

JVC

SERVICE MANUAL

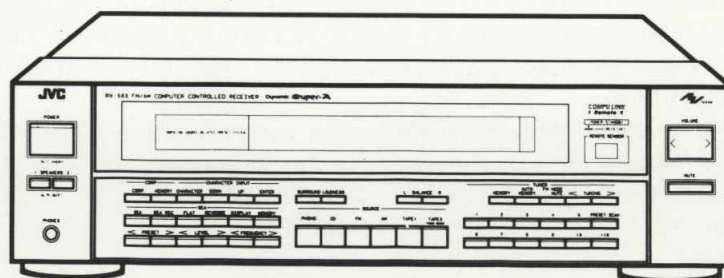
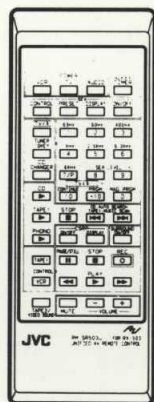
COMPUTER CONTROLLED RECEIVER

MODEL No. **RX-503BK**
RX-503LBK

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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. Service 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 manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product 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 ($\triangle$) 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 part 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.

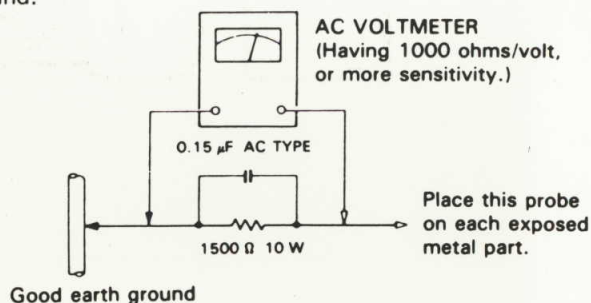
Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part 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 0.5 mA 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.

Specifications

AMPLIFIER SECTION

Output power: (CD IN→SP. OUT) 2-channel operation	: 80 watts per channel, min. RMS, both channels driven into 8 ohms from 20 Hz to 20 kHz, with no more than 0.03% total harmonic distortion.
Intermodulation distortion	: 0.03 % at 80 watts
Input sensitivity/impedance	
PHONO	: 2.5mV/47k ohms
TAPE 1 PLAY,	: 200 mV/47k ohms
TAPE 2/VIDEO SOUND PLAY, CD,	
Recording output level	: 200mV
Frequency response	
PHONO	
(RIAA equalization)	: 20 Hz — 20 kHz, ± 0.5 dB
TAPE 1 PLAY, CD,	: 10 Hz — 50 kHz, ± 1 dB
TAPE2/VIDEO SOUND PLAY	
Signal-to-noise ratio	
PHONO	: 71 dB ('66 IHF) 78 dB ('78 IHF, REC OUT)
TAPE 1 PLAY, CD,	: 91 dB ('66 IHF), 85 dB ('78 IHF)
TAPE2/VIDEO SOUND PLAY	

S.E.A. SECTION

Center frequencies	: 63 Hz, 160 Hz, 400 Hz, 1 kHz, 2.5 kHz, 6.3 kHz, 16 kHz
Control range	: ± 10 dB

FM TUNER SECTION (IHF)

Tuning range	: 87.5 MHz — 108.0 MHz
Usable sensitivity	: Mono 10.8 dBf (0.95 μ V/75 ohms)
50 dB quieting sensitivity	: Mono 16.3 dBf (1.8 μ V/75 ohms) Stereo 38.3 dBf (22.5 μ V/75 ohms)
Signal-to-noise ratio (IHF-A net, 85 dBf)	: Mono 80 dB Stereo 73 dB
Total harmonic distortion (1 kHz)	: Mono 0.15% Stereo 0.2%
Frequency response	: 30 Hz — 15 kHz, (+0.5 dB, -3 dB)
Capture ratio (85 dBf)	: 1.5 dB
Alternate channel selectivity	: 60 dB (± 400 kHz)
IF response ratio	: 85 dB (at 98 MHz)
Stereo separation	: 40 dB (at 1 kHz)

AM TUNER SECTION

Tuning range	: 530 kHz — 1,710 kHz
Sensitivity	: 30 μ V* (external) 300 μ V/m* (loop antenna)
Signal-to-noise ratio	: 50 dB* (100mV/m)
Selectivity	: 25 dB, (± 10 kHz)
Image response ratio	: 40 dB*
IF response ratio	: 60 dB
Total harmonic distortion	: 0.5%* (100 mV/m)

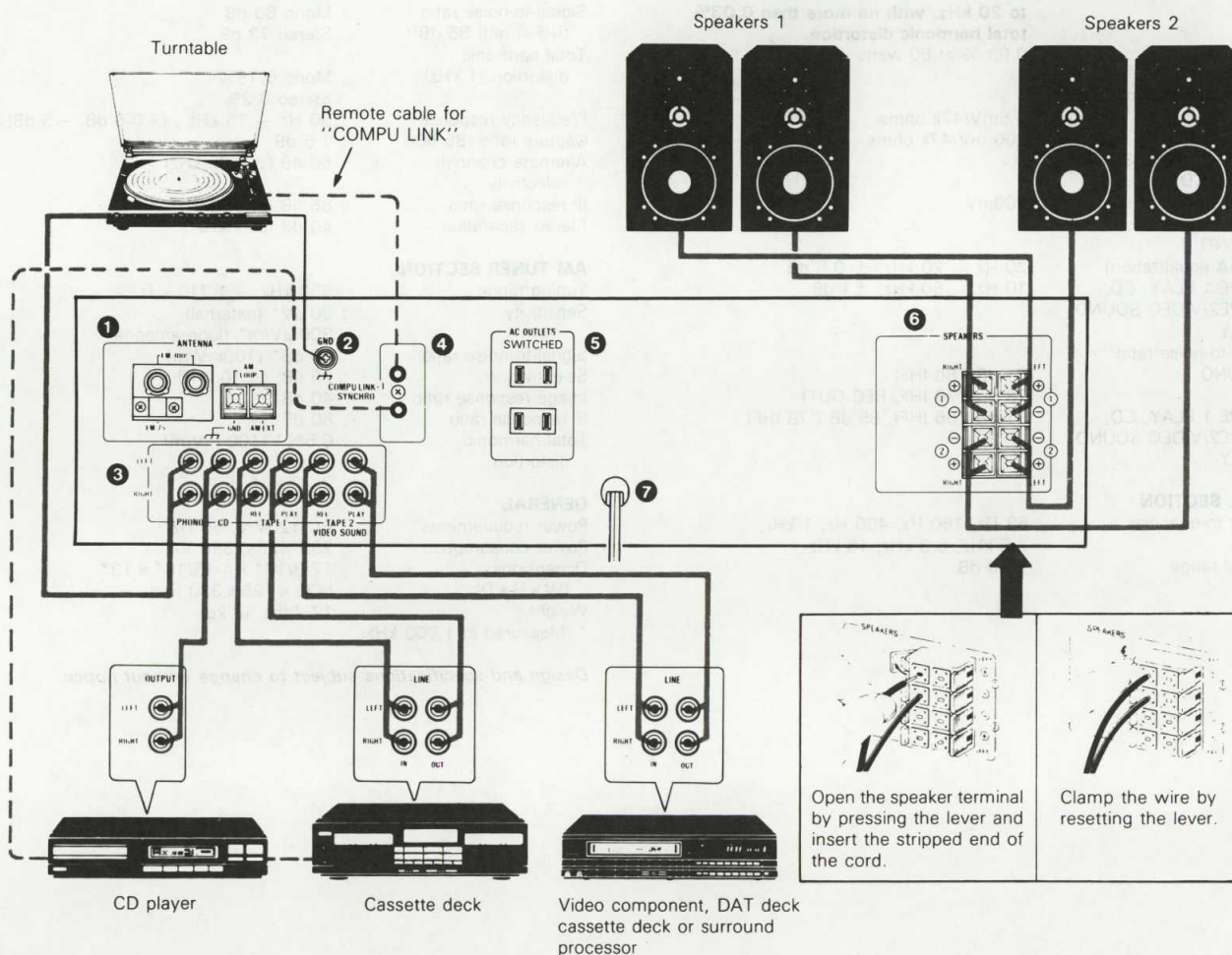
GENERAL

Power requirements	: AC 120V~, 60 Hz
Power consumption	: 290 watts, 380 VA
Dimensions (W x H x D)	: 17-3/16" x 4-15/16" x 13" (435 x 125 x 330 mm)
Weight	: 17.7 lbs. (8 kg)
* Measured at 1,000 kHz.	

Design and specifications subject to change without notice.

Connection Diagram

Switch the power off when connecting any cables.

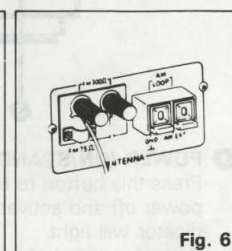
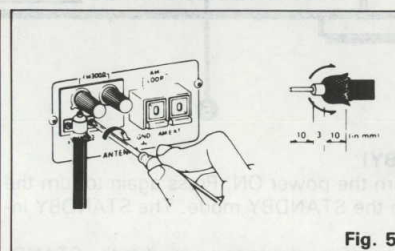
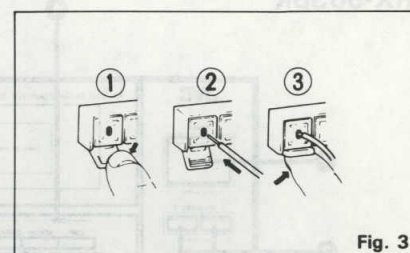
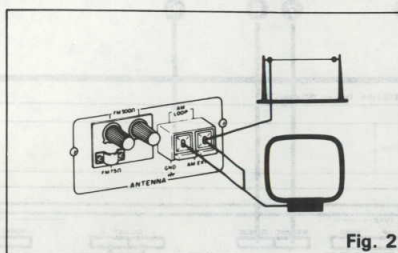
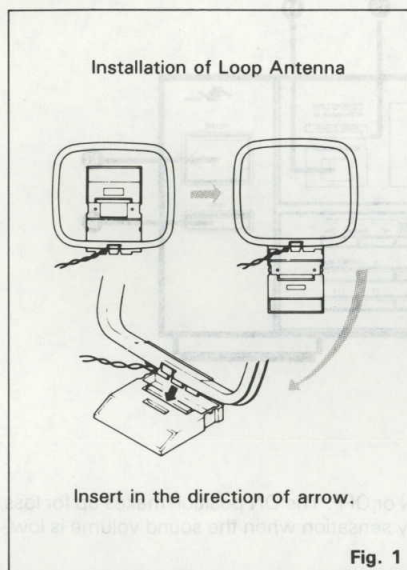


- 1 ANTENNA terminals
- 2 GND
- 3 PHONO, CD, TAPE 1, TAPE 2/VIDEO SOUND terminals.
- 4 COMPU LINK-1/SYNCHRO terminals
Connect to JVC components provided with COMPU LINK-1/SYNCHRO terminals for the COMPU LINK control system function.
- 5 AC OUTLETS (SWITCHED)
- 6 SPEAKERS 1, 2 terminals
- 7 Power cord

Notes:

- When connecting components, connect their left and right channels correctly. If channels are reversed, the stereo effect will be degraded.
- Connect speakers with the correct polarity: (+) to (+) and (−) to (−). Reversed polarity will degrade the stereo effect. Be careful to prevent adjacent speaker wires from touching each other.
- Use speakers with the correct impedance. The correct impedance is indicated on the rear panel of the RX-503BK.
- The AC OUTLETS do not supply power when the power switch is turned off. Do not connect equipment requiring more than the outlet's rated value.
- Do not connect the remote cable when connecting the JVC cassette deck having COMPU LINK-1/SYNCHRO terminals to the TAPE2/VIDEO SOUND terminals.
- When a JVC DAT deck having COMPU LINK-1/SYNCHRO terminals is used, be sure to connect it to the TAPE2/VIDEO SOUND terminals and also connect the remote cable.
- Connect a turntables using a moving magnetic (MM) type cartridges to the PHONO terminals.

Antennas



AM antennas

Figure 1: How to assemble the AM loop antenna

Figure 2: AM loop antenna

This antenna is for the reception of local AM broadcasts.

Figure 2: AM external antenna

If AM reception is unsatisfactory, connect an external AM antenna (single-wire antenna) to the AM ANTENNA terminal.

Figure 3: Connection of AM antenna

- ① Open antenna terminal levers.
- ② Plug cords into the terminals.
- ③ Close the levers.

Figure 4: Noise and interference

Change the direction of the loop antenna, or re-install it in a better position if the reception is noisy.

Notes:

- If the provided loop antenna is not connected or an uninsulated antenna wire touches the rear panel, it will be impossible to receive AM broadcasts.
- When installing an external AM antenna, leave the AM loop antenna connected.

FM antennas

Figure 5: 75-ohm FM antenna with coaxial

Loosen the screws on the bracket and insert the cable through the ring from below. Connect the stripped core to the upper terminal then tighten the ring. The ring is the antenna ground.

Figure 6: FM Feeder antenna

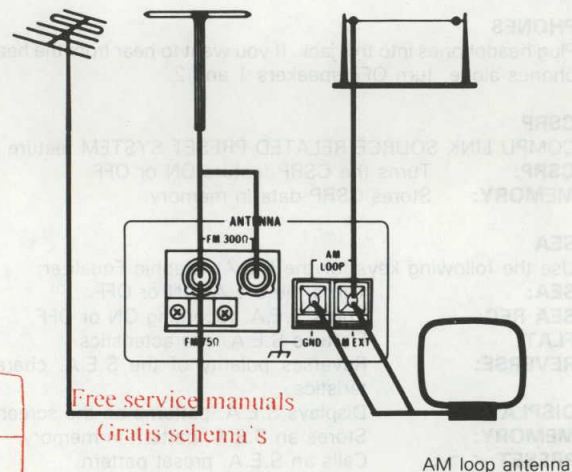
Connect to the 300-ohm terminal. Make sure the feeder antenna wires do not touch any other terminals.

Antenna Connections

75-ohm antenna with coaxial

FM feeder antenna

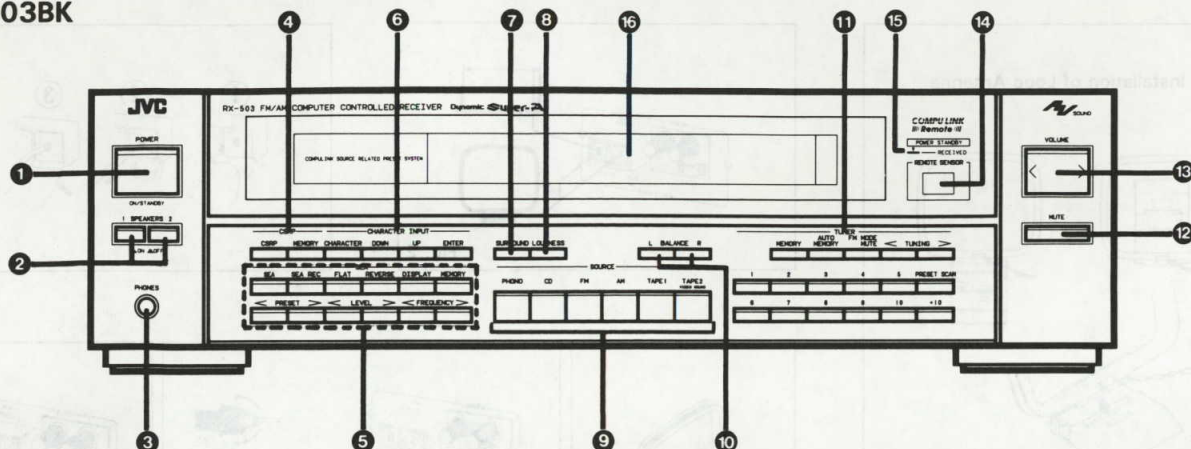
AM external antenna



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Front Panel

RX-503BK

**1 POWER (ON/STANDBY)**

Press this button to turn the power ON. Press again to turn the power off and activate the STANDBY mode. The STANDBY indicator will light.

A small amount of power (5 watts) is consumed in the STANDBY mode. To turn the power off completely, disconnect the power cord from the wall outlet. Preset data is retained in memory while the power cord is plugged into the wall outlet. If the power cord is disconnected or a power failure occurs, data is retained for two or three days.

2 SPEAKERS 1, 2

Turns speakers 1 and 2 ON or OFF.

3 PHONES

Plug headphones into this jack. If you want to hear from the headphones alone, turn OFF speakers 1 and 2.

4 CSRP

COMPU LINK SOURCE RELATED PRESET SYSTEM feature

CSRP: Turns the CSRP feature ON or OFF.

MEMORY: Stores CSRP data in memory.

5 SEA

Use the following keys for the S.E.A. Graphic Equalizer:

SEA: Turns the S.E.A. ON or OFF.

SEA REC: Turns S.E.A. recording ON or OFF.

FLAT: Flattens S.E.A. characteristics.

REVERSE: Reverses polarity of the S.E.A. characteristics.

DISPLAY: Displays S.E.A. patterns on the screen.

MEMORY: Stores an S.E.A. pattern in memory.

PRESET <, >: Calls an S.E.A. preset pattern.

LEVEL <, >: Set an S.E.A. level.

FREQUENCY <, >: Calls a frequency band to correct.

6 CHARACTER INPUT

Use the following keys to assign titles or other data to the S.E.A. patterns or to TUNER channels you have preset.

CHARACTER: Sets the CHARACTER INPUT mode.

DOWN, UP: Press to select characters (letters, numerals, and symbols).

ENTER: Store created titles in memory.

7 SURROUND

Turns the surround sound effect ON or OFF.

8 LOUDNESS

Turns LOUDNESS ON or OFF. The ON position makes up for loss of the human auditory sensation when the sound volume is low.

9 SOURCE

Use the following keys to select sources:

PHONO: Press to listen to records.

CD: Press to listen to CDs.

FM: Press to listen to FM broadcasts.

AM: Press to listen to AM broadcasts.

TAPE 1: Press to operate the tape deck connected to the TAPE 1 terminals.

TAPE 2/VIDEO SOUND:

Press to operate the tape deck or video equipment connected to the TAPE 2/VIDEO SOUND terminals.
(alternates between ON and OFF)

10 BALANCE L, R

Adjusts the volume balance between the left and right speakers.

11 TUNER

Use the following keys to listen to AM or FM broadcasts:

MEMORY: Stores an AM or FM frequency (station) on a preset channel.

AUTO MEMORY: Stores an AM or FM frequency on a preset channel using the AUTO MEMORY feature.

FM MODE/MUTE: Selects FM reception modes.

TUNING <, >: Tunes in an AM or FM frequency.

1 - 10, + 10 (Tuner numeric keys):

Press to select preset channels.

PRESET SCAN: Press to scan preset channels in sequence.

12 MUTE

Turns sound ON or OFF temporarily.

13 VOLUME <, >

Adjusts the volume of sound from the speakers or headphones.

14 REMOTE SENSOR

Receives signals from the remote control unit.

15 RECEIVED and POWER STANDBY indicator

Lights when signals are received from the remote control unit or when the machine is in the STANDBY mode.

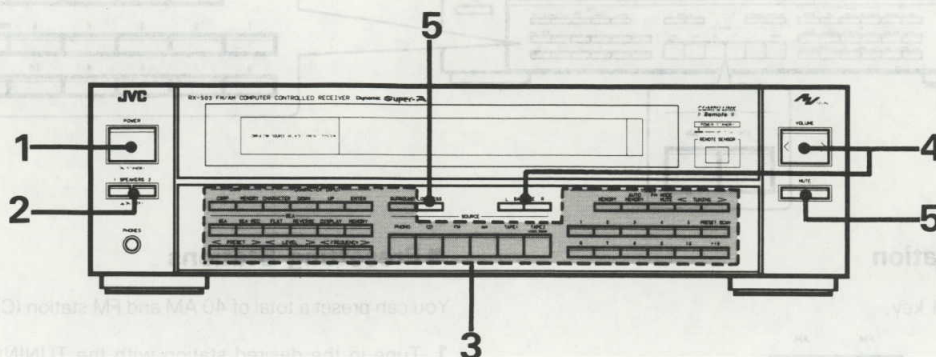
16 Display and indicator

Shows the operating status and the connected COMPU LINK equipment.

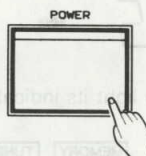
Basic Operation

— Before Operating —

Before plugging the power cord into an AC outlet, check to be sure the individual components are connected correctly.



1. Turn the POWER switch to ON.



Note:

If a malfunction occurs when the power is ON, unplug the power cord and then plug it in again.

2. Select a speaker system by pressing one of the SPEAKERS keys.



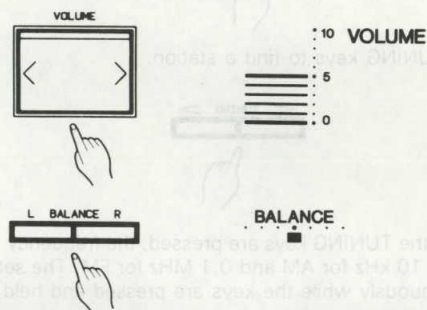
Note:

If speakers are not connected to both SPEAKERS 1 and 2 terminals, do not turn ON both speaker systems as that would suppress sound output.

3. Operate these keys, as needed, by following the directions given further on.



4. Adjust the VOLUME and BALANCE keys to your taste.



Note:

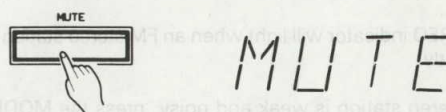
These keys vary their settings while they are being pressed. The display normally shows VOLUME. It will change to BALANCE for about 5 seconds when the BALANCE keys are pressed.

5. Press the LOUDNESS and MUTE keys as needed.

- Press to make up for loss of the human auditory sensation when the sound volume is low.



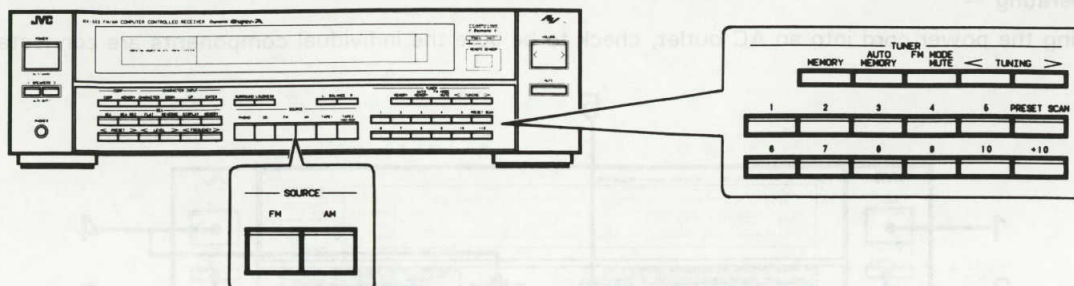
- Press to temporarily cancel sound output.



Note:

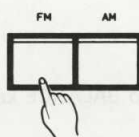
The MUTE key is reset when the VOLUME or BALANCE keys are pressed.

Listening to AM or FM Broadcasts

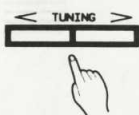


■ Selecting a Station

1. Press the AM or FM key.



2. Use the TUNING keys to find a station.



Each time the TUNING keys are pressed, the frequency is varied in steps of 10 kHz for AM and 0.1 MHz for FM. The setting will vary continuously while the keys are pressed and held.

FM 87.5 MHz

Auto-tuning starts when the TUNING keys are released and stops when a station is tuned. To halt auto-tuning, press a TUNING key.

3. The TUNED indicator will light when a station is tuned in correctly.

TUNED STEREO MUTE AUTO
FM 91.5 MHz

Adjust the antenna if the indicator does not light.

- While tuning in an FM station, press the MODE/MUTE key to light the MUTE/AUTO indicator, this cuts out inter station noise while tuning.
- The STEREO indicator will light when an FM stereo station is tuned in correctly.

If the FM stereo station is weak and noisy, press the MODE/MUTE key again to turn off the MUTE/AUTO indicator to improve reception (broadcast becomes monaural).

■ Presetting Stations

You can preset a total of 40 AM and FM station (CH 1 through CH 40).

1. Tune in the desired station with the TUNING keys.

TUNED STEREO MUTE AUTO
FM 91.5 MHz

2. Press the MEMORY key to light its indicator.

MEMORY TUNED STEREO MUTE AUTO
FM 91.5 MHz - - ch

3. Enter the channel number with numeric keys while the indicator is on (for about 5 seconds).

1 2 TUNED STEREO MUTE AUTO
FM 91.5 MHz 1 ch

- If the indicator turns off before you enter the channel number, press the MEMORY key again.

4. Repeat this procedure to preset other channels.

■ Recalling preset channels

1. Press numeric keys to select a preset channel.

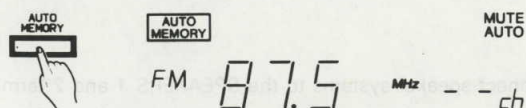
1 2 VOLUME BALANCE TUNED STEREO MUTE AUTO
CH- 1 FM 91.5 MHz 1 ch

- To indicate numbers 1 through 10, simply press the appropriate keys.
To indicate numbers over 10, press the appropriate combination of keys.
Examples;
To indicate 17, press "+10", then "7".
To indicate 20, press "+10", then "10".
To indicate 26, press "+10" twice, then "6".
To indicate 40, press "+10" three times, then "10".

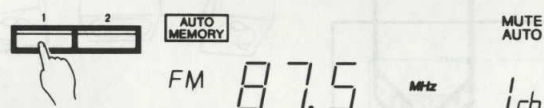
■ AUTO MEMORY

The auto-memory feature scans frequencies upward and presets stations as they are tuned, in ascending channel number order.

1. Using the TUNING keys, select the frequency from which you want auto-memory to start (the lower-limit frequency).
2. Press the AUTO MEMORY key to light its indicator.

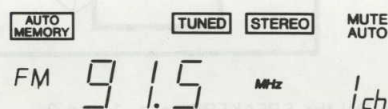


Enter the starting channel number with the numeric keys while the indicator is on (about 5 seconds).

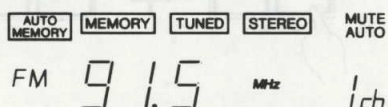


- If the indicator turns off before you enter the channel number, press the AUTO MEMORY key again.
3. The auto-memory feature starts scanning frequencies upward.

The TUNED indicator will light when a station is tuned, with the channel number blinking (for about 5 seconds).



4. The presetting is complete when the MEMORY indicator is lit.



This continues until the upper-limit frequency is reached or all 40 channels are filled.

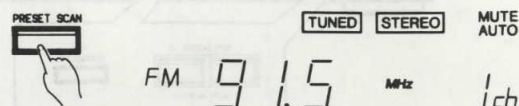
Note:

If you do not want to preset station, resume scanning by pressing the AUTO MEMORY key while the channel number is blinking. To halt the auto-memory feature, press any TUNER key other than the AUTO MEMORY KEY.

■ PRESET SCAN

The PRESET SCAN key is convenient for locating desired channels.

1. Press the PRESET SCAN key.

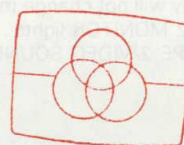


The preset channels are scanned upward in sequence. Each channel is received for about 4 seconds while the corresponding channel number blinks.

2. When the desired channel is located, press the PRESET SCAN key again to stop scanning.



3. Scanning ends when one cycle of 40 channels is completed. The receiver returns to the station tuned in prior to the start of scanning.

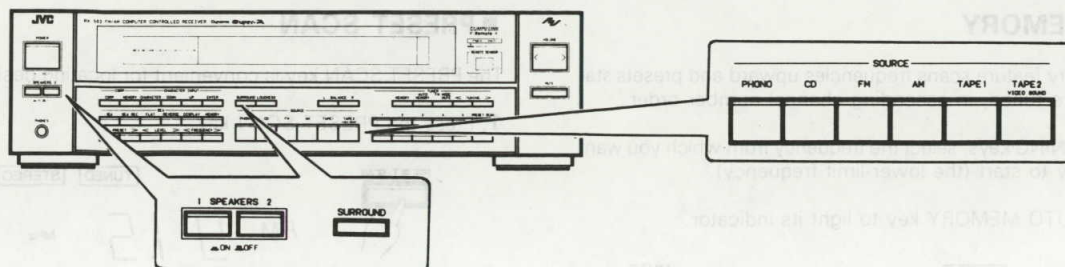


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Playing Back Sources (PHONO, CD, TAPE1, TAPE2/VIDEO SOUND)



■ Playing Back Sources

1. Press the SOURCE key for the desired source.

2. Operate the corresponding equipment.

<If you select CD>



CD player can be operated.

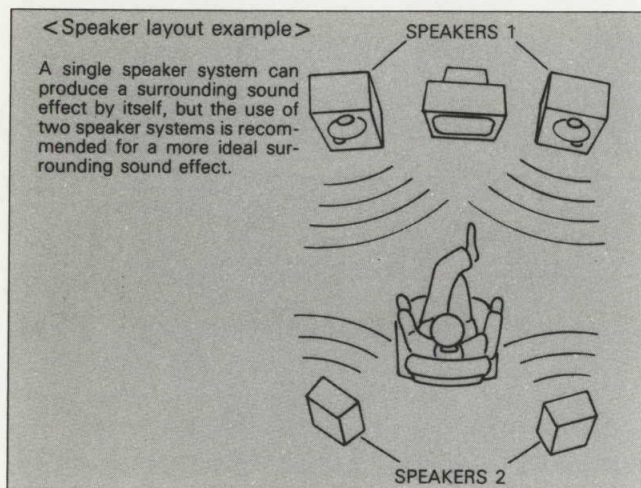
- Pressing the TAPE 2/VIDEO SOUND key will not change the display source indication, but the TAPE 2 MONITOR lights. To play another source, press the TAPE 2/VIDEO SOUND key again to turn off the indicator.

Note:

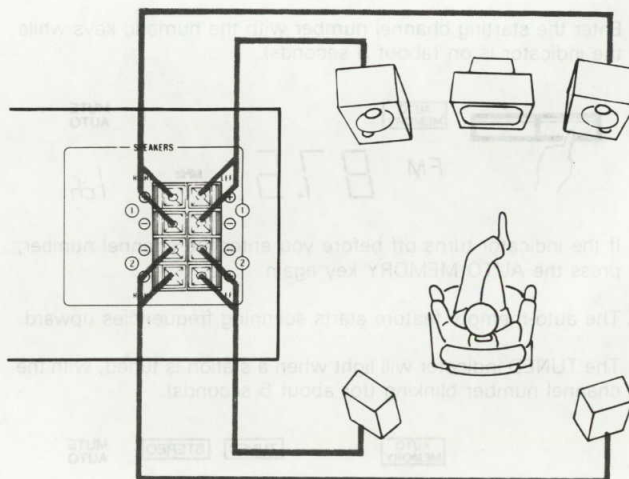
To operate other source equipment, refer to the appropriate instructions.

■ Playing Back with a Surround-sound Effect

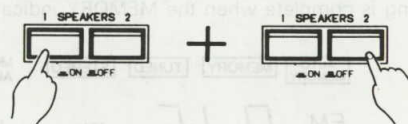
Playing back a stereo source with the SURROUND key ON will produce a surrounding sound effect.



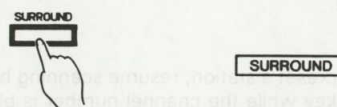
1. Connect speaker systems to the SPEAKERS 1 and 2 terminals.



2. Turn ON the SPEAKERS keys, 1 and 2.



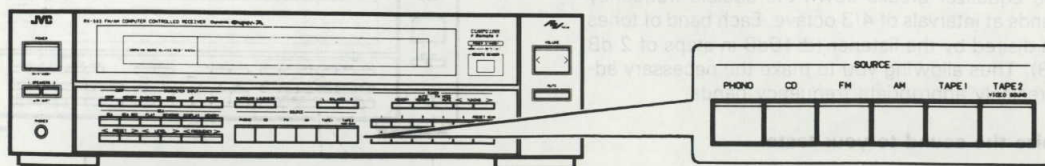
3. Press the SURROUND key.



4. Play back the stereo source.

- If a speaker system with a low-rated input is connected to SPEAKERS 2, avoid using it independent of SPEAKERS 1, and play attention to its VOLUME control during surrounding sound playback.
- Monaural sources cannot be played back with the surround sound effect.

Recording



■ Recording

1. Press the SOURCE key for the desired source.
2. Operate the corresponding source equipment.

<If you select PHONO>



Turntable and tape deck can be operated.

Notes:

The surround sound is recorded as a normal stereo sound even if it is recorded with the SURROUND key is ON.

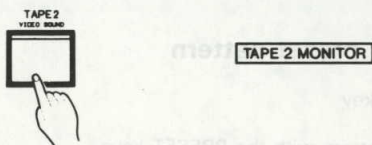
■ Three-Head Tape Decks

If you have a three-head tape deck, you can use it to monitor the sound being recorded. Connect the tape deck to the TAPE 2/VIDEO SOUND terminals and proceed as follows:

1. Start recording the source onto the TAPE 2 deck.

When the TAPE 2 MONITOR indicator is off, you hear the sound of the source playing through the speakers.

2. Press the TAPE 2/VIDEO SOUND key.



Now you hear the sound of the recording immediately as it is made on the tape.

- By pressing the TAPE 2/VIDEO SOUND key on and off, you can compare the sound quality of the source with the quality of the tape recording being made.

Note:

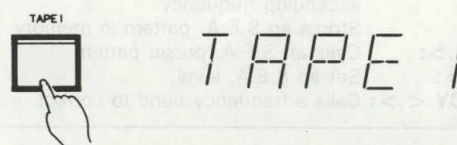
Set the recording level from the tape deck. It can not be set with the VOLUME control of this machine.

■ Dubbing Tapes

Connect one tape deck to the TAPE 1 terminals, the other tape deck to the TAPE 2/VIDEO SOUND terminals.

<To record from TAPE 1 to TAPE 2/VIDEO SOUND>

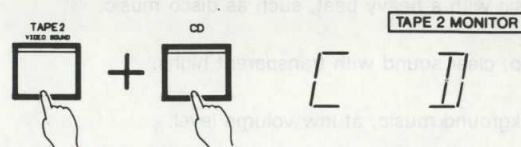
1. Press the TAPE 1 key.



2. Play back the TAPE 1 deck and record with the TAPE 2/VIDEO SOUND deck.

<To record from TAPE 2/VIDEO SOUND to TAPE 1>

1. Press the TAPE 2/VIDEO SOUND key and a SOURCE key other than TAPE 1.



2. Play back the TAPE 2/VIDEO SOUND deck and record with the TAPE 1 deck.

USING THE S.E.A. GRAPHIC EQUALIZER

The S.E.A. Graphic Equalizer breaks down the audible frequency range into seven bands at intervals of 4/3 octave. Each band of tones can be adjusted as desired by the listener (± 10 dB in steps of 2 dB on the basis of 0dB). Thus allowing you to make the necessary adjustments in the precisely appropriate frequency bands.

***You can customize the sound to your taste.**

***You can correct subtle frequency to suit the acoustic characteristics of your listening room.**

***You can compensate for the conditions of audio equipment.**

Use the following keys for the S.E.A. Graphic equalizer.

ON/OFF:	Turns the S.E.A. Graphic equalizer.
REC:	Turn the S.E.A. recording ON or OFF.
FLAT:	Flatten the S.E.A. characteristics.
REVERSE:	Reverses polarity of the S.E.A. characteristics.
DISPLAY:	Display the current S.E.A. pattern in ascending frequency.
MEMORY:	Stores an S.E.A. pattern in memory.
PRESET <, >:	Calls an S.E.A. preset pattern.
LEVEL <, >:	Set an S.E.A. level.
FREQUENCY <, >:	Calls a frequency band to correct.

S.E.A. preset patterns

A total of 10 preset patterns can be used: 5 programmed preset patterns, and 5 manual patterns which you create (SEA-A through E).

— Program pattern features —

These five S.E.A. patterns were preset at the factory to offer suggested settings for various types of audio programs. Each preset pattern is shown below.

HEAVY:

For music with a heavy beat, such as disco music.

CLEAR:

For crisp, clear sound with transparent highs.

SOFT:

For background music, at low volume level.

MOVIE:

For TV, VCR, and videodisc sound.

VOCAL:

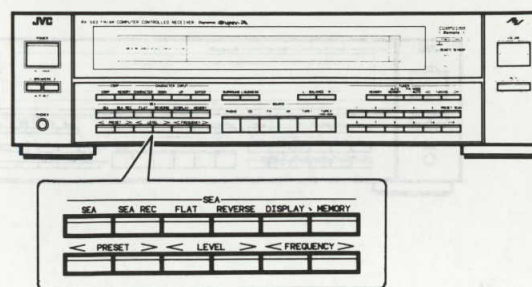
For music that is chiefly vocal, or speech.

- After recalling these pattern, you can further change each frequency band to suit yourself. However, since they are representative patterns, the original, stored pattern will be unchanged.

S.E.A. recording

The sound corrected by S.E.A. can be recorded on the tape deck connected to the TAPE 1 terminals.

- The SEA REC key is not functional when the SEA ON/OFF key is OFF, or SURROUND ON/OFF keys is ON.

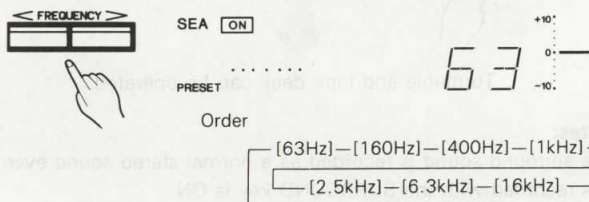


■ Creating an S.E.A. pattern

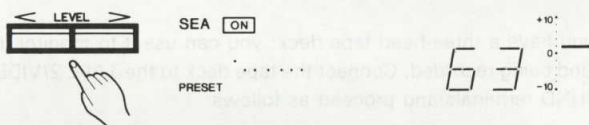
- Press the SEA key.



- Press the FREQUENCY keys to call the desired frequency.



- Press the LEVEL keys to adjust the S.E.A. level.



Repeat Step 1 ~ 3 for each additional frequency desired.

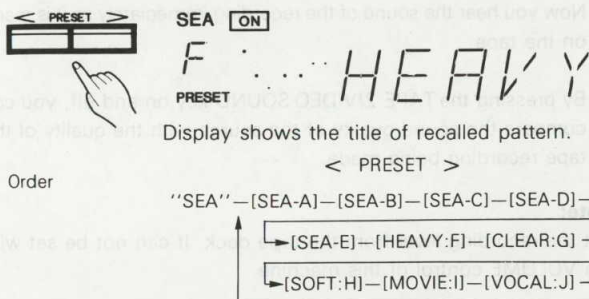
Note:

When a frequency has been called, press the LEVEL keys while the frequency is displayed (about 5 seconds). If the display is cleared before you press the LEVEL keys, it can be recalled by pressing either FREQUENCY key.

■ Recalling a preset pattern

- Press the SEA key.

- Call a preset pattern with the PRESET keys.



- SEA Recording



SEA ON REC
A
PRESET

Operate the recording procedure as instructed in "recording".

S.E.A. recording is not available with the tape deck connected to the TAPE 2 terminals.

- Flatten the SEA characteristics.



FLAT

Pressing the FLAT key while a pattern is yet to be preset will clear it. Be careful not to press the FLAT key inadvertently.

- REVERSE



SEA

The S.E.A. pattern is displayed in ascending frequency after this display.

Press again to return to the original polarity.

- DISPLAY



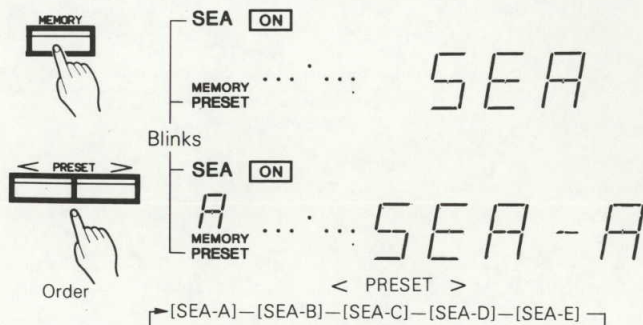
SEA

The S.E.A. pattern is displayed in ascending frequency order (for a preset pattern, its title).

To stop the display, press DISPLAY key again.

■ Presetting Manual Patterns

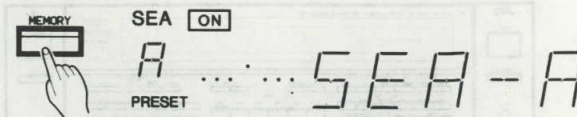
- Create an S.E.A. pattern to preset as instructed in "Creating an S.E.A. pattern".
- Press MEMORY key to light its indicator. Call one of the patterns to store (SEA-A through E) by pressing the PRESET keys while the indicator is on (about 5 seconds).



Note:

Press the MEMORY key again if the indicator turns off before you press the PRESET keys.

- Press the MEMORY key again while the indicator is on (about 5 seconds). Memory presetting is complete when the MEMORY indicator turns off.



The preset SEA patterns can each be given a four-character title. See the section "Entering Characters" for further details.

- The reverse feature** offers you a noise reduction effect during tape recording. First, record sources with emphasis on high-pitched tones by using SEA; during playback, activate reverse SEA, to cut hissing noise inherent in tape recording.
- The S.E.A. ON/OFF key** enable you to compare the sound corrected by S.E.A. with the original (not corrected) sound during procedure creating S.E.A. pattern. Pressing the ON/OFF key to turn the S.E.A. OFF offers you the sound not corrected. When press ON/OFF key again the S.E.A. pattern being created could be recalled, and corrected sound would be heard.
*Because pressing the FLAT key while a pattern yet to be preset will clear it, be sure to use ON/OFF key.

Frequency band responses

63 Hz: Raise to emphasize the very low base response of organs, drums, and contrabass. When de-emphasized, eliminated unclear response at low frequencies.

160 Hz: Emphasize to obtain a more expanded low sound. De-emphasize to eliminate unclear sound caused by large or nearly empty listening rooms.

400 Hz: This frequency range is the base on which music is constructed. Emphasize to put real punch in your music.

1 kHz: Most effective in emphasizing or de-emphasizing the human voice.

2.5 kHz: the human hearing is most sensitive to this frequency. If the music sounds hard or metallic, de-emphasize it.

6.3 kHz: this frequency band varies the tonal expression, influencing the subtleties of the music.

16 kHz: Boosting this frequency range suitably adds to the delicacy of highs, with cymbals and triangles resounding in a more ear-pleasing manner, and provides a feeling of extension.

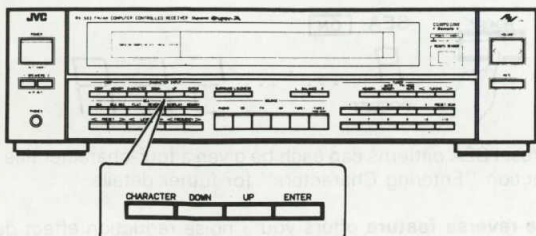
Preset Pattern Frequency Responses (Unit: dB)

Frequency band Preset pattern	63Hz	160Hz	400Hz	1kHz	2.5kHz	6.3kHz	16kHz
HEAVY	+10	+2	-2	0	0	+2	+4
CLEAR	+4	-4	0	+4	+2	+4	+6
SOFT	+2	0	0	0	0	-2	-6
MOVIE	+6	+2	0	0	-2	0	+2
VOCAL	-2	-2	+2	+4	+2	0	+2
SEA-A							
SEA-B							
SEA-C							
SEA-D							
SEA-E							

Note: To assign titles to the preset patterns, see "Entering Characters".

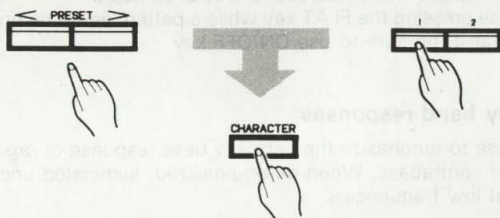
Entering Characters

A four-character title or station name can be assigned to each S.E.A. preset pattern (SEA A to E) or TUNER preset channel (CH 1 to 20).



1. Specify a S.E.A. manual preset pattern (SEA A through E using the keys PRESET < and >), or a TUNER preset channel (using the numeric keys). Press the CHARACTER key.

<To specify a S.E.A. pattern> Use the S.E.A. PRESET keys, < and >.
<To specify a Tuner Preset Channel> Use the numeric keys.



Blinks
↓

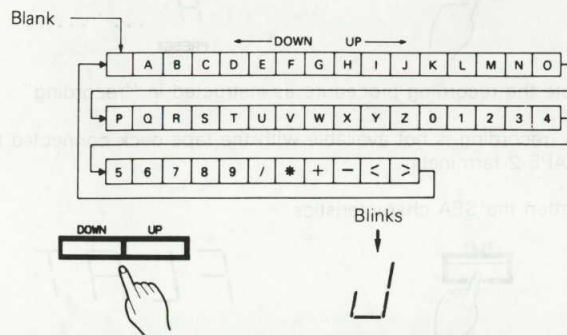
The cursor at the left blinks.
If a character has already been entered, the character blinks.

Note:

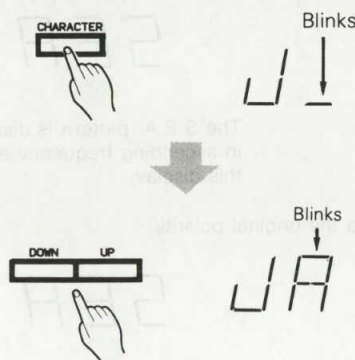
For details on S.E.A., see "Using the S.E.A. Graphic Equalizer." When a preset S.E.A. pattern has been called, press the CHARACTER key while the pattern is displayed (about 3 seconds). If the display is cleared before you press the CHARACTER key, press either PRESET key.

2. Select the appropriate characters with the UP and DOWN keys.

Alphanumeric character order.

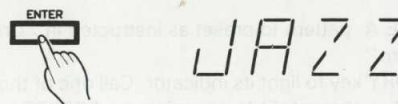


3. Press the CHARACTER key to move to the next position. Repeat steps 2 and 3 to enter up to 4 characters.



- To alter the characters, move the blinking cursor to the desired character for correction using the CHARACTER key.

4. When the entry is complete, press the ENTER key to store it in memory.



Preset	SEA A	SEA B	SEA C	SEA D	SEA E
1	1	2	3	4	5
2	6	7	8	9	0
3	1	2	3	4	5
4	6	7	8	9	0
5	1	2	3	4	5
6	6	7	8	9	0
7	1	2	3	4	5
8	6	7	8	9	0
9	1	2	3	4	5
10	6	7	8	9	0
11	1	2	3	4	5
12	6	7	8	9	0
13	1	2	3	4	5
14	6	7	8	9	0
15	1	2	3	4	5
16	6	7	8	9	0
17	1	2	3	4	5
18	6	7	8	9	0
19	1	2	3	4	5
20	6	7	8	9	0

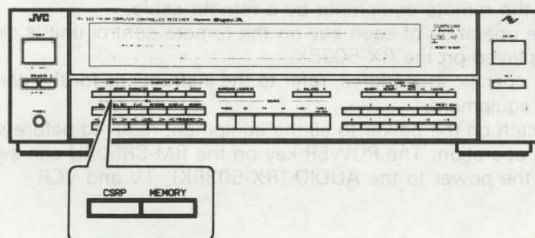
Running the CSRP (Compu Link Source Related Preset System) Feature

CSRP is the state-of-the-art electronic feature that presets volume, balance, and other control settings. This was previously done manually each time a different source was played back. This feature lets you invoke preset control settings by simply pressing a SOURCE key without repeating many settings each time sources are changed.

The following controls can be preset on each SOURCE key (except TAPE 2/VIDEO SOUND):

- VOLUME
- BALANCE
- SEA ON/OFF
- S.E.A. preset pattern
- LOUDNESS ON/OFF
- SURROUND ON/OFF

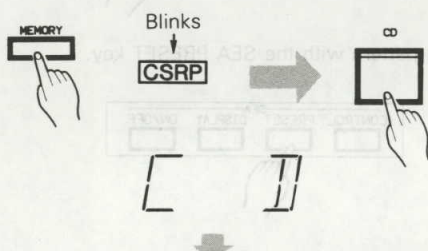
Operation



- Before proceeding, set the preset state.

1. Press the MEMORY key to blink its indicator. Press the SOURCE key for the source to be preset (PHONO, CD, FM, AM, or TAPE 1) while the indicator is blinking (about 5 seconds).

Repeat this operation for each additional source to be preset.



When the presetting is complete, the display will show preset data in the following order with the indicator blinking rapidly:

VOLUME, LOUDNESS ON/OFF → BALANCE, LOUDNESS ON/OFF → SEA (ON/OFF, preset pattern), SURROUND ON/OFF

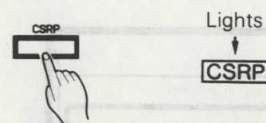
Note:

Press the MEMORY key again if the indicator stops blinking before you press a SOURCE key.

Sources can be preset regardless of whether the CSRP key is ON or OFF, but when a source is to be preset with the CSRP key OFF, do not turn it ON until the presetting is complete. If the CSRP key were turned ON before the presetting is complete, the current data settings would be recalled to override the presetting in progress. Even with the SEA key ON, the SEA PRESET indicator will blink when the MEMORY key is pressed if an S.E.A. preset pattern has not been previously selected. In this case, select an S.E.A. preset pattern and retry this operation.

Sources cannot be preset on the TAPE 2/VIDEO SOUND key.

2. When the CSRP key is ON, data settings on each corresponding SOURCE key recall preset by selecting the source.



- When the CSRP key is turned ON or when the power is switched on with the CSRP key ON, the display will show the data settings on the currently selected SOURCE key in sequence with the indicator blinking rapidly. The blinking indicator changes to a continuously lit state when the display is complete. Subsequently, a similar display occurs each time an additional source is selected.

Note:

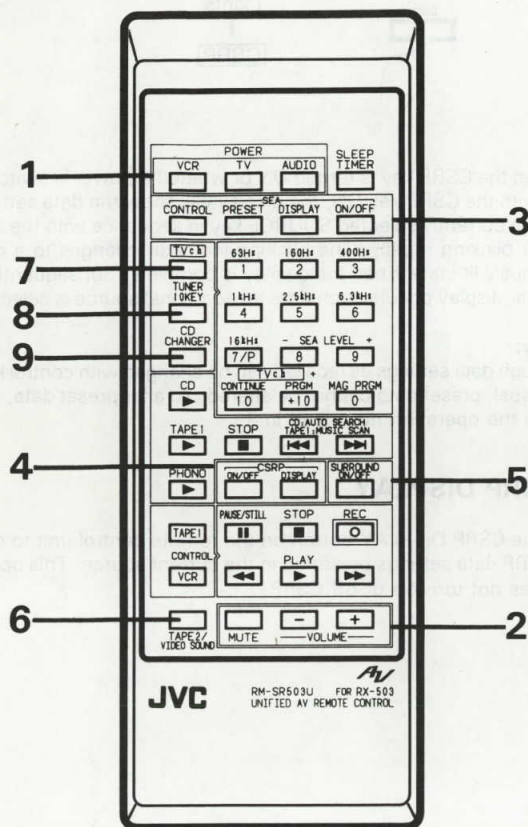
Though data settings as recalled can be changed with control keys as usual, preset data cannot be altered. To alter preset data, perform the operation described in 1.

CSRP DISPLAY

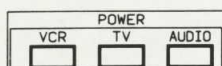
Press the CSRP DISPLAY button on the remote control unit to confirm CSRP data settings preset in the current source. This operation does not turn on or off CSRP.

Operation with the Remote Control Unit

- Aim the signals at the REMOTE SENSOR on the RX-503BK



1. Using the POWER keys



- AUDIO
Press to change the power for the RX-503BK to ON or STANDBY.
- TV
Press to change the TV power to ON or OFF.
- VCR
Press to change the VCR power to ON or OFF.

2. Using the VOLUME and MUTE keys

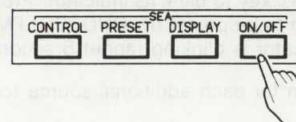


- VOLUME $\ominus$, $\oplus$
Adjust the volume by processing the minus $\ominus$ key to lower the sound and the plus $\oplus$ key to raise the sound.
- MUTE
Press ON to turn off the sound temporarily. Press again to OFF, or operate the VOLUME key, to turn on the sound again.

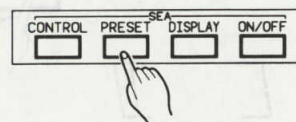
- The RM-SR503U remote control units control the RX-503BK and JVC's audio visual gear from a remote place via the Compu Link Remote Control System.
- Direct the transmitter window of the remote control unit at target equipment within a distance of 7 meters. Take care to avoid obstacles between the transmitter and the target. Press keys slowly and positively, making sure the desired functions result.
- The key markings on the transmitter may not match those on the equipment. Check the markings.
The remote control unit cannot control equipment functions they do not support. Older equipment may not be receptive to their input.
- Check for connection of the COMPU LINK-1/SYNCHRO terminals on the remote equipment by a remote cable.
- The operation of each key on the remote control unit is clearly displayed on the RX-503BK.
For specific procedures, refer to the instructions for the particular equipment.
- Switch on the power to all the equipment required before starting operation. The POWER key on the RM-SR503U can switch on the power to the AUDIO (RX-503BK), TV and VCR.

3. Using the S.E.A. graphic equalizer

1. Press the SEA ON/OFF key.



2. Select a pattern with the SEA PRESET key.



The pattern will change in the following order each time the SEA PRESET key is pressed.

[SEA-A]→[SEA-B]→[SEA-C]→[SEA-D]→[SEA-E]→[HEAVY:F]→
[CLEAR:G]→[SOFT:H]→[MOVIE:I]→[VOCAL:J]

3. To correct a level at the desired frequency band, press the SEA CONTROL key, call the frequency with the 63 Hz to 16 Hz keys, and correct the frequency with the SEA LEVEL $\ominus$, $\oplus$ keys.

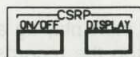
63Hz	160Hz	400Hz
1	2	3
1kHz	2.5kHz	6.3kHz
4	5	6
16kHz	SEA LEVEL	+
7/P	8	9

4. Press the SEA DISPLAY key and the current S.E.A. pattern will be displayed in ascending frequency order.

Note:

Refer to the section "Using the S.E.A. graphic equalizer"

4. Using the CSRP keys



- **ON/OFF**
Press to turn the CSRP feature ON or OFF.
- **DISPLAY**
Press to display the current CSRP setting.
(This operation does not turn on or off CSRP.)

5. Play back with a surround-sound effect.



- **SURROUND ON/OFF**
Press to get surround playback. Press again to turn off.

6. Using the TAPE 2/VIDEO SOUND key

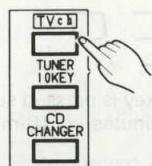


Press when you want to play back or monitor the recording on a tape deck connected to the TAPE 2/VIDEO SOUND terminals or when you want to play back a tape on video equipment.

7. Selecting the TV Channel

Aim signals at the TV

1. Press the **TV ch** ☐ key to set numeric keys in the TV ch mode (1~9,0 and **TV ch** -, +).



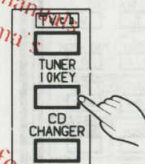
The numeric keys and the **TV ch** -, + keys enter the TV channel mode.

2. Select a TV channel with the numeric keys (1~9,0) or the TV ch -, + keys.

- The numeric keys vary in operation from one type of TV to another. Read the instructions accompanying the particular TV.

8. Listening to FM/AM Broadcasts

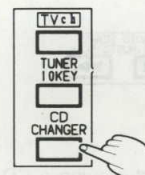
1. Press the TUNER 10 KEY ☐ key to set numeric keys in the TUNER preset channel number mode.



2. Use the numeric keys (1~10, +10) to select the preset channel on the TUNER. The numeric keys are used in the same way as the TUNER numeric keys on the equipment.
For reference, see "Listening to AM or FM Broadcasts" page 8.

9. Using the CD Auto-changer

1. Press the CD CHANGER ☐ key to set numeric keys in the CD Auto-changer mode (disc number 1~7/P, and play mode).

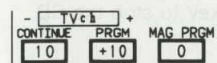


2. Select a play mode by pressing the CONTINUE, PRGM, or MAG. PRGM key.

CONTINUE: Play CDs in sequence.

PRGM: Play a CD in a programmed sequence.

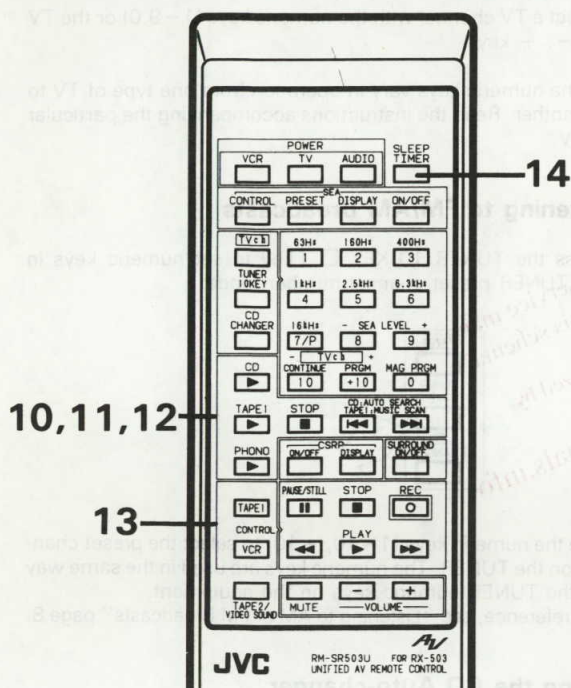
MAG. PRGM: Play a magazine program.



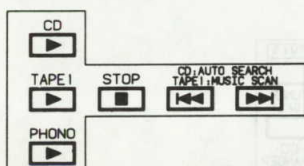
3. Use the numeric keys (1~7/P) to select the disc number.
• You must press the CD ☐ key first, if you wish to use the Numeric keys in the CD track number mode.

The numeric keys and play modes vary in function from one type of CD auto-changer to another. Be sure to read the CD autochanger's instruction.

Operation with the Remote Control Unit

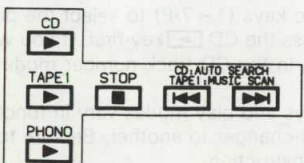


10. Listening to CDs



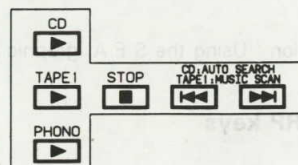
1. Press the CD key to start playing a CD.
(This key also changes the numeric key to the CD track number mode.)
2. Use the numeric key to select track number.
3. Use the AUTO SEARCH and keys to go to the beginning of other tracks.
: Skips to the beginning of the previous track.
: Skips to the beginning of the next track.
4. Press the STOP key to stop the CD.

11. Using a Cassette Deck (TAPE1)



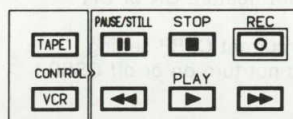
1. Press the TAPE1 key to start the cassette deck.
2. Use the MUSIC SCAN and keys to go to the beginning of other tunes.
: Skips to the beginning of the previous track.
: Skips to the beginning of the next track.
3. Press the STOP key to stop the CD.

12. Listening to Records



1. Press the PHONO key to start playing a record.
2. Press the STOP key to stop the records.

13. Using the control keys



1. Press TAPE1 or VCR key to select the equipment you wish to operate.
2. Use the TAPE1, or VCR control keys to select the operation you wish.

PAUSE/STILL (): Stops play back, sound recording, and video recording temporarily. Press the PLAY key to release this control.

STOP (): Stops the operation selected.

REC (): Starts sound and video recording when pressed together with the PLAY key. When pressed together with the PAUSE/STILL key, sound and video recording are placed in standby.

PLAY (): Plays the tape.

REW (): Fast winds the tape in a cassette deck to the left. Rewinds the VCR tapes.

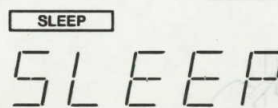
FF (): Fast winds the tape in a cassette deck to the right. Fast forwards the VCR tapes.

- Use the remote controller pointed at the VCR.

14. Using the Sleep Timer

The sleep timer shuts off the RX-503BK (to enter the STANDBY mode) when the preset time intervals have elapsed.

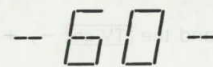
1. Press the SLEEP TIMER key to set the timer setting mode.



2. Each time the SLEEP TIMER key is pressed subsequently, the timer can be set up to 80 minutes, in 10-minute multiples.



continuously lit.



turn off after about 5 seconds.

3. After the minute display turns off, press the SLEEP TIMER key once more to display the remaining time in minutes.

Replacement Procedures

Removing the top cover

- 1 Remove six screws fixing the top cover (four screws on the both sides and two on the rear side.)
- 2 Dismount the top cover by slightly opening its sides and lifting the rear.

Removing the Front Panel

- 1 Remove the top cover. (Refer to the above item.)
- 2 Remove three plastic rivets (A) on the upper part of the front panel and three screws (B) from the lower part. (Fig.1)

Removing the Front Switch PCB

- 1 Remove the Front Panel. (Refer to the above item.)
- 2 Remove four screws (C) from Front SW PCB.
- 3 Remove the connectors to separate Front SW PCBs from FL PCB. (Fig.2)

Removing the FL PCB

- 1 Remove the Front SW PCBs. (Refer to the above item.)
- 2 Remove two screws (D) .
- 3 Pull up the left side of the FL PCB slightly towards you , and lift up it. (Fig.3)

Removing the Tuner PCB

- 1 Remove the top cover. (Refer to the above item.)
- 2 Remove two screws (E) fixing the chassis. (Fig.1)
- 3 Remove four screws (F) fixing the rear side. (Fig.4)

Removing the Power Transistor

- 1 Remove the top cover. (Refer to the above item.)
- 2 Demount the bottom cover by removing 14 screws from the bottom.
- 3 Unsolder the power transistor.
- 4 Remove the screws holding the power transistors using a wrench having a diagonal length 5.5 mm.

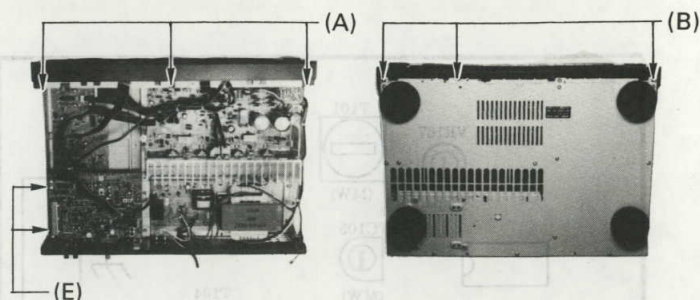


Fig. 1

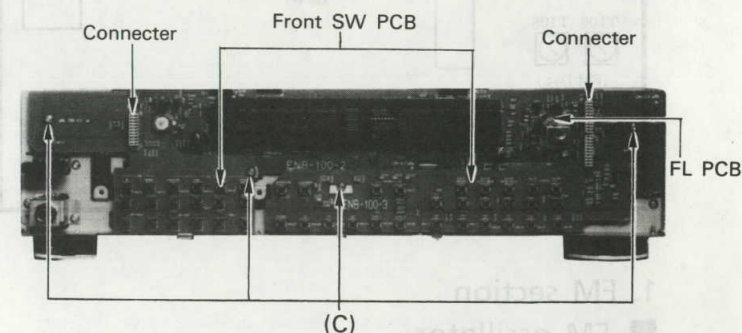


Fig. 2

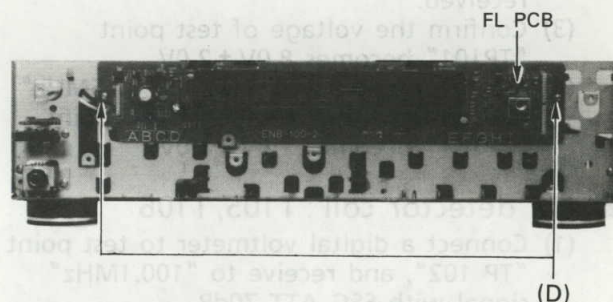


Fig. 3

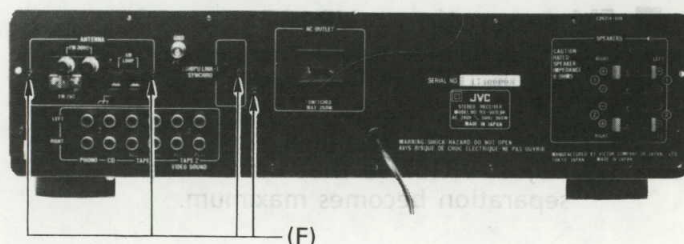
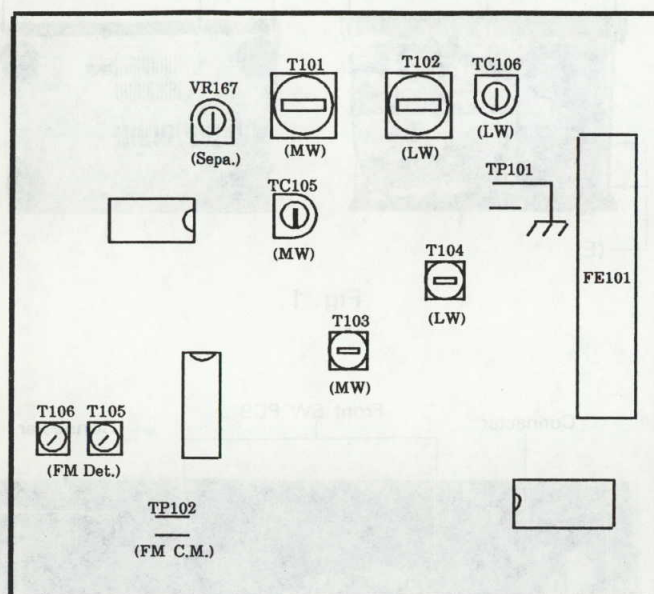


Fig. 4

FM/AM Tuner Alignment Procedures



1. FM section

■ FM oscillator

- (1) Set the frequency display to "108.0MHz".
- (2) Confirm the FM inter-station noise is received.
- (3) Confirm the voltage of test point "TP101" becomes $8.0V \pm 2.0V$.
- (4) Set the frequency display to "87.5MHz" and confirm the voltage of test point "TP101" becomes $1.6V \pm 1.0V$.

■ FM detector coil : T105, T106

- (1) Connect a digital voltmeter to test point "TP 102", and receive to "100.1MHz" signal with SSG ATT 70dB.
- (2) Adjust T105 so that the digital voltmeter reads $0 \pm 1.5mV$.
- (3) At the same time, Adjust T106 so that the distortion of the output is minimised.

■ FM separation : VR167

(for Continental Europe, West Germany, Australia and the U.K.)

- (1) Receive a stereo signal
- (2) Adjust VR167 so that the channel separation becomes maximum.

2. MW section

Note : [] : for the U.S.A. and Canada
() : Australia, the U.K. and Continental Europe
{ } : Other countries
Channel space 9KHz
[] : Other countries
Channel space 10KHz

■ MW oscillator : T103

- (1) Set the frequency display to [530KHz] (522KHz) { 531KHz } [530KHz] and confirm the voltage of test point TP101 becomes $0.9V \pm 0.2V$.
- (2) Set the frequency display to [1710KHz] (1629KHz) { 1602KHz } [1600KHz] and confirm the voltage of test point TP101 becomes [$8.0V \pm 0.8V$] ($7.5V \pm 0.8V$) { $7.2V \pm 0.7V$ } [$7.2V \pm 0.7V$].
- (3) If its voltage exceeds the allowance, adjust T103 to obtain the voltage.

■ MW antenna coil : T101

- (1) Connect a loop antenna to the "AM Loop" terminal on the rear panel.
- (2) Adjust T101 to obtain the best receiving sensitivity on 600KHz or 603KHz.

■ MW antenna trimmer : TC105

- (1) Adjust TC105 to obtain the best receiving sensitivity on 1400KHz or 1404KHz.

3. LW section (for RX-503LBK)

Note : [] for Italy

■ LW oscillator : T104

- (1) Set the frequency display to 144KHz and adjust T104 so that the voltage of TP101 becomes $0.8V \pm 0.4V$ [$0.8V \pm 0.1V$].
- (2) Set the frequency display to 353KHz [290KHz] and confirm the voltage of test point TP101 becomes $7.7V \pm 0.6V$ [$5.7V \pm 0.5V$].

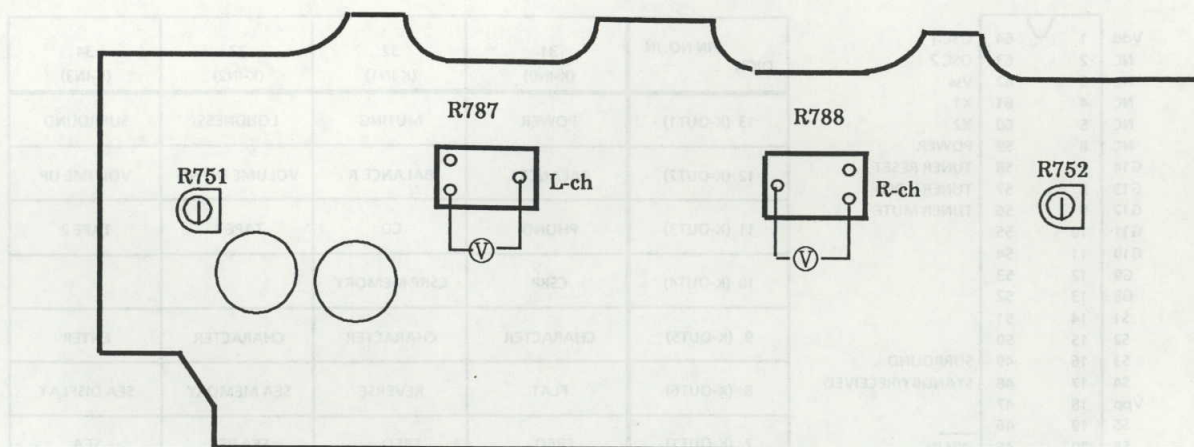
■ LW antenna coil : T102

- (1) Connect a loop antenna to the "AM Loop" terminal on the rear panel.
- (2) Adjust T102 to obtain the best receiving sensitivity on 164KHz [164KHz].

■ MW antenna trimmer : TC106

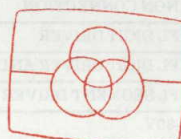
- (1) Adjust TC106 to obtain the best receiving sensitivity on 353KHz [245KHz].

Power Amplifier Adjustment Procedures



■ Idling Current

- (1) Turn R751 and R752 fully counterclockwise before the power switch on.
- (2) Warm up at least 5 minutes before adjustment.
- (3) Must keep the heatsink to prevent overheating before adjustment.
- (4) Set the volume control to minimum during this adjustment.
- (5) Connect a DC voltmeter to R787 resistor's leads for left channel, or to R788 for right channel.
- (6) Adjust R751 for left channel, or R752 for right channel, so that the DC voltmeter becomes 2mV ~ 7mV.



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Description of Major ICs

■ MN178122JNE : IC401 (System control & FL Driver)

1. Terminal Layout

Vdd	1	64	OSC 1
NC	2	63	OSC 2
NC	3	62	Vss
NC	4	61	X1
NC	5	60	X2
NC	6	59	POWER
G14	7	58	TUNER RESET
G13	8	57	TUNER HOLD
G12	9	56	TUNER MUTE
G11	10	55	
G10	11	54	
G9	12	53	
G8	13	52	
S1	14	51	
S2	15	50	
S3	16	49	SURROUND
S4	17	48	STANDBY/RECEIVED
Vpp	18	47	
S5	19	46	
S6	20	45	INH IN
S7	21	44	REMOTE IN
S8	22	43	RESET IN
S9	23	42	DCS OUT 1
S10	24	41	SEA CLK
S11	25	40	SEA DATA
S12	26	39	STB
S13	27	38	DATA
S14	28	37	DCS IN 1
S15	29	36	CLK
NC	30	35	TEST
KEY IN0	31	34	KEY IN3
KEY IN1	32	33	KEY IN2

2. Table of Key Matrix

PIN NO. IN DIGIT	31 (K-IN0)	32 (K-IN1)	33 (K-IN2)	34 (K-IN3)
13 (K-OUT1)	POWER	MUTING	LOUDNESS	SURROUND
12 (K-OUT2)	BALANCE L	BALANCE R	VOLUME DOWN	VOLUME UP
11 (K-OUT3)	PHONO	CD	TAPE 1	TAPE 2
10 (K-OUT4)	CSRP	CSRP MEMORY		
9 (K-OUT5)	CHARACTER	CHARACTER	CHARACTER	ENTER
8 (K-OUT6)	FLAT	REVERSE	SEA MEMORY	SEA DISPLAY
7 (K-OUT7)	FREQ -	FREQ +	SEA REC	SEA
6 (K-OUT8)	LEVEL -	LEVEL +	PRESET -	PRESET +

3. Pin Functions

Pin No.	Name	I/O	Functions and descriptions
1	Vdd	—	+5V
2,3	NC	—	NON CONNECTION
4,5	G16~G18	O	FL DIGIT DRIVER
6~13	G15~G8	O	FL DIGIT DRIVER AND KEY MATRIX OUTPUT
14~17	S1~S4	O	FL SEGMENT DRIVER
18	Vpp	—	-30V
19~30	S5~S16	O	FL SEGMENT DRIVER
31~34	K-IN0~K-IN3	I	KEY MATRIX INPUT
35	TEST	—	TEST MODE INPUT (CONNECT TO GND).
36	CLK	O	SERIAL CLOCK OUTPUT TO IC321:TC9164N AND IC361:TC9177P
37	DCS IN 1	I	COMPULINK SIGNAL INPUT
38	DATA	O	SERIAL DATA OUTPUT TO IC 321:TC9164N AND IC361:TC9177P
39	STB	O	STROBE OUTPUT TO IC321:TC9164N AND IC361:TC9177P
40	SEA DATA	O	SEA DATA OUTPUT TO IC504:LC7522
41	SEA CLK	O	SEA CLK OUTPUT TO IC504:LC7522
42	DCS OUT1	O	COMPULINK SIGNAL OUTPUT
43	RESET IN	I	RESET SIGNAL INPUT
44	REMOTE IN	I	REMOTE CONTROLE SIGNAL INPUT
45	INH IN	I	POWER ON/OFF DETECTION
46,47	—	—	NOT USED (CONNECT TO GND)
48	STANDBY/ RECEIVED	O	REMOTE CONTROL STANDBY/RECEIVED LED LIGHT
49	SURROUND	O	SURROUND ON/OFF SIGNAL OUTPUT
50~55	—	—	NOT USED (CONNECT TO GND)
56	TUNER MUTE	O	TUNER MUTING OUTPUT. "H" OUTPUT WHEN MUTE TURNS ON.
57	TUNER HOLD	O	HOLD SIGNAL OUTPUT.
58	TUNER RESET	O	TUNER RESET OUTPUT
59	POWER	O	POWER ON/OFF OUTPUT
60	X2	—	NON CONNECTION
61	X1	—	NOT USED(CONNECT TO GND)
62	VSS	—	CONNECT TO GND
63	OSC 2	—	CONNECT TO CERAMIC RESONATOR
64	OSC 1	—	CONNECT TO CERAMIC RESONATOR

LC6514B-4131 :IC421 (Tuner Control & FL Driver)

1. Terminal Layout

K IN 12	1	42	K IN 11
K IN 13	2	41	K IN 10
INT	3	40	VDD
DCS IN 2	4	39	HOLD
NC	5	38	VP
SI	6	37	MUTE
CK	7	36	D8
SD	8	35	D7
STB	9	34	G1
DCS OUT 2	10	33	G2
TUNED	11	32	G3
STEREO	12	31	G4
NC	13	30	G5
NC	14	29	G6
S16	15	28	G7
S17	16	27	S23
S18	17	26	S22
S19	18	25	S21
RES	19	24	S20
TEST	20	23	OSC 2
VSS	21	22	OSC 1

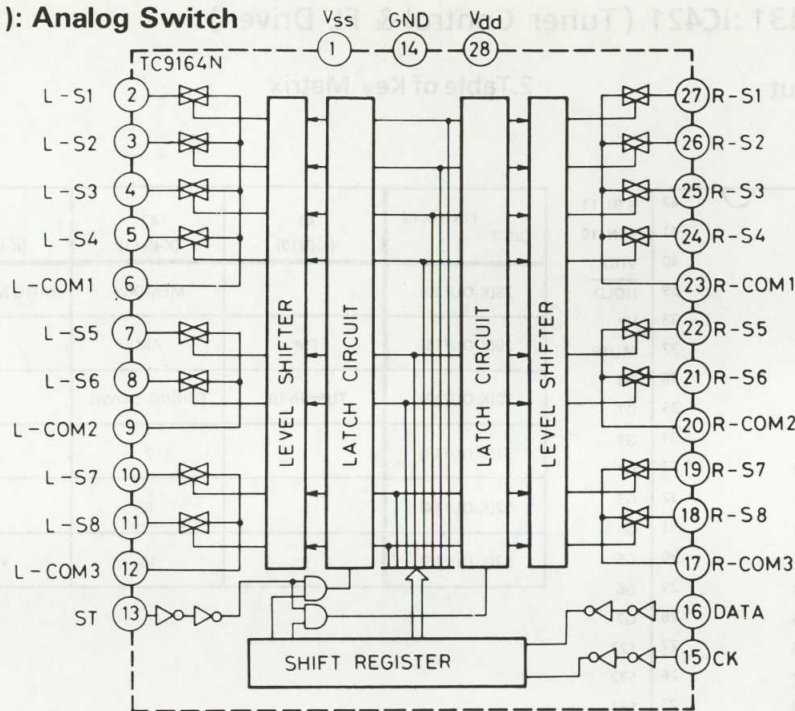
2. Table of Key Matrix

PIN NO. IN DIGIT	41 (K-IN10)	42 (K-IN11)	1 (K-IN12)	2 (K-IN13)
28(K-OUT10)		MEMORY	AUTO MEMORY	
29(K-OUT11)	FM	AM		MODE
30(K-OUT12)	TUNING UP	TUNING DOWN		
31(K-OUT13)	1	2	3	4
32(K-OUT14)	5	6	7	8
33(K-OUT15)	9	10	+ 10	PRESET SCAN

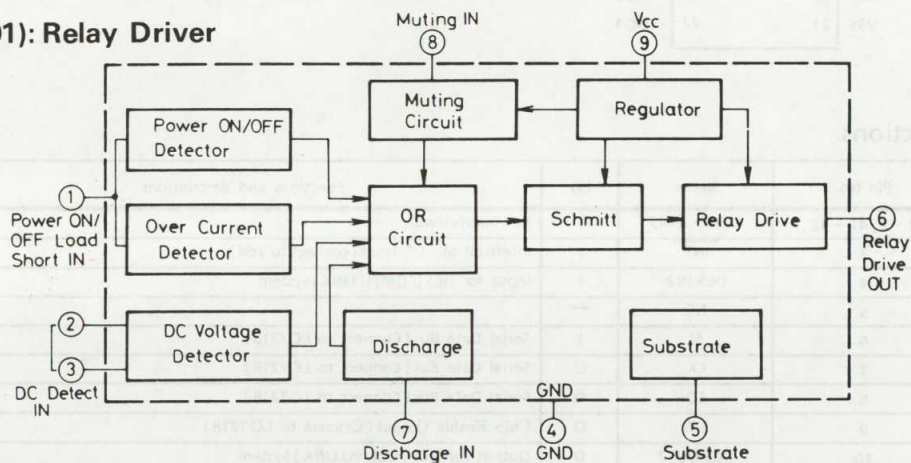
3. Pin Functions

Pin No.	Name	I/O	Functions and descriptions
1 ~ 2, 41 ~ 42	KIN0 ~ KIN3	I	Key matrix input
3	INT	I	Interrupt at "L" level.(connect to Vdd)
4	DCS-IN2	I	Input for DCS (COMPU LINK) system
5	NC	--	
6	SI	I	Serial Data Bus (Connect to LC 7218)
7	CK	O	Serial Data Bus (Connect to LC 7218)
8	SD	O	Serial Data Bus (Connect to LC 7218)
9	STB	O	Chip Enable Output (Connect to LC 7218)
10	DCS-OUT2	O	Output for DCS (COMPU LINK) System
11	TUNED	I	Input for TUNED indicator
12	STEREO	I	Input for STEREO indicator
13	NC	--	
14	NC	--	
15 ~ 18	S16 ~ S19	O	Segment output
19	RES	I	Reset input
20	TEST	I	TEST mode input : GND.
21	VSS		GND.
22	OSC 1		Connect to Crystal oscillator
23	OSC 2		Connect to Crystal oscillator
24 ~ 27	S20 ~ S23	O	Segment output
28 ~ 33	G7 ~ G2		Digit Output and Key matrix output
34	G1		DIGIT OUTPUT (GRID)
35,36	D7,D8		Keymatrix output
37	Tuner Mute	O	" H " outputs when mute turns on
38	VP		-32V
39	HOLD	I	Hold Request input
40	VDD		+ 5V

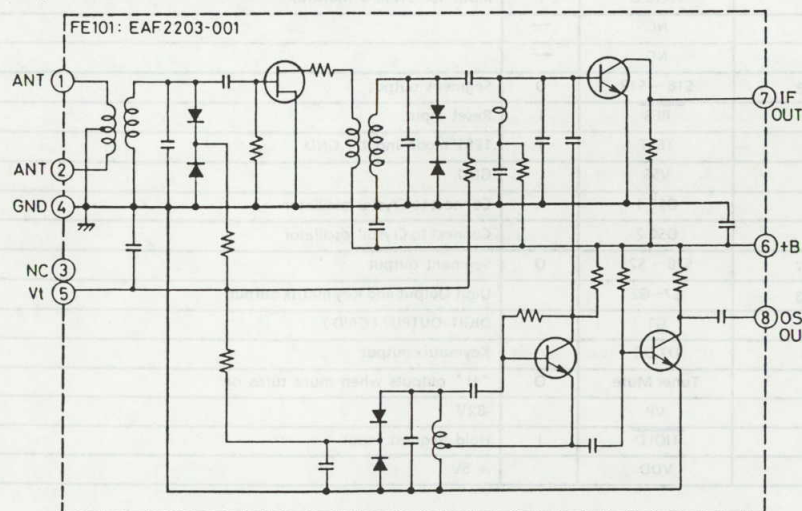
■ TC9164N(IC321): Analog Switch



■ TA7317P (IC901): Relay Driver

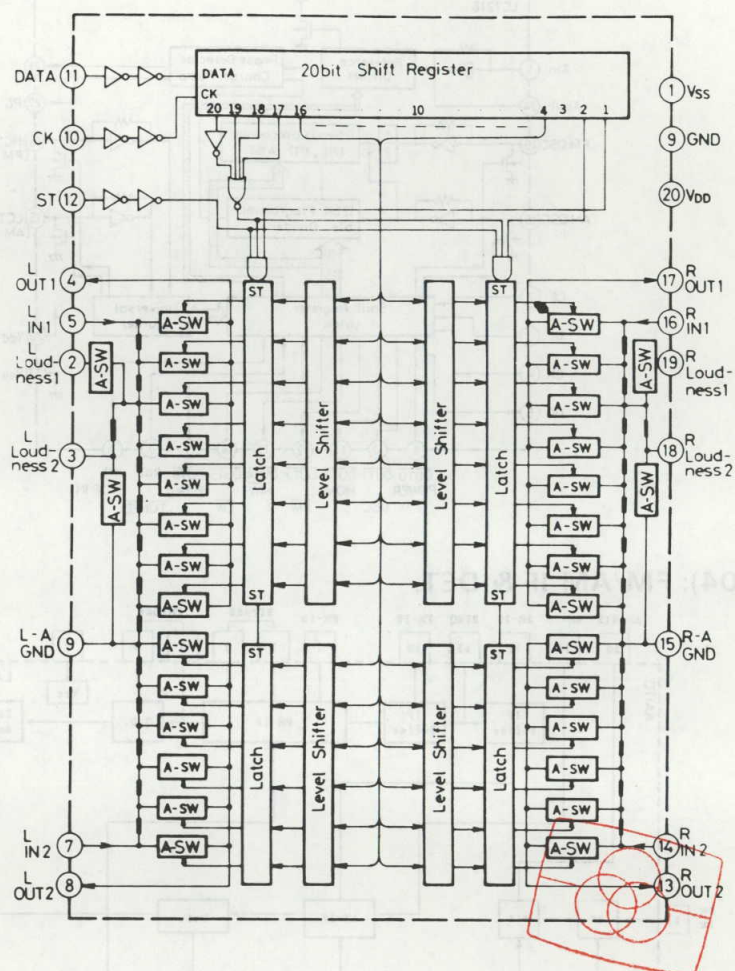


■ EAF2203-001 (FE101): FM Front-end Pack



■ TC9177P (IC361) : Electronic Volume

(1) Block Diagram



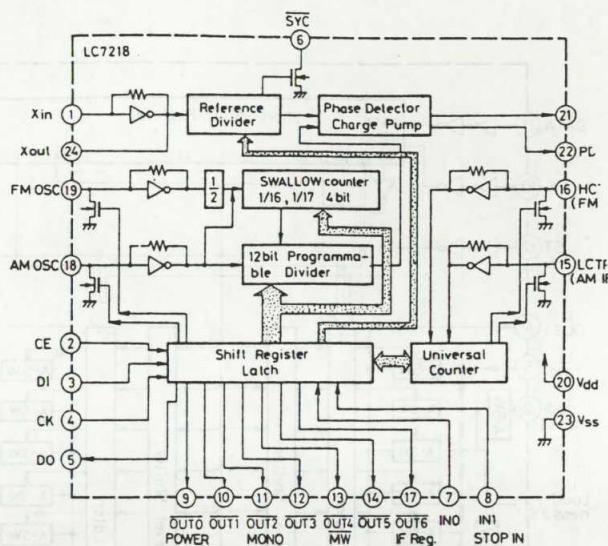
(2) Pin Functions

Pin No.	Symbol	Function
1	V _{SS}	(-) Power Supply
2	L Loudness1	Terminal for Loudness (L-ch)
3	L Loudness2	Terminal for Loudness (L-ch)
4	L-OUT1	10dB Step Attenuator Output
5	L-IN1	10dB Attenuator Input
6	A-GND	Ground (Power Supply)
7	L-IN2	2dB Attenuator Input
8	L-OUT2	2dB Step Attenuator Output
9	GND	Ground (Signal)
10	CK	Clock Input
11	DATA	Data Input
12	ST	Strobe Input
13	R-OUT2	2dB Step Attenuator Output
14	R-IN2	2dB Attenuator Input
15	A-GND	Ground (Power Supply)
16	R-IN1	10dB Attenuator Input
17	R-OUT1	10dB Step Attenuator Output
18	R-Loudness2	Terminal for Loudness (R-ch)
19	R-Loudness1	Terminal for Loudness (R-ch)
20	V _{DD}	(+) Power Supply

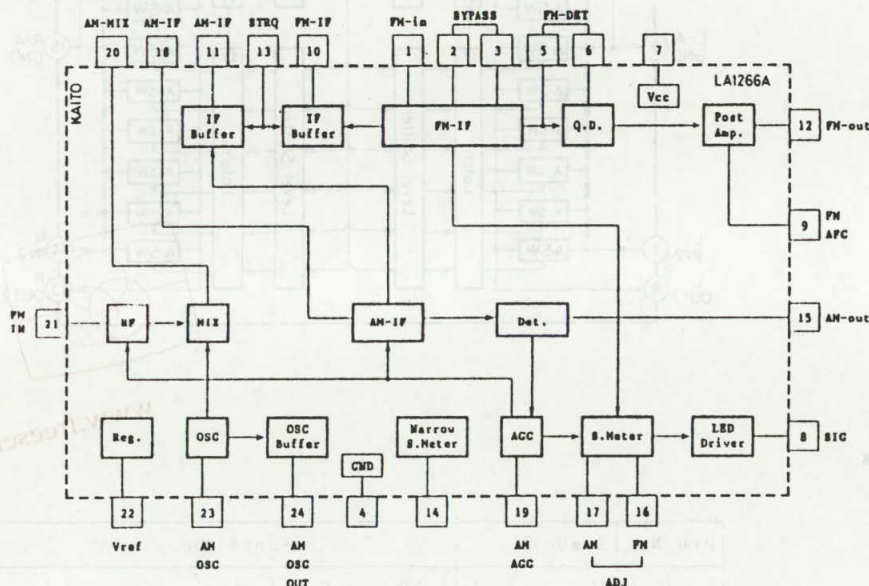
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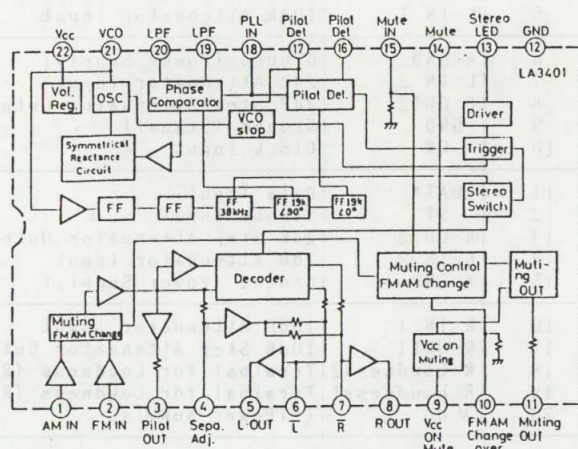
■ LC7218(IC102): PLL Synthesizer



■ LA1266A(IC104): FM/AM IF & DET.



■ LA3401(IC105): FM M.P.X.

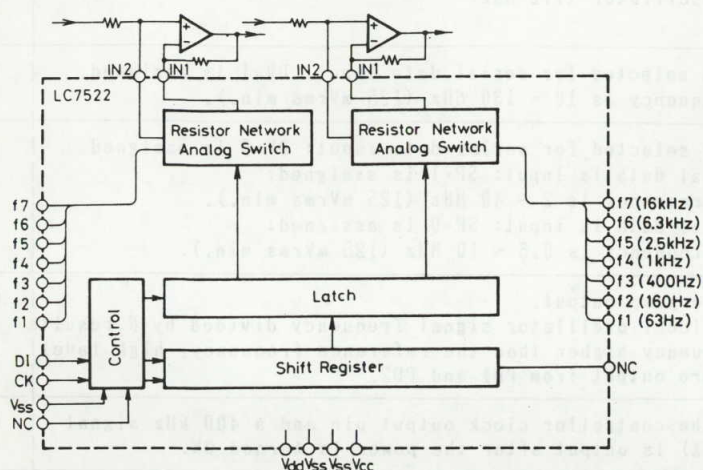


■ LC7218(IC102): PLL Synthesizer

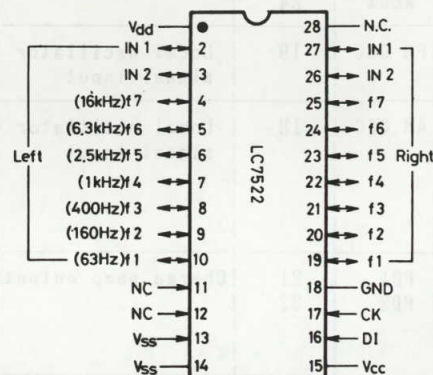
Symbol	Pin No.	Details	Function	I/O
Xin Xout	1 24	X'tal OSC	•Crystal oscillator (7.2 MHz)	I
FM OSC	19	Local oscillator signal input	•FM OSC is selected for serial data input: DV=1 is assigned. •Input frequency is 10 ~ 130 MHz (125 mVrms min.).	I
AM OSC	18	Local oscillator signal input	•AM OSC is selected, for serial data input: DV=0 is assigned. •When serial data is input: SP=1 is assigned: •Input frequency is 2 ~ 40 MHz (125 mVrms min.). •When serial data is input: SP=0 is assigned: •Input frequency is 0.5 ~ 10 MHz (125 mVrms min.).	I
PD1 PD2	21 22	Charge pump output	•PLL charge pump output. When the local oscillator signal frequency divided by N results in a frequency higher than the reference frequency, high level signals are output from PD1 and PD2.	O
SYC	6	Controller clock	•This is the controller clock output pin and a 400 kHz signal (duty 66 %) is output after the power is turned ON.	O
V dd	20	Power supply	•Power supply pin for LC7218. It supplies 4.5 ~ 6.5 V when the PLL circuit is activated.	-
V ss	23	Ground	•GND pin of LC7218.	-
CE	2	Chip enable	•This pin goes high when serial data is input (DI) to LC7218 or output from it.	I
CK	4	Clock	•This clock is used to synchronize data when serial data is input (DI) to or output (DO) from LC7218.	I
DI	3	Input data	•Input pin for serial data which is transmitted from the controller to LC7218. •A total of 36 bits of data should be input for initialization.	I
DO	5	Output data	•Output pin for serial data transmitted from LC7218 to the controller. •A total of 24 bits can be output from the internal shift register in synchronized with CK.	O
OUT 0 OUT 1 OUT 2 OUT 3 OUT 4 OUT 5 OUT 6	9 10 11 12 13 14 17	POWER QSC MONO FM MW LW IF Reg.	•Latches OUT 0 ~ OUT 6 of the serial data transmitted from the controller, and inverts the data to output it in parallel. •OUT 0 can outputs the time base for clock (8 Hz). (When TB = 1.) •OUT 1 and OUT 2 are complementary outputs. •OUT 0, OUT 3, OUT 4, OUT 5 and OUT 6 are N-ch open drain outputs (up to 13 V).	O
IN 0 IN 1	7 8	TUNED STOP IN	•The data at input ports IN 0, IN 1 is converted from parallel to serial, and can be output from output pin DO.	I
HCTR (FM IF)	16	General purpose measurement signal input pin	•With serial data input: SC = 1, HCTR is selected. •The signal is transmitted to the general-purpose counter (20-bit binary counter) via a 1/8 divider internally.	I
LCTR (AM IF)	15	General purpose counter frequency input pin	•With serial data input: SC = 0, LCTR is selected. •At this time, if serial data is input: SF = 1 ; •The signal is transmitted directly to the general-purpose counter without passing through the internal 1/8 divider. •If serial data is input SF = 0 ; •Input frequency is 1 Hz ~ 20kHz (V IH = 0.7 V DD min., V IL = 0.3 V DD max.)	I

■ LC7522(IC504):SEA Controller

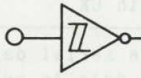
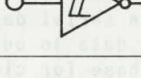
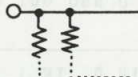
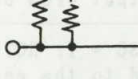
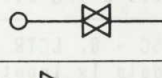
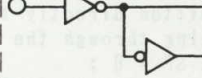
1. Block Diagram



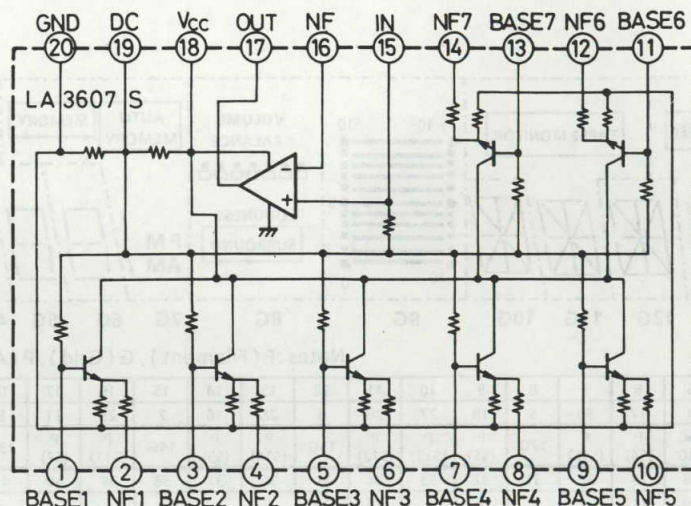
2. Terminal Layout



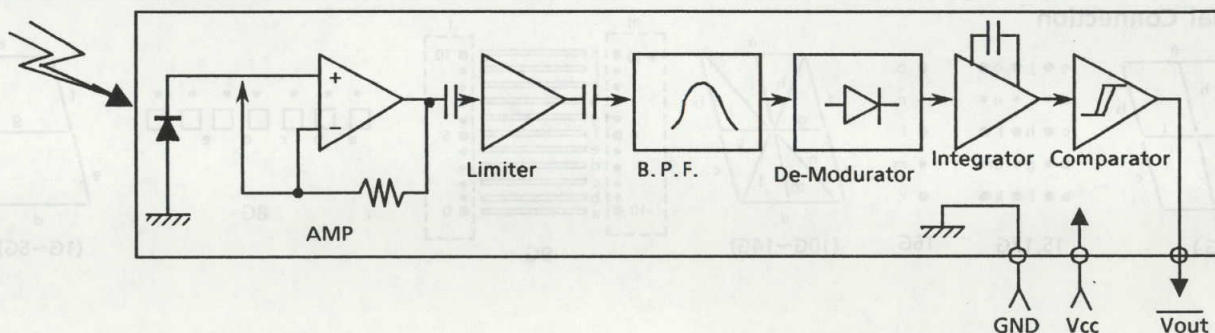
3. Terminal Functions

Name	Number	Terminal type	Explanation
V DD	1		+7V power supply for audio signal
V ref	15	----	+5V power supply for operating the microcomputer
V SS	18		0V
V EE	14		-7V power supply for audio signal
DI	16		For data input from CPU (Schmitt inverter type)
CLK	17		For clock input from CPU(Schmitt inverter type)
GND	---	----	Audio signal line GND
IN1	2,27		For audio signal input IN1 connected to the inversion input of the operation amplifier
IN2	3,26		IN2 connected to the non-inversion input of the operation amplifier Provided for both left and right channels.
f1~f7	10~4, 19~25		For connection to the band pass filter f1~f7 for left and right channels (total 14)
S	13		Select terminal when using 2 chips 7C3 is connected to Vdd with key code "1" input 7C2 is connected to Vee with key code "0" input

■ LA3607S (IC501, IC502): 7-segments SEA Equalizer.

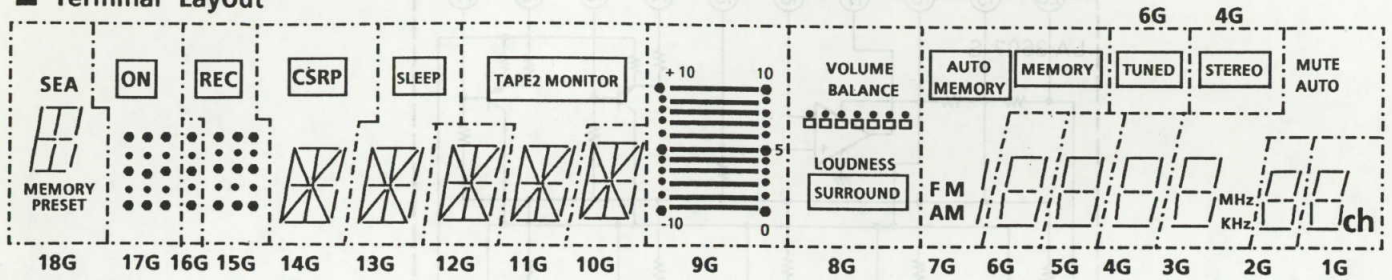


■ GP1U501X (IC402) : Remocon Module IC



Internal Wiring of FL Display (FL401:ELU0001-097)

Terminal Layout

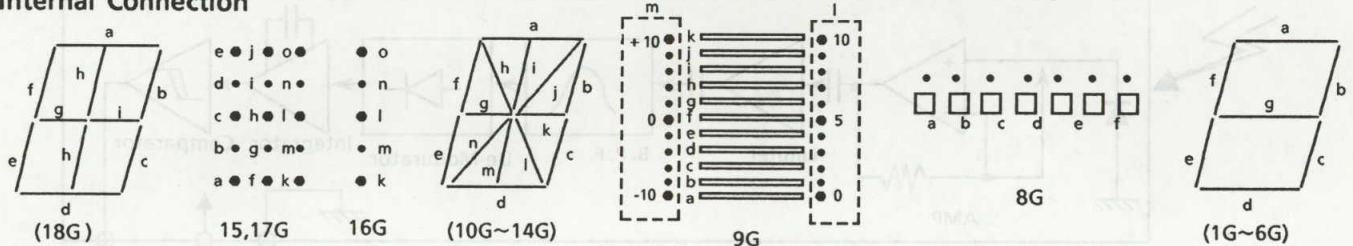


Terminal Connection

Notes : F (Filament) , G (Grid) , P (Anode) , NP (No Pin)

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
IC401 Pin No.	-	-	-	-	4	17	30	5	19	27	26	6	28	16	7	25	21	8	20	24	9	22	23
Electrode	F	F	NP	NC	16G	P (S4)	P (S16)	17G	P (S5)	P (S13)	P (S12)	15G	P (S14)	P (S3)	14G	P (S11)	P (S7)	13G	P (S6)	P (S10)	12G	P (S6)	P (S9)
Terminal No.	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
IC401 Pin No.	15	14	29	-	10	11	-	-	-	-	12	13	-	-	-	-	-	-	-	-	-	-	-
Electrode	P (S2)	P (S1)	P (S15)	NP	11G	10G	NC	NC	NC	NC	9G	8G	IC	IC	NP	NP	NP	NP	NP	NP	NP	NP	NP
Terminal No.	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	-
IC421 Pin No.	-	-	-	-	28	29	30	31	16	17	26	32	27	22	23	18	24	34	15	-	-	-	-
Electrode	NP	NP	NP	NP	7G	6G	5G	4G	P (S18)	P (S19)	P (S23)	3G	P (S24)	P (S22)	2G	P (S20)	P (S21)	1G	P (S17)	NP	F	F	-

Internal Connection



SOURCE SECTION

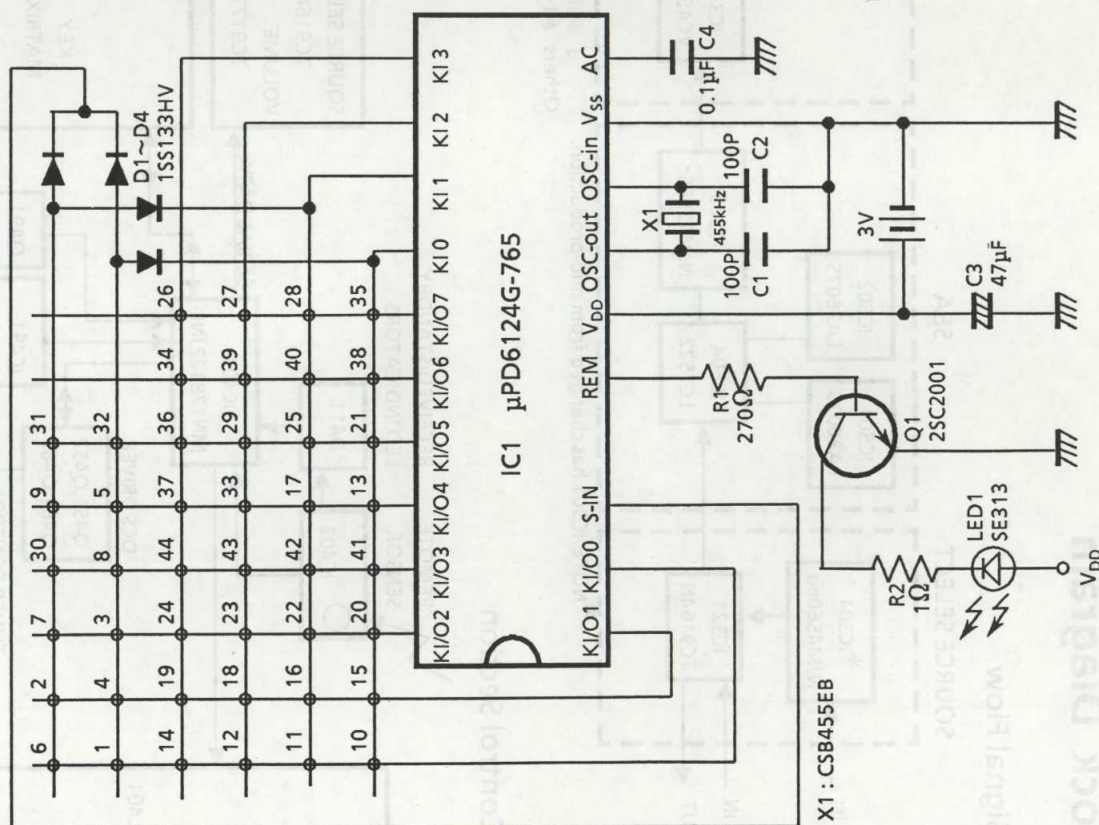
	18G	17G	16G	15G	14G	13G	12G	11G	10G	9G	8G
S1	a	j	-	j	a	a	a	a	a	-	BALANCE
S2	b	o	-	o	b	b	b	b	b	-	•••••
S3	-	b	l	b	c	c	c	c	c	f	LOUDNESS
S4	SEA PRESET	k	-	k	d	d	d	d	d	a	SURROUND
S5	d	f	-	f	e	e	e	e	e	b	a
S6	-	c	m	c	f	f	f	f	f	i	d
S7	g	h	-	h	g	g	g	g	g	h	c
S9	h	i	-	i	h	h	h	h	h	k	f
S9	-	d	n	d	i	i	i	i	i	l	g
S10	f	n	-	n	j	j	j	j	j	j	e
S11	i	m	-	m	k	k	k	k	k	g	b
S12	e	l	-	l	l	l	l	l	l	d	-
S13	-	a	k	a	m	m	m	m	m	c	-
S14	c	g	-	g	n	n	n	n	n	e	-
S15	-	e	o	e	CSRP	SLEEP	-	TAPE2 MONITOR	-	-	VOLUME
S16	MEMORY	ON	-	REC	-	-	•	-	-	m	-

TUNER SECTION

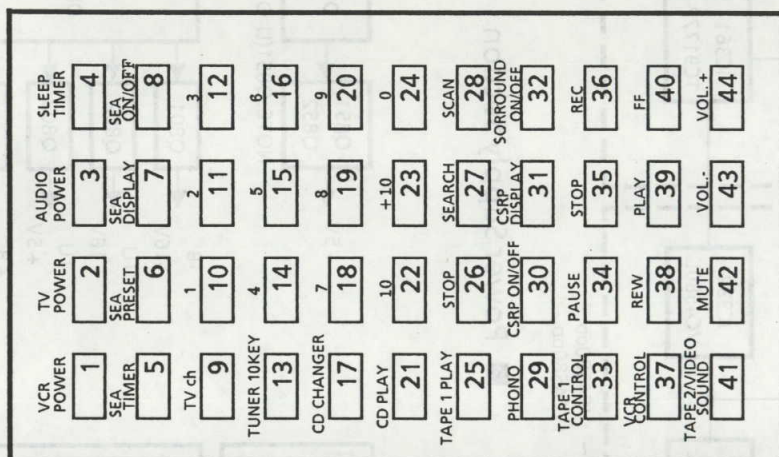
	7G	6G	5G	4G	3G	2G	1G
S17	-	TUNED	•	STEREO	MUTE AUTO	-	ch
S18	AUTO MEMORY	a	a	a	-	a	a
S19	-	b	b	b	MHz	c	c
S20	MEMORY	c	c	c	KHz	c	c
S21	-	d	d	d	g	d	d
S22	FM	e	e	e	c, f	e	e
S23	AM	f	f	f	b, e	f	f
S24	/	g	g	g	a, d	g	g

Remote Control Unit (RM-SR503U)

■ Schematic Diagram



■ Key Layout

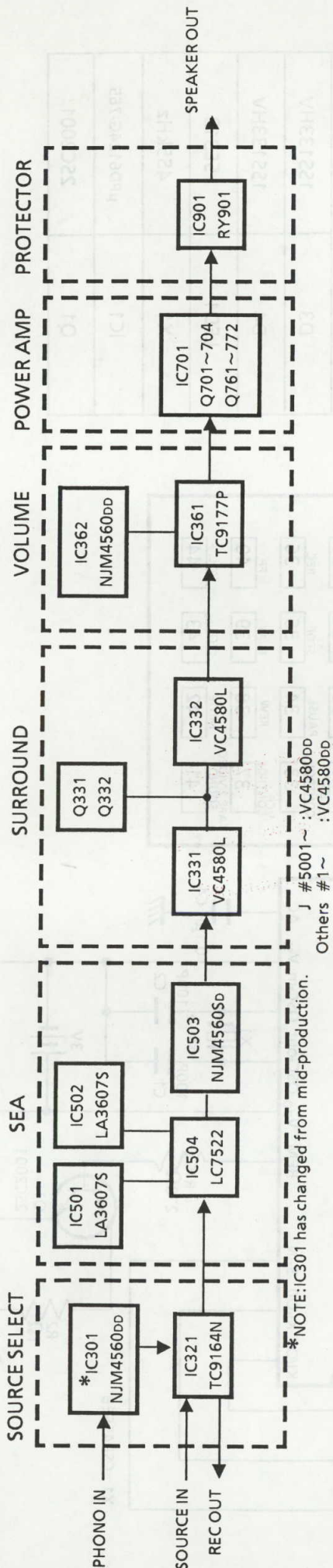


■ PARTS LIST

SYMBOL	DESCRIPTION
R1	270Ω
R2	1Ω
C1	100pF
C2	100pF
C3	47μF
C4	0.1μF
D1	1SS133HV
D2	1SS133HV
D3	1SS133HV
D4	1SS133HV
LED1	SE313
X1	455kHz
IC1	μPD6124G-765
Q1	2SC2001

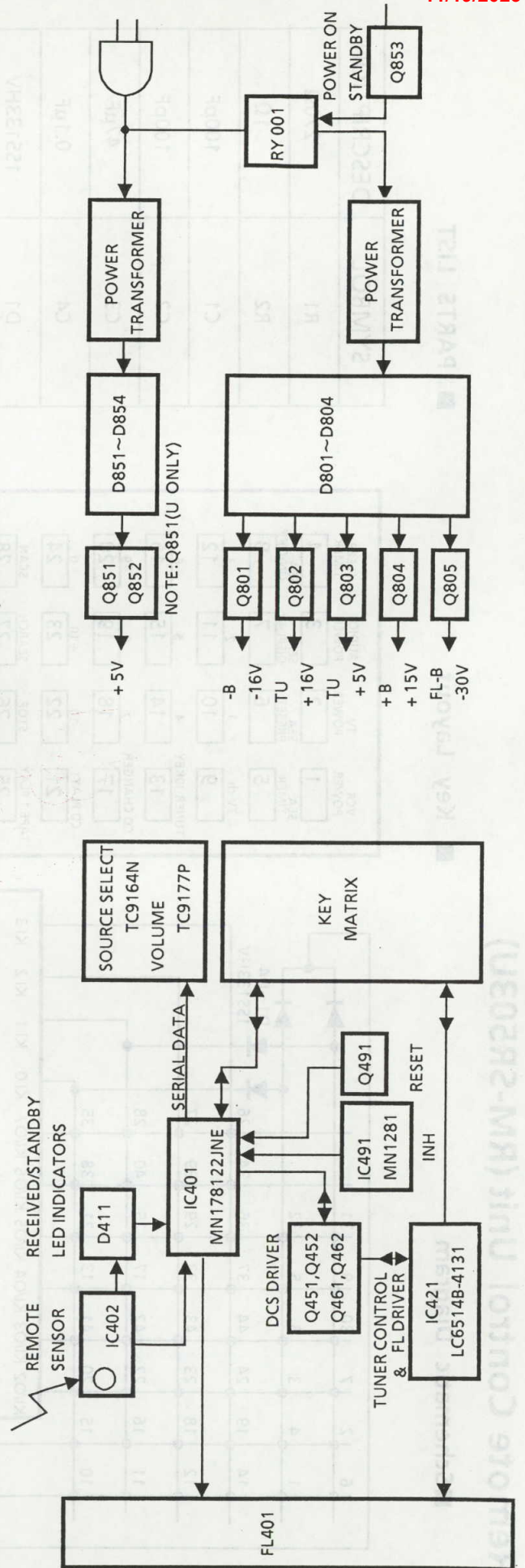
Block Diagram

■ Signal Flow

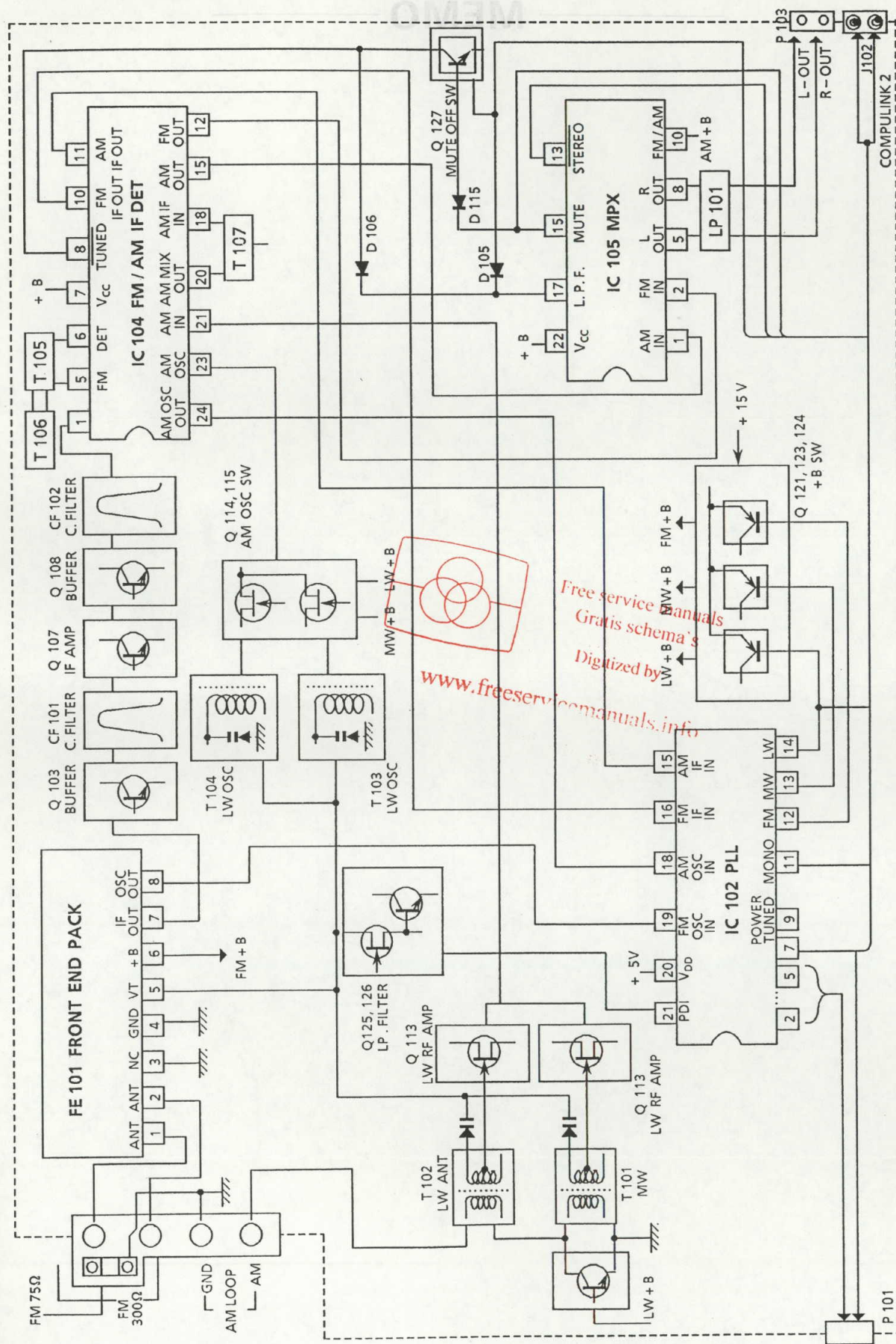


■ Control Section

■ Power Supply Section

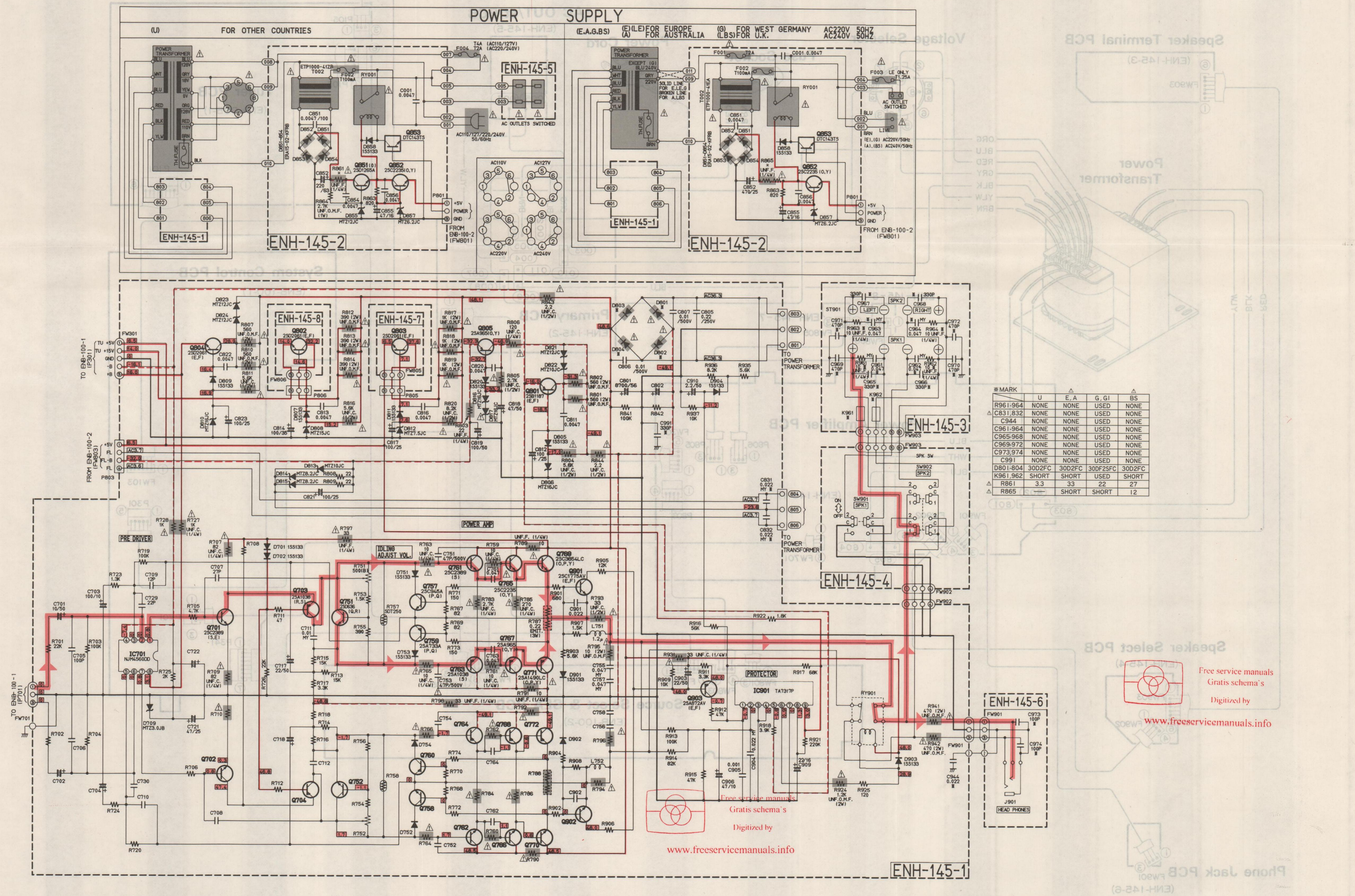


■ Tuner Section

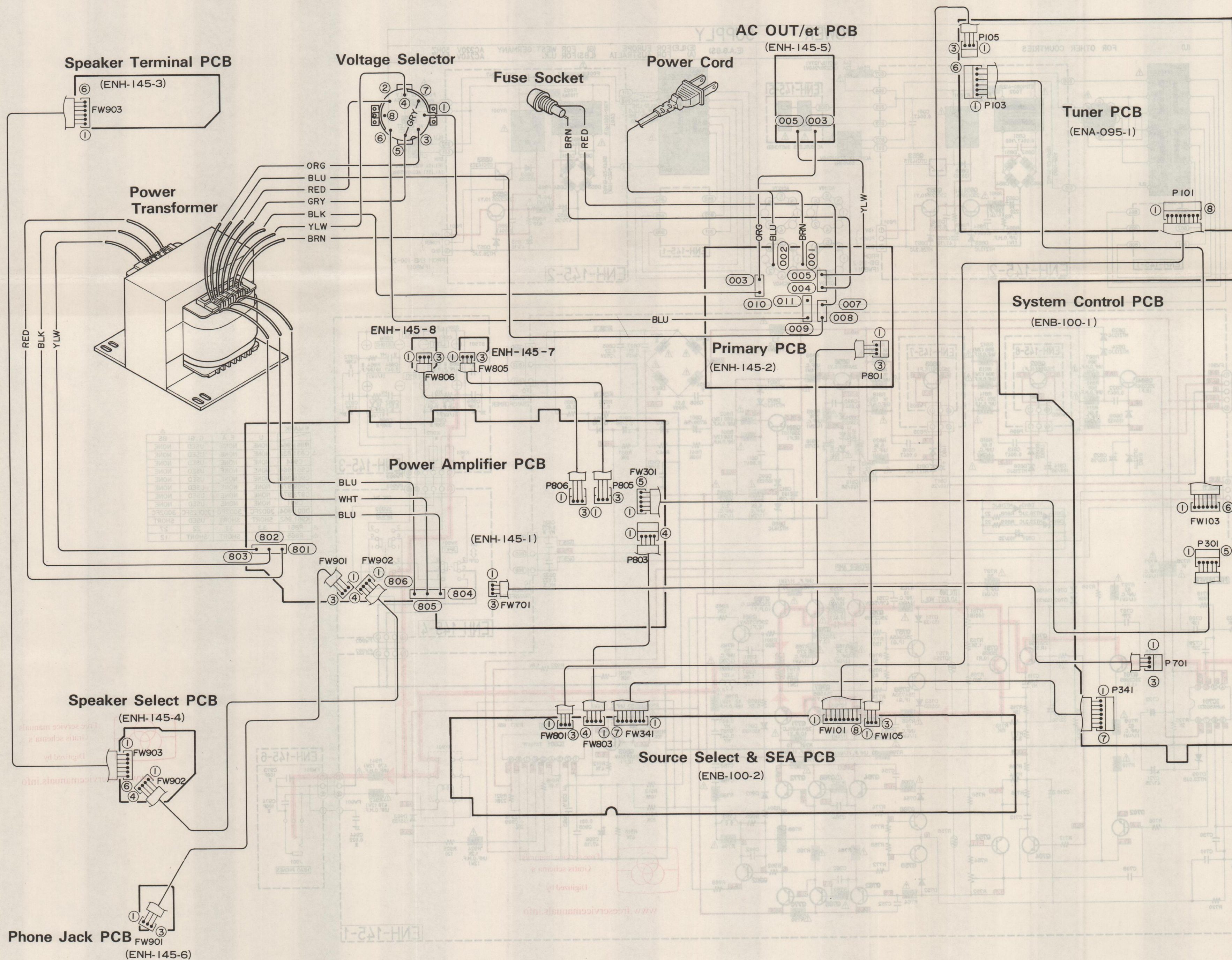


MEMO

(5) Power Amplifier & Power Supply Section



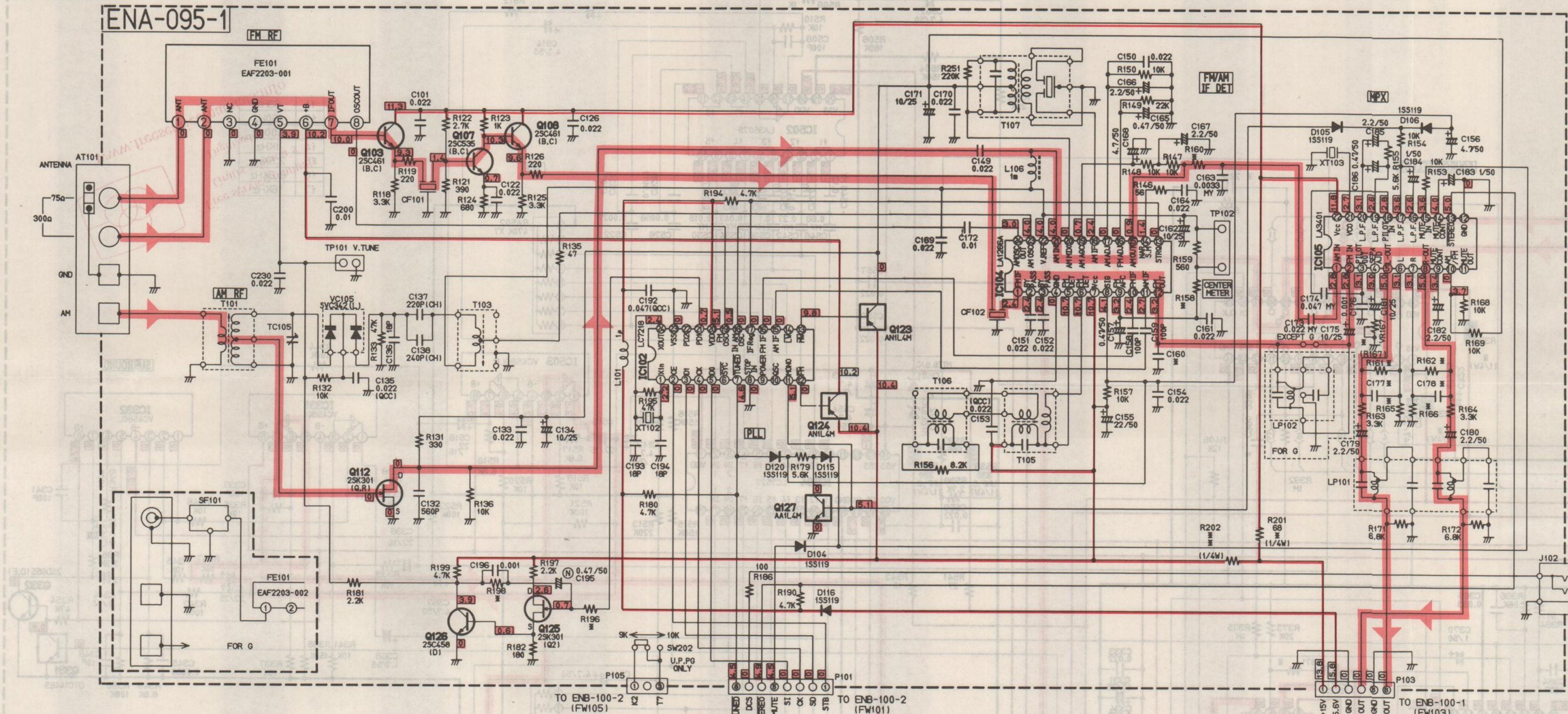
Connection Diagram



SCHEMATIC DIAGRAM

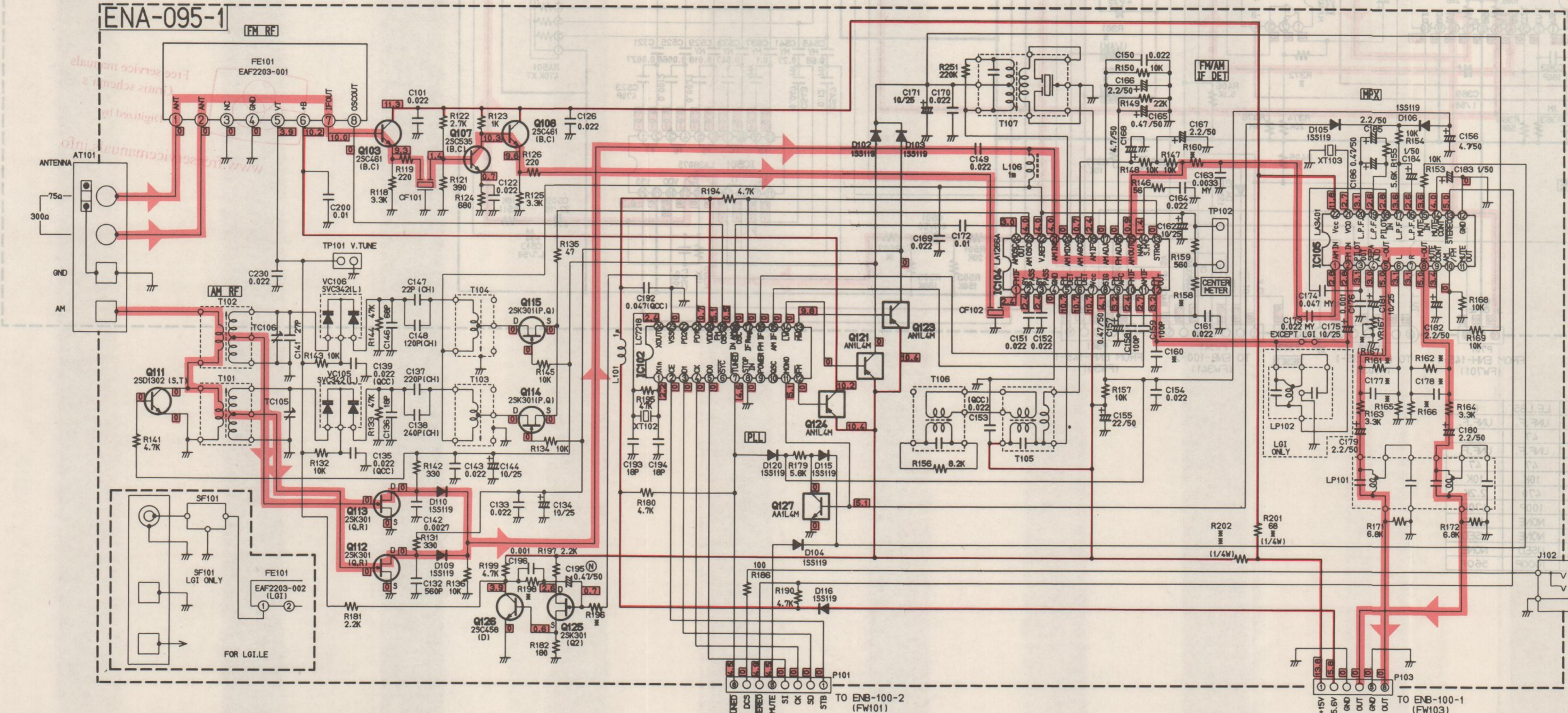
(1) Tuner Section

RX-503BK



* MARK	J.C	U.P.P.G.U.E	A	E.L.E.B.S.L.E.V	G.L.G.I
R158	18K	27K	27K	27K	27K
R160	12K	12K	22K	22K	22K
R161,162	120K	120K	180K	180K	180K
R165,166	180K	180K	270K	270K	270K
R167,VR167	39K	39K	100K VR	100K VR	100K VR
R196	10K	10K	10K	2.2K	2.2K
R198	3.3K	3.3K	3.3K	8.2K	8.2K
R201	UNF.C.	UNF.C.	UNF.F.	UNF.F.	UNF.F.
R202	47	47	47	47	22
C160	220P	220P	220P	100P	220P
C177,178	560P	560P	270P	270P	270P

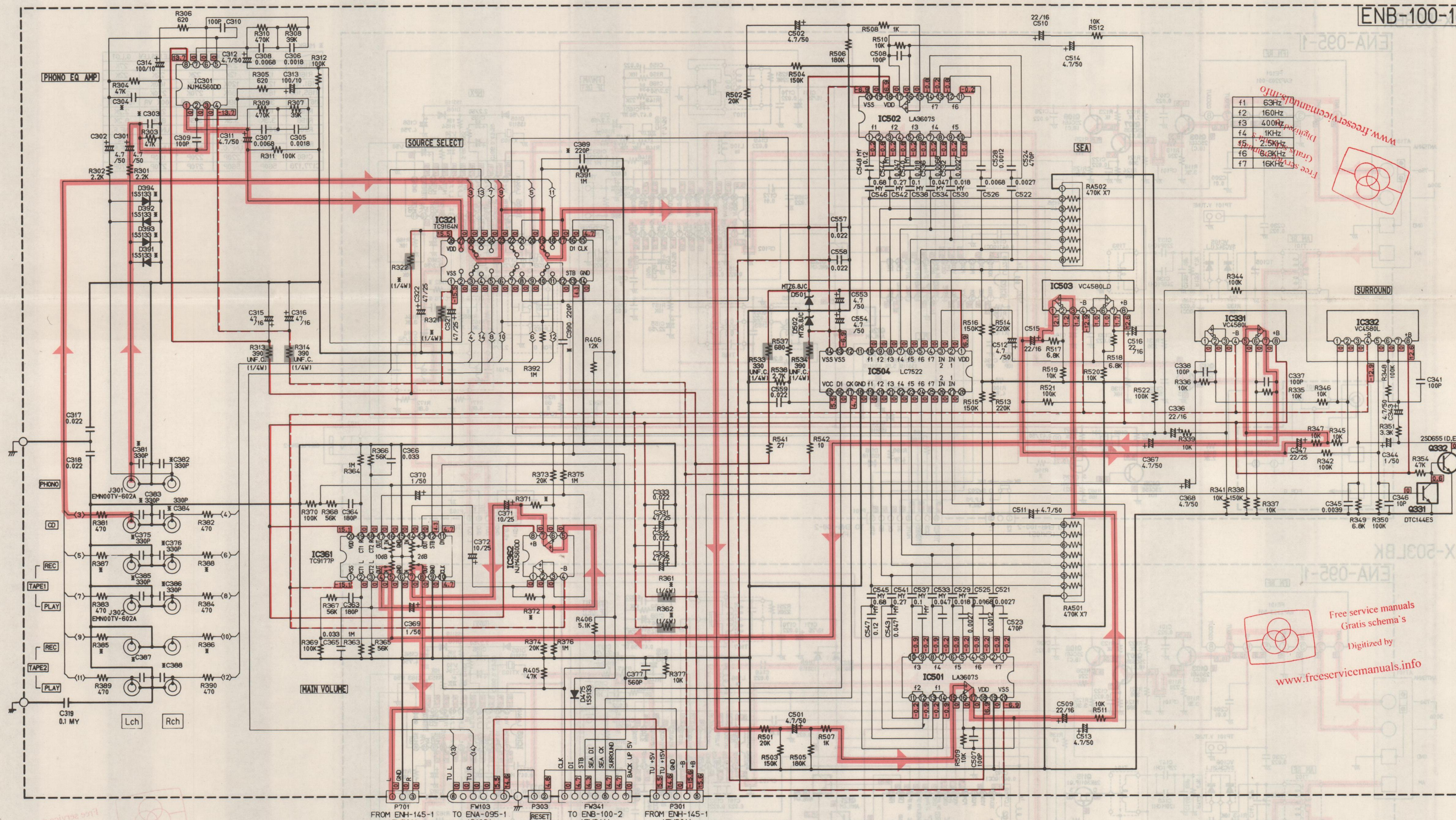
RX-503LBK



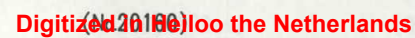
Free service manuals
Gratis schema's
Digitized by
www.freeservicemanuals.info

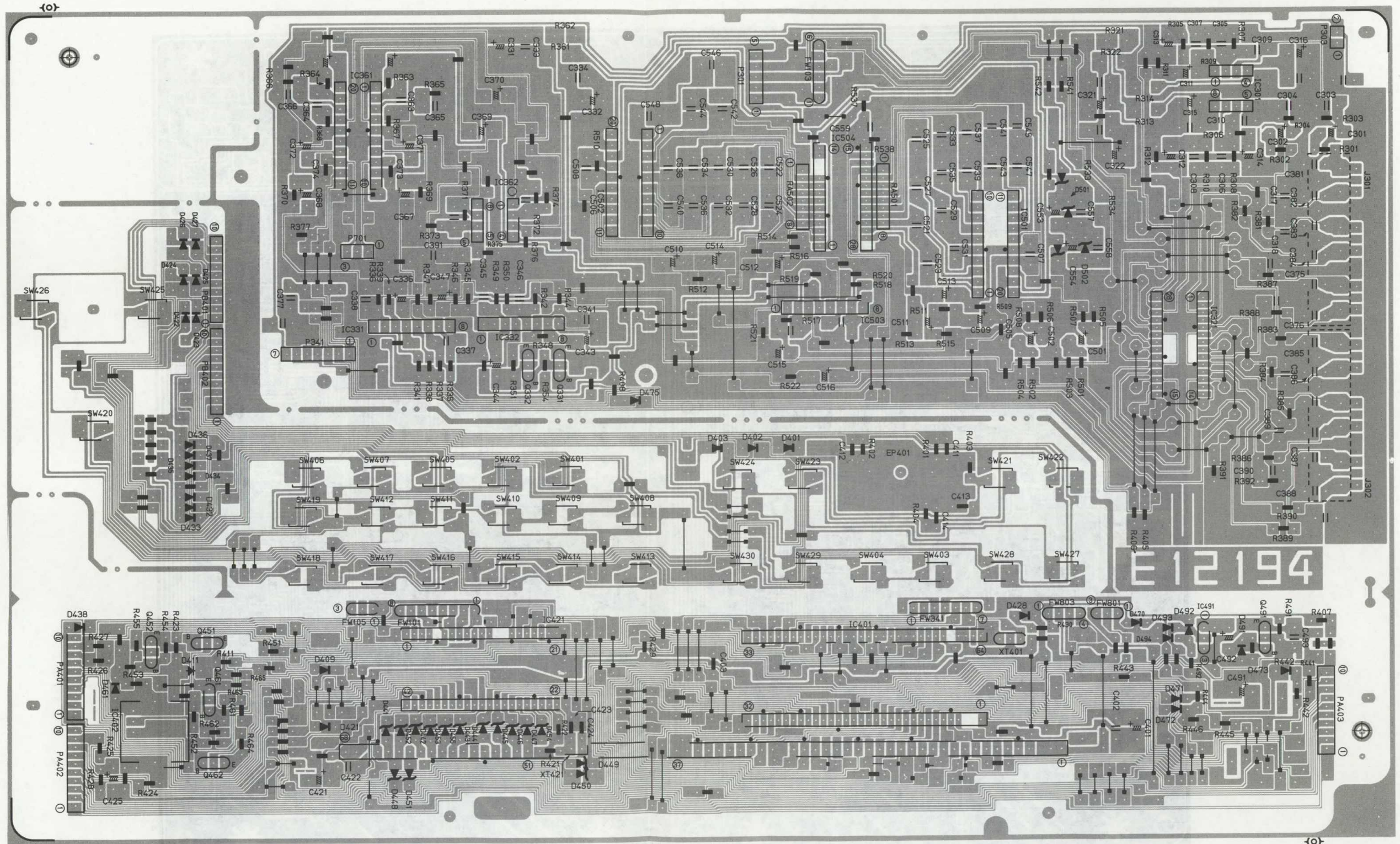
- Notes:
1. — indicates + B power supply.
 2. - - - indicates - B power supply.
 3. — indicates signal path.
 4. — shows voltage.
 5. When replacing the parts in the darkened area () and those marked with Δ, be sure to use the designated parts to ensure safety.
 6. The design and contents are subject to change without notice.

(2) Source Select & SEA Control Section



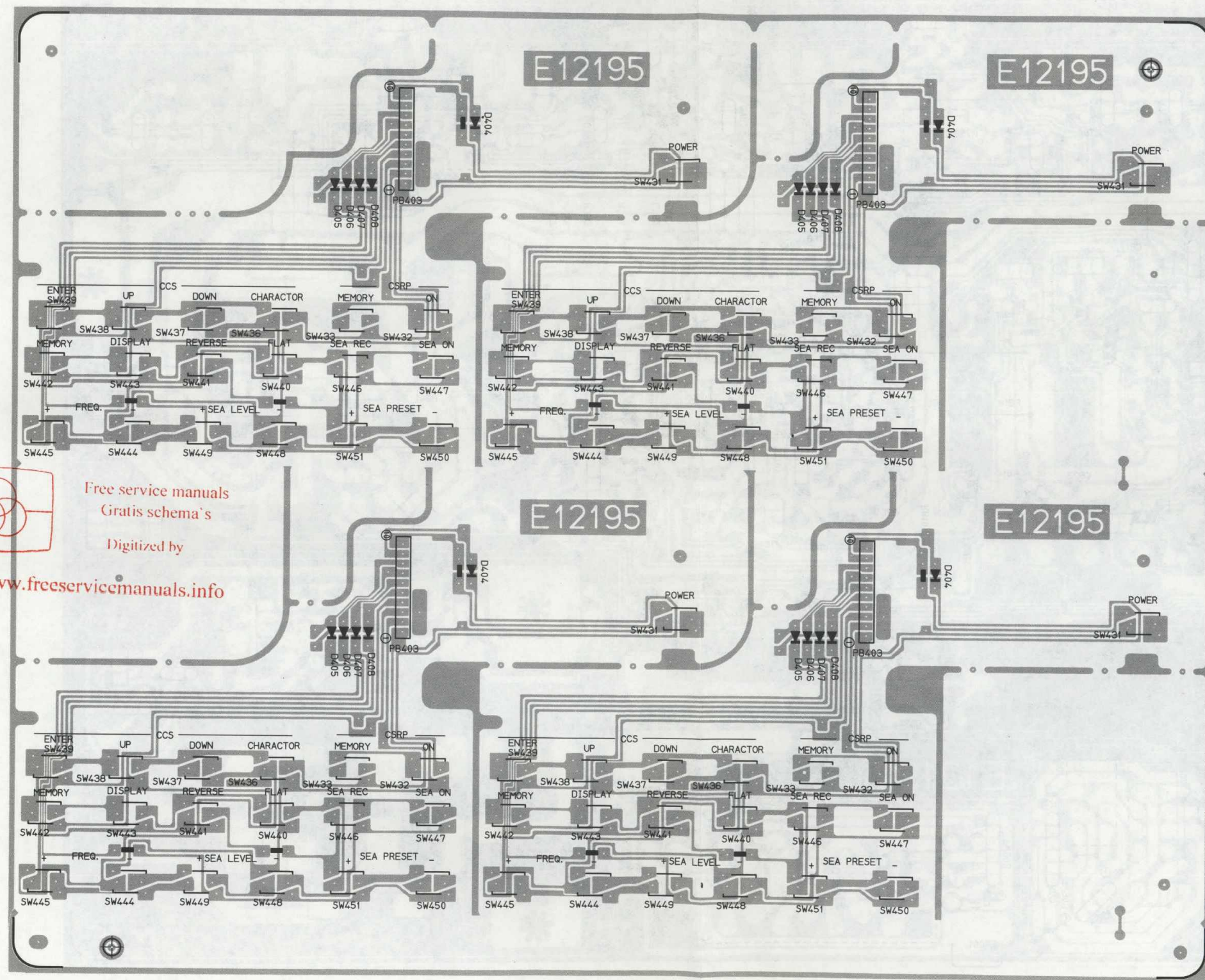
(1) Tuner Section PC Board





Printed Circuit Boards

(3) Front Switch PC Board

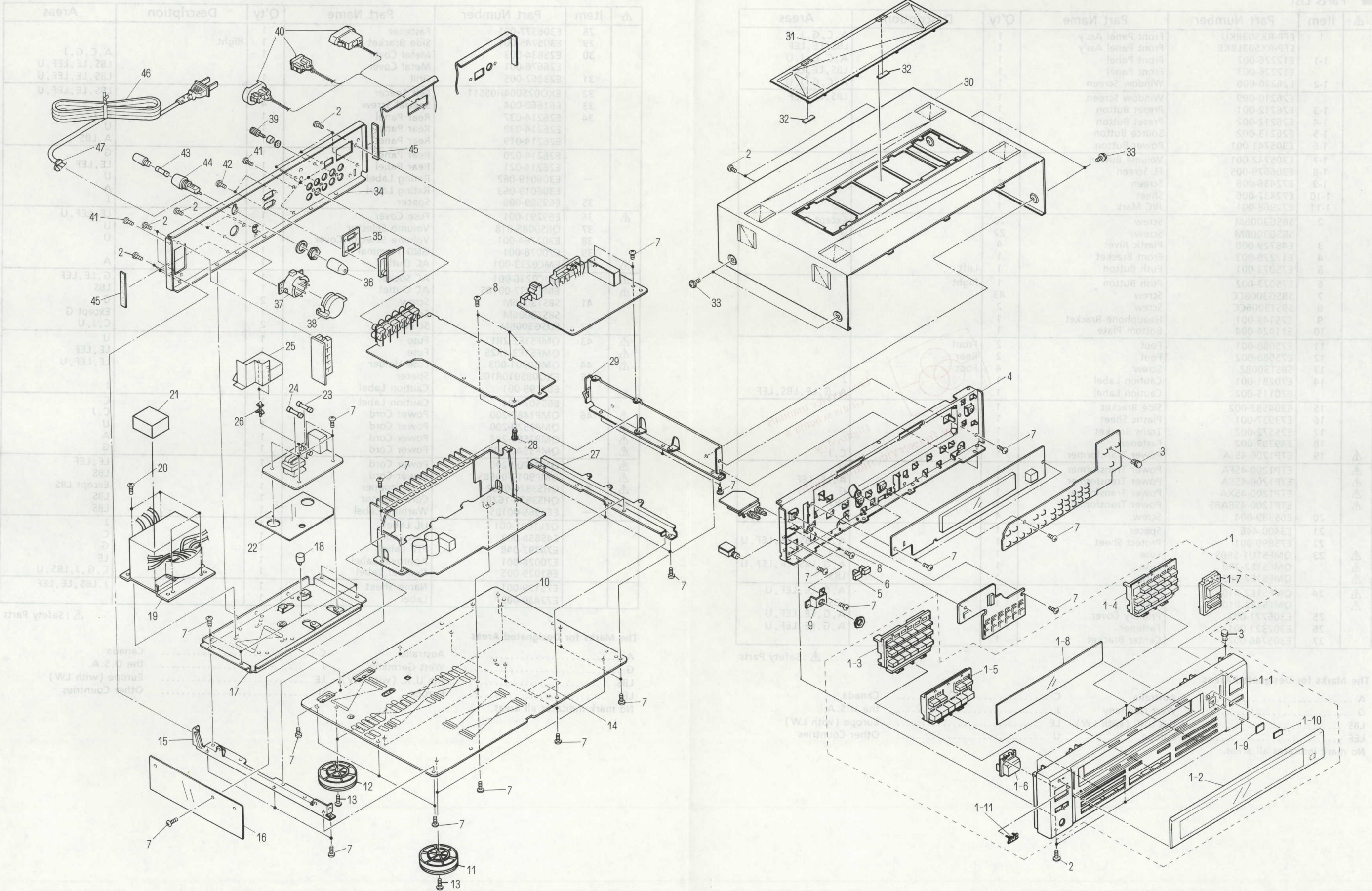


PARTS LIST

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General Exploded View and Parts List



Parts List

Item	Part Number	Part Name	Q'ty	Description	Areas
1	EFP-RX503BKU	Front Panel Ass'y	1		A, C, G, J, U
1-1	EFP-RX503LBKE	Front Panel Ass'y	1		LBS, LE, LEF
1-1	E12226-002	Front Panel	1		A, C, G, J, U
1-1	E12226-003	Front Panel	1		LBS, LE, LEF
1-2	E26210-008	Window Screen	1		A, C, G, J, U
1-3	E26210-009	Window Screen	1		LBS, LE, LEF
1-4	E26212-001	Preset Button	1		
1-5	E26212-002	Preset Button	1		
1-6	E26213-002	Source Button	1		
1-7	E305741-001	Power Button	1		
1-8	E305742-001	Volume Button	1		
1-9	E306679-005	FL Screen	1		
1-10	E72436-006	Screen	1		
1-11	E72437-006	Sheet	1		
1-11	E72968-001	JVC Mark	1		
2	SBSG3008M	Screw	20		Except U
3	SBSG3008M	Screw	22		U
4	E48729-008	Plastic Rivet	4		
5	E12228-003	Front Bracket	1		
5	E75073-001	Push Button	1	Left	
6	E75073-002	Push Button	1	Right	
7	SBSG3008CC	Screw	43		
8	SBST3006CC	Screw	2		
9	E75143-001	Headphone Bracket	1		
10	E11424-004	Bottom Plate	1		
11	E75088-001	Foot	2	Front	
12	E75088-002	Foot	2	Rear	
13	SBST3008Z	Screw	4	Foot	
14	E70281-001	Caution Label	1		J
14	E70115-002	Caution Label	1		A, G, LE, LBS, LEF
15	E304583-002	Side Bracket	1	Left	
16	E73937-001	Plastic Sheet	1		
17	E25572-002	Trans Bracket	1		
18	E49383-002	Fastener	1		
19	ETP1200-45JA	Power Transformer	1		C, J
20	ETP1200-45FA	Power Transformer	1		U
20	ETP1200-45EA	Power Transformer	1		A, LE, LEF
20	ETP1200-45XA	Power Transformer	1		G
20	ETP1200-45EABS	Power Transformer	1		LBS
20	E65389-004	Screw	4		
21	E3400-446	Spacer	1		
22	E75890-001	Protect Sheet	1		A, G, LBS, LE, LEF, U
23	QMF51U1-5R0S	Fuse	1		C, J
23	QMF51E2-2R0	Fuse	1		A, G, LBS, LE, LEF, U
23	QMF51E2-2R5BS	Fuse	1		LBS
24	QMF51E2-R10	Fuse	1		A, G, LE, LEF, U
24	QMF51E2-R10BS	Fuse	1		LBS
25	E306771-001	Primary Cover	1		A, G, LE, LEF, U
26	E302321-001	Fastener	2		A, G, LE, LEF, U
27	E305746-002	Center Bracket	1		

△ : Safety Parts

The Marks for Designated Areas

A	Australia	C	Canada
G	West Germany	J	the U.S.A.
LBS	the U.K. (with LW)	LE	Europe (with LW)
LEF	Europe	U	Other Countries
No mark indicates all areas.			

Parts List

Item	Part Number	Part Name	Q'ty	Description	Areas
28	E306377-001	Fastener	1		
29	E305745-001	Side Bracket	1	Right	
30	E25834-003	Metal Cover	1		A, C, G, J
30	E26676-001	Metal Cover	1		LBS, LE, LEF, U
31	E23862-005	Grill	1		LBS, LE, LEF, U
32	EXO025004H05S11	Felt Spacer	2		LBS, LE, LEF, U
33	E61660-004	Special Screw	4		
34	E26214-037	Rear Panel	1		C, J
34	E26214-038	Rear Panel	1		U
34	E26214-019	Rear Panel	1		A, LBS
35	E26214-020	Rear Panel	1		G
35	E26214-021	Rear Panel	1		LE, LEF
35	E306019-062	Rating Label	1		U
35	E306019-063	Rating Label	1		A
35	E69589-008	Spacer	1		J
36	E69291-001	Fuse Cover	1		LE, LEF, U
37	QRS0085-018	Volume Selector	1		U
38	E302764-001	Volume Selector Cover	1		U
39	E70078-001	GND Terminal	1		
40	EMC0233-001	AC Outlet	1		A
41	EMC0236-001	AC Socket	1		G, LE, LEF
41	EMC0237-001BS	AC Outlet	1		LBS
41	SBST3006M	Screw	2		G
42	SBST3006M	Screw	1		Except G
42	SDSG3008M	Screw	2		C, J, U
43	QMF51E2-2R1	Fuse	1		U
44	QMF51E2-1R25	Fuse	1		LE, LEF
45	QMG0301-003	Fuse Holder	1		LE, LEF, U
45	EXO085010R10S	Spacer	2		
45	E67199-001	Caution Label	1		J
46	E65507-001	Caution Label	1		C
46	QMP1480-200	Power Cord	1		C, J
46	QMP7520-200	Power Cord	1		U
46	QMP2560-244	Power Cord	1		A
46	QMP39A0-200	Power Cord	1		G
47	QMP3900-200	Power Cord	1		LE, LEF
47	QMP9017-008BS	Power Cord	1		LBS
47	QHS3876-0162	Cord Stopper	1		Except LBS
47	QHS3876-162BS	Cord Stopper	1		LBS
47	E60965-001BS	Warning Label	1		LBS
47	QZL1001-001	UL Label	1		J
47	E45858-002	CSA Label	1		C
47	E74792-048	FTZ Label	1		G
47	E70028-001	Approval Label	1		LE
47	E61029-005	Number Label	1		C, G, J, LBS, U
47	E75139-001	Name Sheet	1		J, LBS, LE, LEF
47	E72430-002	Label	1		

△ : Safety Parts

The Marks for Designated Areas

A	Australia	C	Canada
G	West Germany	J	the U.S.A.
LBS	the U.K. (with LW)	LE	Europe (with LW)
LEF	Europe	U	Other Countries
No mark indicates all areas.			

Note(1)

PC Board Ass'y	Designated Areas
ENH-145[G]	the U. S. A.
ENH-145[H]	Canada
ENH-145[I]	Other Countries
ENH-145[J]	Australia , Europe
ENH-145[K]BS	the U. K. (with LW)
ENH-145[L]	West Germany

Transistors

ITEM	PART NUMBER	DESCRIPTION	AREA
		MAKER	
Q701	2SC2389(S,E)	SILICON ROHM	
Q702	2SC2389(S,E)	SILICON ROHM	
Q703	2SA1038(R,S)	SILICON ROHM	
Q704	2SA1038(R,S)	SILICON ROHM	
Q751	2SD636(Q,R)	SILICON MATSUSHITA	
Q752	2SD636(Q,R)	SILICON MATSUSHITA	
Q757	2SC945A(P,Q)	SILICON NEC	
Q758	2SC945A(P,Q)	SILICON NEC	
Q759	2SA733A(P,Q)	SILICON NEC	
Q760	2SA733A(P,Q)	SILICON NEC	
Q761	2SC2389(S)	SILICON ROHM	
Q762	2SC2389(S)	SILICON ROHM	
Q763	2SA1038(S)	SILICON ROHM	
Q764	2SA1038(S)	SILICON ROHM	
Q765	2SC2235(O,Y)	SILICON TOSHIBA	
Q766	2SC2235(O,Y)	SILICON TOSHIBA	
Q767	2SA965(O,Y)	SILICON TOSHIBA	
Q768	2SA965(O,Y)	SILICON TOSHIBA	
Q769	2SC3854LC(O,Y)	SILICON SANKEN	
Q770	2SC3854LC(O,Y)	SILICON SANKEN	
Q771	2SA1490LC(O,Y)	SILICON SANKEN	
Q772	2SA1490LC(O,Y)	SILICON SANKEN	
Q801	2SB1187(E,F)	SILICON ROHM	
Q802	2SD2061(E,F)	SILICON ROHM	
Q803	2SD2061(E,F)	SILICON ROHM	
Q804	2SD2061(E,F)	SILICON ROHM	
Q805	2SA965(O,Y)	SILICON TOSHIBA	
Q851	2SD1265A(O)	SILICON MATSUSHITA	I
Q852	2SC2235(O,Y)	SILICON TOSHIBA	
Q853	DTC143TS	SILICON ROHM	
Q901	2SC1775AV(E,F)	SILICON HITACHI	
Q902	2SC1775AV(E,F)	SILICON HITACHI	
Q903	2SA872AV(E,F)	SILICON HITACHI	

Δ : SAFETY PARTS

I.C.s

ITEM	PART NUMBER	DESCRIPTION	AREA
		MAKER	
IC701	NJM4560DD	I.C. DAINICHI	
IC901	TA7317P	I.C. TOSHIBA	

Δ : SAFETY PARTS

Diodes

ITEM	PART NUMBER	DESCRIPTION	AREA
		MAKER	
D701	1SS133	SILICON ROHM	
D702	1SS133	SILICON ROHM	
D709	MTZ3.0JB	ZENER ROHM	
D751	1SS133	SILICON ROHM	
D752	1SS133	SILICON ROHM	

Diodes

ITEM	PART NUMBER	DESCRIPTION	AREA
		MAKER	
D753	1SS133	SILICON ROHM	
D754	1SS133	SILICON ROHM	
D801	30DF2SFC	SILICON NIHONINTER	L
D801	30D2FC	SILICON NIHONINTER	G
D801	30D2FC	SILICON NIHONINTER	H
D801	30D2FC	SILICON NIHONINTER	I
D801	30D2FC	SILICON NIHONINTER	J
D801	30D2FC	SILICON NIHONINTER	KBS
D802	30DF2SFC	SILICON NIHONINTER	L
D802	30D2FC	SILICON NIHONINTER	G
D802	30D2FC	SILICON NIHONINTER	H
D802	30D2FC	SILICON NIHONINTER	I
D802	30D2FC	SILICON NIHONINTER	J
D802	30D2FC	SILICON NIHONINTER	KBS
D803	30DF2SFC	SILICON NIHONINTER	L
D803	30D2FC	SILICON NIHONINTER	G
D803	30D2FC	SILICON NIHONINTER	H
D803	30D2FC	SILICON NIHONINTER	I
D803	30D2FC	SILICON NIHONINTER	J
D803	30D2FC	SILICON NIHONINTER	KBS
D804	30DF2SFC	SILICON NIHONINTER	L
D804	30D2FC	SILICON NIHONINTER	G
D804	30D2FC	SILICON NIHONINTER	H
D804	30D2FC	SILICON NIHONINTER	I
D804	30D2FC	SILICON NIHONINTER	J
D804	30D2FC	SILICON NIHONINTER	KBS
D805	1SS133	SILICON ROHM	
D806	MTZ16JC	ZENER ROHM	
D807	1SS133	SILICON ROHM	
D808	MTZ15JC	ZENER ROHM	
D809	1SS133	SILICON ROHM	
D810	MTZ16JC	ZENER ROHM	
D811	1SS133	SILICON ROHM	
D812	MTZ7.5JC	ZENER ROHM	
D813	MTZ10JC	ZENER ROHM	
D814	MTZ8.2JC	ZENER ROHM	
D815	MTZ8.2JC	ZENER ROHM	
D816	MTZ16JC	ZENER ROHM	
D817	MTZ16JC	ZENER ROHM	
D820	1SS133	SILICON ROHM	
D821	MTZ12JC	ZENER ROHM	I
D821	MTZ12JC	ZENER ROHM	J
D821	MTZ12JC	ZENER ROHM	KBS
D821	MTZ12JC	ZENER ROHM	L
D822	MTZ10JC	ZENER ROHM	I
D822	MTZ10JC	ZENER ROHM	J
D822	MTZ10JC	ZENER ROHM	KBS
D822	MTZ10JC	ZENER ROHM	L
D823	MTZ12JC	ZENER ROHM	I
D823	MTZ12JC	ZENER ROHM	J
D823	MTZ12JC	ZENER ROHM	KBS
D823	MTZ12JC	ZENER ROHM	L
D824	MTZ12JC	ZENER ROHM	I
D824	MTZ12JC	ZENER ROHM	J
D824	MTZ12JC	ZENER ROHM	KBS
D824	MTZ12JC	ZENER ROHM	L
Δ D851	ERA15-02L19	SILICON KYOUDOU	
Δ D852	ERA15-02L19	SILICON KYOUDOU	
Δ D853	ERA15-02L19	SILICON KYOUDOU	
Δ D854	ERA15-02L19	SILICON KYOUDOU	
D855	MTZ12JC	ZENER ROHM	I
D857	MTZ6.2JC	ZENER ROHM	
D858	1SS133	SILICON ROHM	
D901	1SS133	SILICON ROHM	
D902	1SS133	SILICON ROHM	
D903	1SS133	SILICON ROHM	
D904	1SS133	SILICON ROHM	

Δ : SAFETY PARTS

Capacitors

ITEM	PART NUMBER	DESCRIPTION	AREA
		MAKER	
C001	QCZ9019-472	4700PF CERAMIC	G
C001	QCZ9019-472	4700PF CERAMIC	H
C001	QCZ9019-472	4700PF CERAMIC	I
C001	QCZ9019-472	4700PF CERAMIC	J
C001	QCZ9019-472	4700PF CERAMIC	L
C001	QCZ9019-472BS	4700PF CERAMIC	KBS
C701	QETB1HM-106	10MF 50V ELECTRO	
C702	QETB1HM-106	10MF 50V ELECTRO	
C703	QETB1AM-107	100MF 10V ELECTRO	
C704	QETB1AM-107	100MF 10V ELECTRO	

Capacitors

ITEM	PART NUMBER	DESCRIPTION	AREA
C705	QCS21HJ-101	100PF 50V CERAMIC	
C706	QCS21HJ-101	100PF 50V CERAMIC	
C707	QCS21HJ-270	27PF 50V CERAMIC	
C708	QCS21HJ-270	27PF 50V CERAMIC	
C709	QCS21HJ-120	12PF 50V CERAMIC	
C710	QCS21HJ-120	12PF 50V CERAMIC	
C711	QFN81HK-103	0.01MF 50V MYLAR	
C712	QFN81HK-103	0.01MF 50V MYLAR	
C717	QETB1HM-226	22MF 50V ELECTRO	
C718	QETB1HM-226	22MF 50V ELECTRO	
C721	QETB1EM-476	47MF 25V ELECTRO	
C722	QETB1EM-476	47MF 25V ELECTRO	
C729	QCS21HJ-220	22PF 50V CERAMIC	
C730	QCS21HJ-220	22PF 50V CERAMIC	
C751	QCS32HJ-470	47PF 500V CERAMIC	
C752	QCS32HJ-470	47PF 500V CERAMIC	
C753	QCS32HJ-470	47PF 500V CERAMIC	
C754	QCS32HJ-470	47PF 500V CERAMIC	
C755	QFN81HK-223	0.022MF 50V MYLAR	G
C755	QFN81HK-473	0.047MF 50V MYLAR	H
C755	QFN81HK-473	0.047MF 50V MYLAR	I
C755	QFN81HK-473	0.047MF 50V MYLAR	J
C755	QFN81HK-473	0.047MF 50V MYLAR	KBS
C756	QFN81HK-223	0.022MF 50V MYLAR	L
C756	QFN81HK-473	0.047MF 50V MYLAR	H
C756	QFN81HK-473	0.047MF 50V MYLAR	I
C756	QFN81HK-473	0.047MF 50V MYLAR	J
C756	QFN81HK-473	0.047MF 50V MYLAR	KBS
C756	QFN81HK-473	0.047MF 50V MYLAR	L
C757	QFN81HK-473	0.047MF 50V MYLAR	H
C757	QFN81HK-473	0.047MF 50V MYLAR	I
C757	QFN81HK-473	0.047MF 50V MYLAR	J
C757	QFN81HK-473	0.047MF 50V MYLAR	KBS
C757	QFN81HK-473	0.047MF 50V MYLAR	L
C758	QFN81HK-473	0.047MF 50V MYLAR	H
C758	QFN81HK-473	0.047MF 50V MYLAR	I
C758	QFN81HK-473	0.047MF 50V MYLAR	J
C758	QFN81HK-473	0.047MF 50V MYLAR	KBS
C758	QFN81HK-473	0.047MF 50V MYLAR	L
C761	QCF21HP-473	0.047MF 50V CERAMIC	
C762	QCF21HP-473	0.047MF 50V CERAMIC	
C763	QCF21HP-473	0.047MF 50V CERAMIC	
C764	QCF21HP-473	0.047MF 50V CERAMIC	
C801	EEW5608-878E	8700MF 56V ELECTRO	I
C801	EEW5608-878E	8700MF 56V ELECTRO	J
C801	EEW5608-878E	8700MF 56V ELECTRO	KBS
C801	EEW5608-878E	8700MF 56V ELECTRO	L
C801	EEW6310-878T	8700MF 63V ELECTRO	G
C801	EEW6310-878T	8700MF 63V ELECTRO	H
C802	EEW5608-878E	8700MF 56V ELECTRO	I
C802	EEW5608-878E	8700MF 56V ELECTRO	J
C802	EEW5608-878E	8700MF 56V ELECTRO	KBS
C802	EEW5608-878E	8700MF 56V ELECTRO	L
C802	EEW6310-878T	8700MF 63V ELECTRO	G
C802	EEW6310-878T	8700MF 63V ELECTRO	H
C805	QCE22HP-103	0.01MF 500V CERAMIC	G
C805	QCE22HP-103	0.01MF 500V CERAMIC	H
C805	QFN82CK-104	0.1MF 160V MYLAR	I
C805	QFN82CK-104	0.1MF 160V MYLAR	J
C805	QFN82CK-104	0.1MF 160V MYLAR	KBS
C805	QFN82CK-104	0.1MF 160V MYLAR	L
C806	QCE22HP-103	0.01MF 500V CERAMIC	
C807	QCE22HP-103	0.01MF 500V CERAMIC	
C811	QCF21HP-472	4700PF 50V CERAMIC	
C812	QETB1EM-107	100MF 25V ELECTRO	
C813	QCF21HP-472	4700PF 50V CERAMIC	
C814	QETB1EM-107	100MF 25V ELECTRO	G
C814	QETB1VM-107	100MF 35V ELECTRO	H
C814	QETB1VM-107	100MF 35V ELECTRO	I
C814	QETB1VM-107	100MF 35V ELECTRO	J
C814	QETB1VM-107	100MF 35V ELECTRO	KBS
C816	QCF21HP-472	4700PF 50V CERAMIC	
C817	QETB1EM-107	100MF 25V ELECTRO	
C818	QETB1HM-476	47MF 50V ELECTRO	
C819	QETB1HM-107	100MF 50V ELECTRO	
C820	QCF21HP-472	4700PF 50V CERAMIC	
C821	QETB1EM-107	100MF 25V ELECTRO	
C822	QCF21HP-472	4700PF 50V CERAMIC	
C823	QETB1EM-107	100MF 25V ELECTRO	
C831	QFN81HK-223	0.022MF 50V MYLAR	G
C831	QFN81HK-223	0.022MF 50V MYLAR	L
C832	QFN81HK-223	0.022MF 50V MYLAR	G
C832	QFN81HK-223	0.022MF 50V MYLAR	L
C851	QFN32AK-223	0.022MF 100V MYLAR	
C852	QETB1EM-477	470MF 25V ELECTRO	G
C852	QETB1EM-477	470MF 25V ELECTRO	H
C852	QETB1EM-477	470MF 25V ELECTRO	J
C852	QETB1EM-477	470MF 25V ELECTRO	KBS

Capacitors

ITEM	PART NUMBER	DESCRIPTION	AREA
C852	QETB1EM-477	470MF 25V ELECTRO	L
C852	QETB1JM-227	220MF 63V ELECTRO	I
C854	QCF21HP-472	4700PF 50V CERAMIC	I
C855	QETB1CM-476	47MF 16V ELECTRO	
C856	QCF21HP-472	4700PF 50V CERAMIC	
C901	QCF21HP-223	0.022MF 50V CERAMIC	
C902	QCF21HP-223	0.022MF 50V CERAMIC	
C903	QETB1HM-226	22MF 50V ELECTRO	
C904	QFN81HK-223	0.022MF 50V MYLAR	
C905	QCY21HK-102	1000PF 50V CERAMIC	
C906	QETB1AM-476	47MF 10V ELECTRO	
C909	QETB1CM-226	22MF 16V ELECTRO	
C910	QETB1HM-225	2.2MF 50V ELECTRO	
C944	QCF21HP-223	0.022MF 50V CERAMIC	L
C961	QFN81HK-473	0.047MF 50V MYLAR	L
C962	QFN81HK-473	0.047MF 50V MYLAR	L
C963	QFN81HK-473	0.047MF 50V MYLAR	L
C964	QFN81HK-473	0.047MF 50V MYLAR	L
C965	QCS21HJ-331	330PF 50V CERAMIC	L
C966	QCS21HJ-331	330PF 50V CERAMIC	L
C967	QCS21HJ-331	330PF 50V CERAMIC	L
C968	QCS21HJ-331	330PF 50V CERAMIC	L
C969	QCS21HJ-471	470PF 50V CERAMIC	L
C970	QCS21HJ-471	470PF 50V CERAMIC	L
C971	QCS21HJ-471	470PF 50V CERAMIC	L
C972	QCS21HJ-471	470PF 50V CERAMIC	L
C973	QCS21HJ-101	100PF 50V CERAMIC	L
C974	QCS21HJ-101	100PF 50V CERAMIC	L
C991	QCS21HJ-331	330PF 50V CERAMIC	L

△ : SAFETY PARTS

Resistors

ITEM	PART NUMBER	DESCRIPTION	AREA
△ R001	QRC128K-275EM	2.7M 1/2W COMPOSI	G
△ R001	QRC128K-275EM	2.7M 1/2W COMPOSI	H
R701	QRD167J-222	2.2K 1/6W CARBON	
R702	QRD167J-222	2.2K 1/6W CARBON	
R703	QRD167J-104	100K 1/6W CARBON	
R704	QRD167J-104	100K 1/6W CARBON	
R705	QRD167J-472	4.7K 1/6W CARBON	
R706	QRD167J-472	4.7K 1/6W CARBON	
△ R707	QRD14CJ-820S	82 1/4W UNF. CARBON	
△ R708	QRD14CJ-820S	82 1/4W UNF. CARBON	
△ R709	QRD14CJ-820S	82 1/4W UNF. CARBON	
△ R710	QRD14CJ-820S	82 1/4W UNF. CARBON	
R711	QRD167J-470	47 1/6W CARBON	
R712	QRD167J-470	47 1/6W CARBON	
R713	QRD167J-153	15K 1/6W CARBON	
R714	QRD167J-153	15K 1/6W CARBON	
R715	QRD167J-153	15K 1/6W CARBON	
R716	QRD167J-153	15K 1/6W CARBON	
R717	QRD167J-332	3.3K 1/6W CARBON	
R718	QRD167J-332	3.3K 1/6W CARBON	
R719	QRD167J-104	100K 1/6W CARBON	G
R719	QRD167J-104	100K 1/6W CARBON	H
△ R719	QRV144F-1003	100K 1/4W M. FILM	I
△ R719	QRV144F-1003	100K 1/4W M. FILM	J
△ R719	QRV144F-1003	100K 1/4W M. FILM	KBS
△ R719	QRV144F-1003	100K 1/4W M. FILM	L
△ R720	QRD167J-104	100K 1/6W CARBON	G
△ R720	QRD167J-104	100K 1/6W CARBON	H
△ R720	QRV144F-1003	100K 1/4W M. FILM	I
△ R720	QRV144F-1003	100K 1/4W M. FILM	J
△ R720	QRV144F-1003	100K 1/4W M. FILM	KBS
△ R720	QRV144F-1003	100K 1/4W M. FILM	L
△ R723	QRD167J-132	1.3K 1/6W CARBON	G
△ R723	QRD167J-132	1.3K 1/6W CARBON	H
△ R723	QRV144F-1301	1.3K 1/4W M. FILM	I
△ R723	QRV144F-1301	1.3K 1/4W M. FILM	J
△ R723	QRV144F-1301	1.3K 1/4W M. FILM	KBS
△ R723	QRV144F-1301	1.3K 1/4W M. FILM	L
R724	QRD167J-132	1.3K 1/6W CARBON	G
R724	QRD167J-132	1.3K 1/6W CARBON	H
△ R724	QRV144F-1301	1.3K 1/4W M. FILM	I
△ R724	QRV144F-1301	1.3K 1/4W M. FILM	J
△ R724	QRV144F-1301	1.3K 1/4W M. FILM	KBS
△ R724	QRV144F-1301	1.3K 1/4W M. FILM	L
R725	QRD167J-202	2K 1/6W CARBON	
R726	QRD167J-223	22K 1/6W CARBON	I
R726	QRD167J-223	22K 1/6W CARBON	J
R726	QRD167J-223	22K 1/6W CARBON	KBS
R726	QRD167J-223	22K 1/6W CARBON	L
R726	QRD167J-273	27K 1/6W CARBON	G

Resistors

ITEM	PART NUMBER	DESCRIPTION	AREA
R726	QRD167J-273	27K 1/6W CARBON	H
R727	QRD14CJ-102S	1K 1/4W UNF. CARBON	
R728	QRD167J-102	1K 1/6W CARBON	
R751	QVPE601-501	500 0.15W VARIABLE	
R752	QVPE601-501	500 0.15W VARIABLE	
R753	QRD167J-152	1.5K 1/6W CARBON	
R754	QRD167J-152	1.5K 1/6W CARBON	
R755	QRD167J-391	390 1/6W CARBON	
R756	QRD167J-391	390 1/6W CARBON	
R757	SDT250	THERMISTOR	I
R757	SDT250	THERMISTOR	J
R757	SDT250	THERMISTOR	KBS
R757	SDT250	THERMISTOR	L
R758	SDT250	THERMISTOR	I
R758	SDT250	THERMISTOR	J
R758	SDT250	THERMISTOR	KBS
R758	SDT250	THERMISTOR	L
R759	QRD14CJ-100S	10 1/4W UNF. CARBON	
R760	QRD14CJ-100S	10 1/4W UNF. CARBON	
R761	QRD14CJ-100S	10 1/4W UNF. CARBON	
R762	QRD14CJ-100S	10 1/4W UNF. CARBON	
R763	QRD14CJ-100S	10 1/4W UNF. CARBON	
R764	QRD14CJ-100S	10 1/4W UNF. CARBON	
R765	QRD14CJ-100S	10 1/4W UNF. CARBON	
R766	QRD14CJ-100S	10 1/4W UNF. CARBON	
R767	QRD167J-820	82 1/6W CARBON	
R768	QRD167J-820	82 1/6W CARBON	
R769	QRD167J-820	82 1/6W CARBON	
R770	QRD167J-820	82 1/6W CARBON	
R771	QRD167J-151	150 1/6W CARBON	
R772	QRD167J-151	150 1/6W CARBON	
R773	QRD167J-151	150 1/6W CARBON	
R774	QRD167J-151	150 1/6W CARBON	
R783	QRD14CJ-272S	2.7K 1/4W UNF. CARBON	
R784	QRD14CJ-272S	2.7K 1/4W UNF. CARBON	
R785	QRD14CJ-271S	270 1/4W UNF. CARBON	
R786	QRD14CJ-271S	270 1/4W UNF. CARBON	
R787	ERF032K-R22	0.22 3W CEMENT	
R788	ERF032K-R22	0.22 3W CEMENT	
R789	QRD14CJ-100S	10 1/4W UNF. CARBON	G
R789	QRD14CJ-100S	10 1/4W UNF. CARBON	H
R789	QRZ0077-100	10 1/4W FUSIBLE	I
R789	QRZ0077-100	10 1/4W FUSIBLE	J
R789	QRZ0077-100	10 1/4W FUSIBLE	KBS
R789	QRZ0077-100	10 1/4W FUSIBLE	L
R790	QRD14CJ-100S	10 1/4W UNF. CARBON	G
R790	QRD14CJ-100S	10 1/4W UNF. CARBON	H
R790	QRZ0077-100	10 1/4W FUSIBLE	I
R790	QRZ0077-100	10 1/4W FUSIBLE	J
R790	QRZ0077-100	10 1/4W FUSIBLE	KBS
R790	QRZ0077-100	10 1/4W FUSIBLE	L
R791	QRD14CJ-100S	10 1/4W UNF. CARBON	G
R791	QRD14CJ-100S	10 1/4W UNF. CARBON	H
R791	QRZ0077-100	10 1/4W FUSIBLE	I
R791	QRZ0077-100	10 1/4W FUSIBLE	J
R791	QRZ0077-100	10 1/4W FUSIBLE	KBS
R791	QRZ0077-100	10 1/4W FUSIBLE	L
R792	QRD14CJ-100S	10 1/4W UNF. CARBON	G
R792	QRD14CJ-100S	10 1/4W UNF. CARBON	H
R792	QRZ0077-100	10 1/4W FUSIBLE	I
R792	QRZ0077-100	10 1/4W FUSIBLE	J
R792	QRZ0077-100	10 1/4W FUSIBLE	KBS
R792	QRZ0077-100	10 1/4W FUSIBLE	L
R793	QRD125J-330	33 1/2W UNF. CARBON	
R794	QRD125J-330	33 1/2W UNF. CARBON	
R795	QRG022J-100A	10 2W O.M. FILM	
R796	QRG022J-100A	10 2W O.M. FILM	
R797	QRD14CJ-330S	33 1/4W UNF. CARBON	G
R797	QRD14CJ-330S	33 1/4W UNF. CARBON	H
R797	QRZ0077-330	33 1/4W FUSIBLE	I
R797	QRZ0077-330	33 1/4W FUSIBLE	J
R797	QRZ0077-330	33 1/4W FUSIBLE	KBS
R797	QRZ0077-330	33 1/4W FUSIBLE	L
R798	QRD14CJ-330S	33 1/4W UNF. CARBON	G
R798	QRD14CJ-330S	33 1/4W UNF. CARBON	H
R798	QRZ0077-330	33 1/4W FUSIBLE	I
R798	QRZ0077-330	33 1/4W FUSIBLE	J
R798	QRZ0077-330	33 1/4W FUSIBLE	KBS
R798	QRZ0077-330	33 1/4W FUSIBLE	L
R801	QRG022J-561A	560 2W O.M. FILM	
R802	QRG022J-561A	560 2W O.M. FILM	
R803	QRD14CJ-220S	22 1/4W UNF. CARBON	G
R803	QRD14CJ-220S	22 1/4W UNF. CARBON	H
R803	QRZ0077-220	22 1/4W FUSIBLE	I
R803	QRZ0077-220	22 1/4W FUSIBLE	J
R803	QRZ0077-220	22 1/4W FUSIBLE	KBS
R803	QRZ0077-220	22 1/4W FUSIBLE	L
R804	QRD125J-562	5.6K 1/2W UNF. CARBON	
R805	QRD125J-272	2.7K 1/2W UNF. CARBON	
R806	QRD14CJ-121S	120 1/4W UNF. CARBON	

Resistors

ITEM	PART NUMBER	DESCRIPTION	AREA
R807	QRG022J-561A	560 2W O.M. FILM	
R808	QRD167J-220	22 1/6W CARBON	
R809	QRD167J-220	22 1/6W CARBON	
R810	QRG022J-561A	560 2W O.M. FILM	
R811	QRD125J-562	5.6K 1/2W UNF. CARBON	
R812	QRG022J-391A	390 2W O.M. FILM	H
R812	QRG022J-391A	390 2W O.M. FILM	I
R812	QRG022J-391A	390 2W O.M. FILM	J
R812	QRG022J-391A	390 2W O.M. FILM	KBS
R812	QRG022J-391A	390 2W O.M. FILM	L
R812	QRG022J-561A	560 2W O.M. FILM	G
R813	QRG022J-391A	390 2W O.M. FILM	H
R813	QRG022J-391A	390 2W O.M. FILM	I
R813	QRG022J-391A	390 2W O.M. FILM	J
R813	QRG022J-391A	390 2W O.M. FILM	KBS
R813	QRG022J-391A	390 2W O.M. FILM	L
R813	QRG022J-561A	560 2W O.M. FILM	G
R814	QRG022J-391A	390 2W O.M. FILM	H
R814	QRG022J-391A	390 2W O.M. FILM	I
R814	QRG022J-391A	390 2W O.M. FILM	J
R814	QRG022J-391A	390 2W O.M. FILM	KBS
R814	QRG022J-391A	390 2W O.M. FILM	L
R814	QRG022J-561A	560 2W O.M. FILM	G
R816	QRD125J-562	5.6K 1/2W UNF. CARBON	
R817	QRG022J-471A	470 2W O.M. FILM	G
R817	QRG026J-102AF	1K 2W O.M. FILM	H
R817	QRG026J-102AF	1K 2W O.M. FILM	I
R817	QRG026J-102AF	1K 2W O.M. FILM	J
R817	QRG026J-102AF	1K 2W O.M. FILM	KBS
R817	QRG026J-102AF	1K 2W O.M. FILM	L
R818	QRG022J-471A	470 2W O.M. FILM	G
R818	QRG026J-102AF	1K 2W O.M. FILM	H
R818	QRG026J-102AF	1K 2W O.M. FILM	I
R818	QRG026J-102AF	1K 2W O.M. FILM	J
R818	QRG026J-102AF	1K 2W O.M. FILM	KBS
R818	QRG026J-102AF	1K 2W O.M. FILM	L
R819	QRG026J-102AF	1K 2W O.M. FILM	H
R819	QRG026J-102AF	1K 2W O.M. FILM	I
R819	QRG026J-102AF	1K 2W O.M. FILM	J
R819	QRG026J-102AF	1K 2W O.M. FILM	KBS
R819	QRG026J-102AF	1K 2W O.M. FILM	L
R820	QRD125J-822	8.2K 1/2W UNF. CARBON	
R821	QRX022J-R22A	0.22 2W M. FILM	G
R822	QRX022J-R22A	0.22 2W M. FILM	G
R841	QRD167J-104	100K 1/6W CARBON	
R842	QRD167J-104	100K 1/6W CARBON	
R843	QRD125J-2R2	2.2 1/2W UNF. CARBON	
R844	QRD125J-2R2	2.2 1/2W UNF. CARBON	
R861	QRD14CJ-100S	10 1/4W UNF. CARBON	G
R861	QRD14CJ-100S	10 1/4W UNF. CARBON	H
R861	QRZ0076-3R3	3.3 1/4W FUSIBLE	I
R861	QRZ0077-220	22 1/4W FUSIBLE	L
R861	QRZ0077-270	27 1/4W FUSIBLE	KBS
R861	QRZ0077-330	33 1/4W FUSIBLE	J
R863	QRD167J-821	820 1/6W CARBON	
R864	QRG012J-272A	2.7K 1W O.M. FILM	I
R865	QRD167J-120	12 1/6W CARBON	KBS
R901	QRD167J-681	680 1/6W CARBON	
R902	QRD167J-681	680 1/6W CARBON	
R903	QRD167J-562	5.6K 1/6W CARBON	
R904	QRD167J-562	5.6K 1/6W CARBON	
R905	QRD167J-123	12K 1/6W CARBON	
R906	QRD167J-123	12K 1/6W CARBON	
R907	QRD167J-152	1.5K 1/6W CARBON	
R908	QRD167J-152	1.5K 1/6W CARBON	
R909	QRD167J-103	10K 1/6W CARBON	
R911	QRD167J-332	3.3K 1/6W CARBON	
R912	QRD167J-473	47K 1/6W CARBON	
R913	QRD167J-104	100K 1/6W CARBON	
R914	QRD167J-823	82K 1/6W CARBON	
R915	QRD167J-473	47K 1/6W CARBON	
R916	QRD167J-563	56K 1/6W CARBON	
R917	QRD167J-683	68K 1/6W CARBON	
R918	QRD167J-392	3.9K 1/6W CARBON	
R921	QRD167J-224	220K 1/6W CARBON	
R922	QRD167J-182	1.8K 1/6W CARBON	
R924	QRG022J-122A	1.2K 2W O.M. FILM	I
R924	QRG022J-122A	1.2K 2W O.M. FILM	J
R924	QRG022J-122A	1.2K 2W O.M. FILM	KBS
R924	QRG022J-122A	1.2K 2W O.M. FILM	L
R924	QRG022J-152A	1.5K 2W O.M. FILM	G
R924	QRG022J-152A	1.5K 2W O.M. FILM	H
R925	QRD167J-121	120 1/6W CARBON	
R926	QRD167J-121	120 1/6W CARBON	G
R926	QRD167J-121	120 1/6W CARBON	H
R931	QRD14CJ-330S	33 1/4W UNF. CARBON	
R935	QRD167J-562	5.6K 1/6W CARBON	
R936	QRD167J-822	8.2K 1/6W CARBON	
R937	QRD167J-103	10K 1/6W CARBON	
R941	QRG022J-471A	470 2W O.M. FILM	

Resistors

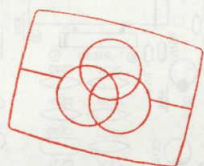
ITEM	PART NUMBER	DESCRIPTION	AREA
△ R942	QRG022J-471A	470 2W O.M. FILM	
△ R961	QRZ0077-100	10 1/4W FUSIBLE	L
△ R962	QRZ0077-100	10 1/4W FUSIBLE	L
△ R963	QRZ0077-100	10 1/4W FUSIBLE	L
△ R964	QRZ0077-100	10 1/4W FUSIBLE	L

△ : SAFETY PARTS

Others

ITEM	PART NUMBER	DESCRIPTION	AREA
△	EMB90TV-801A	SPEAKER TERMINAL	
△	EMG7331-001	FUSE CLIP	
△	ETP1000-41EA	POWER TRANSFORMER	J
△	ETP1000-41EA	POWER TRANSFORMER	L
△	ETP1000-41EABS	POWER TRANSFORMER	KBS
△	ETP1000-41JA	POWER TRANSFORMER	G
△	ETP1000-41JA	POWER TRANSFORMER	H
△	ETP1000-41ZB	POWER TRANSFORMER	I
△	E12192-003	CIRCUIT BOARD	G
△	E12192-003	CIRCUIT BOARD	H
△	E12192-003	CIRCUIT BOARD	I
△	E12192-003	CIRCUIT BOARD	J
△	E12192-003	CIRCUIT BOARD	L
△	E12192-003BS	CIRCUIT BOARD	KBS
△	E305747-001	H.S. BRACKET	
△	E305748-002	H.S. BRACKET	
△	E306674-001	HEAT SINK	
△	E65508-002	TAB	
△	E65654-001	SPACER	H
△	E65654-001	SPACER	I
△	E65654-001	SPACER	J
△	E65654-001	SPACER	KBS
△	E65654-001	SPACER	L
△	E67132-T2R0	FUSE LABEL	J
△	E67132-T2R0	FUSE LABEL	KBS
△	E67132-T2R0	FUSE LABEL	L
△	E67764-102	WRAPPING TERMINAL	
△	E67764-103	WRAPPING TERMINAL	
△	E67764-103	WRAPPING TERMINAL	
△	E67764-202	WRAPPING TERMINAL	
△	E70225-002	EARTH PLATE	L
△	E70859-001	EARTH PLATE	
△	E70859-001	EARTH PLATE	G
△	E70859-001	EARTH PLATE	H
△	E70945-H25	HEAT SINK	G
△	E70945-H25	HEAT SINK	G
△	E70945-H25	HEAT SINK	H
△	E70945-H25	HEAT SINK	H
△	E70945-H40B	HEAT SINK	I
△	E73525-003	SCREW	
△	QMC0437-002	AC OUTLET	I
△	QMC0440-001	AC OUTLET	G
△	QMC0440-001	AC OUTLET	H
△	SBSB3008CC	SCREW	G
△	SBSB3008CC	SCREW	G
△	SBSB3008CC	SCREW	H
△	SBSB3008CC	SCREW	H
△	SBSG3008CC	SCREW	I
△	SBSG3010CC	SCREW	
△	J901 QMS6A40-021	HEADPHONE JACK	
△	K961 ENZ8101-007	INDUCTOR	L
△	K962 ENZ8101-007	INDUCTOR	L
△	L751 EQL0101-1R2	INDUCTOR	
△	L752 EQL0101-1R2	INDUCTOR	
△	P801 VMC0107-003	CONNECTOR	
△	P803 VMC0107-004	CONNECTOR	
△	P805 VMC0107-003	CONNECTOR	
△	P806 VMC0107-003	CONNECTOR	
△	EP801 E70859-001	EARTH PLATE	
△	EP802 E70859-001	EARTH PLATE	L
△	FW301 EWR35B-25LST	FLAT WIRE	
△	FW701 EWR23C-30JN	FLAT WIRE	
△	FW805 EWR33B-20LST	FLAT WIRE	
△	FW806 EWR33B-20LST	FLAT WIRE	
△	FW901 EWR33B-20SST	FLAT WIRE	
△	FW902 EWR34B-25SST	FLAT WIRE	
△	FW903 EWR36B-35SST	FLAT WIRE	
△	RY001 ESK1D12-113	RELAY	J
△	RY001 ESK1D12-115	RELAY	G
△	RY001 ESK1D12-115	RELAY	H
△	RY001 ESK1D12-115	RELAY	I
△	RY001 ESK1D12-115	RELAY	L
△	RY001 ESK1D12-115BS	RELAY	KBS
△	RY901 ESK5D24-218	RELAY	
△	SW901 QST4231-E01	PUSH SWITCH	
△	SW902 QST4231-E01	PUSH SWITCH	

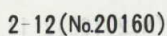
△ : SAFETY PARTS

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Note : ENB-100 ☐ Varies according to the areas employed. See note (1) when placing an order.



Note(1)

PC Board Ass'y	Designated Areas
ENB-100 A	the U. S. A. , Canada
ENB-100 B	Other Countries
ENB-100 C	Australia
ENB-100 D	Europe the U. K. (with LW)
ENB-100 E	West Germany

Transistors

△	ITEM	PART NUMBER	DESCRIPTION	AREA
			MAKER	
	Q331	DTC144ES	SILICON	ROHM
	Q332	2SD655(D,E)	SILICON	HITACHI
	Q451	2SC458(C,D)	SILICON	HITACHI
	Q452	2SC458(C,D)	SILICON	HITACHI
	Q461	2SC458(C,D)	SILICON	HITACHI
	Q462	2SC458(C,D)	SILICON	HITACHI
	Q491	DTC114YS	SILICON	ROHM

△ : SAFETY PARTS

I.C.s

△	ITEM	PART NUMBER	DESCRIPTION	AREA
			MAKER	
	IC301	VC4580DD	I.C.	DAINICHI
	IC321	TC9164N	I.C.	TOSHIBA
	IC331	VC4580L	I.C.	DAINICHI
	IC332	VC4580L	I.C.	DAINICHI
	IC361	TC9177P	I.C.	TOSHIBA
	IC362	NJM4560DD	I.C.	DAINICHI
	IC401	MN178122JNE	I.C.	MATSUSHITA
	IC402	GP1U501X	I.C.	SHARP
	IC421	LC6514B-4131	I.C.	SANYO
	IC491	MN1281(P,Q)	I.C.	MATSUSHITA
	IC501	LA3607S	I.C.	SANYO
	IC502	LA3607S	I.C.	SANYO
	IC503	VC4580LD	I.C.	DAINICHI
	IC504	LC7522	I.C.	SANYO

△ : SAFETY PARTS

Diodes

△	ITEM	PART NUMBER	DESCRIPTION	AREA
			MAKER	
	D402	1SS133	SILICON	ROHM
	D409	1SS133	SILICON	ROHM
	D411	SLH-34VC50F	L.E.D.	ROHM
	D421	1SS133	SILICON	ROHM
	D422	1SS133	SILICON	ROHM
	D423	1SS133	SILICON	ROHM
	D424	1SS133	SILICON	ROHM
	D425	1SS133	SILICON	ROHM
	D426	1SS133	SILICON	ROHM
	D427	1SS133	SILICON	ROHM
	D428	1SS133	SILICON	ROHM
	D432	1SS133	SILICON	ROHM
	D433	1SS133	SILICON	ROHM
	D435	1SS133	SILICON	ROHM
	D436	1SS133	SILICON	ROHM
	D436	1SS133	SILICON	ROHM
	D436	1SS133	SILICON	ROHM
	D437	1SS133	SILICON	ROHM
	D438	1SS133	SILICON	ROHM
	D441	MTZ3.3JB	ZENER	ROHM

Diodes

△	ITEM	PART NUMBER	DESCRIPTION	AREA
			MAKER	
	D442	MTZ3.3JB	ZENER	ROHM
	D443	MTZ3.3JB	ZENER	ROHM
	D444	MTZ3.3JB	ZENER	ROHM
	D445	MTZ3.3JB	ZENER	ROHM
	D446	MTZ3.3JB	ZENER	ROHM
	D447	MTZ3.3JB	ZENER	ROHM
	D448	MTZ3.3JB	ZENER	ROHM
	D449	MTZ3.3JB	ZENER	ROHM
	D450	MTZ3.3JB	ZENER	ROHM
	D451	MTZ3.3JB	ZENER	ROHM
	D452	MTZ3.3JB	ZENER	ROHM
	D453	MTZ3.3JB	ZENER	ROHM
	D454	MTZ3.3JB	ZENER	ROHM
	D455	MTZ3.3JB	ZENER	ROHM
	D461	1SS133	SILICON	ROHM
	D470	1SS133	SILICON	ROHM
	D471	1SS133	SILICON	ROHM
	D472	1SS133	SILICON	ROHM
	D473	1SS133	SILICON	ROHM
	D475	1SS133	SILICON	ROHM
	D491	1SS133	SILICON	ROHM
	D492	1SS133	SILICON	ROHM
	D493	1SS133	SILICON	ROHM
	D494	1SS133	SILICON	ROHM
	D501	MTZ6.8JC	ZENER	ROHM
	D502	MTZ6.8JC	ZENER	ROHM

△ : SAFETY PARTS

Capacitors

△	ITEM	PART NUMBER	DESCRIPTION	AREA
			MAKER	
	C301	QETB1HM-475	4.7MF 50V	ELECTRO
	C302	QETB1HM-475	4.7MF 50V	ELECTRO
	C303	QCS21HJ-101	100PF 50V	CERAMIC
	C303	QCS21HJ-101	100PF 50V	CERAMIC
	C303	QCS21HJ-101	100PF 50V	CERAMIC
	C303	QCS21HJ-101	100PF 50V	CERAMIC
	C303	QCS21HJ-471	470PF 50V	CERAMIC
	C304	QCS21HJ-101	100PF 50V	CERAMIC
	C304	QCS21HJ-101	100PF 50V	CERAMIC
	C304	QCS21HJ-101	100PF 50V	CERAMIC
	C304	QCS21HJ-101	100PF 50V	CERAMIC
	C304	QCS21HJ-471	470PF 50V	CERAMIC
	C305	QCY21HK-182	1800PF 50V	CERAMIC
	C306	QCY21HK-182	1800PF 50V	CERAMIC
	C307	QCY21HK-682	6800PF 50V	CERAMIC
	C308	QCY21HK-682	6800PF 50V	CERAMIC
	C309	QCY21HK-101	100PF 50V	CERAMIC
	C310	QCY21HK-101	100PF 50V	CERAMIC
	C311	QETB1HM-475	4.7MF 50V	ELECTRO
	C312	QETB1HM-475	4.7MF 50V	ELECTRO
	C313	QETB1AM-107	100MF 10V	ELECTRO
	C314	QETB1AM-107	100MF 10V	ELECTRO
	C315	QETB1CM-476	47MF 16V	ELECTRO
	C316	QETB1CM-476	47MF 16V	ELECTRO
	C317	QCF21HP-223	0.022MF 50V	CERAMIC
	C318	QCF21HP-223	0.022MF 50V	CERAMIC
	C319	QFN81HK-104	0.1MF 50V	MYLAR
	C321	QETB1EM-476	47MF 25V	ELECTRO
	C322	QETB1EM-476	47MF 25V	ELECTRO
	C331	QETB1EM-476	47MF 25V	ELECTRO
	C332	QETB1EM-476	47MF 25V	ELECTRO
	C333	QCF21HP-223	0.022MF 50V	CERAMIC
	C334	QCF21HP-223	0.022MF 50V	CERAMIC
	C336	QETB1CM-226	22MF 16V	ELECTRO
	C337	QCS21HJ-101	100PF 50V	CERAMIC
	C338	QCS21HJ-101	100PF 50V	CERAMIC
	C341	QCS21HJ-101	100PF 50V	CERAMIC
	C343	QETB1HM-475	4.7MF 50V	ELECTRO
	C344	QETB1HM-105	1MF 50V	ELECTRO
	C345	QFN81HJ-392	3900PF 50V	MYLAR
	C346	QCS21HJ-100	10PF 50V	CERAMIC
	C347	QETB1EM-226	22MF 25V	ELECTRO
	C363	QCS21HJ-181	180PF 50V	CERAMIC
	C364	QCS21HJ-181	180PF 50V	CERAMIC
	C365	QFN81HK-333	0.033MF 50V	MYLAR
	C366	QFN81HK-333	0.033MF 50V	MYLAR
	C367	QETB1HM-475	4.7MF 50V	ELECTRO
	C368	QETB1HM-475	4.7MF 50V	ELECTRO
	C369	QETB1HM-105	1MF 50V	ELECTRO
	C370	QETB1HM-105	1MF 50V	ELECTRO

Capacitors

ITEM	PART NUMBER	DESCRIPTION	AREA
C371	QETB1EM-106	10MF 25V ELECTRO	
C372	QETB1EM-106	10MF 25V ELECTRO	
C375	QCS21HJ-331	330PF 50V CERAMIC	E
C376	QCS21HJ-331	330PF 50V CERAMIC	E
C377	QCS21HJ-561	560PF 50V CERAMIC	
C381	QCS21HJ-331	330PF 50V CERAMIC	E
C382	QCS21HJ-331	330PF 50V CERAMIC	E
C383	QCS21HJ-331	330PF 50V CERAMIC	E
C384	QCS21HJ-331	330PF 50V CERAMIC	E
C385	QCS21HJ-331	330PF 50V CERAMIC	E
C386	QCS21HJ-331	330PF 50V CERAMIC	E
C387	QCS21HJ-561	560PF 50V CERAMIC	E
C388	QCS21HJ-561	560PF 50V CERAMIC	E
C389	QCS21HJ-221	220PF 50V CERAMIC	E
C390	QCS21HJ-221	220PF 50V CERAMIC	E
C401	EET0602-477T	470MF 6.3V ELECTRO	
C402	QCZ0205-155	1.5MF 25V CERAMIC	
C403	QCHB1EZ-223	0.022MF 25V CERAMIC	
C411	QCGB1HK-102	1000PF 50V CERAMIC	
C412	QCGB1HK-102	1000PF 50V CERAMIC	
C413	QCGB1HK-102	1000PF 50V CERAMIC	
C414	QCGB1HK-102	1000PF 50V CERAMIC	
C421	EEZ0601-108	1000PF 6.3V ELECTRO	
C422	QCZ0205-155	1.5MF 25V CERAMIC	
C423	QCB81HK-101	100PF 50V CERAMIC	
C424	QCB81HK-101	100PF 50V CERAMIC	
C425	QETB1HM-475	4.7MF 50V ELECTRO	
C491	EEZ0502-479	47000MF 5.5V ELECTRO	
C492	QETB1HM-225	2.2MF 50V ELECTRO	
C493	QCF21HP-223	0.022MF 50V CERAMIC	
C501	QETB1HM-475	4.7MF 50V ELECTRO	
C502	QETB1HM-475	4.7MF 50V ELECTRO	
C507	QCS21HJ-101	100PF 50V CERAMIC	
C508	QCS21HJ-101	100PF 50V CERAMIC	
C509	QETB1CM-226	22MF 16V ELECTRO	
C510	QETB1CM-226	22MF 16V ELECTRO	
C511	QETB1HM-475	4.7MF 50V ELECTRO	
C512	QETB1HM-475	4.7MF 50V ELECTRO	
C513	QETB1HM-475	4.7MF 50V ELECTRO	
C514	QETB1HM-475	4.7MF 50V ELECTRO	
C515	QETB1CM-226	22MF 16V ELECTRO	
C516	QETB1CM-226	22MF 16V ELECTRO	
C521	QCY21HK-272	2700PF 50V CERAMIC	
C522	QCY21HK-272	2700PF 50V CERAMIC	
C523	QCS21HJ-471	470PF 50V CERAMIC	
C524	QCS21HJ-471	470PF 50V CERAMIC	
C525	QCY21HK-682	6800PF 50V CERAMIC	
C526	QCY21HK-682	6800PF 50V CERAMIC	
C527	QCY21HK-122	1200PF 50V CERAMIC	
C528	QCY21HK-122	1200PF 50V CERAMIC	
C529	QFN81HK-183	0.018MF 50V MYLAR	
C530	QFN81HK-183	0.018MF 50V MYLAR	
C531	QCY21HK-272	2700PF 50V CERAMIC	
C532	QCY21HK-272	2700PF 50V CERAMIC	
C533	QFN81HK-473	0.047MF 50V MYLAR	
C534	QFN81HK-473	0.047MF 50V MYLAR	
C535	QCY21HK-682	6800PF 50V CERAMIC	
C536	QCY21HK-682	6800PF 50V CERAMIC	
C537	QFN81HK-104	0.1MF 50V MYLAR	
C538	QFN81HK-104	0.1MF 50V MYLAR	
C539	QFN81HK-183	0.018MF 50V MYLAR	
C540	QFN81HK-183	0.018MF 50V MYLAR	
C541	QFV81HJ-274	0.27MF 50V T.FILM	
C542	QFV81HJ-274	0.27MF 50V T.FILM	
C543	QFN81HK-473	0.047MF 50V MYLAR	
C544	QFN81HK-473	0.047MF 50V MYLAR	
C545	QFV81HJ-684	0.68MF 50V T.FILM	
C546	QFV81HJ-684	0.68MF 50V T.FILM	
C547	QFN81HJ-124	0.12MF 50V MYLAR	
C548	QFN81HJ-124	0.12MF 50V MYLAR	
C553	QETB1HM-475	4.7MF 50V ELECTRO	
C554	QETB1HM-475	4.7MF 50V ELECTRO	
C557	QCF21HP-223	0.022MF 50V CERAMIC	
C558	QCF21HP-223	0.022MF 50V CERAMIC	
C559	QCF21HP-223	0.022MF 50V CERAMIC	

Δ : SAFETY PARTS

Resistors

ITEM	PART NUMBER	DESCRIPTION	AREA
R301	QRD167J-222	2.2K 1/6W CARBON	
R302	QRD167J-222	2.2K 1/6W CARBON	
R303	QRD167J-473	47K 1/6W CARBON	
R304	QRD167J-473	47K 1/6W CARBON	
R305	QRD167J-621	620 1/6W CARBON	
R306	QRD167J-621	620 1/6W CARBON	
R307	QRD167J-393	39K 1/6W CARBON	
R308	QRD167J-393	39K 1/6W CARBON	
R309	QRD167J-474	470K 1/6W CARBON	
R310	QRD167J-474	470K 1/6W CARBON	
R311	QRD167J-104	100K 1/6W CARBON	
R312	QRD167J-104	100K 1/6W CARBON	
Δ R313	QRD14CJ-391S	390 1/4W UNF. CARBON	
Δ R314	QRD14CJ-391S	390 1/4W UNF. CARBON	
Δ R321	QRD14CJ-680S	68 1/4W UNF. CARBON	A
Δ R321	QRZ0077-470	47 1/4W FUSIBLE	B
Δ R321	QRZ0077-470	47 1/4W FUSIBLE	C
Δ R321	QRZ0077-470	47 1/4W FUSIBLE	D
Δ R321	QRZ0077-470	47 1/4W FUSIBLE	E
Δ R322	QRD14CJ-680S	68 1/4W UNF. CARBON	A
Δ R322	QRZ0077-470	47 1/4W FUSIBLE	B
Δ R322	QRZ0077-470	47 1/4W FUSIBLE	C
Δ R322	QRZ0077-470	47 1/4W FUSIBLE	D
Δ R322	QRZ0077-470	47 1/4W FUSIBLE	E
R335	QRD167J-103	10K 1/6W CARBON	
R336	QRD167J-103	10K 1/6W CARBON	
R337	QRD167J-103	10K 1/6W CARBON	
R338	QRD167J-154	150K 1/6W CARBON	
R339	QRD167J-103	10K 1/6W CARBON	
R341	QRD167J-103	10K 1/6W CARBON	
R342	QRD167J-104	100K 1/6W CARBON	
R344	QRD167J-104	100K 1/6W CARBON	
R345	QRD167J-103	10K 1/6W CARBON	
R346	QRD167J-103	10K 1/6W CARBON	
R347	QRD167J-103	10K 1/6W CARBON	
R348	QRD167J-104	100K 1/6W CARBON	
R349	QRD167J-682	6.8K 1/6W CARBON	
R350	QRD167J-104	100K 1/6W CARBON	
R351	QRD167J-332	3.3K 1/6W CARBON	
R354	QRD167J-473	47K 1/6W CARBON	
Δ R361	QRD14CJ-680S	68 1/4W UNF. CARBON	A
Δ R361	QRZ0077-470	47 1/4W FUSIBLE	B
Δ R361	QRZ0077-470	47 1/4W FUSIBLE	C
Δ R361	QRZ0077-470	47 1/4W FUSIBLE	D
Δ R361	QRZ0077-470	47 1/4W FUSIBLE	E
Δ R362	QRD14CJ-680S	68 1/4W UNF. CARBON	A
Δ R362	QRZ0077-470	47 1/4W FUSIBLE	B
Δ R362	QRZ0077-470	47 1/4W FUSIBLE	C
Δ R362	QRZ0077-470	47 1/4W FUSIBLE	D
Δ R362	QRZ0077-470	47 1/4W FUSIBLE	E
R363	QRD167J-105	1M 1/6W CARBON	
R364	QRD167J-105	1M 1/6W CARBON	
R365	QRD167J-563	56K 1/6W CARBON	
R366	QRD167J-563	56K 1/6W CARBON	
R367	QRD167J-563	56K 1/6W CARBON	
R368	QRD167J-563	56K 1/6W CARBON	
R369	QRD167J-104	100K 1/6W CARBON	
R370	QRD167J-104	100K 1/6W CARBON	
R371	QRD167J-103	10K 1/6W CARBON	B
R371	QRD167J-103	10K 1/6W CARBON	C
R371	QRD167J-103	10K 1/6W CARBON	D
R371	QRD167J-103	10K 1/6W CARBON	E
R371	QRD167J-153	15K 1/6W CARBON	A
R372	QRD167J-103	10K 1/6W CARBON	B
R372	QRD167J-103	10K 1/6W CARBON	C
R372	QRD167J-103	10K 1/6W CARBON	D
R372	QRD167J-103	10K 1/6W CARBON	E
R372	QRD167J-153	15K 1/6W CARBON	A
R373	QRD167J-203	20K 1/6W CARBON	
R374	QRD167J-203	20K 1/6W CARBON	
R375	QRD167J-105	1M 1/6W CARBON	
R376	QRD167J-105	1M 1/6W CARBON	
R377	QRD167J-103	10K 1/6W CARBON	
R381	QRD167J-471	470 1/6W CARBON	
R382	QRD167J-471	470 1/6W CARBON	
R383	QRD167J-471	470 1/6W CARBON	
R384	QRD167J-471	470 1/6W CARBON	
R385	QRD167J-222	2.2K 1/6W CARBON	E
R385	QRD167J-471	470 1/6W CARBON	A
R385	QRD167J-471	470 1/6W CARBON	B
R385	QRD167J-471	470 1/6W CARBON	C
R385	QRD167J-471	470 1/6W CARBON	D
R386	QRD167J-222	2.2K 1/6W CARBON	E
R386	QRD167J-471	470 1/6W CARBON	A
R386	QRD167J-471	470 1/6W CARBON	B
R386	QRD167J-471	470 1/6W CARBON	C
R386	QRD167J-471	470 1/6W CARBON	D
R387	QRD167J-222	2.2K 1/6W CARBON	E
R387	QRD167J-471	470 1/6W CARBON	A
R387	QRD167J-471	470 1/6W CARBON	B

Resistors

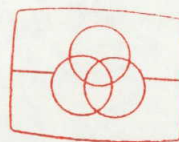
△	ITEM	PART NUMBER	DESCRIPTION			AREA
	R387	QRD167J-471	470	1/6W	CARBON	C
	R387	QRD167J-471	470	1/6W	CARBON	D
	R388	QRD167J-222	2.2K	1/6W	CARBON	E
	R388	QRD167J-471	470	1/6W	CARBON	A
	R388	QRD167J-471	470	1/6W	CARBON	B
	R388	QRD167J-471	470	1/6W	CARBON	C
	R388	QRD167J-471	470	1/6W	CARBON	D
	R389	QRD167J-471	470	1/6W	CARBON	
	R390	QRD167J-471	470	1/6W	CARBON	
	R391	QRD167J-105	1M	1/6W	CARBON	
	R392	QRD167J-105	1M	1/6W	CARBON	
	R401	QRD167J-473	47K	1/6W	CARBON	
	R402	QRD167J-473	47K	1/6W	CARBON	
	R403	QRD167J-473	47K	1/6W	CARBON	
	R404	QRD167J-473	47K	1/6W	CARBON	
	R405	QRD167J-473	47K	1/6W	CARBON	
	R406	QRD167J-512	5.1K	1/6W	CARBON	
	R407	QRD167J-473	47K	1/6W	CARBON	
	R408	QRD167J-123	12K	1/6W	CARBON	
	R411	QRD167J-271	270	1/6W	CARBON	
	R421	QRD167J-105	1M	1/6W	CARBON	
	R422	QRD167J-152	1.5K	1/6W	CARBON	
	R423	QRD167J-103	10K	1/6W	CARBON	
	R424	QRD167J-473	47K	1/6W	CARBON	
	R425	QRD167J-473	47K	1/6W	CARBON	
	R426	QRD167J-473	47K	1/6W	CARBON	
	R427	QRD167J-473	47K	1/6W	CARBON	
	R428	QRD167J-221	220	1/6W	CARBON	
	R429	QRD167J-272	2.7K	1/6W	CARBON	
	R430	QRD167J-220	22	1/6W	CARBON	
	R441	QRD167J-562	5.6K	1/6W	CARBON	
	R442	QRD167J-153	15K	1/6W	CARBON	
	R443	QRD167J-273	27K	1/6W	CARBON	
	R444	QRD167J-683	68K	1/6W	CARBON	
	R445	QRD167J-512	5.1K	1/6W	CARBON	
	R446	QRD167J-273	27K	1/6W	CARBON	
	R451	QRD167J-103	10K	1/6W	CARBON	
	R452	QRD167J-471	470	1/6W	CARBON	
	R453	QRD167J-473	47K	1/6W	CARBON	
	R454	QRD167J-223	22K	1/6W	CARBON	
	R455	QRD167J-103	10K	1/6W	CARBON	
	R461	QRD167J-103	10K	1/6W	CARBON	
	R462	QRD167J-471	470	1/6W	CARBON	
	R463	QRD167J-473	47K	1/6W	CARBON	
	R464	QRD167J-223	22K	1/6W	CARBON	
	R465	QRD167J-103	10K	1/6W	CARBON	
	R491	QRD167J-473	47K	1/6W	CARBON	
	R492	QRD167J-331	330	1/6W	CARBON	
	R501	QRD167J-203	20K	1/6W	CARBON	
	R502	QRD167J-203	20K	1/6W	CARBON	
	R503	QRD167J-154	150K	1/6W	CARBON	
	R504	QRD167J-154	150K	1/6W	CARBON	
	R505	QRD167J-184	180K	1/6W	CARBON	
	R506	QRD167J-184	180K	1/6W	CARBON	
	R507	QRD167J-102	1K	1/6W	CARBON	
	R508	QRD167J-102	1K	1/6W	CARBON	
	R509	QRD167J-103	10K	1/6W	CARBON	
	R510	QRD167J-103	10K	1/6W	CARBON	
	R511	QRD167J-103	10K	1/6W	CARBON	
	R512	QRD167J-103	10K	1/6W	CARBON	
	R513	QRD167J-224	220K	1/6W	CARBON	
	R514	QRD167J-224	220K	1/6W	CARBON	
	R515	QRD167J-154	150K	1/6W	CARBON	
	R516	QRD167J-154	150K	1/6W	CARBON	
	R517	QRD167J-682	6.8K	1/6W	CARBON	
	R518	QRD167J-682	6.8K	1/6W	CARBON	
	R519	QRD167J-103	10K	1/6W	CARBON	
	R520	QRD167J-103	10K	1/6W	CARBON	
	R521	QRD167J-104	100K	1/6W	CARBON	
	R522	QRD167J-104	100K	1/6W	CARBON	
△	R533	QRD14CJ-331S	330	1/4W	UNF. CARBON	
△	R534	QRD14CJ-391S	390	1/4W	UNF. CARBON	
	R537	QRD167J-681	680	1/6W	CARBON	
	R538	QRD167J-272	2.7K	1/6W	CARBON	
	R541	QRD167J-270	27	1/6W	CARBON	
	R542	QRD167J-100	10	1/6W	CARBON	
	RA501	QRB079J-474	470K	1/10W	R.NETWORK	
	RA502	QRB079J-474	470K	1/10W	R.NETWORK	

△ : SAFETY PARTS

Others

△	ITEM	PART NUMBER	DESCRIPTION	AREA
		E12194-003	CIRCUIT BOARD	
		E306692-001	HOLDER	
		E3400-444	FELT SPACER	
	J301	EMN00TV-604A	6P PIN JACK	
	J302	EMN00TV-604A	6P PIN JACK	
	P301	VMC0107-005	CONNECTOR	
	P303	QMV5005-002K	PLUG ASSY	
	P341	VMC0107-007	SOCKET	
	P701	VMC0107-003	CONNECTOR	
	EP401	E70859-001	EARTH PLATE	
	FL401	ELU0001-097	FL TUBE	
	FW101	EW38B-25LST	FLAT WIRE	
	FW103	EW36B-25LST	FLAT WIRE	
	FW105	EW33B-35LST	FLAT WIRE	B
	FW341	EW37B-35LST	FLAT WIRE	
	FW801	EW33B-45LST	FLAT WIRE	
	FW803	EW34B-25LST	FLAT WIRE	
	PA401	E75899-001	CONNECTOR	
	PA402	E75899-001	CONNECTOR	
	PA403	E75899-001	CONNECTOR	
	PB401	EMV7124-010	CONNECTOR	
	PB402	EMV7124-010	CONNECTOR	
	SW401	ESP0001-018	TACT SWITCH	
	SW402	ESP0001-018	TACT SWITCH	
	SW403	ESP0001-018	TACT SWITCH	
	SW404	ESP0001-018	TACT SWITCH	
	SW405	ESP0001-018	TACT SWITCH	
	SW406	ESP0001-018	TACT SWITCH	
	SW407	ESP0001-018	TACT SWITCH	
	SW408	ESP0001-018	TACT SWITCH	
	SW409	ESP0001-018	TACT SWITCH	
	SW410	ESP0001-018	TACT SWITCH	
	SW411	ESP0001-018	TACT SWITCH	
	SW412	ESP0001-018	TACT SWITCH	
	SW413	ESP0001-018	TACT SWITCH	
	SW414	ESP0001-018	TACT SWITCH	
	SW415	ESP0001-018	TACT SWITCH	
	SW416	ESP0001-018	TACT SWITCH	
	SW417	ESP0001-018	TACT SWITCH	
	SW418	ESP0001-018	TACT SWITCH	
	SW419	ESP0001-018	TACT SWITCH	
	SW420	ESP0001-018	TACT SWITCH	
	SW421	ESP0001-018	TACT SWITCH	
	SW422	ESP0001-018	TACT SWITCH	
	SW423	ESP0001-018	TACT SWITCH	
	SW424	ESP0001-018	TACT SWITCH	
	SW425	ESP0001-018	TACT SWITCH	
	SW426	ESP0001-018	TACT SWITCH	
	SW427	ESP0001-018	TACT SWITCH	
	SW428	ESP0001-018	TACT SWITCH	
	SW429	ESP0001-018	TACT SWITCH	
	SW430	ESP0001-018	TACT SWITCH	
	XT401	ECX0072-000EM	RESONATOR	
	XT421	ECX0001-000KS	RESONATOR	

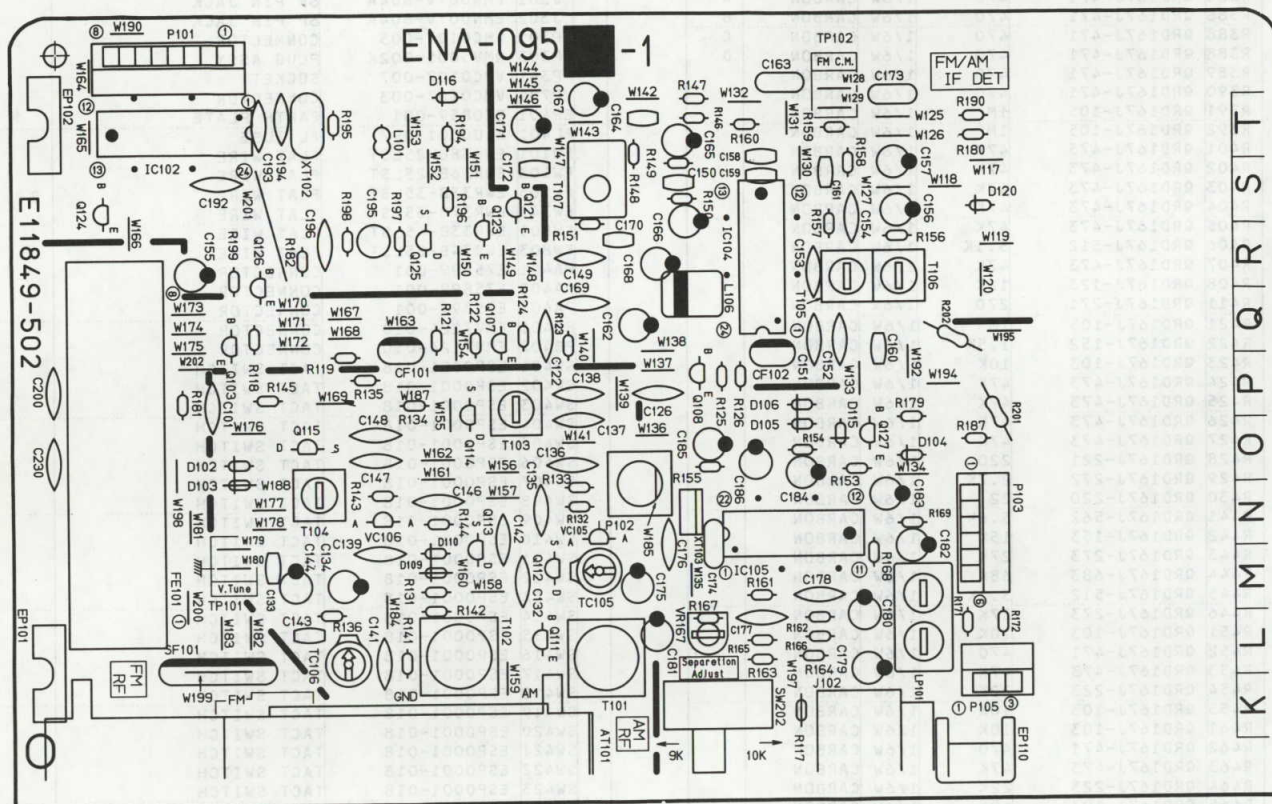
△ : SAFETY PARTS

Free service manuals
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Note : ENA-095 □ Varies according to the areas employed. See note (1) when placing an order.



A	ITEM	PART NUMBER	DESCRIPTION		AREA
				MAKER	
	Q103	2SC461(B,C)	SILICON	HITACHI	
	Q107	2SC535(B,C)	SILICON	HITACHI	
	Q108	2SC461(B,C)	SILICON	HITACHI	
	Q111	2SD1302(S,T)	SILICON	MATSUSHITA	K
	Q111	2SD1302(S,T)	SILICON	MATSUSHITA	M
	Q112	2SK301(Q,R)	F.E.T	MATSUSHITA	
	Q113	2SK301(Q,R)	F.E.T	MATSUSHITA	K
	Q113	2SK301(Q,R)	F.E.T	MATSUSHITA	M
	Q114	2SK301(P,Q)	F.E.T	MATSUSHITA	K
	Q114	2SK301(P,Q)	F.E.T	MATSUSHITA	M
	Q115	2SK301(P,Q)	F.E.T	MATSUSHITA	K
	Q115	2SK301(P,Q)	F.E.T	MATSUSHITA	M
	Q121	AN1A4P	SILICON	NEC	K
	Q121	AN1A4P	SILICON	NEC	M
	Q123	AN1A4P	SILICON	NEC	
	Q124	AN1A4P	SILICON	NEC	
	Q125	2SK301(Q2)	F.E.T	MATSUSHITA	
	Q126	2SC458(D)	SILICON	HITACHI	
	Q127	AA1L4M	SI.TRANSIS	NEC	

I.C.s

ITEM	PART NUMBER	DESCRIPTION	AREA
		MAKER	
IC102	LC7218	I.C.	SANYO
IC104	LA1266A	I.C.	SANYO
IC105	LA3401	I.C.	SANYO

Δ : SAFETY PARTS

Diodes

ITEM	PART NUMBER	DESCRIPTION	AREA
		MAKER	
D102	1SS119	SILICON HITACHI	K
D102	1SS119	SILICON HITACHI	M
D103	1SS119	SILICON HITACHI	K
D103	1SS119	SILICON HITACHI	M
D104	1SS119	SILICON HITACHI	
D105	1SS119	SILICON HITACHI	
D106	1SS119	SILICON HITACHI	
D109	1SS119	SILICON HITACHI	K
D109	1SS119	SILICON HITACHI	M
D110	1SS119	SILICON HITACHI	K
D110	1SS119	SILICON HITACHI	M
D115	1SS119	SILICON HITACHI	
D116	1SS119	SILICON HITACHI	
D120	1SS119	SILICON HITACHI	
VC105	SVC342(L)	VARICAP SANYO	K
VC106	SVC342(L)	VARICAP SANYO	M
VC106	SVC342(L)	VARICAP SANYO	

Δ : SAFETY PARTS

Capacitors

ITEM	PART NUMBER	DESCRIPTION	AREA
C101	QCF21HP-223	0.022MF 50V CERAMIC	
C122	QCF21HP-223	0.022MF 50V CERAMIC	
C126	QCF21HP-223	0.022MF 50V CERAMIC	
C132	QCS21HJ-561	560PF 50V CERAMIC	
C133	QCHB1EZ-223	0.022MF 25V CERAMIC	
C134	QETB1EM-106	10MF 25V ELECTRO	
C135	QCC21EM-223	0.022MF 25V CERAMIC	
C136	QCT26CH-180	18PF 50V CERAMIC	
C137	QCT26CH-221	220PF 50V CERAMIC	
C138	QCT26CH-241	240PF 50V CERAMIC	
C139	QCC21EM-223	0.022MF 25V CERAMIC	K
C139	QCC21EM-223	0.022MF 25V CERAMIC	M
C141	QCS21HJ-270	27PF 50V CERAMIC	K
C141	QCS21HJ-270	27PF 50V CERAMIC	M
C142	QCY21HK-272	2700PF 50V CERAMIC	K
C142	QCY21HK-272	2700PF 50V CERAMIC	M
C143	QCHB1EZ-223	0.022MF 25V CERAMIC	K
C143	QCHB1EZ-223	0.022MF 25V CERAMIC	M
C144	QETB1EM-106	10MF 25V ELECTRO	K
C144	QETB1EM-106	10MF 25V ELECTRO	M
C146	QCT26CH-680	68PF 50V CERAMIC	K
C146	QCT26CH-680	68PF 50V CERAMIC	M
C147	QCT26CH-220	22PF 50V CERAMIC	K
C147	QCT26CH-220	22PF 50V CERAMIC	M
C148	QCT26CH-121	120PF 50V CERAMIC	K
C148	QCT26CH-121	120PF 50V CERAMIC	M
C149	QCF21HP-223	0.022MF 50V CERAMIC	
C150	QCHB1EZ-223	0.022MF 25V CERAMIC	
C151	QCF21HP-223	0.022MF 50V CERAMIC	
C152	QCF21HP-223	0.022MF 50V CERAMIC	
C153	QCC21EM-223	0.022MF 25V CERAMIC	
C154	QCF21HP-223	0.022MF 50V CERAMIC	
C155	QETB1EM-226	22MF 25V ELECTRO	
C156	QETB1HM-475	4.7MF 50V ELECTRO	
C157	QETB1HM-474	0.47MF 50V ELECTRO	
C158	QCCB1HK-101	100PF 50V CERAMIC	
C159	QCCB1HK-101	100PF 50V CERAMIC	
C160	QCCB1HK-101	100PF 50V CERAMIC	K
C160	QCCB1HK-101	100PF 50V CERAMIC	M
C160	QCCB1HK-221	220PF 50V CERAMIC	H
C160	QCCB1HK-221	220PF 50V CERAMIC	I
C160	QCCB1HK-221	220PF 50V CERAMIC	J
C160	QCCB1HK-221	220PF 50V CERAMIC	L
C161	QCHB1EZ-223	0.022MF 25V CERAMIC	
C162	QETB1EM-106	10MF 25V ELECTRO	

Capacitors

ITEM	PART NUMBER	DESCRIPTION	AREA
C163	QFN81HJ-332	3300PF 50V MYLAR	
C164	QCHB1EZ-223	0.022MF 25V CERAMIC	
C165	QETB1HM-474	0.47MF 50V ELECTRO	
C166	QETB1HM-225	2.2MF 50V ELECTRO	
C167	QETB1HM-225	2.2MF 50V ELECTRO	
C168	QETB1HM-475	4.7MF 50V ELECTRO	
C169	QCF21HP-223	0.022MF 50V CERAMIC	
C170	QCHB1EZ-223	0.022MF 25V CERAMIC	
C171	QETB1EM-106	10MF 25V ELECTRO	
C172	QCVB1CM-103	0.01MF 16V CERAMIC	
C173	QFN81HK-223	0.022MF 50V MYLAR	
C174	QFN81HK-473	0.047MF 50V MYLAR	
C175	QETB1EM-106	10MF 25V ELECTRO	
C176	QCY21HK-102	1000PF 50V CERAMIC	
C177	QCS21HJ-271	270PF 50V CERAMIC	J
C177	QCS21HJ-271	270PF 50V CERAMIC	K
C177	QCS21HJ-271	270PF 50V CERAMIC	L
C177	QCS21HJ-271	270PF 50V CERAMIC	M
C177	QCS21HJ-561	560PF 50V CERAMIC	H
C177	QCS21HJ-561	560PF 50V CERAMIC	I
C178	QCS21HJ-271	270PF 50V CERAMIC	J
C178	QCS21HJ-271	270PF 50V CERAMIC	K
C178	QCS21HJ-271	270PF 50V CERAMIC	L
C178	QCS21HJ-271	270PF 50V CERAMIC	M
C178	QCS21HJ-561	560PF 50V CERAMIC	H
C178	QCS21HJ-561	560PF 50V CERAMIC	I
C179	QETB1HM-225	2.2MF 50V ELECTRO	
C180	QETB1HM-225	2.2MF 50V ELECTRO	
C181	QETB1EM-106	10MF 25V ELECTRO	
C182	QETB1HM-225	2.2MF 50V ELECTRO	
C183	QETB1HM-105	1MF 50V ELECTRO	
C184	QETB1HM-105	1MF 50V ELECTRO	
C185	QETB1HM-225	2.2MF 50V ELECTRO	
C186	QETB1HM-474	0.47MF 50V ELECTRO	
C192	QCC21EM-473	0.047MF 25V CERAMIC	
C193	QCS21HJ-180	18PF 50V CERAMIC	
C194	QCS21HJ-180	18PF 50V CERAMIC	
C195	QEN51HM-474	0.47MF 50V NON POLE	
C196	QCY21HK-102	1000PF 50V CERAMIC	
C230	QCF21HP-103	0.01MF 50V CERAMIC	
TC105	ENZ1003-006	TRIMMER	
TC106	ENZ1003-006	TRIMMER	K
TC106	ENZ1003-006	TRIMMER	M

Δ : SAFETY PARTS

Resistors

ITEM	PART NUMBER	DESCRIPTION	AREA
R117	QRD167J-100	10 1/6W CARBON	
R118	QRD167J-332	3.3K 1/6W CARBON	
R119	QRD167J-221	220 1/6W CARBON	
R121	QRD167J-391	390 1/6W CARBON	
R122	QRD167J-272	2.7K 1/6W CARBON	
R123	QRD167J-102	1K 1/6W CARBON	
R124	QRD167J-681	680 1/6W CARBON	
R125	QRD167J-332	3.3K 1/6W CARBON	
R126	QRD167J-221	220 1/6W CARBON	
R131	QRD167J-331	330 1/6W CARBON	
R132	QRD167J-103	10K 1/6W CARBON	
R133	QRD167J-473	47K 1/6W CARBON	
R134	QRD167J-103	10K 1/6W CARBON	K
R134	QRD167J-103	10K 1/6W CARBON	M
R135	QRD167J-470	47 1/6W CARBON	
R136	QRD167J-103	10K 1/6W CARBON	
R141	QRD167J-472	4.7K 1/6W CARBON	K
R141	QRD167J-472	4.7K 1/6W CARBON	M
R142	QRD167J-331	330 1/6W CARBON	K
R142	QRD167J-331	330 1/6W CARBON	M
R143	QRD167J-103	10K 1/6W CARBON	K
R143	QRD167J-103	10K 1/6W CARBON	M
R144	QRD167J-473	47K 1/6W CARBON	K
R144	QRD167J-473	47K 1/6W CARBON	M
R145	QRD167J-103	10K 1/6W CARBON	K
R145	QRD167J-103	10K 1/6W CARBON	M
R146	QRD167J-560	56 1/6W CARBON	
R147	QRD167J-103	10K 1/6W CARBON	
R148	QRD167J-103	10K 1/6W CARBON	
R149	QRD167J-223	22K 1/6W CARBON	
R150	QRD167J-103	10K 1/6W CARBON	
R151	QRD167J-224	220K 1/6W CARBON	
R153	QRD167J-103	10K 1/6W CARBON	
R154	QRD167J-103	10K 1/6W CARBON	
R155	QRD167J-562	5.6K 1/6W CARBON	

Resistors

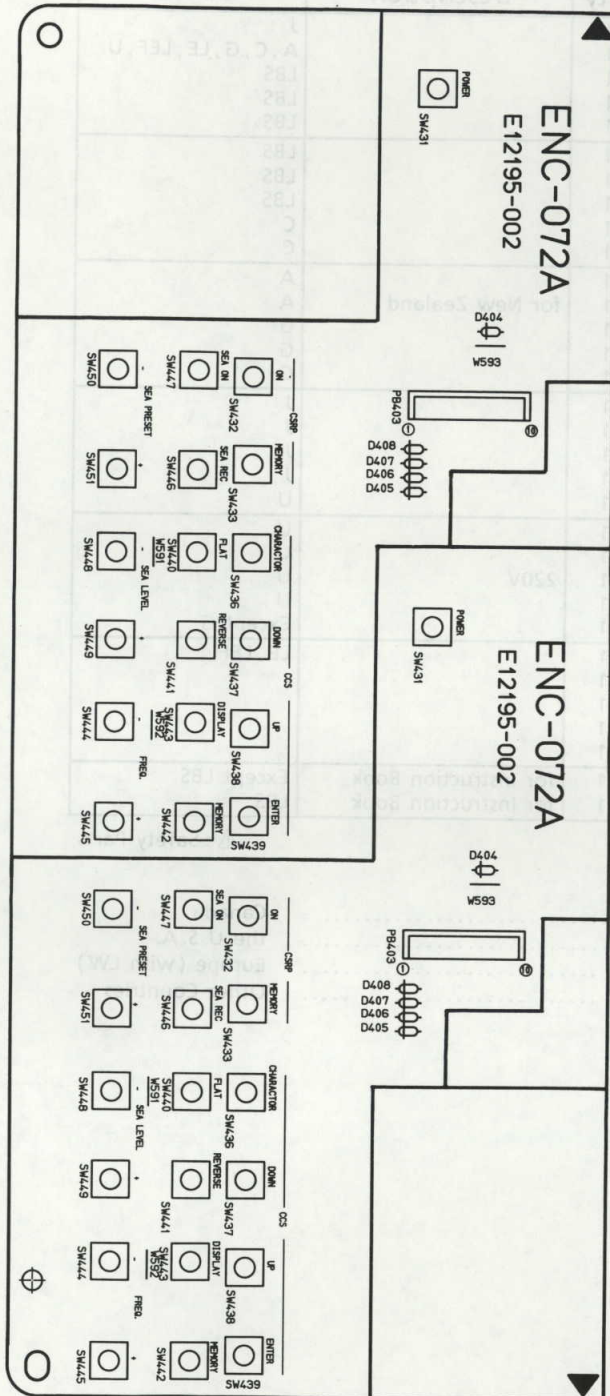
ITEM	PART NUMBER	DESCRIPTION	AREA
R156	QRD167J-822	8.2K 1/6W CARBON	
R157	QRD167J-103	10K 1/6W CARBON	
R158	QRD167J-183	18K 1/6W CARBON	H
R158	QRD167J-333	33K 1/6W CARBON	I
R158	QRD167J-333	33K 1/6W CARBON	J
R158	QRD167J-333	33K 1/6W CARBON	K
R158	QRD167J-333	33K 1/6W CARBON	L
R158	QRD167J-333	33K 1/6W CARBON	M
R159	QRD167J-561	560 1/6W CARBON	
R160	QRD167J-123	12K 1/6W CARBON	H
R160	QRD167J-123	12K 1/6W CARBON	I
R160	QRD167J-273	27K 1/6W CARBON	J
R160	QRD167J-273	27K 1/6W CARBON	K
R160	QRD167J-273	27K 1/6W CARBON	L
R160	QRD167J-273	27K 1/6W CARBON	M
R161	QRD167J-124	120K 1/6W CARBON	H
R161	QRD167J-124	120K 1/6W CARBON	I
R161	QRD167J-184	180K 1/6W CARBON	J
R161	QRD167J-184	180K 1/6W CARBON	K
R161	QRD167J-184	180K 1/6W CARBON	L
R161	QRD167J-184	180K 1/6W CARBON	M
R162	QRD167J-124	120K 1/6W CARBON	H
R162	QRD167J-124	120K 1/6W CARBON	I
R162	QRD167J-124	120K 1/6W CARBON	J
R162	QRD167J-124	120K 1/6W CARBON	K
R162	QRD167J-124	120K 1/6W CARBON	L
R162	QRD167J-124	120K 1/6W CARBON	M
R163	QRD167J-332	3.3K 1/6W CARBON	
R164	QRD167J-332	3.3K 1/6W CARBON	
R165	QRD167J-184	180K 1/6W CARBON	H
R165	QRD167J-184	180K 1/6W CARBON	I
R165	QRD167J-274	270K 1/6W CARBON	J
R165	QRD167J-274	270K 1/6W CARBON	K
R165	QRD167J-274	270K 1/6W CARBON	L
R165	QRD167J-274	270K 1/6W CARBON	M
R166	QRD167J-184	180K 1/6W CARBON	H
R166	QRD167J-184	180K 1/6W CARBON	I
R166	QRD167J-274	270K 1/6W CARBON	J
R166	QRD167J-274	270K 1/6W CARBON	K
R166	QRD167J-274	270K 1/6W CARBON	L
R166	QRD167J-274	270K 1/6W CARBON	M
R167	QRD167J-393	39K 1/6W CARBON	H
R167	QRD167J-393	39K 1/6W CARBON	I
R168	QRD167J-103	10K 1/6W CARBON	
R169	QRD167J-103	10K 1/6W CARBON	
R171	QRD167J-682	6.8K 1/6W CARBON	
R172	QRD167J-682	6.8K 1/6W CARBON	
R179	QRD167J-562	5.6K 1/6W CARBON	
R180	QRD167J-472	4.7K 1/6W CARBON	
R181	QRD167J-222	2.2K 1/6W CARBON	
R182	QRD167J-181	180 1/6W CARBON	
R187	QRD167J-101	100 1/6W CARBON	
R190	QRD167J-472	4.7K 1/6W CARBON	
R194	QRD167J-472	4.7K 1/6W CARBON	
R195	QRD167J-473	47K 1/6W CARBON	
R196	QRD167J-103	10K 1/6W CARBON	H
R196	QRD167J-103	10K 1/6W CARBON	I
R196	QRD167J-103	10K 1/6W CARBON	J
R196	QRD167J-222	2.2K 1/6W CARBON	K
R196	QRD167J-222	2.2K 1/6W CARBON	L
R196	QRD167J-222	2.2K 1/6W CARBON	M
R197	QRD167J-222	2.2K 1/6W CARBON	
R198	QRD167J-332	3.3K 1/6W CARBON	H
R198	QRD167J-332	3.3K 1/6W CARBON	I
R198	QRD167J-332	3.3K 1/6W CARBON	J
R198	QRD167J-822	8.2K 1/6W CARBON	K
R198	QRD167J-822	8.2K 1/6W CARBON	L
R198	QRD167J-822	8.2K 1/6W CARBON	M
R199	QRD167J-472	4.7K 1/6W CARBON	
Δ	R201	QRD145J-680S	68 1/4W UNF. CARBON H
Δ	R201	QRZ0062-680	68 1/4W FUSIBLE I
Δ	R201	QRZ0062-680	68 1/4W FUSIBLE J
Δ	R201	QRZ0062-680	68 1/4W FUSIBLE K
Δ	R201	QRZ0062-680	68 1/4W FUSIBLE L
Δ	R201	QRZ0062-680	68 1/4W FUSIBLE M
Δ	R202	QRD145J-470S	47 1/4W UNF. CARBON H
Δ	R202	QRZ0062-220	22 1/4W FUSIBLE L
Δ	R202	QRZ0062-470	47 1/4W FUSIBLE I
Δ	R202	QRZ0062-470	47 1/4W FUSIBLE J
Δ	R202	QRZ0062-470	47 1/4W FUSIBLE K
Δ	R202	QRZ0062-470	47 1/4W FUSIBLE M
Δ	VR167	QVPE601-104	100K 0.15W VARIABLE J
Δ	VR167	QVPE601-104	100K 0.15W VARIABLE K
Δ	VR167	QVPE601-104	100K 0.15W VARIABLE L
Δ	VR167	QVPE601-104	100K 0.15W VARIABLE M

Δ : SAFETY PARTS

Others

ITEM	PART NUMBER	DESCRIPTION	AREA
E11849	502	CIRCUIT BOARD	
J102	QMS3501-021	MINI JACK	
L101	EQL4004-1R0	INDUCTOR	
L106	EQL3001-102K	INDUCTOR	
P101	EMV7112-008	CONNECTOR	
P103	EMV7112-006	CONNECTOR	
P105	EMV7112-003	CONNECTOR	I
T101	EQR1111-014	AM RF COIL	
T102	EQR1111-005	AM RF COIL	K
T102	EQR1111-005	AM RF COIL	M
T103	EQR1207-015	MW OSC COIL	
T104	EQR1307-009	LW OSC COIL	K
T104	EQR1307-009	LW OSC COIL	M
T105	EQT2140-012	I.F. TRANSFORMER	
T106	EQT2140-013	I.F. TRANSFORMER	
T107	ECB1560-006	CERAMIC FILTER	
AT101	EMB41YV-301K	ANTENNA TERMINAL	K
AT101	EMB41YV-301K	ANTENNA TERMINAL	L
AT101	EMB41YV-401K	ANTENNA TERMINAL	H
AT101	EMB41YV-401K	ANTENNA TERMINAL	I
AT101	EMB41YV-401K	ANTENNA TERMINAL	J
AT101	EMB41YV-401K	ANTENNA TERMINAL	M
CF101	ECB2118-001R	CERAMIC FILTER	J
CF101	ECB2118-001R	CERAMIC FILTER	K
CF101	ECB2118-001R	CERAMIC FILTER	L
CF101	ECB2118-001R	CERAMIC FILTER	M
CF101	ECB2123-006R	CERAMIC FILTER	H
CF101	ECB2123-006R	CERAMIC FILTER	I
CF102	ECB2118-001R	CERAMIC FILTER	J
CF102	ECB2118-001R	CERAMIC FILTER	K
CF102	ECB2118-001R	CERAMIC FILTER	L
CF102	ECB2118-001R	CERAMIC FILTER	M
CF102	ECB2123-006R	CERAMIC FILTER	H
CF102	ECB2123-006R	CERAMIC FILTER	I
EP101	E70859-001	EARTH PLATE	
EP102	E70859-001	EARTH PLATE	
EP110	E70225-001	EARTH PLATE	
FE101	EAF2203-001	FRONT END	H
FE101	EAF2203-001	FRONT END	I
FE101	EAF2203-001	FRONT END	J
FE101	EAF2203-001	FRONT END	K
FE101	EAF2203-001	FRONT END	M
FE101	EAF2203-002	FRONT END	L
LP101	EQF0101-002	LOW PASS FILTER	
LP102	EQF0102-001	LOW PASS FILTER	L
SF101	EQF0201-006	BAND PASS FILTER	
SW202	QSS1201-039	SLIDE SWITCH	I
XT102	ECX0007-200KC	RESONATOR	
XT103	ECX0000-456KR	RESONATOR	

Δ : SAFETY PARTS

■ ENC-072 Front Switch PC Board Ass'y

Diodes

ITEM	PART NUMBER	DESCRIPTION		AREA
		MAKER		
D404	1SS133	SILICON	ROHM	
D405	1SS133	SILICON	ROHM	
D406	1SS133	SILICON	ROHM	
D407	1SS133	SILICON	ROHM	
D408	1SS133	SILICON	ROHM	

△ : SAFETY PARTS

Others

ITEM	PART NUMBER	DESCRIPTION	AREA
△	E12195-002(S)	CIRCUIT BOARD	
PB403	EMV7124-010	CONNECTOR	
SW431	ESP0001-018	TACT SWITCH	
SW432	ESP0001-018	TACT SWITCH	
SW433	ESP0001-018	TACT SWITCH	
SW436	ESP0001-018	TACT SWITCH	
SW437	ESP0001-018	TACT SWITCH	
SW438	ESP0001-018	TACT SWITCH	
SW439	ESP0001-018	TACT SWITCH	
SW440	ESP0001-018	TACT SWITCH	
SW441	ESP0001-018	TACT SWITCH	
SW442	ESP0001-018	TACT SWITCH	
SW443	ESP0001-018	TACT SWITCH	
SW444	ESP0001-018	TACT SWITCH	
SW445	ESP0001-018	TACT SWITCH	
SW446	ESP0001-018	TACT SWITCH	
SW447	ESP0001-018	TACT SWITCH	
SW448	ESP0001-018	TACT SWITCH	
SW449	ESP0001-018	TACT SWITCH	
SW450	ESP0001-018	TACT SWITCH	
SW451	ESP0001-018	TACT SWITCH	

△ : SAFETY PARTS

Accessories List

⚠	Part Number	Part Name	Q'ty	Description	Areas
	E30580-1580A	Instruction Book	1		J
	E30580-1588A	Instruction Book	1		A, C, G, LE, LEF, U
	E30580-1588ABS	Instruction Book	1		LBS
	BT20060	Warranty Card	1		LBS
	E43486-340A	Safety Sheet	1		LBS
	BT20066A	EEC Agency	1		LBS
	E43486-371A	Sheet	1		LBS
⚠	EMC0202-001BS	AC Plug	1		LBS
	BT-20025K	Warranty Card	1		C
	BT20071A	Service Center List	1		C
	BT20029C	Warranty Card	1	for New Zealand	A
	BT-20119	Warranty Card	1		A
	BT-20117	Warranty Card	1		G
	QZL1008-001	FTZ Information Sheet	1		G
	E67007-001	Wire Antenna	1		G
	BT20044F	AM Loop Antenna	1		J
	BT-20048C	Warranty Card	1		J
	BT20108	Service Information	1		J
	E66416-003	Envelope	1		J
	QMF51E2-4R0	Fuse	1		U
	E67142-T4R0	Fuse Label	1		U
	QPGA005-00703	Envelope	1	220V	U
⚠	E35497-015	Caution Sheet	1		U
	E040A56	Siemens Plug	1		U
	EWP502-001	Built in Antenna	1		Except G
	EMZ2001-011	Adapter	1		LE, LEF
	UM-3DJ-2PSA	Battery	1		
	RM-SR503U	Remote Controller	1		
	RM-SR503UBATC	Battery Cover	1		
	EQB4001-015	AM Loop Antenna	1		
	E41202-2	Envelope	1	for Instruction Book	Except LBS
	E41202-2B	Envelope	1	for Instruction Book	LBS

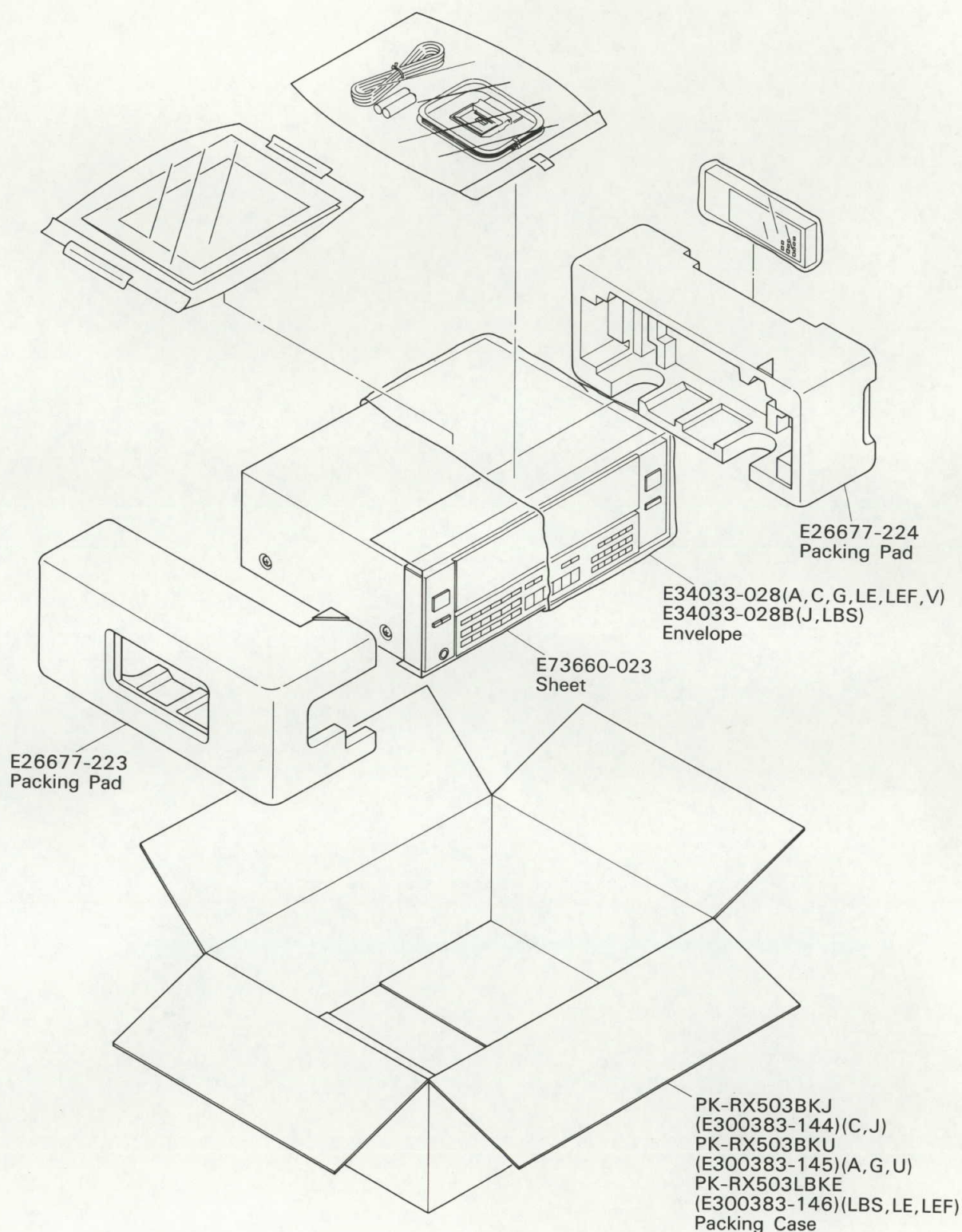
⚠ : Safety Parts

The Marks for Designated Areas

A		Australia	C		Canada
G		West Germany	J		the U. S. A.
LBS		the U. K. (with LW)	LE		Europe (with LW)
LEF		Europe	U		Other Countries

No mark indicates all areas.

Packing Materials and Part Numbers



The Marks for Designated Areas

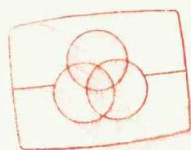
A
G
LBS
LEF
No mark indicates all areas.

Australia
West Germany
the U. K. (with LW)
Europe

C
J
LE
U

Canada
the U. S. A.
Europe (with LW)
Other Countries

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