	1.5K	1/6W	CARBON RES	
Δ	R761	QRD161J-391	390	1/6W	CARBON RES	
Δ	R762	QRD161J-391	390	1/6W	CARBON RES	
Δ	R763	ERT-D2WHL202S	2K	1/4W	NEGATIVE T	
Δ	R764	ERT-D2WHL202S	2K	1/4W	NEGATIVE T	
Δ	R765	QRD14CJ-272S	2.7K	1/4W	UNF. CARBON	
Δ	R766	QRD14CJ-272S	2.7K	1/4W	UNF. CARBON	
Δ	R767	QRD14CJ-271S	270	1/4W	UNF. CARBON	
Δ	R768	QRD14CJ-271S	270	1/4W	UNF. CARBON	
Δ	R769	QRD14CJ-100SX	10	1/4W	UNF. CARBON	A
Δ	R769	QRD14CJ-101S	100	1/4W	UNF. CARBON	U
Δ	R769	QRD14CJ-101S	100	1/4W	UNF. CARBON	UT
Δ	R770	QRD14CJ-100SX	10	1/4W	UNF. CARBON	A
Δ	R770	QRD14CJ-101S	100	1/4W	UNF. CARBON	U
Δ	R770	QRD14CJ-101S	100	1/4W	UNF. CARBON	UT
Δ	R771	QRD14CJ-101S	100	1/4W	UNF. CARBON	A
Δ	R771	QRD14CJ-101S	100	1/4W	UNF. CARBON	U
Δ	R771	QRD14CJ-101S	100	1/4W	UNF. CARBON	UT
Δ	R772	QRD14CJ-100SX	10	1/4W	UNF. CARBON	A
Δ	R772	QRD14CJ-101S	100	1/4W	UNF. CARBON	U
Δ	R772	QRD14CJ-101S	100	1/4W	UNF. CARBON	UT
Δ	R773	ERF032K-R22	0.22	3W	CEM. RESIST	
Δ	R774	ERF032K-R22	0.22	3W	CEM. RESIST	
Δ	R775	QRD125J-470	47	1/2W	UNF. CARBON	
Δ	R776	QRD125J-470	47	1/2W	UNF. CARBON	
Δ	R777	QRG022J-100AM	10	2W	OXIDE META	
Δ	R778	QRG022J-100AM	10	2W	OXIDE META	
Δ	R779	QRD14CJ-100SX	10	1/4W	UNF. CARBON	
Δ	R780	QRD14CJ-100SX	10	1/4W	UNF. CARBON	
Δ	R781	QRD14CJ-100SX	10	1/4W	UNF. CARBON	
Δ	R782	QRD14CJ-100SX	10	1/4W	UNF. CARBON	
Δ	R783	QRD14CJ-100SX	10	1/4W	UNF. CARBON	
Δ	R784	QRD14CJ-100SX	10	1/4W	UNF. CARBON	
Δ	R785	QRD14CJ-100SX	10	1/4W	UNF. CARBON	
Δ	R786	QRD14CJ-100SX	10	1/4W	UNF. CARBON	
Δ	R791	QVPA601-501A	500		TRIMMER RE	
Δ	R792	QVPA601-501A	500		TRIMMER RE	
Δ	R799	ERF032K-R22	0.22	3W	CEM. RESIST	
Δ	R811	QRD14CJ-120SX	12	1/4W	UNF. CARBON	
Δ	R813	QRD14CJ-122SX	1.2K	1/4W	UNF. CARBON	
Δ	R819	QRD14CJ-100SX	10	1/4W	UNF. CARBON	
Δ	R822	QRD14CJ-272S	2.7K	1/4W	UNF. CARBON	
Δ	R823	QRD14CJ-220S	22	1/4W	UNF. CARBON	
Δ	R824	QRD14CJ-220S	22	1/4W	UNF. CARBON	
Δ	R825	QRD14CJ-332SX	3.3K	1/4W	UNF. CARBON	
Δ	R826	QRD14CJ-120SX	12	1/4W	UNF. CARBON	
Δ	R828	QRD14CJ-122SX	1.2K	1/4W	UNF. CARBON	
Δ	R829	QRD143J-472S	4.7K	1/4W	CARBON RES	
Δ	R831	QRD145J-150S	15	1/4W	UNF. CARBON	
Δ	R832	QRD12CJ-103S	10K	1/2W	UNF. CARBON	
Δ	R834	QRD14CJ-220S	22	1/4W	UNF. CARBON	
Δ	R838	QRD12CJ-2R2SX	2.2	1/2W	CARBON RES	
Δ	R843	QRD14CJ-4R7S	4.7	1/4W	UNF. CARBON	
Δ	R855	QRD12CJ-2R2SX	2.2	1/2W	CARBON RES	
Δ	R856	QRD12CJ-2R2SX	2.2	1/2W	CARBON RES	
Δ	R863	QRD161J-102	1K	1/6W	CARBON RES	
Δ	R864	QRD161J-102	1K	1/6W	CARBON RES	
Δ	R901	QRD161J-821	820	1/6W	CARBON RES	A
Δ	R901	QRD161J-681	680	1/6W	CARBON RES	U
Δ	R901	QRD161J-681	680	1/6W	CARBON RES	UT
Δ	R902	QRD161J-821	820	1/6W	CARBON RES	A
Δ	R902	QRD161J-681	680	1/6W	CARBON RES	U
Δ	R902	QRD161J-681	680	1/6W	CARBON RES	UT
Δ	R903	QRD167J-562	5.6K	1/6W	CARBON RES	
Δ	R904	QRD167J-562	5.6K	1/6W	CARBON RES	
Δ	R905	QRD161J-123	12K	1/6W	CARBON RES	
Δ	R906	QRD161J-123	12K	1/6W	CARBON RES	
Δ	R907	QRD161J-102	1K	1/6W	CARBON RES	

Δ IS SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
	R908	QRD161J-102	1K	1/6W	CARBON RES	
	R909	QRD161J-103	10K	1/6W	CARBON RES	
	R911	QRD167J-332	3.3K	1/6W	CARBON RES	
	R912	QRD161J-473	47K	1/6W	CARBON RES	
	R913	QRD161J-104	100K	1/6W	CARBON RES	
	R914	QRD161J-823	82K	1/6W	CARBON RES	
	R915	QRD161J-823	82K	1/6W	CARBON RES	
	R916	QRD161J-563	56K	1/6W	CARBON RES	
	R917	QRD161J-683	68K	1/6W	CARBON RES	
	R918	QRD161J-392	3.9K	1/6W	CARBON RES	
	R921	QRD161J-224	220K	1/6W	CARBON RES	
	R922	QRD167J-562	5.6K	1/6W	CARBON RES	
Δ	R924	QRG022J-821AM	820	2W	OXIDE META	A
Δ	R924	QRG022J-102AF	1K	2W	OXIDE META	U
Δ	R924	QRG022J-102AF	1K	2W	OXIDE META	UT
	R925	QRD167J-121	120	1/6W	CARBON RES	A
	R925	QRD161J-101	100	1/6W	CARBON RES	U
	R925	QRD161J-101	100	1/6W	CARBON RES	UT
	R926	QRD161J-101	100	1/6W	CARBON RES	A
	R926	QRD167J-151	150	1/6W	CARBON RES	U
	R926	QRD167J-151	150	1/6W	CARBON RES	UT
	R927	QRD161J-101	100	1/6W	CARBON RES	A
	R927	QRD167J-151	150	1/6W	CARBON RES	U
	R927	QRD167J-151	150	1/6W	CARBON RES	UT
Δ	R929	QRD14CJ-470SX	47	1/4W	UNF. CARBON	
	R935	QRD167J-562	5.6K	1/6W	CARBON RES	
	R936	QRD167J-822	8.2K	1/6W	CARBON RES	
	R938	QRD161J-103	10K	1/6W	CARBON RES	
Δ	R941	QRG022J-471A	470	2W	OXIDE META	
Δ	R942	QRG022J-471A	470	2W	OXIDE META	
	R951	QRD161J-333	33K	1/6W	CARBON RES	
	R952	QRD161J-333	33K	1/6W	CARBON RES	
	R953	QRD161J-333	33K	1/6W	CARBON RES	
	R956	QRD161J-391	390	1/6W	CARBON RES	
	R957	QRD167J-223	22K	1/6W	CARBON RES	

Δ IS SAFETY PARTS

Others

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
		EMW10462-004	PRINTED BOA			
		SBSG3008CC	TAPPING SCR			
	J481	QMS3501-021	PIN JACK			
	J901	QMS6022-V01	MICROPHONE			
	L011	EQL0001-R45	INDUCTOR			
	L051	EQL0001-R45	INDUCTOR			
	L701	EQL0001-1R0	INDUCTOR			
	L702	EQL0001-1R0	INDUCTOR			
	S001	QSP6002-E02J2	PUSH SWITCH	SPK		
	EP001	EMZ4002-001Z	EARTH PLATE			
	EP002	EMZ4002-001Z	EARTH PLATE			
	EP003	EMZ4002-001Z	EARTH PLATE			
	EP004	EMZ4002-001Z	EARTH PLATE			
	FW901	EWR33B-08SST	FLAT WIRE A 3PIN			
	FW903	EWR36B-45SST	FLAT WIRE A 6PIN			
	HS802	E70306-001	HEAT SINK			
	HS804	E70306-001	HEAT SINK			
	HS805	E70306-001	HEAT SINK			
	JB101	EMV5140-015	CONNECT TER	15PIN		
	PA051	EWS293-0135	SOCKET WIRE	3PIN		
	PA052	EWS268-A416	SOCKET WIRE	8PIN		
	PA808	VMC0178-003	CONNECT TER	3PIN		
	PA809	VMC0178-003	CONNECT TER	3PIN		
	PB052	VMC0075-008N	CONNECT TER	8PIN		
	PB053	EMV5109-003A	MALE CONNec	3PIN		
	PB302	EMV5125-014	MALE CONNec	14PIN		
	PB441	EMV7123-023	MALE CONNec	23PIN		
	PB442	EMV5125-006	CONNECT TER	6PIN		
	PB562	EMV5125-010	MALE CONNec	10PIN		
	PB601	EMV5125-016	CONNECT TER	16PIN		
	PB602	EMV5140-015	CONNECT TER	15PIN		
	PB805	EMV5125-012	CONNECT TER	12PIN		
	RY011	ESK7D24-2120	RELAY			
	RY901	ESK7D24-2120	RELAY			
	ST011	EMB90TV-601G	SPEAKER TER			
	ST901	EMB90TV-806A	SPEAKER TER			
	TP751	GMV5005-004K	PLUG ASSY	4PIN		

Δ IS SAFETY PARTS

Note (2)

PC Board Ass'y	Version	Designated Areas
ENH-253 	A	Australia
ENH-253 	U UT	Universal Type Taiwan

Transistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q341	2SD2144S(VW)	SI. TRANSIST ROHM	
	Q342	2SD2144S(VW)	SI. TRANSIST ROHM	
	Q453	2SD2144S(VW)	SI. TRANSIST ROHM	
	Q454	2SD2144S(VW)	SI. TRANSIST ROHM	
	Q455	DTA144ES	DIGITAL TRA ROHM	
	Q456	2SD2144S(VW)	SI. TRANSIST ROHM	
	Q457	2SD2144S(VW)	SI. TRANSIST ROHM	
	Q561	2SC458(C,D)	SI. TRANSIST HITACHI	
	Q562	2SC458(C,D)	SI. TRANSIST HITACHI	
	Q563	2SA933S(RS)	SI. TRANSIST	
	Q564	2SA933S(RS)	SI. TRANSIST	
	Q581	DTC114YS	DIGITAL TRA ROHM	
	Q601	2SD655(E,F)	SI. TRANSIST HITACHI	
	Q602	2SD655(E,F)	SI. TRANSIST HITACHI	
	Q603	DTC144ES	DIGITAL TRA ROHM	
	Q604	DTC144ES	DIGITAL TRA ROHM	
	Q605	DTA144ES	DIGITAL TRA ROHM	
	Q851	2SC2240(GR,BL)	SI. TRANSIST TOSHIBA	
	Q852	2SC2235(O,Y)	SI. TRANSIST TOSHIBA	
	Q853	DTC143TS	DIGITAL TRA ROHM	
	Q854	2SD1266	SI. TRANSIST MATSUSHITA	U
	Q854	2SD1266	SI. TRANSIST MATSUSHITA	UT
	Q855	2SA965(Y)	SI. TRANSIST TOSHIBA	

Δ : SAFETY PARTS

I.C.s

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC301	NJM4580DD	I.C.(MONO-AN DAINICHI	
	IC311	BA15218N	I.C.(MONO-AN ROHM	
	IC321	TC9274N-007	I.C.(CM) TOSHIBA	
	IC341	TC9176P	I.C.(DIGI-MO TOSHIBA	
	IC342	BA15218N	I.C.(MONO-AN ROHM	
	IC361	LB1639-CV	I.C.(DIGI-OT SANYO	
	IC561	NJM2246D	I.C.(MONO-AN DAINICHI	
	IC601	NJM2177L	I.C.(MONO-AN DAINICHI	
	IC602	MS0198P	I.C.(DIGI-MO MITSUBISHI	
	IC604	NJM78M05FA	I.C.(MONO-AN DAINICHI	
	IC605	NUU3715L	I.C.(MONO-AN DAINICHI	

Δ : SAFETY PARTS

Diodes

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	D275	1SS133	SI. DIODE ROHM	
	D276	1SS133	SI. DIODE ROHM	
	D360	1SR139-200	SI. DIODE ROHM	
	D401	1SS133	SI. DIODE ROHM	
	D649	MTZ6.2JC	ZENER DIODE ROHM	
Δ	D801	30D2FC	GE. DIODE NIHONINTER	
Δ	D802	30D2FC	GE. DIODE NIHONINTER	
Δ	D803	30D2FC	GE. DIODE NIHONINTER	
Δ	D804	30D2FC	GE. DIODE NIHONINTER	
	D855	MTZ12JC	ZENER DIODE ROHM	
	D855	MTZ12JC	ZENER DIODE ROHM	U
	D857	MTZ6.2JC	ZENER DIODE ROHM	UT
	D858	1SS133	SI. DIODE ROHM	
	D864	MTZ5.6JC	ZENER DIODE ROHM	
	D866	MTZ10JC	ZENER DIODE ROHM	
	D867	MTZ16JC	ZENER DIODE ROHM	
	D870	1SS133	SI. DIODE ROHM	
	D871	1SR139-200	SI. DIODE ROHM	
	D872	1SR139-200	SI. DIODE ROHM	
	D873	1SR139-200	SI. DIODE ROHM	
	D874	1SR139-200	SI. DIODE ROHM	

Δ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	C001	QCZ9019-472	4700PF 50V C.CAPACITO	
	C261	QCS31HJ-561Z	560PF 50V CER. CAPACI	
	C301	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C302	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C303	QCS31HJ-101Z	100PF 50V CER. CAPACI	

Δ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	C304	QCS31HJ-101Z	100PF 50V CER. CAPACI	
	C305	QFLB1HJ-182	1800PF 50V MYLAR CAPA	
	C306	QFLB1HJ-182	1800PF 50V MYLAR CAPA	
	C307	QFLB1HJ-682	6800PF 50V MYLAR CAPA	
	C308	QFLB1HJ-682	6800PF 50V MYLAR CAPA	
	C309	QCS31HJ-101Z	100PF 50V CER. CAPACI	
	C310	QCS31HJ-101Z	100PF 50V CER. CAPACI	
	C311	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C312	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C313	QETB1AM-107	100MF 10V AL E. CAPAC	
	C314	QETB1AM-107	100MF 10V AL E. CAPAC	
	C315	QETB1CM-476	47MF 16V AL E. CAPAC	
	C316	QETB1CM-476	47MF 16V AL E. CAPAC	
	C319	QCF21HP-223A	0.022MF 50V CER. CAPACI	
	C320	QCF21HP-223A	0.022MF 50V CER. CAPACI	
	C321	QETB1EM-226	22MF 25V AL E. CAPAC	
	C322	QETB1EM-226	22MF 25V AL E. CAPAC	
	C331	QCF21HP-223A	0.022MF 50V CER. CAPACI	
	C341	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C342	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C343	QETB1HM-105	1MF 50V AL E. CAPAC	
	C344	QETB1HM-105	1MF 50V AL E. CAPAC	
	C345	QETB1EM-106	10MF 25V AL E. CAPAC	
	C346	QETB1EM-106	10MF 25V AL E. CAPAC	
	C347	QCHB1EZ-223	0.022MF 25V CER. CAPACI	
	C348	QCHB1EZ-223	0.022MF 25V CER. CAPACI	
	C351	QETB1EM-226	22MF 25V AL E. CAPAC	
	C352	QETB1EM-226	22MF 25V AL E. CAPAC	
	C353	QCF21HP-223A	0.022MF 50V CER. CAPACI	
	C354	QCF21HP-223A	0.022MF 50V CER. CAPACI	
	C361	QETB1EM-106	10MF 25V AL E. CAPAC	
	C362	QETB1EM-106	10MF 25V AL E. CAPAC	
	C371	QCY21HK-331	330PF 50V CER. CAPACI	
	C372	QCY21HK-331	330PF 50V CER. CAPACI	
	C373	QETB1AM-107	100MF 10V AL E. CAPAC	
	C374	QCF31HP-473Z	0.047MF 50V CER. CAPACI	
	C375	QFLC1HJ-333ZM	0.033MF 50V MYLAR CAPA	
	C376	QFLC1HJ-333ZM	0.033MF 50V MYLAR CAPA	
	C377	QETB1HM-226E	22MF 50V E.CAPACITO	
	C378	QETB1AM-107	100MF 10V AL E. CAPAC	
	C453	QERS1HM-106	10MF 50V AL E. CAPAC	A
	C454	QERS1HM-106	10MF 50V AL E. CAPAC	
	C561	QETB1CM-477M	470MF 16V E.CAPACITO	
	C562	QETB1CM-477M	470MF 16V E.CAPACITO	
	C563	QCF21HP-223A	0.022MF 50V CER. CAPACI	
	C571	QETB0JM-108N	1000MF 6.3V E.CAPACITO	
	C572	QETB0JM-108N	1000MF 6.3V E.CAPACITO	
	C573	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C574	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C601	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C602	QFV81HJ-224	0.22MF 50V THIN FILM	
	C603	QFV81HJ-224	0.22MF 50V THIN FILM	
	C604	QFV81HJ-224	0.22MF 50V THIN FILM	
	C605	QFV81HJ-684	0.68MF 50V THIN FILM	
	C606	QFLC1HJ-562ZM	5600PF 50V MYLAR CAPA	
	C607	QFLC1HJ-472ZM	4700PF 50V METAL.MYLA	
	C608	QCB81HK-471Y	470PF 50V CER. CAPACI	
	C609	QETB1CM-227	220MF 16V AL E. CAPAC	
	C610	QFLC1HJ-473ZM	0.047MF 50V METAL.MYLA	
	C611	QFLC1HJ-562ZM	5600PF 50V MYLAR CAPA	
	C612	QETB1HM-106	10MF 50V E.CAPACITO	
	C613	QETB1HM-106	10MF 50V E.CAPACITO	
	C614	QETB1HM-106	10MF 50V E.CAPACITO	
	C615	QFV81HJ-224	0.22MF 50V THIN FILM	
	C616	QCF21HP-223A	0.022MF 50V CER. CAPACI	
	C617	QETB1HM-106	10MF 50V E.CAPACITO	
	C618	QETB1HM-106	10MF 50V E.CAPACITO	
	C619	QETB1HM-106	10MF 50V E.CAPACITO	
	C620	QETB1CM-226	22MF 16V E.CAPACITO	
	C621	QFN81HJ-472	4700PF 50V MYLAR CAPA	
	C622	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C623	QFV81HJ-224	0.22MF 50V THIN FILM	
	C624	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C625	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C626	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C627	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C628	QFLC1HJ-223ZM	0.022MF 50V METAL.MYLA	
	C629	QFLC1HJ-223ZM	0.022MF 50V METAL.MYLA	
	C630	QCB81HK-681Y	680PF 50V CER. CAPACI	
	C631	QFLC1HJ-473ZM	0.047MF 50V METAL.MYLA	
	C632	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C633	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C635	QETB1HM-106	10MF 50V E.CAPACITO	
	C636	QETB1HM-106	10MF 50V E.CAPACITO	
	C637	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C638	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C639	QFLC1HJ-473ZM	0.047MF 50V METAL.MYLA	
	C640	QCB81HK-681Y	680PF 50V CER. CAPACI	
	C641	QEB81EM-226Z	22MF 25V LLC E. CAPA	
	C642	QETB1EM-106	10MF 25V AL E. CAPAC	
	C643	QCF21HP-223A	0.022MF 50V CER. CAPACI	
	C644	QETB1CM-477M	470MF 16V E.CAPACITO	
	C649	QCB81HK-561Y	560PF 50V CER. CAPACI	
	C650	QCF21HP-223A	0.022MF 50V CER. CAPACI	
	C651	QETB1HM-105	1MF 50V AL E. CAPAC	

Δ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	C652	QFLC1HJ-332ZM	3300PF 50V METAL.MYLA	
	C653	QCGB1HK-821	820PF 50V CER.CAPACI	
	C654	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C655	QETB1CM-476	47MF 16V AL E.CAPAC	
	C656	QFV71HJ-474ZM	0.47MF 50V THIN FILM	
	C657	QFV71HJ-474ZM	0.47MF 50V THIN FILM	
	C658	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C659	QFLC1HJ-562ZM	5600PF 50V MYLAR CAPA	
	C660	QCGB1HK-561Y	560PF 50V CER.CAPACI	
	C661	QETB1HM-105	1MF 50V AL E.CAPAC	
	C662	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C663	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C664	QETB1CM-107	100MF 16V AL E.CAPAC	
	C665	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C666	QCZ0202-155	1.5MF 25V CER.RESIST	
	C670	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C671	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C801	EEW5616-688E	6800MF E.CAPACITO	A
	C801	EEW6318-688E	6800MF E.CAPACITO	U
	C801	EEW6318-688E	6800MF E.CAPACITO	UT
	C802	EEW5616-688E	6800MF E.CAPACITO	A
	C802	EEW6318-688E	6800MF E.CAPACITO	U
	C802	EEW6318-688E	6800MF E.CAPACITO	UT
	C805	QCE22HP-103A	0.01MF 500V CER.CAPACI	
	C806	QCE22HP-103A	0.01MF 500V CER.CAPACI	
	C807	QCE22HP-103A	0.01MF 500V CER.CAPACI	
	C810	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C850	QETB1CM-476	47MF 16V AL E.CAPAC	
	C851	QFN82AK-472	4700PF 100V METAL.MYLA	
	C852	QETB1EM-227	220MF 25V AL E.CAPAC	A
	C852	QETB1JM-227	220MF 63V AL E.CAPAC	U
	C852	QETB1JM-227	220MF 63V AL E.CAPAC	UT
	C854	QCF21HP-472	4700PF 50V CER.CAPACI	U
	C854	QCF21HP-472	4700PF 50V CER.CAPACI	UT
	C857	QFLC1HJ-473ZM	0.047MF 50V METAL.MYLA	
	C858	QFLC1HJ-473ZM	0.047MF 50V METAL.MYLA	
	C861	QCF21HP-472	4700PF 50V CER.CAPACI	
	C869	QETB1HM-476	47MF 50V E.CAPACITO	
	C870	QCF21HP-472	4700PF 50V CER.CAPACI	
	C871	QETB1EM-107	100MF 25V AL E.CAPAC	

Δ : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	R281	QRD161J-103	10K 1/6W CARBON RES	
	R282	QRD161J-512	5.1K 1/6W CARBON RES	
	R283	QRD161J-103	10K 1/6W CARBON RES	
	R284	QRD161J-512	5.1K 1/6W CARBON RES	
	R301	QRD161J-222	2.2K 1/6W CARBON RES	
	R302	QRD161J-222	2.2K 1/6W CARBON RES	
	R303	QRD161J-473	47K 1/6W CARBON RES	
	R304	QRD161J-473	47K 1/6W CARBON RES	
	R305	QRD161J-621	620 1/6W CARBON RES	
	R306	QRD161J-621	620 1/6W CARBON RES	
	R307	QRD161J-393	39K 1/6W CARBON RES	
	R308	QRD161J-393	39K 1/6W CARBON RES	
	R309	QRD161J-474	470K 1/6W CARBON RES	
	R310	QRD161J-474	470K 1/6W CARBON RES	
	R311	QRD161J-104	100K 1/6W CARBON RES	
	R312	QRD161J-104	100K 1/6W CARBON RES	
Δ	R313	QRD14CJ-391SX	390 1/4W UNF.CARBON	
Δ	R314	QRD14CJ-391SX	390 1/4W UNF.CARBON	
	R315	QRD161J-104	100K 1/6W CARBON RES	
	R316	QRD161J-104	100K 1/6W CARBON RES	
	R317	QRD161J-104	100K 1/6W CARBON RES	
	R318	QRD161J-104	100K 1/6W CARBON RES	
Δ	R321	QRZ0077-680	68 1/4W FUSIBLE RE	
Δ	R322	QRZ0077-680	68 1/4W FUSIBLE RE	
	R339	QRD161J-104	100K 1/6W CARBON RES	
	R340	QRD161J-104	100K 1/6W CARBON RES	
	R341	QRD161J-104	100K 1/6W CARBON RES	
	R342	QRD161J-104	100K 1/6W CARBON RES	
	R343	QRD161J-105	1M 1/6W CARBON RES	
	R344	QRD161J-105	1M 1/6W CARBON RES	
	R345	QRD161J-303Y	30K 1/6W CARBON RES	
	R346	QRD161J-303Y	30K 1/6W CARBON RES	
	R347	QRD161J-203	20K 1/6W CARBON RES	
	R348	QRD161J-103	10K 1/6W CARBON RES	
	R360	QVDC947-E15D	100K VARIABLE	
Δ	R361	QRZ0077-680	68 1/4W FUSIBLE RE	
Δ	R362	QRZ0077-680	68 1/4W FUSIBLE RE	
Δ	R363	QRZ0077-680	68 1/4W FUSIBLE RE	
Δ	R364	QRZ0077-680	68 1/4W FUSIBLE RE	
	R371	QRD167J-223	22K 1/6W CARBON RES	
	R372	QRD167J-223	22K 1/6W CARBON RES	
	R373	QRD167J-223	22K 1/6W CARBON RES	
	R374	QRD167J-223	22K 1/6W CARBON RES	
	R375	QRD161J-222	2.2K 1/6W CARBON RES	
	R376	QRD161J-222	2.2K 1/6W CARBON RES	
	R377	QRD161J-202	2K 1/6W CARBON RES	
	R381	QRD161J-471	470 1/6W CARBON RES	
	R382	QRD161J-471	470 1/6W CARBON RES	
	R383	QRD161J-471	470 1/6W CARBON RES	
	R384	QRD161J-471	470 1/6W CARBON RES	

Δ : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	R385	QRD161J-471	470 1/6W CARBON RES	
	R386	QRD161J-471	470 1/6W CARBON RES	
	R387	QRD161J-471	470 1/6W CARBON RES	
	R388	QRD161J-471	470 1/6W CARBON RES	
	R389	QRD161J-471	470 1/6W CARBON RES	
	R390	QRD161J-471	470 1/6W CARBON RES	
	R391	QRD161J-471	470 1/6W CARBON RES	
	R392	QRD161J-471	470 1/6W CARBON RES	
	R393	QRD161J-471	470 1/6W CARBON RES	
	R394	QRD161J-471	470 1/6W CARBON RES	
	R395	QRD161J-471	470 1/6W CARBON RES	
	R396	QRD161J-471	470 1/6W CARBON RES	
	R453	QRD167J-152	1.5K 1/6W CARBON RES	
	R454	QRD167J-152	1.5K 1/6W CARBON RES	
	R455	QRD161J-103	10K 1/6W CARBON RES	
	R456	QRD161J-103	10K 1/6W CARBON RES	
	R457	QRD161J-103	10K 1/6W CARBON RES	
	R458	QRD161J-103	10K 1/6W CARBON RES	
	R459	QRD167J-152	1.5K 1/6W CARBON RES	
	R460	QRD167J-152	1.5K 1/6W CARBON RES	
	R561	QRD161J-750	75 1/6W CARBON RES	
	R562	QRD167J-680	68 1/6W CARBON RES	
	R563	QRD161J-750	75 1/6W CARBON RES	
	R564	QRD161J-750	75 1/6W CARBON RES	
	R565	QRD161J-473	47K 1/6W CARBON RES	
	R566	QRD161J-473	47K 1/6W CARBON RES	
	R567	QRD161J-331	330 1/6W CARBON RES	
	R568	QRD161J-331	330 1/6W CARBON RES	
	R569	QRD167J-152	1.5K 1/6W CARBON RES	
	R570	QRD167J-152	1.5K 1/6W CARBON RES	
	R571	QRD167J-151	150 1/6W CARBON RES	
	R572	QRD167J-151	150 1/6W CARBON RES	
	R573	QRD167J-152	1.5K 1/6W CARBON RES	
	R575	QRD161J-271	270 1/6W CARBON RES	
	R576	QRD161J-271	270 1/6W CARBON RES	
	R581	QRD161J-473	47K 1/6W CARBON RES	
	R583	QRD167J-152	1.5K 1/6W CARBON RES	
	R601	QRD167J-334	330K 1/6W CARBON RES	
	R602	QRD167J-822	8.2K 1/6W CARBON RES	
	R603	QRD167J-822	8.2K 1/6W CARBON RES	
	R604	QRD167J-822	8.2K 1/6W CARBON RES	
	R605	QRD167J-153	15K 1/6W CARBON RES	
	R606	QRD161J-104	100K 1/6W CARBON RES	
	R607	QRD161J-104	100K 1/6W CARBON RES	
	R608	QRD161J-752	7.5K 1/6W CARBON RES	
	R609	QRD167J-153	15K 1/6W CARBON RES	
	R610	QRD161J-473	47K 1/6W CARBON RES	
	R611	QRD167J-223	22K 1/6W CARBON RES	
	R612	QRD167J-223	22K 1/6W CARBON RES	
	R613	QRD161J-473	47K 1/6W CARBON RES	
Δ	R614	QRZ0077-680	68 1/4W FUSIBLE RE	
	R615	QRD167J-153	15K 1/6W CARBON RES	
	R616	QRD161J-752	7.5K 1/6W CARBON RES	
	R617	QRD161J-475	4.7M 1/6W CARBON RES	
	R621	QRD161J-104	100K 1/6W CARBON RES	
	R631	QRD161J-392	3.9K 1/6W CARBON RES	
	R632	QRD167J-562	5.6K 1/6W CARBON RES	
	R633	QRD167J-223	22K 1/6W CARBON RES	
	R634	QRD161J-473	47K 1/6W CARBON RES	
	R635	QRD167J-223	22K 1/6W CARBON RES	
	R636	QRD161J-473	47K 1/6W CARBON RES	
	R641	QRD161J-103	10K 1/6W CARBON RES	
	R642	QRD161J-103	10K 1/6W CARBON RES	
	R643	QRD161J-103	10K 1/6W CARBON RES	
	R644	QRD161J-103	10K 1/6W CARBON RES	
	R650	QRD167J-822	8.2K 1/6W CARBON RES	
	R651	QRD161J-273	27K 1/6W CARBON RES	
	R652	QRD167J-153	15K 1/6W CARBON RES	
	R653	QRD167J-153	15K 1/6W CARBON RES	
	R654	QRD161J-103	10K 1/6W CARBON RES	
	R655	QRD167J-153	15K 1/6W CARBON RES	
	R656	QRD161J-103	10K 1/6W CARBON RES	
	R657	QRD167J-153	15K 1/6W CARBON RES	
	R658	QRD161J-105	1M 1/6W CARBON RES	
Δ	R659	QRZ0077-680	68 1/4W FUSIBLE RE	
	R663	QRD161J-222	2.2K 1/6W CARBON RES	
Δ	R805	QRD14CJ-822S	8.2K 1/4W UNF.CARBON	
Δ	R806	QRD14CJ-391SX	390 1/4W UNF.CARBON	
	R841	QRD161J-104	100K 1/6W CARBON RES	
	R842	QRD161J-104	100K 1/6W CARBON RES	
	R855	QRD167J-200	20 1/6W CARBON RES	A
Δ	R860	QRD14CJ-100SX	10 1/4W UNF.CARBON	A
Δ	R861	QRZ0077-220X	22 1/4W FUSIBLE RE	A
Δ	R861	QRZ0076-3R3	3.3 1/4W FUSIBLE RE	U
Δ	R861	QRZ0076-3R3	3.3 1/4W FUSIBLE RE	UT
Δ	R862	QRV144F-1502	15K 1/4W CONST.META	U
Δ	R862	QRV144F-1502	15K 1/4W CONST.META	UT
Δ	R863	QRV144F-9100	1/4W M.F.RESIST	U
	R863	QRD161J-821	820 1/6W CARBON RES	U
	R863	QRD161J-821	820 1/6W CARBON RES	UT
Δ	R864	QRG012J-332AM	3.3K 1W OXIDE META	U
Δ	R864	QRG012J-332AM	3.3K 1W OXIDE META	UT
Δ	R871	QRX022J-R22AM	0.22 2W METAL FILM	A
Δ	R871	QRX022J-R22AM	2.2 2W METAL FILM	U
Δ	R871	QRX022J-R22AM	2.2 2W METAL FILM	UT

Δ : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
Δ	R872	QRX022J-R22AM	0.22 2W METAL FILM	A
Δ	R872	QRX022J-2R2AM	2.2 2W METAL FILM	U
Δ	R872	QRX022J-2R2AM	2.2 2W METAL FILM	UT
Δ	R882	QRD14CJ-220S	22 1/4W UNF. CARBON	
	R937	QRD161J-104	100K 1/6W CARBON RES	
	R997	QRD161J-103	10K 1/6W CARBON RES	U
	R997	QRD161J-103	10K 1/6W CARBON RES	UT
	R998	QRD161J-103	10K 1/6W CARBON RES	U
	R998	QRD161J-103	10K 1/6W CARBON RES	UT
	R999	QRD161J-103	10K 1/6W CARBON RES	U
	R999	QRD161J-103	10K 1/6W CARBON RES	UT

Δ SAFETY PARTS

Others

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	PB804	EMV5125-012	CONNECT TER 12PIN	
	PB808	VMC0177-003	CONNECT TER 3PIN	
	PB809	VMC0177-003	CONNECT TER 3PIN	
	PW001	EWTO11-098	TERMINAL WI	A
Δ	RY001	ESK1D12-118J1	RELAY	
	TA001	EMZ4001-001	TAB	
	TA002	EMZ4001-001	TAB	
Δ	VS001	QSR0085-018	SELECT SWIT	U
Δ	VS001	QSR0085-018	SELECT SWIT	UT
	XT651	ECXP3R3-001ZA	CRYSTAL	

Δ SAFETY PARTS

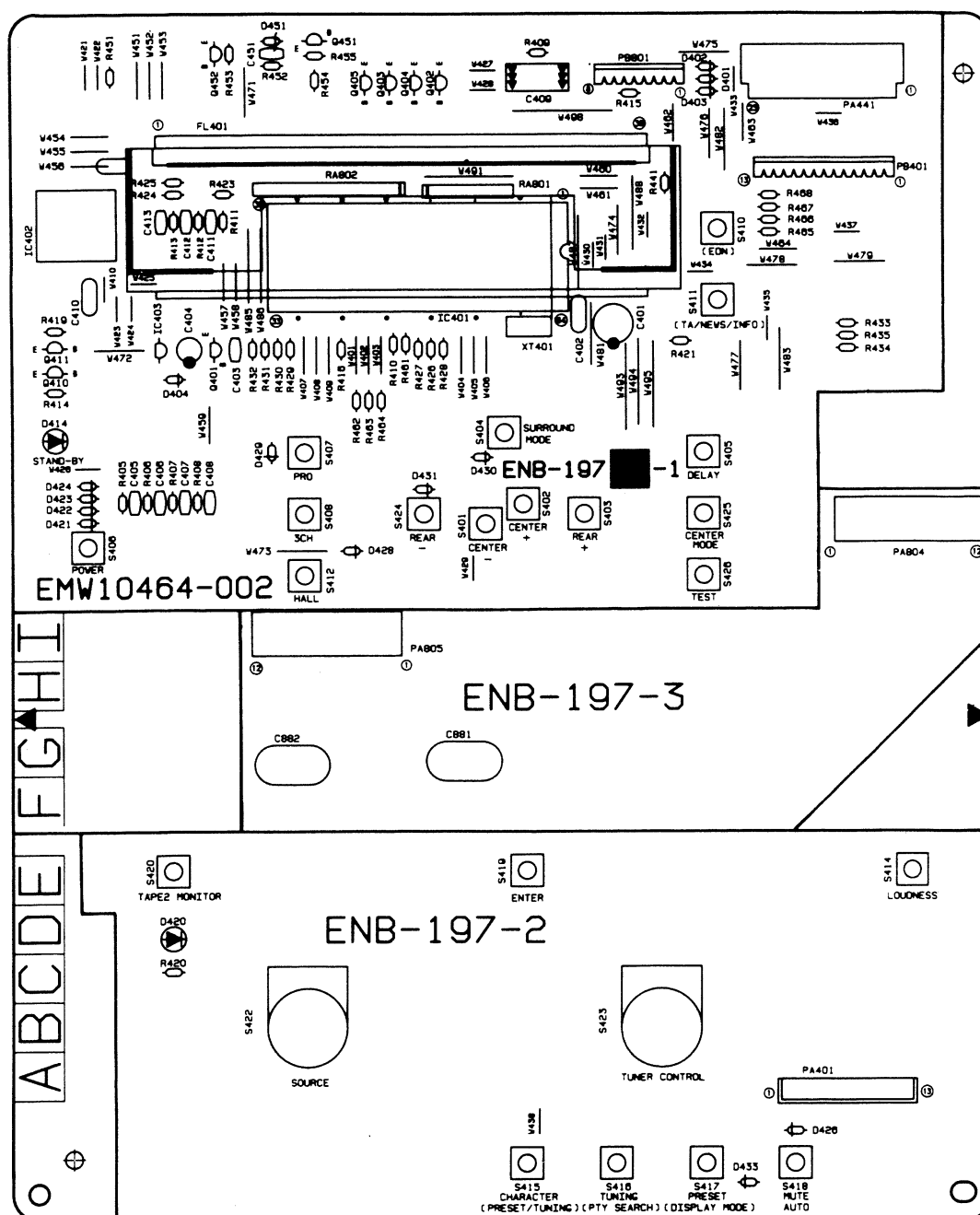
Others

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMW10463-006	CIR. BOARD	
		E67132-T2R0	FUSE LABEL	A
		E67132-T3R15	FUSE LABEL	A
		QWE690-08RR	VINYL WIRE	A
		QWE693-08RR	VINYL WIRE	A
		QWE692-08RR	VINYL WIRE	A
		QWE881-16RR	VINYL WIRE	A
		QWE888-20RR	VINYL WIRE	A
		E70945-H40B	HEAT SINK	U
		SBST3008CC	TAPPING SCR	U
		QWE691-10RR	WIRE	U
		QWE696-10RR	WIRE	U
		QWE694-10RR	WIRE	U
		QWE880-16RR	VINYL WIRE	U
		QWE881-12RR	VINYL WIRE	U
		QWE882-14RR	VINYL WIRE	U
		QWE883-15RR	VINYL WIRE	U
		QWE884-12RR	VINYL WIRE	U
		QWE886-20RR	VINYL WIRE	U
		QWE888-14RR	PIN WIRE	U
		E70945-H40B	HEAT SINK	UT
		SBST3008CC	TAPPING SCR	UT
		QWE691-10RR	WIRE	UT
		QWE696-10RR	WIRE	UT
		QWE694-10RR	WIRE	UT
		QWE880-16RR	VINYL WIRE	UT
		QWE881-12RR	VINYL WIRE	UT
		QWE882-14RR	VINYL WIRE	UT
		QWE883-15RR	VINYL WIRE	UT
		QWE884-12RR	VINYL WIRE	UT
		QWE886-20RR	VINYL WIRE	UT
		QWE888-14RR	PIN WIRE	UT
	J001	EMV5137-002	CONNECT TER 2PIN	U
	J001	EMV5137-002	CONNECT TER 2PIN	UT
	J002	EMV5137-002	CONNECT TER 2PIN	A
	J300	EMN00TV-422AJ2	PIN JACK 4PIN	
	J301	EMN00TV-615AJ2	PIN JACK 6PIN	
	J302	EMN00TV-422AJ2	PIN JACK 4PIN	
	J303	EMN00TV-422AJ2	PIN JACK 4PIN	
	J561	EMN00YV-406AJ1	PIN JACK 4PIN	
Δ	T002	ETP1000-41EA	POWER TRASN	A
Δ	T002	ETP1000-41ZB	POWER TRASN	U
Δ	T002	ETP1000-41ZB	POWER TRASN	UT
Δ	AC001	QMC002-E02S	AC OUTLET	U
Δ	AC001	QMC002-E02S	AC OUTLET	UT
	EP	EMZ4002-001Z	EARTH PLATE	
	EP001	EMZ4002-001Z	EARTH PLATE	A
	FC101	VMZ0087-001Z	FUSE HOLDER	A
	FC102	VMZ0087-001Z	FUSE HOLDER	A
	FC103	VMZ0087-001Z	FUSE HOLDER	
	FC104	VMZ0087-001Z	FUSE HOLDER	
	FC801	VMZ0087-001Z	FUSE HOLDER	
	FC802	VMZ0087-001Z	FUSE HOLDER	
	FC803	VMZ0087-001Z	FUSE HOLDER	
	FC804	VMZ0087-001Z	FUSE HOLDER	
	FW802	EWR36B-08SST	FLAT WIRE A 6PIN	A
	FW802	EWR36B-10SST	FLAT WIRE A 6PIN	U
	FW802	EWR36B-10SST	FLAT WIRE A 6PIN	UT
	PA053	EWS293-0133	SOCKET WIRE 3PIN	
	PA302	EMV7125-014R	MALE CONNec 14PIN	
	PA561	EMV7125-010R	MALE CONNec 10PIN	
	PA601	EMV7125-016R	CONNECT TER 16PIN	
	PA602	EMV7140-L15R	CONNECT TER 15PIN	
	PA806	VMC0075-008N	CONNECT TER 8PIN	
	PB051	EMV5109-003A	MALE CONNec 3PIN	

Δ SAFETY PARTS

■ ENB-197 □ FL Display PC Board Assy

Note: ENB-197 □ varies according to the areas employed. See note (3) when placing an order.



Note (3)

PC Board Ass'y	Version	Designated Areas
ENB-197 B	A	Australia
ENB-197 C	U UT	Universal Type Taiwan

Transistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q401	DTC114YS	DIGITAL TRA ROHM	
	Q402	DTC114YS	DIGITAL TRA ROHM	
	Q403	DTC114YS	DIGITAL TRA ROHM	
	Q404	DTC114YS	DIGITAL TRA ROHM	
	Q405	DTC114YS	DIGITAL TRA ROHM	
	Q410	DTC114YS	DIGITAL TRA ROHM	
	Q411	DTC114YS	DIGITAL TRA ROHM	
	Q451	2SC1740(R,S)	SI.TRANSIST ROHM	
	Q452	2SC1740(R,S)	SI.TRANSIST ROHM	

Δ ISIAFETIYI PARTS

I.C.s

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC401	MN171602JYN	I.C.	
	IC402	SPS-420-1	INFRARED DE SANYO	
	IC403	MN1281(P,Q)	I.C.(DIGI-MO MATSUSHITA	

Δ ISIAFETIYI PARTS

Diodes

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	D401	1SS133	SI.DIODE ROHM	
	D402	1SS133	SI.DIODE ROHM	
	D403	1SS133	SI.DIODE ROHM	
	D404	1SS133	SI.DIODE ROHM	
	D414	SLR-54VC50F124	L.E.D. ROHM	
	D420	SLR-34VC3F	L.E.D. ROHM	
	D421	1SS133	SI.DIODE ROHM	U
	D421	1SS133	SI.DIODE ROHM	A
	D422	1SS133	SI.DIODE ROHM	A
	D423	1SS133	SI.DIODE ROHM	
	D426	1SS133	SI.DIODE ROHM	
	D429	1SS133	SI.DIODE ROHM	
	D430	1SS133	SI.DIODE ROHM	
	D431	1SS133	SI.DIODE ROHM	
	D433	1SS133	SI.DIODE ROHM	
	D451	MTZ7.5JC	ZENER DIODE ROHM	

Δ ISIAFETIYI PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	C401	QE61AM-227ZM	220MF 10V AL E.CAPAC	
	C402	QCZ0202-155	1.5MF 25V CER.RESIST	
	C403	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C404	QEK51HM-225GE	2.2MF 50V AL E.CAPAC	
	C409	QEAD0HZ-479ZB	47000MF E.CAPACITO	
	C411	QCGB1HK-102	1000PF 50V CER.CAPACI	
	C412	QCGB1HK-102	1000PF 50V CER.CAPACI	
	C413	QCGB1HK-102	1000PF 50V CER.CAPACI	
	C451	QCB81HK-331Y	330PF 50V CER.CAPACI	

Δ ISIAFETIYI PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	R405	QRD161J-104	100K 1/6W CARBON RES	
	R406	QRD161J-104	100K 1/6W CARBON RES	
	R407	QRD161J-104	100K 1/6W CARBON RES	
	R408	QRD161J-104	100K 1/6W CARBON RES	
	R409	QRD161J-331	330 1/6W CARBON RES	
	R410	QRD167J-223	22K 1/6W CARBON RES	
	R411	QRD161J-104	100K 1/6W CARBON RES	
	R412	QRD161J-104	100K 1/6W CARBON RES	
	R413	QRD161J-104	100K 1/6W CARBON RES	
	R414	QRD161J-221	220 1/6W CARBON RES	

Δ ISIAFETIYI PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	R415	QRD161J-100	10 1/6W CARBON RES	
	R416	QRD161J-472	4.7K 1/6W CARBON RES	
	R419	QRD161J-103	10K 1/6W CARBON RES	
	R420	QRD161J-221	220 1/6W CARBON RES	
	R421	QRD161J-471	470 1/6W CARBON RES	
	R423	QRD161J-221	220 1/6W CARBON RES	
	R424	QRD161J-471	470 1/6W CARBON RES	
	R425	QRD161J-471	470 1/6W CARBON RES	
	R426	QRD161J-471	470 1/6W CARBON RES	
	R427	QRD161J-471	470 1/6W CARBON RES	
	R428	QRD161J-471	470 1/6W CARBON RES	
	R429	QRD161J-471	470 1/6W CARBON RES	
	R430	QRD161J-471	470 1/6W CARBON RES	
	R431	QRD161J-471	470 1/6W CARBON RES	
	R432	QRD161J-471	470 1/6W CARBON RES	
	R433	QRD161J-471	470 1/6W CARBON RES	
	R434	QRD161J-471	470 1/6W CARBON RES	
	R435	QRD161J-471	470 1/6W CARBON RES	
	R451	QRD161J-103	10K 1/6W CARBON RES	
	R452	QRD161J-473	47K 1/6W CARBON RES	
	R453	QRD167J-223	22K 1/6W CARBON RES	
	R454	QRD161J-471	470 1/6W CARBON RES	
	R455	QRD161J-103	10K 1/6W CARBON RES	
	R465	QRD161J-103	10K 1/6W CARBON RES	
	R466	QRD161J-103	10K 1/6W CARBON RES	
	R467	QRD161J-103	10K 1/6W CARBON RES	
	R468	QRD161J-103	10K 1/6W CARBON RES	
	RA801	QRB099J-104	100K 1/10W RESISTOR	
	RA802	QRB169J-104	100K 1/10W RESISTOR A	

Δ ISIAFETIYI PARTS

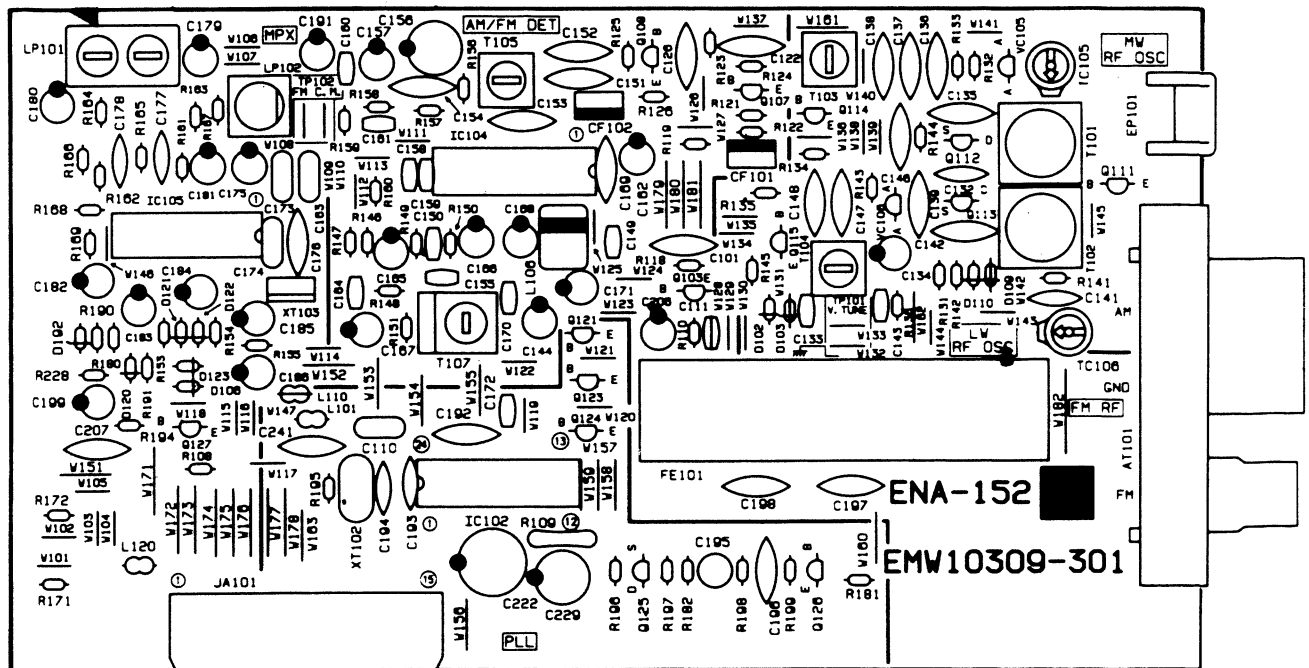
Others

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	S401	EMW10464-003	PRINTED BOA	
	S402	ESP0001-023M	TACT SWITCH CENTER-	
	S403	ESP0001-023M	TACT SWITCH CENTER +	
	S404	ESP0001-023M	TACT SWITCH REAR +	
	S405	ESP0001-023M	TACT SWITCH SURROUND	
	S406	ESP0001-023M	TACT SWITCH DELAY	
	S407	ESP0001-023M	TACT SWITCH POWER	
	S408	ESP0001-023M	TACT SWITCH PRO LOGIC	
	S412	ESP0001-023M	TACT SWITCH 3CH LOGIC	
	S414	ESP0001-023M	TACT SWITCH HALL	
	S415	ESP0001-023M	TACT SWITCH LOUDNESS	
	S416	ESP0001-023M	TACT SWITCH PRESET/TUNING	
	S417	ESP0001-023M	TACT SWITCH PTY SEARCH	
	S418	ESP0001-023M	TACT SWITCH DISPLAY MODE	
	S419	ESP0001-023M	TACT SWITCH FM MODE	
	S420	ESP0001-023M	TACT SWITCH ENTER	
	S422	QJSJ4002-E01	TACT SWITCH TAPE 2	
	S423	QJSJ4002-E01	SOURCE (JOG SW)	
	S424	ESP0001-023M	TACT SWITCH TUNER CONTROL (JOG SW)	
	S425	ESP0001-023M	TACT SWITCH REAR-	
	S426	ESP0001-023M	TACT SWITCH CENTER MODE	
	FH001	E309106-001SM	TACT SWITCH TEST	
	FL401	ELU0001-183	FL HOLDER	
	FS001	E3400-444	FLUORESCENT	
	FS002	E3400-444	FELT SPACER	
	PA401	EMV5109-013A	FELT SPACER	
	PA441	EMV7123-023R	CONNECT TER 13PIN	
	PA804	EMV7125-012R	MALE CONNEX 23PIN	
	PA805	EMV7125-012R	CONNECT TER 12PIN	
	PB401	EWS26D-A413	CONNECT TER 12PIN	
	PB801	EWS268-A416	SOCKET WIRE 13PIN	
	XT401	ECXP6R0-001ZA	SOCKET WIRE 16PIN	
			CRYSTAL	

Δ ISIAFETIYI PARTS

■ ENA-152 □ Tuner PC Board Assy

Note: ENA-152 □ varies according to the areas employed. See note (4) when placing an order.



Note (4)

PC Board Ass'y	Version	Designated Areas
ENA-152 ☐	A	Australia
ENA-152 ☐	U	Universal Type
ENA-152 ☐	UT	Taiwan

Transistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q103	2SC461	SI. TRANSIST	
	Q107	2SC535	SI. TRANSIST HITACHI	
	Q108	2SC461	SI. TRANSIST	
	Q112	2SK301(P,Q)	F.E.T. MATSUSHITA	
	Q123	DTA144ES	DIGITAL TRA ROHM	
	Q124	DTA144ES	DIGITAL TRA ROHM	
	Q125	2SK301(P,Q)	F.E.T. MATSUSHITA	
	Q126	2SC458(C,D)	SI. TRANSIST HITACHI	
	Q127	DTC144ES	DIGITAL TRA ROHM	

Δ DISAPPEARING PARTS

I.C.s

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC102	LC7218	I.C.(DIGI-MO)	
	IC104	LA1266A	I.C.(MONO-AN SANYO)	
	IC105	LA3401	I.C.(MONO-AN SANYO)	

Δ DISAPPEARING PARTS

Diodes

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	D106	1SS119	SI. DIODE	
	D120	1SS119	SI. DIODE	
	D121	1SS119	SI. DIODE	
	D122	1SS119	SI. DIODE	
	D123	1SS119	SI. DIODE	
	D192	MTZ5.1JC	ZENER DIODE ROHM	
	VC105	SVC342(L)	VARI-CAPA D SANYO	

Δ DISAPPEARING PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	C101	QCF21HP-223A	0.022MF 50V CER.CAPA:I	
	C110	QCZ0202-155	1.5MF 25V CER.RESIST	
	C122	QCF21HP-223A	0.022MF 50V CER.CAPA:I	
	C126	QCF21HP-223A	0.022MF 50V CER.CAPA:I	
	C132	QCS31HJ-561Z	560PF 50V CER.CAPA:I	
	C133	QCHB1EZ-223	0.022MF 25V CER.CAPA:I	
	C134	QETB1EM-106	10MF 25V AL E.CAPIC	
	C135	QCC11EM-223V	0.022MF 25V CER.CAPA:I	
	C136	QCT25CH-180Z	18PF 50V CER.CAPA:I	
	C137	QCT26CH-221	220PF 50V CER.CAPA:I	
	C138	QCT26CH-241	240PF 50V CER.CAPA:I	
	C149	QCHB1EZ-223	0.022MF 25V CER.CAPA:I	
	C150	QCHB1EZ-223	0.022MF 25V CER.CAPA:I	
	C151	QCF21HP-223A	0.022MF 50V CER.CAPA:I	
	C152	QCF21HP-223A	0.022MF 50V CER.CAPA:I	
	C153	QCC11EM-223V	0.022MF 25V CER.CAPA:I	
	C154	QCF21HP-223A	0.022MF 50V CER.CAPA:I	
	C155	QCHB1EZ-223	0.022MF 25V CER.CAPA:I	
	C156	QETB1CM-227	220MF 16V AL E.CAPIC	
	C157	QETB1HM-474	0.47MF 50V ELECTRO	
	C158	QCB81HK-101Y	100PF 50V CER.CAPA:I	
	C159	QCB81HK-101Y	100PF 50V CER.CAPA:I	
	C160	QCB81HK-221Y	220PF 50V CER.CAPA:I	
	C161	QCHB1EZ-223	0.022MF 25V CER.CAPA:I	
	C162	QETB1EM-106	10MF 25V AL E.CAPIC	
	C163	QFLC1HJ-102ZM	1000PF 50V MYLAR CAPA	
	C164	QCHB1EZ-223	0.022MF 25V CER.CAPA:I	
	C165	QETB1HM-474	0.47MF 50V ELECTRO	
	C166	QETB1HM-225	2.2MF 50V AL E.CAPIC	
	C167	QETB1HM-225	2.2MF 50V AL E.CAPIC	
	C168	QETB1HM-475E	0.47MF 50V E.CAPACIO	
	C169	QCF21HP-223A	0.022MF 50V CER.CAPA:I	
	C170	QCHB1EZ-223	0.022MF 25V CER.CAPA:I	
	C171	QETB1EM-106	10MF 25V AL E.CAPIC	
	C172	QCVB1CM-103Y	0.01MF 16V CER.CAPA:I	
	C173	QFLC1HJ-223ZM	0.022MF 50V METAL.MYA	A
	C173	QFLC1HJ-393ZM	0.039MF 50V METAL.MYA	U
	C173	QFLC1HJ-393ZM	0.039MF 50V METAL.MYA	UT
	C174	QFLC1HJ-473ZM	0.047MF 50V METAL.MYA	
	C175	QETB1EM-106	10MF 25V AL E.CAPIC	
	C176	QCY31HK-102Z	1000PF 50V CER.CAPA:I	A
	C177	QCS31HJ-561Z	560PF 50V CER.CAPA:I	U
	C177	QCS31HJ-821Z	820PF 50V CER.CAPA:I	UT
	C177	QCS31HJ-821Z	820PF 50V CER.CAPA:I	A
	C178	QCS31HJ-561Z	560PF 50V CER.CAPA:I	U
	C178	QCS31HJ-821Z	820PF 50V CER.CAPA:I	UT
	C178	QCS31HJ-821Z	820PF 50V CER.CAPA:I	
	C179	QETB1HM-225	2.2MF 50V AL E.CAPIC	
	C180	QETB1HM-225	2.2MF 50V AL E.CAPIC	
	C181	QETB1EM-106	10MF 25V AL E.CAPIC	

Δ DISAPPEARING PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	C182	QETB1HM-225	2.2MF 50V AL E.CAPAC	
	C183	QETB1HM-105	1MF 50V AL E.CAPAC	
	C184	QETB1HM-105	1MF 50V AL E.CAPAC	
	C185	QETB1HM-225	2.2MF 50V AL E.CAPAC	
	C186	QETB1HM-474	0.47MF 50V ELECTRO	
	C191	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C192	QCC31EM-473ZV	0.047MF 25V CER.CAPACI	
	C193	QCS21HJ-180A	18PF 50V CER.CAPACI	
	C194	QCS21HJ-180A	18PF 50V CER.CAPACI	
	C195	QENB1HM-474	0.47MF 50V NP E.CAPAC	
	C196	QCY31HK-102Z	1000PF 50V CER.CAPACI	
	C197	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C198	QCF31HP-103Z	0.01MF 50V CER.CAPACI	
	C199	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C207	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C222	QETB1CM-477M	470MF 16V E.CAPACITO	
	C229	QETB1CM-227	220MF 16V AL E.CAPAC	
	C241	QCF21HP-223A	0.022MF 50V CER.CAPACI	

Δ IS/A/F/E/T/Y/ I/PART/S

Others

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMW10309-301A	PRINTED BOA	
		E309022-002SM	SHIELD BRAC	
	L101	EQL4007-1R0	INDUCTOR	
	L106	EQL3001-102K	INDUCTOR	
	L120	EQL4007-1R0	INDUCTOR	
	T101	EQR1111-014	RF COIL	
	T103	EQR1207-017	RF COIL	
	T105	EQT2140-017	I.F. TRANSFO	
	T107	ECB1560-010	CERAMIC FIL	
	AT101	EMB41YV-301K	ANTENNA TER	
	CF101	ECB2123-006R	CERAMIC FIL	
	CF102	ECB2123-006R	CERAMIC FIL	
	EP101	E70225-001	EARTH PLATE	
	EP102	E70225-001	EARTH PLATE	
	FE101	EAF2203-004	FRONT END	
	JA101	EMV7140-L15R	CONNECT TER 15PIN	
	LP101	EQF0101-002	LOWPASS FIL	
	TC105	ENZ1003-006	TRIMMER CAP	
	XT102	ECX0007-200KC	CRYSTAL	
	XT103	ECX0000-456KR	CERAMIC RES	

Δ IS/A/F/E/T/Y/ I/PART/S

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	R108	QRD161J-103	10K 1/6W CARBON RES	
	R109	QRZ0077-680	68 1/4W FUSIBLE RE	
	R118	QRD167J-332	3.3K 1/6W CARBON RES	
	R119	QRD161J-221	220 1/6W CARBON RES	
	R121	QRD161J-391	390 1/6W CARBON RES	
	R122	QRD167J-272	2.7K 1/6W CARBON RES	
	R123	QRD161J-102	1K 1/6W CARBON RES	
	R124	QRD161J-681	680 1/6W CARBON RES	
	R125	QRD167J-332	3.3K 1/6W CARBON RES	
	R126	QRD161J-221	220 1/6W CARBON RES	
	R131	QRD161J-331	330 1/6W CARBON RES	
	R132	QRD161J-103	10K 1/6W CARBON RES	
	R133	QRD161J-473	47K 1/6W CARBON RES	
	R135	QRD161J-470	47 1/6W CARBON RES	
	R136	QRD161J-103	10K 1/6W CARBON RES	
	R146	QRD167J-560	56 1/6W CARBON RES	
	R147	QRD161J-103	10K 1/6W CARBON RES	
	R148	QRD161J-103	10K 1/6W CARBON RES	
	R149	QRD167J-223	22K 1/6W CARBON RES	
	R150	QRD161J-103	10K 1/6W CARBON RES	
	R151	QRD161J-222	2.2K 1/6W CARBON RES	
	R153	QRD161J-103	10K 1/6W CARBON RES	
	R154	QRD161J-103	10K 1/6W CARBON RES	
	R155	QRD167J-562	5.6K 1/6W CARBON RES	
	R156	QRD167J-822	8.2K 1/6W CARBON RES	
	R157	QRD161J-103	10K 1/6W CARBON RES	
	R158	QRD161J-273	27K 1/6W CARBON RES	
	R159	QRD161J-561	560 1/6W CARBON RES	
	R160	QRD161J-103	10K 1/6W CARBON RES	A
	R160	QRD167J-562	5.6K 1/6W CARBON RES	U
	R160	QRD167J-562	5.6K 1/6W CARBON RES	UT
	R161	QRD161J-104	100K 1/6W CARBON RES	A
	R161	QRD161J-823	82K 1/6W CARBON RES	U
	R161	QRD161J-823	82K 1/6W CARBON RES	UT
	R162	QRD161J-104	100K 1/6W CARBON RES	A
	R162	QRD161J-823	82K 1/6W CARBON RES	U
	R162	QRD161J-823	82K 1/6W CARBON RES	UT
	R163	QRD167J-332	3.3K 1/6W CARBON RES	A
	R163	QRD161J-472	4.7K 1/6W CARBON RES	U
	R163	QRD161J-472	4.7K 1/6W CARBON RES	UT
	R164	QRD167J-332	3.3K 1/6W CARBON RES	A
	R164	QRD161J-472	4.7K 1/6W CARBON RES	U
	R164	QRD161J-472	4.7K 1/6W CARBON RES	UT
	R165	QRD161J-274	270K 1/6W CARBON RES	A
	R165	QRD161J-184	180K 1/6W CARBON RES	U
	R165	QRD161J-184	180K 1/6W CARBON RES	UT
	R166	QRD161J-274	270K 1/6W CARBON RES	A
	R166	QRD161J-184	180K 1/6W CARBON RES	U
	R166	QRD161J-184	180K 1/6W CARBON RES	UT
	R167	QRD161J-473	47K 1/6W CARBON RES	A
	R167	QRD161J-393	39K 1/6W CARBON RES	U
	R167	QRD161J-393	39K 1/6W CARBON RES	UT
	R168	QRD161J-103	10K 1/6W CARBON RES	
	R169	QRD161J-103	10K 1/6W CARBON RES	
	R171	QRD167J-682	6.8K 1/6W CARBON RES	
	R172	QRD167J-682	6.8K 1/6W CARBON RES	
	R180	QRD161J-103	10K 1/6W CARBON RES	
	R181	QRD161J-222	2.2K 1/6W CARBON RES	
	R182	QRD161J-181	180 1/6W CARBON RES	
	R190	QRD161J-103	10K 1/6W CARBON RES	
	R191	QRD167J-562	5.6K 1/6W CARBON RES	
	R194	QRD161J-103	10K 1/6W CARBON RES	
	R195	QRD161J-473	47K 1/6W CARBON RES	
	R196	QRD161J-103	10K 1/6W CARBON RES	
	R197	QRD161J-222	2.2K 1/6W CARBON RES	
	R198	QRD167J-332	3.3K 1/6W CARBON RES	
	R199	QRD161J-472	4.7K 1/6W CARBON RES	
	R228	QRD161J-222	2.2K 1/6W CARBON RES	

Δ IS/A/F/E/T/Y/ I/PART/S

Accessories List

Symbol No.

M 2 M M

⚠	Item	Part Number	Part Name	Q'ty	Description	Area
	1	E30580-2164A	INSTRUCTION BOOK	1		
	2	RM-SR517VU	WIRE-LESS REMOTE CONTROL	1		
	3	EWP502-001	FM FEEDER ANTENNA	1		
	4	EQB4001-015	LOOP ANTENNA	1		
	5	EMZ2001-014	ADAPTOR PLUG	1		
	6	UM-4NJ-2PSA	DRY CELL	1		
	7	QPGA025-03505B	POLY BAG	1		
	-	BT-56001-1	WARRANTY CARD	1		A
	-	ENZ2203-001	ADAPTOR PLUG	1		U
	-	QPGA005-00703	ENVELOPE	1		U
⚠	-	QMF51E2-5R0J1	FUSE	1		U
	-	E67142-T5R0	FUSE LABEL	1		U
	-	E43486-641A	RX-516VBK I.SHE	1		U
	-	ENZ2203-001	ADAPTOR PLUG	1		UT
	-	QPGA005-00703	ENVELOPE	1		UT
⚠	-	QMF51E2-5R0J1	FUSE	1		UT
	-	E67142-T5R0	FUSE LABEL	1		UT
	-	E43486-641A	RX-516VBK I.SHE	1		UT

The Marks for Designated Areas

A Australia

U Universal

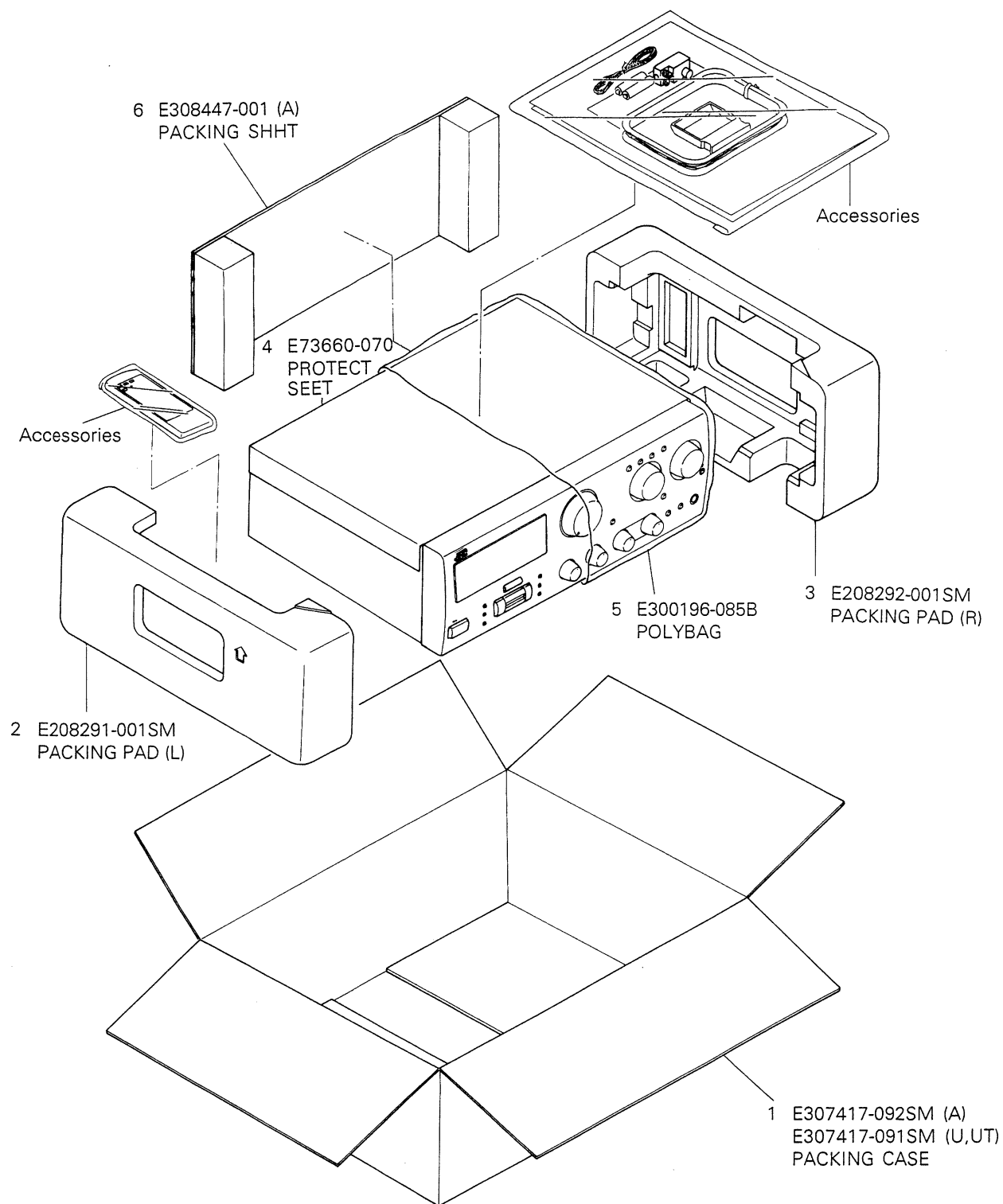
UT Taiwan

No mark indicates all area.

Packing Materials and Part Numbers

Symbol No.

M	3	M	M
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The Marks for Designated Areas								
A		Australia	U		Universal Type	UT		Taiwan
No mark indicates all area.								

PARTS LIST

Note : All printed circuit board assemblies are not available as service parts.

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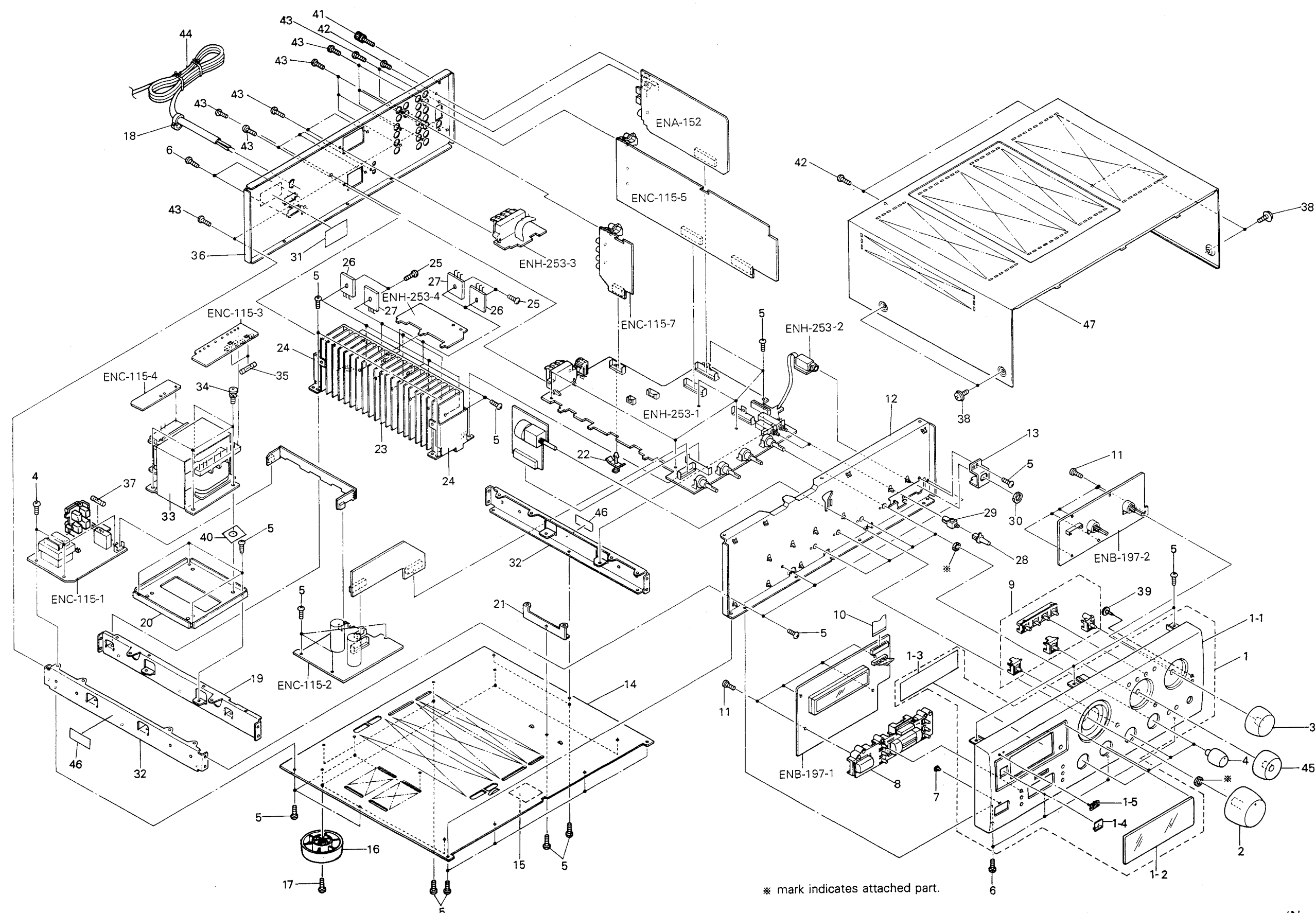
RX-517VTN

— MEMO —

General Exploded View and Parts List

Symbol No.

M	1	M	M
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■ PARTS LIST

Symbol No.

M	1	M	M
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⚠	Item	Part Number	Part Name	Q'ty	Description	Area
	1	EFP-RX517VTNJ(S	FRONT PANEL ASS'Y	1		
	1-1	E102909-014SM	FRONT PANEL	1		
	1-2	E309112-010SM	WINDOW SCREEN	1		
	1-3	E408727-001SM	FLOURESCENT DISPL.SCREEN	1		
	1-4	E72436-006	REMORT SCREEN	1		
	1-5	VJD5429-001	JVC MARK	1		
	2	E309107-002SM	VOLUME KNOB	1		
	3	E309110-002SM	SELECT KNOB	1		
	4	E309111-005SM	KNOB	4	BASS,TRE,ETC	
	5	SBSG3008CC	TAPPING SCREW	44		
	6	SDSG3008M	TAPPING SCREW	6		
	7	FSJD4001-002	INDICATOR	1	POWER	
	8	E208276-002SM	PUSH BUTTON	1	SURROUND/POWER	
	9	E309105-002SM	PUSH BUTTON	1	TUNER/ETC	
	10	EWR623K-40TT	FLAT WIRE	1		
	11	SDSF2608Z	SCREW	9		
	12	E102911-001SM	FRONT BRACKET	1		
	13	E407323-002SM	HEADPHONE BRACKET	1		
	14	E102820-001SM	CHASSIS BASE	1		
	15	E70115-002	CAUTION LABEL	1		C
	15	E70281-001	CAUTION LABEL	1		J
	16	VJF4039-00G	FOOT	4		
	17	SBST3010Z	TAPPING SCREW	4	FOR FOOT	
⚠	18	QHS3876-162	CORD STOPPER	1		
	19	E208082-002SM	CENTER BRACKET	1		
	20	E308837-002SM	TRANSFORMER BRACKET	1		
	21	E407984-001SM	P.W.BOARD HOLDER	1		
	22	E406084-002	FASTENER	1		
	23	E308835-003SM	HEAT SINK	1		
	24	E308836-002SM	HEAT SINK BRACKET	2		
	25	E73525-003	SCREW	8		
	26	2SC4278LD(D,E)	SI.TRANSISTOR	4		
	27	2SA1633LD(D,E)	SI.TRANSISTOR	4		
	28	E407321-001SM	PUSH BUTTON	2		
	29	E407983-001SM	PUSH SHAFT	2		
	30	VKZ4150-001	NUT	1		
	31	E65507-001	CAUTION LABEL	1		C
		E67199-001	CAUTION LABEL	1		J
	32	E208081-002SM	SIDE BRACKET	2		
	33	ETP1200-64JAJ	POWER TRANSFORMER	1		
⚠	34	E65389-006	SPECIAL SCREW	4		
	35	QMF0007-2R0J1	FUSE	2	F851,F852(125V/2.0A)	
⚠	36	E102821-017SM	REAR PANEL	1		
	37	QMF0007-6R3J1	FUSE	1	F001(125V/6.3A)	
	38	E61660-004	SPECIAL SCREW	4		
	39	E408326-001SM	INDICATOR LENS	1		
	40	E406309-002	SPACER	4	FOR POWER TRANSFORMER	
	41	E408091-001	EARTH PLUG	1		
	42	SBST3006M	TAPPING SCREW	1		
	43	E73273-006	SPECIAL SCREW	17		
⚠	44	QMP1D00-200H	POWER CORD	1		
	45	E309110-004SM	SELECT KNOB	1		
	46	E306805-127	SPACER	2	FOR SIDE BRACKET	

⚠	Item	Part Number	Part Name	Q'ty	Description	Area
	47	E207377-221	METAL COVER	1		
	-	E72430-002	LABEL	1		
	-	E61029-005	NUMBER LABEL	1		
	-	E408632-002	RATING LABEL	1		C
	-	E75139-001	NAME LABEL	1		J

The Marks for Designated Areas

J the U.S.A.

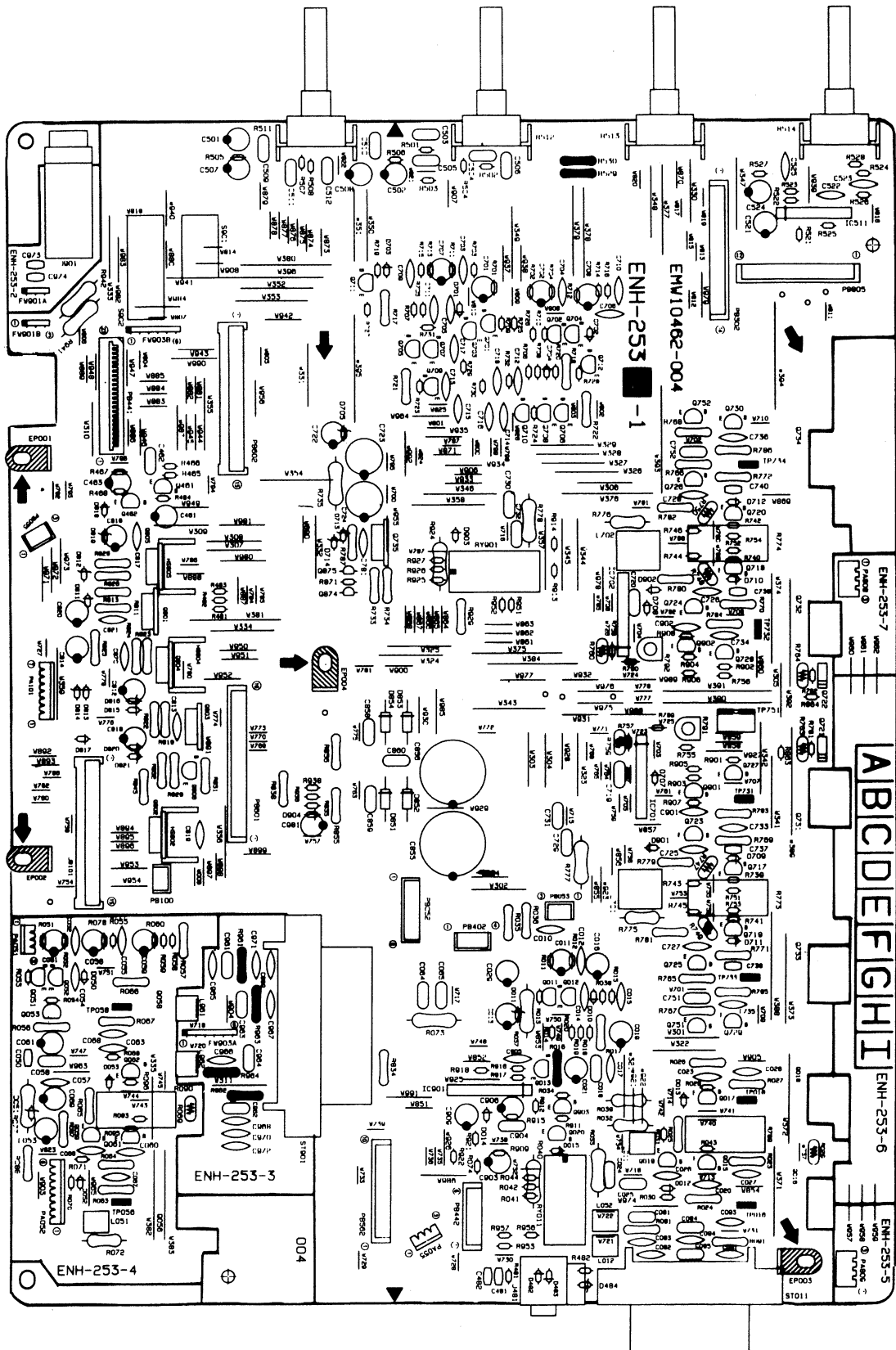
C Canada

No mark indicates all area.

Printed Circuit Board Ass'y and Parts List

■ ENH-253 □ Amplifier PC Board Assy

Note: ENH-253 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Version	Designated Areas
ENH-253 E	J	the U.S.A.
ENH-253 D	C	Canada

Transistors

ITEM	PART NUMBER	DESCRIPTION	AREA
Q011	2SC2240(BL)	SI. TRANSIST	
Q012	2SC2240(BL)	SI. TRANSIST	
Q013	2SA1038(R,S)	SI. TRANSIST ROHM	
Q015	2SC2235(O,Y)	SI. TRANSIST TOSHIBA	
Q017	2SA965(Y)	SI. TRANSIST TOSHIBA	
Q019	2SC1775AV(F1)	SI. TRANSIST HITACHI	
Q020	DTC143TS	DIGITAL TRA ROHM	
Q051	2SC2240(BL)	SI. TRANSIST	
Q052	2SC2240(BL)	SI. TRANSIST	
Q053	2SA1038(R,S)	SI. TRANSIST ROHM	
Q055	2SC2235(O,Y)	SI. TRANSIST TOSHIBA	
Q057	2SA965(Y)	SI. TRANSIST TOSHIBA	
Q059	2SC1775AV(F1)	SI. TRANSIST HITACHI	
Q701	2SC1775AV(F1)	SI. TRANSIST HITACHI	
Q702	2SC1775AV(F1)	SI. TRANSIST HITACHI	
Q703	2SC1775AV(F1)	SI. TRANSIST HITACHI	
Q704	2SC1775AV(F1)	SI. TRANSIST HITACHI	
Q705	2SA1038(R,S)	SI. TRANSIST ROHM	
Q706	2SA1038(R,S)	SI. TRANSIST ROHM	
Q707	2SA1038(R,S)	SI. TRANSIST ROHM	
Q708	2SA1038(R,S)	SI. TRANSIST ROHM	
Q709	2SA1038(R,S)	SI. TRANSIST ROHM	
Q710	2SA1038(R,S)	SI. TRANSIST ROHM	
Q711	2SC2389(S,E)	SI. TRANSIST ROHM	
Q712	2SC2389(S,E)	SI. TRANSIST ROHM	
Q717	2SC2389(S,E)	SI. TRANSIST ROHM	
Q718	2SC2389(S,E)	SI. TRANSIST ROHM	
Q719	2SA1038(R,S)	SI. TRANSIST ROHM	
Q720	2SA1038(R,S)	SI. TRANSIST ROHM	
Q721	2SD636	SI. TRANSIST MATSUSHITA	
Q722	2SD636	SI. TRANSIST MATSUSHITA	
Q723	2SC2389(S,E)	SI. TRANSIST ROHM	
Q724	2SC2389(S,E)	SI. TRANSIST ROHM	
Q725	2SA1038(R,S)	SI. TRANSIST ROHM	
Q726	2SA1038(R,S)	SI. TRANSIST ROHM	
Q727	2SC2235(O,Y)	SI. TRANSIST TOSHIBA	
Q728	2SC2235(O,Y)	SI. TRANSIST TOSHIBA	
Q729	2SA965(Y)	SI. TRANSIST TOSHIBA	
Q730	2SA965(Y)	SI. TRANSIST TOSHIBA	
Q801	2SB1565(E,F)	SI. TRANSIST ROHM	
Q802	2SD2394(E,F)	SI. TRANSIST ROHM	
Q803	2SD2394(E,F)	SI. TRANSIST ROHM	
Q804	2SD2394(E,F)	SI. TRANSIST ROHM	
Q805	2SD2394(E,F)	SI. TRANSIST ROHM	
Q806	2SC945A	SI. TRANSIST NEC	
Q901	2SC2389(S,E)	SI. TRANSIST ROHM	
Q902	2SC2389(S,E)	SI. TRANSIST ROHM	
Q903	2SA1038(R,S)	SI. TRANSIST ROHM	

△ : SAFETY PARTS

I.C.s

ITEM	PART NUMBER	DESCRIPTION	AREA
IC511	BA15218N	I.C(MONO-AN ROHM	
IC901	TA7317P	I.C(MONO-AN TOSHIBA	

△ : SAFETY PARTS

Diodes

ITEM	PART NUMBER	DESCRIPTION	AREA
D010	1SS133	SI. DIODE ROHM	
D011	MTZ18JC	ZENER DIODE ROHM	
D012	1SS133	SI. DIODE ROHM	
D013	1SS133	SI. DIODE ROHM	
D014	1SS133	SI. DIODE ROHM	
D015	MTZ24JC	ZENER DIODE ROHM	
D050	1SS133	SI. DIODE ROHM	
D051	MTZ18JC	ZENER DIODE ROHM	
D052	1SS133	SI. DIODE ROHM	
D053	1SS133	SI. DIODE ROHM	
D482	1SS133	SI. DIODE ROHM	
D483	1SS133	SI. DIODE ROHM	
D484	MTZ6.2JC	ZENER DIODE ROHM	
D701	1SS133	SI. DIODE ROHM	
D702	1SS133	SI. DIODE ROHM	

△ : SAFETY PARTS

Diodes

ITEM	PART NUMBER	DESCRIPTION	AREA
D703	1SS133	SI. DIODE ROHM	
D704	1SS133	SI. DIODE ROHM	
D705	MTZ18JC	ZENER DIODE ROHM	
D709	1SS133	SI. DIODE ROHM	
D710	1SS133	SI. DIODE ROHM	
D711	1SS133	SI. DIODE ROHM	
D712	1SS133	SI. DIODE ROHM	
D811	1SS133	SI. DIODE ROHM	
D812	MTZ16JC	ZENER DIODE ROHM	
D813	1SS133	SI. DIODE ROHM	
D814	MTZ6.8JC	ZENER DIODE ROHM	
D815	1SS133	SI. DIODE ROHM	
D816	MTZ13JC	ZENER DIODE ROHM	
D817	1SS133	SI. DIODE ROHM	
D818	1SS133	SI. DIODE ROHM	
D819	MTZ16JC	ZENER DIODE ROHM	
D820	1SS133	SI. DIODE ROHM	
D821	MTZ15JC	ZENER DIODE ROHM	
D851	10E2-FD	DIODE NIHONINTER	
D852	10E2-FD	DIODE NIHONINTER	
D853	10E2-FD	DIODE NIHONINTER	
D854	10E2-FD	DIODE NIHONINTER	
D901	1SS133	SI. DIODE ROHM	
D902	1SS133	SI. DIODE ROHM	
D903	MTZ24JC	ZENER DIODE ROHM	
D904	1SS133	SI. DIODE ROHM	

△ : SAFETY PARTS

Capacitors

ITEM	PART NUMBER	DESCRIPTION	AREA
C010	QCF21HP-223A	0.022MF 50V CER. CAPACI	
C011	QETB1HM-106	10MF 50V E. CAPACITO	
C012	QCS31HJ-271Z	270PF 50V CER. CAPACI	
C013	QETB1EM-106	10MF 25V AL E. CAPAC	
C014	QCS31HJ-101Z	100PF 50V CER. CAPACI	
C015	QCS31HJ-5R0Z	5PF 50V CER. CAPACI	
C016	QETB1CM-476	47MF 16V AL E. CAPAC	
C017	QCS22HJ-330	33PF 500V CER. CAPACI	
C018	QFLC1HJ-103ZM	0.01MF 50V METAL. MYLA	
C019	QETB1HM-476	47MF 50V E. CAPACITO	
C020	QCS32HJ-470	47PF 500V CER. CAPACI	
C021	QETB1HM-225	2.2MF 50V AL E. CAPAC	
C023	QCS32HJ-470	47PF 500V CER. CAPACI	
C024	QFLC1HJ-473ZM	0.047MF 50V METAL. MYLA	
C024	QFLC1HJ-223ZM	0.022MF 50V METAL. MYLA	
C025	QFLC1HJ-473ZM	0.047MF 50V METAL. MYLA	
C026	QCF21HP-223A	0.022MF 50V CER. CAPACI	
C027	QCY31HK-332Z	3300PF 50V CER. CAPACI	
C028	QCY31HK-332Z	3300PF 50V CER. CAPACI	
C050	QCHB1EZ-223	0.022MF 25V CER. CAPACI	
C051	QETB1HM-106	10MF 50V E. CAPACITO	
C052	QCS31HJ-271Z	270PF 50V CER. CAPACI	
C053	QETB1EM-106	10MF 25V AL E. CAPAC	
C054	QCS31HJ-101Z	100PF 50V CER. CAPACI	
C055	QCS31HJ-5R0Z	5PF 50V CER. CAPACI	
C056	QETB1CM-476	47MF 16V AL E. CAPAC	
C057	QCS22HJ-330	33PF 500V CER. CAPACI	
C058	QFLC1HJ-103ZM	0.01MF 50V METAL. MYLA	
C059	QETB1HM-476	47MF 50V E. CAPACITO	
C060	QCS32HJ-470	47PF 500V CER. CAPACI	
C061	QETB1HM-225	2.2MF 50V AL E. CAPAC	
C063	QCS32HJ-470	47PF 500V CER. CAPACI	
C064	QFLC1HJ-473ZM	0.047MF 50V METAL. MYLA	
C064	QFLC1HJ-223ZM	0.022MF 50V METAL. MYLA	
C065	QFLC1HJ-473ZM	0.047MF 50V METAL. MYLA	
C066	QCF21HP-223A	0.022MF 50V CER. CAPACI	
C067	QCY31HK-332Z	3300PF 50V CER. CAPACI	
C068	QCY31HK-332Z	3300PF 50V CER. CAPACI	
C069	QETB2AM-106	10MF 100V AL E. CAPAC	
C481	QCB81HK-331Y	330PF 50V CER. CAPACI	
C482	QCHB1EZ-223	0.022MF 25V CER. CAPACI	
C501	QETB1HM-105	1MF 50V AL E. CAPAC	
C502	QETB1HM-105	1MF 50V AL E. CAPAC	
C503	QFLC1HJ-823ZM	0.082MF 50V AL E. CAPAC	
C504	QFLC1HJ-823ZM	0.082MF 50V AL E. CAPAC	
C505	QFLC1HJ-153ZM	0.015MF 50V METAL. MYLA	
C506	QFLC1HJ-153ZM	0.015MF 50V METAL. MYLA	
C507	QETB1HM-105	1MF 50V AL E. CAPAC	
C508	QETB1HM-105	1MF 50V AL E. CAPAC	
C509	QFLC1HJ-332ZM	3300PF 50V METAL. MYLA	
C510	QFLC1HJ-332ZM	3300PF 50V METAL. MYLA	
C511	QFLC1HJ-183ZM	0.018MF 50V METAL. MYLA	
C512	QFLC1HJ-183ZM	0.018MF 50V METAL. MYLA	
C521	QETB1HM-106	10MF 50V E. CAPACITO	
C522	QCY31HK-103Z	0.01MF 50V CER. CAPACI	
C523	QFLC1HJ-123ZM	0.012MF 50V MYLAR CAPA	
C524	QETB1HM-106	10MF 50V E. CAPACITO	
C525	QCS21HJ-101A	100PF 50V CER. CAPACI	
C701	QETB1HM-106	10MF 50V E. CAPACITO	
C702	QETB1HM-106	10MF 50V E. CAPACITO	

△ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	C703	QCS31HJ-271Z	270PF 50V CER.CAPACI	
	C704	QCS31HJ-271Z	270PF 50V CER.CAPACI	
	C705	QCS31HJ-101Z	100PF 50V CER.CAPACI	
	C706	QCS31HJ-101Z	100PF 50V CER.CAPACI	
	C707	QETB1CM-476	47MF 16V AL E.CAPAC	
	C708	QETB1CM-476	47MF 16V AL E.CAPAC	
	C709	QCS31HJ-100Z	10PF 50V CER.CAPACI	
	C710	QCS31HJ-100Z	10PF 50V CER.CAPACI	
	C711	QCY31HK-152Z	1500PF 50V CER.CAPACI	
	C712	QCY31HK-152Z	1500PF 50V CER.CAPACI	
	C713	QCS31HJ-680Z	68PF 50V CER.CAPACI	
	C714	QCS31HJ-680Z	68PF 50V CER.CAPACI	
	C715	QCS31HJ-680Z	68PF 50V CER.CAPACI	
	C716	QCS31HJ-680Z	68PF 50V CER.CAPACI	
	C717	QCS22HJ-220	22PF 500V CER.CAPACI	
	C718	QCS22HJ-220	22PF 500V CER.CAPACI	
	C719	QFLC1HJ-472ZM	4700PF 50V METAL.MYLA	
	C720	QFLC1HJ-472ZM	4700PF 50V METAL.MYLA	
	C722	QETB1EM-476	47MF 25V AL E.CAPAC	
	C723	QETB2AM-476	47MF 100V AL E.CAPAC	
	C724	QETB2AM-476	47MF 100V AL E.CAPAC	
	C725	QCS32HJ-470	47PF 500V CER.CAPACI	
	C726	QCS32HJ-470	47PF 500V CER.CAPACI	
	C727	QCS32HJ-470	47PF 500V CER.CAPACI	
	C728	QCS32HJ-470	47PF 500V CER.CAPACI	
	C729	QFLC1HJ-473ZM	0.047MF 50V METAL.MYLA	C
	C729	QFLC1HJ-223ZM	0.022MF 50V METAL.MYLA	J
	C730	QFLC1HJ-473ZM	0.047MF 50V METAL.MYLA	C
	C730	QFLC1HJ-223ZM	0.022MF 50V METAL.MYLA	J
	C731	QFLC1HJ-473ZM	0.047MF 50V METAL.MYLA	C
	C732	QFLC1HJ-473ZM	0.047MF 50V METAL.MYLA	C
	C733	QCF21HP-472	4700PF 50V CER.CAPACI	
	C734	QCF21HP-472	4700PF 50V CER.CAPACI	
	C735	QCF21HP-472	4700PF 50V CER.CAPACI	
	C736	QCF21HP-472	4700PF 50V CER.CAPACI	
	C812	QETB1EM-107	100MF 25V AL E.CAPAC	
	C813	QCF21HP-472	4700PF 50V CER.CAPACI	
	C814	QETB1EM-107	100MF 25V AL E.CAPAC	
	C816	QETB1EM-107	100MF 25V AL E.CAPAC	
	C817	QCF21HP-472	4700PF 50V CER.CAPACI	
	C818	QETB1EM-107	100MF 25V AL E.CAPAC	
	C819	QCF21HP-472	4700PF 50V CER.CAPACI	
	C820	QETB1EM-107	100MF 25V AL E.CAPAC	
	C821	QCF21HP-472	4700PF 50V CER.CAPACI	
	C855	QETB1VM-228N	2200MF 35V E.CAPACITO	
	C856	QETB1VM-228N	2200MF 35V E.CAPACITO	
	C858	QFN82AJ-104	0.1MF 100V MYLAR CAPA	
	C859	QFN82AJ-104	0.1MF 100V MYLAR CAPA	
	C860	QFN82AJ-104	0.1MF 100V MYLAR CAPA	
	C870	QCF21HP-472	4700PF 50V CER.CAPACI	
	C901	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C902	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C903	QETB1HM-226E	22MF 50V E.CAPACITO	
	C904	QCF31HP-103Z	0.01MF 50V CER.CAPACI	
	C905	QCY31HK-102Z	1000PF 50V CER.CAPACI	
	C906	QETB1AM-476	47MF 10V E.CAPACITO	
	C909	QETB1CM-226	22MF 16V E.CAPACITO	
	C981	QETB1HM-225	2.2MF 50V AL E.CAPAC	

Δ IS SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	R011	QRD161J-222	2.2K 1/6W CARBON RES	
	R012	QRD161J-104	100K 1/6W CARBON RES	
	R013	QRD161J-123	12K 1/6W CARBON RES	
	R014	QRD161J-202	2K 1/6W CARBON RES	
	R015	QRD161J-104	100K 1/6W CARBON RES	
	R016	QRD14CJ-181S	180 1/4W UNF.CARBON	
	R017	QRD14CJ-272S	2.7K 1/4W UNF.CARBON	
	R018	QRD161J-222	2.2K 1/6W CARBON RES	
	R019	QRD167J-272	2.7K 1/6W CARBON RES	
	R020	QRD161J-222	2.2K 1/6W CARBON RES	
	R023	QRD14CJ-100SX	10 1/4W UNF.CARBON	
	R024	QRD14CJ-100SX	10 1/4W UNF.CARBON	
	R025	QRD14CJ-561SX	560 1/4W UNF.CARBON	
	R026	QRD14CJ-100SX	10 1/4W UNF.CARBON	
	R027	QRD14CJ-100SX	10 1/4W UNF.CARBON	
	R028	QRD161J-391	390 1/6W CARBON RES	
	R029	ERT-D2WHL202S	2K 1/4W NEGATIVE T	
	R030	QRD161J-183	18K 1/6W CARBON RES	
	R031	QRD161J-123	12K 1/6W CARBON RES	
	R032	QRD125J-330	33 1/2W UNF.CARBON	
	R033	QRG022J-100A	10 2W OXIDE META	
	R034	QRD161J-104	100K 1/6W CARBON RES	
	R035	QRD14CJ-680SX	68 1/4W UNF.CARBON	
	R036	QRD14CJ-680SX	68 1/4W UNF.CARBON	
	R037	QRG022J-562A	5.6K 2W OXIDE META	
	R038	QRD167J-751	750 1/6W CARBON RES	
	R039	QRG012J-470A	47 1W OXIDE META	
	R040	QRG022J-821AM	820 2W OXIDE META	
	R041	QRD167J-161	160 1/6W CARBON RES	
	R042	QRD167J-161	160 1/6W CARBON RES	

Δ IS SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	R043	QRD161J-102	1K 1/6W CARBON RES	
	R044	QRD167J-161	160 1/6W CARBON RES	
	R051	QRD161J-222	2.2K 1/6W CARBON RES	
	R052	QRD161J-104	100K 1/6W CARBON RES	
	R053	QRD161J-123	12K 1/6W CARBON RES	
	R054	QRD161J-202	2K 1/6W CARBON RES	
	R055	QRD161J-104	100K 1/6W CARBON RES	
	R056	QRD14CJ-181S	180 1/4W UNF.CARBON	
	R057	QRD14CJ-272S	2.7K 1/4W UNF.CARBON	
	R058	QRD161J-222	2.2K 1/6W CARBON RES	
	R059	QRD167J-272	2.7K 1/6W CARBON RES	
	R060	QRD161J-222	2.2K 1/6W CARBON RES	
	R063	QRD14CJ-100SX	10 1/4W UNF.CARBON	
	R064	QRD14CJ-100SX	10 1/4W UNF.CARBON	
	R065	QRD14CJ-561SX	560 1/4W UNF.CARBON	
	R066	QRD14CJ-100SX	10 1/4W UNF.CARBON	
	R067	QRD14CJ-100SX	10 1/4W UNF.CARBON	
	R068	QRD161J-391	390 1/6W CARBON RES	
	R069	ERT-D2WHL202S	2K 1/4W NEGATIVE T	
	R070	QRD161J-183	18K 1/6W CARBON RES	
	R071	QRD161J-123	12K 1/6W CARBON RES	
	R072	QRD125J-330	33 1/2W UNF.CARBON	
	R073	QRG022J-100AM	10 2W OXIDE META	
	R074	QRD161J-104	100K 1/6W CARBON RES	
	R077	QRG022J-562A	5.6K 2W OXIDE META	
	R078	QRD167J-751	750 1/6W CARBON RES	
	R083	QRD161J-102	1K 1/6W CARBON RES	
	R087	QRD14CJ-330SX	33 1/4W UNF.CARBON	
	R088	QRD14CJ-330SX	33 1/4W UNF.CARBON	
	R090	ERF032K-R22	0.22 3W CEM.RESIST	
	R090	ERF032K-R47	0.47 3W UNF.WIRE W	
	R481	QRD161J-100	10 1/6W CARBON RES	
	R482	QRD161J-102	1K 1/6W CARBON RES	
	R501	QRD161J-203	20K 1/6W CARBON RES	
	R502	QRD161J-203	20K 1/6W CARBON RES	
	R503	QRD161J-362	3.6K 1/6W CARBON RES	
	R504	QRD161J-362	3.6K 1/6W CARBON RES	
	R505	QRD161J-472	4.7K 1/6W CARBON RES	
	R506	QRD161J-472	4.7K 1/6W CARBON RES	
	R507	QRD161J-122	1.2K 1/6W CARBON RES	
	R508	QRD161J-122	1.2K 1/6W CARBON RES	
	R511	QVDB96C-E15CJ3	100K VARIABLE R	
	R512	QVDB96C-E15CJ3	100K VARIABLE R	
	R513	QVDA96W-E15DJ3	100K VARIABLE R	
	R514	QVDB96C-E15DJ3	100K VARIABLE R	
	R521	QRD161J-104	100K 1/6W CARBON RES	
	R522	QRD161J-203	20K 1/6W CARBON RES	
	R523	QRD161J-183	18K 1/6W CARBON RES	
	R524	QRD161J-202	2K 1/6W CARBON RES	
	R525	QRD167J-223	22K 1/6W CARBON RES	
	R526	QRD161J-132	1.3K 1/6W CARBON RES	
	R527	QRD161J-104	100K 1/6W CARBON RES	
	R528	QRD161J-203	20K 1/6W CARBON RES	
	R529	QRZ0077-680	68 1/4W FUSIBLE RE	
	R530	QRZ0077-680	68 1/4W FUSIBLE RE	
	R701	QRD161J-222	2.2K 1/6W CARBON RES	
	R702	QRD161J-222	2.2K 1/6W CARBON RES	
	R703	QRD161J-104	100K 1/6W CARBON RES	
	R704	QRD161J-104	100K 1/6W CARBON RES	
	R705	QRD167J-152	1.5K 1/6W CARBON RES	
	R706	QRD167J-152	1.5K 1/6W CARBON RES	
	R707	QRD167J-152	1.5K 1/6W CARBON RES	
	R708	QRD167J-152	1.5K 1/6W CARBON RES	
	R709	QRD167J-822	8.2K 1/6W CARBON RES	
	R710	QRD167J-822	8.2K 1/6W CARBON RES	
	R711	QRD161J-621	620 1/6W CARBON RES	
	R712	QRD161J-621	620 1/6W CARBON RES	
	R713	QRD161J-133Y	13K 1/6W CARBON RES	
	R714	QRD161J-133Y	13K 1/6W CARBON RES	
	R715	QRD161J-823	82K 1/6W CARBON RES	
	R716	QRD161J-823	82K 1/6W CARBON RES	
	R717	QRD12CJ-153SX	15K 1/2W UNF.CARBON	
	R718	QRD12CJ-153SX	15K 1/2W UNF.CARBON	
	R719	QRD161J-391	390 1/6W CARBON RES	
	R720	QRD161J-391	390 1/6W CARBON RES	
	R721	QRD14CJ-151SX	150 1/4W UNF.CARBON	
	R722	QRD14CJ-151SX	150 1/4W UNF.CARBON	
	R723	QRD167J-152	1.5K 1/6W CARBON RES	
	R724	QRD167J-152	1.5K 1/6W CARBON RES	
	R725	QRD161J-333	33K 1/6W CARBON RES	
	R726	QRD161J-333	33K 1/6W CARBON RES	
	R727	QRD161J-391	390 1/6W CARBON RES	
	R728	QRD161J-391	390 1/6W CARBON RES	
	R729	QRD161J-391	390 1/6W CARBON RES	
	R730	QRD161J-391	390 1/6W CARBON RES	
	R731	QRD161J-101	100 1/6W CARBON RES	
	R732	QRD161J-101	100 1/6W CARBON RES	
	R733	QRD14CJ-680SX	68 1/4W UNF.CARBON	
	R734	QRD14CJ-680SX	68 1/4W UNF.CARBON	
	R735	QRG022J-562A	5.6K 2W OXIDE META	
	R739	QRD167J-121	120 1/6W CARBON RES	
	R740	QRD167J-121	120 1/6W CARBON RES	
	R741	QRD167J-121	120 1/6W CARBON RES	
	R742	QRD167J-121	120 1/6W CARBON RES	
	R751	QRD167J-151	150 1/6W CARBON RES	

Δ IS SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	R752	QRD167J-151	150 1/6W CARBON RES	
	R753	QRD167J-151	150 1/6W CARBON RES	
	R754	QRD167J-151	150 1/6W CARBON RES	
	R755	QRD161J-132	1.3K 1/6W CARBON RES	
	R755	QRD161J-471	470 1/6W CARBON RES	
	R756	QRD161J-132	1.3K 1/6W CARBON RES	
	R756	QRD161J-471	470 1/6W CARBON RES	
	R761	QRD161J-391	390 1/6W CARBON RES	
	R762	QRD161J-391	390 1/6W CARBON RES	
	R765	QRD14CJ-272S	2.7K 1/4W UNF. CARBON	
Δ	R766	QRD14CJ-272S	2.7K 1/4W UNF. CARBON	
Δ	R767	QRD14CJ-271S	270 1/4W UNF. CARBON	
Δ	R768	QRD14CJ-271S	270 1/4W UNF. CARBON	
Δ	R769	QRD14CJ-100SX	10 1/4W UNF. CARBON	
Δ	R770	QRD14CJ-100SX	10 1/4W UNF. CARBON	
Δ	R771	QRD14CJ-100SX	10 1/4W UNF. CARBON	
Δ	R772	QRD14CJ-100SX	10 1/4W UNF. CARBON	
Δ	R773	ERF032K-R22	0.22 3W CEM. RESIST	
Δ	R774	ERF032K-R22	0.22 3W CEM. RESIST	
Δ	R775	QRD125J-470	47 1/2W UNF. CARBON	
Δ	R776	QRD125J-470	47 1/2W UNF. CARBON	
Δ	R777	QRG022J-100AM	10 2W OXIDE META	
Δ	R778	QRG022J-100AM	10 2W OXIDE META	
Δ	R779	QRD14CJ-100SX	10 1/4W UNF. CARBON	
Δ	R780	QRD14CJ-100SX	10 1/4W UNF. CARBON	
Δ	R781	QRD14CJ-100SX	10 1/4W UNF. CARBON	
Δ	R782	QRD14CJ-100SX	10 1/4W UNF. CARBON	
Δ	R783	QRD14CJ-100SX	10 1/4W UNF. CARBON	
Δ	R784	QRD14CJ-100SX	10 1/4W UNF. CARBON	
Δ	R785	QRD14CJ-100SX	10 1/4W UNF. CARBON	
Δ	R786	QRD14CJ-100SX	10 1/4W UNF. CARBON	
Δ	R791	QVPA601-501A	500 TRIMMER RE	
Δ	R792	QVPA601-501A	500 TRIMMER RE	
Δ	R799	ERF032K-R47	0.47 3W UNF. WIRE W	
Δ	R811	QRD14CJ-120SX	12 1/4W UNF. CARBON	
Δ	R813	QRD14CJ-122SX	1.2K 1/4W UNF. CARBON	
Δ	R819	QRD14CJ-100SX	10 1/4W UNF. CARBON	
Δ	R822	QRD14CJ-272S	2.7K 1/4W UNF. CARBON	
Δ	R823	QRD14CJ-220S	22 1/4W UNF. CARBON	
Δ	R824	QRD14CJ-220S	22 1/4W UNF. CARBON	
Δ	R825	QRD14CJ-332SX	3.3K 1/4W UNF. CARBON	
Δ	R826	QRD14CJ-120SX	12 1/4W UNF. CARBON	
Δ	R828	QRD14CJ-122SX	1.2K 1/4W UNF. CARBON	
Δ	R829	QRD143J-472S	4.7K 1/4W CARBON RES	
Δ	R831	QRD145J-150S	15 1/4W UNF. CARBON	
Δ	R832	QRD12CJ-103S	10K 1/2W UNF. CARBON	
Δ	R834	QRD14CJ-220S	22 1/4W UNF. CARBON	
Δ	R838	QRD12CJ-2R2SX	2.2 1/2W CARBON RES	
Δ	R843	QRD14CJ-4R7S	4.7 1/4W UNF. CARBON	
Δ	R855	QRD12CJ-2R2SX	2.2 1/2W CARBON RES	
Δ	R856	QRD12CJ-2R2SX	2.2 1/2W CARBON RES	
	R901	QRD161J-681	680 1/6W CARBON RES	
	R902	QRD161J-681	680 1/6W CARBON RES	
	R903	QRD167J-562	5.6K 1/6W CARBON RES	
	R904	QRD167J-562	5.6K 1/6W CARBON RES	
	R905	QRD161J-123	12K 1/6W CARBON RES	
	R906	QRD161J-123	12K 1/6W CARBON RES	
	R907	QRD161J-102	1K 1/6W CARBON RES	
	R908	QRD161J-102	1K 1/6W CARBON RES	
	R909	QRD161J-103	10K 1/6W CARBON RES	
	R911	QRD167J-332	3.3K 1/6W CARBON RES	
	R912	QRD161J-473	47K 1/6W CARBON RES	
	R913	QRD161J-104	100K 1/6W CARBON RES	
	R914	QRD161J-823	82K 1/6W CARBON RES	
	R915	QRD161J-823	82K 1/6W CARBON RES	
	R916	QRD161J-563	56K 1/6W CARBON RES	
	R917	QRD161J-683	68K 1/6W CARBON RES	
	R918	QRD161J-392	3.9K 1/6W CARBON RES	
	R921	QRD161J-224	220K 1/6W CARBON RES	
	R922	QRD167J-562	5.6K 1/6W CARBON RES	
Δ	R924	QRG022J-821AM	820 2W OXIDE META	
	R925	QRD167J-161	160 1/6W CARBON RES	
	R926	QRD167J-161	160 1/6W CARBON RES	
	R927	QRD167J-161	160 1/6W CARBON RES	
Δ	R929	QRD14CJ-470SX	47 1/4W UNF. CARBON	
	R935	QRD167J-562	5.6K 1/6W CARBON RES	
	R936	QRD167J-822	8.2K 1/6W CARBON RES	
	R938	QRD161J-103	10K 1/6W CARBON RES	
Δ	R941	QRG022J-471A	470 2W OXIDE META	
Δ	R942	QRG022J-471A	470 2W OXIDE META	
	R951	QRD161J-333	33K 1/6W CARBON RES	
	R952	QRD161J-333	33K 1/6W CARBON RES	
	R953	QRD161J-333	33K 1/6W CARBON RES	
	R956	QRD161J-391	390 1/6W CARBON RES	
	R957	QRD167J-223	22K 1/6W CARBON RES	

Δ : SAFETY PARTS

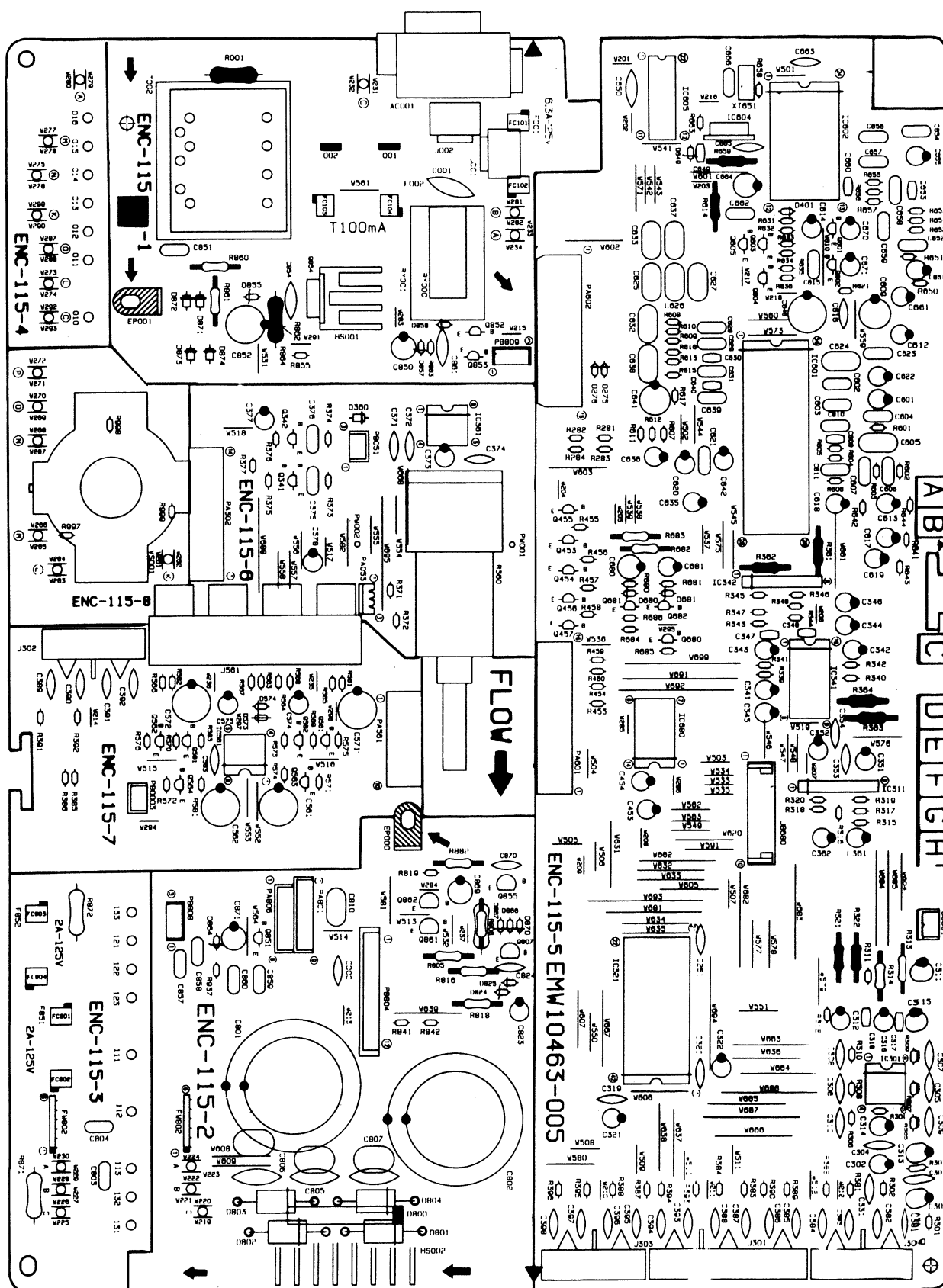
Others

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMW10462-004	PRINTED BOA	
		SBSG3008CC	TAPPING SCR	
	J481	QMS3501-021	PIN JACK	
	J901	QMS6022-V01	MICROPHONE	
	L011	EQL0001-R45	INDUCTOR	
	L051	EQL0001-R45	INDUCTOR	
	L701	EQL0001-1R0	INDUCTOR	
	L702	EQL0001-1R0	INDUCTOR	
	S001	QSP6002-E02J2	PUSH SWITCH 5PK	
	EP001	EMZ4002-001Z	EARTH PLATE	
	EP002	EMZ4002-001Z	EARTH PLATE	
	EP003	EMZ4002-001Z	EARTH PLATE	
	EP004	EMZ4002-001Z	EARTH PLATE	
	FW901	EWR33B-08SST	FLAT WIRE A 3PIN	
	FW903	EWR33B-45SST	FLAT WIRE A 6PIN	
	HS802	E70306-001	HEAT SINK	
	HS805	E70306-001	HEAT SINK	
	JB101	EMV5140-015	CONNECT TER 15PIN	
	PA051	EWS293-0135	SOCKET WIRE 3PIN	
	PA052	EWS268-A416	SOCKET WIRE 8PIN	
	PA808	VMC0178-003	CONNECT TER 3PIN	
	PA809	VMC0178-003	CONNECT TER 3PIN	
	PB052	VMC0075-008N	CONNECT TER 8PIN	
	PB053	EMV5109-003A	MALE CONNec 3PIN	
	PB302	EMV5125-014	MALE CONNec 14PIN	
	PB441	EMV7123-023	MALE CONNec 23PIN	
	PB442	EMV5125-006	CONNECT TER 6PIN	
	PB562	EMV5125-010	MALE CONNec 10PIN	
	PB601	EMV5125-016	CONNECT TER 16PIN	
	PB602	EMV5140-015	CONNECT TER 15PIN	
	PB805	EMV5125-012	CONNECT TER 12PIN	
	RY011	ESK7D24-2120	RELAY	
	RY901	ESK7D24-2120	RELAY	
	ST011	EMB90TV-601G	SPEAKER TER	
	ST901	EMB90TV-806A	SPEAKER TER	
	TP751	QMV5005-004K	PLUG ASSY 4PIN	

Δ : SAFETY PARTS

■ ENC-115 □ Input Selector & Power Supply PC Board Assy

Note: ENC-115 ☐ varies according to the areas employed. See note (2) when placing an order.



Note (2)

PC Board Ass'y	Version	Designated Areas
ENC-115 E	J	the U.S.A.
ENC-115 F	C	Canada

Transistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q341	2SD2144S(VW)	SI. TRANSIST ROHM	
	Q342	2SD2144S(VW)	SI. TRANSIST ROHM	
	Q453	2SD2144S(VW)	SI. TRANSIST ROHM	
	Q454	2SD2144S(VW)	SI. TRANSIST ROHM	
	Q455	DTA144ES	DIGITAL TRA ROHM	
	Q456	2SD2144S(VW)	SI. TRANSIST ROHM	
	Q457	2SD2144S(VW)	SI. TRANSIST ROHM	
	Q561	2SC458(C,D)	SI. TRANSIST HITACHI	
	Q562	2SC458(C,D)	SI. TRANSIST HITACHI	
	Q563	2SA933S(RS)	SI. TRANSIST	
	Q564	2SA933S(RS)	SI. TRANSIST	
	Q581	DTC114YS	DIGITAL TRA ROHM	
	Q601	2SD655(E,F)	SI. TRANSIST HITACHI	
	Q602	2SD655(E,F)	SI. TRANSIST HITACHI	
	Q603	DTC144ES	DIGITAL TRA ROHM	
	Q604	DTC144ES	DIGITAL TRA ROHM	
	Q605	DTA144ES	DIGITAL TRA ROHM	
	Q851	2SC2240(GR,BL)	SI. TRANSIST TOSHIBA	
	Q852	2SC2235(O,Y)	SI. TRANSIST TOSHIBA	
	Q853	DTC143TS	DIGITAL TRA ROHM	
	Q855	2SA965(Y)	SI. TRANSIST TOSHIBA	

Δ : SAFETY PARTS

I.C.s

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC301	NJM4580DD	I.C.(MONO-AN DAINICHI	
	IC311	BA15218N	I.C.(MONO-AN ROHM	
	IC321	TC9274N-007	I.C.(M) TOSHIBA	
	IC341	TC9176P	I.C.(DIGI-MO TOSHIBA	
	IC342	BA15218N	I.C.(MONO-AN ROHM	
	IC361	LB1639-CV	I.C.(DIGI-OT SANYO	
	IC561	NJM2246D	I.C.(MONO-AN DAINICHI	
	IC601	NJM2177L	I.C.(MONO-AN DAINICHI	
	IC602	MS0198P	I.C.(DIGI-MO MITSUBISHI	
	IC604	NJM78M05FA	I.C.(MONO-AN DAINICHI	
	IC605	NUJ3715L	I.C.(MONO-AN DAINICHI	

Δ : SAFETY PARTS

Diodes

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	D275	1SS133	SI. DIODE ROHM	
	D276	1SS133	SI. DIODE ROHM	
	D360	1SR139-200	SI. DIODE ROHM	
	D401	1SS133	SI. DIODE ROHM	
	D649	MTZ6.2JC	ZENER DIODE ROHM	
Δ	D801	30D2FC	GE. DIODE NIHONINTER	
Δ	D802	30D2FC	GE. DIODE NIHONINTER	
Δ	D803	30D2FC	GE. DIODE NIHONINTER	
Δ	D804	30D2FC	GE. DIODE NIHONINTER	
	D857	MTZ6.2JC	ZENER DIODE ROHM	
	D858	1SS133	SI. DIODE ROHM	
	D864	MTZ5.6JC	ZENER DIODE ROHM	
	D866	MTZ10JC	ZENER DIODE ROHM	
	D867	MTZ16JC	ZENER DIODE ROHM	
	D870	1SS133	SI. DIODE ROHM	
	D871	1SR139-200	SI. DIODE ROHM	
	D872	1SR139-200	SI. DIODE ROHM	
	D873	1SR139-200	SI. DIODE ROHM	
	D874	1SR139-200	SI. DIODE ROHM	

Δ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
Δ	C001	QCZ9019-472	4700PF 50V C.CAPACITO	
	C261	QCS31HJ-561Z	560PF 50V CER.CAPACI	
	C301	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C302	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C303	QCS31HJ-101Z	100PF 50V CER.CAPACI	
	C304	QCS31HJ-101Z	100PF 50V CER.CAPACI	
	C305	QFLB1HJ-182	1800PF 50V MYLAR CAPA	
	C306	QFLB1HJ-182	1800PF 50V MYLAR CAPA	
	C307	QFLB1HJ-682	6800PF 50V MYLAR CAPA	
	C308	QFLB1HJ-682	6800PF 50V MYLAR CAPA	
	C309	QCS31HJ-101Z	100PF 50V CER.CAPACI	
	C310	QCS31HJ-101Z	100PF 50V CER.CAPACI	
	C311	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C312	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C313	QETB1AM-107	100MF 10V AL E.CAPAC	
	C314	QETB1AM-107	100MF 10V AL E.CAPAC	
	C315	QETB1CM-476	47MF 16V AL E.CAPAC	
	C316	QETB1CM-476	47MF 16V AL E.CAPAC	
	C319	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C320	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C321	QETB1EM-226	22MF 25V AL E.CAPAC	
	C322	QETB1EM-226	22MF 25V AL E.CAPAC	
	C331	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C341	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C342	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C343	QETB1HM-105	1MF 50V AL E.CAPAC	
	C344	QETB1HM-105	1MF 50V AL E.CAPAC	
	C345	QETB1EM-106	10MF 25V AL E.CAPAC	
	C346	QETB1EM-106	10MF 25V AL E.CAPAC	
	C347	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C348	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C351	QETB1EM-226	22MF 25V AL E.CAPAC	
	C352	QETB1EM-226	22MF 25V AL E.CAPAC	
	C353	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C354	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C361	QETB1EM-106	10MF 25V AL E.CAPAC	
	C362	QETB1EM-106	10MF 25V AL E.CAPAC	
	C371	QCY21HK-331	330PF 50V CER.CAPACI	
	C372	QCY21HK-331	330PF 50V CER.CAPACI	
	C373	QETB1AM-107	100MF 10V AL E.CAPAC	
	C374	QCF31HP-473Z	0.047MF 50V CER.CAPACI	
	C375	QFLC1HJ-333ZM	0.033MF 50V MYLAR CAPA	
	C376	QFLC1HJ-333ZM	0.033MF 50V MYLAR CAPA	
	C377	QETB1HM-226E	22MF 50V E.CAPACITO	
	C453	QERS1HM-106	10MF 50V AL E.CAPAC	
	C454	QERS1HM-106	10MF 50V AL E.CAPAC	
	C561	QETB1CM-477M	470MF 16V E.CAPACITO	
	C562	QETB1CM-477M	470MF 16V E.CAPACITO	
	C563	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C571	QETB0JM-108N	1000MF 6.3V E.CAPACITO	
	C572	QETB0JM-108N	1000MF 6.3V E.CAPACITO	
	C573	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C574	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C601	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C602	QFV81HJ-224	0.22MF 50V THIN FILM	
	C603	QFV81HJ-224	0.22MF 50V THIN FILM	
	C604	QFV81HJ-224	0.22MF 50V THIN FILM	
	C605	QFV81HJ-684	0.68MF 50V THIN FILM	
	C606	QFLC1HJ-562ZM	5600PF 50V MYLAR CAPA	
	C607	QFLC1HJ-472ZM	4700PF 50V METAL.MYLA	
	C608	QCB1HK-471Y	470PF 50V CER.CAPACI	
	C609	QETB1CM-227	220MF 16V AL E.CAPAC	
	C610	QFLC1HJ-473ZM	0.047MF 50V METAL.MYLA	
	C611	QFLC1HJ-562ZM	5600PF 50V MYLAR CAPA	
	C612	QETB1HM-106	10MF 50V E.CAPACITO	
	C613	QETB1HM-106	10MF 50V E.CAPACITO	
	C614	QETB1HM-106	10MF 50V E.CAPACITO	
	C615	QFV81HJ-224	0.22MF 50V THIN FILM	
	C616	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C617	QETB1HM-106	10MF 50V E.CAPACITO	
	C618	QETB1HM-106	10MF 50V E.CAPACITO	
	C619	QETB1HM-106	10MF 50V E.CAPACITO	
	C620	QETB1CM-226	22MF 16V E.CAPACITO	
	C621	QFN81HJ-472	4700PF 50V MYLAR CAPA	
	C622	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C623	QFV81HJ-224	0.22MF 50V THIN FILM	
	C624	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C625	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C626	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C627	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C628	QFLC1HJ-223ZM	0.022MF 50V METAL.MYLA	
	C629	QFLC1HJ-223ZM	0.022MF 50V METAL.MYLA	
	C630	QCB1HK-681Y	680PF 50V CER.CAPACI	
	C631	QFLC1HJ-473ZM	0.047MF 50V METAL.MYLA	
	C632	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C633	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C635	QETB1HM-106	10MF 50V E.CAPACITO	
	C636	QETB1HM-106	10MF 50V E.CAPACITO	
	C637	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C638	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C639	QFLC1HJ-473ZM	0.047MF 50V METAL.MYLA	
	C640	QCB1HK-681Y	680PF 50V CER.CAPACI	
	C641	QEB1EM-226Z	22MF 25V LLC E.CAPA	
	C642	QETB1EM-106	10MF 25V AL E.CAPAC	
	C645	QCF21HP-223A	0.022MF 50V CER.CAPACI	

Δ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	C646	QETB1CM-477M	470MF 16V E.CAPACITO	
	C649	QCB81HK-561Y	560PF 50V CER.CAPACI	
	C650	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C651	QETB1HM-105	1MF 50V AL E.CAPAC	
	C652	QFLC1HJ-332ZM	3300PF 50V METAL.MYLA	
	C653	QCB81HK-821	820PF 50V CER.CAPACI	
	C654	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C655	QETB1CM-476	47MF 16V AL E.CAPAC	
	C656	QFV71HJ-474ZM	0.47MF 50V THIN FILM	
	C657	QFV71HJ-474ZM	0.47MF 50V THIN FILM	
	C658	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C659	QFLC1HJ-562ZM	5600PF 50V MYLAR CAPA	
	C660	QCB81HK-561Y	560PF 50V CER.CAPACI	
	C661	QETB1HM-105	1MF 50V AL E.CAPAC	
	C662	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C663	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C664	QETB1CM-107	100MF 16V AL E.CAPAC	
	C665	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C666	QCE2020-155	1.5MF 25V CER.RESIST	
	C670	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C671	QETB1HM-475E	4.7MF 50V E.CAPACITO	
	C801	EEW6315-878E	8700MF E.CAPACITO	
	C802	EEW6315-878E	8700MF E.CAPACITO	
	C805	QCE22HP-103A	0.01MF 500V CER.CAPACI	
	C806	QCE22HP-103A	0.01MF 500V CER.CAPACI	
	C807	QCE22HP-103A	0.01MF 500V CER.CAPACI	
	C810	QFLC1HJ-104ZM	0.1MF 50V MYLAR CAPA	
	C850	QETB1CM-476	47MF 16V AL E.CAPAC	
	C851	QFN82AK-472	4700PF 100V METAL.MYLA	
	C852	QETB1EM-227	220MF 25V AL E.CAPAC	
	C857	QFLC1HJ-473ZM	0.047MF 50V METAL.MYLA	
	C858	QFLC1HJ-473ZM	0.047MF 50V METAL.MYLA	
	C861	QCF21HP-472	4700PF 50V CER.CAPACI	
	C869	QETB1HM-476	47MF 50V E.CAPACITO	
	C870	QCF21HP-472	4700PF 50V CER.CAPACI	
	C871	QETB1EM-107	100MF 25V AL E.CAPAC	

Δ SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	R384	QRD161J-471	470 1/6W CARBON RES	
	R385	QRD161J-471	470 1/6W CARBON RES	
	R386	QRD161J-471	470 1/6W CARBON RES	
	R387	QRD161J-471	470 1/6W CARBON RES	
	R388	QRD161J-471	470 1/6W CARBON RES	
	R389	QRD161J-471	470 1/6W CARBON RES	
	R390	QRD161J-471	470 1/6W CARBON RES	
	R391	QRD161J-471	470 1/6W CARBON RES	
	R392	QRD161J-471	470 1/6W CARBON RES	
	R393	QRD161J-471	470 1/6W CARBON RES	
	R394	QRD161J-471	470 1/6W CARBON RES	
	R395	QRD161J-471	470 1/6W CARBON RES	
	R396	QRD161J-471	470 1/6W CARBON RES	
	R453	QRD167J-152	1.5K 1/6W CARBON RES	
	R454	QRD167J-152	1.5K 1/6W CARBON RES	
	R455	QRD161J-103	10K 1/6W CARBON RES	
	R456	QRD161J-103	10K 1/6W CARBON RES	
	R457	QRD161J-103	10K 1/6W CARBON RES	
	R458	QRD161J-103	10K 1/6W CARBON RES	
	R459	QRD167J-152	1.5K 1/6W CARBON RES	
	R460	QRD167J-152	1.5K 1/6W CARBON RES	
	R561	QRD161J-750	75 1/6W CARBON RES	
	R562	QRD167J-680	68 1/6W CARBON RES	
	R563	QRD161J-750	75 1/6W CARBON RES	
	R564	QRD161J-750	75 1/6W CARBON RES	
	R565	QRD161J-473	47K 1/6W CARBON RES	
	R566	QRD161J-473	47K 1/6W CARBON RES	
	R567	QRD161J-331	330 1/6W CARBON RES	
	R568	QRD161J-331	330 1/6W CARBON RES	
	R569	QRD167J-152	1.5K 1/6W CARBON RES	
	R570	QRD167J-152	1.5K 1/6W CARBON RES	
	R571	QRD167J-151	150 1/6W CARBON RES	
	R572	QRD167J-151	150 1/6W CARBON RES	
	R573	QRD167J-152	1.5K 1/6W CARBON RES	
	R575	QRD161J-271	270 1/6W CARBON RES	
	R576	QRD161J-271	270 1/6W CARBON RES	
	R581	QRD161J-473	47K 1/6W CARBON RES	
	R583	QRD167J-152	1.5K 1/6W CARBON RES	
	R601	QRD167J-334	330K 1/6W CARBON RES	
	R602	QRD167J-822	8.2K 1/6W CARBON RES	
	R603	QRD167J-822	8.2K 1/6W CARBON RES	
	R604	QRD167J-822	8.2K 1/6W CARBON RES	
	R605	QRD167J-153	15K 1/6W CARBON RES	
	R606	QRD161J-104	100K 1/6W CARBON RES	
	R607	QRD161J-104	100K 1/6W CARBON RES	
	R608	QRD161J-752	7.5K 1/6W CARBON RES	
	R609	QRD167J-153	15K 1/6W CARBON RES	
	R610	QRD161J-473	47K 1/6W CARBON RES	
	R611	QRD167J-223	22K 1/6W CARBON RES	
	R612	QRD167J-223	22K 1/6W CARBON RES	
	R613	QRD161J-473	47K 1/6W CARBON RES	
	R614	QRZ0077-680	68 1/4W FUSIBLE RE	
	R615	QRD167J-153	15K 1/6W CARBON RES	
	R616	QRD161J-752	7.5K 1/6W CARBON RES	
	R617	QRD161J-475	4.7M 1/6W CARBON RES	
	R621	QRD161J-104	100K 1/6W CARBON RES	
	R631	QRD161J-392	3.9K 1/6W CARBON RES	
	R632	QRD167J-562	5.6K 1/6W CARBON RES	
	R633	QRD167J-223	22K 1/6W CARBON RES	
	R634	QRD161J-473	47K 1/6W CARBON RES	
	R635	QRD167J-223	22K 1/6W CARBON RES	
	R636	QRD161J-473	47K 1/6W CARBON RES	
	R641	QRD161J-103	10K 1/6W CARBON RES	
	R642	QRD161J-103	10K 1/6W CARBON RES	
	R643	QRD161J-103	10K 1/6W CARBON RES	
	R644	QRD161J-103	10K 1/6W CARBON RES	
	R650	QRD167J-822	8.2K 1/6W CARBON RES	
	R651	QRD161J-273	27K 1/6W CARBON RES	
	R652	QRD167J-153	15K 1/6W CARBON RES	
	R653	QRD167J-153	15K 1/6W CARBON RES	
	R654	QRD161J-103	10K 1/6W CARBON RES	
	R655	QRD167J-153	15K 1/6W CARBON RES	
	R656	QRD161J-103	10K 1/6W CARBON RES	
	R657	QRD167J-153	15K 1/6W CARBON RES	
	R658	QRD161J-105	1M 1/6W CARBON RES	
	R659	QRZ0077-680	68 1/4W FUSIBLE RE	
	R663	QRD161J-222	2.2K 1/6W CARBON RES	
	R805	QRD14CJ-822S	8.2K 1/4W UNF. CARBON	
	R806	QRD14CJ-391SX	390 1/4W UNF. CARBON	
	R841	QRD161J-104	100K 1/6W CARBON RES	
	R842	QRD161J-104	100K 1/6W CARBON RES	
	R860	QRD14CJ-100SX	10 1/4W UNF. CARBON	
	R861	QRD14CJ-100SX	10 1/4W UNF. CARBON	
	R863	QRD161J-821	820 1/6W CARBON RES	
	R871	QRX022J-2R2AM	2.2 2W METAL FILM	
	R872	QRX022J-2R2AM	2.2 2W METAL FILM	
	R882	QRD14CJ-220S	22 1/4W UNF. CARBON	
	R937	QRD161J-104	100K 1/6W CARBON RES	

Δ SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	R001	QRC128K-275EM	2.7M 1/2W COMPOSITIO	
	R281	QRD161J-103	10K 1/6W CARBON RES	
	R282	QRD161J-512	5.1K 1/6W CARBON RES	
	R283	QRD161J-103	10K 1/6W CARBON RES	
	R284	QRD161J-512	5.1K 1/6W CARBON RES	
	R301	QRD161J-222	2.2K 1/6W CARBON RES	
	R302	QRD161J-222	2.2K 1/6W CARBON RES	
	R303	QRD161J-473	47K 1/6W CARBON RES	
	R304	QRD161J-473	47K 1/6W CARBON RES	
	R305	QRD161J-621	620 1/6W CARBON RES	
	R306	QRD161J-621	620 1/6W CARBON RES	
	R307	QRD161J-393	39K 1/6W CARBON RES	
	R308	QRD161J-393	39K 1/6W CARBON RES	
	R309	QRD161J-474	470K 1/6W CARBON RES	
	R310	QRD161J-474	470K 1/6W CARBON RES	
	R311	QRD161J-104	100K 1/6W CARBON RES	
	R312	QRD161J-104	100K 1/6W CARBON RES	
	R313	QRD14CJ-391SX	390 1/4W UNF. CARBON	
	R314	QRD14CJ-391SX	390 1/4W UNF. CARBON	
	R315	QRD161J-104	100K 1/6W CARBON RES	
	R316	QRD161J-104	100K 1/6W CARBON RES	
	R317	QRD161J-104	100K 1/6W CARBON RES	
	R318	QRD161J-104	100K 1/6W CARBON RES	
	R321	QRZ0077-680	68 1/4W FUSIBLE RE	
	R322	QRZ0077-680	68 1/4W FUSIBLE RE	
	R339	QRD161J-104	100K 1/6W CARBON RES	
	R340	QRD161J-104	100K 1/6W CARBON RES	
	R341	QRD161J-104	100K 1/6W CARBON RES	
	R342	QRD161J-104	100K 1/6W CARBON RES	
	R343	QRD161J-105	1M 1/6W CARBON RES	
	R344	QRD161J-105	1M 1/6W CARBON RES	
	R345	QRD161J-303Y	30K 1/6W CARBON RES	
	R346	QRD161J-303Y	30K 1/6W CARBON RES	
	R347	QRD161J-203	20K 1/6W CARBON RES	
	R348	QRD161J-103	10K 1/6W CARBON RES	
	R360	QVDC94Z-E15D	100K VARIABLE	
	R361	QRZ0077-680	68 1/4W FUSIBLE RE	
	R362	QRZ0077-680	68 1/4W FUSIBLE RE	
	R363	QRZ0077-680	68 1/4W FUSIBLE RE	
	R364	QRZ0077-680	68 1/4W FUSIBLE RE	
	R371	QRD167J-223	22K 1/6W CARBON RES	
	R372	QRD167J-223	22K 1/6W CARBON RES	
	R373	QRD167J-223	22K 1/6W CARBON RES	
	R374	QRD167J-223	22K 1/6W CARBON RES	
	R375	QRD161J-222	2.2K 1/6W CARBON RES	
	R376	QRD161J-222	2.2K 1/6W CARBON RES	
	R377	QRD161J-202	2K 1/6W CARBON RES	
	R381	QRD161J-471	470 1/6W CARBON RES	
	R382	QRD161J-471	470 1/6W CARBON RES	
	R383	QRD161J-471	470 1/6W CARBON RES	

Δ SAFETY PARTS

Others

ITEM	PART NUMBER	DESCRIPTION	AREA
	EMW10463-006	CIR. BOARD	
	QWE690-08RR	VINYL WIRE	
	QWE693-08RR	VINYL WIRE	
	QWE692-08RR	VINYL WIRE	
	QWE881-16RR	VINYL WIRE	
	QWE886-20RR	VINYL WIRE	
J300	EMN00TV-422AJ2	PIN JACK 4PIN	
J301	EMN00TV-615AJ2	PIN JACK 6PIN	
J302	EMN00TV-422AJ2	PIN JACK 4PIN	
J303	EMN00TV-422AJ2	PIN JACK 4PIN	
J561	EMN00VY-406AJ1	PIN JACK 4PIN	
T002	ETP1000-41JA	POWER TRASN	
AC001	QMC4002-E02S	AC OUTLET	
EP	EMZ4002-001Z	EARTH PLATE	
EP001	EMZ4002-001Z	EARTH PLATE	
FC101	VMZ0087-001Z	FUSE HOLDER	
FC102	VMZ0087-001Z	FUSE HOLDER	
FC801	VMZ0087-001Z	FUSE HOLDER	
FC802	VMZ0087-001Z	FUSE HOLDER	
FC803	VMZ0087-001Z	FUSE HOLDER	

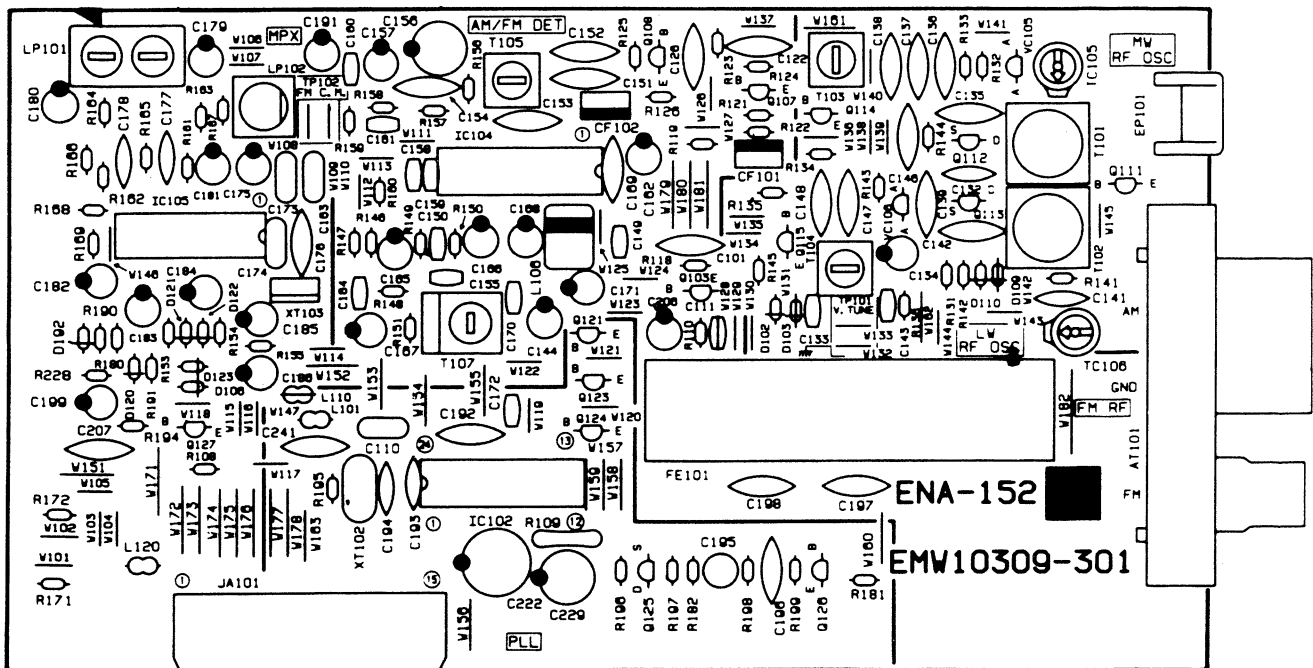
△ : SAFETY PARTS

Others

ITEM	PART NUMBER	DESCRIPTION	AREA
FC804	VMZ0087-001Z	FUSE HOLDER	
FW802	EW368-08SST	FLAT WIRE A 6PIN	
PA053	EMS293-0133	SOCKET WIRE 3PIN	
PA302	EMV7125-014R	MALE CONNEX 14PIN	
PA561	EMV7125-010R	MALE CONNEX 10PIN	
PA601	EMV7125-016R	CONNECT TER 16PIN	
PA602	EMV7140-L15R	CONNECT TER 15PIN	
PA806	VMC0075-008N	CONNECT TER 8PIN	
PB051	EMV5109-003A	MALE CONNEX 3PIN	
PB804	EMV5125-012	CONNECT TER 12PIN	
PB808	VMC0177-003	CONNECT TER 3PIN	
PB809	VMC0177-003	CONNECT TER 3PIN	
RY001	ESK1D12-118J1	RELAY	
TA001	EMZ4001-001	TAB	
TA002	EMZ4001-001	TAB	
XT651	ECXP3R3-001ZA	CRYSTAL	

△ : SAFETY PARTS

■ ENA-152 □ Tuner PC Board Assy



Transistors

ITEM	PART NUMBER	DESCRIPTION	AREA
Q103	2SC461	SI. TRANSIST	
Q107	2SC535	SI. TRANSIST HITACHI	
Q108	2SC461	SI. TRANSIST	
Q112	2SK301(P,Q)	F.E.T. MATSUSHITA	
Q123	DTA144ES	DIGITAL TRA ROHM	
Q124	DTA144ES	DIGITAL TRA ROHM	
Q125	2SK301(P,Q)	F.E.T. MATSUSHITA	
Q126	2SC458(C,D)	SI. TRANSIST HITACHI	
Q127	DTC144ES	DIGITAL TRA ROHM	

△ : SAFETY PARTS

Diodes

ITEM	PART NUMBER	DESCRIPTION	AREA
D106	1SS119	SI. DIODE	
D120	1SS119	SI. DIODE	
D121	1SS119	SI. DIODE	
D122	1SS119	SI. DIODE	
D123	1SS119	SI. DIODE	
D192	MTZ5.1JC	ZENER DIODE ROHM	
VC105	SVC342(L)	VARI-CAPA D SANYO	

△ : SAFETY PARTS

I.C.s

ITEM	PART NUMBER	DESCRIPTION	AREA
IC102	LC7218	I.C. (DIGI-MO)	
IC104	LA1266A	I.C. (MONO-AN SANYO)	
IC105	LA3401	I.C. (MONO-AN SANYO)	

△ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
	C101	QCF21HP-223A	0.022MF	50V	CER.CAPACI	
	C110	QCZ0202-155	1.5MF	25V	CER.RESIST	
	C122	QCF21HP-223A	0.022MF	50V	CER.CAPACI	
	C126	QCF21HP-223A	0.022MF	50V	CER.CAPACI	
	C132	QCS31HJ-561Z	560PF	50V	CER.CAPACI	
	C133	QCHB1EZ-223	0.022MF	25V	CER.CAPACI	
	C134	QETB1EM-106	10MF	25V	AL E.CAPAC	
	C135	QCC11EM-223V	0.022MF	25V	CER.CAPACI	
	C136	QCT25CH-180Z	18PF	50V	CER.CAPACI	
	C137	QCT26CH-221	220PF	50V	CER.CAPACI	
	C138	QCT26CH-241	240PF	50V	CER.CAPACI	
	C149	QCHB1EZ-223	0.022MF	25V	CER.CAPACI	
	C150	QCHB1EZ-223	0.022MF	25V	CER.CAPACI	
	C151	QCF21HP-223A	0.022MF	50V	CER.CAPACI	
	C152	QCF21HP-223A	0.022MF	50V	CER.CAPACI	
	C153	QCC11EM-223V	0.022MF	25V	CER.CAPACI	
	C154	QCF21HP-223A	0.022MF	50V	CER.CAPACI	
	C155	QCHB1EZ-223	0.022MF	25V	CER.CAPACI	
	C156	QETB1CM-227	220MF	16V	AL E.CAPAC	
	C157	QETB1HM-474	0.47MF	50V	ELECTRO	
	C158	QCB1HK-101Y	100PF	50V	CER.CAPACI	
	C159	QCB1HK-101Y	100PF	50V	CER.CAPACI	
	C160	QCB1HK-221Y	220PF	50V	CER.CAPACI	
	C161	QCHB1EZ-223	0.022MF	25V	CER.CAPACI	
	C162	QETB1EM-106	10MF	25V	AL E.CAPAC	
	C163	QFLC1HJ-102ZM	1000PF	50V	MYLAR CAPA	
	C164	QCHB1EZ-223	0.022MF	25V	CER.CAPACI	
	C165	QETB1HM-474	0.47MF	50V	ELECTRO	
	C166	QETB1HM-225	2.2MF	50V	AL E.CAPAC	
	C167	QETB1HM-225	2.2MF	50V	AL E.CAPAC	
	C168	QETB1HM-475E	4.7MF	50V	E.CAPACITO	
	C169	QCF21HP-223A	0.022MF	50V	CER.CAPACI	
	C170	QCHB1EZ-223	0.022MF	25V	CER.CAPACI	
	C171	QETB1EM-106	10MF	25V	AL E.CAPAC	
	C172	QCVB1CM-103Y	0.01MF	16V	CER.CAPACI	
	C173	QFLC1HJ-393ZM	0.039MF	50V	METAL.MYLA	
	C174	QFLC1HJ-473ZM	0.047MF	50V	METAL.MYLA	
	C175	QETB1EM-106	10MF	25V	AL E.CAPAC	
	C176	QCY31HK-102Z	1000PF	50V	CER.CAPACI	
	C177	QCS31HJ-821Z	820PF	50V	CER.CAPACI	
	C178	QCS31HJ-821Z	820PF	50V	CER.CAPACI	
	C179	QETB1HM-225	2.2MF	50V	AL E.CAPAC	
	C180	QETB1HM-225	2.2MF	50V	AL E.CAPAC	
	C181	QETB1EM-106	10MF	25V	AL E.CAPAC	
	C182	QETB1HM-225	2.2MF	50V	AL E.CAPAC	
	C183	QETB1HM-105	1MF	50V	AL E.CAPAC	
	C184	QETB1HM-105	1MF	50V	AL E.CAPAC	
	C185	QETB1HM-225	2.2MF	50V	AL E.CAPAC	
	C186	QETB1HM-474	0.47MF	50V	ELECTRO	
	C191	QETB1HM-475E	4.7MF	50V	E.CAPACITO	
	C192	QCC31EM-473ZV	0.047MF	25V	CER.CAPACI	
	C193	QCS21HJ-180A	18PF	50V	CER.CAPACI	
	C194	QCS21HJ-180A	18PF	50V	CER.CAPACI	
	C195	QENB1HM-474	0.47MF	50V	NP E.CAPAC	
	C196	QCY31HK-102Z	1000PF	50V	CER.CAPACI	
	C197	QCF21HP-223A	0.022MF	50V	CER.CAPACI	
	C198	QCF31HP-103Z	0.01MF	50V	CER.CAPACI	
	C199	QETB1HM-475E	4.7MF	50V	E.CAPACITO	
	C207	QCF21HP-223A	0.022MF	50V	CER.CAPACI	
	C222	QETB1CM-477M	470MF	16V	E.CAPACITO	
	C229	QETB1CM-227	220MF	16V	AL E.CAPAC	
	C241	QCF21HP-223A	0.022MF	50V	CER.CAPACI	

Δ : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
	R157	QRD161J-103	10K	1/6W	CARBON RES	
	R158	QRD161J-183	18K	1/6W	CARBON RES	
	R159	QRD161J-561	560	1/6W	CARBON RES	
	R160	QRD167J-562	5.6K	1/6W	CARBON RES	
	R161	QRD161J-823	82K	1/6W	CARBON RES	
	R162	QRD161J-823	82K	1/6W	CARBON RES	
	R163	QRD161J-472	4.7K	1/6W	CARBON RES	
	R164	QRD161J-472	4.7K	1/6W	CARBON RES	
	R165	QRD161J-184	180K	1/6W	CARBON RES	
	R166	QRD161J-184	180K	1/6W	CARBON RES	
	R167	QRD161J-393	39K	1/6W	CARBON RES	
	R168	QRD161J-103	10K	1/6W	CARBON RES	
	R169	QRD161J-103	10K	1/6W	CARBON RES	
	R171	QRD167J-682	6.8K	1/6W	CARBON RES	
	R172	QRD167J-682	6.8K	1/6W	CARBON RES	
	R180	QRD161J-103	10K	1/6W	CARBON RES	
	R181	QRD161J-222	2.2K	1/6W	CARBON RES	
	R182	QRD161J-181	180	1/6W	CARBON RES	
	R190	QRD161J-103	10K	1/6W	CARBON RES	
	R191	QRD167J-562	5.6K	1/6W	CARBON RES	
	R194	QRD161J-103	10K	1/6W	CARBON RES	
	R195	QRD161J-473	47K	1/6W	CARBON RES	
	R196	QRD161J-103	10K	1/6W	CARBON RES	
	R197	QRD161J-222	2.2K	1/6W	CARBON RES	
	R198	QRD167J-332	3.3K	1/6W	CARBON RES	
	R199	QRD161J-472	4.7K	1/6W	CARBON RES	
	R228	QRD161J-222	2.2K	1/6W	CARBON RES	

Δ : SAFETY PARTS

Others

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
		EMW10309-301A	PRINTED BOA			
	L101	EQL4007-1R0	INDUCTOR			
	L106	EQL3001-102K	INDUCTOR			
	L120	EQL4007-1R0	INDUCTOR			
	T101	EQR1111-014	RF COIL			
	T103	EQR1207-017	RF COIL			
	T105	EQT2140-017	I.F. TRANSFO			
	T107	ECB1560-010	CERAMIC FIL			
	AT101	EMB41YV-301K	ANTENNA TER			
	CF101	ECB2123-006R	CERAMIC FIL			
	CF102	ECB2123-006R	CERAMIC FIL			
	EP101	E70225-001	EARTH PLATE			
	EP102	E70225-001	EARTH PLATE			
	FE101	EAF2203-004	FRONT END			
	JA101	EMV7140-L15R	CONNECT TER 15PIN			
	LP101	EQF0101-002	LOWPASS FIL			
	TC105	ENZ1003-006	TRIMMER CAP			
	XT102	ECX0007-200KC	CRYSTAL			
	XT103	ECX0000-456KR	CERAMIC RES			

Δ : SAFETY PARTS

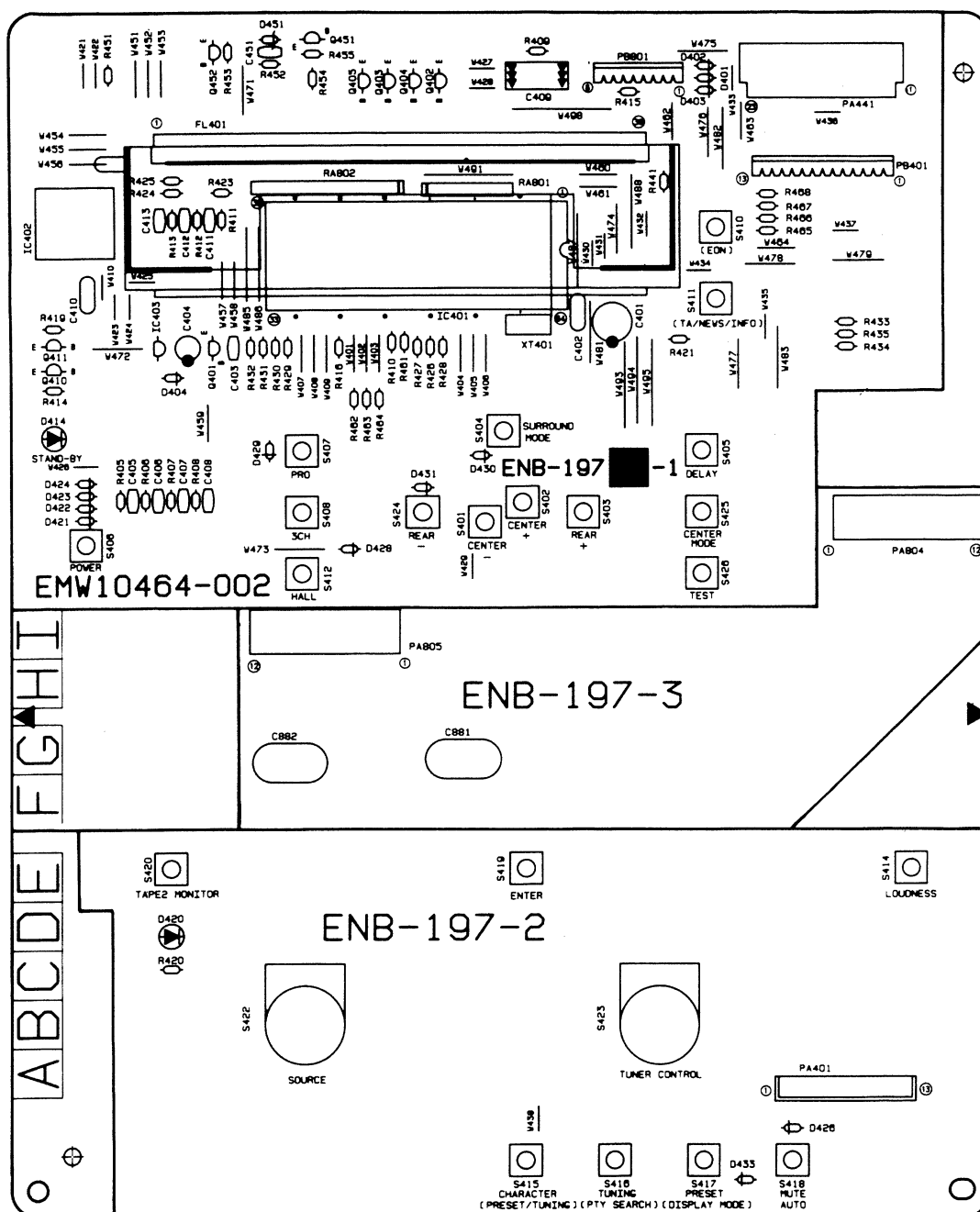
Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
	R108	QRD161J-103	10K	1/6W	CARBON RES	
	R109	QRD14CJ-680SX	68	1/4W	UNF.CARBON	
	R118	QRD167J-332	3.3K	1/6W	CARBON RES	
	R119	QRD161J-221	220	1/6W	CARBON RES	
	R121	QRD161J-391	390	1/6W	CARBON RES	
	R122	QRD167J-272	2.7K	1/6W	CARBON RES	
	R123	QRD161J-102	1K	1/6W	CARBON RES	
	R124	QRD161J-681	680	1/6W	CARBON RES	
	R125	QRD167J-332	3.3K	1/6W	CARBON RES	
	R126	QRD161J-221	220	1/6W	CARBON RES	
	R131	QRD161J-331	330	1/6W	CARBON RES	
	R132	QRD161J-103	10K	1/6W	CARBON RES	
	R133	QRD161J-473	47K	1/6W	CARBON RES	
	R135	QRD161J-470	47	1/6W	CARBON RES	
	R136	QRD161J-103	10K	1/6W	CARBON RES	
	R146	QRD167J-560	56	1/6W	CARBON RES	
	R147	QRD161J-103	10K	1/6W	CARBON RES	
	R148	QRD161J-103	10K	1/6W	CARBON RES	
	R149	QRD167J-223	22K	1/6W	CARBON RES	
	R150	QRD161J-103	10K	1/6W	CARBON RES	
	R151	QRD161J-222	2.2K	1/6W	CARBON RES	
	R153	QRD161J-103	10K	1/6W	CARBON RES	
	R154	QRD161J-103	10K	1/6W	CARBON RES	
	R155	QRD167J-562	5.6K	1/6W	CARBON RES	
	R156	QRD167J-822	8.2K	1/6W	CARBON RES	

Δ : SAFETY PARTS

■ ENB-197 □ FL Display PC Board Assy

Note : ENB-197 □ varies according to the areas employed. See note (3) when placing an order.


Transistors

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q401	DTC114YS	DIGITAL TRA ROHM	
	Q402	DTC114YS	DIGITAL TRA ROHM	
	Q403	DTC114YS	DIGITAL TRA ROHM	
	Q404	DTC114YS	DIGITAL TRA ROHM	
	Q405	DTC114YS	DIGITAL TRA ROHM	
	Q410	DTC114YS	DIGITAL TRA ROHM	
	Q411	DTC114YS	DIGITAL TRA ROHM	
	Q451	2SC1740(R,S)	SI-TRANSIST ROHM	
	Q452	2SC1740(R,S)	SI-TRANSIST ROHM	

△ IS A SAFETY PARTS

I.C.s

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC401	MN171602JYN	I.C. INFRARED DE SANYO	
	IC402	SPS-420-1	I.C. (DIGI-MO MATSUSHITA	
	IC403	MN1281(P,Q)		

△ IS A SAFETY PARTS

Diodes

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	D401	1SS133	SI.DIODE ROHM	
	D402	1SS133	SI.DIODE ROHM	
	D403	1SS133	SI.DIODE ROHM	
	D404	1SS133	SI.DIODE ROHM	
	D414	SLR-54VC50F124	L.E.D. ROHM	
	D420	SLR-34VC3F	L.E.D. ROHM	
	D426	1SS133	SI.DIODE ROHM	
	D429	1SS133	SI.DIODE ROHM	
	D430	1SS133	SI.DIODE ROHM	
	D431	1SS133	SI.DIODE ROHM	
	D433	1SS133	SI.DIODE ROHM	
	D451	MTZ7.5JC	ZENER DIODE ROHM	

Δ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	C401	QEK61AM-2272M	220MF 10V AL E.CAPAC	
	C402	QC20202-155	1.5MF 25V CER.RESIST	
	C403	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C404	QEK51HM-225GE	2.2MF 50V AL E.CAPAC	
	C409	QEAD0HZ-4792B	47000MF E.CAPACITO	
	C411	QCGB1HK-102	1000PF 50V CER.CAPACI	
	C412	QCGB1HK-102	1000PF 50V CER.CAPACI	
	C413	QCGB1HK-102	1000PF 50V CER.CAPACI	
	C451	QCB1HK-331Y	330PF 50V CER.CAPACI	

Δ : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	R405	QRD161J-104	100K 1/6W CARBON RES	
	R406	QRD161J-104	100K 1/6W CARBON RES	
	R407	QRD161J-104	100K 1/6W CARBON RES	
	R408	QRD161J-104	100K 1/6W CARBON RES	
	R409	QRD161J-331	330 1/6W CARBON RES	
	R410	QRD161J-223	22K 1/6W CARBON RES	
	R411	QRD161J-104	100K 1/6W CARBON RES	
	R412	QRD161J-104	100K 1/6W CARBON RES	
	R413	QRD161J-104	100K 1/6W CARBON RES	
	R414	QRD161J-221	220 1/6W CARBON RES	
	R415	QRD161J-100	10 1/6W CARBON RES	
	R416	QRD161J-472	4.7K 1/6W CARBON RES	
	R419	QRD161J-103	10K 1/6W CARBON RES	
	R420	QRD161J-221	220 1/6W CARBON RES	
	R421	QRD161J-471	470 1/6W CARBON RES	
	R423	QRD161J-221	220 1/6W CARBON RES	
	R424	QRD161J-471	470 1/6W CARBON RES	
	R425	QRD161J-471	470 1/6W CARBON RES	
	R426	QRD161J-471	470 1/6W CARBON RES	
	R427	QRD161J-471	470 1/6W CARBON RES	
	R428	QRD161J-471	470 1/6W CARBON RES	
	R429	QRD161J-471	470 1/6W CARBON RES	
	R430	QRD161J-471	470 1/6W CARBON RES	
	R431	QRD161J-471	470 1/6W CARBON RES	
	R432	QRD161J-471	470 1/6W CARBON RES	
	R433	QRD161J-471	470 1/6W CARBON RES	
	R434	QRD161J-471	470 1/6W CARBON RES	
	R435	QRD161J-471	470 1/6W CARBON RES	
	R451	QRD161J-103	10K 1/6W CARBON RES	
	R452	QRD161J-473	47K 1/6W CARBON RES	
	R453	QRD161J-223	22K 1/6W CARBON RES	
	R454	QRD161J-471	470 1/6W CARBON RES	
	R455	QRD161J-103	10K 1/6W CARBON RES	
	R465	QRD161J-103	10K 1/6W CARBON RES	
	R466	QRD161J-103	10K 1/6W CARBON RES	
	R467	QRD161J-103	10K 1/6W CARBON RES	
	R468	QRD161J-103	10K 1/6W CARBON RES	
	RA801	QRB099J-104	100K 1/10W RESISTOR	
	RA802	QRB169J-104	100K 1/10W RESISTOR A	

Δ : SAFETY PARTS

Others

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMW10464-003	PRINTED BOA	
	S401	ESP0001-023M	TACT SWITCH CENTER -	
	S402	ESP0001-023M	TACT SWITCH CENTER +	
	S403	ESP0001-023M	TACT SWITCH REAR +	
	S404	ESP0001-023M	TACT SWITCH SURROUND	
	S405	ESP0001-023M	TACT SWITCH DELAY	
	S406	ESP0001-023M	TACT SWITCH POWER	
	S407	ESP0001-023M	TACT SWITCH PRO LOGIC	
	S408	ESP0001-023M	TACT SWITCH 3CH LOGIC	
	S412	ESP0001-023M	TACT SWITCH HALL	
	S414	ESP0001-023M	TACT SWITCH LOUDNESS	
	S415	ESP0001-023M	TACT SWITCH PRESET/TUNING	
	S416	ESP0001-023M	TACT SWITCH PTY SEARCH	
	S417	ESP0001-023M	TACT SWITCH DISPLAY MODE	
	S418	ESP0001-023M	TACT SWITCH FM MODE	
	S419	ESP0001-023M	TACT SWITCH ENTER	
	S420	ESP0001-023M	TACT SWITCH TAPE 2	
	S422	QSSJ4002-E01	SOURCE (JOG SW)	
	S423	QSSJ4002-E01	TUNER CONTROL (JOG SW)	
	S424	ESP0001-023M	TACT SWITCH REAR -	
	S425	ESP0001-023M	TACT SWITCH CENTER MODE	
	S426	ESP0001-023M	TACT SWITCH TEST	
	FH001	E309106-0015M	FL HOLDER	
	FL401	ELU0001-183	FLUORESCENT	
	FS001	E3400-444	FELT SPACER	
	FS002	E3400-444	FELT SPACER	
	PA401	EMV5109-013A	CONNECT TER 13PIN	
	PA441	EMV7123-023R	MALE CONNec 23PIN	
	PA804	EMV7125-012R	CONNECT TER 12PIN	
	PA805	EMV7125-012R	CONNECT TER 12PIN	
	PB401	EWS260-A413	SOCKET WIRE 13PIN	
	PB801	EWS268-A416	SOCKET WIRE 16PIN	
	XT401	ECXP6R0-001ZA	CRYSTAL	
		E408712-001	CONNECTING WIRE	

Δ : SAFETY PARTS

Accessories List

Symbol No.

M	2	M	M
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⚠	Item	Part Number	Part Name	Q'ty	Description	Area
	1	E30580-2167A	INSTRUCTION BOOK	1		C
		E30580-2165A	INSTRUCTION BOOK	1		J
	2	RM-SR517VU	WIRE-LESS REMOTE CONTROL	1		
	3	EWP502-001	FM FEEDER ANTENNA	1		
	4	EQB4001-015	LOOP ANTENNA	1		
	5	EMZ2001-014	ADAPTOR PLUG	1		
	6	R6PRPA-25TSA	DRY CELL	1		
	7	QPGA025-03505B	POLY BAG	1		
	-	BT-20025M	WARRANTY CARD	1		C
	-	BT20071B	SERVICE NETWORK	1		C
	-	BT-51006-1	REGISTER CARD	1		J
	-	BT-20044G	SAFETY SHEET	1		J

The Marks for Designated Areas

J the U.S.A.

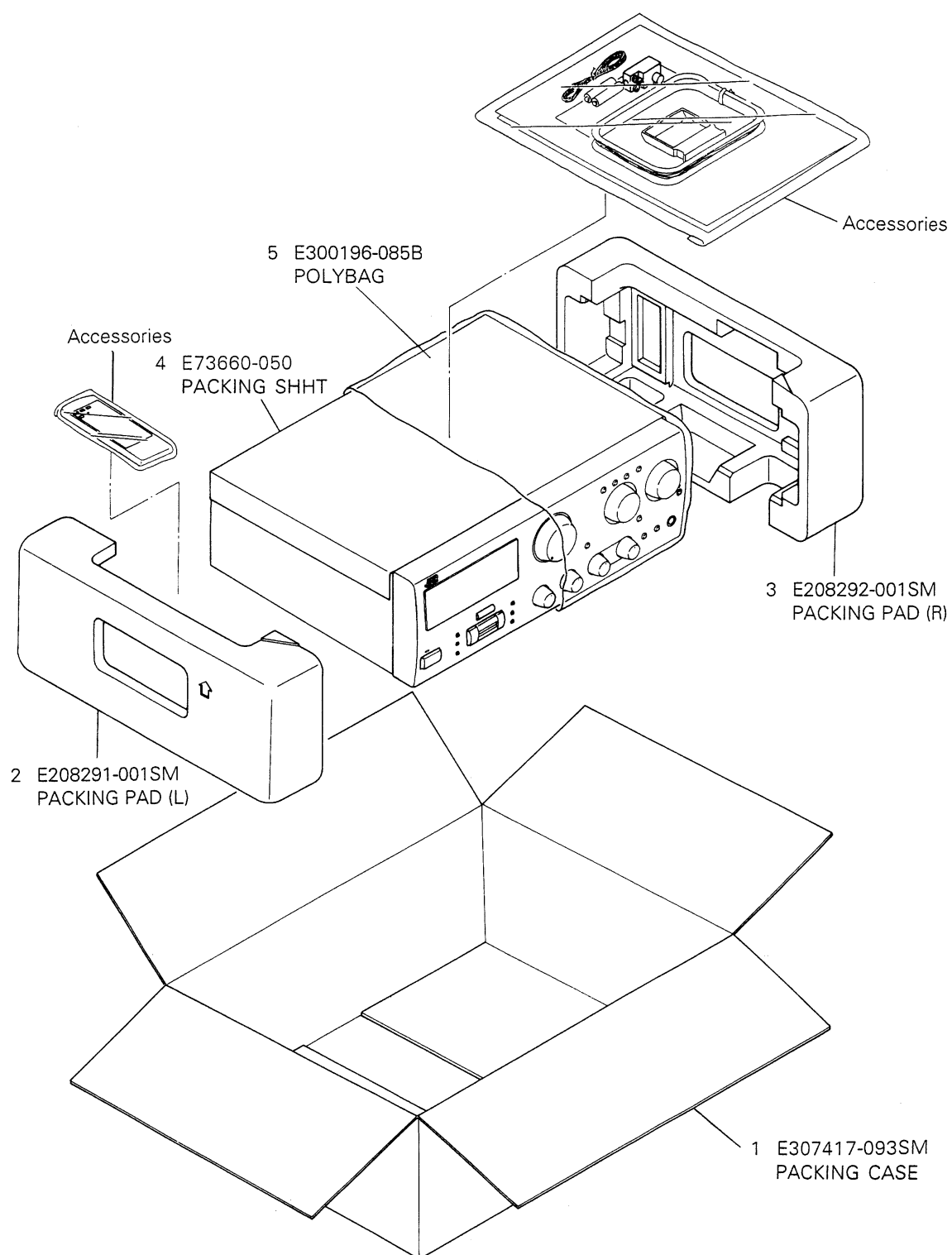
C ... Canada

No mark indicates all area.

Packing Materials and Part Numbers

 Symbol No.

M	3	M	M
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The Marks for Designated Areas

C Canada	J the U.S.A.	No mark indicates all area.
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— MEMO —