

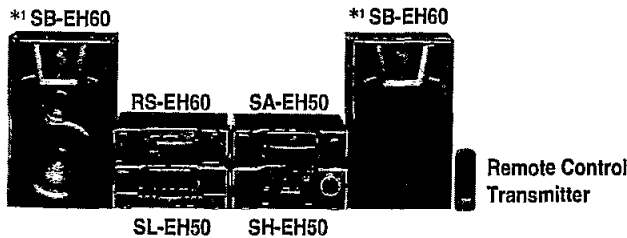
Service Manual

Tuner/Amplifier SA-EH50

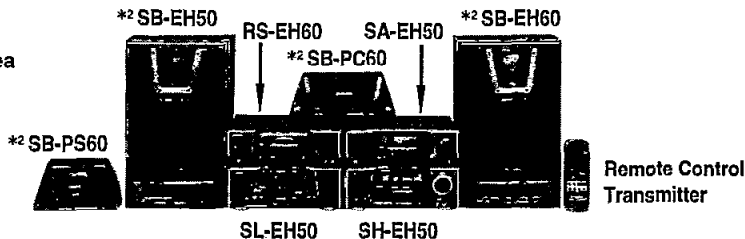
System: SC-EH50

Tuner/Amplifier

For
(E)/(EP), (EB) and
(EG) areas



For
(GC) area



Colour

(K) Black

Area

(E)/(EP) ... Europe, Russia.
(EB) Great Britain.
(EG) Germany and Italy.
(GC) Asia, Latin America,
Middle East and Africa.

Because of unique interconnecting cables,
when a component requires service, send
or bring in the entire system.

Specifications

Amplifier Section

Power output :

| | |
|--|-----------------|
| DIN 1 kHz, THD 1%, both channels driven | |
| For (E),(EB),(EG) and (EP) areas ; | 2 X 50 W(6 ohm) |
| For (GC) area ; | 2 X 35 W(6 ohm) |
| RMS 1 kHz, THD 10%, both channels driven | |
| For (E),(EB),(EG) and (EP) areas ; | 2 X 70 W(6 ohm) |
| For (GC) area ; | 2 X 50 W(6 ohm) |

(GC) area only

| | |
|-------------------------------|--|
| PRO LOGIC mode : | |
| DIN 1 kHz, THD 1% | |
| MAIN (both channels driven) ; | 2 X 30W(6 ohm) |
| CENTER ; | 30 W(8 ohm) |
| SURROUND ; | 30W(4 ohm + 4 ohm) |
| RMS 1 kHz, THD 10% | |
| MAIN (both channels driven) ; | 2 X 40 W(6 ohm) |
| CENTER ; | 40 W(8 ohm) |
| SURROUND ; | 40 W(4 ohm + 4 ohm) |
| PMPO 1 kHz ; | 1400 W |
| | (MAIN 6 ohm, CENT. 8 ohm, SURR. 4 ohm + 4 ohm) |

Total harmonic distortion :

| | |
|-------------------------------|----------------------|
| Rated power at 1 kHz ; | 1 %(6 ohm) |
| Half power at 1 kHz ; | 0.09 %(6 ohm) |
| Load impedance : | |
| MAIN ; | 6 ohm - 8 ohm |
| CENTER ; | 8 ohm |
| SURROUND ; | 4 ohm - 8 ohm |
| S/N (rated power) : | |
| MAIN ; | 80 dB |
| Frequency response ; | 50 Hz-30 kHz (-3 dB) |
| Input sensitivity/impedance : | |
| EXTERNAL, AUX ; | 250 mV/15 kohm |
| Output level : | |
| EXTERNAL RECOUT ; | 250 mV/1.5 kohm |

System/SC-EH50:

For (E),(EB),(EG) and (EP) areas
Sound processor: SH-EH50, Tuner/Amplifier: SA-EH50,
Front speakers: *1 SB-EH60
For (GC) area
Sound processor: SH-EH50, Tuner/Amplifier: SA-EH50,
Front speakers: *2 SB-EH50, Center speaker: *2 SB-PC60,
Note: *1 ...Made in PAES, *2...Made in MESA

V.BASS mode :

| | |
|----------------------|-------|
| Center frequency ; | 60 Hz |
| LEVEL (VOL -30 dB) ; | +8 dB |

FM tuner section

| | |
|------------------------------|-----------------------------------|
| Frequency range : | 87.50-108.00 MHz (0.05 MHz steps) |
| Sensitivity : | 1.8 μ V (IHF usable) |
| S/N 26 dB ; | 1.5 μ V |
| S/N : | |
| MONO ; | 70 dB (75 dB, IHF) |
| Stereo separation at 1 KHz ; | 35 dB |
| Antenna terminal(s) ; | 75 ohm (unbalanced) |

AM tuner section

| | |
|---------------------------|-----------------------------|
| Frequency range : | 522-1611 kHz (9 kHz steps) |
| | 530-1620 kHz (10 kHz steps) |
| Sensitivity (S/N 20 dB) : | 500 μ V/m |

Timer section

| | |
|------------|---|
| Clock : | Quartz-lock type |
| Function : | Play timer (1 time daily), REC timer (1 time daily), Sleep (120 min., 30 min. intervals) |
| Setting : | 1 minute-23 hours 59 minutes (1 min intervals) |

General

| | |
|---------------------------|------------------------------------|
| Power consumption : | 120 W |
| Power supply : | |
| For (E),(EG),(EP) areas ; | AC 220 V, 50/60 Hz |
| For (EB),(GN) areas ; | AC 230-240 V, 50 Hz |
| For (GC) area ; | AC 110/127/220/230-240 V, 50/60 Hz |
| Dimensions : | 287(W)/118.5(H)/343.5(D) mm |
| Weight : | 4.4 kg |

Note: Specifications are subject to change without notice.
Weight and dimensions are approximate.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Technics®

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Contents

| | Page | | Page |
|---|---------|--|---------|
| Before Repair | 2 | Schematic Diagram | 20 ~ 40 |
| Protection Circuitry | 2 | Type Illustration of IC's, Transistors and Diodes | 41 |
| Accessories | 2 | Printed Circuit Board Diagram | 42 ~ 48 |
| Caution for AC Main Lead | 3 | Wiring Connection Diagram | 49 |
| Connections | 4 ~ 6 | Terminal Function of IC's | 50 |
| Installation | 7 | Block Diagram | 51 ~ 57 |
| Location of Controls | 7 | Replacement Parts List (Electrical) [For (E) and (EB) areas] | 58, 59 |
| Setting the Time | 8 | Resistors and Capacitors [For (E) and (EB) areas] | 60 ~ 62 |
| Memory Presetting | 9, 10 | Replacement Parts List (Electrical) [For (EG) and (EP) areas] .. | 63, 64 |
| Listening to Radio Broadcasts | 11 | Resistors and Capacitors [For (EG) and (EP) areas] | 65 ~ 67 |
| Enjoying RDS Broadcasts [For (EG) and (EP) areas] | 12, 13 | Replacement Parts List (Electrical) [For (GC) area] | 68 ~ 70 |
| Operation Checks and | | Resistors and Capacitors [For (GC) area] | 71 ~ 74 |
| Main Component Replacement Procedures | 14 ~ 17 | Replacement Parts List (Cabinet, Packing and Accessory) | 75 |
| To Supply Power Source | 18 | Cabinet Parts Location | 76 |
| About the Self-Diagnostic Mode | 19 | Packaging | 77, 78 |

Before Repair

- Turn off the power supply. Using a 10 Ω , 10 W resistor, connect both ends of power supply capacitors (C701, C703 and C702, C704) in order to discharge the voltage.
- Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50/60 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 110V/ 230V/ 240V.

| Area | (E) (EG) (EP) | (EB) | (GC) | |
|------------------------|---------------|-------------|--------------|-------------|
| Power supply voltage | AC 230 V | AC 240 V | AC 110 V | AC 240 V |
| Consumed current 50 Hz | 70 ~ 250 mA | 70 ~ 250 mA | 240 ~ 600 mA | 70 ~ 250 mA |

Protection Circuitry

The protection circuitry may have operated if either of the following conditions is noticed:

- * No sound is heard when the power is switched ON.
- * Sound stops during a performance.

The functions of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlined below:

- Switch OFF the power.
- Determine the cause of the problem and correct it.
- Switch ON the power once again.

Note:

When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

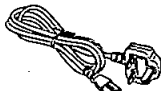
Accessories

AC power supply cord

- For (E)/(EP),(EG) and (GC) areas: (RJA0019-X) 1 pc.
For (EB) area: (RJA0053-1X) 1 pc.



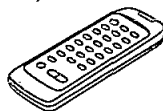
For (E)/(EP),(EG) and (GC) areas



For (EB) area

Remote control transmitter

- For (E)/(EP),(EB) and (EG) areas: (RAK-CH426WH) ... 1 pc.
For (GC) area: (RAK-CH220WH) 1 pc.



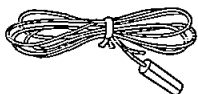
Speaker cords

- (REE0499) 2 pc.



FM indoor antenna

- For (E)/(EP),(EB) and (EG) areas: (RSA0007) .. 1 pc.
For (GC) area: (RSA0006) 1 pc.



For (E),(EG),(EG) and (EP) areas



For (GC) area

AM loop antenna

- (RSA0012) 1 pc.



Antenna holder

- (RMN0244) 1 pc.



Mounting screw

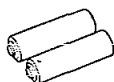
- (XTN3+12AFZ) 1 pc.



Batteries

- (UM-4, "AAA", R03) 2 pc.

Note: These are available on sales route.



Antenna plug adaptor

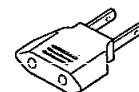
- (SJP9009) 1 pc.



(EB) area only

AC plug adaptor

- (SJP5213-1) 1 pc.



(GC) area only

■ Caution for AC Main Lead

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral, Brown: Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH LETTER E, BY THE EARTH SYMBOL \perp OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF-KEEP DRY.

Before use

Removal the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

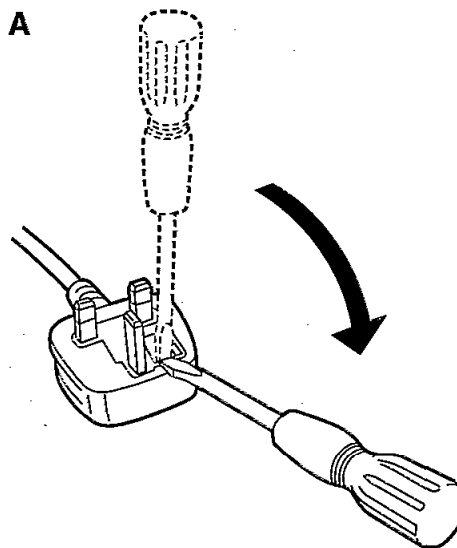
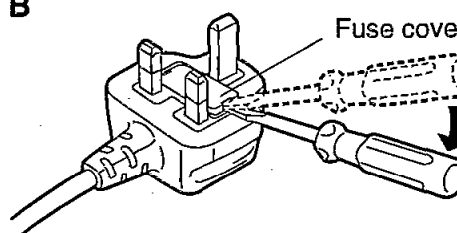


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

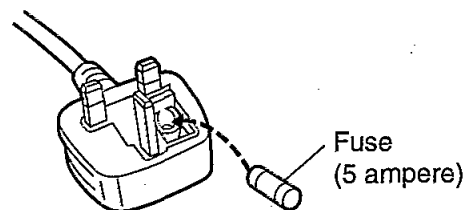
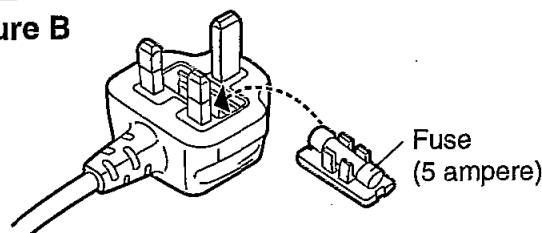


Figure B



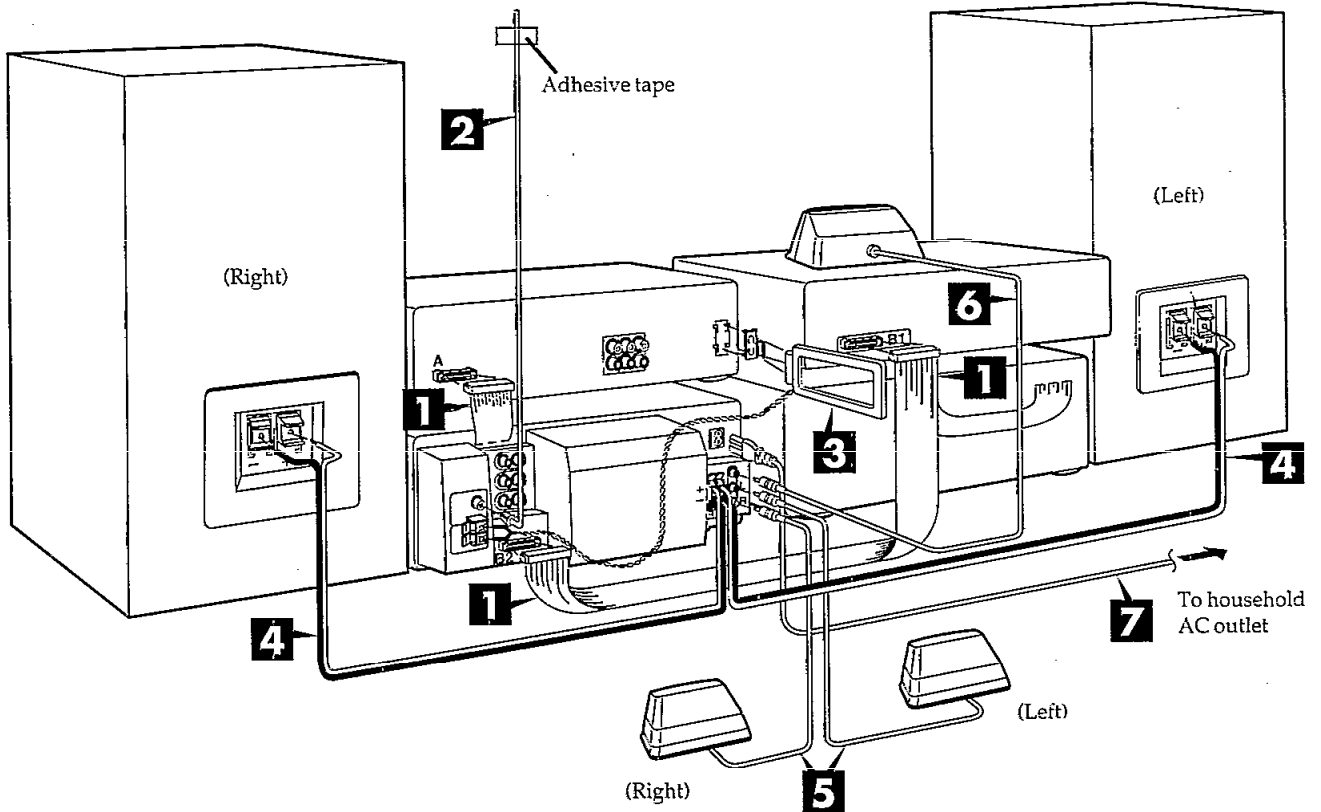
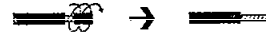
Connections

Connect the AC mains lead after you have connected all other cables.

(GC) area only

The configuration of the FM antenna terminal is different.

To prepare the AM loop antenna wire and speaker cords, twist the vinyl cover tip and pull off.



| | | |
|---|---|--|
| <p>1</p> <p>To connect cables To unplug cables</p> <p>Connector</p> <p>White line</p> | <p>3</p> | <p>5 For (GC) area only</p> <p>Bottom of the surround speaker</p> |
| <p>2 For (GC) area only</p> <p>Twist</p> <p>FM ANT 75Ω</p> <p>(For others)</p> | <p>4</p> <p>Tuner/amplifier side</p> <p>Red (+)</p> <p>Black (-)</p> <p>Speaker side</p> <p>Black (-)</p> <p>Red (+)</p> | <p>7 (Insertion of Connector)</p> <p>Appliance inlet</p> <p>Connector</p> <p>Approx. 6 mm</p> |

1 Connect the flat cables.

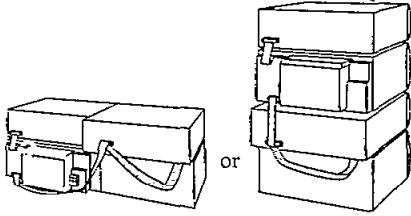
1. Connect the shorter flat cable from the tuner/amplifier to terminal A on the sound processor.
2. Connect the longer flat cable from the cassette deck to terminals B1 and B2.

Note

Do not try connecting or disconnecting the flat cables while the power is switched to ON.

After connection:

Keep cables as flat against the back of the unit as possible.

**2 Connect the FM indoor antenna.**

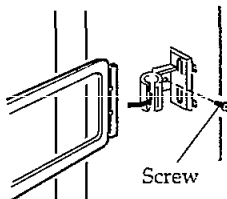
Tape the antenna to a wall or column, in a position where radio signals are received with the least amount of interference.

Note

When you cannot get good reception with this FM indoor antenna, we recommend you install an FM outdoor antenna (not included).

3 Connect the AM loop antenna.

- To install on the rear panel of the sound processor.
 1. Attach the antenna holder to the rear panel of the sound processor.
Then clamp the antenna into the antenna holder.
 2. Connect the antenna terminal to the rear panel of the tuner/amplifier.
- To install on walls or pillars.

**Note**

To minimize noise pickup, bundle the loop antenna cord using tape or the like to keep the flat cables away from the AM loop antenna cord.

4 Connect the right (R) and left (L) front speaker cables.**Note**

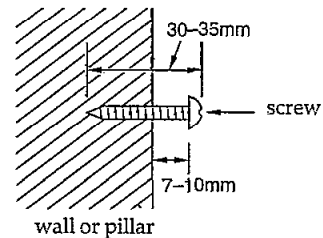
- To prevent damage to circuitry, never short-circuit positive (+) and negative (-) speaker wires.
- Be sure to connect only positive (red) wires to positive (+) terminals and negative (black) wires to negative (-) terminals.
- Left and right front speakers are exactly the same.

5 For (GC) area only**Connect the surround speaker cables.****Note**

- Connect the surround speakers after checking their bottom panels to see which one is for the left channel and which one is for the right channel.
- When the speakers are to be mounted on a wall, select screws which are suited for the type of wall concerned.
- It is recommended that the speaker cords be fitted into the hollows provided on the bottom panels of the surround speakers.

Speaker attachment to wall

Screw the wood screw into a thick and hard part of the wall, leaving 7-10 mm of the screw projecting from the wall surface. (The wall or pillar on which the speaker systems are to be attached should be capable of supporting a weight of 5 kilograms.)

**6 For (GC) area only****Connect the center speaker cables.****Note for front/center speakers**

These speakers are made so as to be able to be used in close proximity to the TV, but irregular coloring may result due to how the system is placed. If such distortion occurs, turn off the TV for sometime between 15 and 30 minutes. The demagnetizing function of the TV will eliminate the distortion. If the irregular coloring is still visible, then move the speaker further away from the TV.

Please note that if there is a magnetic object near the TV, irregular coloring may result due to the interaction between the TV and the speakers.

7 Connect the AC mains lead.**(United Kingdom only)**

BE SURE TO READ THE CAUTION FOR AC MAINS LEAD ON PAGE 3 BEFORE PROCEEDING TO STEP 7.

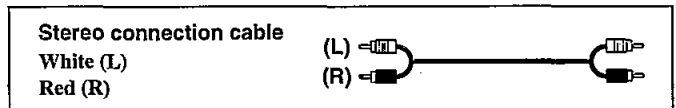
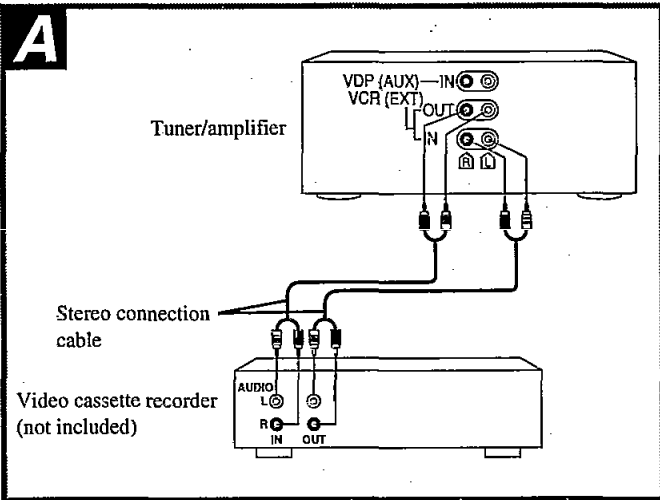
Insertion of Connector

Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.

However there is no problem using the unit.

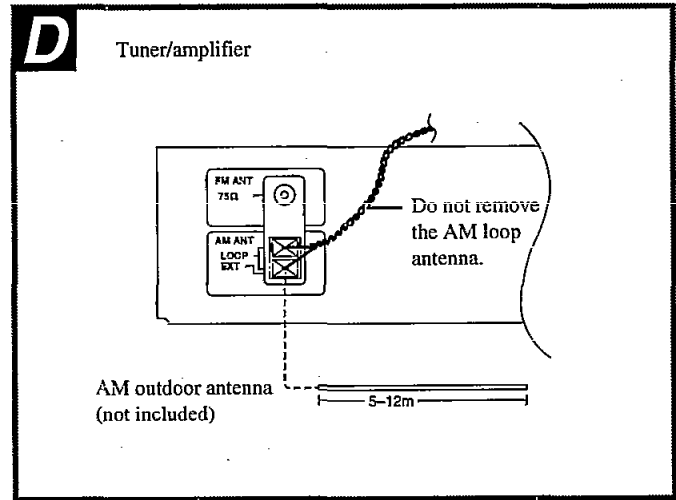
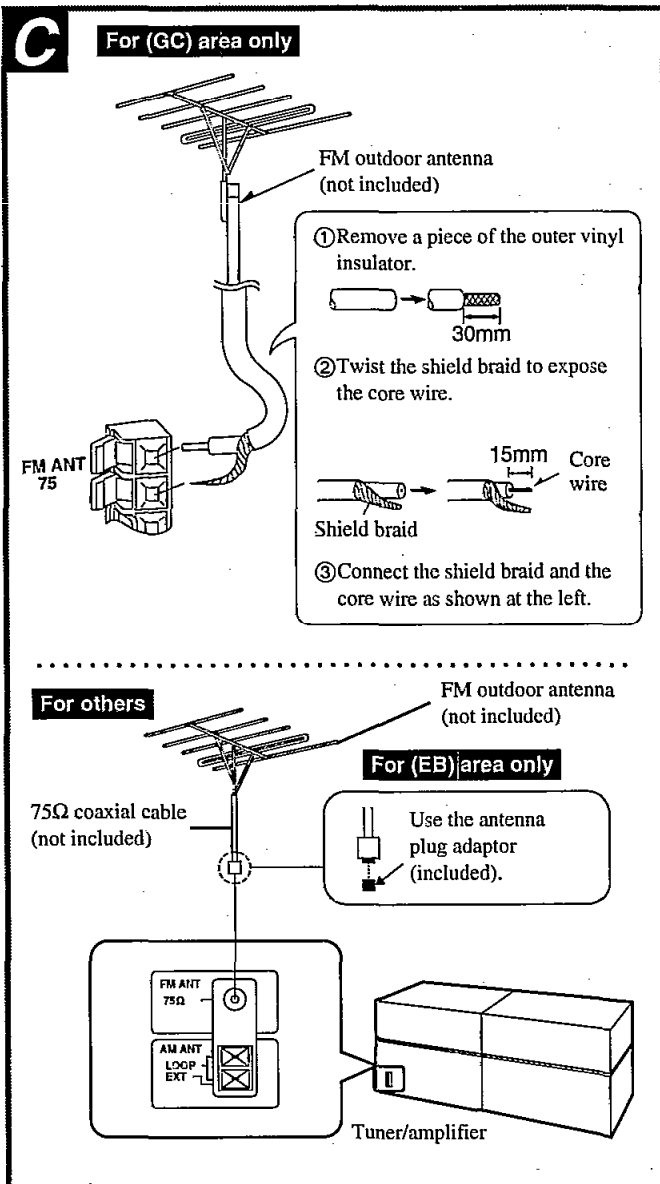
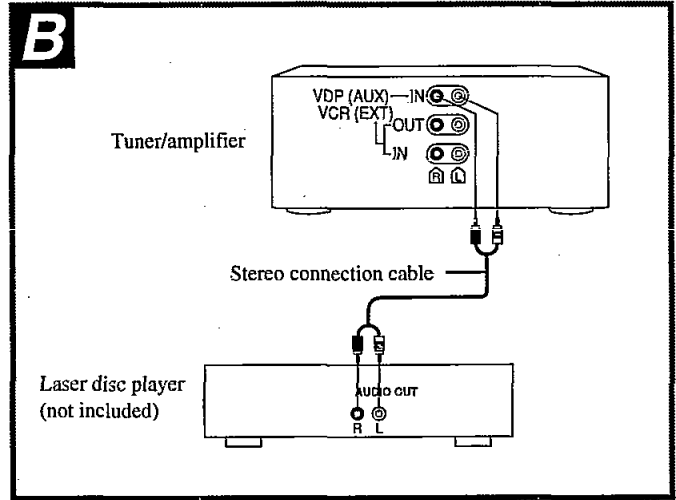
External unit connections

- Make sure that the power supply for all components has been turned off before making any connections.
- For details, refer to the operating instructions of the units which are to be connected.
- All peripheral components and cables sold separately.



A Video Cassette recorder

B Laser disc player



Optional antenna connections

You may need an outdoor antenna if you use this system in a mountainous region or inside a reinforced-concrete building, etc.

FM outdoor antenna (not included) C

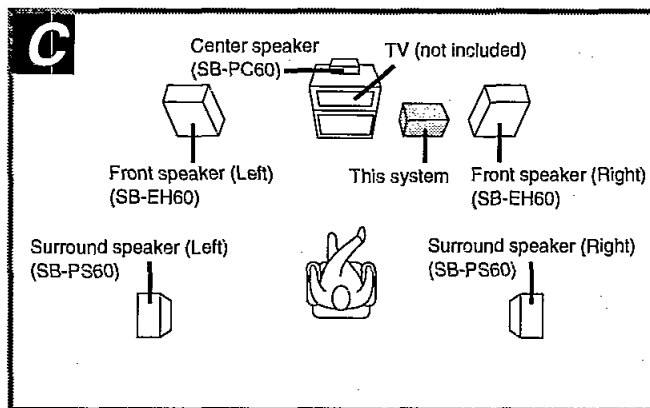
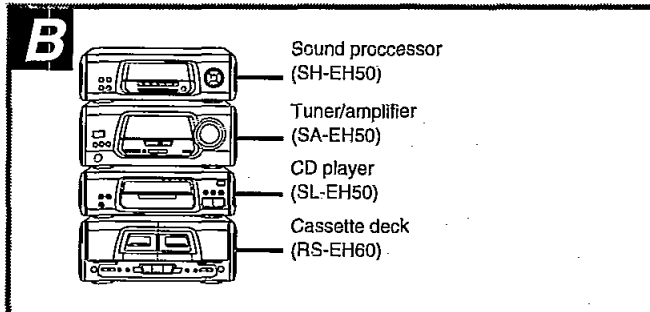
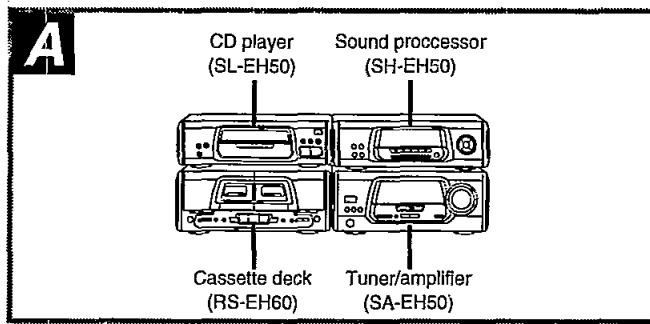
Note
An outdoor antenna should be installed by a qualified technician only.

AM outdoor antenna (not included) D

Connect the outdoor antenna without removing the AM loop antenna. Run 5 to 12 m of vinyl-covered wire horizontally along a window or other convenient location.

Note
When the unit is not in use, disconnect the outdoor antenna to prevent possible damage that may be caused by lightning. Never use an outdoor antenna during an electrical storm.

Installation



Locating the components

Side-by-side set-up **A**

Stacking **B**

Placement of speakers

(GC) area only

As well as enjoying normal stereo reproduction with the left and right front speakers, a center speaker and surround speakers can also be connected to the unit in order to enjoy the sound performance of DOLBY PRO LOGIC Systems.

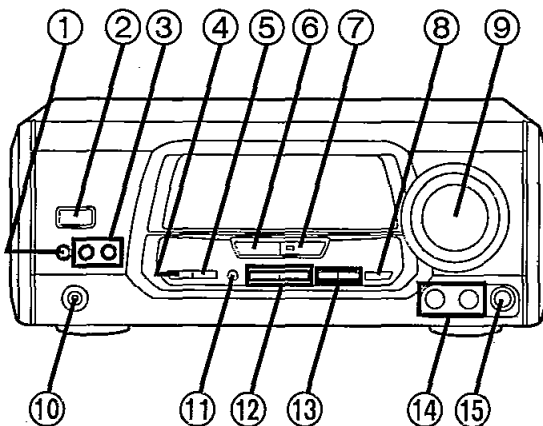
We recommend that surround speakers be placed on the side of or slightly behind the listener, and about one meter higher than ear level.

However the position should be adjusted to your personal preference, because the effect varies to some degree depending upon the type of music and the music source.

Caution

Use the speakers only with the recommended system. Failure to do so may lead to damage to the amplifier and/or the speaker, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.

Location of Controls



- ① Clock/timer button (CLOCK/TIMER)
- ② Power "STANDBY \odot /ON" switch (POWER, STANDBY \odot /ON)
- ③ Timer on/off buttons (\odot PLAY, \odot REC)
- ④ Tuning mode select button (TUNING MODE)
- ⑤ Set button (SET)
- ⑥ Source input select button (INPUT SELECTOR)
- ⑦ Tuner/band select button and indicator (TUNER/BAND)
- ⑧ V.bass button (V.BASS)
- ⑨ Volume control (VOLUME)
- ⑩ Headphones jack (PHONES)
- ⑪ FM mode select button (FM AUTO/MONO)
- ⑫ Tuning buttons (∇ , \blacktriangle , TUNING)

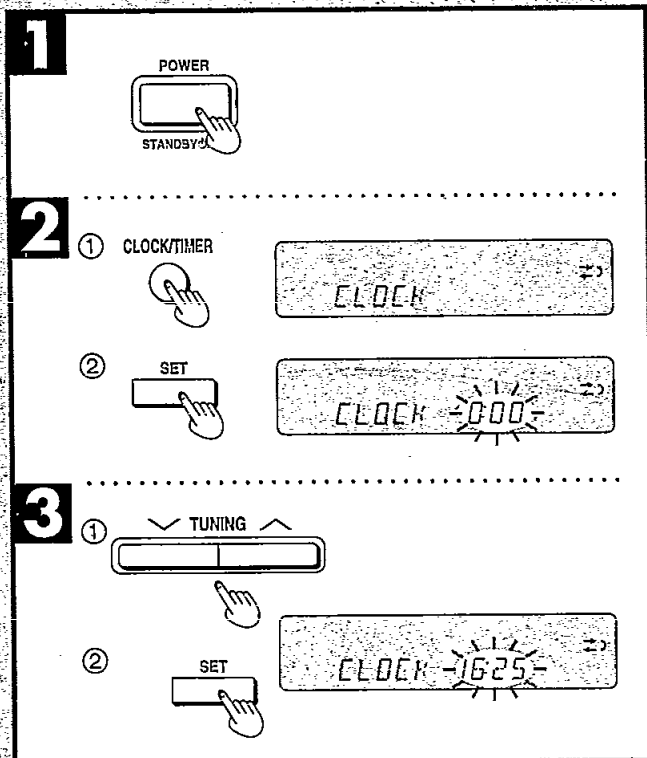
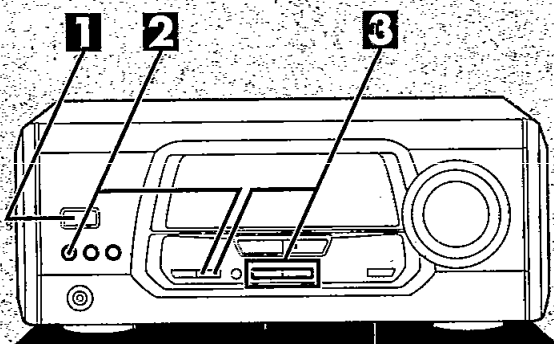
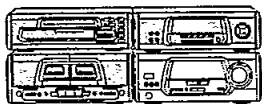
For (EG) and (EP) areas

- ⑬ RDS display mode select buttons

For (GC) area

- ⑬ KARAOKE and Echo buttons (KARAOKE, ECHO)
- ⑭ Microphone jacks (MIC, 1, 2)
- ⑮ Microphone volume control (MIC VOL)

■ Setting the Time



The tuner/amplifier displays the time, frequency and other information on CDs and tapes.

This is a 24-hour display clock.

These instructions explain how to set the timer for 16:25.

1 Switch on the power.

2 ① Press **CLOCK/TIMER** to show "CLOCK".
Every time you press the button, the indication changes in the order of CLOCK → \odot PLAY → \odot REC → Original display.

Within 5 seconds:

② Press **SET**.

3 ① Press **TUNING** (\vee or \wedge) to set the present time on the display.

The time display can be changed in one minute units by tapping the buttons, and quickly by holding down the buttons.

② Press **SET**.

The display will return to the previous display after about 3 seconds.

When "---" appears:

It appears when you connect the AC power supply cord for the first time or if there has been a power failure. Reset the time as explained above.

If the minutes setting is off:

1. Press **CLOCK/TIMER**.
2. Press **SET**.
3. Press **TUNING** (\vee or \wedge) to set the minutes, and then press **SET**.

To display the clock again:

Press **CLOCK/TIMER**.

The clock display will appear for about 5 seconds.

For your reference:

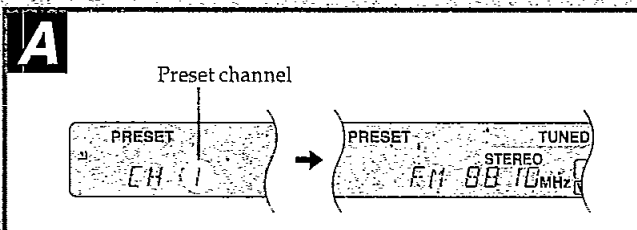
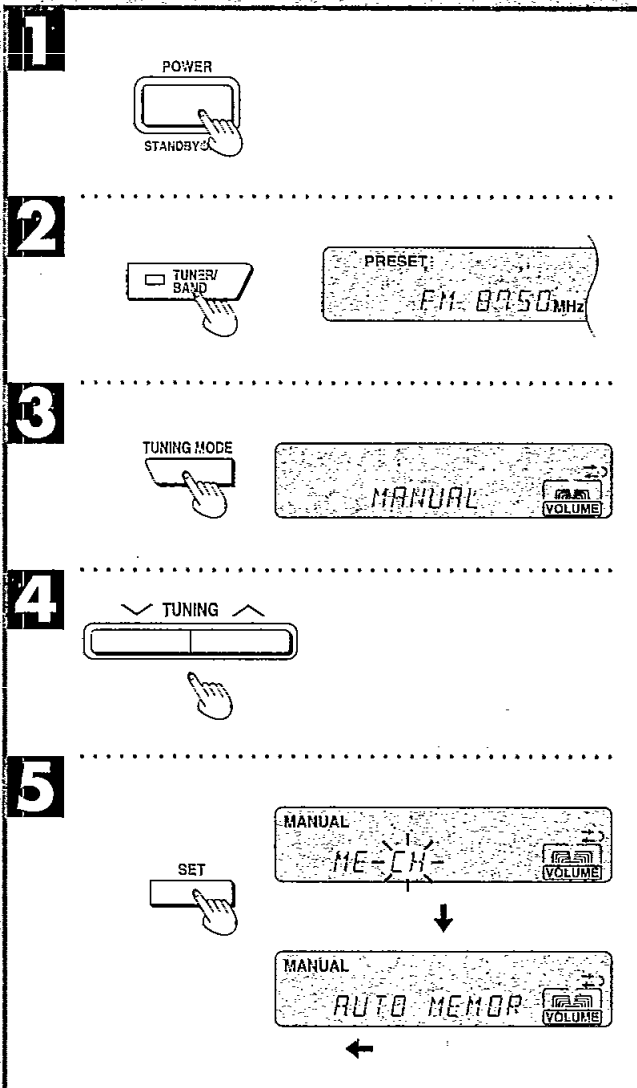
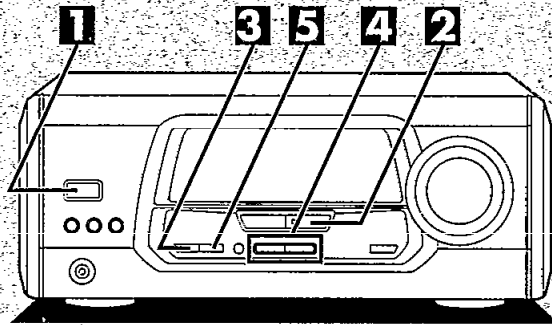
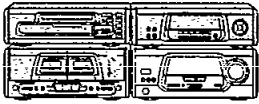
When you turn OFF the system from the **POWER** button, the system goes on standby.

Demo function while the power is on:

When the input source is set to "CD" or "TAPE", the demo function will run automatically after about 2 minutes or more in the stop mode.

You can cancel the demo function by pressing and holding **DISP MODE/-DEMO** for about 2 seconds or more while the automatic demo function is activated.

Memory Presetting



- Once stations have been preset, you can easily select them from the tuner/amplifier or the remote control.
- You can preset a total of 39 stations between the FM and AM bands.
- Stations can be set automatically or manually.

Automatic memory presetting

The frequencies are automatically preset (in sequence from lower to higher frequencies) into the memory: "channels" 1 to 39 are available for the presetting of FM stations and "channels" 21 to 39 are available for AM stations.

This example in the figure shows how to preset FM stations.

- 1 Switch on the power.**
- 2 Press TUNER/BAND to select the desired band.**
Each time you press this button, "FM" and "AM" will appear alternately.
- 3 Press TUNING MODE to select "MANUAL".**
Each time you press this button, "MANUAL" and "PRESET" will appear alternately.
- 4 Press and hold TUNING (∨ or ∧) until the display shows the frequency from which you want to begin automatic memory presetting.**
Press TUNING (∨ or ∧) momentarily to stop scrolling when the displayed frequency approaches the desired frequency. Tap TUNING (∨ or ∧) a few times until the desired frequency is reached.
- 5 Hold down SET.**
Release your finger when the words "AUTO MEMORY" scroll across the display.

The "ME" in the display will then flash while the tuner/amplifier is storing the received frequency in memory. When storing is complete, "SET OK" will be displayed.

To confirm the preset stations: **A**

1. Press TUNING MODE to select "PRESET".
2. Press TUNING (∨ or ∧).

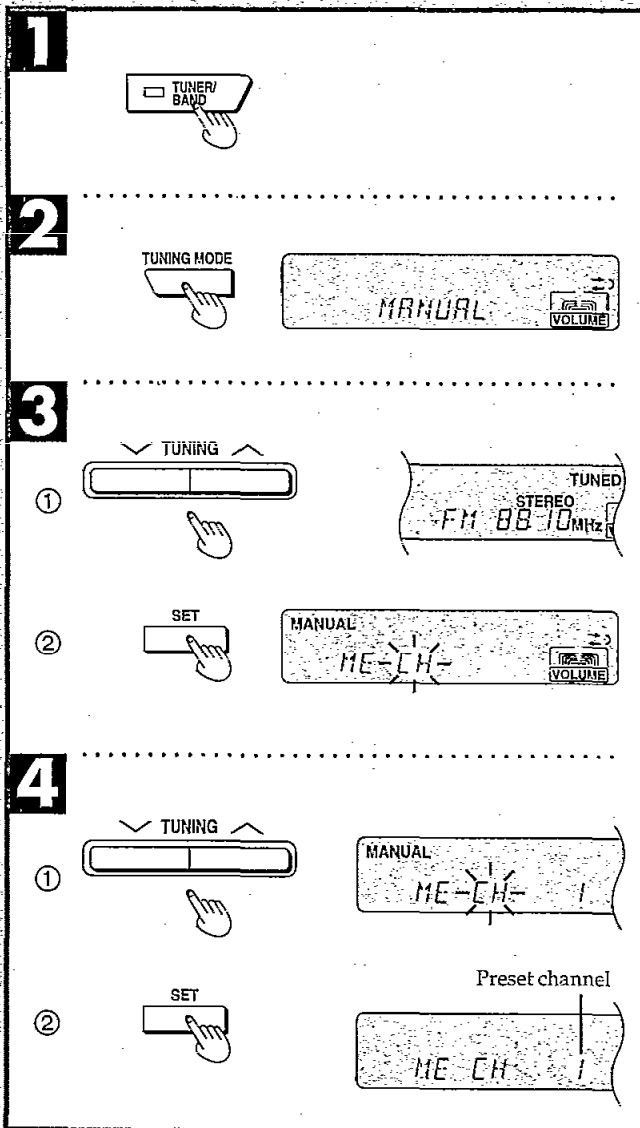
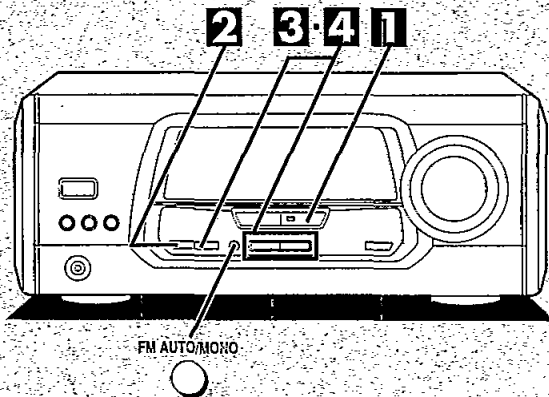
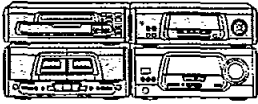
"STEREO" lights when an FM stereo broadcast is being received.
"TUNED" lights when you precisely tune in a broadcast station.

When "ERROR" appears:

Automatic memory presetting does not work when radio waves from the broadcasting station are too strong or too weak.
In such case, carry out presetting manually.

Note

When you preset a broadcast station to a channel that has already been preset, the previous presetting will be erased. So if, for example, FM frequencies are preset from channel 1 to 39 and then AM frequencies are preset, the first AM frequency will be preset to channel 21 (thus erasing the FM presetting to channel 21), the second AM frequency will be preset to 22 (erasing FM 22), and so on.



Manual memory presetting

This example in the figure shows how to store FM 88.10 MHz into preset channel 1.

- 1** Press **TUNER/BAND** to select the desired band.
Each time you press this button, "FM" and "AM" will appear alternately.
- 2** Press **TUNING MODE** to select "MANUAL".
Each time you press this button, "MANUAL" and "PRESET" will appear alternately.
- 3** **①** Press **TUNING** (∇ or \blacktriangle) to tune in the desired broadcast.
"STEREO" lights when an FM stereo broadcast is being received.
"TUNED" lights when you precisely tune in a broadcast station.

Automatic scanning:

Press and hold **TUNING** (∇ or \blacktriangle) until the displayed frequency starts to scroll.

- The scrolling of the displayed frequency will automatically stop if a broadcast station frequency is located during the tuning process.

- When there is excessive interference, the automatic scanning may not function.

To cancel the automatic scanning, press **TUNING** (∇ or \blacktriangle) once again.

- ②** Press **SET** momentarily.
"CH" flashes.

- 4** **①** Press **TUNING** (∇ or \blacktriangle) to select the desired preset channel
- ②** Press **SET** momentarily.
"CH" lights and the display returns to the frequency after about two seconds.

To continue presetting:

Repeat steps **1** through **4**.

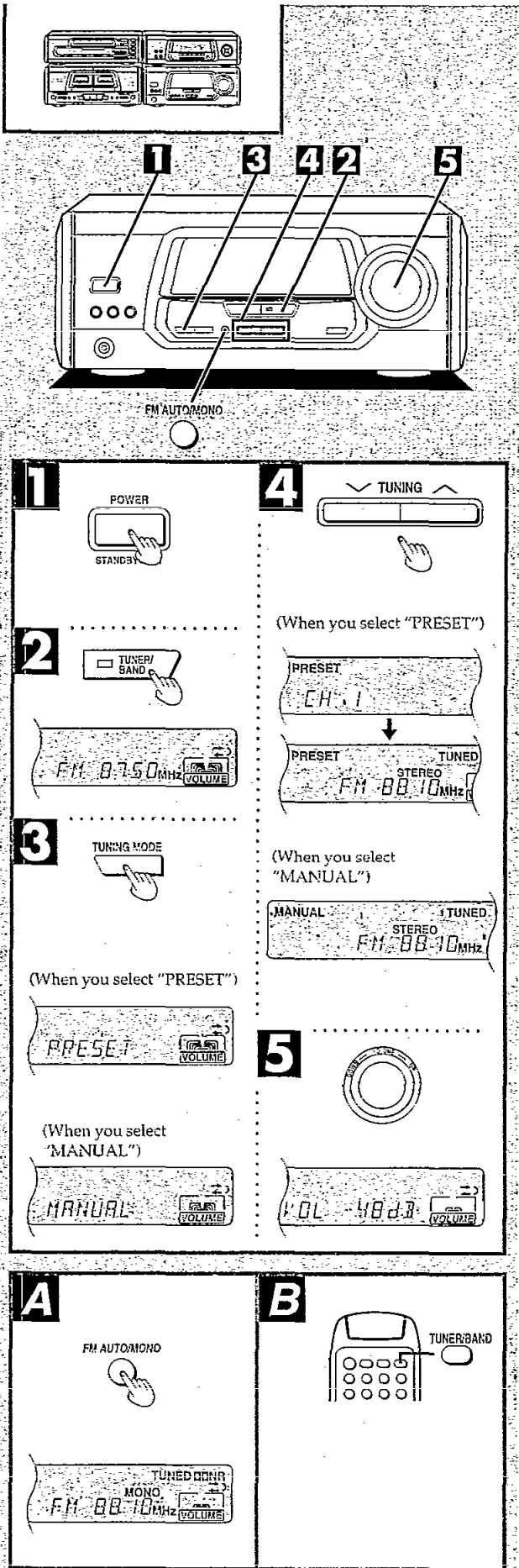
To preset FM stations in monaural position:

1. Select the desired frequency.
2. Press **FM AUTO/MONO**.
"MONO" will light.
3. Follow steps **3-②** and **4** above.

For your reference:

Even if the power cord is disconnected from the household AC outlet, the memory will retain its contents for approximately 2 weeks.

■ Listening to Radio Broadcasts



Listening to radio broadcasts

This example in the figure shows how to tune in FM stations.

- 1** Switch on the power.
- 2** Press TUNER/BAND to select the desired band.
Each time you press this button, "FM" and "AM" will appear alternately.
- 3** Press TUNING MODE to select "PRESET" or "MANUAL".
Each time you press this button, "MANUAL" and "PRESET" will appear alternately.
 - Select "PRESET" when stations are preset.
 - Select "MANUAL" when stations are not preset.

- 4** Press TUNING (∨ or ∧) to tune in the desired broadcast.

"STEREO" lights when an FM stereo broadcast is being received.

"TUNED" lights when you precisely tune in a broadcast station.

Automatic scanning (when you select "MANUAL" in step 3):

Press and hold TUNING (∨ or ∧) until the displayed frequency starts to scroll.

- The scrolling of the displayed frequency will automatically stop if a broadcast station frequency is located during the tuning process.

- When there is excessive interference, the automatic scanning may not function.

To cancel the automatic scanning, press TUNING (∨ or ∧) once again.

- 5** Adjust the volume level as you like.

For tuning by remote control (when you select "PRESET" in step 3 above):

Specify the channel you want with the numeric buttons.

To select a two-digit channel:

Press ≥10 and then the two numbers you want within 10 seconds or so.

Note

When the FM station is preset to "MONO", the "STEREO" indicator will not light up even if a stereo broadcast is being received.

If noise is excessive in the FM stereo mode: **A**

Press FM AUTO/MONO.

The sound reception mode switches to "MONO" (monaural) and "MONO" lights.

The sound will then be heard in monaural. If the broadcast signal is weak, or if there is a large amount of interference, you will get a clearer sound using MONO function.

To cancel the "MONO" mode, press the button again.

When "MONO" indicator goes off:

Use this setting for normal listening. Both stereo and monaural sounds can be heard as they are.

Note

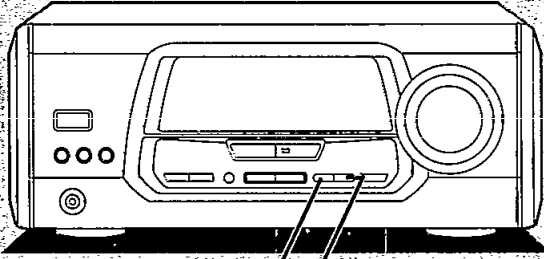
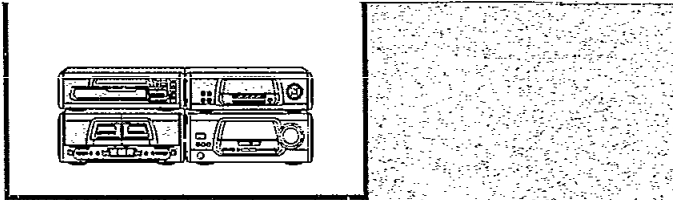
If you change frequencies in the "MONO" mode, the "MONO" mode will be cancelled.

One-touch play **B**

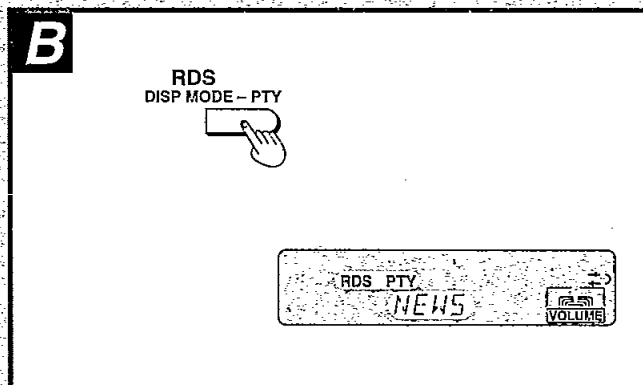
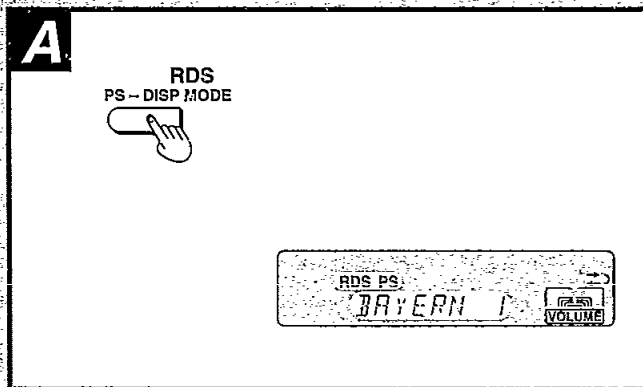
When the system is OFF, you can receive the station last tuned in when you press TUNER/BAND on the remote control.

Play will start with volume increasing gradually.

■ Enjoying RDS Broadcasts [For (EG) and (EP) areas]



RDS
PS - DISP MODE - PTY



This unit lets you take advantage of the Radio Data System (RDS) in areas where RDS broadcast services are received. This advanced system provides useful information, utilizing a 57 kHz subcarrier above the audible range, in addition to the main FM signal.

Types of RDS and functions

To display the name of a broadcast station (PS display):
When this system receives a PS signal in an RDS broadcast, the name of the broadcast station is shown on the display.

To display the type of a program (PTY display):
While the PTY signal is being received, the name of the type of program currently being broadcast can be shown on the display.

Notes

- Even if an FM broadcast station is transmitting RDS signals, the functions of this system may not be able to utilize these signals if the signal quality is too poor.
- "PTY" may not be available in some areas. (Future function)

To display the name of a broadcasting station A

(When the FM station is received)
Press PS-DISP MODE.

If the FM broadcast being received provides the RDS service ("RDS" indicator will light), the name of the broadcast station and "PS" indicator will be shown on the display of this system.

Each time you press the button, frequency display and PS display will appear alternately.

To display the type of a program B

(When the FM station is received)
Press DISP MODE-PTY.

If the FM broadcast being received provides the RDS service ("RDS" indicator will light), the type of the program and "PTY" indicator will be shown on the display of this system.

Each time you press the button, frequency display and PTY display will appear alternately.

When "NO RDS" is displayed

If the FM broadcast being received does not provide RDS service, "NO RDS" will be displayed when the PS display mode or PTY display mode is selected.

Note

When receiving a broadcast station, in PTY mode, which does not transmit PTY, the display will not show "NO PTY" automatically. The same also applies to "NO RDS" when RDS is not transmitted.

About the PTY display

There are a total of 15 PTY displays on this unit. The table gives an explanation of each display.

| Display | Explanation |
|-----------------|---|
| NEWS | Short accounts of facts, events and publicly expressed views, reportage and actuality. |
| AFFAIRS | Topical program expanding or enlarging upon the news, generally in different presentation style or concept, including documentary debate, or analysis. |
| INFO | Program whose purpose is to impart advice in the widest sense, including meteorological reports and forecasts, consumer affairs, medical help, etc. |
| SPORT | Program concerned with any aspect of sport. |
| EDUCATE | Program intended primarily to educate. |
| DRAMA | All radio plays and serials. |
| CULTURE | Programs concerned with any aspect of national or regional culture, including religious affairs, philosophy, social science, language, theatre, etc. |
| SCIENCE | Programs about the natural sciences and technology. |
| VARIED | Used for mainly speech-based programs, usually of a light-entertainment nature not covered by above categories. Examples are: quizzes, panel games, personality interviews, comedy and satire. |
| POP M | Commercial music which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts. |
| ROCK M | Contemporary modern music, usually written and performed by young musicians. |
| M.O.R.M | (Middle of the Road Music). Common term to describe music considered to be "easy-listening", as opposed to Pop, Rock or Classical. Music in this category is often, but not always, vocal, and usually of short duration (<5 min.). |
| LIGHT M | Classical Musical for general, rather than specialist, appreciation. Examples of music in this category are instrumental music and vocal or choral works. |
| CLASSICS | Performances of major orchestral works, symphonies, chamber music etc., and including Grand Opera. |
| OTHER M | Musical styles not fitting into any of the above categories. Particularly used for specialist music, of which Jazz, Rhythm & Blues, Folk, Country, and Reggae are examples. |

■ Operation Checks and Main Component Replacement Procedures

NOTE

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.
4. Refer the parts No. on the page of "Main Component Replacement Procedures", if necessary.

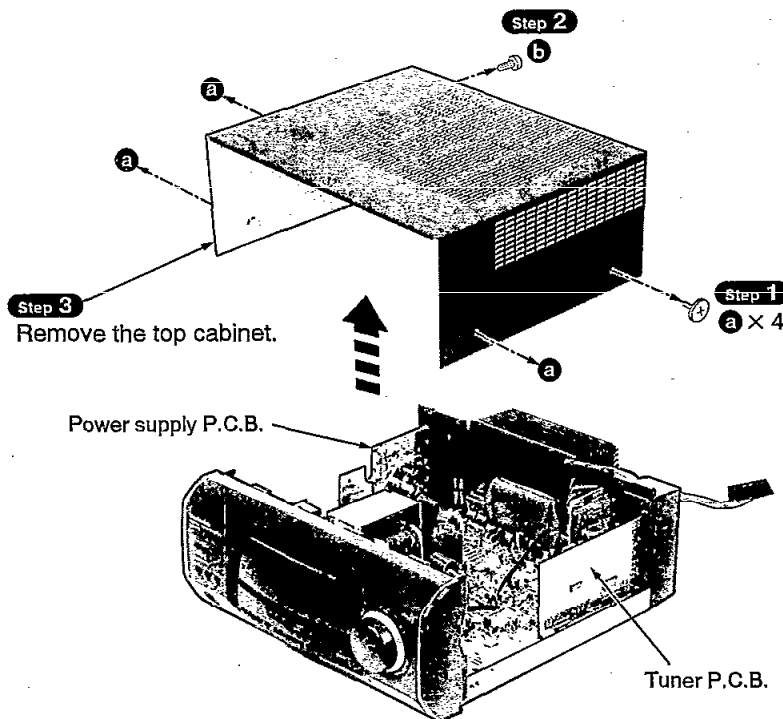
● Contents

| ● Checking procedures for each P.C.B. | Page. |
|--|--------|
| 1. Checking for the tuner P.C.B. and power supply P.C.B. | 14. |
| 2. Checking for the operation P.C.B. | 15. |
| 3. Checking for the main P.C.B. | 15,16. |
| | |
| ● Main Component Replacement Procedures | |
| 1. Replacement for the power IC and regulator transistor. | 17. |

■ Checking procedures for each P.C.B.

1. Checking for the tuner P.C.B. and power supply P.C.B.

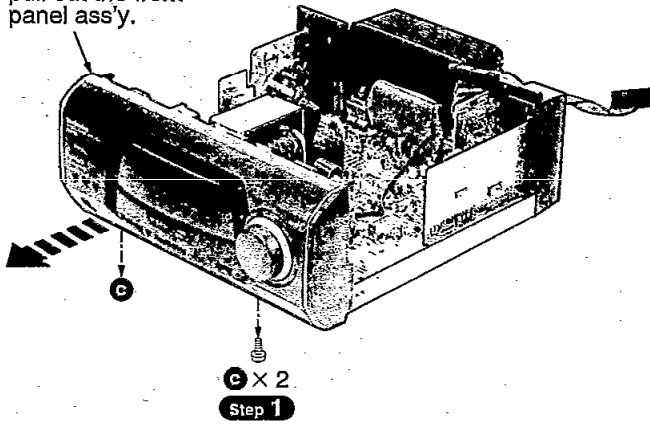
• Check the tuner P.C.B. and power supply P.C.B. as shown below.



2. Checking for the operation P.C.B.

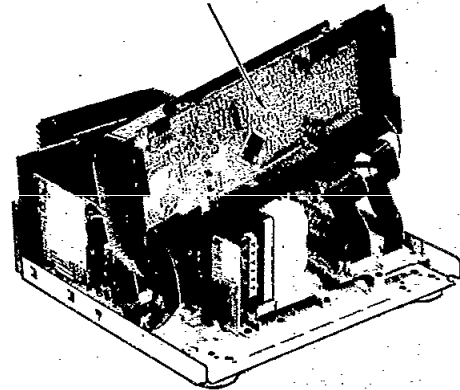
• Follow the **Step 1** ~ **Step 3** of the item 1 in checking procedure for each P.C.B. on page 14.

Step 2
pull out the front panel ass'y.



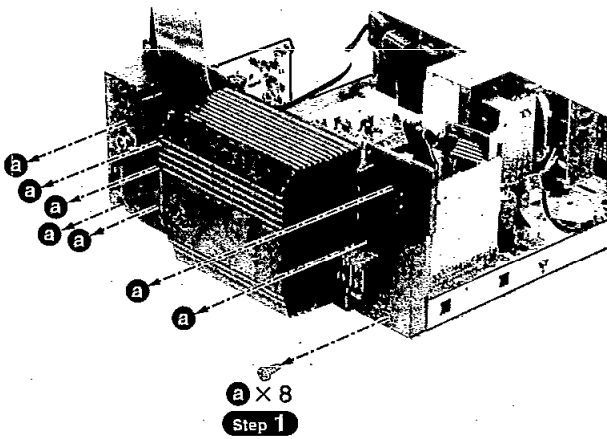
• Check the operation P.C.B. as shown below.

Operation P.C.B.

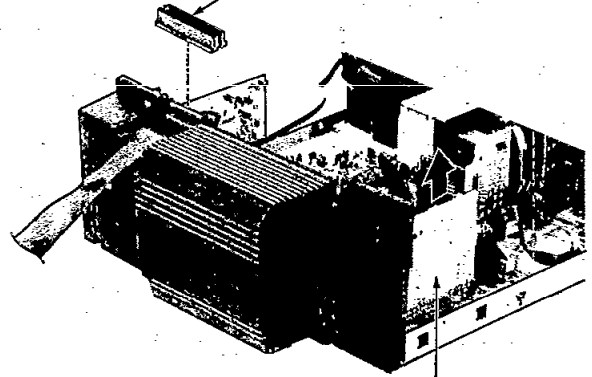


3. Checking for the main P.C.B.

• Follow the **Step 1** ~ **Step 3** of the item 1 in checking procedure for each P.C.B. on page 14.

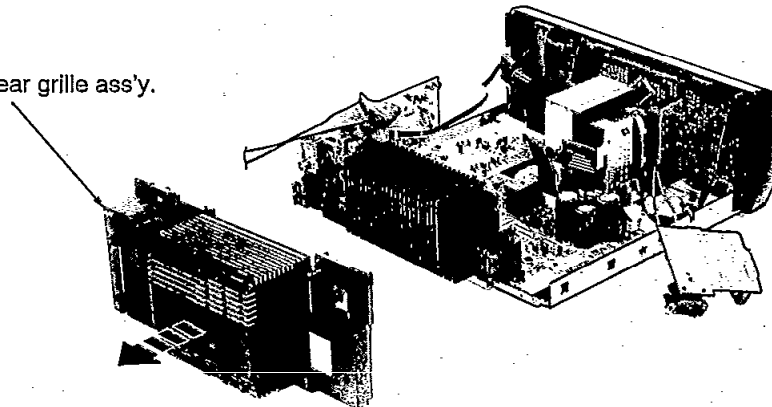


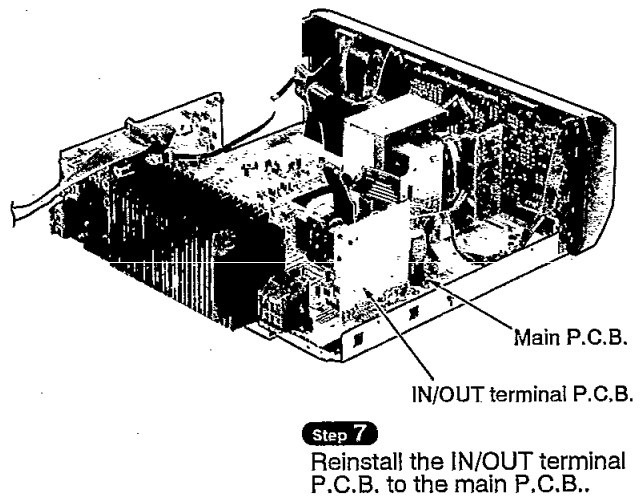
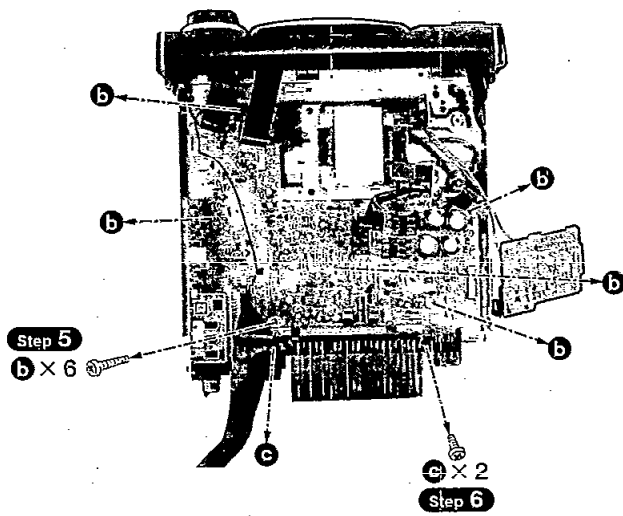
Step 2
Remove the cable holder.



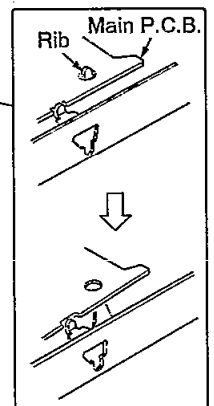
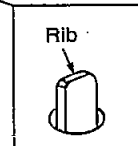
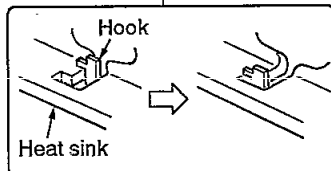
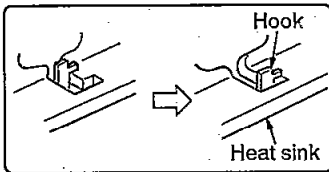
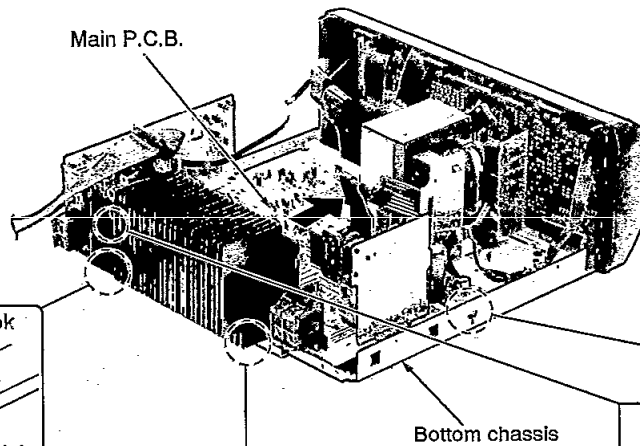
Step 3
Pull out the IN/OUT terminal P.C.B. in the direction of arrow.

Step 4
Remove the rear grille ass'y.

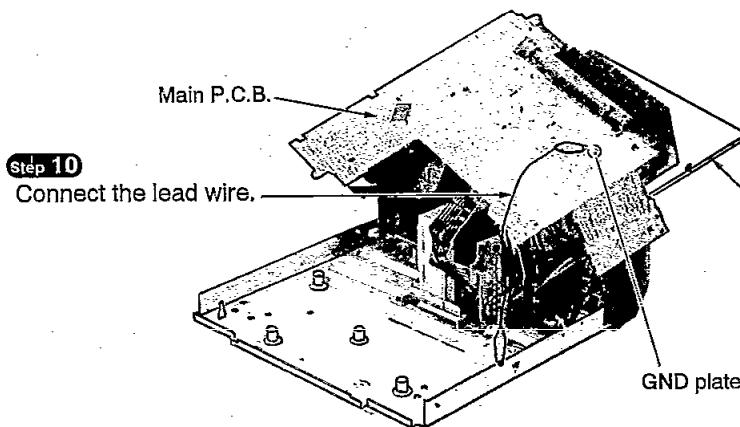




Step 9
Slide the main P.C.B. in the direction of arrow, and then release the hook of bottom chassis.



• Check the main P.C.B. as shown below.



NOTE
Insulate main P.C.B. with insulation material to avoid short-circuit.

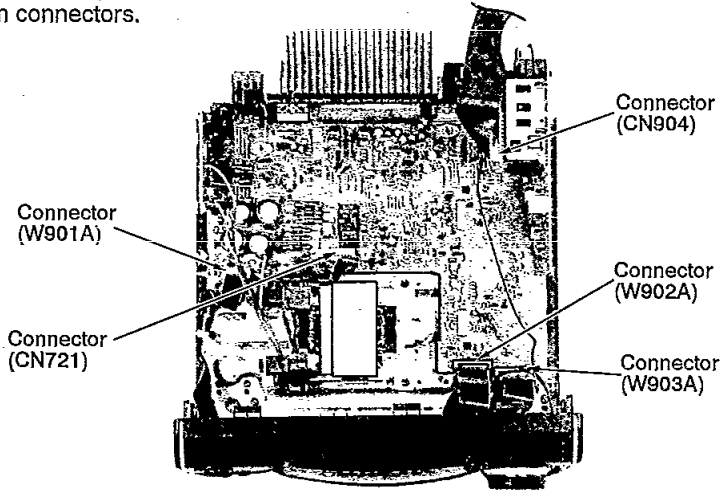
Main Component Replacement procedures

1. Replacement for the power IC and regulator transistor

- Follow the **Step 1** ~ **Step 3** of the item 1 in checking procedure for each P.C.B. on page 14.
- Follow the **Step 1** ~ **Step 9** of the item 3 in checking procedure for each P.C.B. on pages 15 and 16.

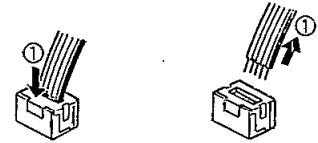
Step 1

Remove the flat cables from connectors.

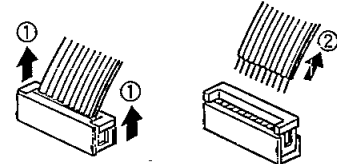


Removal of the connector

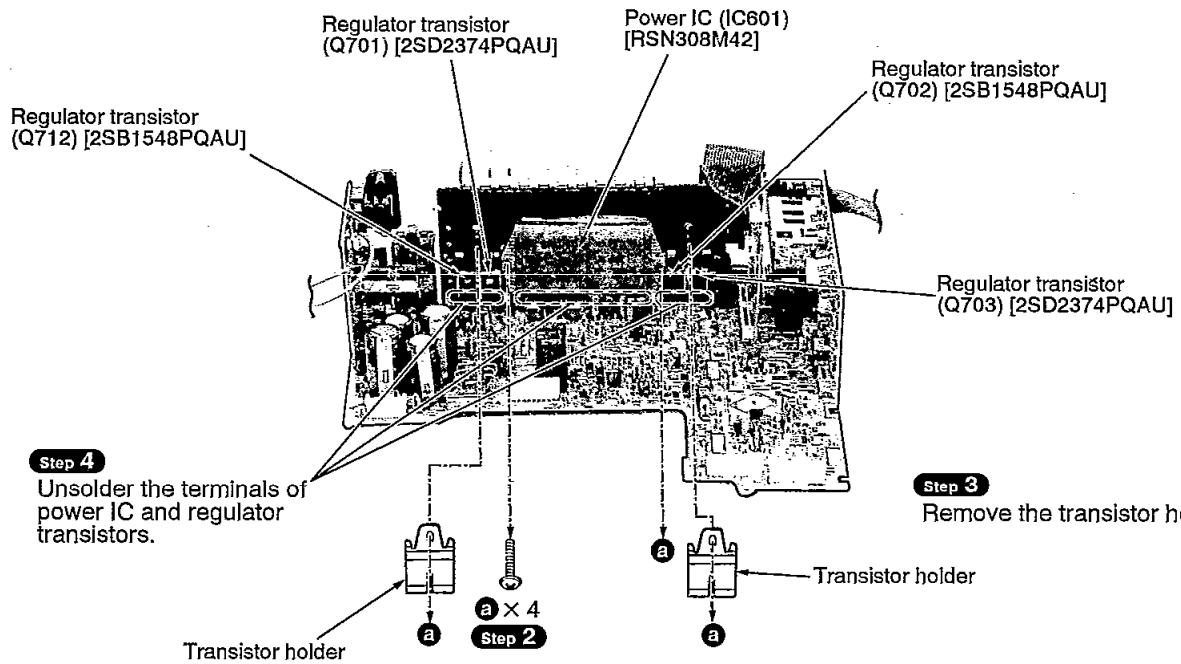
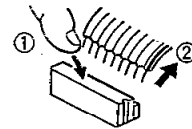
- Connector (CN904)



- Connectors (W901A, W902A, W903A)



- Connector (CN721)



Step 4

Unsolder the terminals of power IC and regulator transistors.

Step 3

Remove the transistor holder.

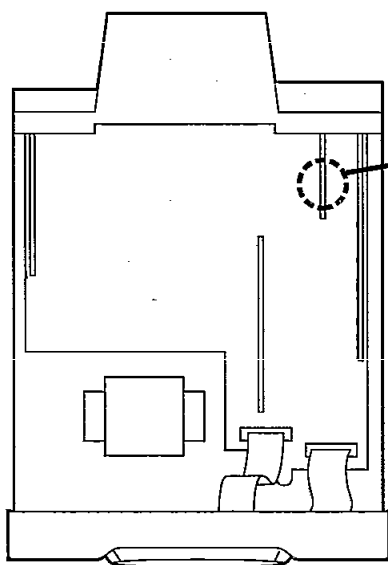
NOTE

When mounting the power IC or regulator transistor apply silicone compound (RFKX0002) to the rear side of power IC or regulator transistors.

■ To Supply Power Source

Power Supply to This Unit Alone

1. Short the section between 7 pin and 10 pin of the connector W202 in Fig. 1.
2. Connect this unit to an AC Power Cord.
(This unit come to stand-by mode.)
3. Turn the unit ON.



To check Operation

1. Set this unit to Power ON mode.
2. Input a signal and confirm it to be outputted from the speaker terminal.

| | INPUT | OUTPUT |
|----------|----------------------|---------------------------|
| L-ch | VDP(AUX) or VCR(EXT) | L-ch speaker terminal |
| R-ch | VDP(AUX) or VCR(EXT) | L-ch speaker terminal |
| Surround | VDP(AUX) or VCR(EXT) | Surround speaker terminal |
| Center | VDP(AUX) or VCR(EXT) | Center speaker terminal |

Short-circuit the section W202-7 pin and W202-10 pin.

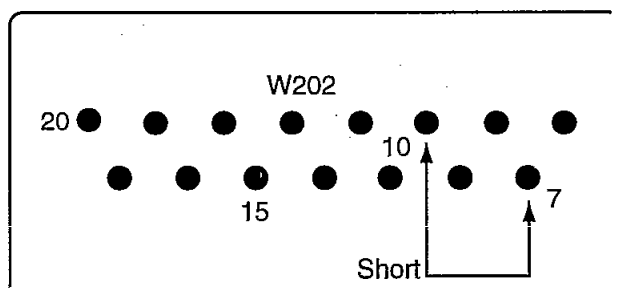
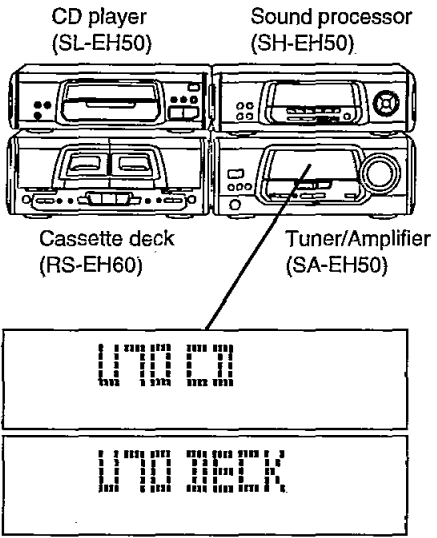


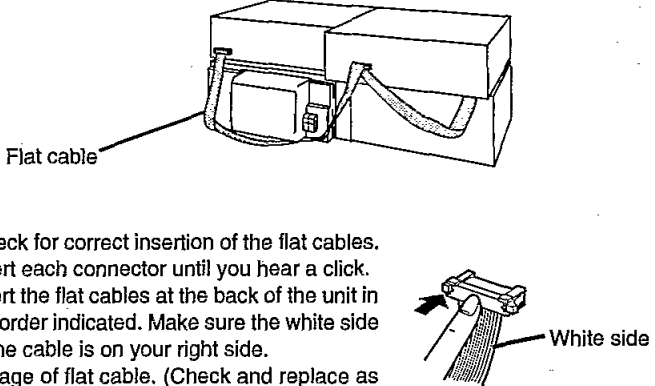
Fig. 1

■ About the Self-Diagnostic Mode

This unit is equipped with a self-diagnostic function which, in the event of a malfunction, automatically displays a code indicating the nature of the malfunction. Use this self-diagnostic function when servicing the unit.

| Display method | Display location |
|--|--|
| <p>To display the malfunction code</p> <p>U-70 CD: U-70 DECK: Automatically displays on the tuner/sound processor when a malfunction occurs. F-61 Automatically displays on the tuner/sound processor when a malfunction occurs.</p> <p>To return to the normal display</p> <p>1. For U-70 CD/U-70 DECK: <ul style="list-style-type: none"> ● Press any operation button on the tuner/amplifier. ● To re-display the code, switch the power off (POWER STANDBY button), and then switch power back on again. </p> <p>2. For F-61: <ul style="list-style-type: none"> ● If "F-61" is displayed, the power will automatically be switched off and the standby indicator will light up. ● "F-61" will be displayed for 3 seconds, and then the clock will be displayed. ● To re-display the code, switch the power on. "F-61" will be re-displayed, and then after 3 seconds the clock will be displayed and the power will automatically switch off. </p> |  |

Display contents

| Display code | Problem or condition | Correction procedure |
|--|--|---|
| <p>U-70 CD U-70 DECK (displayed automatically)</p> | <p>A bus-line communications error has occurred as a result of the flat cables being inserted incorrectly, thus preventing the system from operating.</p> <p>1. If "U-70" is displayed on the tuner/amplifier, the tape deck or CD Changer cannot be operated by remote control.</p> |  <p>1. To check for correct insertion of the flat cables. ① Insert each connector until you hear a click. ② Insert the flat cables at the back of the unit in the order indicated. Make sure the white side of the cable is on your right side.</p> <p>2. Breakage of flat cable. (Check and replace as necessary.)</p> <p>3. If the problem is not corrected by items (1.) and (2.) above, this indicates a faulty IC.</p> <p>SA-EH50: IC901 (M38199MF100K)</p> <p>SL-EH50: IC403 (LC66356B4J28)</p> <p>RS-EH60: IC701 (M37471M4660F)</p> <p>Check these IC's and replace as necessary.</p> |
| <p>F-61</p> | <p>When the power switch is switched on, it automatically switches back off, making it impossible to switch power on.</p> | <p>● Faulty Tuner/Amplifier (SA-EH50) output IC (IC601). (When a DC voltage is applied to the speaker terminals.)</p> |

■ Schematic Diagram

| | Page |
|--|---------|
| B OPERATION CIRCUIT | 21 ~ 23 |
| A TUNER CIRCUIT | 24 ~ 31 |
| E IN/OUT TERMINAL CIRCUIT | 32 |
| F MAIN CIRCUIT | 32 ~ 38 |
| G POWER SUPPLY CIRCUIT | 38 |
| H POWER TRANSFORMER (A) CIRCUIT | 38 |
| I POWER TRANSFORMER (B) CIRCUIT | 38 |

| | Page |
|--|--------|
| C MIC JACK CIRCUIT | 23 |
| D DOLBY PROLOGIC CIRCUIT | 30, 31 |
| G POWER SUPPLY CIRCUIT | 39 |
| H POWER TRANSFORMER (A) CIRCUIT | 39 |
| I POWER TRANSFORMER (B) CIRCUIT | 39 |
| For (EG) and (EP) areas | |
| J RDS CIRCUIT | 40 |

- This schematic diagram may be modified at any time with the development of new technology.

Notes:

- **S901** : Power "STANDBY ϕ /ON" switch (POWER STANDBY ϕ /ON)
- **S902** : Clock/timer switch (CLOCK/TIMER)
- **S903** : Record timer switch (\ominus REC)
- **S904** : Play timer switch (\oplus PLAY)
- **S905** : Tuning mode select switch (TUNING MODE)
- **S906** : Set switch (SET)
- **S907** : FM mode select switch (FM AUTO/MONO)
- **S908** : Source input select switch (INPUT SELECTOR)
- **S909** : Tuning down switch (TUNING \vee)
- **S910** : Tuning up switch (TUNING \wedge)
- **S911** : Tuner/band select switch (TUNER/BAND)
- **S912** : V.bass switch (V.BASS)
- **VR901** : Volume control (VOLUME)

For (EG) and (EP) areas

- **S913** : RDS display mode select switch (PS)
- **S914** : RDS display mode select switch (PTY)

For (GC) area

- **S701** : Voltage adjust switch
- **S913** : Karaoke switch (KARAOKE)
- **S914** : Echo switch (ECHO)
- **VR401** : Microphone volume control (MIC VOL)

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
No mark: FM (): AM

• Important safety notice:

Components identified by \triangle mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

• Caution!

IC and LSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.


Cover the parts boxes made of plastics with aluminum foil.

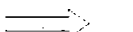
Ground the soldering iron.

Put a conductive mat on the work table.

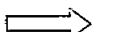
Do not touch the legs of IC or LSI with the fingers directly.

• Voltage and signal line

 : Positive voltage line


 : AM signal Line


 : AM OSC signal line

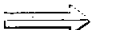
 : FM signal line

 : FM OSC signal line

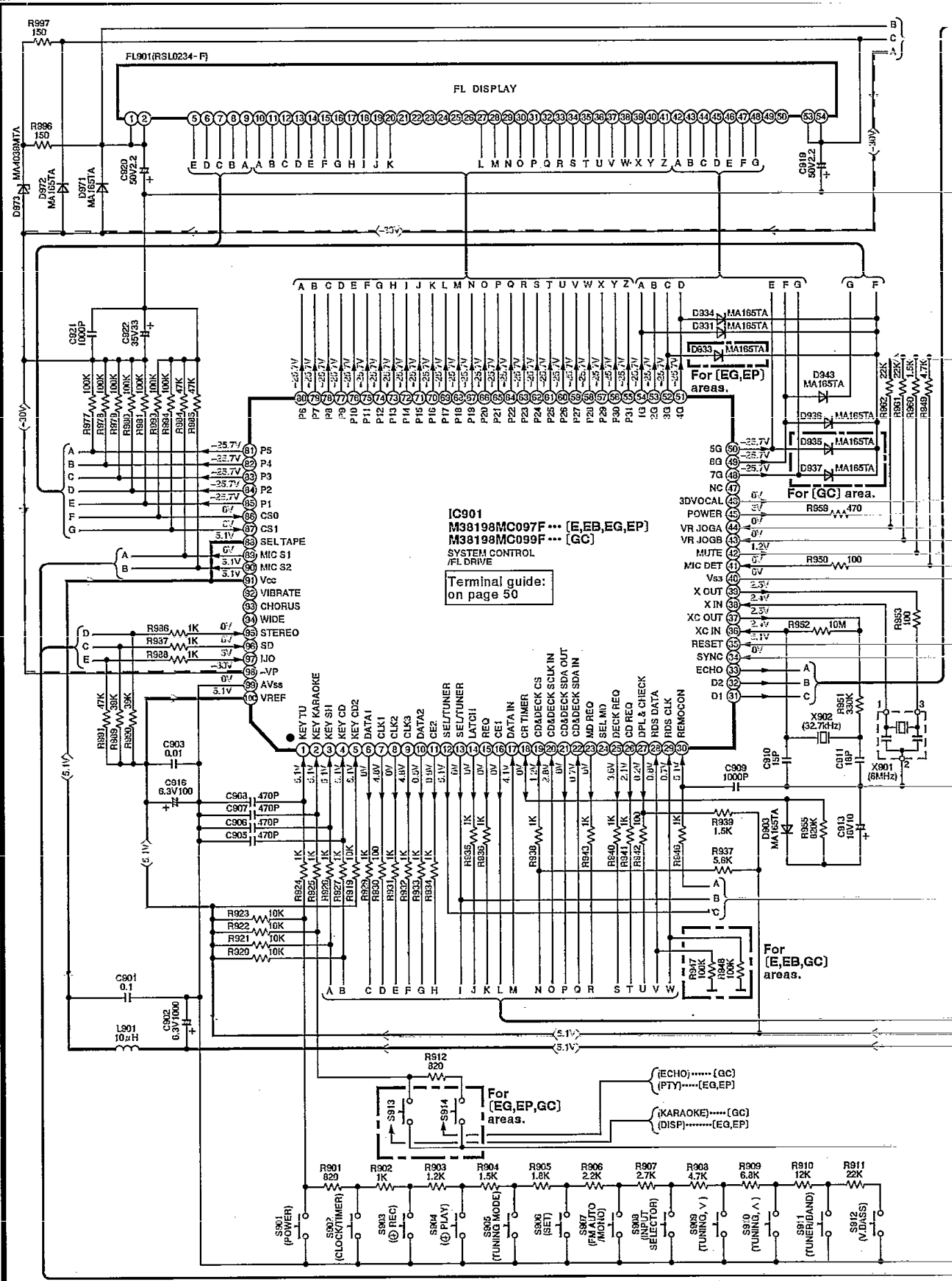
 : Negative voltage line

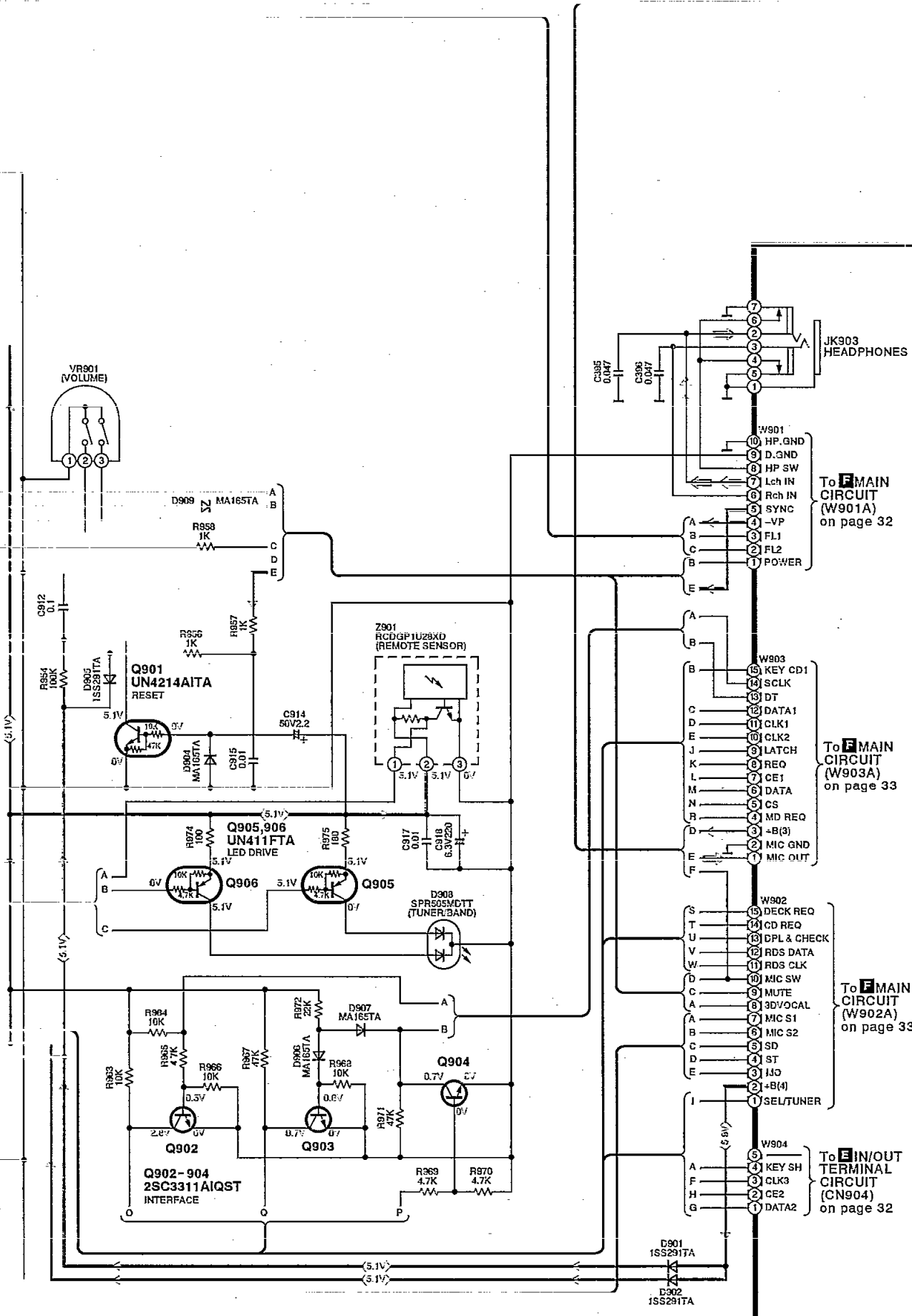
 : Mic signal Line

 : Surround Speaker Drive signal line

 : Center Speaker Drive signal line

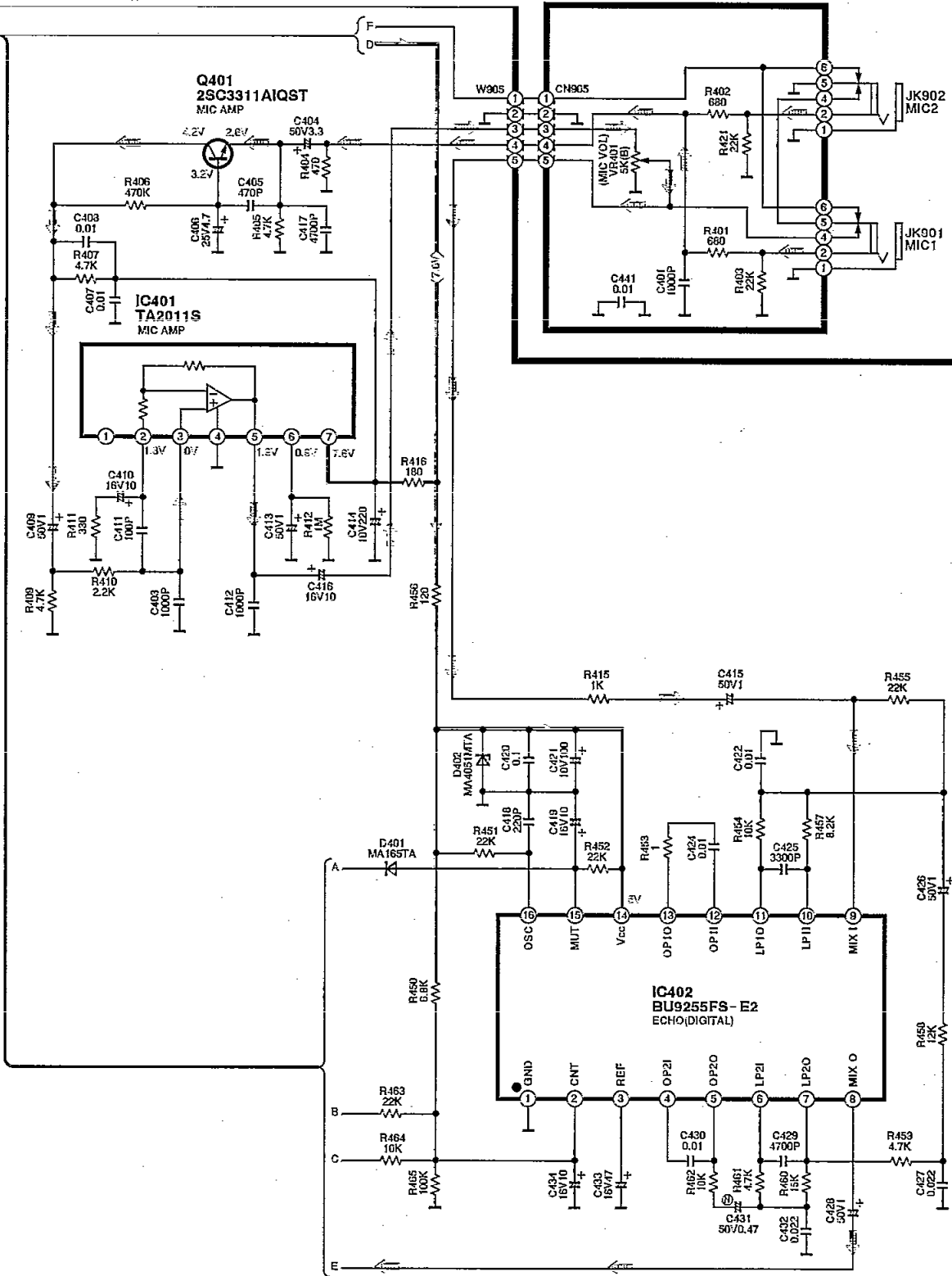
B OPERATION CIRCUIT (P.C.Board: on page 43)



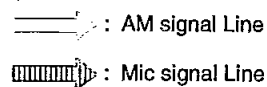
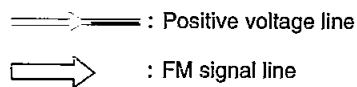


B OPERATION CIRCUIT (P.C.Board: on page 43)

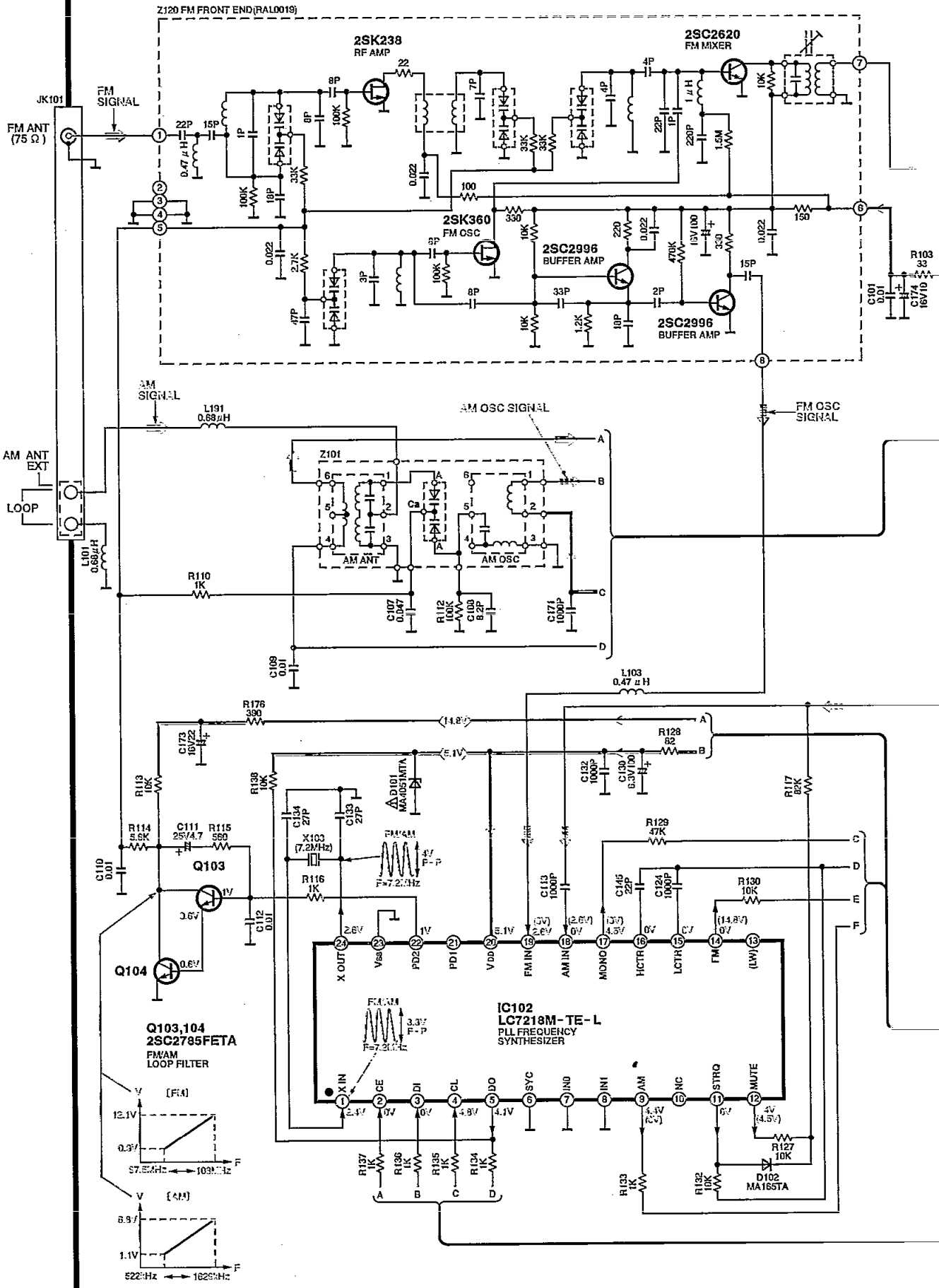
C MIC JACK CIRCUIT (P.C.Board: on page 44)



For [GC] area.



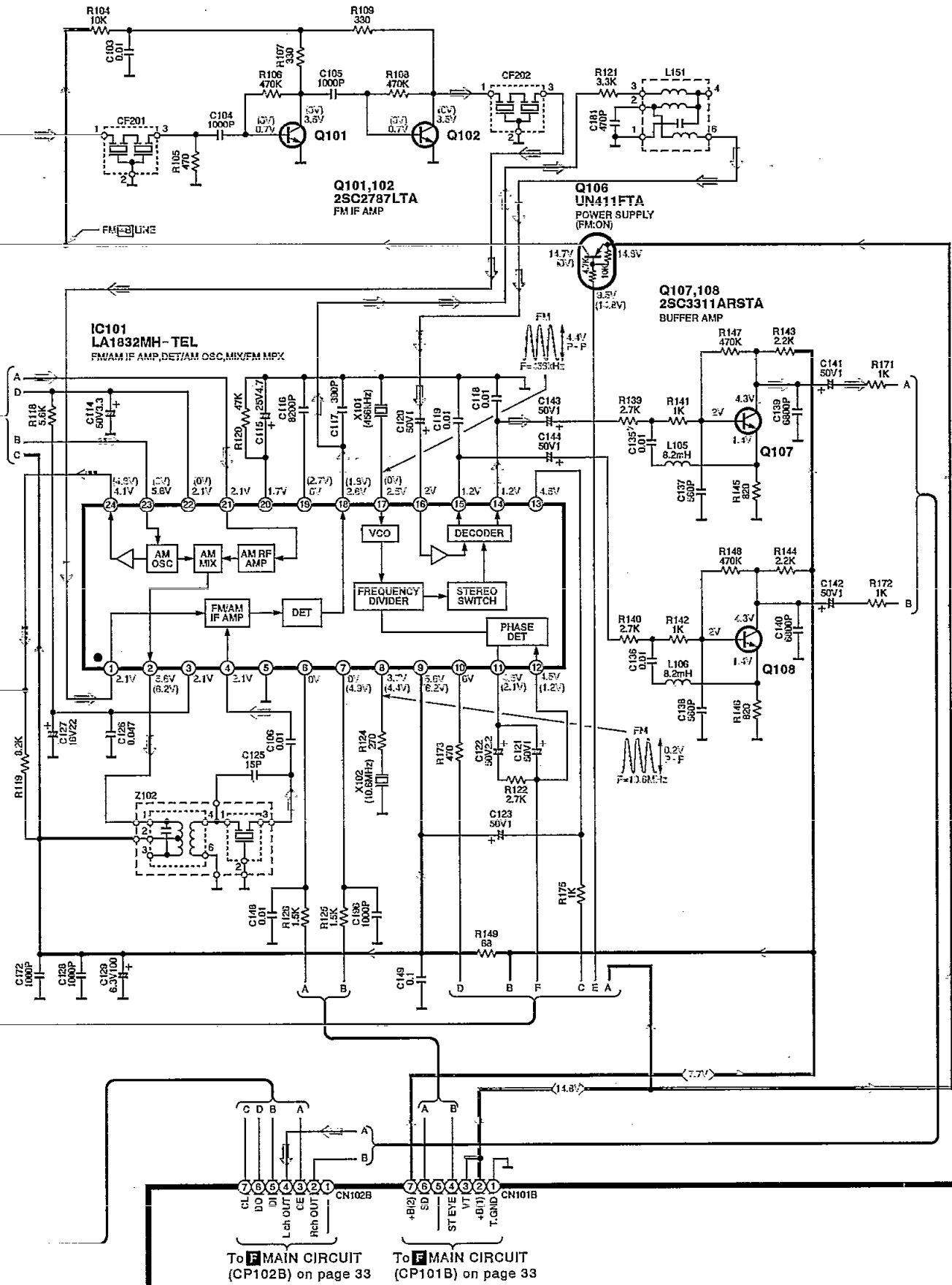
A TUNER CIRCUIT For [E,EB] areas. (P.C.Board on page 42)



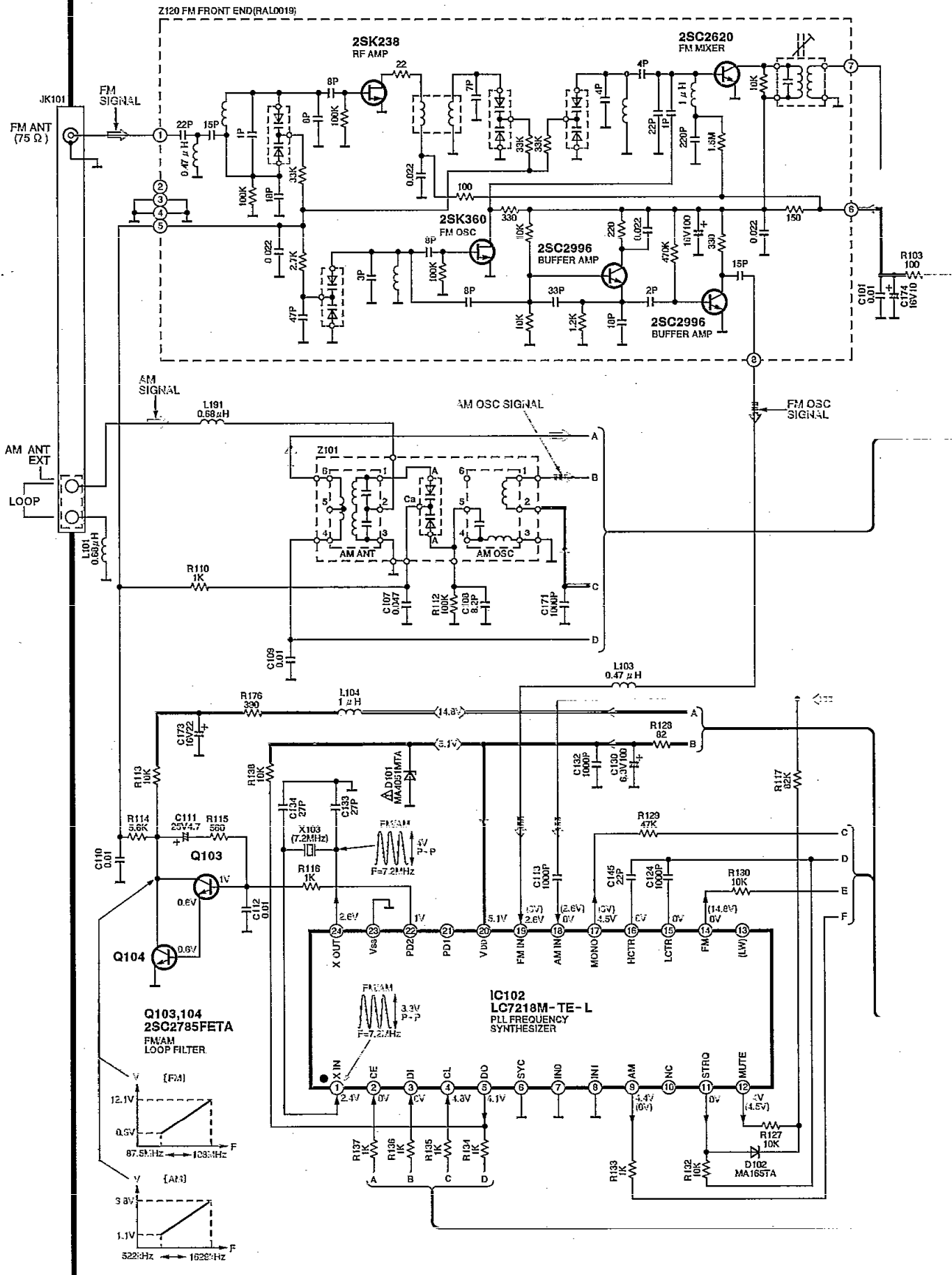
→ : Positive voltage line
 → : AM OSC signal line

→ : AM signal Line
 □□□ : FM OSC signal line

→ : FM signal line



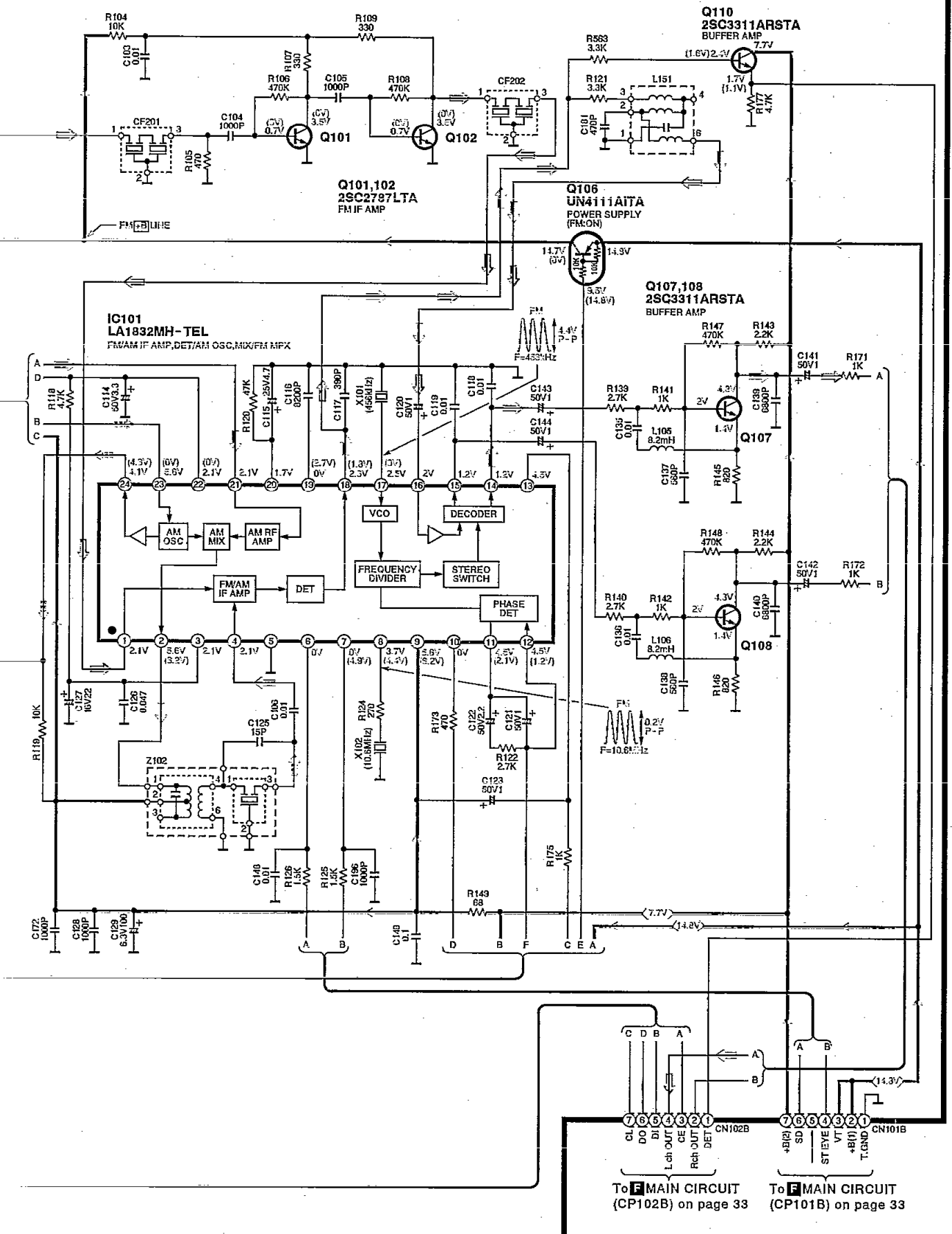
A TUNER CIRCUIT For [EG,EP] areas. (P.C.Board: on page 42)



— : Positive voltage line
 □□□ : AM OSC signal line

— : AM signal Line
 □□□ : FM OSC signal line

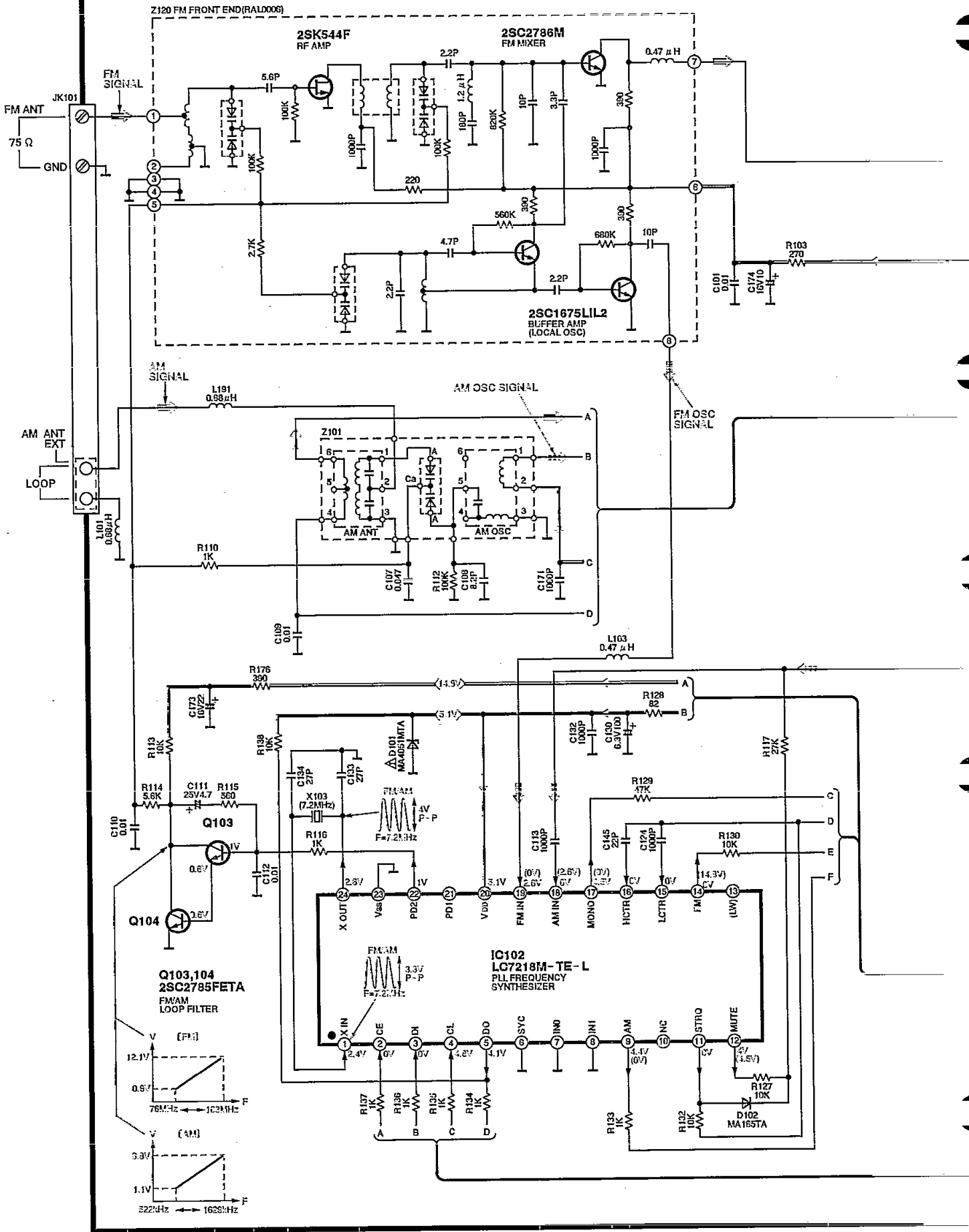
— : FM signal line

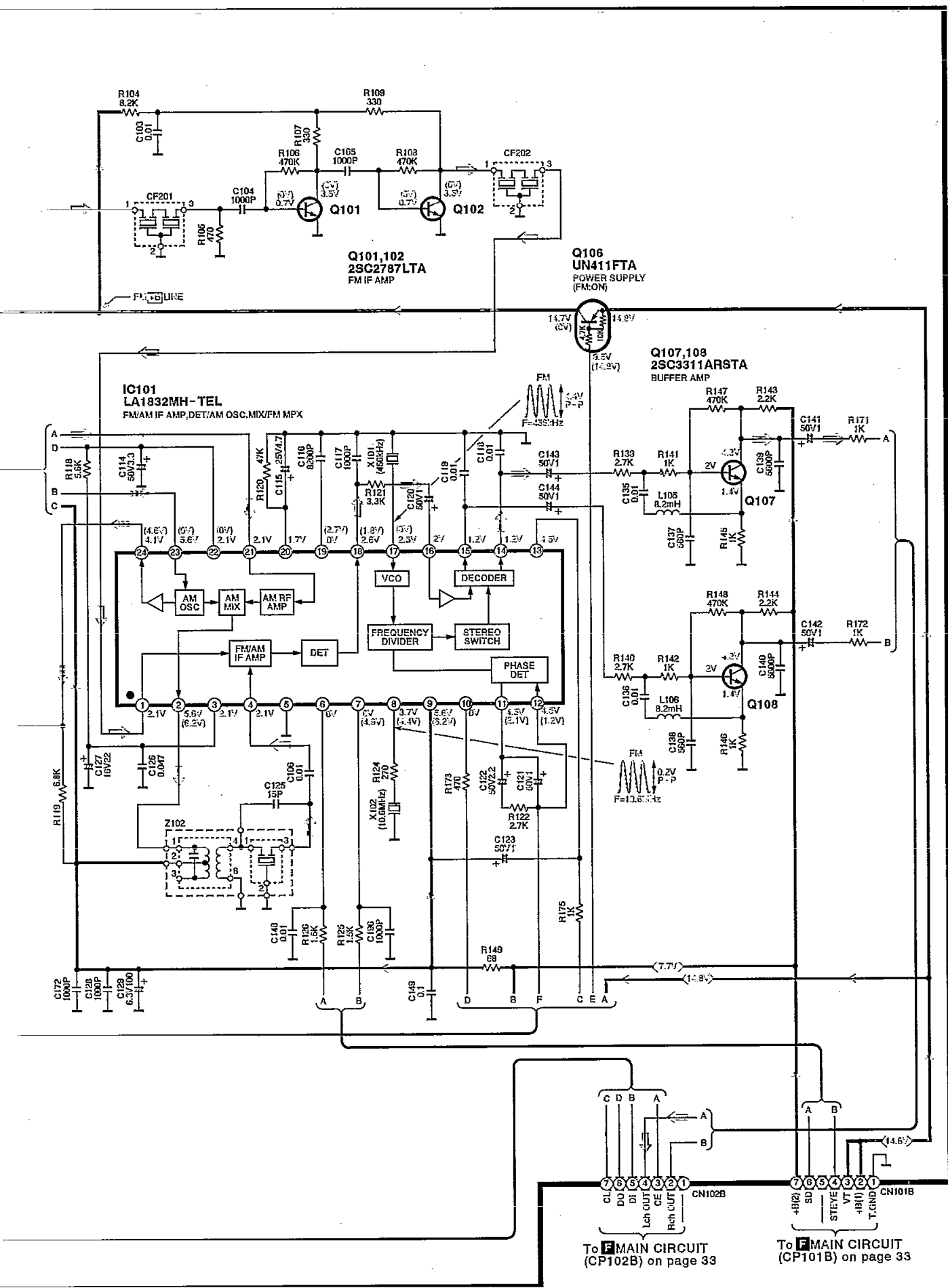
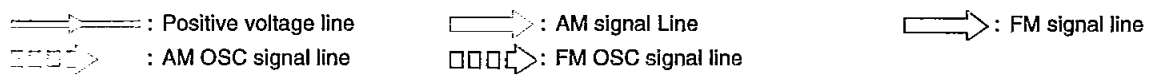


To MAIN CIRCUIT (CP102B) on page 33

To MAIN CIRCUIT (CP101B) on page 33

A TUNER CIRCUIT For [GC] area. (P.C.Board: on page 43)

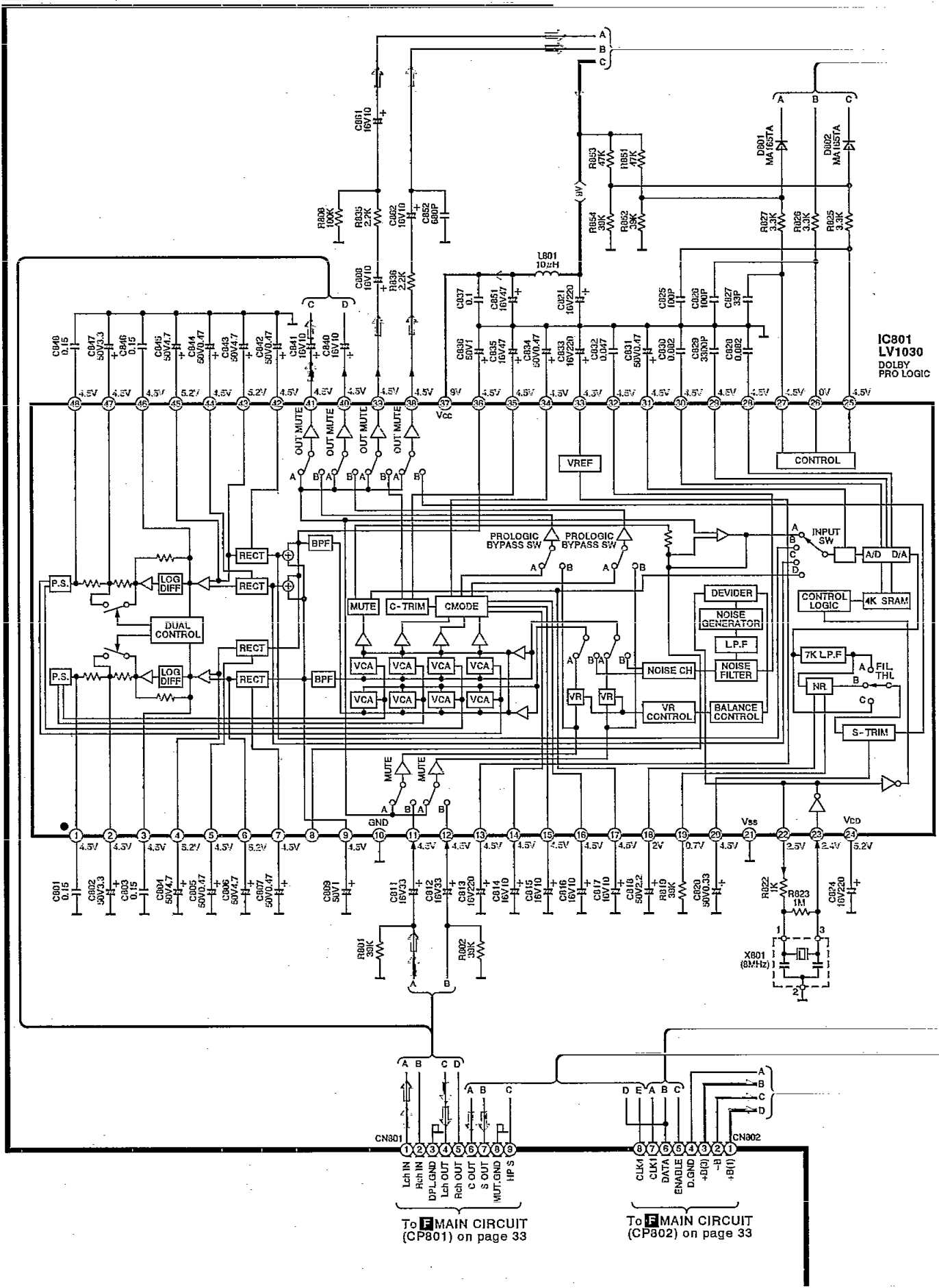




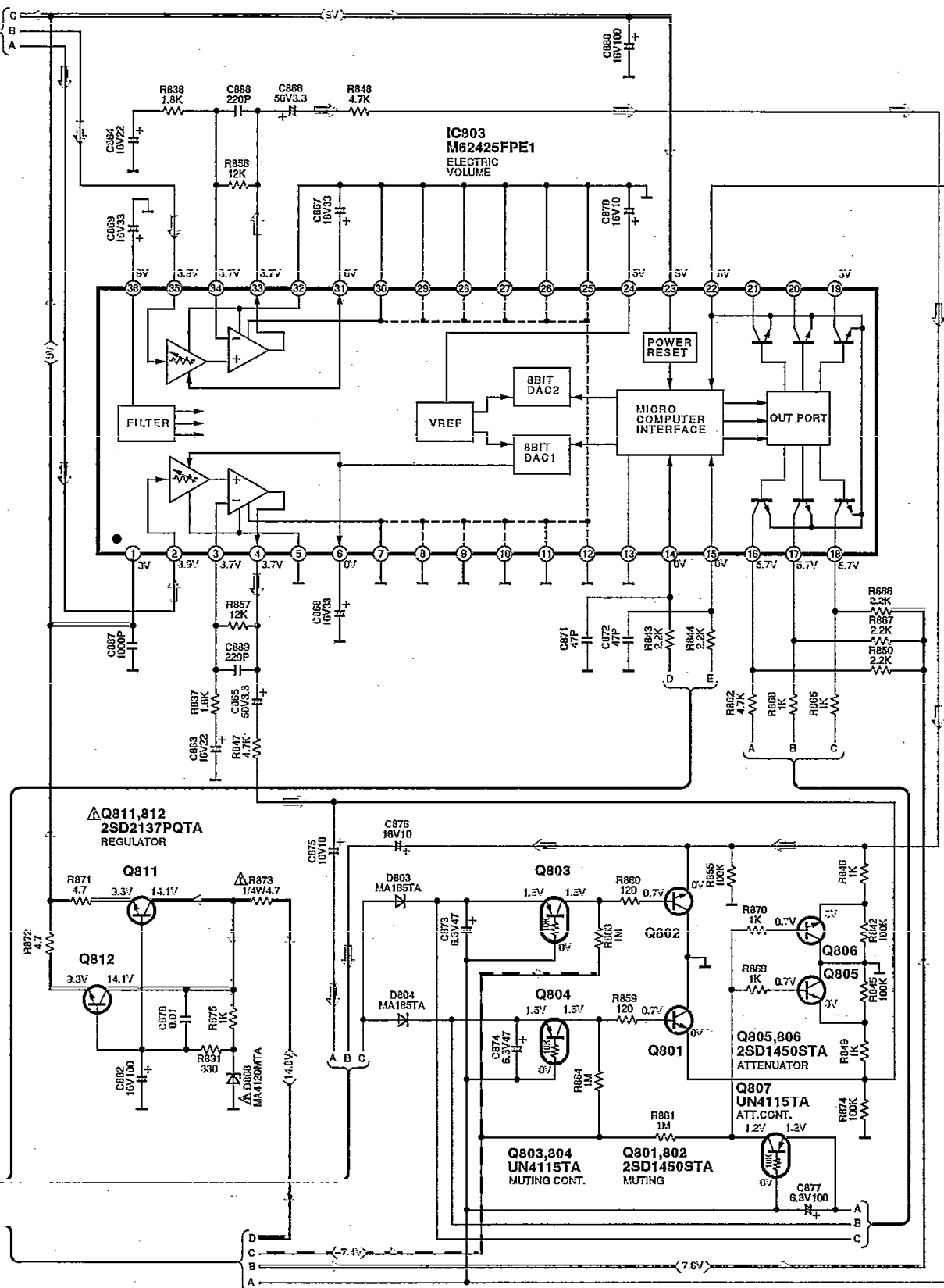
To MAIN CIRCUIT (CP102B) on page 33

To MAIN CIRCUIT (CP101B) on page 33

D DOLBY PROLOGIC CIRCUIT For[GC]area. (P.C.Board: on page 44)



- : Positive voltage line
- : Negative voltage line
- : AM signal Line
- : FM signal line
- : FM OSC signal line
- : Surround Speaker Drive signal line
- : Center Speaker Drive signal line

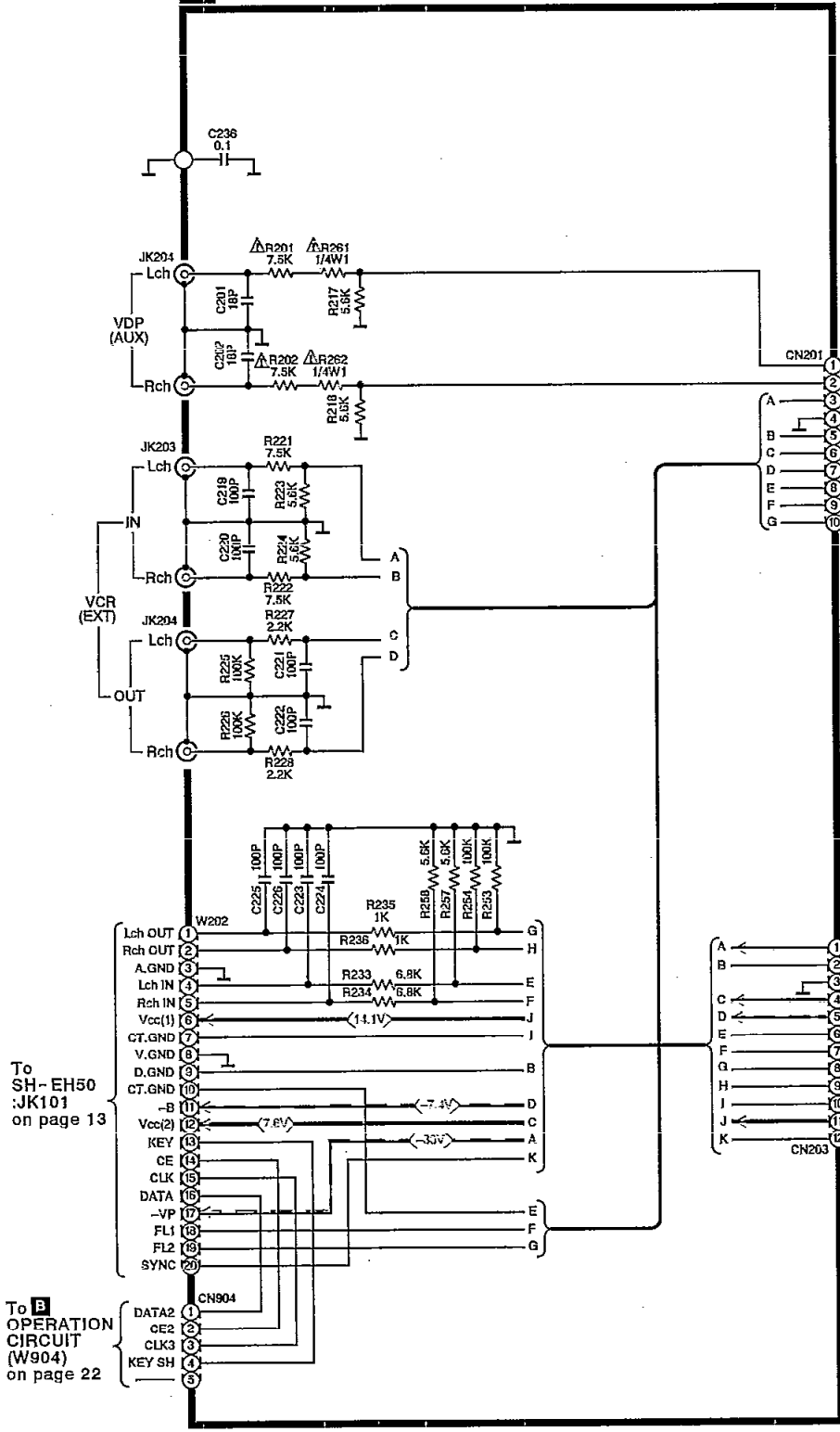


→ : Positive voltage line
 → : AM signal Line

--- : Negative voltage line
 → : FM signal line

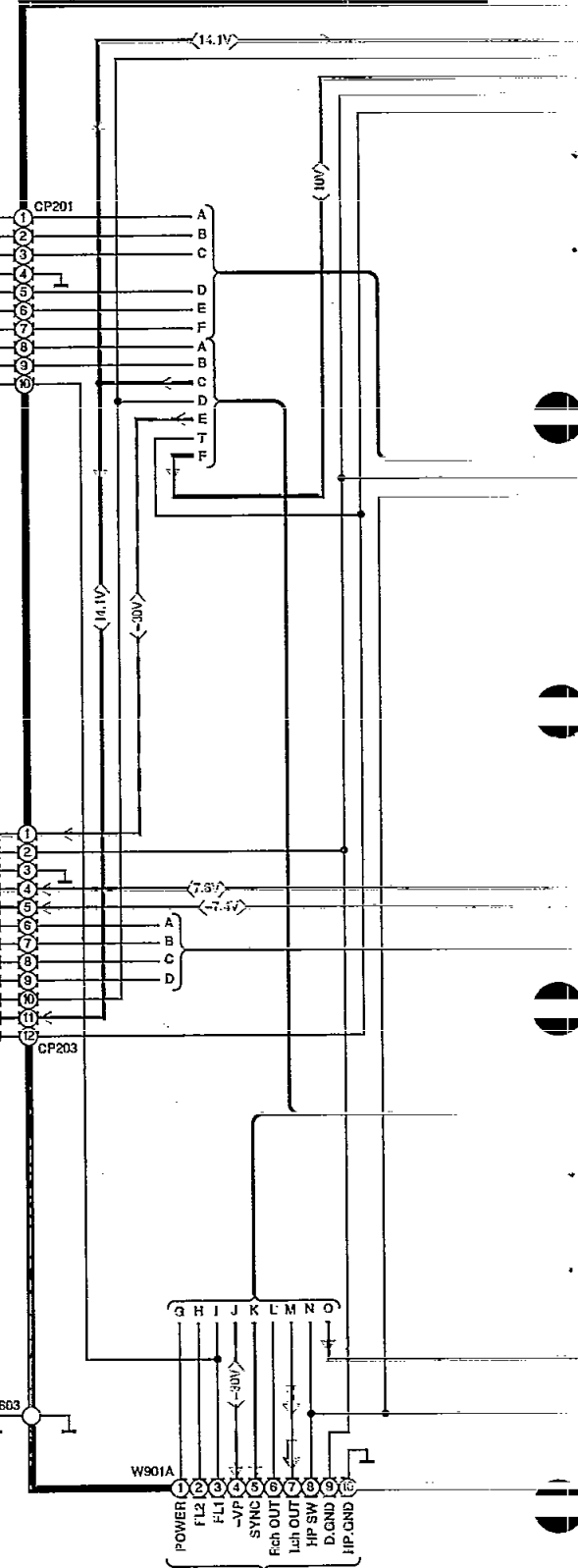
E IN/OUT TERMINAL CIRCUIT (P.C.Board: on page 44)

F MAIN CIRCUIT
 For [E, EB, EG, EP] areas.
 (P.C.Board: on pages 44 and 45)
 For [GC] area.
 (P.C.Board: on pages 46 and 47)



To SH-EH50
 :JK101
 on page 13

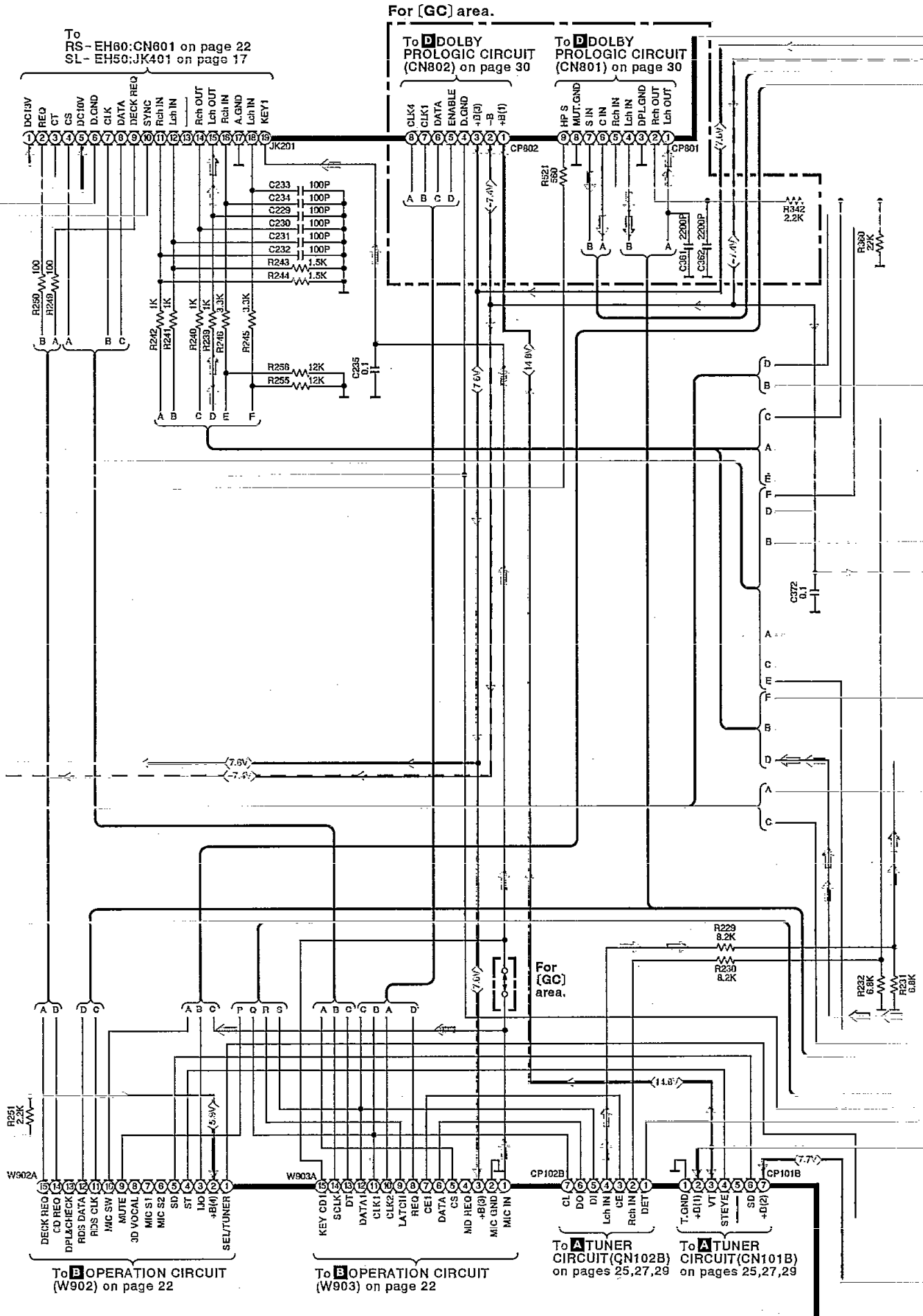
To **B**
 OPERATION
 CIRCUIT
 (W904)
 on page 22



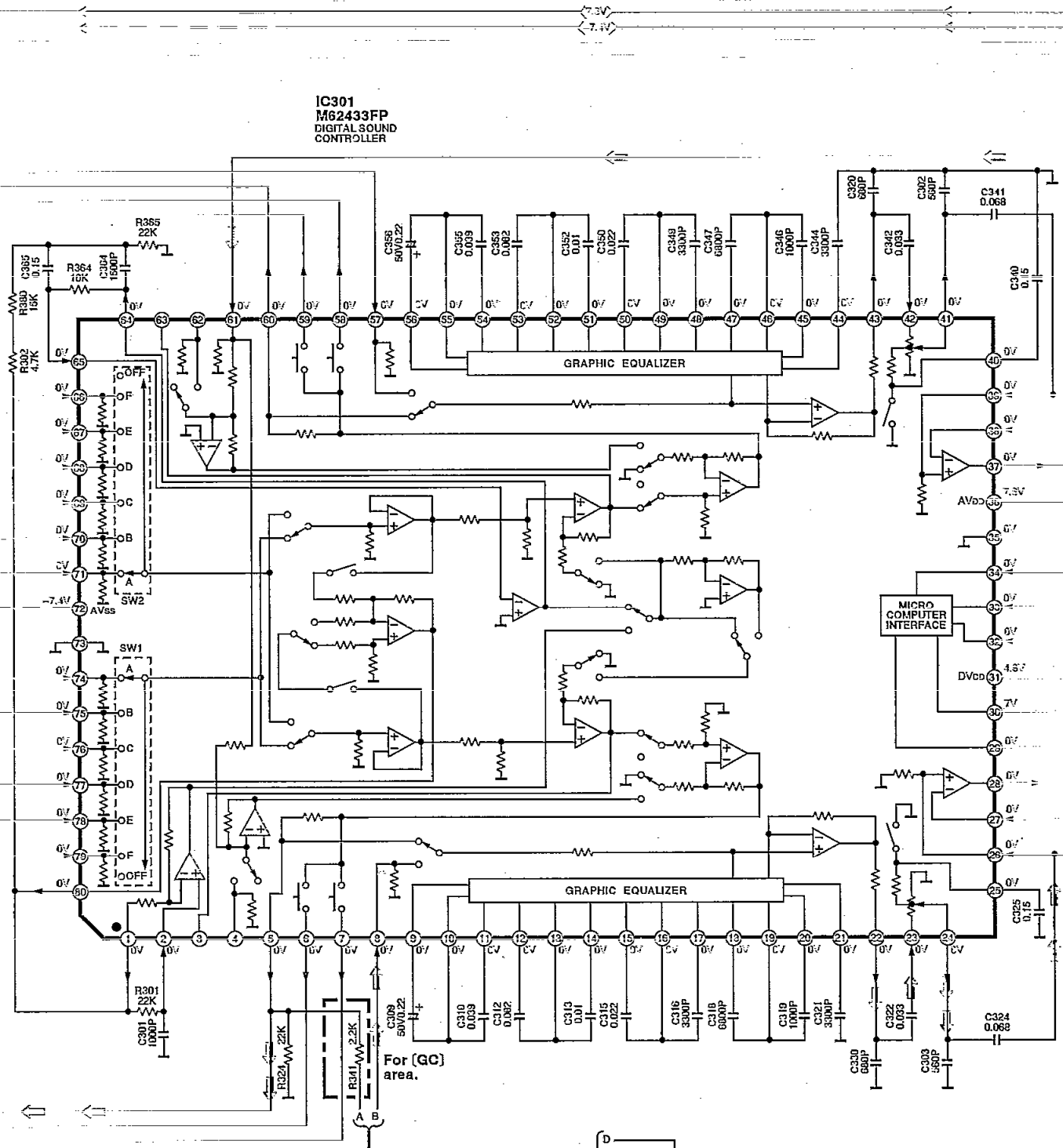
To **E** OPERATION
 CIRCUIT (W901)
 on page 22

Surround Speaker Drive signal line
Mic signal Line

Center Speaker Drive signal line



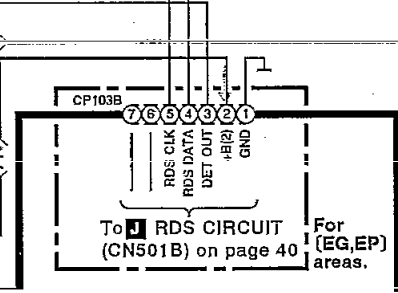
F MAIN CIRCUIT For [E,EB,EG,EP] areas. (P.C.Board: on pages 44 and 45)
 For [GC] area. (P.C.Board: on pages 46 and 47)



Q724 UN4211AITA
POWER SUPPLY CONT.



Q723 2SC3940AQSTA
REGULATOR



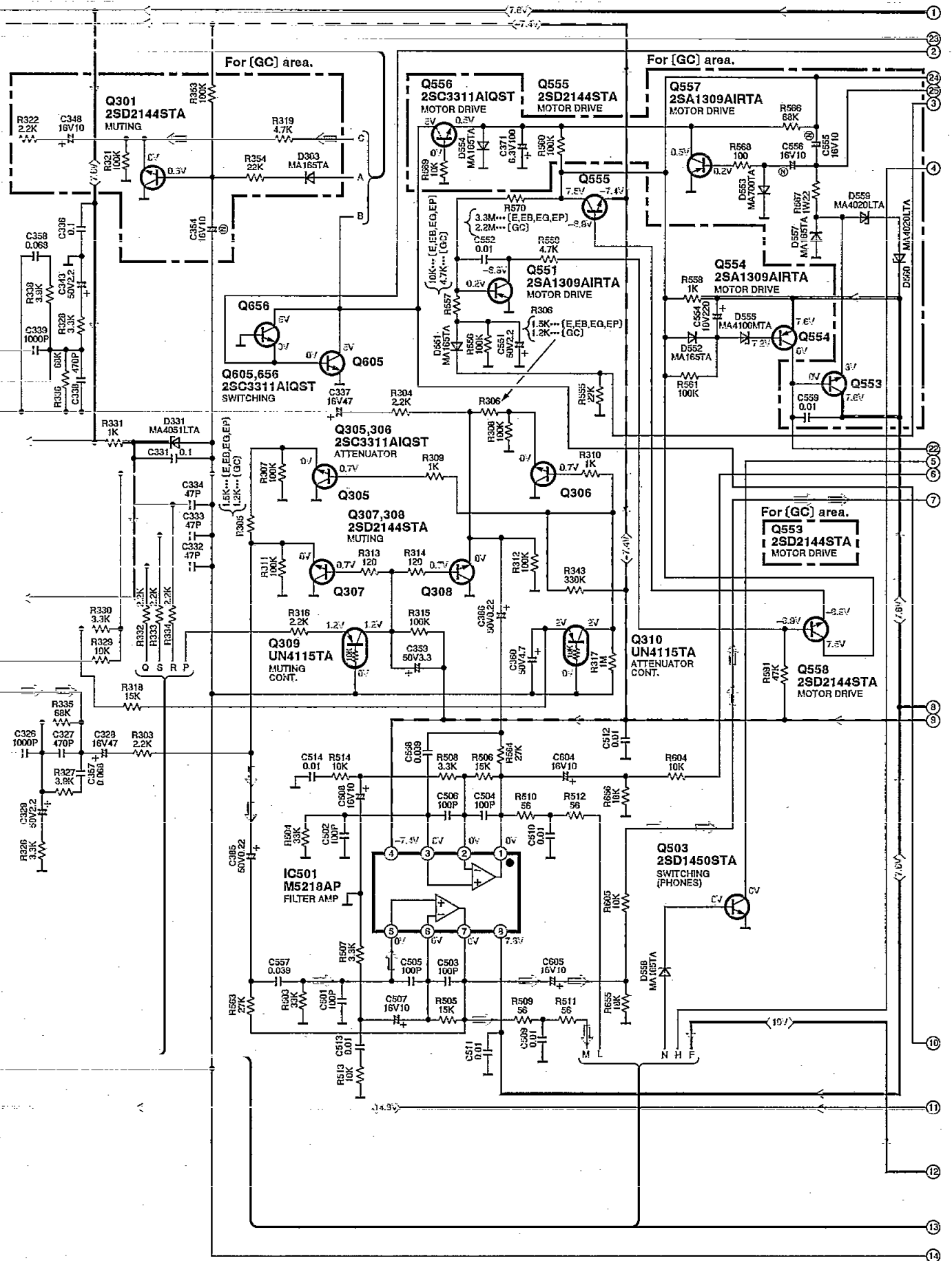
————— : Positive voltage line

- - - - - : Negative voltage line

⇨ : AM signal Line

⇨ : FM signal line

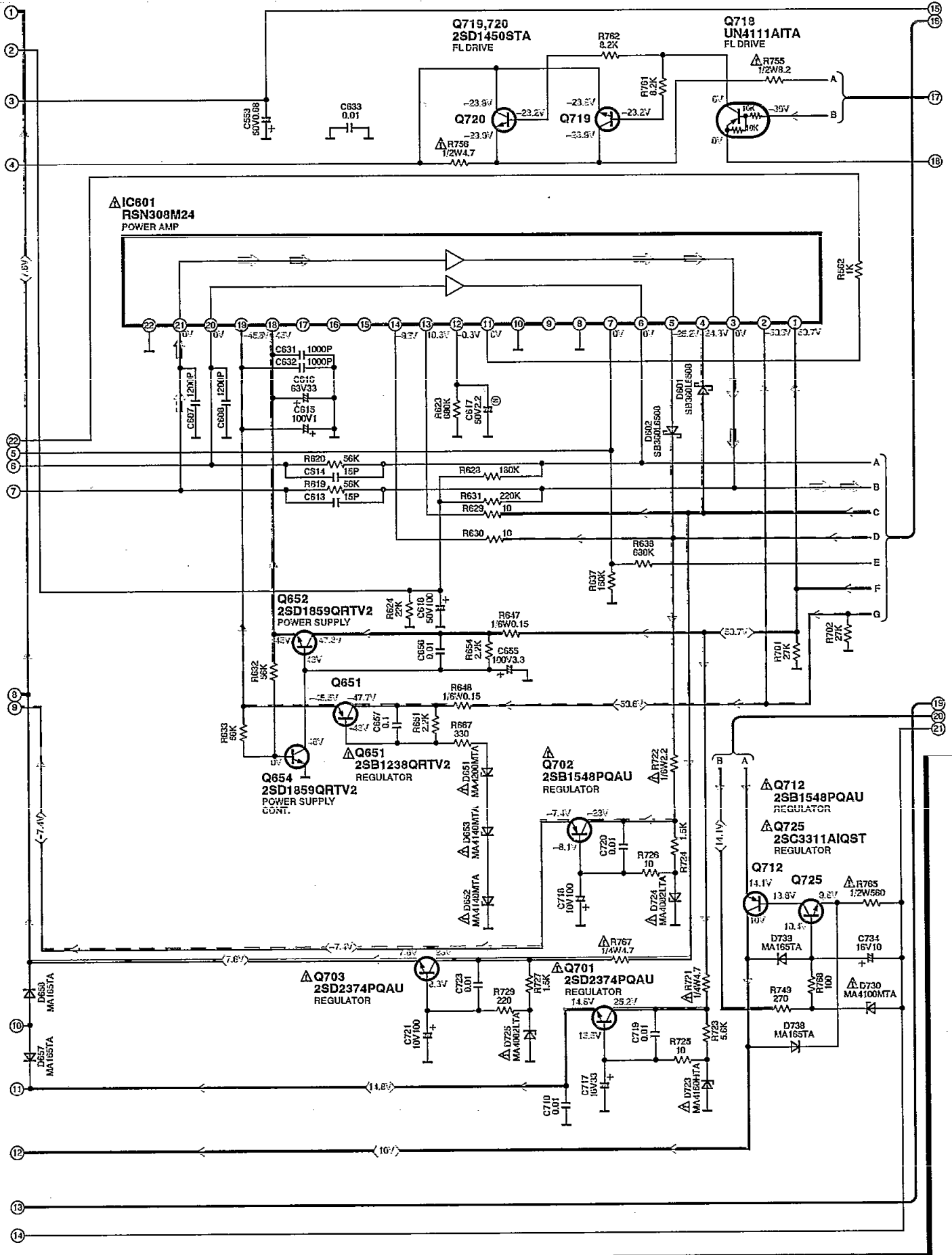
▮▮▮▮▮ : Mic signal Line



— : Positive voltage line
 — : AM signal Line

- - - : Negative voltage line
 — : FM signal line

F MAIN CIRCUIT For (E,EB,EG,EP) areas. (P.C.Board on pages 44 and 45)





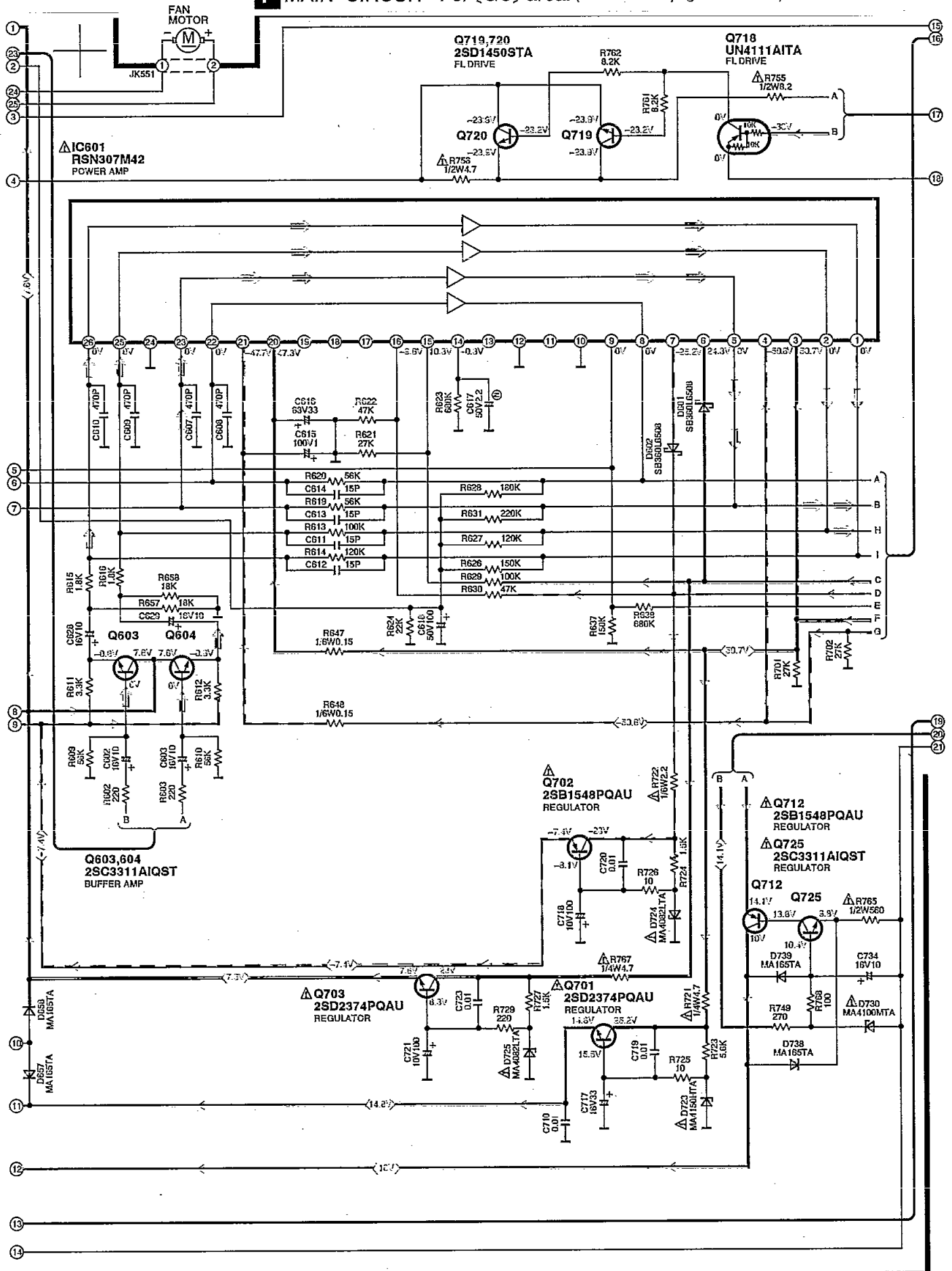
: Surround Speaker Drive signal line



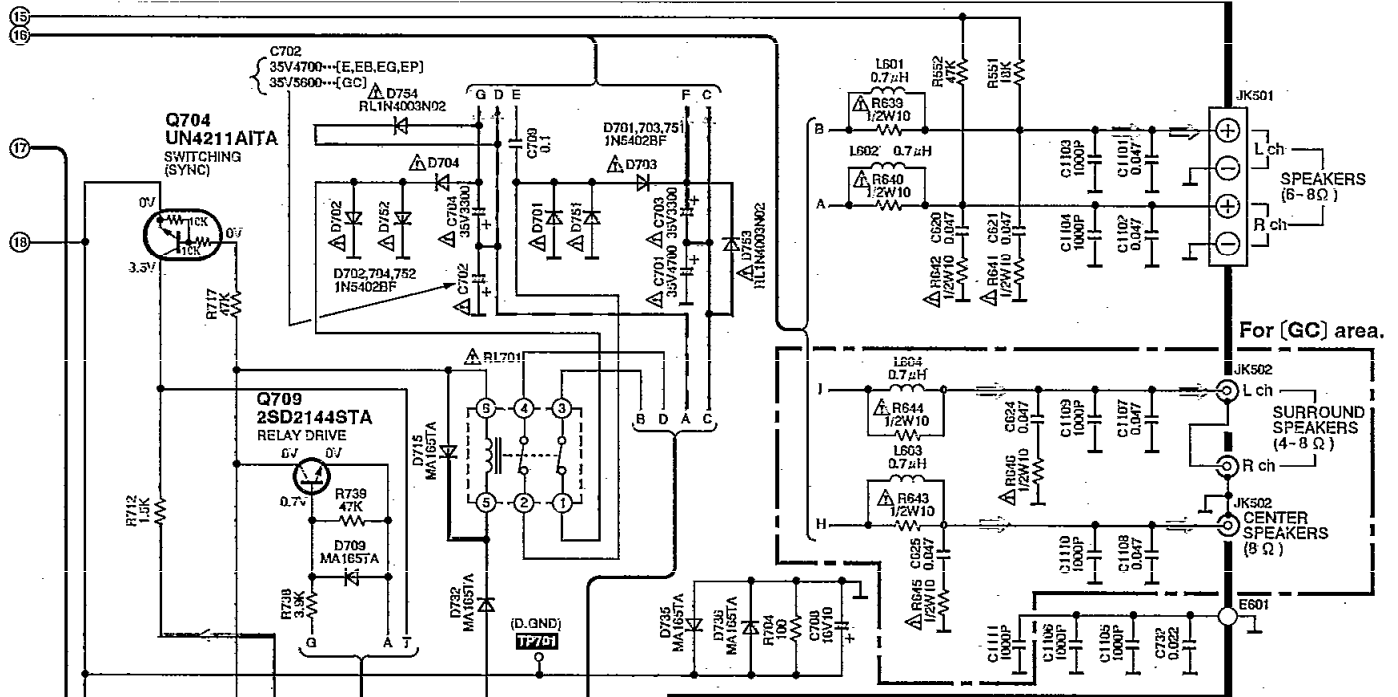
: Center Speaker Drive signal line

: Mic signal Line

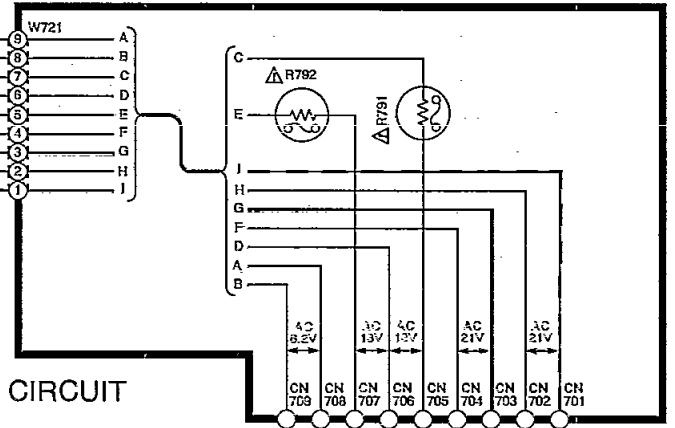
F MAIN CIRCUIT For [GC] area. (P.C.Board: on pages 46 and 47)



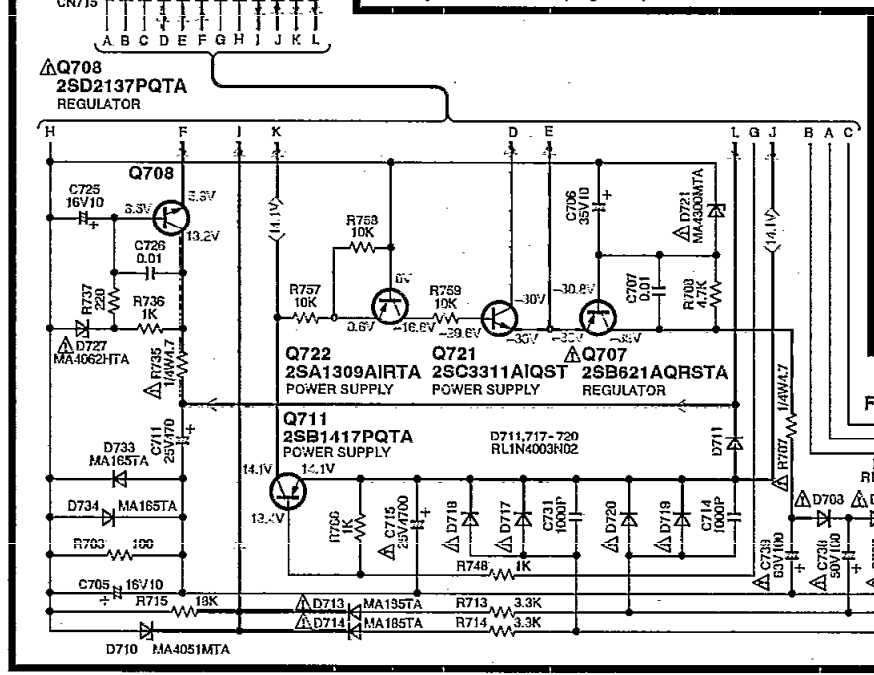
F MAIN CIRCUIT For [E,EB,EG,EP] areas. (P.C.Board: on pages 44 and 45)
 For [GC] area. (P.C.Board: on pages 46 and 47)



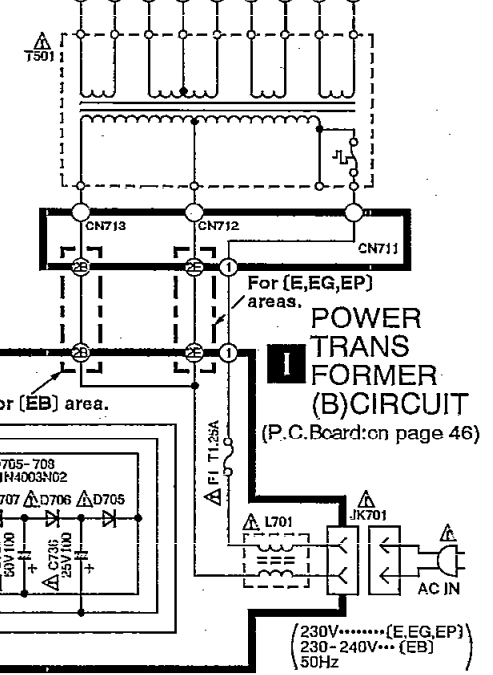
H POWER TRANSFORMER(A) CIRCUIT
 (P.C.Board: on page 46)



G POWER SUPPLY CIRCUIT
 (P.C.Board: on page 46)

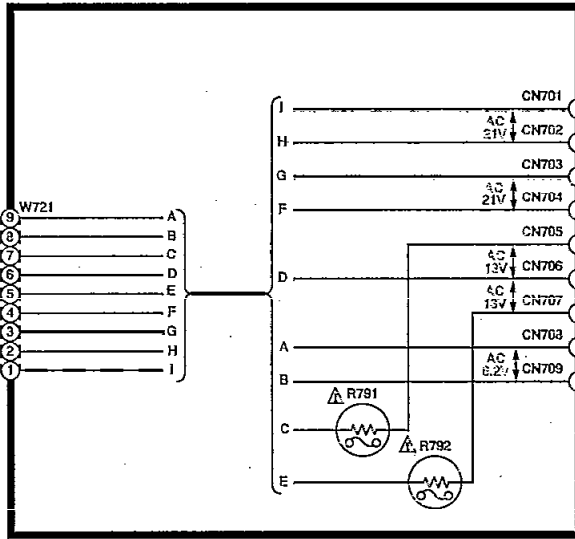


I POWER TRANSFORMER (B) CIRCUIT
 (P.C.Board: on page 46)

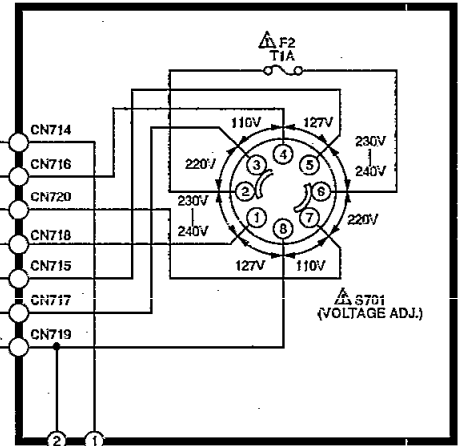


POWER SOURCE CIRCUIT For [GC] area.

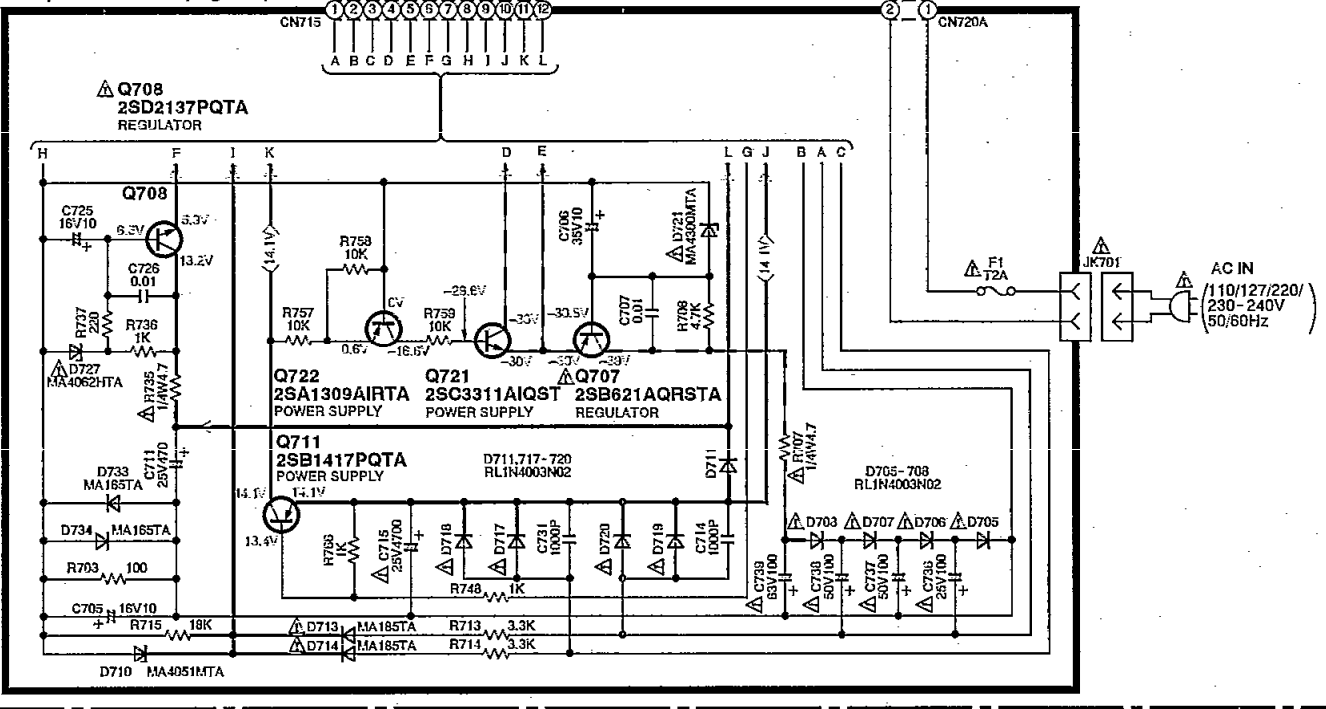
H POWER TRANSFORMER(A) CIRCUIT
(P.C.Board: on page 48)



I POWER TRANSFORMER(B) CIRCUIT
(P.C.Board: on page 48)

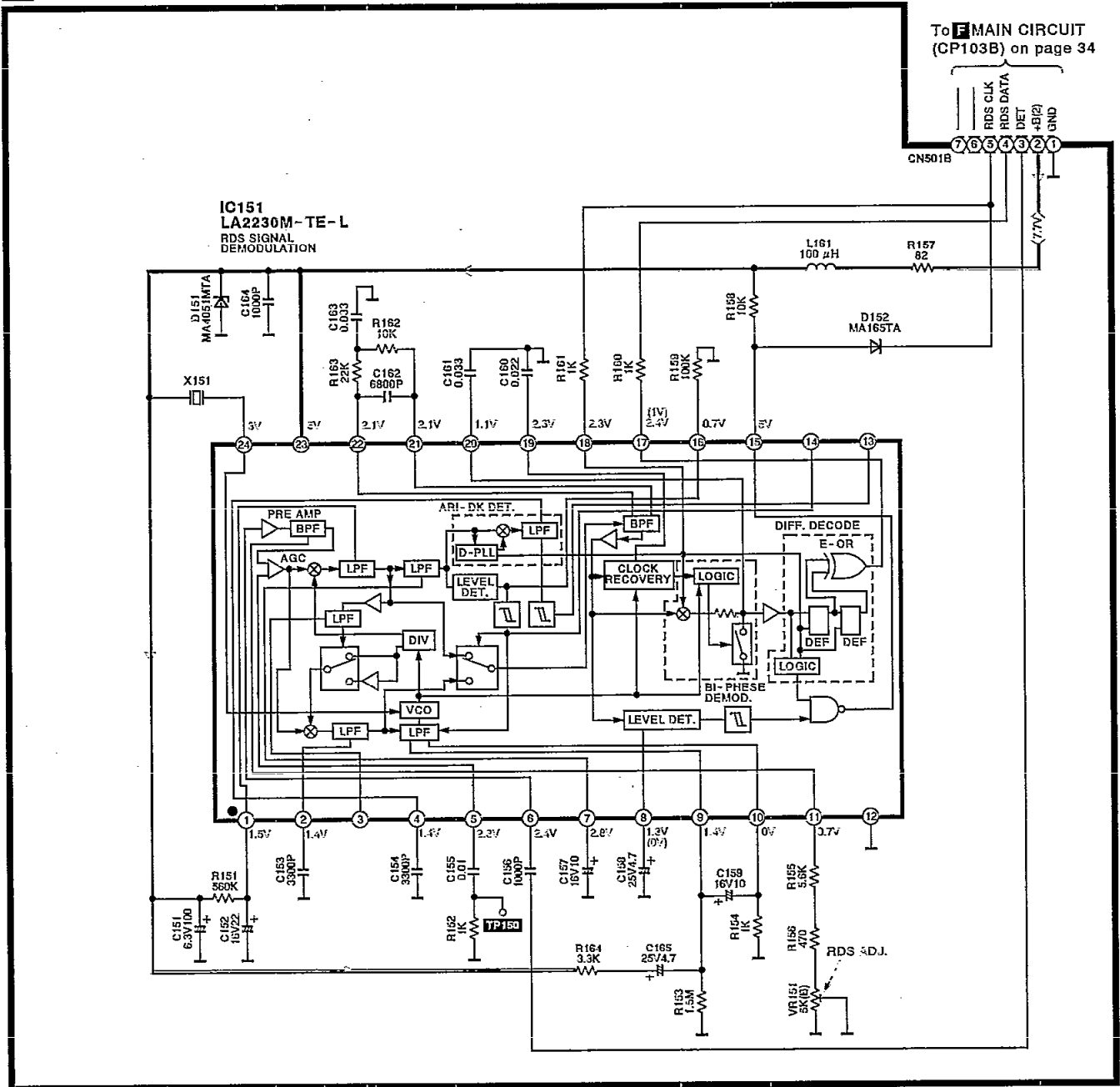


G POWER SUPPLY CIRCUIT
(P.C.Board: on page 48)

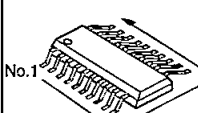
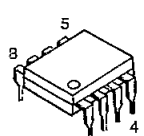
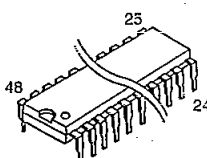
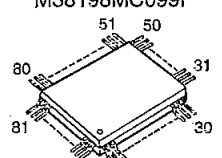
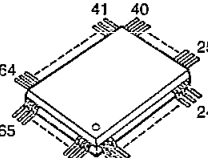
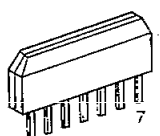
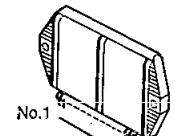
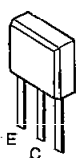
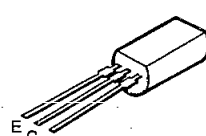
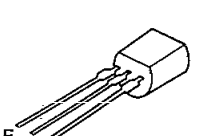
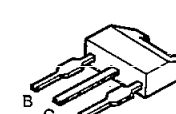
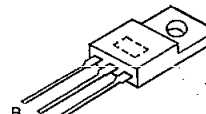
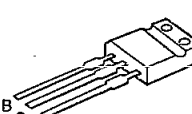
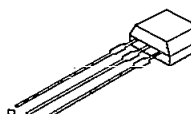
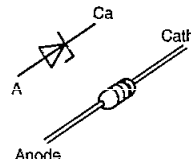
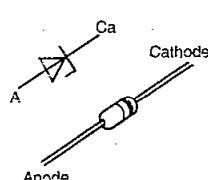
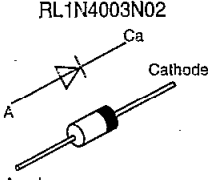
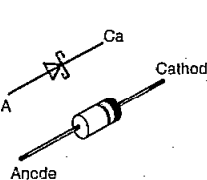
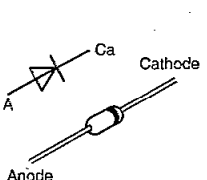
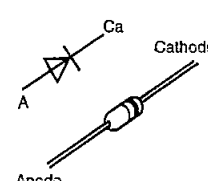
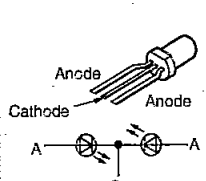


- : Positive voltage line
- : Negative voltage line
- : AM signal Line
- : Surround Speaker Drive signal line
- : Mic signal Line
- : FM signal line
- : Center Speaker Drive signal line

J RDS CIRCUIT For [EG,EP] areas. (P.C.Board: on page 46)



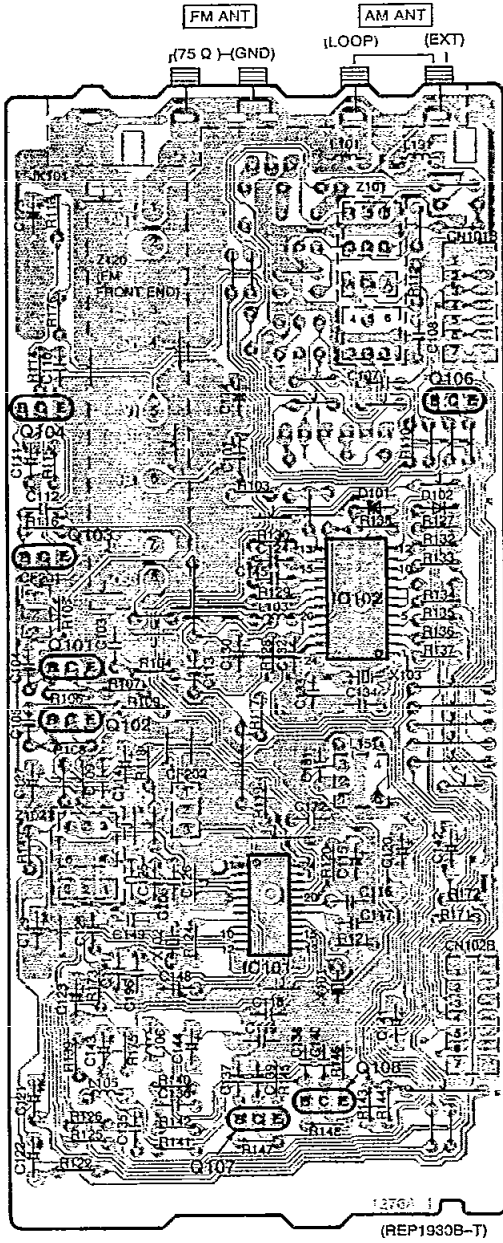
■ Type Illustration of IC's, Transistors and Diodes

| | | | | | | | | | | | | | | | |
|--|---|--|---|--|--|--|----------------------------------|---|---|------------|-------|--|--|--|---|
|  <p>No.1</p> | <table border="1"> <tr><td>BU9255FS-E2</td><td>16PIN</td></tr> <tr><td>LA1832MH-TEL</td><td>24PIN</td></tr> <tr><td>LA2230M-TE-L</td><td>24PIN</td></tr> <tr><td>LC7218M-TE-L</td><td>24PIN</td></tr> <tr><td>M62425FPE1</td><td>36PIN</td></tr> </table> | BU9255FS-E2 | 16PIN | LA1832MH-TEL | 24PIN | LA2230M-TE-L | 24PIN | LC7218M-TE-L | 24PIN | M62425FPE1 | 36PIN | <p>M5218AP</p>  | <p>LV1030</p>  | <p>M38198MC097F M38198MC099F</p>  | <p>M62433FP</p>  |
| BU9255FS-E2 | 16PIN | | | | | | | | | | | | | | |
| LA1832MH-TEL | 24PIN | | | | | | | | | | | | | | |
| LA2230M-TE-L | 24PIN | | | | | | | | | | | | | | |
| LC7218M-TE-L | 24PIN | | | | | | | | | | | | | | |
| M62425FPE1 | 36PIN | | | | | | | | | | | | | | |
| <p>TA2011S</p>  | <table border="1"> <tr><td>RSN308M24</td><td>22PIN</td></tr> <tr><td>RSN307M42</td><td>26PIN</td></tr> </table>  <p>No.1</p> | RSN308M24 | 22PIN | RSN307M42 | 26PIN |  <p>2SA1309AIRTA 2SC2787LTA 2SC2785FETA 2SC3311AIQST 2SC3311ARSTA 2SD1450STA UN411FTA UN4111AITA UN4115TA</p> | <p>UN4211AITA UN4214AITA</p> | <p>2SC3940AQSTA</p>  | <p>2SB621AQRSTA</p>  | | | | | | |
| RSN308M24 | 22PIN | | | | | | | | | | | | | | |
| RSN307M42 | 26PIN | | | | | | | | | | | | | | |
| <p>2SB1238QRTV2 2SD1859QRTV2</p>  | <p>2SB1548PQAU 2SD2374PQAU</p>  | <p>2SB1417PQTA 2SD2137PQTA</p>  | <p>2SD2144STA</p>  |  <p>Ca Cathode Anode</p> | <p>MA4020LTA MA4039MTA MA4051LTA MA4051MTA MA4062HTA MA4082LTA</p> | | | | | | | | | | |
|  <p>Ca Cathode Anode</p> | <p>MA4100MTA MA4120MTA MA4140MTA MA4150HTA MA4200MTA MA4300MTA</p> | <p>1N5402BF RL1N4003N02</p>  <p>Ca Cathode Anode</p> | <p>SB360L6508</p>  <p>Ca Cathode Anode</p> |  <p>Ca Cathode Anode</p> | <p>MA165TA MA700TA 1SS291TA</p> | | | | | | | | | | |
| <p>MA185TA</p>  <p>Ca Cathode Anode</p> | <p>SPR505MDTT</p>  <p>Anode Cathode Ca Anode</p> | | | | | | | | | | | | | | |

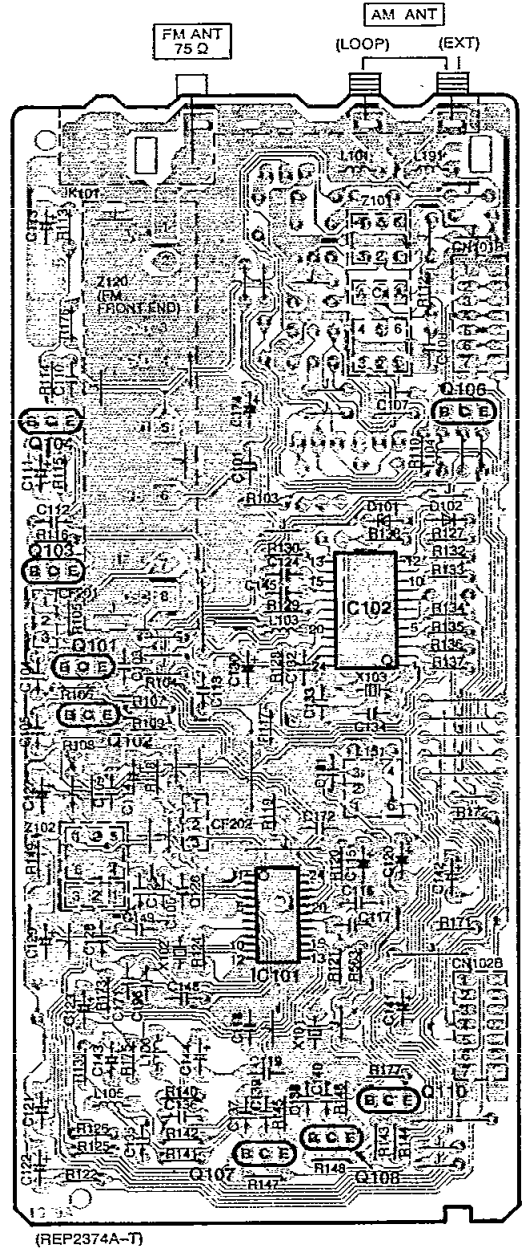
Printed Circuit Board Diagram

• This circuit board diagram may be modified at any time with the development of new technology.

A TUNER P.C.B. For [E,EB] areas.

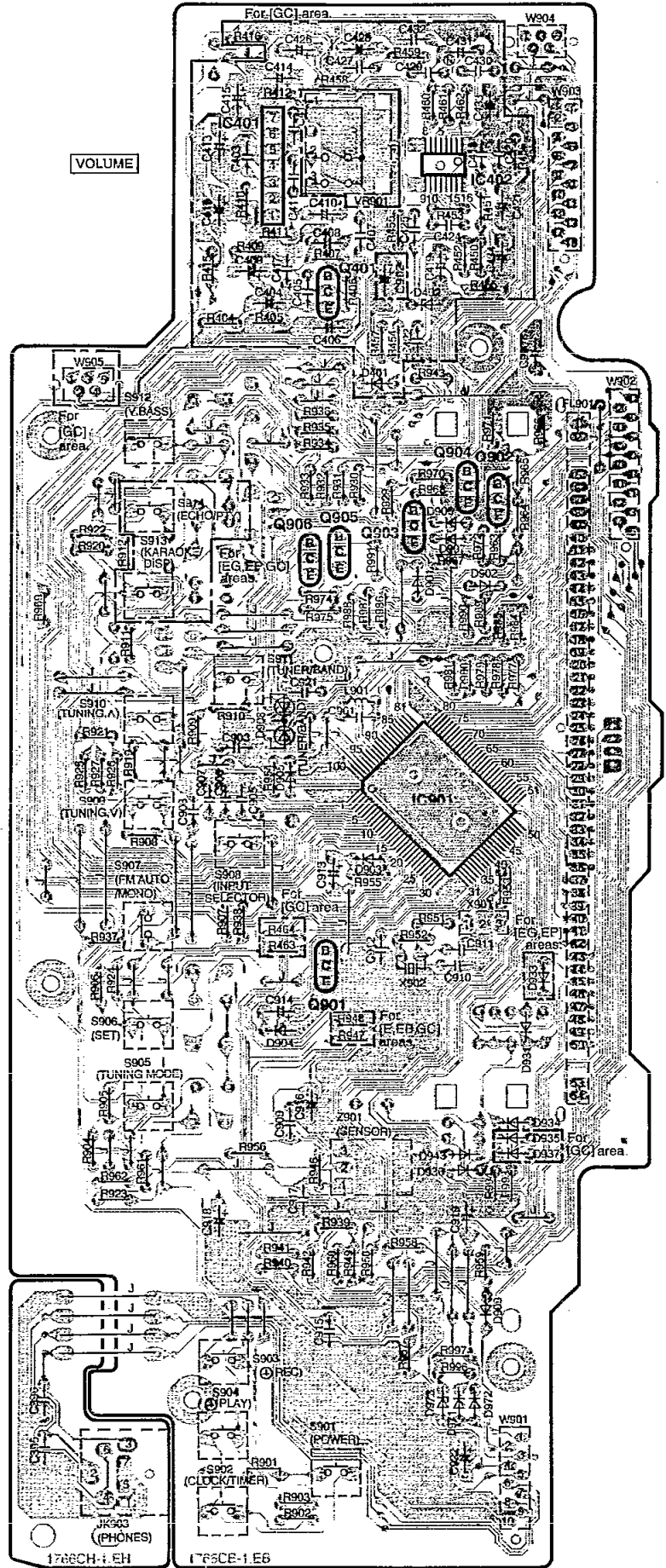
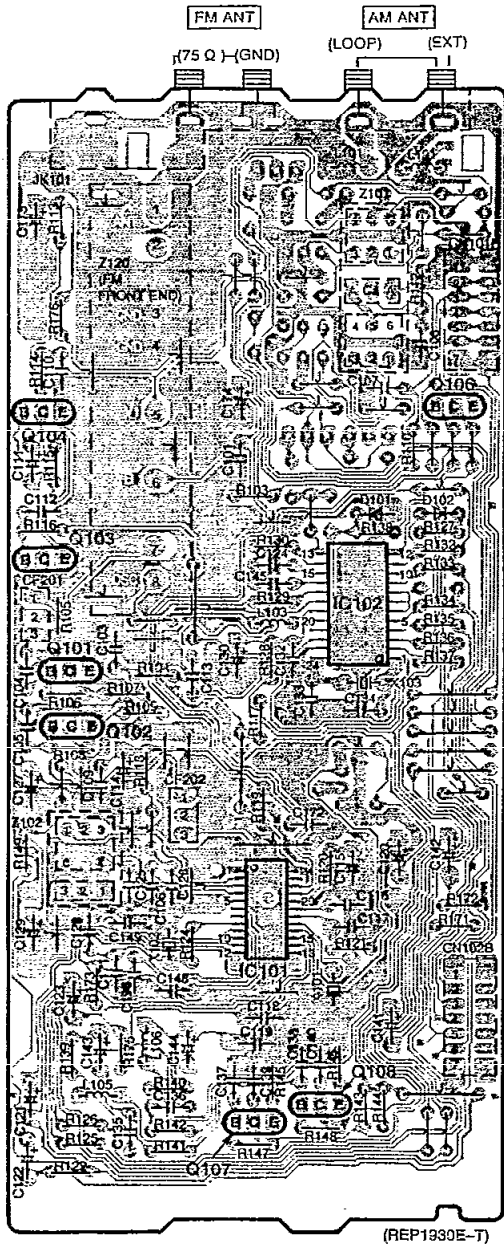


A TUNER P.C.B. For [EG,EP] areas.

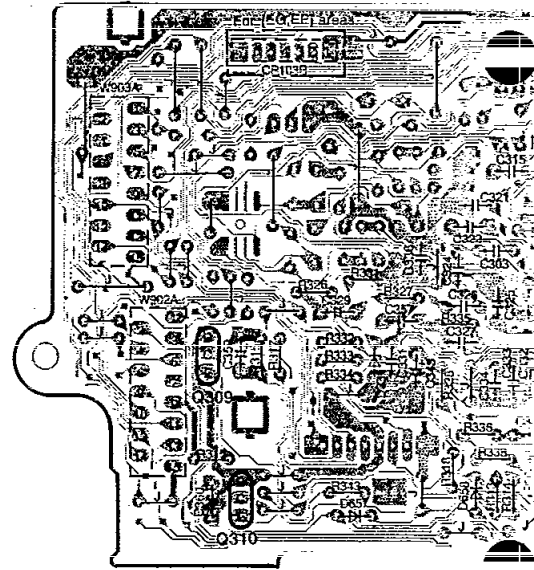
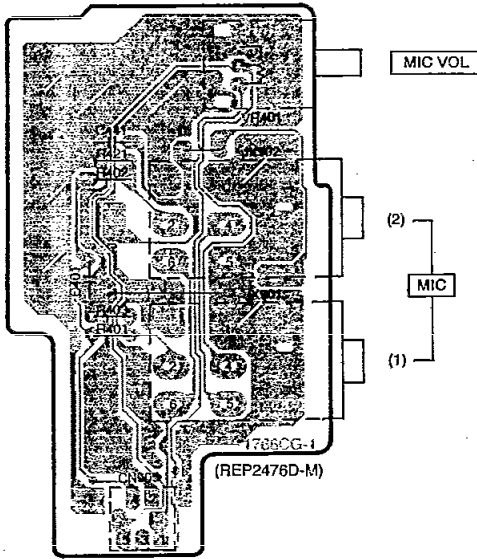


B OPERATION P.C.B.

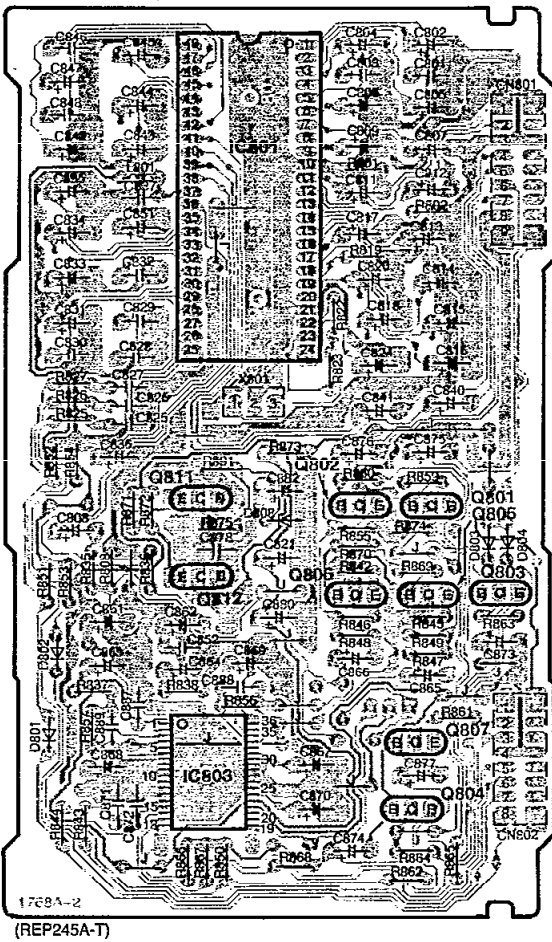
A TUNER P.C.B. For [GC] area.



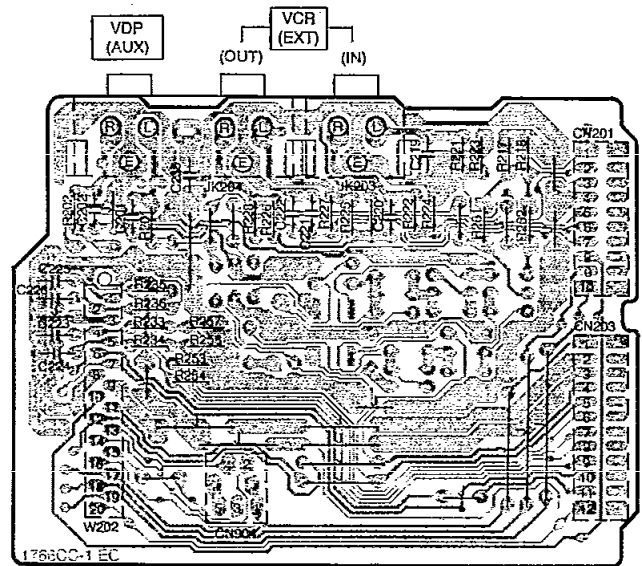
C MIC JACK P.C.B.
For [GC] area.



D DOLBY PROLOGIC P.C.B.
For [GC] area.



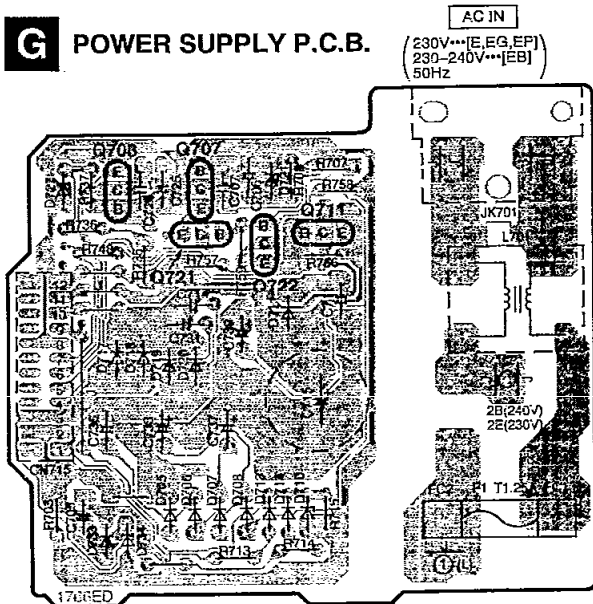
E IN/OUT TERMINAL P.C.B.



(REP2476B-M---[E])
(REP2476C-M---[EB])
(REP2476D-M---[GC])
(REP2476F-M---[EG,EP])

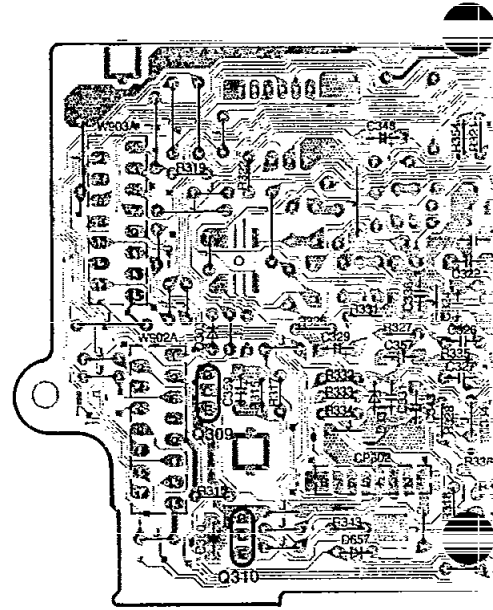
SH-EH50

G POWER SUPPLY P.C.B.

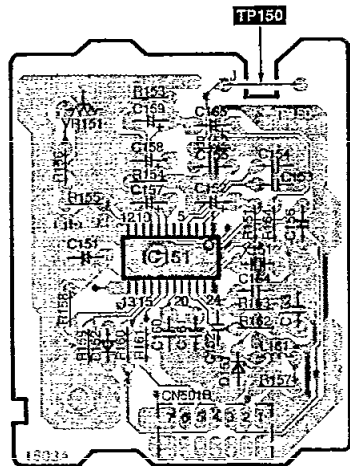


(REP2476B-M...[E]
REP2476C-M...[EB]
REP2476F-M...[EG,EP])

F MAIN P.C.B. For [GC] area.

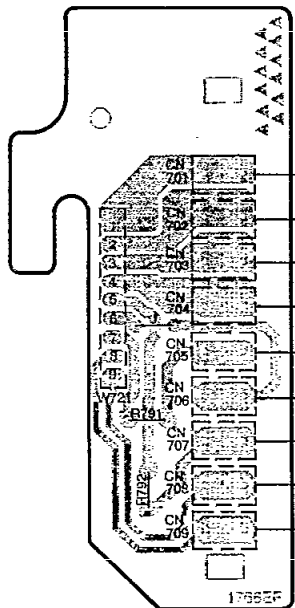


J RDS P.C.B. For [EG,EP] areas.



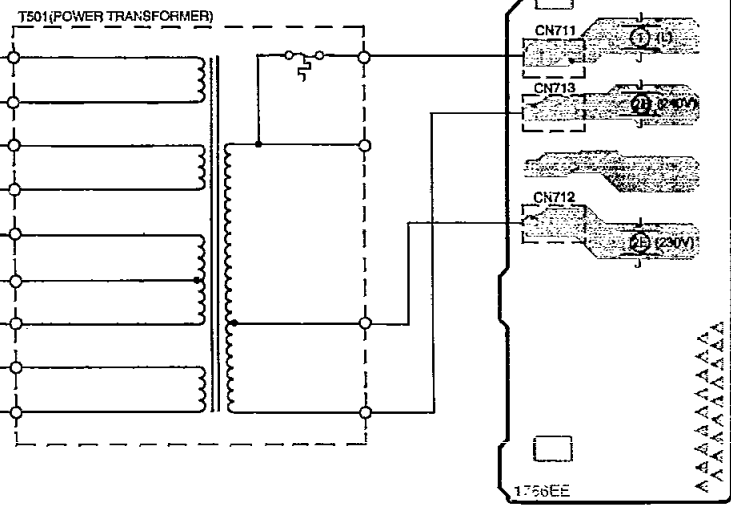
(REP2517A-T)

H POWER TRANSFORMER (A) P.C.B.



(REP2476B-M...[E]
REP2476C-M...[EB]
REP2476F-M...[EG,EP])

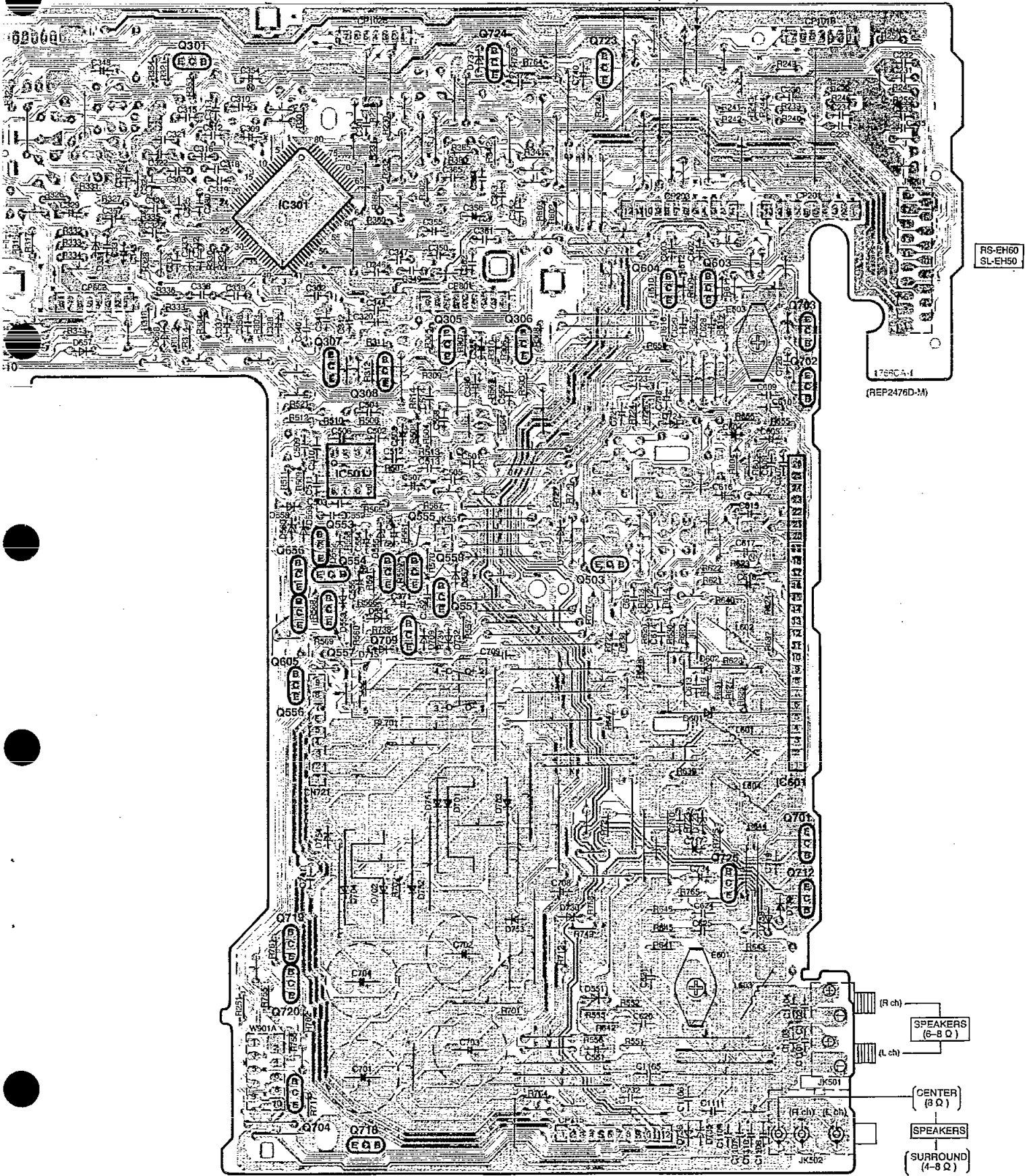
I POWER TRANSFORMER (B) P.C.B.



(REP2476B-M...[E]
REP2476C-M...[EB]
REP2476F-M...[EG,EP])

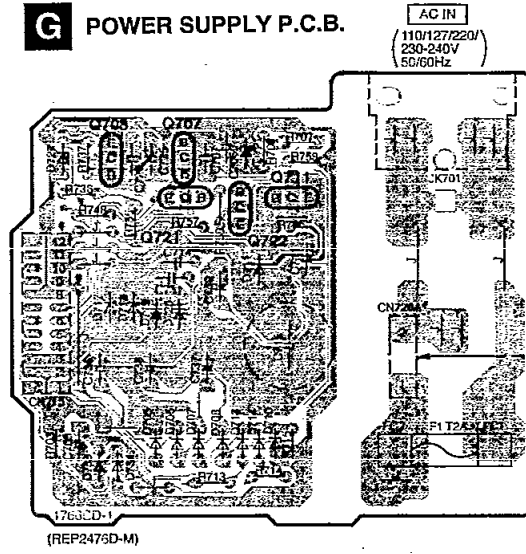
B. For [GC] area.

(D.GND)(CTGND)(A.GND)
TP701 TP702 TP703

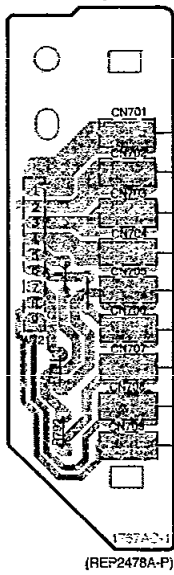


POWER SOURCE P.C.B. For [GC] area.

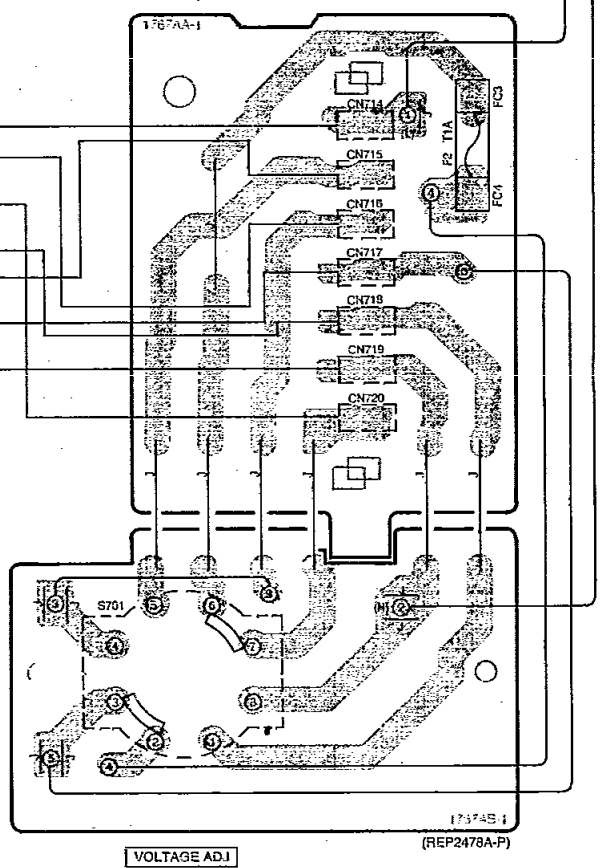
G POWER SUPPLY P.C.B.



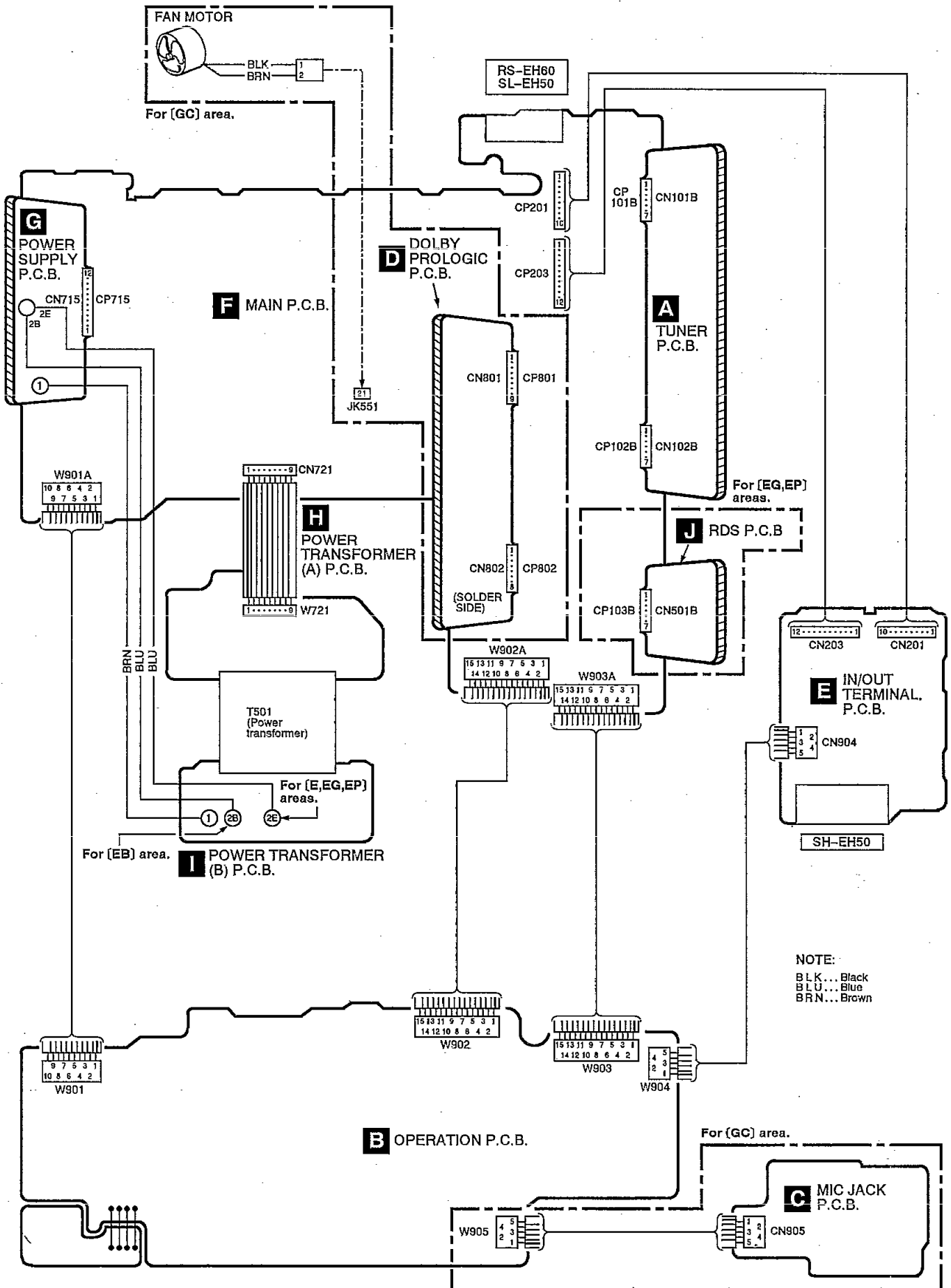
H POWER TRANSFORMER (A) P.C.B.



I POWER TRANSFORMER (B) P.C.B.



Wiring Connection Diagram



NOTE:
 B L K... Black
 B L U... Blue
 B R N... Brown

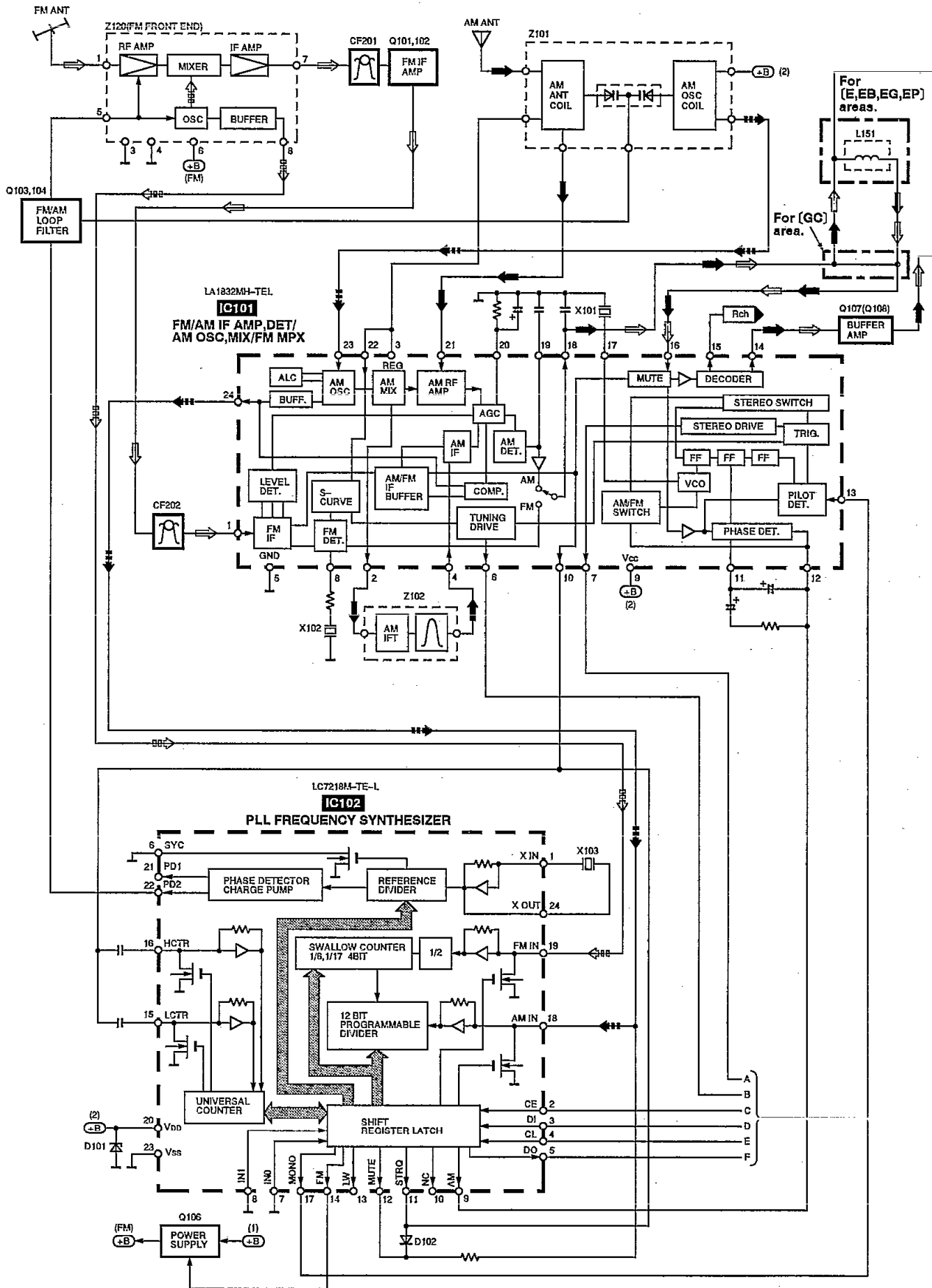
■ Terminal Function of IC's

- IC901 (M38198MC097F)...For (E)/(EP), (EB) and (EG) areas : SYSTEM CONTROL / FL DRIVE
 (M38198MC099F)...For (GC) area

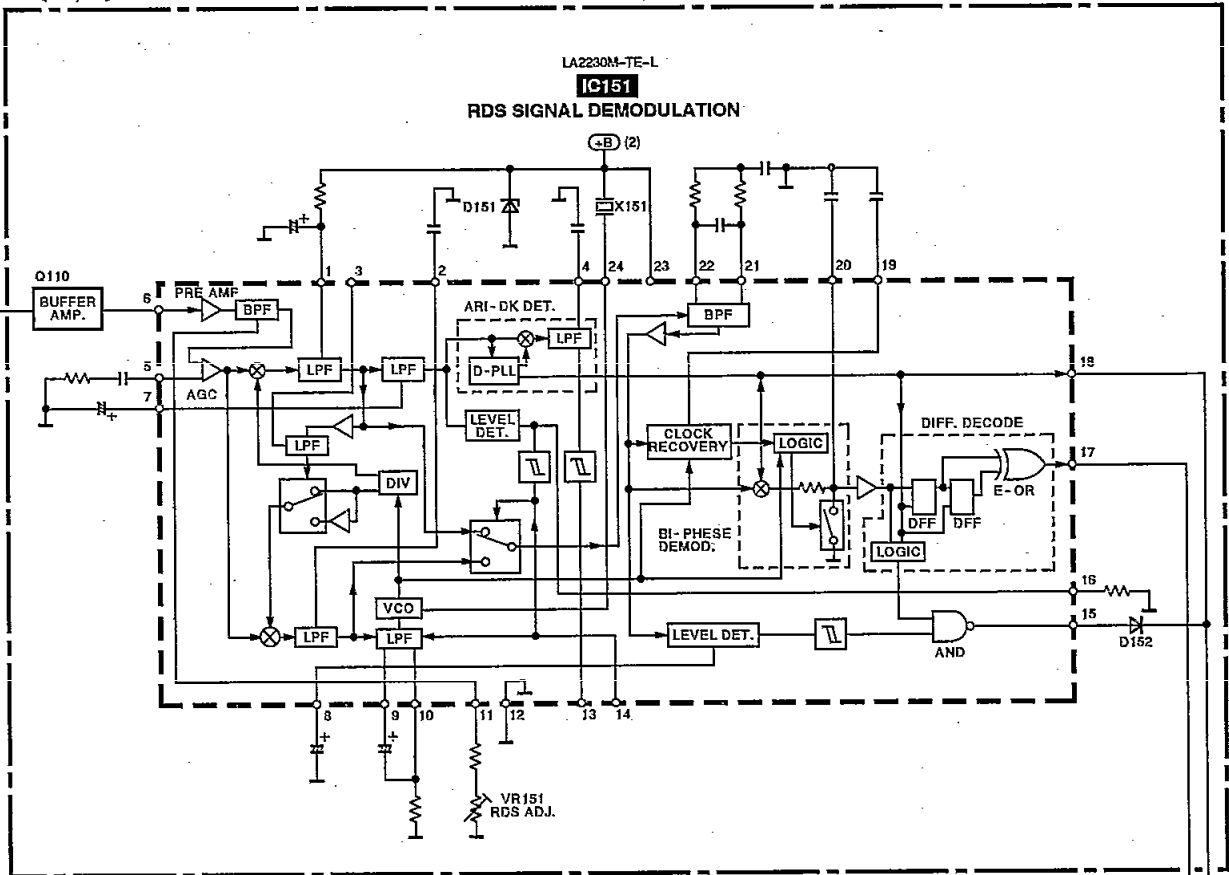
| Pin No. | Terminal Name | I/O | Function |
|---------|-------------------|-----|--|
| 1 | KEY TU | I | Operation switch signal input (TUNER, TIMER, AMP. section) |
| 2 | KEY KRAOKE | I | Operation switch signal input (KARAOKE section) |
| 3 | KEY SH | I | SH-EH50 Operation switch signal input |
| 4 | KEY CD | I | SL-EH50 Operation switch signal input (CD section) |
| 5 | KEY CD2 | I | SL-EH50 Operation switch signal input (Changer section) |
| 6 | DATA1 | O | Data signal output for M62433, M62425, LC7218 and LV1030 |
| 7 | CLK1 | O | Clock signal output for M62433, M62425, LC7218 and LV1030 |
| 8 | CLK2 | O | Clock signal output for M62425 (center and surround volume of dolby pro logic) |
| 9 | CLK3 | O | Serial communication signal to SH-EH50 (Clock signal output) |
| 10 | DATA2 | O | Serial communication signal to SH-EH50 (Data signal output) |
| 11 | CE2 | O | Serial communication signal to SH-EH50 (Chip enable signal output) |
| 12 | SEL/TUNER | O | LED (D908) drive signal output (TUNER: "H") |
| 13 | SEL/TUNER | O | LED (D908) drive signal output (TUNER: "L") |
| 14 | LATCH | O | Latch signal output to M62433FP |
| 15 | REQ | O | Request signal output to LV1030 |
| 16 | CE1 | O | Chip enable signal output to LC7218 |
| 17 | DATA IN | I | Data signal input from LC7218 |
| 18 | CR TIMER | I/O | TIME CONSTANT terminal |
| 19 | CD & DECK CS | I | Serial data communication starting signal input (CD and DECK mechanism) |
| 20 | CD & DECK SCLK IN | I | Serial clock input (CD and DECK mechanism) |
| 21 | CD & DECK SDA OUT | O | Serial data output (CD and DECK mechanism) |
| 22 | CD & DECK SDA IN | I | Serial data input (CD and DECK mechanism) |
| 23 | MD REQ | O | Not used, open |
| 24 | SEL MD | O | |
| 25 | DECK REQ | O | RS-EH60 request signal output |
| 26 | CD REQ | O | SL-EH50 request signal output |
| 27 | DPL & CHECK | O | Clock check signal terminal |
| 28 | RDS DATA | I | Not used, open |
| 29 | RDS CLK | I | |
| 30 | REMOCON | I | Remote control signal input |
| 31, 32 | D1, D2 | O | ECHO level set up signal output |
| 33 | ECHO | O | |

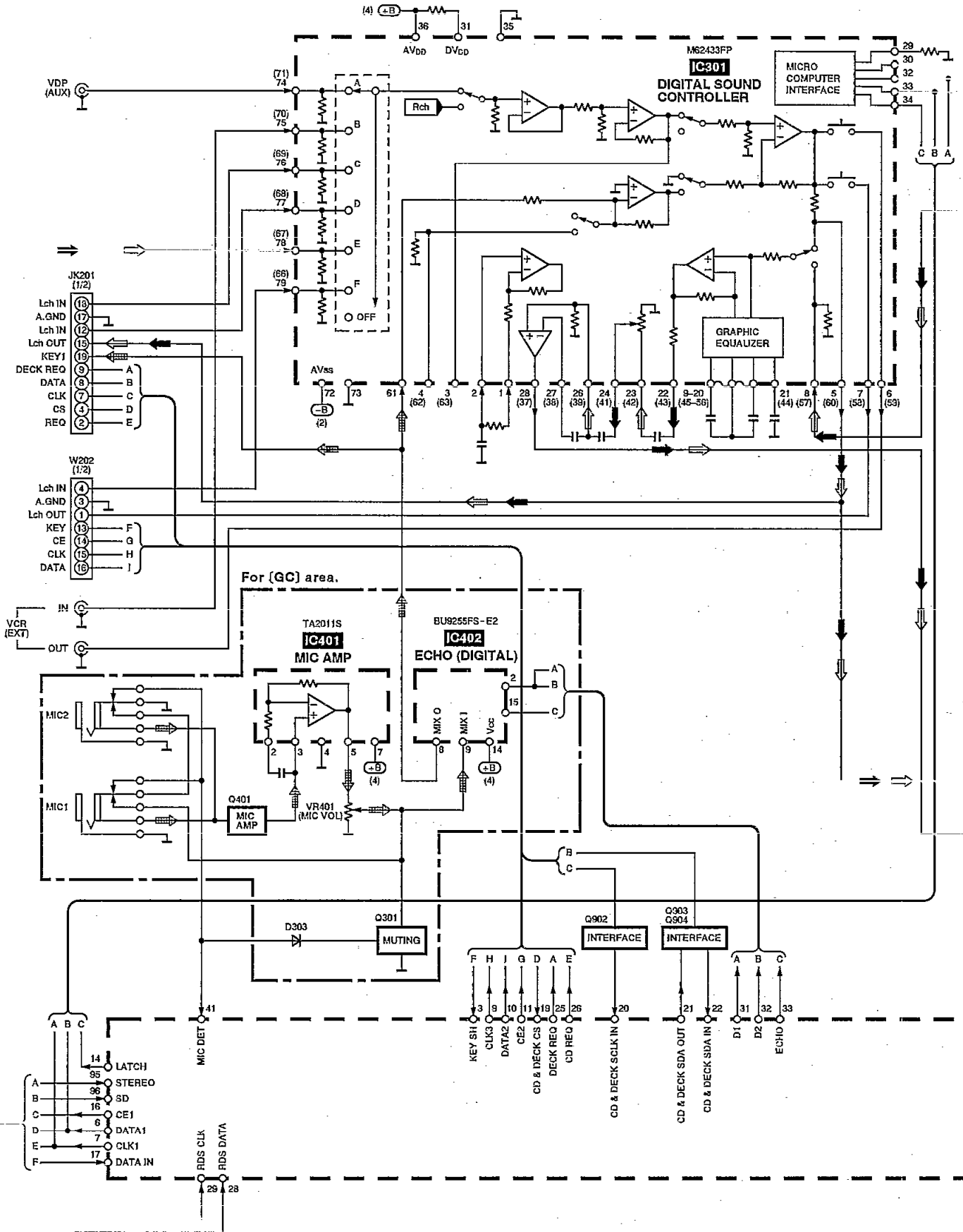
| Pin No. | Terminal Name | I/O | Function |
|---------|---------------|-----|---|
| 34 | SYNC | I | AC power source input terminal |
| 35 | RESET | I | Reset signal input |
| 36 | XC IN | I | Oscillator connected terminal (f = 32 kHz) |
| 37 | XC OUT | O | |
| 38 | X IN | I | Oscillator connected terminal (f = 6 MHz) |
| 39 | X OUT | O | |
| 40 | Vss | — | GND terminal |
| 41 | MIC DET | I | Microphone connecting detect signal input |
| 42 | MUTE | O | Muting signal output |
| 43 | V JOGB | I | Volume control signal input |
| 44 | V JOGA | I | |
| 45 | POWER | O | Power control signal output |
| 46 | 3DVOCAL | O | 3D Vocal control signal output |
| 47 | NC | — | No used, open |
| 48-54 | 7G-1G | O | Grid signal and chip select scan signal output |
| 55-85 | P31-P1 | O | Segment signal output |
| 86, 87 | CS0, CS1 | I | Chip select signal input |
| 88 | SEL TAPE | O | Tape select signal output |
| 89 | MIC S1 | O | Microphone signal output for ECHO (except for CD) |
| 90 | MIC S2 | O | Microphone through signal output (except for CD) |
| 91 | VCC | — | Power supply |
| 92 | VIBRATE | — | Not used, open |
| 93 | CHORUS | — | Not used, open |
| 94 | WIDE | — | Not used, open |
| 95 | STEREO | I | STEREO signal input for tuner circuit |
| 96 | SD | I | Station detector signal input for tuner circuit |
| 97 | IJO | I | Unusual condition detect terminal ("L": unusual) |
| 98 | -VP | — | Reference voltage input (negative) |
| 99 | AVSS | — | Connect to GND |
| 100 | VREF | — | Reference voltage input (positive) |

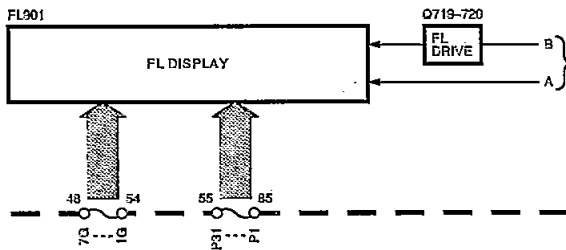
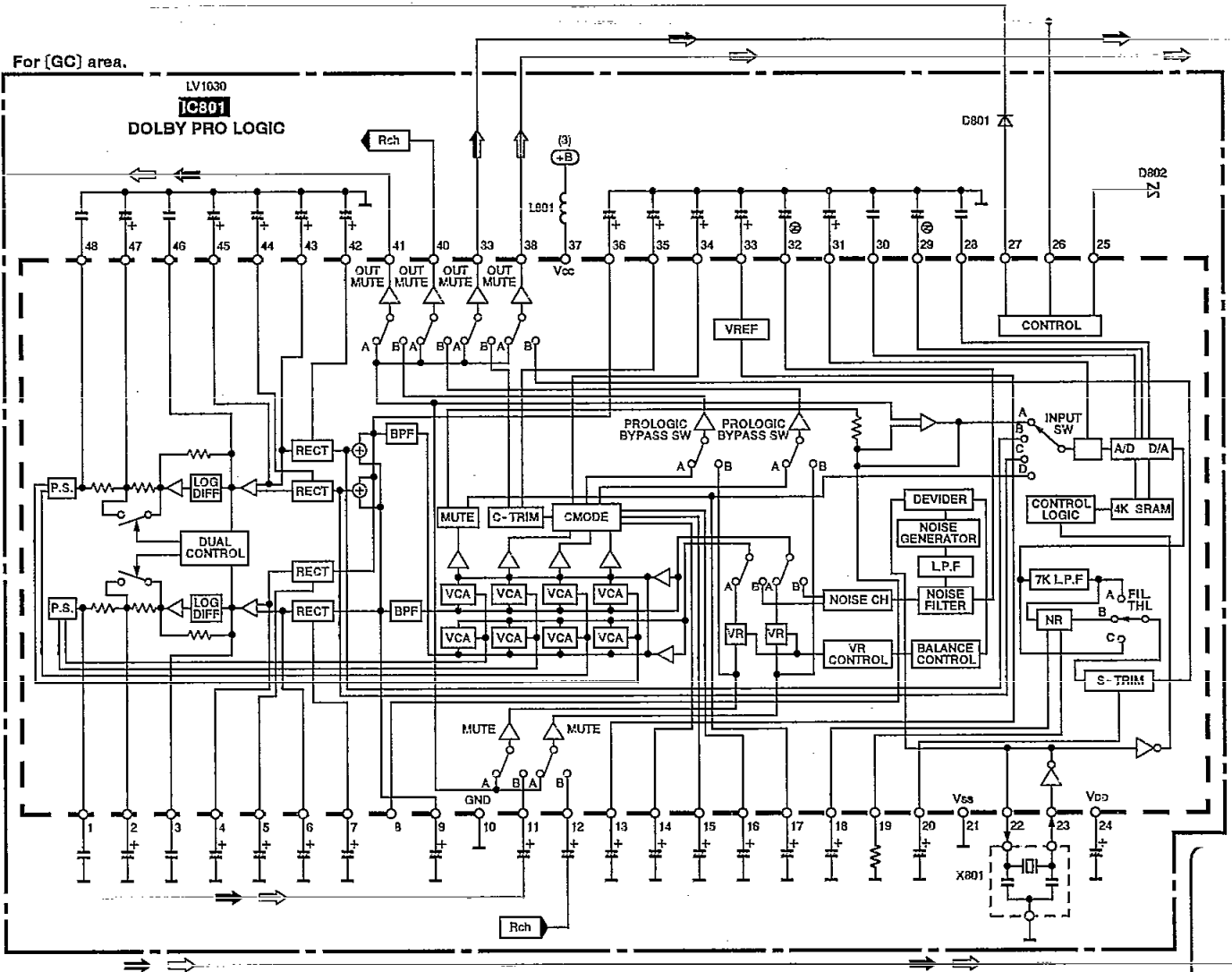
Block Diagram



For (EG,EP) areas.



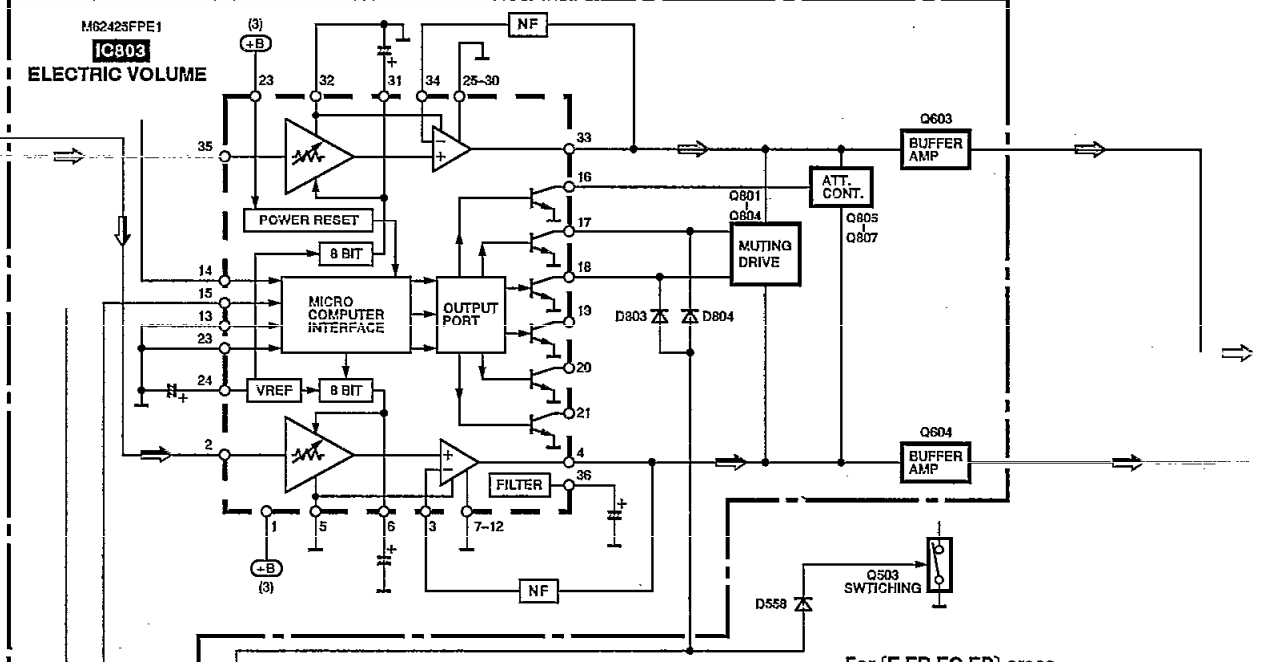




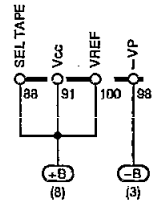
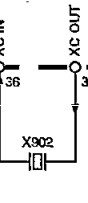
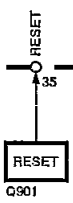
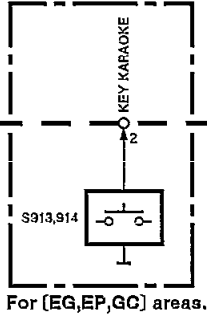
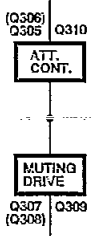
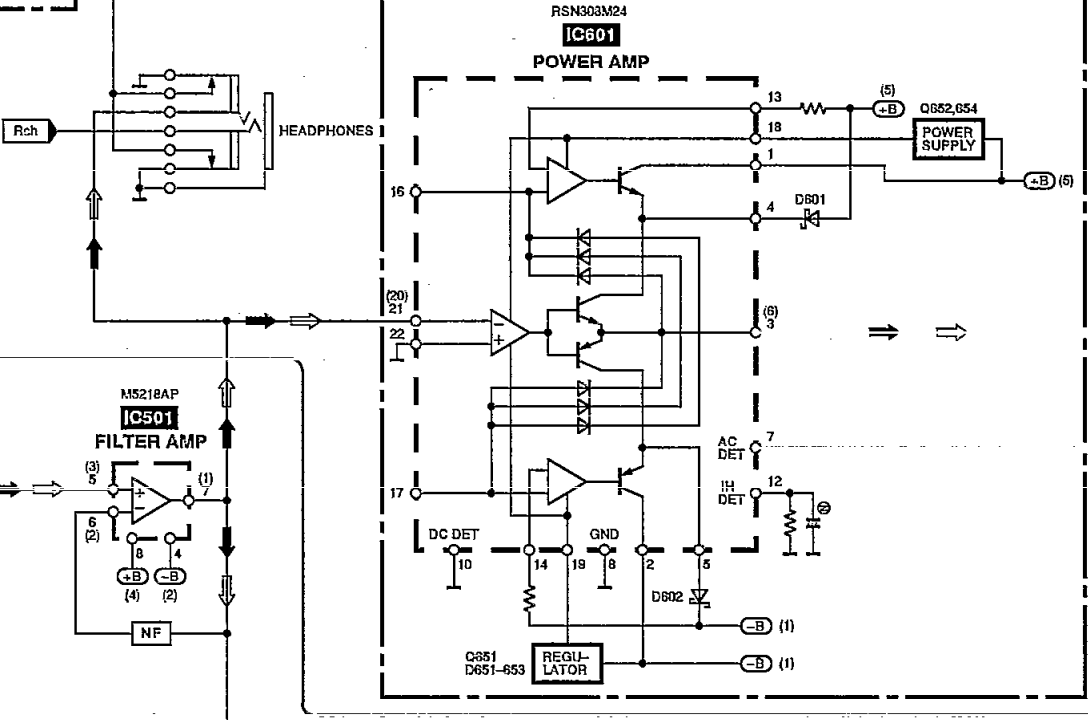
M38193MC097F... (E,EB,EG,EP)
M38193MC096F... (GC)

IC901
SYSTEM CONTROL
/ FL DRIVE

For (GC) area.

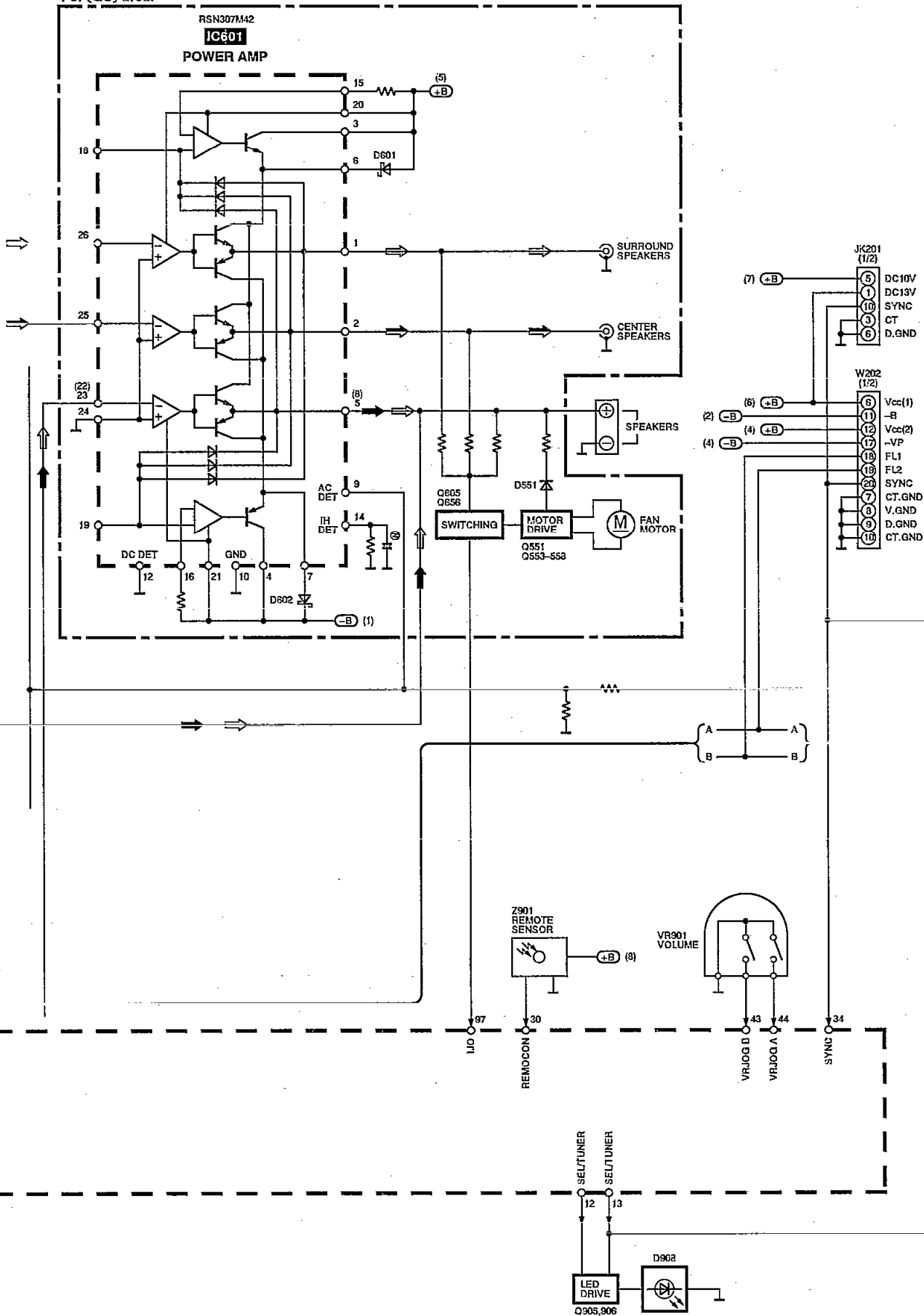


For (E,EB,EG,EP) areas.

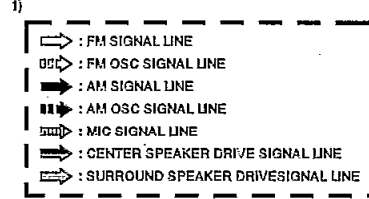


For (EG,EP,GC) areas.

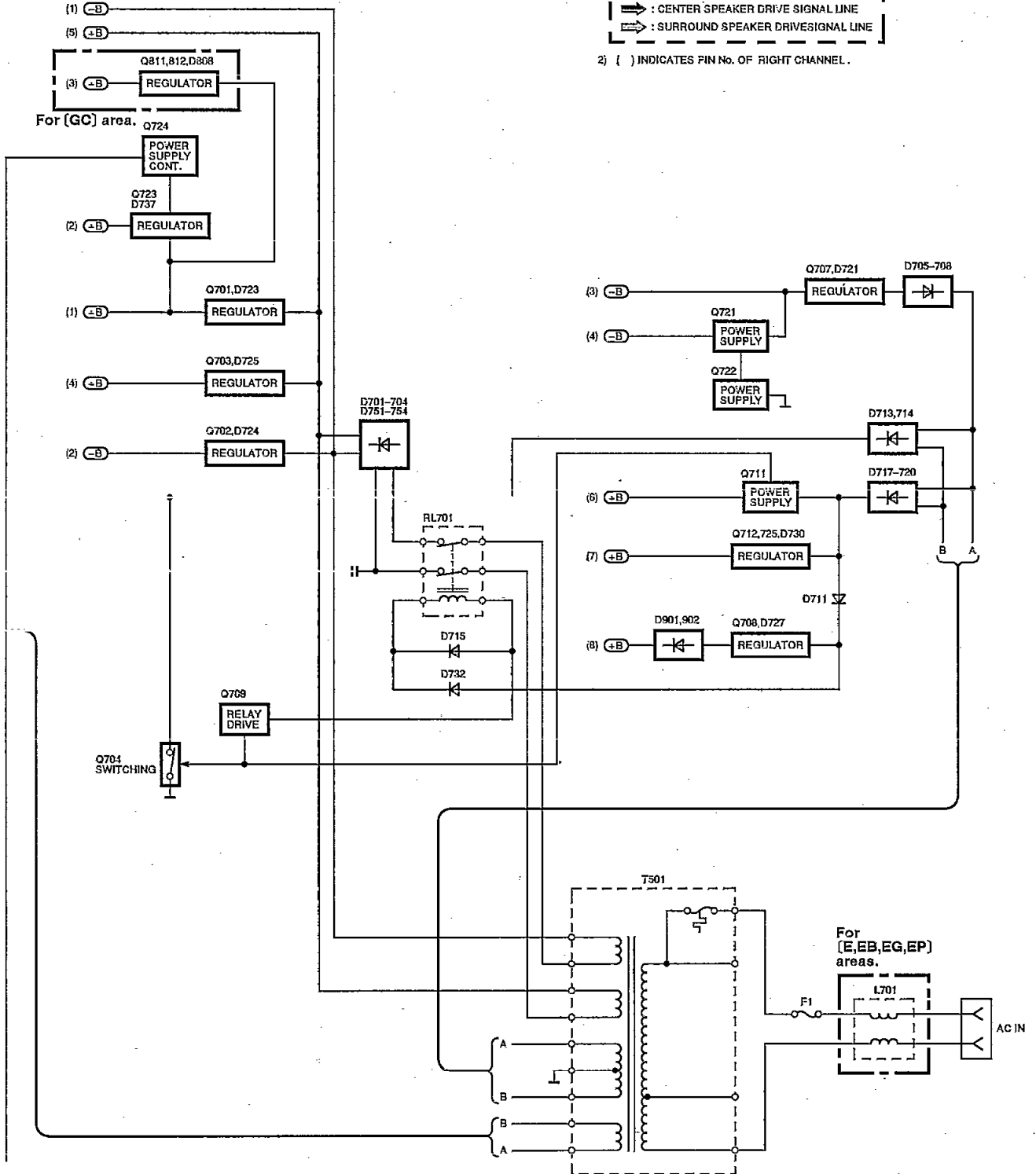
For (GC) area.



NOTES:



2) () INDICATES PIN No. OF RIGHT CHANNEL.



Replacement Parts List (Electrical) [For (E) and (EB) areas]

Notes: *Important safety notice:

 Components identified by Δ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)

Parts without these indications can be used for all areas.

 * $[M]$ Indicates in Remarks columns parts that are supplied by MESA.

| Ref. No. | Part No. | Part Name & Description | Remarks | Ref. No. | Part No. | Part Name & Description | Remarks |
|----------------|--------------|-------------------------|---------|--------------------|--------------|-------------------------|---------|
| | | INTEGRATED CIRCUIT (S) | | Q902-904 | 2SC3311AIRTA | TRANSISTOR | [M] |
| | | | | Q905, 906 | UN411FTA | TRANSISTOR | [M] |
| IC101 | LA1832MI-TEL | IC | [M] | | | DIODE (S) | |
| IC102 | LC7218M-TE-L | IC | [M] | D101 Δ | MA4051MTA | DIODE | [M] |
| IC301 | M62433FP | IC | [M] | D102 | MA165 | DIODE | [M] |
| IC501 | M5218AP | IC | [M] | D331 | MA4051-L | DIODE | [M] |
| IC601 Δ | RSN308M24 | IC | [M] | D551, 552 | MA165 | DIODE | [M] |
| IC901 | M38198MCO97F | IC | [M] | D555 | MA4100MTA | DIODE | [M] |
| | | TRANSISTOR (S) | | D558 | MA165 | DIODE | [M] |
| Q101, 102 | 2SC2787L | TRANSISTOR | [M] | D601, 602 | SB36JL6508 | DIODE | [M] |
| Q103, 104 | 2SC2785FE | TRANSISTOR | [M] | D651 Δ | MA4200M | DIODE | [M] |
| Q106 | UN411FTA | TRANSISTOR | [M] | D652, 653 Δ | MA4140M | DIODE | [M] |
| Q107, 108 | 2SC3311AR | TRANSISTOR | [M] | D657, 658 | MA165 | DIODE | [M] |
| Q305, 306 | 2SC3311AIRTA | TRANSISTOR | [M] | D701-704 Δ | 1N5402BF | DIODE | [M] |
| Q307, 308 | 2SD2144S | TRANSISTOR | [M] | D705-708 Δ | RL1N4003N02 | DIODE | [M] |
| Q309, 310 | UN4115 | TRANSISTOR | [M] | D709 | MA165 | DIODE | [M] |
| Q503 | 2SD1450RTA | TRANSISTOR | [M] | D710 | MA4051MTA | DIODE | [M] |
| Q551 | 2SA1309AIRTA | TRANSISTOR | [M] | D711 | RL1N4003N02 | DIODE | [M] |
| Q554 | 2SA1309AIRTA | TRANSISTOR | [M] | D713, 714 Δ | MA185TA | DIODE | [M] |
| Q555 | 2SD2144S | TRANSISTOR | [M] | D715 | MA165 | DIODE | [M] |
| Q558 | 2SD2144S | TRANSISTOR | [M] | D717-720 Δ | RL1N4003N02 | DIODE | [M] |
| Q605 | 2SC3311AIRTA | TRANSISTOR | [M] | D721 Δ | MA4300M | DIODE | [M] |
| Q651 Δ | 2SB1238QRTV6 | TRANSISTOR | [M] | D723 Δ | MA4150M | DIODE | [M] |
| Q652 | 2SD1859QRTV2 | TRANSISTOR | [M] | D724, 725 Δ | MA4082LTA | DIODE | [M] |
| Q654 | 2SD1859QRTV2 | TRANSISTOR | [M] | D727 Δ | MA4062-H | DIODE | [M] |
| Q656 | 2SC3311AIRTA | TRANSISTOR | [M] | D730 Δ | MA4100MTA | DIODE | [M] |
| Q701 Δ | 2SD2374PQAU | TRANSISTOR | [M] | D732-736 | MA165 | DIODE | [M] |
| Q702 Δ | 2SB1548PQAU | TRANSISTOR | [M] | D737 Δ | MA4082LTA | DIODE | [M] |
| Q703 Δ | 2SD2374PQAU | TRANSISTOR | [M] | D738, 739 | MA165 | DIODE | [M] |
| Q704 | UN4211 | TRANSISTOR | [M] | D751, 752 Δ | 1N5402BF | DIODE | [M] |
| Q707 Δ | 2SB621A-R | TRANSISTOR | [M] | D753, 754 Δ | RL1N4003N02 | DIODE | [M] |
| Q708 Δ | 2SD2137PQTA | TRANSISTOR | [M] | D901, 902 | 1SS291TA | DIODE | [M] |
| Q709 | 2SD2144S | TRANSISTOR | [M] | D903, 904 | MA165 | DIODE | [M] |
| Q711 | 2SB1417PQTA | TRANSISTOR | [M] | D905 | 1SS291TA | DIODE | [M] |
| Q712 Δ | 2SB1548PQAU | TRANSISTOR | [M] | D906, 907 | MA165 | DIODE | [M] |
| Q718 | UN4111 | TRANSISTOR | [M] | D908 | SPR505MDTT | L. E. D. | [M] |
| Q719, 720 | 2SD1450RTA | TRANSISTOR | [M] | D909 | MA165 | DIODE | [M] |
| Q721 | 2SC3311AIRTA | TRANSISTOR | [M] | D931 | MA165 | DIODE | [M] |
| Q722 | 2SA1309AIRTA | TRANSISTOR | [M] | D934 | MA165 | DIODE | [M] |
| Q723 Δ | 2SC3940AQSTA | TRANSISTOR | [M] | D936 | MA165 | DIODE | [M] |
| Q724 | UN4211 | TRANSISTOR | [M] | D943 | MA165 | DIODE | [M] |
| Q725 Δ | 2SC3311AIRTA | TRANSISTOR | [M] | D971, 972 | MA165 | DIODE | [M] |
| Q901 | UN4214TA | TRANSISTOR | [M] | D973 | MA4039MTA | DIODE | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks | Ref. No. | Part No. | Part Name & Description | Remarks |
|-----------|--------------|--------------------------|---------|-----------|--------------|-------------------------|---------|
| | | VARIABLE RESISTOR(S) | | | | | |
| VR901 | EVQVBXFK124B | V. R | [M] | CN201 | RJU057W010 | CONNECTOR(10P) | [M] |
| | | COMPONENT COMBINATION(S) | | CN203 | RJU057W012 | CONNECTOR(12P) | [M] |
| Z101 | RLA2Z002M-T | COMPONENT COMBINATION | [M] | CN701-709 | RJS1A1101T1 | CONNECTOR(1P) | [M] |
| Z102 | RLI2Z006M-T | COMPONENT COMBINATION | [M] | CN711-713 | RJS1A1101T1 | CONNECTOR(1P) | [M] |
| Z120 | RAL0019 | FM FRONT END | [M] | CN715 | RJU057W012 | CONNECTOR(12P) | [M] |
| Z901 | RCDGPIU28XD | REMOTE SENSOR | [M] | CN721 | RJS9T5ZA | CONNECTOR(9P) | [M] |
| | | COIL(S) | | CN904 | RJS2A2105 | CONNECTOR(5P) | [M] |
| L101 | ELESNR68MA | COIL | [M] | CN101B | RJU057W007 | CONNECTOR(7P) | [M] |
| L103 | ELEXTR47MA9 | COIL | [M] | CN102B | RJU057W007 | CONNECTOR(7P) | [M] |
| L105, 106 | ELELN822KL | COIL | [M] | CP201 | RJT057W010-1 | CONNECTOR(10P) | [M] |
| L151 | SLM1B10M-1M | COIL | [M] | CP203 | RJT057W012-1 | CONNECTOR(12P) | [M] |
| L191 | ELESNR68MA | COIL | [M] | CP715 | RJT057W012-1 | CONNECTOR(12P) | [M] |
| L601, 602 | SLQY07G-40 | COIL | [M] | CP101B | RJT057W007-1 | CONNECTOR(7P) | [M] |
| L701△ | RLQZ271M-K | COIL | [M] | CP102B | RJT057W007-1 | CONNECTOR(7P) | [M] |
| L901 | RLQA100JT-Y | COIL | [M] | | | EARTH TERMINAL(S) | |
| | | TRANSFORMER(S) | | E601 | SNE1004-2 | EARTH TERMINAL | [M] |
| T501△ | RTP2N5B009 | POWER TRANSFORMER | [M] | E603 | SNE1004-2 | EARTH TERMINAL | [M] |
| | | FILTER(S) | | | | FUSE HOLDER(S) | |
| CF201 | RLFFETNGD01L | CERAMIC FILTER | [M] | FC1, 2 | EYF52BC | FUSE HOLDER | [M] |
| CF202 | RLFFETNGD01L | CERAMIC FILTER | [M] | | | RELAY(S) | |
| | | OSCILLATOR(S) | | RL701△ | RSY0030-C | RELAY | [M] |
| X101 | RSX2456KM07M | OSCILLATOR | [M] | | | JACK(S) | |
| X102 | RLFDGT05DD | OSCILLATOR | [M] | JK101 | RJH5210M | ANTENNA | [M] |
| X103 | RSXC7M20S05T | OSCILLATOR | [M] | JK201 | RJT065K19 | SYSTEM | [M] |
| X901 | EFOEC6004T4 | OSCILLATOR | [M] | JK203 | SJF3068-7N | VCR IN | [M] |
| X902 | RSXD32R7S02 | OSCILLATOR | [M] | JK204 | SJF3069-5N | VDP/VCR OUT | [M] |
| | | DISPLAY TUBE | | JK501 | RJR0054M | SPEAKERS | [M] |
| FL901 | RSLO234-F | DISPLAY TUBE | [M] | JK701△ | SJS9236 | AC INLET | [M] |
| | | FUSE(S) | | JK903 | RJJ37T01-C | HEADPHONES | [M] |
| FL△ | XBA2C12TB0S | FUSE | [M] | | | | |
| | | SWITCH(ES) | | | | | |
| S901-912 | EVQ21405R | SW | [M] | | | | |
| | | CONNECTOR(S) | | | | | |

■ Resistors and Capacitors [For (E) and (EB) areas]

Notes : * Capacity values are in microfarads (μF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
 * Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

| Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks |
|-------------|-------------|------------------|------------|--------------|------------------|-----------|--------------|------------------|
| | | RESISTORS | | | | | | |
| R103 | ERDS2TJ330 | 1/4W 33 Ω | R235, 236 | ERDS2TJ102 | 1/4W 1K Ω | R561 | ERDS2TJ104 | 1/4W 100K Ω |
| R104 | ERDS2TJ103 | 1/4W 10K Ω | R239-242 | ERDS2TJ102 | 1/4W 1K Ω | R562 | ERDS2TJ102 | 1/4W 1K Ω |
| R105 | ERDS2TJ471 | 1/4W 470 Ω | R243, 244 | ERDS2TJ152 | 1/4W 1.5K Ω | R563, 564 | ERDS2TJ273 | 1/4W 27K Ω |
| R106 | ERDS2TJ474 | 1/4W 470K Ω | R245, 246 | ERDS2TJ332 | 1/4W 3.3K Ω | R570 | ERDS2TJ335T | 1/4W 3.3M Ω |
| R107 | ERDS2TJ331 | 1/4W 330 Ω | R249, 250 | ERDS2TJ101 | 1/4W 100 Ω | R591 | ERDS2TJ473 | 1/4W 47K Ω |
| R108 | ERDS2TJ474 | 1/4W 470K Ω | R251 | ERDS2TJ222 | 1/4W 2.2K Ω | R604, 605 | ERDS2TJ103 | 1/4W 10K Ω |
| R109 | ERDS2TJ331 | 1/4W 330 Ω | R253, 254 | ERDS2TJ104 | 1/4W 100K Ω | R619, 620 | ERDS2TJ563 | 1/4W 56K Ω |
| R110 | ERDS2TJ102 | 1/4W 1K Ω | R255, 256 | ERDS2TJ123 | 1/4W 12K Ω | R623 | ERDS2TJ684 | 1/4W 680K Ω |
| R112 | ERDS2TJ104 | 1/4W 100K Ω | R257, 258 | ERDS2TJ562 | 1/4W 5.6K Ω | R624 | ERDS2TJ223 | 1/4W 22K Ω |
| R113 | ERDS2TJ103 | 1/4W 10K Ω | R261, 262△ | ERD25FVJ1R0T | 1/4W 1.0 Ω | R628 | ERDS2TJ184T | 1/4W 180K Ω |
| R114 | ERDS2TJ562 | 1/4W 5.6K Ω | R301 | ERDS2TJ223 | 1/4W 22K Ω | R629, 630 | ERDS2TJ100 | 1/4W 10 Ω |
| R115 | ERDS2TJ561 | 1/4W 560 Ω | R302 | ERDS2TJ472 | 1/4W 4.7K Ω | R631 | ERDS2TJ224T | 1/4W 220K Ω |
| R116 | ERDS2TJ102 | 1/4W 1K Ω | R303, 304 | ERDS2TJ222 | 1/4W 2.2K Ω | R632, 633 | ERDS2TJ563 | 1/4W 56K Ω |
| R117 | ERDS2TJ823T | 1/4W 82K Ω | R305, 306 | ERDS2TJ152 | 1/4W 1.5K Ω | R637 | ERDS2TJ154 | 1/4W 150K Ω |
| R118 | ERDS2TJ562 | 1/4W 5.6K Ω | R307, 308 | ERDS2TJ104 | 1/4W 100K Ω | R638 | ERDS2TJ684 | 1/4W 680K Ω |
| R119 | ERDS2TJ822 | 1/4W 8.2K Ω | R309, 310 | ERDS2TJ102 | 1/4W 1K Ω | R639-642△ | ERDS1FVJ100T | 1/2W 10 Ω |
| R120 | ERDS2TJ473 | 1/4W 47K Ω | R311, 312 | ERDS2TJ104 | 1/4W 100K Ω | R647, 648 | ERQ16NKWR15E | 1/6W 0.15 Ω |
| R121 | ERDS2TJ332 | 1/4W 3.3K Ω | R313, 314 | ERDS2EJ121 | 1/4W 120 Ω | R651 | ERDS2TJ222 | 1/4W 2.2K Ω |
| R122 | ERDS2TJ272T | 1/4W 2.7K Ω | R315 | ERDS2TJ104 | 1/4W 100K Ω | R654 | ERDS2TJ222 | 1/4W 2.2K Ω |
| R124 | ERDS2TJ271 | 1/4W 270 Ω | R316 | ERDS2TJ222 | 1/4W 2.2K Ω | R655, 656 | ERDS2TJ183T | 1/4W 18K Ω |
| R125, 126 | ERDS2TJ152 | 1/4W 1.5K Ω | R317 | ERDS2TJ105T | 1/4W 1M Ω | R667 | ERDS2TJ331 | 1/4W 330 Ω |
| R127 | ERDS2TJ103 | 1/4W 10K Ω | R318 | ERDS2TJ153 | 1/4W 15K Ω | R701, 702 | ERDS2TJ273 | 1/4W 27K Ω |
| R128 | ERDS2TJ820 | 1/4W 82 Ω | R324 | ERDS2TJ223 | 1/4W 22K Ω | R703, 704 | ERDS2TJ101 | 1/4W 100 Ω |
| R129 | ERDS2TJ473 | 1/4W 47K Ω | R326 | ERDS2TJ332 | 1/4W 3.3K Ω | R707△ | ERD25FVJ4R7T | 1/4W 4.7 Ω |
| R130 | ERDS2TJ103 | 1/4W 10K Ω | R327 | ERDS2TJ392T | 1/4W 3.9K Ω | R708 | ERDS2TJ472 | 1/4W 4.7K Ω |
| R132 | ERDS2TJ103 | 1/4W 10K Ω | R328 | ERDS2TJ332 | 1/4W 3.3K Ω | R712 | ERDS2TJ152 | 1/4W 1.5K Ω |
| R133-137 | ERDS2TJ102 | 1/4W 1K Ω | R329 | ERDS2TJ103 | 1/4W 10K Ω | R713, 714 | ERDS2TJ332 | 1/4W 3.3K Ω |
| R138 | ERDS2TJ103 | 1/4W 10K Ω | R330 | ERDS2TJ332 | 1/4W 3.3K Ω | R715 | ERDS2TJ183T | 1/4W 18K Ω |
| R139, 140 | ERDS2TJ272T | 1/4W 2.7K Ω | R331 | ERDS2TJ102 | 1/4W 1K Ω | R717 | ERDS2TJ473 | 1/4W 47K Ω |
| R141, 142 / | ERDS2TJ102 | 1/4W 1K Ω | R332-334 | ERDS2TJ222 | 1/4W 2.2K Ω | R721△ | ERD2FCVJ4R7T | 1/4W 4.7 Ω |
| R143, 144 | ERDS2TJ222 | 1/4W 2.2K Ω | R335, 336 | ERDS2TJ683 | 1/4W 68K Ω | R722△ | ERQ16NKW2R2E | 1/6W 2.2 Ω |
| R145, 146 | ERDS2TJ821 | 1/4W 820 Ω | R338 | ERDS2TJ392T | 1/4W 3.9K Ω | R723 | ERDS2TJ562 | 1/4W 5.6K Ω |
| R147, 148 | ERDS2TJ474 | 1/4W 470K Ω | R343 | ERDS2TJ334 | 1/4W 330K Ω | R724 | ERDS2TJ152 | 1/4W 1.5K Ω |
| R149 | ERDS2TJ680T | 1/4W 68 Ω | R360 | ERDS2TJ223 | 1/4W 22K Ω | R725, 726 | ERDS2TJ100 | 1/4W 10 Ω |
| R171, 172 | ERDS2TJ102 | 1/4W 1K Ω | R364 | ERDS2TJ103 | 1/4W 10K Ω | R727 | ERDS2TJ152 | 1/4W 1.5K Ω |
| R173 | ERDS2TJ471 | 1/4W 470 Ω | R365 | ERDS2TJ223 | 1/4W 22K Ω | R729 | ERDS2TJ221 | 1/4W 220 Ω |
| R175 | ERDS2TJ102 | 1/4W 1K Ω | R380 | ERDS2TJ153 | 1/4W 15K Ω | R735△ | ERD25FVJ4R7T | 1/4W 4.7 Ω |
| R176 | ERDS2TJ391 | 1/4W 390 Ω | R503, 504 | ERDS2TJ333 | 1/4W 33K Ω | R736 | ERDS2TJ102 | 1/4W 1K Ω |
| R201, 202△ | ERDS2FJ752 | 1/4W 7.5K Ω | R505, 506 | ERDS2TJ153 | 1/4W 15K Ω | R737 | ERDS2TJ221 | 1/4W 220 Ω |
| R217, 218 | ERDS2TJ562 | 1/4W 5.6K Ω | R507, 508 | ERDS2TJ332 | 1/4W 3.3K Ω | R738 | ERDS2TJ392T | 1/4W 3.9K Ω |
| R221, 222 | ERDS2FJ752 | 1/4W 7.5K Ω | R509-512 | ERDS2TJ560T | 1/4W 56 Ω | R739 | ERDS2TJ473 | 1/4W 47K Ω |
| R223, 224 | ERDS2TJ562 | 1/4W 5.6K Ω | R513, 514 | ERDS2TJ103 | 1/4W 10K Ω | R748 | ERDS2TJ102 | 1/4W 1K Ω |
| R225, 226 | ERDS2TJ104 | 1/4W 100K Ω | R551 | ERDS2TJ183T | 1/4W 18K Ω | R749 | ERDS2TJ271 | 1/4W 270 Ω |
| R227, 228 | ERDS2TJ222 | 1/4W 2.2K Ω | R552 | ERDS2TJ473 | 1/4W 47K Ω | R755△ | ERDS1FVJ8R2T | 1/2W 8.2 Ω |
| R229, 230 | ERDS2TJ822 | 1/4W 8.2K Ω | R555 | ERDS2TJ223 | 1/4W 22K Ω | R756△ | ERDS1FJ4R7 | 1/2W 4.7 Ω |
| R231-234 | ERDS2TJ682T | 1/4W 6.8K Ω | R556 | ERDS2TJ104 | 1/4W 100K Ω | R757-759 | ERDS2TJ103 | 1/4W 10K Ω |
| | | | R557 | ERDS2TJ103 | 1/4W 10K Ω | R761, 762 | ERDS2TJ822 | 1/4W 8.2K Ω |
| | | | R558 | ERDS2TJ102 | 1/4W 1K Ω | R763 | ERDS2TJ472 | 1/4W 4.7K Ω |
| | | | R559 | ERDS2TJ472 | 1/4W 4.7K Ω | R764 | ERDS2TJ331 | 1/4W 330 Ω |

| Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks |
|------------|--------------|------------------|-----------|--------------|------------------|-----------|--------------|------------------|
| R765△ | ERDS1FVJ561T | 1/2W 560 [M] | R984, 985 | ERDS2TJ473 | 1/4W 47K [M] | C302, 303 | ECBT1H561KB5 | 50V 560P [M] |
| R766 | ERDS2TJ102 | 1/4W 1K [M] | R986-988 | ERDS2TJ102 | 1/4W 1K [M] | C309 | ECEA1HKAR22B | 50V 0.22U [M] |
| R767△ | ERD2FCVJ4R7T | 1/4W 4.7 [M] | R989, 990 | ERDS2TJ393 | 1/4W 39K [M] | C310 | ECFRIC393KR | 16V 0.039U [M] |
| R768 | ERDS2TJ101 | 1/4W 100 [M] | R991 | ERDS2TJ473 | 1/4W 47K [M] | C312 | ECFRIC823MR | 16V 0.082U [M] |
| R791, 792△ | RSFMB30KT-L | PROTECTOR [M] | R993, 994 | ERDS2TJ104 | 1/4W 100K [M] | C313 | ECFRIC103KR | 16V 0.01U [M] |
| R901 | ERDS2TJ821 | 1/4W 820 [M] | R996, 997 | ERDS2TJ151 | 1/4W 150 [M] | C315 | ECFRIC223KR | 16V 0.022U [M] |
| R902 | ERDS2TJ102 | 1/4W 1K [M] | | | | C316 | ECBT1C332KR5 | 16V 3300P [M] |
| R903 | ERDS2TJ122 | 1/4W 1.2K [M] | | | CAPACITORS | C318 | ECBT1C682KR5 | 16V 6800P [M] |
| R904 | ERDS2TJ152 | 1/4W 1.5K [M] | | | | C319 | ECBT1H102KB5 | 50V 1000P [M] |
| R905 | ERDS2TJ182 | 1/4W 1.8K [M] | C101 | ECBT1C103NS5 | 16V 0.01U [M] | C320 | ECBA1H681KB5 | 50V 680P [M] |
| R906 | ERDS2TJ222 | 1/4W 2.2K [M] | C103 | ECBT1C103NS5 | 16V 0.01U [M] | C321 | ECBT1C332KR5 | 16V 3300P [M] |
| R907 | ERDS2TJ272T | 1/4W 2.7K [M] | C104, 105 | ECBT1H102KB5 | 50V 1000P [M] | C322 | ECQV1H333JM3 | 50V 0.033U [M] |
| R908 | ERDS2TJ472 | 1/4W 4.7K [M] | C106 | ECBT1C103NS5 | 16V 0.01U [M] | C324 | ECFRIC683KR | 16V 0.068U [M] |
| R909 | ERDS2TJ682T | 1/4W 6.8K [M] | C107 | ECBT1H473ZF5 | 50V 0.047U [M] | C325 | ECQV1H154JM3 | 50V 0.15U [M] |
| R910 | ERDS2TJ123 | 1/4W 12K [M] | C108 | ECBT1H8R2KC5 | 50V 8.2P [M] | C326 | ECBT1H102KB5 | 50V 1000P [M] |
| R911 | ERDS2TJ223 | 1/4W 22K [M] | C109, 110 | ECBT1C103NS5 | 16V 0.01U [M] | C327 | ECBT1H471KB5 | 50V 470P [M] |
| R912 | ERDS2TJ821 | 1/4W 820 [M] | C111 | ECEA1EKA4R7B | 25V 4.7U [M] | C328 | RCE1CKA470BG | 16V 47U [M] |
| R919-923 | ERDS2TJ103 | 1/4W 10K [M] | C112 | ECBT1C103NS5 | 16V 0.01U [M] | C329 | ECEA1HKA2R2B | 50V 2.2U [M] |
| R924-927 | ERDS2TJ102 | 1/4W 1K [M] | C113 | ECBT1H102KB5 | 50V 1000P [M] | C330 | ECBA1H681KB5 | 50V 680P [M] |
| R929 | ERDS2TJ102 | 1/4W 1K [M] | C114 | RCE1HKA3R3BG | 50V 3.3U [M] | C331 | ECBT1H104ZF5 | 50V 0.1U [M] |
| R930 | ERDS2TJ101 | 1/4W 100 [M] | C115 | ECEA1EKA4R7B | 25V 4.7U [M] | C332-334 | ECBT1H470J5 | 50V 47P [M] |
| R931-936 | ERDS2TJ102 | 1/4W 1K [M] | C116 | ECBT1C822KS5 | 16V 8200P [M] | C336 | ECBT1H104ZF5 | 50V 0.1U [M] |
| R937 | ERDS2TJ562 | 1/4W 5.6K [M] | C117 | ECQP1391JZ | 100V 390P [M] | C337 | RCE1CKA470BG | 16V 47U [M] |
| R938 | ERDS2TJ102 | 1/4W 1K [M] | C118, 119 | ECFRIC103KR | 16V 0.01U [M] | C338 | ECBT1H471KB5 | 50V 470P [M] |
| R939 | ERDS2TJ152 | 1/4W 1.5K [M] | C120, 121 | ECEA1HKA010B | 50V 1U [M] | C339 | ECBT1H102KB5 | 50V 1000P [M] |
| R940, 941 | ERDS2TJ102 | 1/4W 1K [M] | C122 | ECEA1HKA2R2B | 50V 2.2U [M] | C340 | ECQV1H154JM3 | 50V 0.15U [M] |
| R942 | ERDS2TJ101 | 1/4W 100 [M] | C123 | ECEA1HKA010B | 50V 1U [M] | C341 | ECFRIC683KR | 16V 0.068U [M] |
| R943 | ERDS2TJ102 | 1/4W 1K [M] | C124 | ECBT1H102KB5 | 50V 1000P [M] | C342 | ECQV1H333JM3 | 50V 0.033U [M] |
| R946 | ERDS2TJ102 | 1/4W 1K [M] | C125 | ECBT1H150JG5 | 50V 15P [M] | C343 | ECEA1HKA2R2B | 50V 2.2U [M] |
| R947, 948 | ERDS2TJ104 | 1/4W 100K [M] | C126 | ECBT1H473ZF5 | 50V 0.047U [M] | C344 | ECBT1C332KR5 | 16V 3300P [M] |
| R949 | ERDS2TJ472 | 1/4W 4.7K [M] | C127 | ECEA1CKA220B | 16V 22U [M] | C346 | ECBT1H102KB5 | 50V 1000P [M] |
| R950 | ERDS2TJ101 | 1/4W 100 [M] | C128 | ECBT1H102KB5 | 50V 1000P [M] | C347 | ECBT1C682KR5 | 16V 6800P [M] |
| R951 | ERDS2TJ334 | 1/4W 330K [M] | C129, 130 | ECEA0JKA101B | 6.3V 100U [M] | C349 | ECBT1C332KR5 | 16V 3300P [M] |
| R952 | ERDS2TJ106T | 1/4W 10M [M] | C132 | ECBT1H102KB5 | 50V 1000P [M] | C350 | ECFRIC223KR | 16V 0.022U [M] |
| R953 | ERDS2TJ101 | 1/4W 100 [M] | C133, 134 | ECBT1H270JU5 | 50V 27P [M] | C352 | ECFRIC103KR | 16V 0.01U [M] |
| R954 | ERDS2TJ104 | 1/4W 100K [M] | C135, 136 | ECBT1C103KS5 | 16V 0.01U [M] | C353 | ECFRIC823MR | 16V 0.082U [M] |
| R955 | ERDS2TJ824 | 1/4W 820K [M] | C137, 138 | ECBT1H561KB5 | 50V 560P [M] | C355 | ECFRIC393KR | 16V 0.039U [M] |
| R956-958 | ERDS2TJ102 | 1/4W 1K [M] | C139, 140 | ECBT1C682KR5 | 16V 6800P [M] | C356 | ECEA1HKAR22B | 50V 0.22U [M] |
| R959 | ERDS2TJ471 | 1/4W 470 [M] | C141-144 | ECEA1HKA010B | 50V 1U [M] | C357, 358 | ECQV1H683JM3 | 50V 0.068U [M] |
| R960 | ERDS2TJ152 | 1/4W 1.5K [M] | C145 | ECBT1H220JG5 | 50V 22P [M] | C359 | RCE1HKA3R3BG | 50V 3.3U [M] |
| R961, 962 | ERDS2TJ223 | 1/4W 22K [M] | C148 | ECBT1C103NS5 | 16V 0.01U [M] | C360 | RCE1HKA4R7BG | 50V 4.7U [M] |
| R963, 964 | ERDS2TJ103 | 1/4W 10K [M] | C149 | ECBT1H104ZF5 | 50V 0.1U [M] | C364 | ECBT1C152KR5 | 16V 1500P [M] |
| R965 | ERDS2TJ472 | 1/4W 4.7K [M] | C171, 172 | ECBT1H102KB5 | 50V 1000P [M] | C365 | ECQV1H154JM3 | 50V 0.15U [M] |
| R966 | ERDS2TJ103 | 1/4W 10K [M] | C173 | ECEA1CKA220B | 16V 22U [M] | C372 | ECBT1H104ZF5 | 50V 0.1U [M] |
| R967 | ERDS2TJ473 | 1/4W 47K [M] | C174 | RCE1CKA100BG | 16V 10U [M] | C385, 386 | ECEA1HKAR22B | 50V 0.22U [M] |
| R968 | ERDS2TJ103 | 1/4W 10K [M] | C181 | ECBT1H471KB5 | 50V 470P [M] | C395, 396 | ECBT1H473ZF5 | 50V 0.047U [M] |
| R969, 970 | ERDS2TJ472 | 1/4W 4.7K [M] | C196 | ECBT1H102KB5 | 50V 1000P [M] | C501-506 | ECBT1H101KB5 | 50V 100P [M] |
| R971 | ERDS2TJ473 | 1/4W 47K [M] | C201, 202 | ECBT1H180J5 | 50V 18P [M] | C507, 508 | RCE1CKA100BG | 16V 10U [M] |
| R972 | ERDS2TJ223 | 1/4W 22K [M] | C219-226 | ECBT1H101KB5 | 50V 100P [M] | C509-512 | ECBT1E103ZF | 25V 0.01U [M] |
| R974 | ERDS2TJ101 | 1/4W 100 [M] | C229-234 | ECBT1H101KB5 | 50V 100P [M] | C513, 514 | ECBT1C103KS5 | 16V 0.01U [M] |
| R975 | ERDS2TJ181T | 1/4W 180 [M] | C235, 236 | ECBT1H104ZF5 | 50V 0.1U [M] | C551 | ECEA1HKA2R2B | 50V 2.2U [M] |
| R977-981 | ERDS2TJ104 | 1/4W 100K [M] | C301 | ECBT1H102KB5 | 50V 1000P [M] | C552 | ECBT1E103ZF | 25V 0.01U [M] |

| Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks |
|------------|--------------|------------------|-------------|--------------|------------------|
| C553 | ECEA1HKAR68B | 50V 0.68U [M] | C915 | ECBT1E103ZF | 25V 0.01U [M] |
| C554 | ECEA1AKA221B | 10V 220U [M] | C916 | ECA0JKF101B | 6.3V 100U [M] |
| C557, 558 | ECFR1C393KR | 16V 0.039U [M] | C917 | ECBT1E103ZF | 25V 0.01U [M] |
| C604, 605 | RCE1CKA100BG | 16V 10U [M] | C918 | ECEA0JKA221B | 6.3V 220U [M] |
| C607, 608 | ECBT1C122KR5 | 16V 1200P [M] | C919, 920 | ECEA1HKS2R2B | 50V 2.2U [M] |
| C613, 614 | ECBT1H150JC5 | 50V 15P [M] | C921 | ECBT1H102KB5 | 50V 1000P [M] |
| C615 | ECEA2AU010 | 100V 1U [M] | C922 | ECEA1VKA330B | 35V 33U [M] |
| C616 | ECA1JM330B | 63V 33U [M] | C1101, 1102 | ECBT1H473ZF5 | 50V 0.047U [M] |
| C617 | ECEA1HN2R2 | 50V 2.2U [M] | C1103-1106 | ECBT1H102KB5 | 50V 1000P [M] |
| C618 | ECA1HM101B | 50V 100U [M] | | | |
| C620, 621 | ECQV1H473JM3 | 50V 0.047U [M] | | | |
| C631, 632 | ECBT1H102KB5 | 50V 1000P [M] | | | |
| C633 | ECBT1C103KS5 | 16V 0.01U [M] | | | |
| C655 | ECEA2AU3R3B | 100V 3.3U [M] | | | |
| C656 | ECBT1E103ZF | 25V 0.01U [M] | | | |
| C657 | ECBT1H104ZF5 | 50V 0.1U [M] | | | |
| C701, 702△ | ECA1VM472E | 35V 4700U [M] | | | |
| C703, 704△ | ECA1VM332E | 35V 3300U [M] | | | |
| C705 | RCE1CKA100BG | 16V 10U [M] | | | |
| C706 | RCE1VKA100BG | 35V 10U [M] | | | |
| C707 | ECBT1E103ZF | 25V 0.01U [M] | | | |
| C708 | RCE1CKA100BG | 16V 10U [M] | | | |
| C709 | ECBT1H104ZF5 | 50V 0.1U [M] | | | |
| C710 | ECBT1E103ZF | 25V 0.01U [M] | | | |
| C711 | RCE1EM471BV | 25V 470U [M] | | | |
| C714 | ECBT1H102KB5 | 50V 1000P [M] | | | |
| C715△ | ECA1EM472E | 25V 4700U [M] | | | |
| C717 | ECEA1CKA330B | 16V 33U [M] | | | |
| C718 | RCE1AKA101BG | 10V 100U [M] | | | |
| C719, 720 | ECBT1E103ZF | 25V 0.01U [M] | | | |
| C721 | RCE1AKA101BG | 10V 100U [M] | | | |
| C723 | ECBT1E103ZF | 25V 0.01U [M] | | | |
| C725 | RCE1CKA100BG | 16V 10U [M] | | | |
| C726 | ECBT1E103ZF | 25V 0.01U [M] | | | |
| C731 | ECBT1H102KB5 | 50V 1000P [M] | | | |
| C732 | ECBT1E223ZF | 25V 0.022U [M] | | | |
| C734 | RCE1CKA100BG | 16V 10U [M] | | | |
| C736△ | ECA1EM101B | 25V 100U [M] | | | |
| C737, 738△ | ECA1HM101B | 50V 100U [M] | | | |
| C739△ | ECA1JM101B | 63V 100U [M] | | | |
| C740 | RCE1CKA100BG | 16V 10U [M] | | | |
| C741 | ECBT1H104ZF5 | 50V 0.1U [M] | | | |
| C901 | ECBT1H104ZF5 | 50V 0.1U [M] | | | |
| C902 | ECA0JM102B | 6.3V 1000U [M] | | | |
| C903 | ECBT1E103ZF | 25V 0.01U [M] | | | |
| C905-908 | ECBT1H471KB5 | 50V 470P [M] | | | |
| C909 | ECBT1H102KB5 | 50V 1000P [M] | | | |
| C910 | ECBT1H150JC5 | 50V 15P [M] | | | |
| C911 | ECBT1H180JC5 | 50V 18P [M] | | | |
| C912 | ECBT1H104ZF5 | 50V 0.1U [M] | | | |
| C913 | RCE1CKA100BG | 16V 10U [M] | | | |
| C914 | ECEA1HKA2R2B | 50V 2.2U [M] | | | |

■ Replacement Parts List (Electrical) [For (EG) and (EP) areas]

Notes: *Important safety notice:

Components identified by Δ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
 *The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
 Parts without these indications can be used for all areas.
 * [M] Indicates in Remarks columns parts that are supplied by MESA.

| Ref. No. | Part No. | Part Name & Description | Remarks | Ref. No. | Part No. | Part Name & Description | Remarks |
|----------------|--------------|-------------------------|---------|--------------------|--------------|-------------------------|---------|
| | | INTEGRATED CIRCUIT (S) | | Q725 Δ | 2SC3311AIRTA | TRANSISTOR | [M] |
| | | | | Q901 | UN4214TA | TRANSISTOR | [M] |
| | | | | Q902-904 | 2SC3311AIRTA | TRANSISTOR | [M] |
| | | | | Q905, 906 | UN411FTA | TRANSISTOR | [M] |
| | | | | | | DIODE (S) | |
| IC101 | LA1832MH-TEL | IC | [M] | D101 Δ | MA4051MTA | DIODE | [M] |
| IC102 | LC7218M-TE-L | IC | [M] | D102 | MA165 | DIODE | [M] |
| IC151 | LA2230M-TE-L | IC | [M] | D151 | MA4051MTA | DIODE | [M] |
| IC301 | M62433FP | IC | [M] | D152 | MA165 | DIODE | [M] |
| IC501 | M5218AP | IC | [M] | D331 | MA4051-L | DIODE | [M] |
| IC601 Δ | RSN308M24 | IC | [M] | D551, 552 | MA165 | DIODE | [M] |
| IC901 | M38193MC097F | IC | [M] | D555 | MA4100MTA | DIODE | [M] |
| | | TRANSISTOR (S) | | D558 | MA165 | DIODE | [M] |
| Q101, 102 | 2SC2787L | TRANSISTOR | [M] | D601, 602 | SB360L6508 | DIODE | [M] |
| Q103, 104 | 2SC2785FE | TRANSISTOR | [M] | D651 Δ | MA4200M | DIODE | [M] |
| Q106 | UN4111 | TRANSISTOR | [M] | D652, 653 Δ | MA4140M | DIODE | [M] |
| Q107, 108 | 2SC3311AR | TRANSISTOR | [M] | D657, 658 | MA165 | DIODE | [M] |
| Q110 | 2SC3311AR | TRANSISTOR | [M] | D701-704 Δ | 1N5402BF | DIODE | [M] |
| Q305, 306 | 2SC3311AIRTA | TRANSISTOR | [M] | D705-708 Δ | RL1N4003N02 | DIODE | [M] |
| Q307, 308 | 2SD2144S | TRANSISTOR | [M] | D709 | MA165 | DIODE | [M] |
| Q309, 310 | UN4115 | TRANSISTOR | [M] | D710 | MA4051MTA | DIODE | [M] |
| Q503 | 2SD1450RTA | TRANSISTOR | [M] | D711 | RL1N4003N02 | DIODE | [M] |
| Q551 | 2SA1309AIRTA | TRANSISTOR | [M] | D713, 714 Δ | MA1857A | DIODE | [M] |
| Q554 | 2SA1309AIRTA | TRANSISTOR | [M] | D715 | MA165 | DIODE | [M] |
| Q555 | 2SD2144S | TRANSISTOR | [M] | D717-720 Δ | RL1N4003N02 | DIODE | [M] |
| Q558 | 2SD2144S | TRANSISTOR | [M] | D721 Δ | MA4300M | DIODE | [M] |
| Q605 | 2SC3311AIRTA | TRANSISTOR | [M] | D723 Δ | MA4150M | DIODE | [M] |
| Q651 Δ | 2SB1238QRTV6 | TRANSISTOR | [M] | D724, 725 Δ | MA4082LTA | DIODE | [M] |
| Q652 | 2SD1859QRTV2 | TRANSISTOR | [M] | D727 Δ | MA4062-H | DIODE | [M] |
| Q654 | 2SD1859QRTV2 | TRANSISTOR | [M] | D730 Δ | MA4100MTA | DIODE | [M] |
| Q656 | 2SC3311AIRTA | TRANSISTOR | [M] | D732-736 | MA165 | DIODE | [M] |
| Q701 Δ | 2SD2374PQAU | TRANSISTOR | [M] | D737 Δ | MA4082LTA | DIODE | [M] |
| Q702 Δ | 2SB1548PQAU | TRANSISTOR | [M] | D738, 739 | MA165 | DIODE | [M] |
| Q703 Δ | 2SD2374PQAU | TRANSISTOR | [M] | D751, 752 Δ | 1N5402BF | DIODE | [M] |
| Q704 | UN4211 | TRANSISTOR | [M] | D753, 754 Δ | RL1N4003N02 | DIODE | [M] |
| Q707 Δ | 2SB621A-R | TRANSISTOR | [M] | D901, 902 | 1SS291TA | DIODE | [M] |
| Q708 Δ | 2SD2137PQTA | TRANSISTOR | [M] | D903, 904 | MA165 | DIODE | [M] |
| Q709 | 2SD2144S | TRANSISTOR | [M] | D905 | 1SS291TA | DIODE | [M] |
| Q711 | 2SB1417PQTA | TRANSISTOR | [M] | D906, 907 | MA165 | DIODE | [M] |
| Q712 Δ | 2SB1548PQAU | TRANSISTOR | [M] | D908 | SPR505MDTT | L. E. D. | [M] |
| Q718 | UN4111 | TRANSISTOR | [M] | D909 | MA165 | DIODE | [M] |
| Q719, 720 | 2SD1450RTA | TRANSISTOR | [M] | D931 | MA165 | DIODE | [M] |
| Q721 | 2SC3311AIRTA | TRANSISTOR | [M] | D933, 934 | MA165 | DIODE | [M] |
| Q722 | 2SA1309AIRTA | TRANSISTOR | [M] | D936 | MA165 | DIODE | [M] |
| Q723 Δ | 2SC3940AQSTA | TRANSISTOR | [M] | | | | |
| Q724 | UN4211 | TRANSISTOR | [M] | | | | |

| Ref. No. | Part No. | Part Name & Description | Remarks | Ref. No. | Part No. | Part Name & Description | Remarks |
|-----------|--------------|--------------------------|---------|-----------|--------------|-------------------------|---------|
| D943 | MA165 | DIODE | [M] | | | | |
| D971, 972 | MA165 | DIODE | [M] | F1△ | XBA2C12TB0 | FUSE | [M] |
| D973 | MA4039MTA | DIODE | [M] | | | SWITCH(ES) | |
| | | VARIABLE RESISTOR(S) | | | | | |
| VR151 | EVNDCBA03B53 | V. R | [M] | S901-914 | EVQ21405R | SW | [M] |
| VR901 | EVQVBFK124B | V. R | [M] | | | CONNECTOR(S) | |
| | | COMPONENT COMBINATION(S) | | CN201 | RJU057W010 | CONNECTOR (10P) | [M] |
| Z101 | RLA2Z002M-T | COMPONENT COMBINATION | [M] | CN203 | RJU057W012 | CONNECTOR (12P) | [M] |
| Z102 | RL12Z006M-T | COMPONENT COMBINATION | [M] | CN701-709 | RJS1A1101T1 | CONNECTOR (1P) | [M] |
| Z120 | RAL0019 | FM FRONT END | [M] | CN711-713 | RJS1A1101T1 | CONNECTOR (1P) | [M] |
| Z901 | RCDGP1U28XD | COMPONENT COMBINATION | [M] | CN715 | RJU057W012 | CONNECTOR (12P) | [M] |
| | | COIL (S) | | CN721 | RJS9T52A | CONNECTOR (9P) | [M] |
| L101 | ELESNR68MA | COIL | [M] | CN904 | RJS2A2105 | CONNECTOR (5P) | [M] |
| L103 | ELEXT47MA9 | COIL | [M] | CN101B | RJU057W007 | CONNECTOR (7P) | [M] |
| L104 | ELEXT1R0KA9 | COIL | [M] | CN102B | RJU057W007 | CONNECTOR (7P) | [M] |
| L105, 106 | ELELN822KL | COIL | [M] | CN501B | RJU057W007 | CONNECTOR (7P) | [M] |
| L151 | SLM1B10M-1M | COIL | [M] | CP103B | RJT057W007-1 | CONNECTOR (7P) | [M] |
| L161 | ELEXT101KA9 | COIL | [M] | CP201 | RJT057W010-1 | CONNECTOR (10P) | [M] |
| L191 | ELESNR68MA | COIL | [M] | CP203 | RJT057W012-1 | CONNECTOR (12P) | [M] |
| L601, 602 | SLQY07G-40 | COIL | [M] | CP715 | RJT057W012-1 | CONNECTOR (12P) | [M] |
| L701△ | RLQZ271M-K | COIL | [M] | CP101B | RJT057W007-1 | CONNECTOR (7P) | [M] |
| L901 | RLQA100JT-Y | COIL | [M] | CP102B | RJT057W007-1 | CONNECTOR (7P) | [M] |
| | | TRANSFORMER (S) | | | | EARTH TERMINAL (S) | |
| T501△ | RTP2N5B009 | POWER TRANSFORMER | [M] | E601 | SNE1004-2 | EARTH TERMINAL | [M] |
| | | FILTER(S) | | E603 | SNE1004-2 | EARTH TERMINAL | [M] |
| CF201 | RLFFETNGD01L | CERAMIC FILTER | [M] | | | FUSE HOLDER(S) | |
| CF202 | RLFFETMGD01L | CERAMIC FILTER | [M] | FC1, 2 | EYF52BC | FUSE HOLDER | [M] |
| | | OSCILLATOR(S) | | | | RELAY (S) | |
| X101 | RSXZ456K07M | OSCILLATOR | [M] | RL701△ | RSY0030-C | RELAY | [M] |
| X102 | RLFDGT05DD | OSCILLATOR | [M] | | | JACK(S) | |
| X103 | RSXC7M20S05T | OSCILLATOR | [M] | JK101 | RJH5210M | ANTENNA | [M] |
| X151 | RSXZ456K07M | OSCILLATOR | [M] | JK201 | RJT065K19 | SYSTEM | [M] |
| X901 | EFOEC6004T4 | OSCILLATOR | [M] | JK203 | SJF3068-7N | EXT IN | [M] |
| X902 | RSXD32K7S02 | OSCILLATOR | [M] | JK204 | SJF3069-5N | PHONO/EXT OUT | [M] |
| | | DISPLAY TUBE | | JK501 | RJR9054M | SPEAKERS | [M] |
| FL901 | BSL0234-F | DISPLAY TUBE | [M] | JK701△ | SJS9236 | AC INLET | [M] |
| | | FUSE (S) | | JK903 | RJJ37TN01-C | HEADPHONES | [M] |
| | | | | | | FUSE (S) | |
| | | | | F1△ | XBA2C12TB0S | FUSE | [M] |

Resistors and Capacitors [For (EG) and (EP) areas]

Notes : * Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

| Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks |
|-----------|-------------|------------------|------------|--------------|------------------|-----------|--------------|------------------|
| | | RESISTORS | R164 | ERDS2TJ332 | 1/4W 3.3K [M] | R365 | ERDS2TJ223 | 1/4W 22K [M] |
| | | | R171, 172 | ERDS2TJ102 | 1/4W 1K [M] | R380 | ERDS2TJ153 | 1/4W 15K [M] |
| | | | R173 | ERDS2TJ471 | 1/4W 470 [M] | R503, 504 | ERDS2TJ333 | 1/4W 33K [M] |
| R103 | ERDS2TJ101 | 1/4W 100 [M] | R175 | ERDS2TJ102 | 1/4W 1K [M] | R505, 506 | ERDS2TJ153 | 1/4W 15K [M] |
| R104 | ERDS2TJ103 | 1/4W 10K [M] | R176 | ERDS2TJ391 | 1/4W 390 [M] | R507, 508 | ERDS2TJ332 | 1/4W 3.3K [M] |
| R105 | ERDS2TJ471 | 1/4W 470 [M] | R177 | ERDS2TJ472 | 1/4W 4.7K [M] | R509-512 | ERDS2TJ560T | 1/4W 56 [M] |
| R106 | ERDS2TJ474 | 1/4W 470K [M] | R201, 202△ | ERDS2FJ752 | 1/4W 7.5K [M] | R513, 514 | ERDS2TJ103 | 1/4W 10K |
| R107 | ERDS2TJ331 | 1/4W 330 [M] | R217, 218 | ERDS2TJ562 | 1/4W 5.6K [M] | R551 | ERDS2TJ183T | 1/4W 18K [M] |
| R108 | ERDS2TJ474 | 1/4W 470K [M] | R221, 222 | ERDS2FJ752 | 1/4W 7.5K [M] | R552 | ERDS2TJ473 | 1/4W 47K [M] |
| R109 | ERDS2TJ331 | 1/4W 330 [M] | R223, 224 | ERDS2TJ562 | 1/4W 5.6K [M] | R555 | ERDS2TJ223 | 1/4W 22K [M] |
| R110 | ERDS2TJ102 | 1/4W 1K [M] | R225, 226 | ERDS2TJ104 | 1/4W 100K [M] | R556 | ERDS2TJ104 | 1/4W 100K [M] |
| R112 | ERDS2TJ104 | 1/4W 100K [M] | R227, 228 | ERDS2TJ222 | 1/4W 2.2K [M] | R557 | ERDS2TJ103 | 1/4W 10K [M] |
| R113 | ERDS2TJ103 | 1/4W 10K [M] | R229, 230 | ERDS2TJ822 | 1/4W 8.2K [M] | R558 | ERDS2TJ102 | 1/4W 1K [M] |
| R114 | ERDS2TJ562 | 1/4W 5.6K [M] | R231-234 | ERDS2TJ682T | 1/4W 6.8K [M] | R559 | ERDS2TJ472 | 1/4W 4.7K [M] |
| R115 | ERDS2TJ561 | 1/4W 560 [M] | R235, 236 | ERDS2TJ102 | 1/4W 1K [M] | R561 | ERDS2TJ104 | 1/4W 100K [M] |
| R116 | ERDS2TJ102 | 1/4W 1K [M] | R239-242 | ERDS2TJ102 | 1/4W 1K [M] | R562 | ERDS2TJ102 | 1/4W 1K [M] |
| R117 | ERDS2TJ823T | 1/4W 82K [M] | R243, 244 | ERDS2TJ152 | 1/4W 1.5K [M] | R563 | ERDS2TJ332 | 1/4W 3.3K [M] |
| R118 | ERDS2TJ472 | 1/4W 4.7K [M] | R245, 246 | ERDS2TJ332 | 1/4W 3.3K [M] | R564 | ERDS2TJ273 | 1/4W 27K [M] |
| R119 | ERDS2TJ103 | 1/4W 10K [M] | R249, 250 | ERDS2TJ101 | 1/4W 100 [M] | R570 | ERDS2TJ335T | 1/4W 3.3M [M] |
| R120 | ERDS2TJ473 | 1/4W 47K [M] | R251 | ERDS2TJ222 | 1/4W 2.2K [M] | R591 | ERDS2TJ473 | 1/4W 47K [M] |
| R121 | ERDS2TJ332 | 1/4W 3.3K [M] | R253, 254 | ERDS2TJ104 | 1/4W 100K [M] | R604, 605 | ERDS2TJ103 | 1/4W 10K [M] |
| R122 | ERDS2TJ272T | 1/4W 2.7K [M] | R255, 256 | ERDS2TJ123 | 1/4W 12K [M] | R619, 620 | ERDS2TJ563 | 1/4W 56K [M] |
| R124 | ERDS2TJ271 | 1/4W 270 [M] | R257, 258 | ERDS2TJ562 | 1/4W 5.6K [M] | R623 | ERDS2TJ684 | 1/4W 680K [M] |
| R125, 126 | ERDS2TJ152 | 1/4W 1.5K [M] | R261, 262△ | ERD25FVJ1R0T | 1/4W 1.0 [M] | R624 | ERDS2TJ223 | 1/4W 22K [M] |
| R127 | ERDS2TJ103 | 1/4W 10K [M] | R301 | ERDS2TJ223 | 1/4W 22K [M] | R628 | ERDS2TJ184T | 1/4W 180K [M] |
| R128 | ERDS2TJ820 | 1/4W 82 [M] | R302 | ERDS2TJ472 | 1/4W 4.7K [M] | R629, 630 | ERDS2TJ100 | 1/4W 10 [M] |
| R129 | ERDS2TJ473 | 1/4W 47K [M] | R303, 304 | ERDS2TJ222 | 1/4W 2.2K [M] | R631 | ERDS2TJ224T | 1/4W 220K [M] |
| R130 | ERDS2TJ103 | 1/4W 10K [M] | R305, 306 | ERDS2TJ152 | 1/4W 1.5K [M] | R632, 633 | ERDS2TJ563 | 1/4W 56K [M] |
| R132 | ERDS2TJ103 | 1/4W 10K [M] | R307, 308 | ERDS2TJ104 | 1/4W 100K [M] | R637 | ERDS2TJ154 | 1/4W 150K [M] |
| R133-137 | ERDS2TJ102 | 1/4W 1K [M] | R309, 310 | ERDS2TJ102 | 1/4W 1K [M] | R638 | ERDS2TJ684 | 1/4W 680K [M] |
| R138 | ERDS2TJ103 | 1/4W 10K [M] | R311, 312 | ERDS2TJ104 | 1/4W 100K [M] | R639-642△ | ERDS1FJ100 | 1/2W 10 [M] |
| R139, 140 | ERDS2TJ272T | 1/4W 2.7K [M] | R313, 314 | ERDS2EJ121 | 1/4W 120 [M] | R647, 648 | ERQ16NKWR15E | 1/6W 0.15 [M] |
| R141, 142 | ERDS2TJ102 | 1/4W 1K [M] | R315 | ERDS2TJ104 | 1/4W 100K [M] | R651 | ERDS2TJ222 | 1/4W 2.2K [M] |
| R143, 144 | ERDS2TJ222 | 1/4W 2.2K [M] | R316 | ERDS2TJ222 | 1/4W 2.2K [M] | R654 | ERDS2TJ222 | 1/4W 2.2K [M] |
| R145, 146 | ERDS2TJ821 | 1/4W 820 [M] | R317 | ERDS2TJ105T | 1/4W 1M [M] | R655, 656 | ERDS2TJ183T | 1/4W 18K [M] |
| R147, 148 | ERDS2TJ474 | 1/4W 470K [M] | R318 | ERDS2TJ153 | 1/4W 15K [M] | R667 | ERDS2TJ331 | 1/4W 330 [M] |
| R149 | ERDS2TJ680T | 1/4W 68 [M] | R324 | ERDS2TJ223 | 1/4W 22K [M] | R701, 702 | ERDS2TJ273 | 1/4W 27K [M] |
| R151 | ERDS2TJ564 | 1/4W 560K [M] | R326 | ERDS2TJ332 | 1/4W 3.3K [M] | R703, 704 | ERDS2TJ101 | 1/4W 100 [M] |
| R152 | ERDS2TJ102 | 1/4W 1K [M] | R327 | ERDS2TJ392T | 1/4W 3.9K [M] | R707△ | ERD25FVJ4R7T | 1/4W 4.7 [M] |
| R153 | ERDS2TJ155 | 1/4W 1.5M [M] | R328 | ERDS2TJ332 | 1/4W 3.3K [M] | R708 | ERDS2TJ472 | 1/4W 4.7K [M] |
| R154 | ERDS2TJ102 | 1/4W 1K [M] | R329 | ERDS2TJ103 | 1/4W 10K [M] | R712 | ERDS2TJ152 | 1/4W 1.5K [M] |
| R155 | ERDS2TJ562 | 1/4W 5.6K [M] | R330 | ERDS2TJ332 | 1/4W 3.3K [M] | R713, 714 | ERDS2TJ332 | 1/4W 3.3K [M] |
| R156 | ERDS2TJ471 | 1/4W 470 [M] | R331 | ERDS2TJ102 | 1/4W 1K [M] | R715 | ERDS2TJ183T | 1/4W 18K [M] |
| R157 | ERDS2TJ820 | 1/4W 82 [M] | R332-334 | ERDS2TJ222 | 1/4W 2.2K [M] | R717 | ERDS2TJ473 | 1/4W 47K [M] |
| R158 | ERDS2TJ103 | 1/4W 10K [M] | R335, 336 | ERDS2TJ683 | 1/4W 68K [M] | R721△ | ERD2FCJ4R7 | 1/4W 4.7 [M] |
| R159 | ERDS2TJ104 | 1/4W 100K [M] | R338 | ERDS2TJ392T | 1/4W 3.9K [M] | R722△ | ERQ16NKW2R2E | 1/6W 2.2 [M] |
| R160, 161 | ERDS2TJ102 | 1/4W 1K [M] | R343 | ERDS2TJ334 | 1/4W 330K [M] | R723 | ERDS2TJ562 | 1/4W 5.6K [M] |
| R162 | ERDS2TJ103 | 1/4W 10K [M] | R360 | ERDS2TJ223 | 1/4W 22K [M] | R724 | ERDS2TJ152 | 1/4W 1.5K [M] |
| R163 | ERDS2TJ223 | 1/4W 22K [M] | R364 | ERDS2TJ103 | 1/4W 10K [M] | R725, 726 | ERDS2TJ100 | 1/4W 10 [M] |

| Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks |
|------------|--------------|------------------|-----------|--------------|------------------|-----------|--------------|------------------|
| R727 | ERDS2TJ152 | 1/4W 1.5K [M] | R959 | ERDS2TJ471 | 1/4W 470 [M] | C141-144 | ECEA1HKA010B | 50V 1U [M] |
| R729 | ERDS2TJ221 | 1/4W 220 [M] | R960 | ERDS2TJ152 | 1/4W 1.5K [M] | C145 | ECBT1H220JC5 | 50V 22P [M] |
| R735△ | ERD25FVJ4R7T | 1/4W 4.7 [M] | R961, 962 | ERDS2TJ223 | 1/4W 22K [M] | C148 | ECBT1C103NS5 | 16V 0.01U [M] |
| R736 | ERDS2TJ102 | 1/4W 1K [M] | R963, 964 | ERDS2TJ103 | 1/4W 10K [M] | C149 | ECBT1H104ZF5 | 50V 0.1U [M] |
| R737 | ERDS2TJ221 | 1/4W 220 [M] | R965 | ERDS2TJ472 | 1/4W 4.7K [M] | C151 | ECEA0JKA101B | 6.3V 100U [M] |
| R738 | ERDS2TJ392T | 1/4W 3.9K [M] | R966 | ERDS2TJ103 | 1/4W 10K [M] | C152 | ECEA1CKA220B | 16V 22U [M] |
| R739 | ERDS2TJ473 | 1/4W 47K [M] | R967 | ERDS2TJ473 | 1/4W 47K [M] | C153, 154 | ECBT1C332KR5 | 16V 3300P [M] |
| R748 | ERDS2TJ102 | 1/4W 1K [M] | R968 | ERDS2TJ103 | 1/4W 10K [M] | C155 | ECBT1C103KS5 | 16V 0.01U [M] |
| R749 | ERDS2TJ271 | 1/4W 270 [M] | R969, 970 | ERDS2TJ472 | 1/4W 4.7K [M] | C156 | ECBT1H102KB5 | 50V 1000P [M] |
| R755△ | ERDS1FVJ8R2T | 1/2W 8.2 [M] | R971 | ERDS2TJ473 | 1/4W 47K [M] | C157 | RCE1CKA100BG | 16V 10U [M] |
| R756△ | ERDS1FJ4R7 | 1/2W 4.7 [M] | R972 | ERDS2TJ223 | 1/4W 22K [M] | C158 | ECEA1EKA4R7B | 25V 4.7U [M] |
| R757-759 | ERDS2TJ103 | 1/4W 10K [M] | R974 | ERDS2TJ101 | 1/4W 100 [M] | C159 | RCE1CKA100BG | 16V 10U [M] |
| R761, 762 | ERDS2TJ822 | 1/4W 8.2K [M] | R975 | ERDS2TJ181T | 1/4W 180 [M] | C160 | ECFR1C223KR | 16V 0.022U [M] |
| R763 | ERDS2TJ472 | 1/4W 4.7K [M] | R977-981 | ERDS2TJ104 | 1/4W 100K [M] | C161 | ECFR1C333KR | 16V 0.033U [M] |
| R764 | ERDS2TJ331 | 1/4W 330 [M] | R984, 985 | ERDS2TJ473 | 1/4W 47K [M] | C162 | ECBT1C682KR5 | 16V 6800P [M] |
| R765△ | ERDS1FVJ561T | 1/2W 560 [M] | R986-988 | ERDS2TJ102 | 1/4W 1K [M] | C163 | ECFR1C333KR | 16V 0.033U [M] |
| R766 | ERDS2TJ102 | 1/4W 1K [M] | R989, 990 | ERDS2TJ393 | 1/4W 39K [M] | C164 | ECBT1H102KB5 | 50V 1000P [M] |
| R767△ | ERD2FCJ4R7 | 1/4W 4.7 [M] | R991 | ERDS2TJ473 | 1/4W 47K [M] | C165 | ECEA1EKA4R7B | 25V 4.7U [M] |
| R768 | ERDS2TJ101 | 1/4W 100 [M] | R993, 994 | ERDS2TJ104 | 1/4W 100K [M] | C171, 172 | ECBT1H102KB5 | 50V 1000P [M] |
| R791, 792△ | RSFMB30KT-L | PROTECTOR [M] | R996, 997 | ERDS2TJ151 | 1/4W 150 [M] | C173 | ECEA1CKA220B | 16V 22U [M] |
| R901 | ERDS2TJ821 | 1/4W 820 [M] | | | | C174 | RCE1CKA100BG | 16V 10U [M] |
| R902 | ERDS2TJ102 | 1/4W 1K [M] | | | CAPACITORS | C181 | ECBT1H471KB5 | 50V 470P [M] |
| R903 | ERDS2TJ122 | 1/4W 1.2K [M] | | | | C196 | ECBT1H102KB5 | 50V 1000P [M] |
| R904 | ERDS2TJ152 | 1/4W 1.5K [M] | C101 | ECBT1C103NS5 | 16V 0.01U [M] | C201, 202 | ECBT1H180J5 | 50V 18P [M] |
| R905 | ERDS2TJ182 | 1/4W 1.8K [M] | C103 | ECBT1C103NS5 | 16V 0.01U [M] | C219-226 | ECBT1H101KB5 | 50V 100P [M] |
| R906 | ERDS2TJ222 | 1/4W 2.2K [M] | C104, 105 | ECBT1H102KB5 | 50V 1000P [M] | C229-234 | ECBT1H101KB5 | 50V 100P [M] |
| R907 | ERDS2TJ272T | 1/4W 2.7K [M] | C106 | ECBT1C103NS5 | 16V 0.01U [M] | C235, 236 | ECBT1H104ZF5 | 50V 0.1U [M] |
| R908 | ERDS2TJ472 | 1/4W 4.7K [M] | C107 | ECBT1H473ZF5 | 50V 0.047U [M] | C301 | ECBT1H102KB5 | 50V 1000P [M] |
| R909 | ERDS2TJ682T | 1/4W 6.8K [M] | C108 | ECBT1H8R2KC5 | 50V 8.2P [M] | C302, 303 | ECBT1H561KB5 | 50V 560P [M] |
| R910 | ERDS2TJ123 | 1/4W 12K [M] | C109, 110 | ECBT1C103NS5 | 16V 0.01U [M] | C309 | ECEA1HKAR22B | 50V 0.22U [M] |
| R911 | ERDS2TJ223 | 1/4W 22K [M] | C111 | ECEA1EKA4R7B | 25V 4.7U [M] | C310 | ECFR1C393KR | 16V 0.039U [M] |
| R912 | ERDS2TJ821 | 1/4W 820 [M] | C112 | ECBT1C103NS5 | 16V 0.01U [M] | C312 | ECFR1C923MR | 16V 0.082U [M] |
| R919-923 | ERDS2TJ103 | 1/4W 10K [M] | C113 | ECBT1H102KB5 | 50V 1000P [M] | C313 | ECFR1C103KR | 16V 0.01U [M] |
| R924-927 | ERDS2TJ102 | 1/4W 1K [M] | C114 | RCE1HKA3R3BG | 50V 3.3U [M] | C315 | ECFR1C223KR | 16V 0.022U [M] |
| R929 | ERDS2TJ102 | 1/4W 1K [M] | C115 | ECEA1EKA4R7B | 25V 4.7U [M] | C316 | ECBT1C332KR5 | 16V 3300P [M] |
| R930 | ERDS2TJ101 | 1/4W 100 [M] | C116 | ECBT1C682KS5 | 16V 8200P [M] | C318 | ECBT1C682KR5 | 16V 6800P [M] |
| R931-936 | ERDS2TJ102 | 1/4W 1K [M] | C117 | ECQP1391JZ | 100V 390P [M] | C319 | ECBT1H102KB5 | 50V 1000P [M] |
| R937 | ERDS2TJ562 | 1/4W 5.6K [M] | C118, 119 | ECFR1C103KR | 16V 0.01U [M] | C320 | ECBA1H681KB5 | 50V 680P [M] |
| R938 | ERDS2TJ102 | 1/4W 1K [M] | C120, 121 | ECEA1HKA010B | 50V 1U [M] | C321 | ECBT1C332KR5 | 16V 3300P [M] |
| R939 | ERDS2TJ152 | 1/4W 1.5K [M] | C122 | ECEA1HKA2R2B | 50V 2.2U [M] | C322 | ECQV1H333JM3 | 50V 0.033U [M] |
| R940, 941 | ERDS2TJ102 | 1/4W 1K [M] | C123 | ECEA1HKA010B | 50V 1U [M] | C324 | ECFR1C683KR | 16V 0.068U [M] |
| R942 | ERDS2TJ101 | 1/4W 100 [M] | C124 | ECBT1H102KB5 | 50V 1000P [M] | C325 | ECQV1H154JM3 | 50V 0.15U [M] |
| R943 | ERDS2TJ102 | 1/4W 1K [M] | C125 | ECBT1H150JC5 | 50V 15P [M] | C326 | ECBT1H102KB5 | 50V 1000P [M] |
| R946 | ERDS2TJ102 | 1/4W 1K [M] | C126 | ECBT1H473ZF5 | 50V 0.047U [M] | C327 | ECBT1H471KB5 | 50V 470P [M] |
| R949 | ERDS2TJ472 | 1/4W 4.7K [M] | C127 | ECEA1CKA220B | 16V 22U [M] | C328 | RCE1CKA470BG | 16V 47U [M] |
| R950 | ERDS2TJ101 | 1/4W 100 [M] | C128 | ECBT1H102KB5 | 50V 1000P [M] | C329 | ECEA1HKA2R2B | 50V 2.2U [M] |
| R951 | ERDS2TJ334 | 1/4W 330K [M] | C129, 130 | ECEA0JKA101B | 6.3V 100U [M] | C330 | ECBA1H681KB5 | 50V 680P [M] |
| R952 | ERDS2TJ106T | 1/4W 10M [M] | C132 | ECBT1H102KB5 | 50V 1000P [M] | C331 | ECBT1H104ZF5 | 50V 0.1U [M] |
| R953 | ERDS2TJ101 | 1/4W 100 [M] | C133, 134 | ECBT1H270JU5 | 50V 27P [M] | C332-334 | ECBT1H470J5 | 50V 47P [M] |
| R954 | ERDS2TJ104 | 1/4W 100K [M] | C135, 136 | ECBT1C103KS5 | 16V 0.01U [M] | C336 | ECBT1H104ZF5 | 50V 0.1U [M] |
| R955 | ERDS2TJ824 | 1/4W 820K [M] | C137, 138 | ECBT1H561KB5 | 50V 560P [M] | C337 | RCE1CKA470BG | 16V 47U [M] |
| R956-958 | ERDS2TJ102 | 1/4W 1K [M] | C139, 140 | ECBT1C682KR5 | 16V 6800P [M] | C338 | ECBT1H471KB5 | 50V 470P [M] |

| Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks | | | |
|------------|--------------|------------------|-------------|--------------|------------------|--|--|--|
| C339 | ECBT1H102KB5 | 50V 1000P [M] | C714 | ECBT1H102KB5 | 50V 1000P [M] | | | |
| C340 | ECQV1H154JM3 | 50V 0.15U [M] | C715△ | ECA1EM472E | 25V 4700U [M] | | | |
| C341 | ECFR1C683KR | 16V 0.068U [M] | C717 | ECEA1CKA330B | 16V 33U [M] | | | |
| C342 | ECQV1H333JM3 | 50V 0.033U [M] | C718 | RCE1AKA101BG | 10V 100U [M] | | | |
| C343 | ECEA1HKA2R2B | 50V 2.2U [M] | C719, 720 | ECBT1E103ZF | 25V 0.01U [M] | | | |
| C344 | ECBT1C332KR5 | 16V 3300P [M] | C721 | RCE1AKA101BG | 10V 100U [M] | | | |
| C346 | ECBT1H102KB5 | 50V 1000P [M] | C723 | ECBT1E103ZF | 25V 0.01U [M] | | | |
| C347 | ECBT1C682KR5 | 16V 6800P [M] | C725 | RCE1CKA100BG | 16V 10U [M] | | | |
| C349 | ECBT1C332KR5 | 16V 3300P [M] | C726 | ECBT1E103ZF | 25V 0.01U [M] | | | |
| C350 | ECFR1C223KR | 16V 0.022U [M] | C731 | ECBT1H102KB5 | 50V 1000P [M] | | | |
| C352 | ECFR1C103KR | 16V 0.01U [M] | C732 | ECBT1E223ZF | 25V 0.022U [M] | | | |
| C353 | ECFR1C823MR | 16V 0.082U [M] | C734 | RCE1CKA100BG | 16V 10U [M] | | | |
| C355 | ECFR1C393KR | 16V 0.039U [M] | C736△ | ECA1EM101B | 25V 100U [M] | | | |
| C356 | ECEA1HKA2R2B | 50V 0.22U [M] | C737, 738△ | ECA1HM101B | 50V 100U [M] | | | |
| C357, 358 | ECQV1H683JM3 | 50V 0.068U [M] | C739△ | ECA1JM101B | 63V 100U [M] | | | |
| C359 | RCE1HKA3R3BG | 50V 3.3U [M] | C740 | RCE1CKA100BG | 16V 10U [M] | | | |
| C360 | RCE1HKA4R7BG | 50V 4.7U [M] | C741 | ECBT1H104ZF5 | 50V 0.1U [M] | | | |
| C364 | ECBT1C152KR5 | 16V 1500P [M] | C901 | ECBT1H104ZF5 | 50V 0.1U [M] | | | |
| C365 | ECQV1H154JM3 | 50V 0.15U [M] | C902 | ECA0JM102B | 6.3V 1000U [M] | | | |
| C372 | ECBT1H104ZF5 | 50V 0.1U [M] | C903 | ECBT1E103ZF | 25V 0.01U [M] | | | |
| C385, 386 | ECEA1HKA2R2B | 50V 0.22U [M] | C905-908 | ECBT1H471KB5 | 50V 470P [M] | | | |
| C395, 396 | ECBT1H473ZF5 | 50V 0.047U [M] | C909 | ECBT1H102KB5 | 50V 1000P [M] | | | |
| C501-506 | ECBT1H101KB5 | 50V 100P [M] | C910 | ECBT1H150JC5 | 50V 15P [M] | | | |
| C507, 508 | RCE1CKA100BG | 16V 10U [M] | C911 | ECBT1H180JC5 | 50V 18P [M] | | | |
| C509-512 | ECBT1E103ZF | 25V 0.01U [M] | C912 | ECBT1H104ZF5 | 50V 0.1U [M] | | | |
| C551 | ECEA1HKA2R2B | 50V 2.2U [M] | C913 | RCE1CKA100BG | 16V 10U [M] | | | |
| C552 | ECBT1E103ZF | 25V 0.01U [M] | C914 | ECEA1HKA2R2B | 50V 2.2U [M] | | | |
| C553 | ECEA1HKA68B | 50V 0.68U [M] | C915 | ECBT1E103ZF | 25V 0.01U [M] | | | |
| C554 | ECA1AM221B | 10V 220U [M] | C916 | ECA0JKF101B | 6.3V 100U [M] | | | |
| C557, 558 | ECFR1C393KR | 16V 0.039U [M] | C917 | ECBT1E103ZF | 25V 0.01U [M] | | | |
| C604, 605 | RCE1CKA100BG | 16V 10U [M] | C918 | ECEA0JKA221B | 6.3V 220U [M] | | | |
| C607, 608 | ECBT1C122KR5 | 16V 1200P [M] | C919, 920 | ECEA1HKS2R2B | 50V 2.2U [M] | | | |
| C613, 614 | ECBT1H150JC5 | 50V 15P [M] | C921 | ECBT1H102KB5 | 50V 1000P [M] | | | |
| C615 | ECEA2AU010 | 100V 1U [M] | C922 | ECEA1VKA330B | 35V 33U [M] | | | |
| C616 | ECALJM330B | 63V 33U [M] | C1101, 1102 | ECBT1H473ZF5 | 50V 0.047U [M] | | | |
| C617 | ECEA1HKNR47B | 50V 0.47U [M] | C1103-1106 | ECBT1H102KB5 | 50V 1000P [M] | | | |
| C618 | ECA1HM101B | 50V 100U [M] | | | | | | |
| C620, 621 | ECQV1H473JM3 | 50V 0.047U [M] | | | | | | |
| C631, 632 | ECBT1H102KB5 | 50V 1000P [M] | | | | | | |
| C633 | ECBT1C103KS5 | 16V 0.01U [M] | | | | | | |
| C655 | ECEA2AU3R3B | 100V 3.3U [M] | | | | | | |
| C656 | ECBT1E103ZF | 25V 0.01U [M] | | | | | | |
| C657 | ECBT1H104ZF5 | 50V 0.1U [M] | | | | | | |
| C701, 702△ | ECA1VM472E | 35V 4700U [M] | | | | | | |
| C703, 704△ | ECA1VM332E | 35V 3300U [M] | | | | | | |
| C705 | RCE1CKA100BG | 16V 10U [M] | | | | | | |
| C706 | RCE1VKA100BG | 35V 10U [M] | | | | | | |
| C707 | ECBT1E103ZF | 25V 0.01U [M] | | | | | | |
| C708 | RCE1CKA100BG | 16V 10U [M] | | | | | | |
| C709 | ECBT1H104ZF5 | 50V 0.1U [M] | | | | | | |
| C710 | ECBT1E103ZF | 25V 0.01U [M] | | | | | | |
| C711 | RCE1EM471BV | 25V 470U [M] | | | | | | |

■ Replacement Parts List (Electrical) [For (GC) area]

Notes: *Important safety notice:

 Components identified by Δ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)

Parts without these indications can be used for all areas.

* [M] Indicates in Remarks columns parts that are supplied by MESA.

| Ref. No. | Part No. | Part Name & Description | Remarks | Ref. No. | Part No. | Part Name & Description | Remarks |
|----------------|--------------|-------------------------|---------|--------------------|--------------|-------------------------|---------|
| | | INTEGRATED CIRCUIT(S) | | Q721 | 2SC3311AIRTA | TRANSISTOR | [M] |
| | | | | Q722 | 2SA1309AIRTA | TRANSISTOR | [M] |
| | | | | Q723 Δ | 2SC3940AQSTA | TRANSISTOR | [M] |
| IC101 | LA1832MH-TEL | IC | [M] | Q724 | UN4211 | TRANSISTOR | [M] |
| IC102 | LC7218M-TE-L | IC | [M] | Q725 Δ | 2SC3311AIRTA | TRANSISTOR | [M] |
| IC301 | M62433FP | IC | [M] | Q801, 802 | 2SD1450RTA | TRANSISTOR | [M] |
| IC401 | TA2011S | IC | [M] | Q803, 804 | UN4115 | TRANSISTOR | [M] |
| IC402 | BU9255FS-E2 | IC | [M] | Q805, 806 | 2SD1450RTA | TRANSISTOR | [M] |
| IC501 | M5218AP | IC | [M] | Q807 | UN4115 | TRANSISTOR | [M] |
| IC601 Δ | RSN307M42 | IC | [M] | Q811, 812 Δ | 2SD2137PQTA | TRANSISTOR | [M] |
| IC801 | LV1030 | IC | [M] | Q901 | UN4214TA | TRANSISTOR | [M] |
| IC803 | M62425FPE1 | IC | [M] | Q902-904 | 2SC3311AIRTA | TRANSISTOR | [M] |
| IC901 | M38198MCO99F | IC | [M] | Q905, 906 | UN411FTA | TRANSISTOR | [M] |
| | | TRANSISTOR(S) | | | | DIODE(S) | |
| Q101, 102 | 2SC2787L | TRANSISTOR | [M] | D101 Δ | MA4051MTA | DIODE | [M] |
| Q103, 104 | 2SC2785FE | TRANSISTOR | [M] | D102 | MA165 | DIODE | [M] |
| Q106 | UN411FTA | TRANSISTOR | [M] | D303 | MA165 | DIODE | [M] |
| Q107, 108 | 2SC3311AR | TRANSISTOR | [M] | D331 | MA4051-L | DIODE | [M] |
| Q301 | 2SD2144S | TRANSISTOR | [M] | D401 | MA165 | DIODE | [M] |
| Q305, 306 | 2SC3311AIRTA | TRANSISTOR | [M] | D402 | MA4051MTA | DIODE | [M] |
| Q307, 308 | 2SD2144S | TRANSISTOR | [M] | D551, 552 | MA165 | DIODE | [M] |
| Q309, 310 | UN4115 | TRANSISTOR | [M] | D553 | MA700TA | DIODE | [M] |
| Q401 | 2SC3311AIRTA | TRANSISTOR | [M] | D554 | MA165 | DIODE | [M] |
| Q503 | 2SD1450RTA | TRANSISTOR | [M] | D555 | MA4100MTA | DIODE | [M] |
| Q551 | 2SA1309AIRTA | TRANSISTOR | [M] | D557, 558 | MA165 | DIODE | [M] |
| Q553 | 2SD2144S | TRANSISTOR | [M] | D559, 560 | MA4020LTA | DIODE | [M] |
| Q554 | 2SA1309AIRTA | TRANSISTOR | [M] | D601, 602 | SB350L6508 | DIODE | [M] |
| Q555 | 2SD2144S | TRANSISTOR | [M] | D657, 658 | MA165 | DIODE | [M] |
| Q556 | 2SC3311AIRTA | TRANSISTOR | [M] | D701-704 Δ | 1N5402BF | DIODE | [M] |
| Q557 | 2SA1309AIRTA | TRANSISTOR | [M] | D705-708 Δ | RL1N4003N02 | DIODE | [M] |
| Q558 | 2SD2144S | TRANSISTOR | [M] | D709 | MA165 | DIODE | [M] |
| Q603-605 | 2SC3311AIRTA | TRANSISTOR | [M] | D710 | MA4051MTA | DIODE | [M] |
| Q656 | 2SC3311AIRTA | TRANSISTOR | [M] | D711 | RL1N4003N02 | DIODE | [M] |
| Q701 Δ | 2SD2374PQAU | TRANSISTOR | [M] | D713, 714 Δ | MA165TA | DIODE | [M] |
| Q702 Δ | 2SB1548PQAU | TRANSISTOR | [M] | D715 | MA165 | DIODE | [M] |
| Q703 Δ | 2SD2374PQAU | TRANSISTOR | [M] | D717-720 Δ | RL1N4003N02 | DIODE | [M] |
| Q704 | UN4211 | TRANSISTOR | [M] | D721 Δ | MA4300M | DIODE | [M] |
| Q707 Δ | 2SB621A-R | TRANSISTOR | [M] | D723 Δ | MA4150M | DIODE | [M] |
| Q708 Δ | 2SD2137PQTA | TRANSISTOR | [M] | D724, 725 Δ | MA4082LTA | DIODE | [M] |
| Q709 | 2SD2144S | TRANSISTOR | [M] | D727 Δ | MA4062-H | DIODE | [M] |
| Q711 | 2SB1417PQTA | TRANSISTOR | [M] | D730 Δ | MA4100MTA | DIODE | [M] |
| Q712 Δ | 2SB1548PQAU | TRANSISTOR | [M] | D732-736 | MA165 | DIODE | [M] |
| Q718 | UN4111 | TRANSISTOR | [M] | D737 Δ | MA4082LTA | DIODE | [M] |
| Q719, 720 | 2SD1450RTA | TRANSISTOR | [M] | D738, 739 | MA165 | DIODE | [M] |

| Ref.No. | Part No. | Part Name & Description | Remarks | Ref.No. | Part No. | Part Name & Description | Remarks |
|------------|--------------|--------------------------|---------|------------|--------------|-------------------------|---------|
| D751, 752△ | 1N5402BF | DIODE | [M] | X801 | EF0EC8004T4 | OSCILLATOR | [M] |
| D753, 754△ | RL1N4003N02 | DIODE | [M] | X901 | EF0EC6004T4 | OSCILLATOR | [M] |
| D801-804 | MA165 | DIODE | [M] | X902 | RSXD32K7S02 | OSCILLATOR | [M] |
| D808△ | MA4120 | DIODE | [M] | | | DISPLAY TUBE | |
| D901, 902 | 1SS291TA | DIODE | [M] | FL901 | RSL0234-F | DISPLAY TUBE | [M] |
| D903, 904 | MA165 | DIODE | [M] | | | FUSE (S) | |
| D905 | 1SS291TA | DIODE | [M] | F1△ | XBA2C12TB0S | FUSE, T2A | [M] |
| D906, 907 | MA165 | DIODE | [M] | F2△ | XBA2C25TB0 | FUSE, T1A | [M] |
| D908 | SPR505MDIT | L. E. D. | [M] | | | SWITCH (ES) | |
| D909 | MA165 | DIODE | [M] | S701△ | ESE37314 | SW | [M] |
| D931 | MA165 | DIODE | [M] | S901-914 | EVQ21405R | SW | [M] |
| D934 | MA165 | DIODE | [M] | | | CONNECTOR (S) | |
| D935-937 | MA165 | DIODE | [M] | CN201 | RJU057W010 | CONNECTOR (10P) | [M] |
| D943 | MA165 | DIODE | [M] | CN203 | RJU057W012 | CONNECTOR (12P) | [M] |
| D971, 972 | MA165 | DIODE | [M] | CN701-709 | RJS1A1101T1 | CONNECTOR (1P) | [M] |
| D973 | MA4039MTA | DIODE | [M] | CN711-715 | RJS1A1101T1 | CONNECTOR (1P) | [M] |
| | | VARIABLE RESISTOR(S) | | CN715A | RJU057W012 | CONNECTOR (12P) | [M] |
| VR401 | EVUE27FK3B53 | V. R | [M] | CN716-719 | RJS1A1101T1 | CONNECTOR (1P) | [M] |
| VR901 | EVQVBXFK124B | V. R | [M] | CN720A | RJPIA4103 | CONNECTOR (2P) | [M] |
| | | COMPONENT COMBINATION(S) | | CN720 | RJS1A1101T1 | CONNECTOR (1P) | [M] |
| Z101 | RLA2Z002M-T | COMPONENT COMBINATION | [M] | CN721 | RJS9T5ZA | CONNECTOR (9P) | [M] |
| Z102 | RLI2Z006M-T | COMPONENT COMBINATION | [M] | CN801 | RJU057W009 | CONNECTOR (9P) | [M] |
| Z120 | RAL0006 | FM FRONT END | [M] | CN802 | RJU057W008 | CONNECTOR (8P) | [M] |
| Z901 | RCDCP1U28XD | COMPONENT COMBINATION | [M] | CN904, 905 | RJS2A2105 | CONNECTOR (5P) | [M] |
| | | COIL (S) | | CN101B | RJU057W007 | CONNECTOR (7P) | [M] |
| L101 | ELESNR68MA | COIL | [M] | CN102B | RJU057W007 | CONNECTOR (7P) | [M] |
| L103 | ELEXTR47MA9 | COIL | [M] | CP201 | RJT057W010-1 | CONNECTOR (10P) | [M] |
| L105, 106 | ELELN322KL | COIL | [M] | CP203 | RJT057W012-1 | CONNECTOR (12P) | [M] |
| L191 | ELESNR68MA | COIL | [M] | CP715 | RJT057W012-1 | CONNECTOR (12P) | [M] |
| L601-604 | SLQY07G-40 | COIL | [M] | CP801 | RJT057W009-1 | CONNECTOR (9P) | [M] |
| L801 | RLQA100JT-Y | COIL | [M] | CP802 | RJT057W008-1 | CONNECTOR (8P) | [M] |
| L901 | RLQA100JT-Y | COIL | [M] | CP101B | RJT057W007-1 | CONNECTOR (7P) | [M] |
| | | TRANSFORMER (S) | | CP102B | RJT057W007-1 | CONNECTOR (7P) | [M] |
| T501△ | RTP2M5E011 | POWER TRANSFORMER | [M] | | | EARTH TERMINAL (S) | |
| | | FILTER (S) | | E601 | SNE1004-2 | EARTH TERMINAL | [M] |
| CF201, 202 | RLFFETW4D01M | CERAMIC FILTER | [M] | E603 | SNE1004-2 | EARTH TERMINAL | [M] |
| | | OSCILLATOR(S) | | | | FUSE HOLDER(S) | |
| X101 | RSXZ456RM07M | OSCILLATOR | [M] | FC1-A | EYF52BC | FUSE HOLDER | [M] |
| X102 | RLFDGT05DD | OSCILLATOR | [M] | | | RELAY (S) | |
| X103 | RSXC7M20S05T | OSCILLATOR | [M] | | | | |

Resistors and Capacitors [For (GC) area]

Notes : * Capacity values are in microfarads (μF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
 * Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM) , 1M=1,000K (OHM)

| Ref.No. | Part No. | Values & Remarks | Ref.No. | Part No. | Values & Remarks | Ref.No. | Part No. | Values & Remarks |
|--------------------|-------------|--------------------|--------------------|--------------|--------------------|-----------|-------------|--------------------|
| | | RESISTORS | R235, 236 | ERDS2TJ102 | 1/4W 1K Ω | R409 | ERDS2TJ472 | 1/4W 4.7K Ω |
| | | | R239-242 | ERDS2TJ102 | 1/4W 1K Ω | R410 | ERDS2TJ222 | 1/4W 2.2K Ω |
| | | | R243, 244 | ERDS2TJ152 | 1/4W 1.5K Ω | R411 | ERDS2TJ331 | 1/4W 330 Ω |
| R103 | ERDS2TJ271 | 1/4W 270 Ω | R245, 246 | ERDS2TJ332 | 1/4W 3.3K Ω | R412 | ERDS2TJ105T | 1/4W 1M Ω |
| R104 | ERDS2TJ822 | 1/4W 8.2K Ω | R249, 250 | ERDS2TJ101 | 1/4W 100 Ω | R415 | ERDS2TJ102 | 1/4W 1K Ω |
| R105 | ERDS2TJ471 | 1/4W 470 Ω | R251 | ERDS2TJ222 | 1/4W 2.2K Ω | R416 | ERDS2TJ181T | 1/4W 180 Ω |
| R106 | ERDS2TJ474 | 1/4W 470K Ω | R253, 254 | ERDS2TJ104 | 1/4W 100K Ω | R421 | ERDS2TJ223 | 1/4W 22K Ω |
| R107 | ERDS2TJ331 | 1/4W 330 Ω | R255, 256 | ERDS2TJ123 | 1/4W 12K Ω | R450 | ERDS2TJ682T | 1/4W 6.8K Ω |
| R108 | ERDS2TJ474 | 1/4W 470K Ω | R257, 258 | ERDS2TJ562 | 1/4W 5.6K Ω | R451, 452 | ERDS2TJ223 | 1/4W 22K Ω |
| R109 | ERDS2TJ331 | 1/4W 330 Ω | R261, 262 Δ | ERD25FVJ1R0T | 1/4W 1.0 Ω | R453 | ERDS2TJ1R0 | 1/4W 1.0 Ω |
| R110 | ERDS2TJ102 | 1/4W 1K Ω | R301 | ERDS2TJ223 | 1/4W 22K Ω | R454 | ERDS2TJ103 | 1/4W 10K Ω |
| R112 | ERDS2TJ104 | 1/4W 100K Ω | R302 | ERDS2TJ472 | 1/4W 4.7K Ω | R455 | ERDS2TJ223 | 1/4W 22K Ω |
| R113 | ERDS2TJ103 | 1/4W 10K Ω | R303, 304 | ERDS2TJ222 | 1/4W 2.2K Ω | R456 | ERDS2EJ121 | 1/4W 120 Ω |
| R114 | ERDS2TJ562 | 1/4W 5.6K Ω | R305, 306 | ERDS2TJ122 | 1/4W 1.2K Ω | R457 | ERDS2TJ822 | 1/4W 8.2K Ω |
| R115 | ERDS2TJ561 | 1/4W 560 Ω | R307, 308 | ERDS2TJ104 | 1/4W 100K Ω | R458 | ERDS2TJ123 | 1/4W 12K Ω |
| R116 | ERDS2TJ102 | 1/4W 1K Ω | R309, 310 | ERDS2TJ102 | 1/4W 1K Ω | R459 | ERDS2TJ472 | 1/4W 4.7K Ω |
| R117 | ERDS2TJ273 | 1/4W 27K Ω | R311, 312 | ERDS2TJ104 | 1/4W 100K Ω | R460 | ERDS2TJ153 | 1/4W 15K Ω |
| R118 | ERDS2TJ562 | 1/4W 5.6K Ω | R313, 314 | ERDS2EJ121 | 1/4W 120 Ω | R461 | ERDS2TJ472 | 1/4W 4.7K Ω |
| R119 | ERDS2TJ682T | 1/4W 6.8K Ω | R315 | ERDS2TJ104 | 1/4W 100K Ω | R462 | ERDS2TJ103 | 1/4W 10K Ω |
| R120 | ERDS2TJ473 | 1/4W 47K Ω | R316 | ERDS2TJ222 | 1/4W 2.2K Ω | R463 | ERDS2TJ223 | 1/4W 22K Ω |
| R121 | ERDS2TJ332 | 1/4W 3.3K Ω | R317 | ERDS2TJ105T | 1/4W 1M Ω | R464 | ERDS2TJ103 | 1/4W 10K Ω |
| R122 | ERDS2TJ272T | 1/4W 2.7K Ω | R318 | ERDS2TJ153 | 1/4W 15K Ω | R465 | ERDS2TJ104 | 1/4W 100K Ω |
| R124 | ERDS2TJ271 | 1/4W 270 Ω | R319 | ERDS2TJ472 | 1/4W 4.7K Ω | R503, 504 | ERDS2TJ333 | 1/4W 33K Ω |
| R125, 126 | ERDS2TJ152 | 1/4W 1.5K Ω | R321 | ERDS2TJ104 | 1/4W 100K Ω | R505, 506 | ERDS2TJ153 | 1/4W 15K Ω |
| R127 | ERDS2TJ103 | 1/4W 10K Ω | R322 | ERDS2TJ222 | 1/4W 2.2K Ω | R507, 508 | ERDS2TJ332 | 1/4W 3.3K Ω |
| R128 | ERDS2TJ820 | 1/4W 82 Ω | R324 | ERDS2TJ223 | 1/4W 22K Ω | R509-512 | ERDS2TJ560T | 1/4W 56 Ω |
| R129 | ERDS2TJ473 | 1/4W 47K Ω | R326 | ERDS2TJ332 | 1/4W 3.3K Ω | R513, 514 | ERDS2TJ103 | 1/4W 10K Ω |
| R130 | ERDS2TJ103 | 1/4W 10K Ω | R327 | ERDS2TJ392T | 1/4W 3.9K Ω | R521 | ERDS2TJ561 | 1/4W 560 Ω |
| R132 | ERDS2TJ103 | 1/4W 10K Ω | R328 | ERDS2TJ332 | 1/4W 3.3K Ω | R551 | ERDS2TJ183T | 1/4W 18K Ω |
| R133-137 | ERDS2TJ102 | 1/4W 1K Ω | R329 | ERDS2TJ103 | 1/4W 10K Ω | R552 | ERDS2TJ473 | 1/4W 47K Ω |
| R138 | ERDS2TJ103 | 1/4W 10K Ω | R330 | ERDS2TJ332 | 1/4W 3.3K Ω | R555 | ERDS2TJ223 | 1/4W 22K Ω |
| R139, 140 | ERDS2TJ272T | 1/4W 2.7K Ω | R331 | ERDS2TJ102 | 1/4W 1K Ω | R556 | ERDS2TJ104 | 1/4W 100K Ω |
| R141, 142 | ERDS2TJ102 | 1/4W 1K Ω | R332-334 | ERDS2TJ222 | 1/4W 2.2K Ω | R557 | ERDS2TJ472 | 1/4W 4.7K Ω |
| R143, 144 | ERDS2TJ222 | 1/4W 2.2K Ω | R335, 336 | ERDS2TJ683 | 1/4W 68K Ω | R558 | ERDS2TJ102 | 1/4W 1K Ω |
| R145, 146 | ERDS2TJ102 | 1/4W 1K Ω | R338 | ERDS2TJ392T | 1/4W 3.9K Ω | R559 | ERDS2TJ472 | 1/4W 4.7K Ω |
| R147, 148 | ERDS2TJ474 | 1/4W 470K Ω | R341, 342 | ERDS2TJ222 | 1/4W 2.2K Ω | R560, 561 | ERDS2TJ104 | 1/4W 100K Ω |
| R149 | ERDS2TJ680T | 1/4W 68 Ω | R343 | ERDS2TJ334 | 1/4W 330K Ω | R563, 564 | ERDS2TJ273 | 1/4W 27K Ω |
| R171, 172 | ERDS2TJ102 | 1/4W 1K Ω | R353 | ERDS2TJ104 | 1/4W 100K Ω | R566 | ERDS2TJ683 | 1/4W 68K Ω |
| R173 | ERDS2TJ471 | 1/4W 470 Ω | R354 | ERDS2TJ223 | 1/4W 22K Ω | R567 | ERG1SJ220 | 1W 22 Ω |
| R175 | ERDS2TJ102 | 1/4W 1K Ω | R360 | ERDS2TJ223 | 1/4W 22K Ω | R568 | ERDS2TJ101 | 1/4W 100 Ω |
| R176 | ERDS2TJ391 | 1/4W 390 Ω | R364 | ERDS2TJ103 | 1/4W 10K Ω | R569 | ERDS2TJ103 | 1/4W 10K Ω |
| R201, 202 Δ | ERDS2FJ752 | 1/4W 7.5K Ω | R365 | ERDS2TJ223 | 1/4W 22K Ω | R570 | ERDS2TJ225 | 1/4W 2.2M Ω |
| R217, 218 | ERDS2TJ562 | 1/4W 5.6K Ω | R380 | ERDS2TJ153 | 1/4W 15K Ω | R591 | ERDS2TJ473 | 1/4W 47K Ω |
| R221, 222 | ERDS2FJ752 | 1/4W 7.5K Ω | R401, 402 | ERDS2TJ681 | 1/4W 680 Ω | R602, 603 | ERDS2TJ221 | 1/4W 220 Ω |
| R223, 224 | ERDS2TJ562 | 1/4W 5.6K Ω | R403 | ERDS2TJ223 | 1/4W 22K Ω | R604, 605 | ERDS2TJ103 | 1/4W 10K Ω |
| R225, 226 | ERDS2TJ104 | 1/4W 100K Ω | R404 | ERDS2TJ471 | 1/4W 470 Ω | R609, 610 | ERDS2TJ563 | 1/4W 56K Ω |
| R227, 228 | ERDS2TJ222 | 1/4W 2.2K Ω | R405 | ERDS2TJ472 | 1/4W 4.7K Ω | R611, 612 | ERDS2TJ332 | 1/4W 3.3K Ω |
| R229, 230 | ERDS2TJ822 | 1/4W 8.2K Ω | R406 | ERDS2TJ474 | 1/4W 470K Ω | R613 | ERDS2TJ104 | 1/4W 100K Ω |
| R231-234 | ERDS2TJ682T | 1/4W 6.8K Ω | R407 | ERDS2TJ472 | 1/4W 4.7K Ω | R614 | ERDS2TJ124T | 1/4W 120K Ω |

| Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks |
|------------|--------------|------------------|-----------|--------------|------------------|-----------|--------------|------------------|
| R615, 616 | ERDS2TJ182 | 1/4W 1.8K [M] | R819 | ERDS2TJ393 | 1/4W 39K [M] | R942 | ERDS2TJ101 | 1/4W 100 [M] |
| R619, 620 | ERDS2TJ563 | 1/4W 56K [M] | R822 | ERDS2TJ102 | 1/4W 1K [M] | R943 | ERDS2TJ102 | 1/4W 1K [M] |
| R621 | ERDS2TJ273 | 1/4W 27K [M] | R823 | ERDS2TJ105T | 1/4W 1M [M] | R946 | ERDS2TJ102 | 1/4W 1K [M] |
| R622 | ERDS2TJ473 | 1/4W 47K [M] | R825-827 | ERDS2TJ332 | 1/4W 3.3K [M] | R947, 948 | ERDS2TJ104 | 1/4W 100K [M] |
| R623 | ERDS2TJ684 | 1/4W 680K [M] | R835, 836 | ERDS2TJ222 | 1/4W 2.2K [M] | R949 | ERDS2TJ472 | 1/4W 4.7K [M] |
| R624 | ERDS2TJ223 | 1/4W 22K [M] | R837, 838 | ERDS2TJ182 | 1/4W 1.8K [M] | R950 | ERDS2TJ101 | 1/4W 100 [M] |
| R626 | ERDS2TJ154 | 1/4W 150K [M] | R842 | ERDS2TJ104 | 1/4W 100K [M] | R951 | ERDS2TJ334 | 1/4W 330K [M] |
| R627 | ERDS2TJ124T | 1/4W 120K [M] | R843, 844 | ERDS2TJ222 | 1/4W 2.2K [M] | R952 | ERDS2TJ106T | 1/4W 10M [M] |
| R628 | ERDS2TJ184T | 1/4W 180K [M] | R845 | ERDS2TJ104 | 1/4W 100K [M] | R953 | ERDS2TJ101 | 1/4W 100 [M] |
| R629 | ERDS2TJ104 | 1/4W 100K [M] | R846 | ERDS2TJ102 | 1/4W 1K [M] | R954 | ERDS2TJ104 | 1/4W 100K [M] |
| R630 | ERDS2TJ473 | 1/4W 47K [M] | R847, 848 | ERDS2TJ472 | 1/4W 4.7K [M] | R955 | ERDS2TJ824 | 1/4W 820K [M] |
| R631 | ERDS2TJ224T | 1/4W 220K [M] | R849 | ERDS2TJ102 | 1/4W 1K [M] | R956-958 | ERDS2TJ102 | 1/4W 1K [M] |
| R637 | ERDS2TJ154 | 1/4W 150K [M] | R850 | ERDS2TJ222 | 1/4W 2.2K [M] | R959 | ERDS2TJ471 | 1/4W 470 [M] |
| R638 | ERDS2TJ684 | 1/4W 680K [M] | R851 | ERDS2TJ473 | 1/4W 47K [M] | R960 | ERDS2TJ152 | 1/4W 1.5K [M] |
| R639-646△ | ERBS1FVJ100T | 1/2W 10 [M] | R852 | ERDS2TJ393 | 1/4W 39K [M] | R961, 962 | ERDS2TJ223 | 1/4W 22K [M] |
| R647, 648 | ERQ16NKR15E | 1/6W 0.15 [M] | R853 | ERDS2TJ473 | 1/4W 47K [M] | R963, 964 | ERDS2TJ103 | 1/4W 10K [M] |
| R655-658 | ERDS2TJ183T | 1/4W 18K [M] | R854 | ERDS2TJ393 | 1/4W 39K [M] | R965 | ERDS2TJ472 | 1/4W 4.7K [M] |
| R701, 702 | ERDS2TJ273 | 1/4W 27K [M] | R855 | ERDS2TJ104 | 1/4W 100K [M] | R966 | ERDS2TJ103 | 1/4W 10K [M] |
| R703, 704 | ERDS2TJ101 | 1/4W 100 [M] | R856, 857 | ERDS2TJ123 | 1/4W 12K [M] | R967 | ERDS2TJ473 | 1/4W 47K [M] |
| R707△ | ERD25FVJ4R7T | 1/4W 4.7 [M] | R859, 860 | ERDS2EJ121 | 1/4W 120 [M] | R968 | ERDS2TJ103 | 1/4W 10K [M] |
| R708 | ERDS2TJ472 | 1/4W 4.7K [M] | R861 | ERDS2TJ105T | 1/4W 1M [M] | R969, 970 | ERDS2TJ472 | 1/4W 4.7K [M] |
| R712 | ERDS2TJ152 | 1/4W 1.5K [M] | R862 | ERDS2TJ472 | 1/4W 4.7K [M] | R971 | ERDS2TJ473 | 1/4W 47K [M] |
| R713, 714 | ERDS2TJ332 | 1/4W 3.3K [M] | R863, 864 | ERDS2TJ105T | 1/4W 1M [M] | R972 | ERDS2TJ223 | 1/4W 22K [M] |
| R715 | ERDS2TJ183T | 1/4W 18K [M] | R865 | ERDS2TJ102 | 1/4W 1K [M] | R974 | ERDS2TJ101 | 1/4W 100 [M] |
| R717 | ERDS2TJ473 | 1/4W 47K [M] | R866, 867 | ERDS2TJ222 | 1/4W 2.2K [M] | R975 | ERDS2TJ181T | 1/4W 180 [M] |
| R721△ | ERD2FCVJ4R7T | 1/4W 4.7 [M] | R868-870 | ERDS2TJ102 | 1/4W 1K [M] | R977-981 | ERDS2TJ104 | 1/4W 100K [M] |
| R722△ | ERQ16NKR2R2E | 1/6W 2.2 [M] | R871, 872 | ERDS2TJ4R7T | 1/4W 4.7 [M] | R984, 985 | ERDS2TJ473 | 1/4W 47K [M] |
| R723 | ERDS2TJ562 | 1/4W 5.6K [M] | R873△ | ERD2FCVJ4R7T | 1/4W 4.7 [M] | R986-988 | ERDS2TJ102 | 1/4W 1K [M] |
| R724 | ERDS2TJ152 | 1/4W 1.5K [M] | R874 | ERDS2TJ104 | 1/4W 100K [M] | R989, 990 | ERDS2TJ393 | 1/4W 39K [M] |
| R725, 726 | ERDS2TJ100 | 1/4W 10 [M] | R875 | ERDS2TJ102 | 1/4W 1K [M] | R991 | ERDS2TJ473 | 1/4W 47K [M] |
| R727 | ERDS2TJ152 | 1/4W 1.5K [M] | R891 | ERDS2TJ331 | 1/4W 330 [M] | R993, 994 | ERDS2TJ104 | 1/4W 100K [M] |
| R729 | ERDS2TJ221 | 1/4W 220 [M] | R901 | ERDS2TJ821 | 1/4W 820 [M] | R996, 997 | ERDS2TJ151 | 1/4W 150 [M] |
| R735△ | ERD25FVJ4R7T | 1/4W 4.7 [M] | R902 | ERDS2TJ102 | 1/4W 1K [M] | | | |
| R736 | ERDS2TJ102 | 1/4W 1K [M] | R903 | ERDS2TJ122 | 1/4W 1.2K [M] | | | CAPACITORS |
| R737 | ERDS2TJ221 | 1/4W 220 [M] | R904 | ERDS2TJ152 | 1/4W 1.5K [M] | | | |
| R738 | ERDS2TJ392T | 1/4W 3.9K [M] | R905 | ERDS2TJ182 | 1/4W 1.8K [M] | C101 | ECBT1C103NS5 | 16V 0.01U [M] |
| R739 | ERDS2TJ473 | 1/4W 47K [M] | R906 | ERDS2TJ222 | 1/4W 2.2K [M] | C103 | ECBT1C103NS5 | 16V 0.01U [M] |
| R748 | ERDS2TJ102 | 1/4W 1K [M] | R907 | ERDS2TJ272T | 1/4W 2.7K [M] | C104, 105 | ECBT1H102KB5 | 50V 1000P [M] |
| R749 | ERDS2TJ271 | 1/4W 270 [M] | R908 | ERDS2TJ472 | 1/4W 4.7K [M] | C106 | ECBT1C103NS5 | 16V 0.01U [M] |
| R755△ | ERDS1FVJ8R2T | 1/2W 8.2 [M] | R909 | ERDS2TJ682T | 1/4W 6.8K [M] | C107 | ECBT1H4732F5 | 50V 0.047U [M] |
| R756△ | ERDS1FJ4R7 | 1/2W 4.7 [M] | R910 | ERDS2TJ123 | 1/4W 12K [M] | C108 | ECBT1H8R2KC5 | 50V 8.2P [M] |
| R757-759 | ERDS2TJ103 | 1/4W 10K [M] | R911 | ERDS2TJ223 | 1/4W 22K [M] | C109, 110 | ECBT1C103NS5 | 16V 0.01U [M] |
| R761, 762 | ERDS2TJ822 | 1/4W 8.2K [M] | R912 | ERDS2TJ821 | 1/4W 820 [M] | C111 | ECEA1EKA4R7B | 25V 4.7U [M] |
| R763 | ERDS2TJ472 | 1/4W 4.7K [M] | R919-923 | ERDS2TJ103 | 1/4W 10K [M] | C112 | ECBT1C103NS5 | 16V 0.01U [M] |
| R764 | ERDS2TJ331 | 1/4W 330 [M] | R924-927 | ERDS2TJ102 | 1/4W 1K [M] | C113 | ECBT1H102KB5 | 50V 1000P [M] |
| R765△ | ERDS1FVJ561T | 1/2W 560 [M] | R929 | ERDS2TJ102 | 1/4W 1K [M] | C114 | RCE1HKA3R3BG | 50V 3.3U [M] |
| R766 | ERDS2TJ102 | 1/4W 1K [M] | R930 | ERDS2TJ101 | 1/4W 100 [M] | C115 | ECEA1EKA4R7B | 25V 4.7U [M] |
| R767△ | ERD2FCVJ4R7T | 1/4W 4.7 [M] | R931-936 | ERDS2TJ102 | 1/4W 1K [M] | C116 | ECBT1C822KS5 | 16V 8200P [M] |
| R768 | ERDS2TJ101 | 1/4W 100 [M] | R937 | ERDS2TJ562 | 1/4W 5.6K [M] | C117 | ECQB1H102JF3 | 50V 1000P [M] |
| R791, 792△ | RSFMR30KT-L | PROTECTOR [M] | R938 | ERDS2TJ102 | 1/4W 1K [M] | C118, 119 | ECFR1C103KR | 16V 0.01U [M] |
| R801, 802 | ERDS2TJ393 | 1/4W 39K [M] | R939 | ERDS2TJ152 | 1/4W 1.5K [M] | C120, 121 | ECEA1HKA010B | 50V 1U [M] |
| R808 | ERDS2TJ104 | 1/4W 100K [M] | R940, 941 | ERDS2TJ102 | 1/4W 1K [M] | C122 | ECEA1HKA2R2B | 50V 2.2U [M] |

| Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks |
|-----------|--------------|------------------|-----------|--------------|------------------|------------|---------------|------------------|
| C123 | ECEA1HKA010B | 50V 1U [M] | C342 | ECQV1H333JM3 | 50V 0.033U [M] | C432 | ECBT10J223MS5 | 6.3V 0.022U [M] |
| C124 | ECBT1H102KB5 | 50V 1000P [M] | C343 | ECEA1HKA2R2B | 50V 2.2U [M] | C433 | RCE1CKA470BG | 16V 47U [M] |
| C125 | ECBT1H150JC5 | 50V 15P [M] | C344 | ECBT1C332KR5 | 16V 3300P [M] | C434 | RCE1CKA100BG | 16V 10U [M] |
| C126 | ECBT1H473ZF5 | 50V 0.047U [M] | C346 | ECBT1H102KB5 | 50V 1000P [M] | C441 | ECBT1E103ZF | 25V 0.01U [M] |
| C127 | ECEA1CKA220B | 16V 22U [M] | C347 | ECBT1C682KR5 | 16V 6800P [M] | C501-506 | ECBT1H101KB5 | 50V 100P [M] |
| C128 | ECBT1H102KB5 | 50V 1000P [M] | C348 | RCE1CKA100BG | 16V 10U [M] | C507, 508 | RCE1CKA100BG | 16V 10U [M] |
| C129, 130 | ECEA0JKA101B | 6.3V 100U [M] | C349 | ECBT1C332KR5 | 16V 3300P [M] | C509-512 | ECBT1E103ZF | 25V 0.01U [M] |
| C132 | ECBT1H102KB5 | 50V 1000P [M] | C350 | ECFR1C223KR | 16V 0.022U [M] | C513, 514 | ECBT1C103KS5 | 16V 0.01U [M] |
| C133, 134 | ECBT1H270JU5 | 50V 27P [M] | C352 | ECFR1C103KR | 16V 0.01U [M] | C551 | ECEA1HKA2R2B | 50V 2.2U [M] |
| C135, 136 | ECBT1C103KS5 | 16V 0.01U [M] | C353 | ECFR1C823MR | 16V 0.082U [M] | C552 | ECBT1E103ZF | 25V 0.01U [M] |
| C137, 138 | ECBT1H561KB5 | 50V 560P [M] | C354 | ECEA1CN100SB | 16V 10U [M] | C554 | ECA1AM221B | 10V 220U [M] |
| C139, 140 | ECBT1C562KR5 | 16V 5600P [M] | C355 | ECFR1C393KR | 16V 0.039U [M] | C555, 556 | ECEA1CKN100B | 16V 10U [M] |
| C141-144 | ECEA1HKA010B | 50V 1U [M] | C356 | ECEA1HKA2R2B | 50V 0.22U [M] | C557, 558 | ECFR1C393KR | 16V 0.039U [M] |
| C145 | ECBT1H220JC5 | 50V 22P [M] | C357, 358 | ECQV1H683JM3 | 50V 0.068U [M] | C559 | ECBT1E103ZF | 25V 0.01U [M] |
| C148 | ECBT1C103NS5 | 16V 0.01U [M] | C359 | RCE1HKA3R3BG | 50V 3.3U [M] | C602-605 | RCE1CKA100BG | 16V 10U [M] |
| C149 | ECBT1H104ZF5 | 50V 0.1U [M] | C360 | RCE1HKA4R7BG | 50V 4.7U [M] | C607-610 | ECBT1H471KB5 | 50V 470P [M] |
| C171, 172 | ECBT1H102KB5 | 50V 1000P [M] | C361, 362 | ECBT1C222KR5 | 16V 2200P [M] | C611-614 | ECBT1H150JC5 | 50V 15P [M] |
| C173 | ECEA1CKA220B | 16V 22U [M] | C364 | ECBT1C152KR5 | 16V 1500P [M] | C615 | ECEA2AU010 | 100V 1U [M] |
| C174 | RCE1CKA100BG | 16V 10U [M] | C365 | ECQV1H154JM3 | 50V 0.15U [M] | C616 | ECA1JM330B | 63V 33U [M] |
| C196 | ECBT1H102KB5 | 50V 1000P [M] | C371 | ECEA0JKA101B | 6.3V 100U [M] | C617 | ECEA1HR2R2 | 50V 2.2U [M] |
| C201, 202 | ECBT1H180J5 | 50V 18P [M] | C372 | ECBT1H104ZF5 | 50V 0.1U [M] | C618 | ECA1HM101B | 50V 100U [M] |
| C219-226 | ECBT1H101KB5 | 50V 100P [M] | C385, 386 | ECEA1HKAR22B | 50V 0.22U [M] | C620, 621 | ECQV1H473JM3 | 50V 0.047U [M] |
| C229-234 | ECBT1H101KB5 | 50V 100P [M] | C395, 396 | ECBT1H473ZF5 | 50V 0.047U [M] | C624, 625 | ECQV1H473JM3 | 50V 0.047U [M] |
| C235, 236 | ECBT1H104ZF5 | 50V 0.1U [M] | C401 | ECBT1H102KB5 | 50V 1000P [M] | C628, 629 | RCE1CKA100BG | 16V 10U [M] |
| C301 | ECBT1H102KB5 | 50V 1000P [M] | C403 | ECBT1H102KB5 | 50V 1000P [M] | C701△ | ECA1VM472E | 35V 4700U [M] |
| C302, 303 | ECBT1H561KB5 | 50V 560P [M] | C404 | RCE1HKA3R3BG | 50V 3.3U [M] | C702△ | ECA1VM562E | 35V 5600U [M] |
| C309 | ECEA1HKAR22B | 50V 0.22U [M] | C405 | ECBT1H471KB5 | 50V 470P [M] | C703, 704△ | ECA1VM332E | 35V 3300U [M] |
| C310 | ECFR1C393KR | 16V 0.039U [M] | C406 | ECEA1EU4R7 | 25V 4.7U [M] | C705 | RCE1CKA100BG | 16V 10U [M] |
| C312 | ECFR1C823MR | 16V 0.082U [M] | C407 | ECBT1E103ZF | 25V 0.01U [M] | C706 | RCE1YKA100BG | 35V 10U [M] |
| C313 | ECFR1C103KR | 16V 0.01U [M] | C408 | ECBT1C103MS5 | 16V 0.01U [M] | C707 | ECBT1E103ZF | 25V 0.01U [M] |
| C315 | ECFR1C223KR | 16V 0.022U [M] | C409 | ECEA1HKA010B | 50V 1U [M] | C708 | RCE1CKA100BG | 16V 10U [M] |
| C316 | ECBT1C332KR5 | 16V 3300P [M] | C410 | ECEA1CKS100L | 16V 10U [M] | C709 | ECBT1H104ZF5 | 50V 0.1U [M] |
| C318 | ECBT1C682KR5 | 16V 6800P [M] | C411 | ECBT1H101KB5 | 50V 100P [M] | C710 | ECBT1E103ZF | 25V 0.01U [M] |
| C319 | ECBT1H102KB5 | 50V 1000P [M] | C412 | ECBT1H102KB5 | 50V 1000P [M] | C711 | RCE1EM471BV | 25V 470U [M] |
| C320 | ECBA1H681KB5 | 50V 680P [M] | C413 | ECEA1HKA010B | 50V 1U [M] | C714 | ECBT1H102KB5 | 50V 1000P [M] |
| C321 | ECBT1C332KR5 | 16V 3300P [M] | C414 | ECEA1AKA221B | 10V 220U [M] | C715△ | ECA1EM472E | 25V 4700U [M] |
| C322 | ECQV1H333JM3 | 50V 0.033U [M] | C415 | ECEA1HKA010B | 50V 1U [M] | C717 | ECEA1CKA330B | 16V 33U [M] |
| C324 | ECFR1C683KR | 16V 0.068U [M] | C416 | RCE1CKA100BG | 16V 10U [M] | C718 | RCE1AKA101BG | 10V 100U [M] |
| C325 | ECQV1H154JM3 | 50V 0.15U [M] | C417 | ECBT1C472KR5 | 16V 4700P [M] | C719, 720 | ECBT1E103ZF | 25V 0.01U [M] |
| C326 | ECBT1H102KB5 | 50V 1000P [M] | C418 | ECBT1H221KB5 | 50V 220P [M] | C721 | RCE1AKA101BG | 10V 100U [M] |
| C327 | ECBT1H471KB5 | 50V 470P [M] | C419 | RCE1CKA100BG | 16V 10U [M] | C723 | ECBT1E103ZF | 25V 0.01U [M] |
| C328 | RCE1CKA470BG | 16V 47U [M] | C420 | ECBT1H104ZF5 | 50V 0.1U [M] | C725 | RCE1CKA100BG | 16V 10U [M] |
| C329 | ECEA1HKA2R2B | 50V 2.2U [M] | C421 | RCE1AKA101BG | 10V 100U [M] | C726 | ECBT1E103ZF | 25V 0.01U [M] |
| C330 | ECBA1H681KB5 | 50V 680P [M] | C422 | ECBT1C103KS5 | 16V 0.01U [M] | C731 | ECBT1H102KB5 | 50V 1000P [M] |
| C331 | ECBT1H104ZF5 | 50V 0.1U [M] | C424 | ECBT1C103KS5 | 16V 0.01U [M] | C732 | ECBT1E223ZF | 25V 0.022U [M] |
| C332-334 | ECBT1H470J5 | 50V 47P [M] | C425 | ECBT1C332MR5 | 16V 3300P [M] | C734 | RCE1CKA100BG | 16V 10U [M] |
| C336 | ECBT1H104ZF5 | 50V 0.1U [M] | C426 | ECEA1HKA010B | 50V 1U [M] | C736△ | ECA1EM101B | 25V 100U [M] |
| C337 | RCE1CKA470BG | 16V 47U [M] | C427 | ECBT0J223MS5 | 6.3V 0.022U [M] | C737, 738△ | ECA1HM101B | 50V 100U [M] |
| C338 | ECBT1H471KB5 | 50V 470P [M] | C428 | ECEA1HKA010B | 50V 1U [M] | C739△ | ECA1JM101B | 63V 100U [M] |
| C339 | ECBT1H102KB5 | 50V 1000P [M] | C429 | ECBT1C472MR5 | 16V 4700P [M] | C740 | RCE1CKA100BG | 16V 10U [M] |
| C340 | ECQV1H154JM3 | 50V 0.15U [M] | C430 | ECBT1C103KS5 | 16V 0.01U [M] | C741 | ECBT1H104ZF5 | 50V 0.1U [M] |
| C341 | ECFR1C683KR | 16V 0.068U [M] | C431 | ECEA1HRNR47B | 50V 0.47U [M] | C801 | ECQV1H154JM3 | 50V 0.15U [M] |

| Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks | | | |
|-----------|--------------|------------------|-------------|--------------|------------------|--|--|--|
| C802 | RCE1HKA3R3BG | 50V 3.3U [M] | C902 | ECA0JMI02B | 6.3V 1000U [M] | | | |
| C803 | ECQV1H154JM3 | 50V 0.15U [M] | C903 | ECBT1E103ZF | 25V 0.01U [M] | | | |
| C804 | RCE1HKA4R7BG | 50V 4.7U [M] | C905-908 | ECBT1H471KB5 | 50V 470P [M] | | | |
| C805 | RCE1HKA47BG | 50V 0.47U [M] | C909 | ECBT1H102KB5 | 50V 1000P [M] | | | |
| C806 | RCE1HKA4R7BG | 50V 4.7U [M] | C910 | ECBT1H150JC5 | 50V 15P [M] | | | |
| C807 | RCE1HKA47BG | 50V 0.47U [M] | C911 | ECBT1H180JC5 | 50V 18P [M] | | | |
| C808 | RCE1CKA100BG | 16V 10U [M] | C912 | ECBT1H104ZF5 | 50V 0.1U [M] | | | |
| C809 | ECEA1HKA010B | 50V 1U [M] | C913 | RCE1CKA100BG | 16V 10U [M] | | | |
| C811, 812 | ECEA1CKA330B | 16V 33U [M] | C914 | ECEA1HKA2R2B | 50V 2.2U [M] | | | |
| C813 | ECA1CM221B | 16V 220U [M] | C915 | ECBT1E103ZF | 25V 0.01U [M] | | | |
| C814-817 | RCE1CKA100BG | 16V 10U [M] | C916 | ECA0JKF101B | 6.3V 100U [M] | | | |
| C818 | ECEA1HKA2R2B | 50V 2.2U [M] | C917 | ECBT1E103ZF | 25V 0.01U [M] | | | |
| C820 | ECEA1HKA33B | 50V 0.33U [M] | C918 | ECEA0JKA221B | 6.3V 220U [M] | | | |
| C821 | ECA1CM221B | 16V 220U [M] | C919, 920 | ECEA1HKS2R2B | 50V 2.2U [M] | | | |
| C824 | ECA1CM221B | 16V 220U [M] | C921 | ECBT1H102KB5 | 50V 1000P [M] | | | |
| C825, 826 | ECBT1H101KB5 | 50V 100P [M] | C922 | ECEA1VKA330B | 35V 33U [M] | | | |
| C827 | ECBT1H330J5 | 50V 33P [M] | C1101, 1102 | ECBT1H473ZF5 | 50V 0.047U [M] | | | |
| C828 | ECFR1C823MR | 16V 0.082U [M] | C1103-1106 | ECBT1H102KB5 | 50V 1000P [M] | | | |
| C829 | ECFR1E332KR | 25V 3300P [M] | C1107, 1108 | ECBT1H473ZF5 | 50V 0.047U [M] | | | |
| C830 | ECFR1C823MR | 16V 0.082U [M] | C1109-1111 | ECBT1H102KB5 | 50V 1000P [M] | | | |
| C831 | RCE1HKA47BG | 50V 0.47U [M] | | | | | | |
| C832 | ECQV1H473JM3 | 50V 0.047U [M] | | | | | | |
| C833 | ECA1CM221B | 16V 220U [M] | | | | | | |
| C834 | RCE1HKA47BG | 50V 0.47U [M] | | | | | | |
| C835 | RCE1CKA470BG | 16V 47U [M] | | | | | | |
| C836 | ECEA1HKA010B | 50V 1U [M] | | | | | | |
| C837 | ECBT1H104ZF5 | 50V 0.1U [M] | | | | | | |
| C840, 841 | RCE1CKA100BG | 16V 10U [M] | | | | | | |
| C842 | RCE1HKA47BG | 50V 0.47U [M] | | | | | | |
| C843 | RCE1HKA4R7BG | 50V 4.7U [M] | | | | | | |
| C844 | RCE1HKA47BG | 50V 0.47U [M] | | | | | | |
| C845 | RCE1HKA4R7BG | 50V 4.7U [M] | | | | | | |
| C846 | ECQV1H154JM3 | 50V 0.15U [M] | | | | | | |
| C847 | RCE1HKA3R3BG | 50V 3.3U [M] | | | | | | |
| C848 | ECQV1H154JM3 | 50V 0.15U [M] | | | | | | |
| C851 | RCE1CKA470BG | 16V 47U [M] | | | | | | |
| C852 | ECBA1H681KB5 | 50V 680P [M] | | | | | | |
| C861, 862 | RCE1CKA100BG | 16V 10U [M] | | | | | | |
| C863, 864 | ECEA1CKA220B | 16V 22U [M] | | | | | | |
| C865, 866 | RCE1HKA3R3BG | 50V 3.3U [M] | | | | | | |
| C867-869 | ECEA1CKA330B | 16V 33U [M] | | | | | | |
| C870 | RCE1CKA100BG | 16V 10U [M] | | | | | | |
| C871, 872 | ECBT1H470J5 | 50V 47P [M] | | | | | | |
| C873, 874 | ECEA0JKA470B | 6.3V 47U [M] | | | | | | |
| C875, 876 | RCE1CKA100BG | 16V 10U [M] | | | | | | |
| C877 | ECEA0JKA101B | 6.3V 100U [M] | | | | | | |
| C878 | ECBT1E103ZF | 25V 0.01U [M] | | | | | | |
| C880 | ECEA1CKA101B | 16V 100U [M] | | | | | | |
| C882 | ECEA1CKA101B | 16V 100U [M] | | | | | | |
| C887 | ECBT1H102KB5 | 50V 1000P [M] | | | | | | |
| C888, 889 | ECBT1H221KB5 | 50V 220P [M] | | | | | | |
| C901 | ECBT1H104ZF5 | 50V 0.1U [M] | | | | | | |

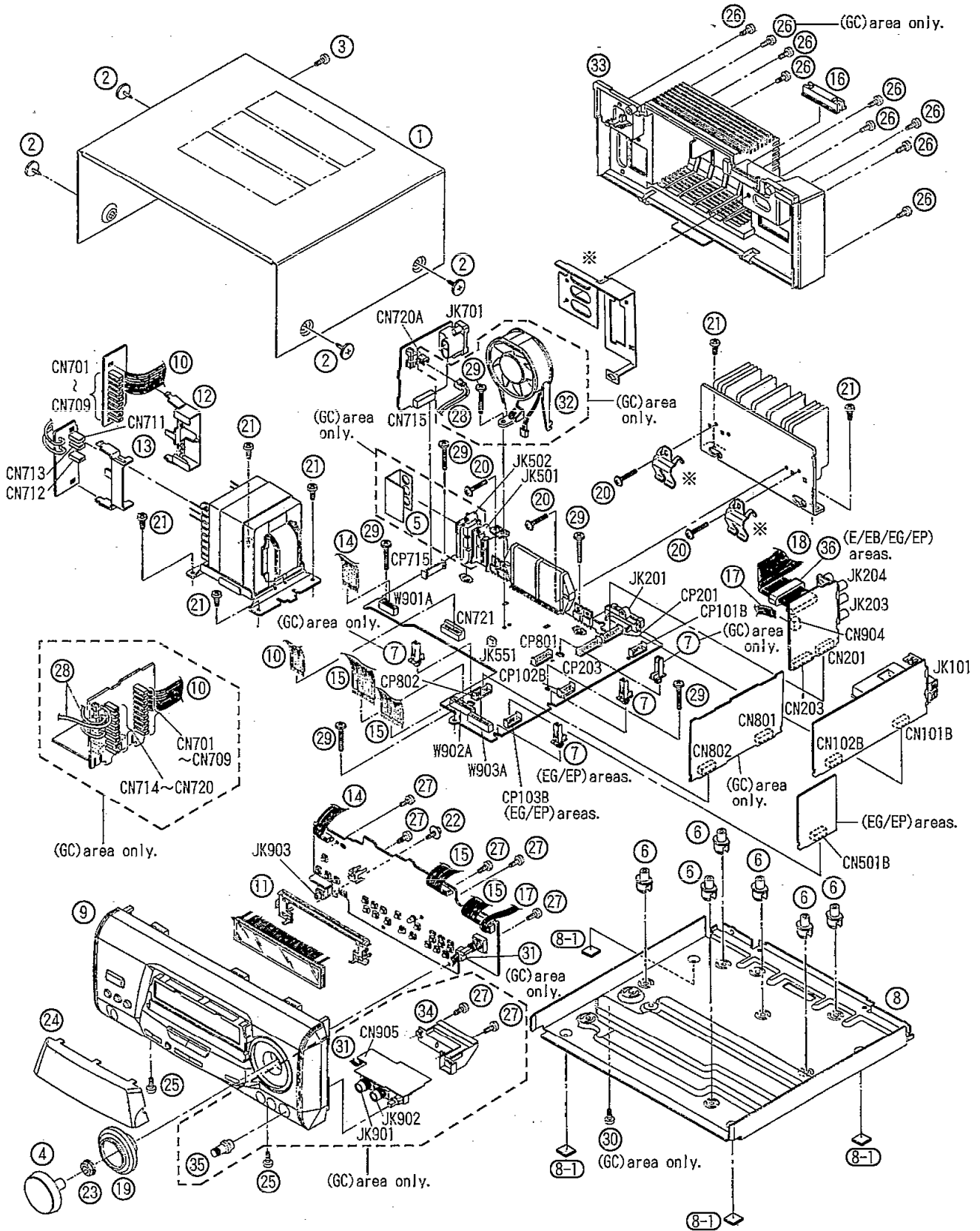
Replacement Parts List (Cabinet, Packing and Accessory)

| Ref.No. | Part No. | Part Name & Description | Remarks | Ref.No. | Part No. | Part Name & Description | Remarks |
|---------|--------------|----------------------------|------------------|---------|-------------|----------------------------|------------------|
| | | CABINET PARTS | | | | | |
| 1 | RKWD202E-K | CABINET | [M] (E/EB/EG/EP) | P4 | RPQ0777-1 | PAD (SH/SL-EH50) | [M] (E) |
| 1 | RKWD202F-K | CABINET | [M] (GC) | P5 | RPQ0734 | PAD (RS-EH60) | [M] (E) |
| 2 | RHD30007-K1 | SCREW | [M] | P6 | RPQ0776-1 | PAD (RS-EH60) | [M] (E) |
| 3 | XTBS3+10JFZ1 | SCREW | [M] | P7 | RPQ0769 | PAD (SYSTEM) | [M] (EP/GC) |
| 4 | RGWD183-K | KNOB, VOLUME | [M] | P8 | RPQ0770 | PAD (SYSTEM) | [M] (EP/GC) |
| 5 | RMV0136 | HOLDER | [M] (GC) | P9 | RPF0139 | PROTECTION COVER | [M] |
| 6 | RKQ0089-2 | P. C. B. SPACER | [M] | P10 | RPG3521 | PACKING CASE (SA-EH50) | [M] (E/EB/EG) |
| 7 | RMN0203 | P. C. B. HOLDER 1 | [M] | P10 | RPG3517 | PACKING CASE (SA-EH50) | [M] (EP/GC) |
| 8 | RFKJAEH50E-K | CHASSIS ASS' Y | [M] (E/EB/EG/EP) | P10 | RPG3451 | PACKING CASE (SH-EH50) | [M] (E) |
| 8 | RFKJAEH50GCK | CHASSIS ASS' Y | [M] (GC) | P10 | RPG3513 | PACKING CASE (SH-EH50) | [M] (EP) |
| 8-1 | SHG1645 | RUBBER | [M] | P10 | RPG3514 | PACKING CASE (SH-EH50) | [M] (GC) |
| 9 | RFKGAEH50E-K | FRONT PANEL ASS' Y | [M] (E/EB) | P10 | RPG3348 | PACKING CASE (SL-EH50) | [M] (E) |
| 9 | RFKGAEH50EGK | FRONT PANEL ASS' Y | [M] (EG/EP) | P10 | RPG3514 | PACKING CASE (SL-EH50) | [M] (EP) |
| 9 | RFKGAEH50GCK | FRONT PANEL ASS' Y | [M] (GC) | P10 | RPG3453 | PACKING CASE (RS-EH60) | [M] (E) |
| 10 | RWJ1809150KQ | FLAT CABLE (W721/9P) | [M] | P10 | RPG3515 | PACKING CASE (RS-EH60) | [M] (EP) |
| 11 | RMN0426 | FL. HOLDER | [M] | P11 | RPG3449 | PACKING CASE (SYSTEM) | [M] (EP) |
| 12 | RMN0429 | P. C. B. HOLDER 2 | [M] | P11 | RPG3340 | PACKING CASE (SYSTEM) | [M] (GC) |
| 13 | RMN0437 | P. C. B. HOLDER 3 | [M] | P12 | SPP740 | SHEET | [M] |
| 14 | RWJ7610260QQ | FLAT CABLE (W901/10P) | [M] | | | ACCESSORIES | |
| 15 | RWJ7615210QQ | FLAT CABLE (W902-W903/15P) | [M] | A1 | RAK-CH426WH | REMOTE CONTROL TRANSMITTER | [M] (E/EB/EG/EP) |
| 16 | RMN0427 | CABLE HOLDER | [M] | A1 | RAK-CH220WH | REMOTE CONTROL TRANSMITTER | [M] (GC) |
| 17 | RWJ6805330QR | FLAT CABLE (W904/5P) | [M] | A1-1 | RKK0080-K | BATTERY COVER | [M] (E/EB/EG/EP) |
| 18 | REX0852 | WIRE ASS' Y (W202) | [M] | A1-1 | RKK0057-K | BATTERY COVER | [M] (GC) |
| 19 | RGK0894-N | ORNAMENT | [M] | A2 | REE0499 | SPEAKER CORD | [M] |
| 20 | XTW3+15T | SCREW | [M] | A3△ | RJA0019-X | AC POWER SUPPLY CORD | [M] (E/EG/EP/GC) |
| 21 | XTB3+8JFZ | SCREW | [M] | A3△ | RJA0053-1X | AC POWER SUPPLY CORD | [M] (EB) |
| 22 | RHD26016 | SCREW | [M] | A4 | RQA0117 | WARRANTY CARD | [M] (E/EB/EG) |
| 23 | RHN90001 | NUT | [M] | A5<IA> | RQT3988-E | INSTRUCTION MANUAL | [M] (E) |
| 24 | RKWD506B-Q | FL. PANEL | [M] | A5<IB> | RQT3868-B | INSTRUCTION MANUAL | [M] (EB/EP) |
| 25 | XTBS3+8JFZ1 | SCREW | [M] | A5<IC> | RQT3870-D | INSTRUCTION MANUAL | [M] (EG) |
| 26 | XTB3+10JFZ | SCREW | [M] | A5<ID> | RQT3871-H | INSTRUCTION MANUAL | [M] (EG) |
| 27 | XTBS26+8J | SCREW | [M] | A5<IE> | RQT3869-R | INSTRUCTION MANUAL | [M] (EP) |
| 28 | RFKAEH50GCK | WIRE ASS' Y | [M] (GC) | A5<IF> | RQT3873-G | INSTRUCTION MANUAL | [M] (GC) |
| 29 | XTB3+20JFZ | SCREW | [M] | A6 | RSAD007 | FM INDOOR ANTENNA | [M] (E/EB/EG/EP) |
| 30 | XTB3+8FFZ | SCREW | [M] (GC) | A6 | RSAD006 | FM INDOOR ANTENNA | [M] (GC) |
| 31 | REZ0971 | FLAT CABLE (W905/5P) | [M] (GC) | A7 | RSAD012 | AM LOOP ANTENNA | [M] |
| 32 | REM0057 | FAN UNIT | [M] (GC) | A7-1 | RMN0244 | ANTENNA HOLDER | [M] |
| 33 | RKF0513B-K | REAR PANEL | [M] (E/EG/EP) | A8 | RQCB0169 | SERVICENTER LIST | [M] (E/EB/EG/GC) |
| 33 | RFKHAEH50EBK | REAR PANEL ASS' Y | [M] (EB) | A9 | RQCA0536 | QUICK SET UP GUIDE | [M] (EB) |
| 33 | RFKHAEH50GCK | REAR PANEL ASS' Y | [M] (GC) | A10 | SJP9009 | ANTENNA PLUG ADAPTER | [M] (EB) |
| 34 | RMN0425 | JACK HOLDER | [M] (GC) | A11△ | SJP5213-1 | AC PLUG ADAPTER | [M] (GC) |
| 35 | RGWD235-K | KNOB, MIC VOLUME | [M] (GC) | | | JIG/TOOL(S) | |
| 36 | RLBT4001-D | FERRITE CORE (5P) | [M] (E/EB/EG EP) | SA1 | RFKX0002 | GREASE | [M] |
| | | PACKING MATERIALS | | | | | |
| P1 | RPN1036-1 | PAD (SA-EH50) | [M] | | | | |
| P1 | RPN1038 | PAD (SH/SL-EH50) | [M] | | | | |
| P1 | RPN1037 | PAD (RS-EH60) | [M] | | | | |
| P2 | RPQ0779 | PAD (SA-EH50) | [M] (E/EB/EG) | | | | |
| P3 | RPQ0734 | PAD (SA-EH50) | [M] (E/EB/EG) | | | | |

NOTE: The "<IA>, <IB>, <IC>, <ID>, <IE>, <IF>" marks in Remarks indicate language of instruction manual.

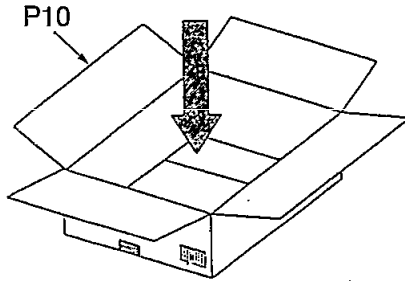
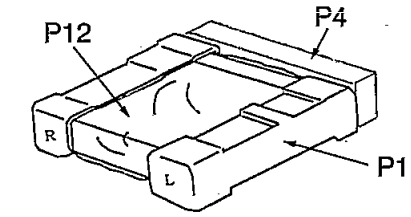
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 <IB>: English
 <IC>: German, Italian, French
 <ID>: Dutch, Danish
 <IE>: Russian, Polish, Czech
 <IF>: English, China, Arabic

■ Cabinet Parts Location

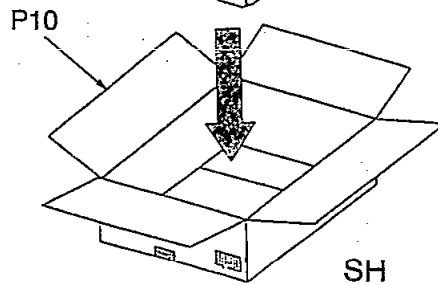
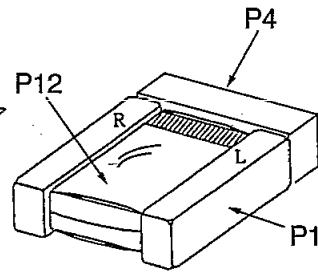


We do not supply those items of parts marked *.

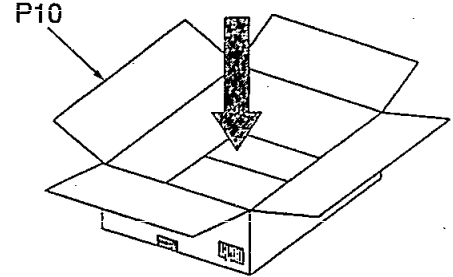
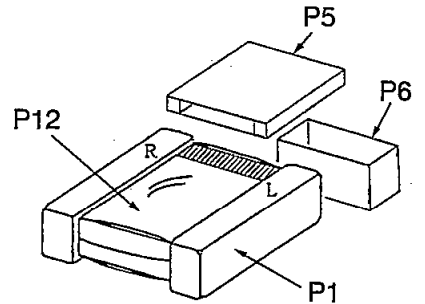
■ Packaging



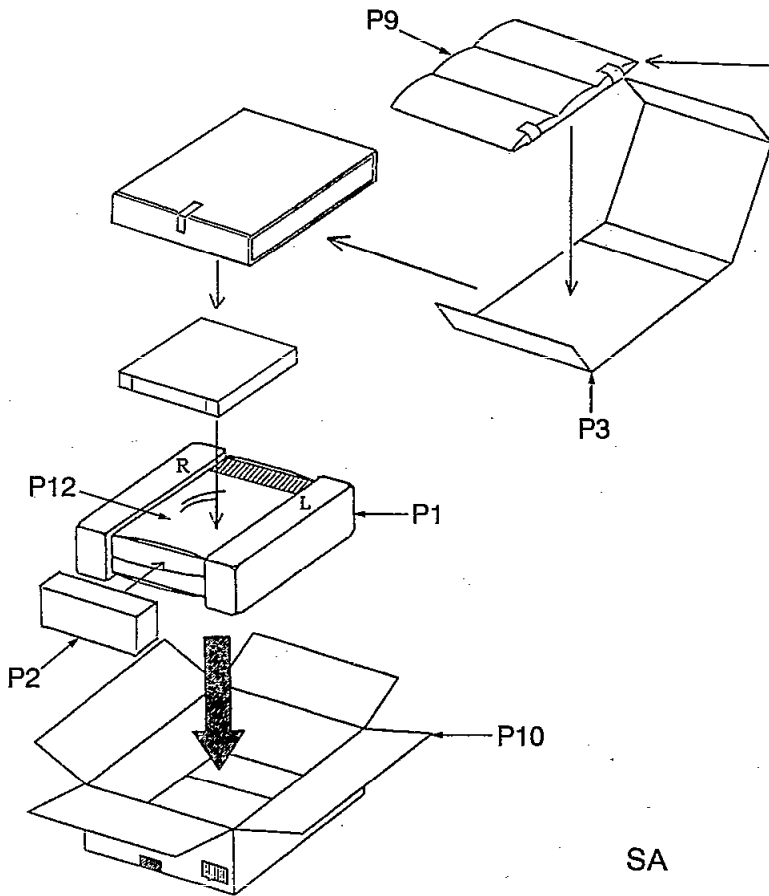
SL



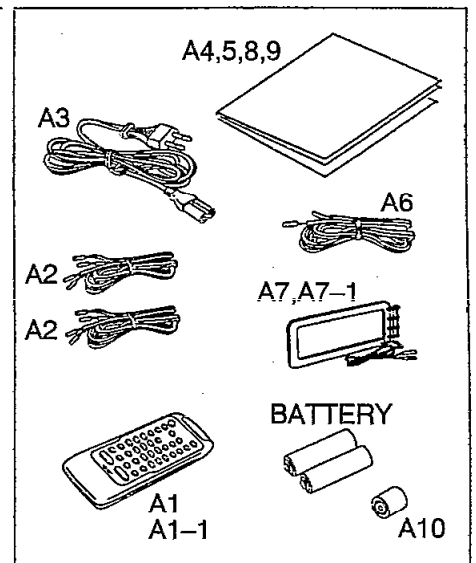
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RS

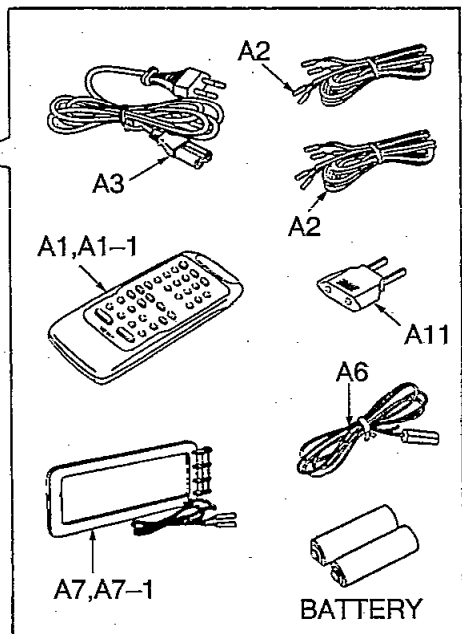
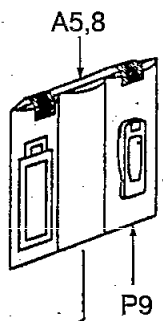
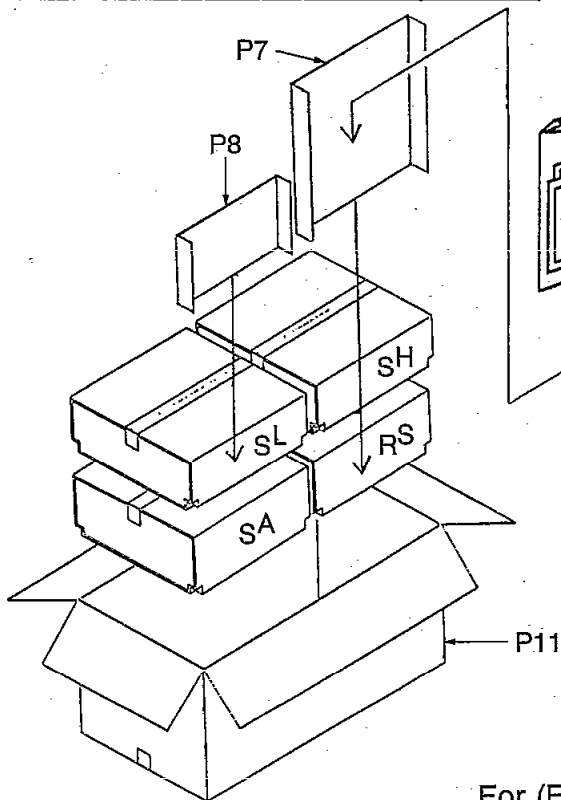
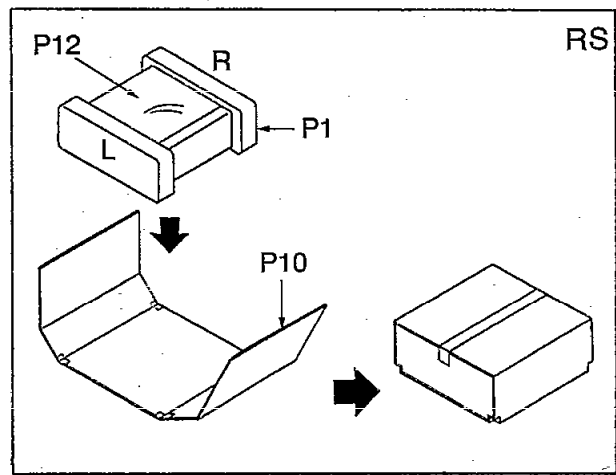
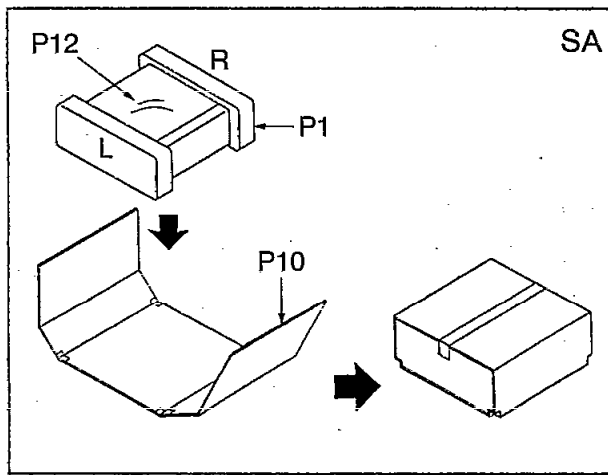
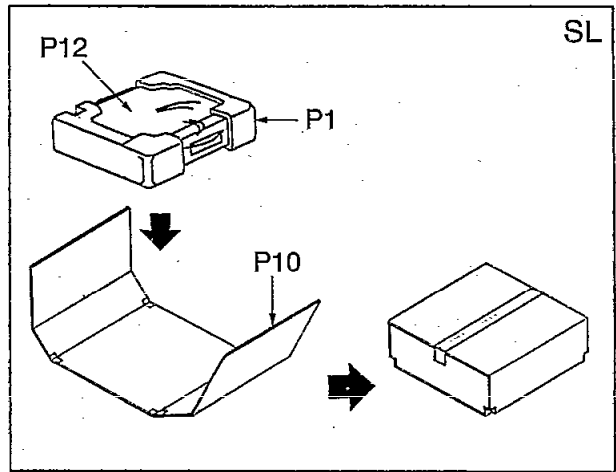
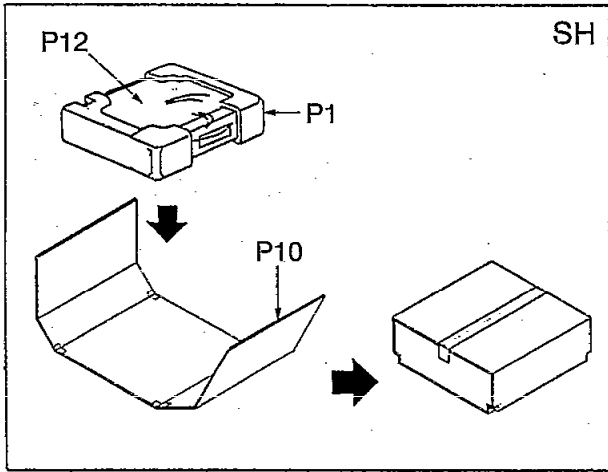


SA



For (E),(EB),(EG) Area

291



For (EP),(GC) Area