ORDER NO. AD9207252C8

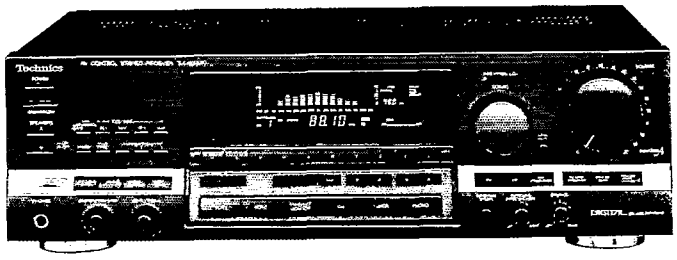
Service Manual

Receiver

AV Control Stereo Receiver

DOLBY SURROUND PRO • LOGIC *

SA-GX530



Colour

(K) ... Black Type

Area

Suffix for Model No.	Area	Colour
(E)	Europe.	(K)
(EB)	Great Britain.	
(EG)	Germany and Italy.	
(G)	Asia, Latin America, Middle Near East and Africa.	
(GN)	Oceania.	

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SPECIFICATIONS (DIN 45 500)

■ AMPLIFIER SECTION

Power output	
DIN 1 kHz (T.H.D. 1%)	2 × 100 W (4 Ω)
20 Hz~20 kHz continuous power output both channels driven	2 × 65 W (8 Ω)
Total harmonic distortion	
rated power at 20 Hz~20 kHz	0.05% (8 Ω)
half power at 1 kHz	0.03% (8 Ω)
Intermodulation distortion rated power at 60 Hz: 7 kHz = 4:1, SMPTE	0.5% (8 Ω)
Power bandwidth both channels driven, −3 dB	10 Hz~40 kHz (8 Ω)
Damping factor	40 (8 Ω)
Input sensitivity and impedance	
PHONO	3 mV/47 kΩ
CD, VCR 1, VCR 2, TAPE/DAT	200 mV/22 kΩ
PHONO maximum input voltage (1 kHz, RMS)	150 mV
S/N at rated power (8 Ω)	
PHONO	70 dB (IHF, A: 80 dB)
CD, VCR 1, VCR 2, TAPE/DAT	80 dB (IHF, A: 90 dB)
Frequency response	
PHONO	RIAA standard curve (30 Hz~15 kHz) ±0.8 dB
CD, VCR 1, VCR 2, TAPE/DAT	10 Hz~40 kHz, ±3 dB
Tone controls	
BASS	50 Hz, +10~−10 dB
TREBLE	20 kHz, +10~−10 dB
4 band parametric equalizer	+10~−10 dB
Loudness control (volume at −30 dB)	50 Hz, +9 dB
Output voltage	
VCR 1 OUT, TAPE/DAT REC (OUT)	200 mV
Channel balance (250 Hz~6.3 kHz)	±1 dB
Channel separation	55 dB
Headphones output level and impedance	430 mV/330 Ω
Load impedance	
A or B	4~16 Ω
A and B	8~16 Ω

■ SURROUND AMPLIFIER SECTION

Power output (REAR)	1 kHz, 10 W (8 Ω) (T.H.D. 0.8%)
Power output (CENTER)	1 kHz, 15 W (8 Ω) (T.H.D. 0.8%)

■ FM TUNER SECTION

Frequency range	87.50~108.00 MHz
Sensitivity	
S/N 30 dB	1.5 µV/75 Ω
S/N 26 dB	1.3 µV/75 Ω
S/N 20 dB	1.2 µV/75 Ω
IHF usable sensitivity	(IHF '58) 1.5 µV/75 Ω
IHF 46 dB stereo quieting sensitivity	22 µV/75 Ω
Total harmonic destortion	
MONO	0.2%
STEREO	0.3%
S/N	
MONO	60 dB (75 dB, IHF)
STEREO	58 dB (71 dB, IHF)
Frequency response	20 Hz~15 kHz, +1 dB, −2 dB
Alternate channel selectivity ±400 kHz	65 dB
Capture ratio	1.0 dB
Image rejection at 98 MHz	40 dB
IF rejection at 98 MHz	70 dB
Spurious response rejection at 98 MHz	70 dB
AM suppression	50 dB
Stereo separation	
1 kHz	40 dB

Technics

Carrier leak	
19 kHz	−55 dB (−60 dB, IHF)
38 kHz	−50 dB (−55 dB, IHF)
Channel balance (250 Hz~6.3 kHz)	±1.5 dB
Limiting point	1.2 μV
Bandwidth	
IF amplifier	180 kHz
FM demodulator	1000 kHz
Antenna terminals	75 Ω (unbalanced)

■ AM TUNER SECTION

• For (E, EB, G, GN) areas.

Frequency range	
MW	522~1611 kHz (9-kHz steps) 530~1620 kHz (10-kHz steps)
LW	144~288 kHz
Sensitivity (S/N 20 dB)	
MW	20 μV, 330 μV/m
LW	45 μV
Selectivity	
MW (at 999 kHz)	55 dB
LW (at 252 kHz)	55 dB
Image rejection	
MW (at 999 kHz)	40 dB
LW (at 252 kHz)	40 dB
IF rejection	
MW (at 999 kHz)	55 dB
LW (at 252 kHz)	55 dB

• For (EG) area.

Frequency range	522 kHz~1611 kHz (9-kHz-Schritte) 530 kHz~1620 kHz (10-kHz-Schritte)
Selectivity (S/N 20 dB)	20 μV, 330 μV/m
Selectivity at 999 kHz	55 dB
Image rejection at 999 kHz	40 dB
IF rejection at 999 kHz	55 dB

■ VIDEO SECTION

Output voltage at 1 V input (unbalanced)	1 ±0.1 Vp-p
Maximum input voltage	1.5 Vp-p
Input/output impedance	75 Ω (unbalanced)

■ GENERAL

Power consumption	260 W
Power supply	
For (E, EB, GN) areas.	AC 50 Hz/60 Hz, 230 V/240 V
For (EG) area.	AC 50 Hz/60 Hz, 230 V
For (G) area.	AC 50 Hz/60 Hz, 110 V/127 V/230 V/240 V
Dimensions (W × H × D)	430 × 134 × 305 mm
Weight	10 kg

■ REMOTE CONTROL TRANSMITTER

Control keys	37 keys
Dimensions (W × H × D)	70 × 28 × 215 mm
Weight (including batteris)	160 g
Power source	Two UM-4 (Panasonic R03/LR03 or equivalent)

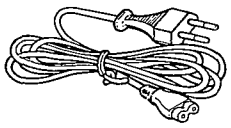
Notes:

1. Specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortions is measured by the digital spectrum analyzer.

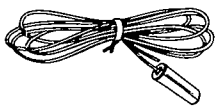
■ CONTENTS

■ ACCESSORIES

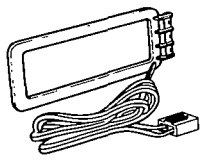
• AC power supply cord ..... 1 pc.
[RJA0019-1K (E, EG), SJA193 (EB)
RJA0004 (G), SJA173 (GN)]



• FM indoor antenna ..... 1 pc.
[RSA0007 (E, EB, EG)
RSA0006 (G, GN)]

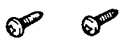


• AM loop antenna ..... 1 pc.
[SPB1163T]



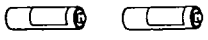
• AM antenna holder ..... 1 pc.
[SMA233-1M]

• Screws ..... 2 pcs.
[XTN3+10AFZ]



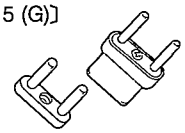
• Remote control transmitter (RAK-SA503E) ..... 1 pc.

• Batteries ..... 2 pcs.
for remote control transmitter (UM-4/R03)



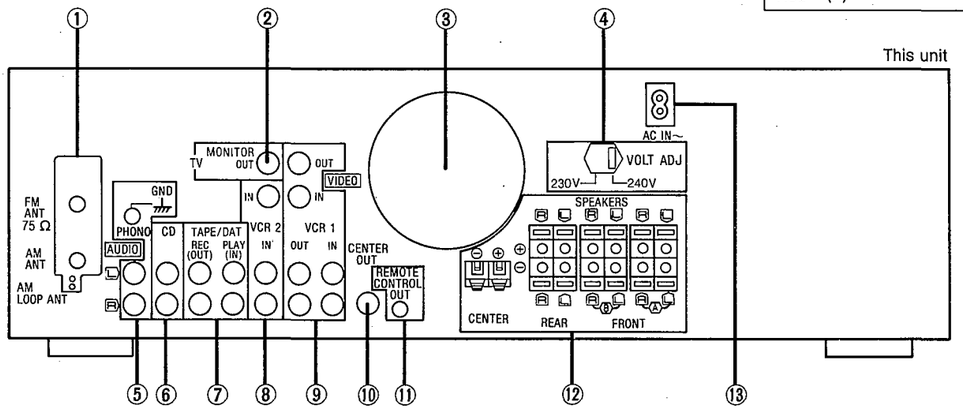
• Attachment plug ..... 1 pc.
[SJP9009 (EB)]

• AC plug adaptor ..... 1 pc.
[SJP9215 (G)]



■ CONNECTIONS

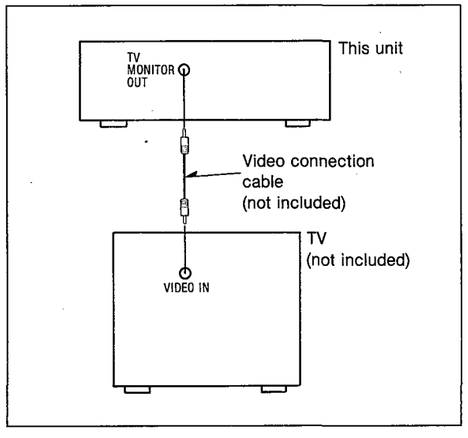
Stereo connection cable
(not included)
White (L)
Red (R)



① Antenna connection terminals

② "TV MONITOR OUT" terminal

Connect a video connection cable (not included) to the video input terminal of TV or projection TV.



③ Cooling fan

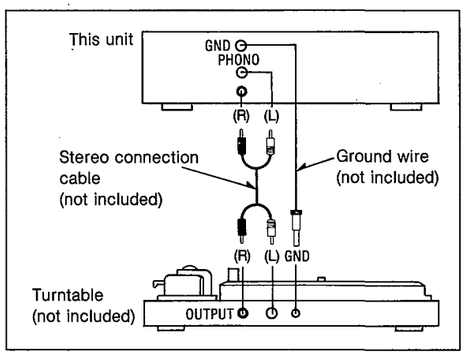
The cooling fan operates at high output power levels only.

④ Voltage selector (VOLT ADJ)

See page 6 for detailed information.

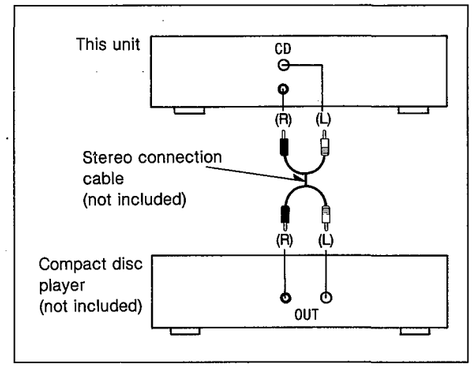
⑤ "PHONO" terminals

Connect a turntable only. Do not connect any other sound source to these terminals.



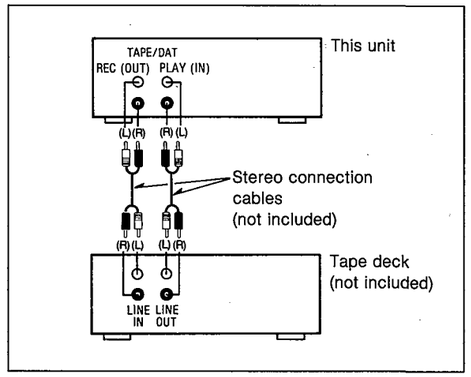
⑥ "CD" terminals

Connect a compact disc player.



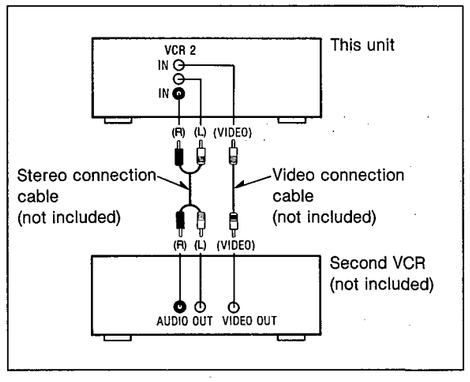
⑦ "TAPE/DAT" terminals

Connect a tape deck or a digital audio tape deck (DAT).



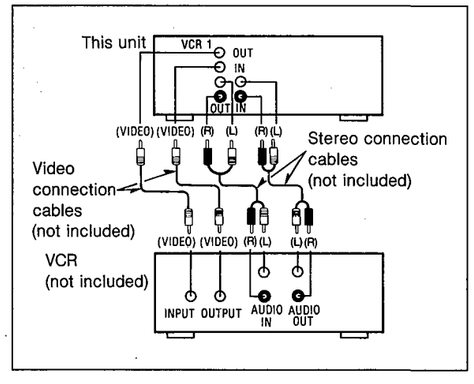
⑧ "VCR 2" terminals

Connect a second VCR or a laser disc player.



⑨ "VCR 1" terminals

Connect a VCR.



⑩ "CENTER OUT" terminal

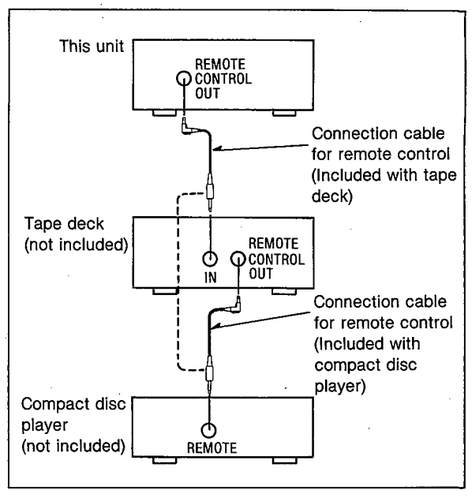
See page 6 for detailed information.

⑪ Remote control OUT terminal (REMOTE CONTROL OUT)

This terminal can be used only with Technics components which have the appropriate remote control terminal. (Consult your dealer for details.)
Proper connection with remote control connection cables SJP2257T will allow control of some functions from this unit's remote control transmitter. (See pages 12–13 for details.)

Connect to a tape deck and/or compact disc player as shown below.

If a tape deck is not being used, the compact disc player can be connected directly (dotted line).



Note:
For a compact disc player with a remote control sensor the above connection is not necessary.

⑫ Speaker connection terminals

See pages 5–6 for detailed information.

⑬ AC IN socket (AC IN)

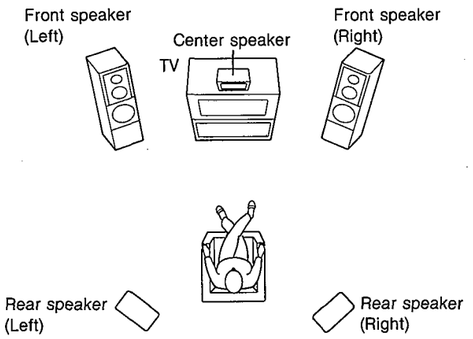
See page 6 for detailed information.

■ SPEAKER CONNECTIONS

To connect speakers

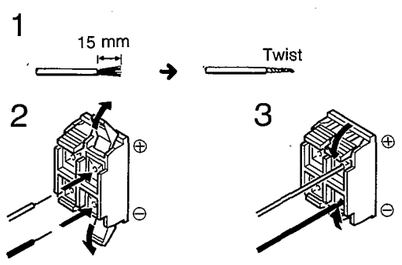
Placement of speakers

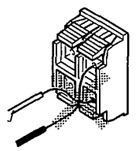
The illustration below is an example when enjoying Dolby Pro-Logic Surround.
Apart from this, the "PHANTOM mode" of the Dolby Pro-Logic Surround can be enjoyed even on systems which do not have center speakers connected, and "Dolby 3 stereo" can be enjoyed on systems which do not have rear speakers connected.
The listening position at which the effect is the greatest is a position slightly to the rear of a center position of five-speaker systems.
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.



To connect speaker connection cables to terminals (FRONT, REAR)

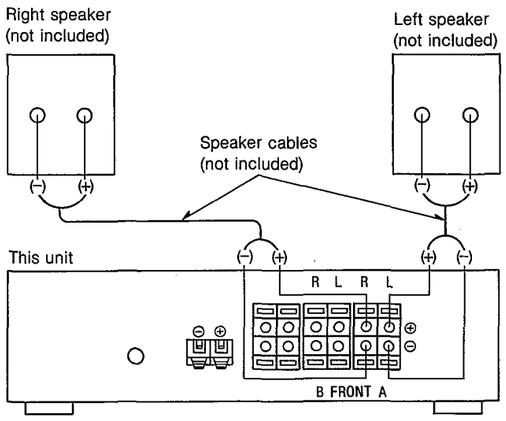
Be sure to only connect positive (+) wires to positive (+) terminals, and negative (−) wires to negative (−) terminals.





Note:
To prevent damage to circuitry, never short-circuit positive (+) and negative (−) speaker wires.

Connection of front speakers



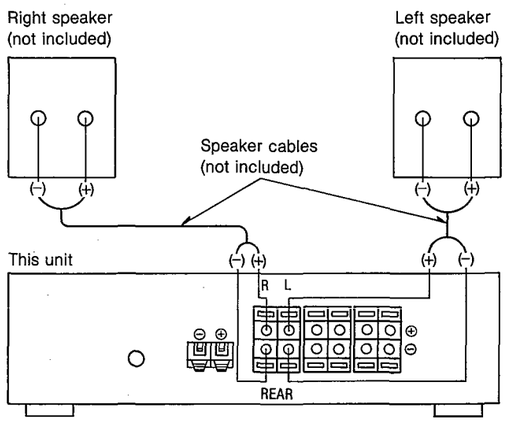
■ "B" terminals

For connection to a second pair of speakers.

■ Speaker impedance

- When only the "A" or only the "B" speakers are connected: 4−16 ohms.
- When both the "A" and the "B" speakers are connected simultaneously: 8−16 ohms.

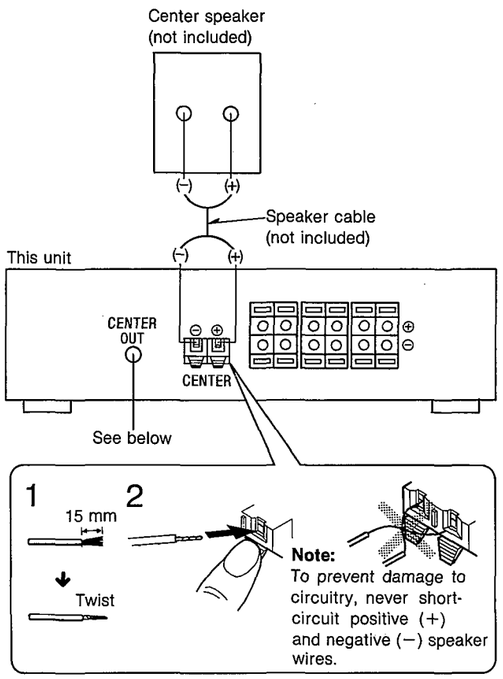
Connection of rear speakers



■ Speaker impedance

The impedance of any speaker used with this unit must be 8−16 Ω.

Connection of center speaker

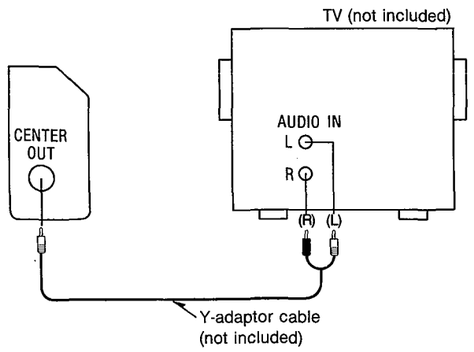


■ Speaker impedance

The impedance of any speaker used with this unit must be 8−16 Ω.

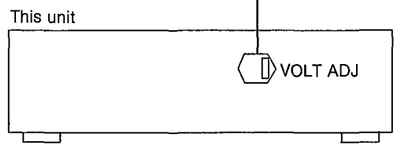
Using the TV speakers as the center speakers

You can use the TV speaker as the center speaker by connecting it as shown below.
When using the speakers, after setting the volume level of TV to MAX, adjust the center level on this unit.



To set the power voltage

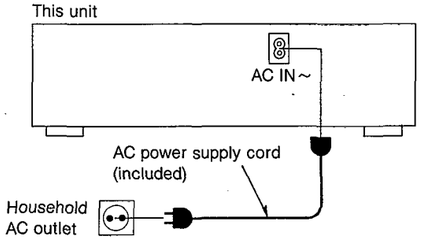
Set the voltage selector to the voltage setting for the area in which the unit will be used.
[Use a minus (−) screwdriver]



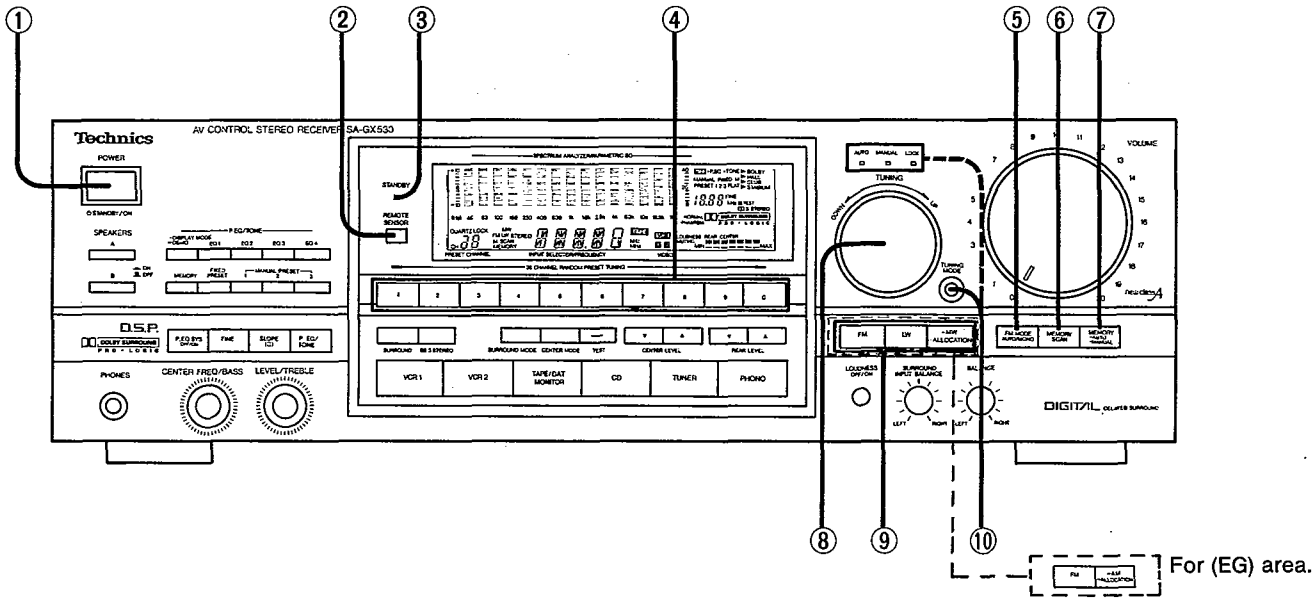
Note:
Note that this unit will be seriously damaged if this setting is not made correctly.

To connect the AC power supply cord (included)

Connect the AC power supply cord (included) after all other cables are connected.



■ FRONT PANEL CONTROLS AND FUNCTIONS



Tuner section

① Power "⏻ STANDBY/ON" switch (POWER, ⏻ STANDBY/ON)

This switch switches ON and OFF the secondary circuit power only. The unit is in the "standby" condition when this switch is set to the ⏻ STANDBY position. Regardless of the switch setting, the primary circuit is always "live" as long as the power cord is connected to an electrical outlet.

② Remote control signal receptor (REMOTE SENSOR)

Receives the signals from the remote control transmitter.

③ "STANDBY" indicator (STANDBY)

This indicator illuminates when the "STANDBY" mode is set by the main unit or the remote control transmitter.

④ Preset-tuning buttons (1 – 0) (30 CHANNEL RANDOM PRESET TUNING)

These buttons are used to preset broadcast frequencies into the memory of this unit and to recall the desired preset stations.

⑤ FM mode selector (FM MODE)

This unit automatically switches to the stereo mode when an FM stereo broadcast is received. This selector is used to select the mode (stereo or monaural) of FM broadcast signals.

⑥ Memory scan button (MEMORY SCAN)

This button is used to locate a desired broadcast station; each broadcast station is selected for about 3 seconds.

⑦ Memory button (MEMORY)

This button is used when presetting broadcast station frequencies into memory.

⑧ Tuning control (TUNING)

This control is used to select an FM, MW or LW broadcast. When turning the control to the left, the frequency changes downward. When turning the control to the right, the frequency changes upward.

⑨ Band selectors (FM, LW, MW)

FM: Press this button to listen to an FM broadcast.
LW: Press this button to listen to an LW broadcast.
MW (E, EB)/AM (EG): Press this button to listen to an MW/AM broadcast.
ALLOCATION: When the MW button is pressed for about 4 seconds, the MW frequency step will change to 10 kHz per step. (This step is set to 9 kHz before shipment.) In order to return to the original frequency indication, press this button for about 4 seconds again.

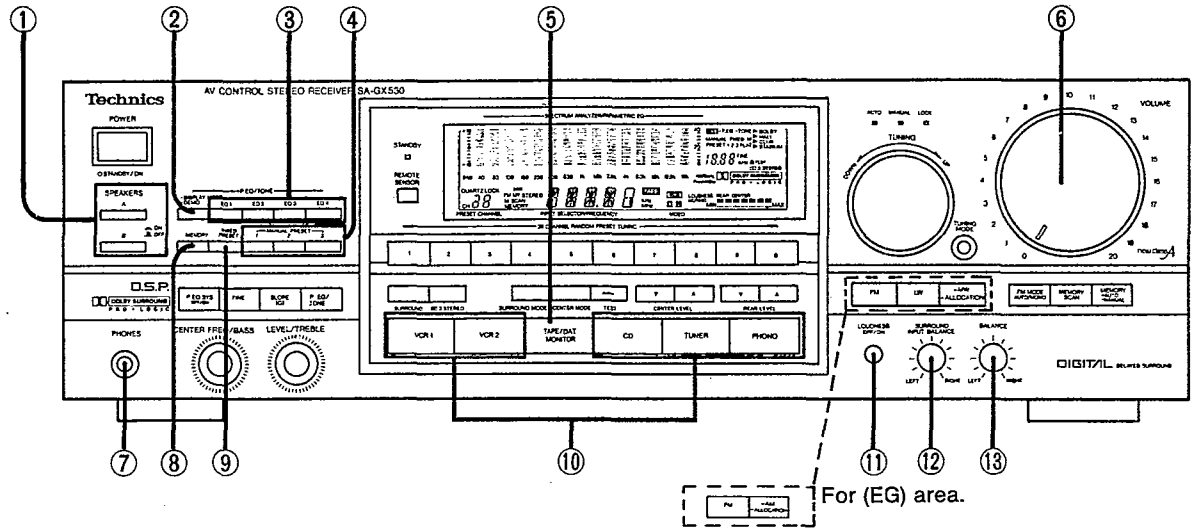
⑩ Tuning-mode selector/indicator (TUNING MODE)

Each time this selector is pressed, the selection changes, in sequence, to "AUTO", "MANUAL" and "LOCK".

AUTO:
In this position, broadcast channels are automatically selected when the tuning control is momentarily turned to the left or right to start the frequency changing.

MANUAL:
In this position, the tuning control can be used to locate the desired channel manually.
The frequency changes only as the tuning control is turned to the right to left.

LOCK:
In this position, the broadcast channel presently being heard is locked in, and other broadcast stations cannot be tuned to, even if the tuning control is turned.



Amplifier section

① Speaker selectors (SPEAKERS)
These selectors are used to select the speaker system(s) (A and/or B).

② Display mode select button (-DISPLAY MODE, —DEMO)
This button is used to select either the spectrum analysis level ("Bar-type display" or "Dot display") or equalization level display.
If the button is pressed for 3 seconds or more, this unit will start a demonstration mode for the parametric EQ system.

③ Parametric EQ band select buttons
These buttons are used to select the band to be adjusted.

④ Equalization preset buttons (MANUAL PRESET)
These buttons are used for storing or recalling the curves made by the parametric EQ system.

⑤ Tape-monitor button (TAPE/DAT MONITOR)
Press this button to listen to a tape or a digital audio tape connected to the "TAPE/DAT" terminals.
To listen to some other source, press this switch once again (so that the indicator is switched OFF).

⑥ Volume control (VOLUME)

⑦ Headphones jack (PHONES)

⑧ Parametric EQ system memory button (MEMORY)
This button enables the curves to be stored in the parametric EQ system memory.

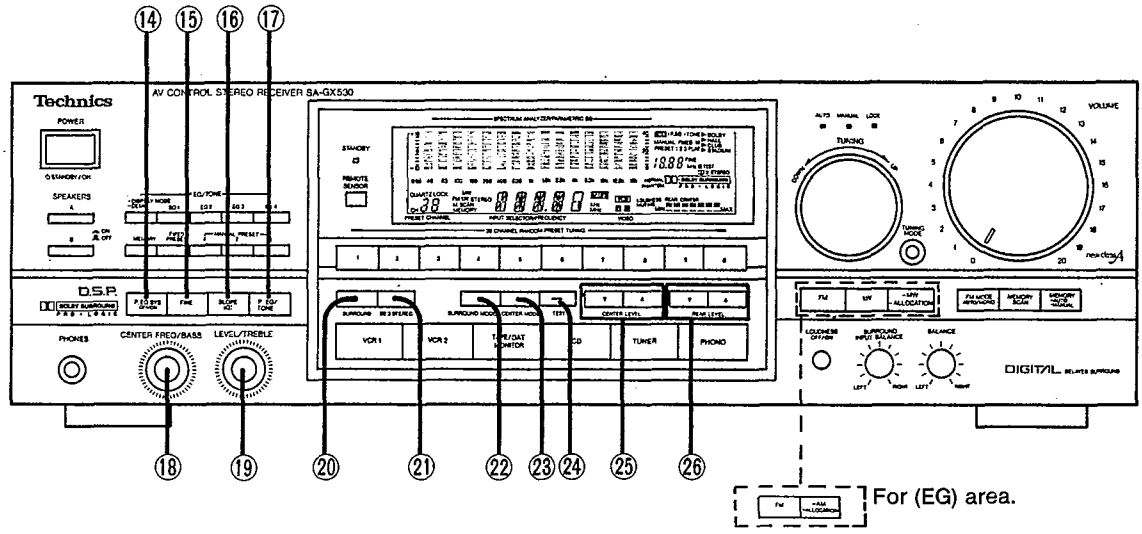
⑨ Fixed preset button (FIXED PRESET)
This button is used to recall a "fixed preset" curve from the main unit's memory.

⑩ Input selector buttons
These buttons are used to select the sound source to be heard, such as a disc, radio broadcasts, etc. The selected sound source is shown on the input selector/frequency display.
The "PHONO" input selector has two functions: when pressed momentarily it selects "PHONO". When pressed and held for about 4 seconds, it de-activates the muting function.

⑪ Loudness button (LOUDNESS)
Set to the "ON" position (the loudness indicator will illuminate); when listening to music at low volume. Auditory perception of sound in the low frequency range falls off at low volume, but when the switch is in this position, this deficiency is compensated for, so that the full impact of tha musical performance can be enjoyed.

⑫ Dolby Pro-Logic Surround input balance control (SURROUND INPUT BALANCE)
This control is used to adjust the left/right balance of the sound from the playback source if the sound is not balanced when listening to the Dolby Pro-Logic Surround system.

⑬ Balance control (BALANCE)



⑭ Parametric EQ system ON/OFF button (P.EQ SYS)

This button is used to turn the parametric EQ system ON or OFF.

⑮ Fine mode select button (FINE)

This button is used to fine-adjust the center frequency of the parametric EQ.

⑯ Slope changeover button [SLOPE (Q)]

This button is used to select the slope ("narrow" or "wide") of the parametric EQ curves.

⑰ Parametric EQ/tone mode select button (P.EQ/TONE)

This button is used to select parametric EQ mode or tone mode.

⑱ Center frequency select/bass control (CENTER FREQ/BASS)

This control is used to select the center frequency in the parametric EQ mode or to adjust the low-frequency sounds in the tone mode.

⑲ Frequency level/treble control (LEVEL/TREBLE)

This control is used to adjust the frequency level in the parametric EQ mode or the high-frequency sounds in the tone mode.

⑳ Surround ON/OFF button (SURROUND)

This button is used to activate the surround system.

㉑ Dolby 3 stereo ON/OFF button (3 STEREO)

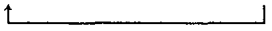
This button is used to activate the Dolby 3 stereo effect.

㉒ Surround mode select button (SURROUND MODE)

This button is used to select the desired surround mode.

㉓ Center mode select button (CENTER MODE)

When the Dolby Pro-Logic Surround system is turned on, the center mode will change as follows each time you press this button: NORMAL → PHANTOM → (OFF):



㉔ Test signal button (TEST)

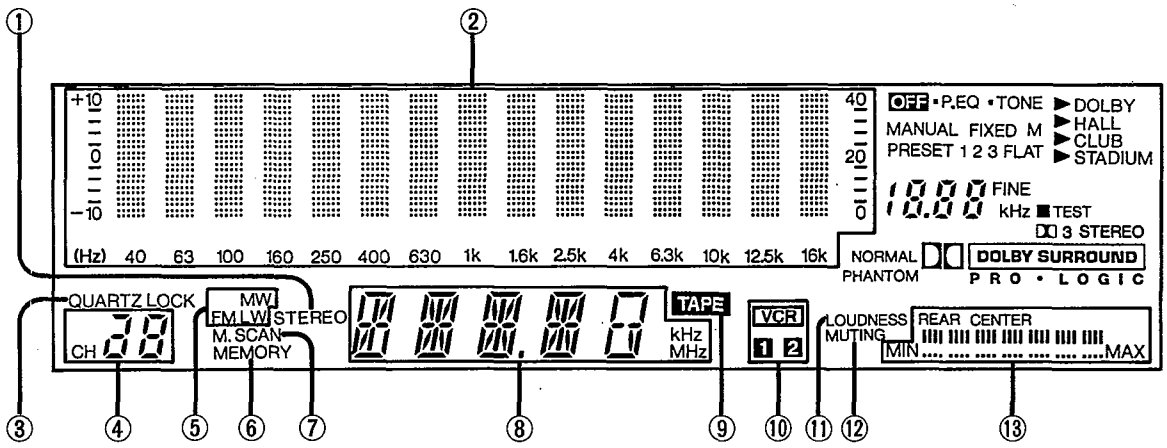
This button is used to output the test signal for adjusting the volume balance of the center and/or rear speakers when Dolby Pro-Logic Surround or Dolby 3 stereo mode is selected.

㉕ Center speaker level adjustment buttons (CENTER LEVEL)

These buttons are used to adjust the volume level of the center speaker.

㉖ Rear speaker level adjustment buttons (REAR LEVEL)

These buttons are used to adjust the volume level of the rear speakers.



Display section

① FM stereo indicator (STEREO)

This indicator automatically illuminates when an FM stereo broadcast is being received.

Note:

It will not illuminate if the FM mode selector is set to the monaural mode.

② Spectrum analysis/parametric EQ level display (SPECTRUM ANALYZER/PARAMETRIC EQ)

This display shows the spectrum analysis level ("Bar-type display" or "Dot display") or equalization level.

③ Quartz-lock indicator (QUARTZ LOCK)

This indicator illuminates when the unit is tuned precisely to a broadcast station.

④ Channel display

This display shows the channel number selected by the preset-tuning button(s).

Also this display shows the channel number for about 3 seconds during memory scan operation.

⑤ Band indicators (FM, LW, MW)

Indicates the selected band.

⑥ Memory indicator (MEMORY)

This indicator illuminates when the memory button is pressed.

⑦ Memory scan indicator (M. SCAN)

This indicator illuminates when the memory scan button is pressed.

⑧ Input selector/frequency display (INPUT SELECTOR/FREQUENCY)

Displays the selected source or broadcast frequency.

⑨ Tape indicator (TAPE)

This indicator illuminates when the tape-monitor button is pressed.

⑩ VCR display (VCR)

Displays the selected VCR.

⑪ Loudness indicator (LOUDNESS)

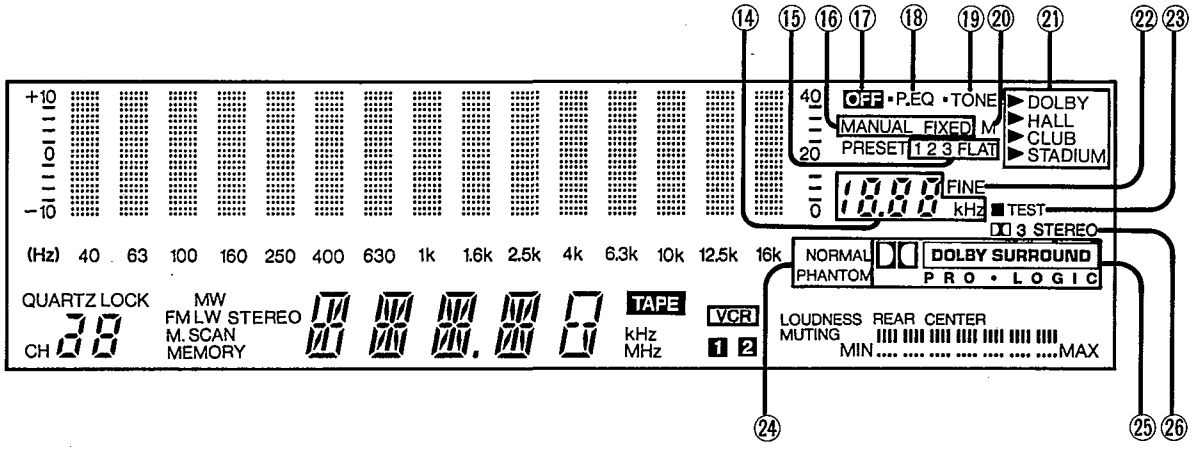
This indicator illuminates when the loudness button is pressed.

⑫ Muting indicator (MUTING)

This indicator illuminates when the muting button (on the remote control transmitter) is pressed.

⑬ Rear/center level indicator

Displays the level adjusted by the center speaker level adjustment buttons or rear speaker level adjustment buttons.



⑭ Parametric EQ system center frequency display

It displays the center frequency of the curves in the parametric EQ mode arranged by the user with the parametric EQ system or the curves pre-programmed in this unit's memory.

⑮ Manual/fixed preset indicators (1 2 3 FLAT)

It displays the type of curve selected with the equalization preset buttons or fixed preset button in the parametric EQ mode.

⑯ Parametric EQ system operation select indicators (MANUAL/FIXED)

One of these indicators illuminates in accordance with the fixed preset button or equalization preset buttons setting.

⑰ Parametric EQ system off indicator (OFF)

This indicator illuminates when the parametric EQ system is off.

⑱ Parametric EQ mode indicator (P.EQ)

This indicator illuminates when the parametric EQ/tone mode select button is set to the parametric EQ mode.

⑲ Tone mode indicator (TONE)

This indicator illuminates when the parametric EQ/tone mode select button is set to the tone mode.

⑳ Parametric EQ system memory indicator (M)

This indicator illuminates when the parametric EQ system memory button is pressed in the parametric EQ mode.

㉑ Surround mode display

This display shows the surround mode selected by the surround mode select button.

㉒ Fine mode indicator (FINE)

This indicator illuminates when the fine mode select button is pressed in the parametric EQ mode.

㉓ Test signal indicator (■ TEST)

This indicator illuminates when the test signal button is pressed in the Dolby Pro-Logic Surround mode and the Dolby 3 stereo mode.

㉔ Center mode indicators (NORMAL/PHANTOM)

These indicators show the center mode selected by the center mode select button.

㉕ Dolby Pro-Logic Surround indicator (DOLBY SURROUND, PRO-LOGIC)

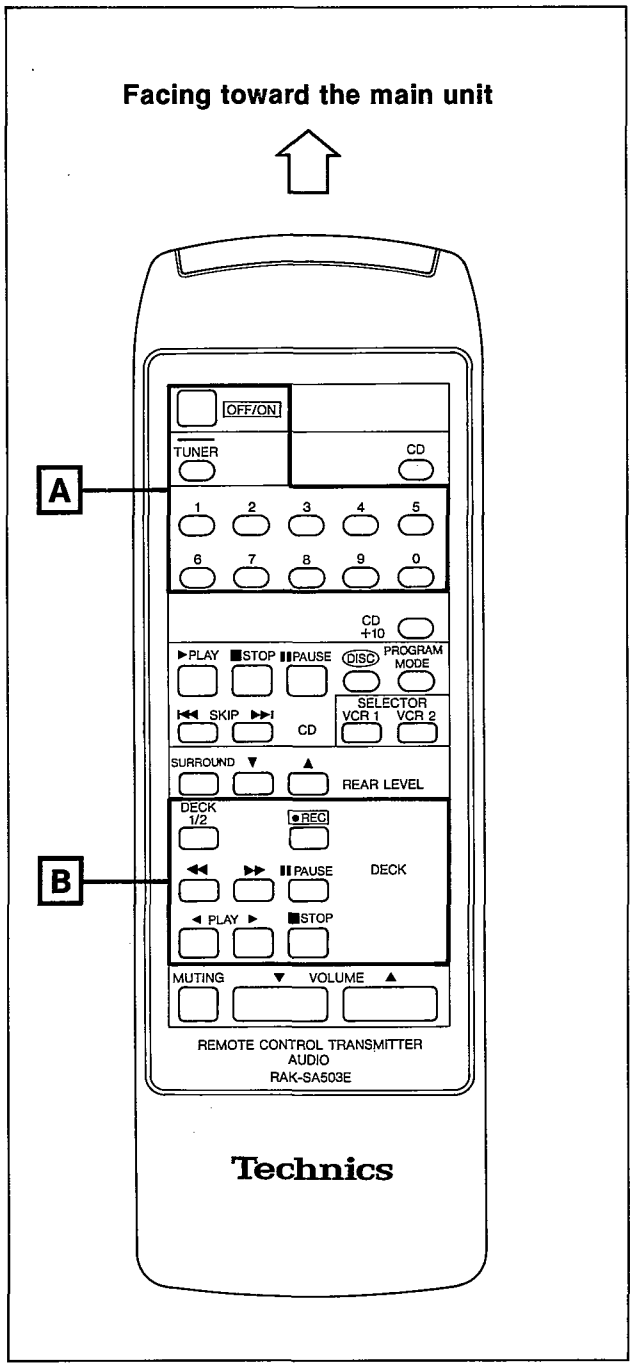
This indicator illuminates when the Dolby Pro-Logic Surround mode is selected.

㉖ Dolby 3 stereo indicator (3 STEREO)

This indicator illuminates when the Dolby 3 stereo ON/OFF button is switched ON.

■ REMOTE CONTROL OPERATION

- This remote control transmitter can be used for control of a Technics cassette tape deck or a compact disc player with a remote control terminal.
  Consult your dealer for details.
- For detailed information concerning operation steps, etc., please refer to the appropriate page for each unit and the respective operating instructions.
- For this system, you can listen to tapes or compact discs, etc., by operating the remote control transmitter without using this unit's input selector buttons.
- Make sure that the power of each unit is set to the "ON" position, before beginning the operations.



A Tuner controls

TUNER
Press this button first to use the "OFF/ON" button or the 1 – 0 buttons.

OFF/ON
This button can be used for ON and OFF switching of this unit.
When switching the power ON and OFF, be sure to first press the "TUNER" button.

1 – 0
Press these buttons to select the desired preset channel.
When these buttons are used, be sure to first press the "TUNER" button.

To designate channels 1–9:
Press the appropriate numeric button (1–9).
Note: When selecting channel 1, 2 or 3 enter the selection "01", "02" or "03". If only "1", "2" or "3" is pressed, channel access will be delayed by two seconds.

To designate channels 10–30:
① Press the button for the "tens" digit (1, 2 or 3).
② Press the button for the "units" digit (1–0) within 2 seconds after pressing the first button.

Note:
If the interval between pressing the first button and pressing the second button is more than about 2 seconds, the setting may not be made correctly. If this happens, make the setting once again.

B Tape deck controls

DECK 1/2
Press this button to select the deck ("DECK 1" or "DECK 2") to be controlled.

● REC
Press this button to change to the recording stand-by mode.

◀◀ , ▶▶
Press one of these buttons to advance or rewind the tape while the unit is in the stop mode.
Press one of these buttons to select the desired tune while the unit is in the play mode. (Only applicable to a Technics tape deck with the "music select" functions.)

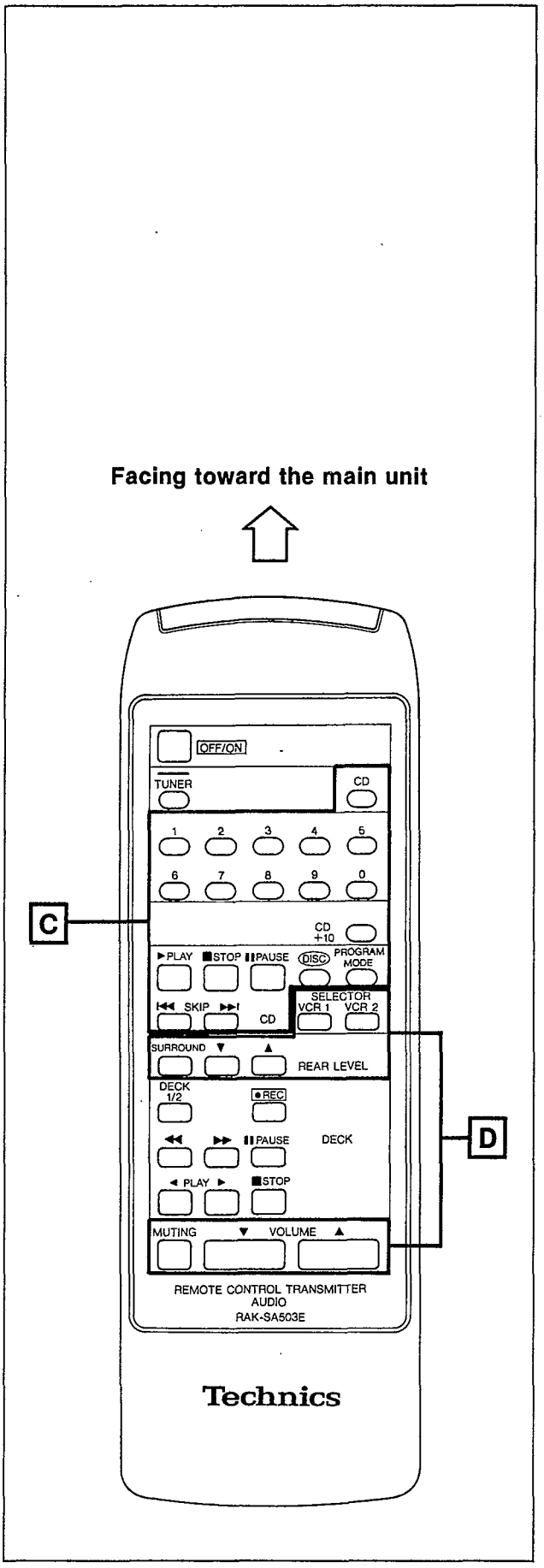
❚❚ PAUSE
Press this button to temporarily stop playback or recording.
Press the playback button to resume the playback or recording.

◀ PLAY ▶
Press one of these buttons to begin playback or recording, pressing the button corresponding to the side of the tape to be played back (or recorded).
▶ : For the "forward (A)" side of the tape
◀ : For the "reverse (B)" side of the tape

Note:
Depending on which Technics tape deck is used in combination with this unit, tape deck 1 might be the "A"-side playback-only type.

■ STOP
Press this button to stop tape movement.

Note
Depending on which Technics tape deck is used in combination with this unit, the pause of the playback (and the recording), and the recording functions of tape deck 1 might not be possible.



C Compact disc player controls

CD
Press this button first to use the 1 – +10 buttons.

1 – +10
Press these buttons to select the desired track.
Playback begins from the track selected.
When these buttons are used, be sure to first press the "CD" button.
Tracks 1–9:
Press the appropriate numeric button (1 – 9) directly.
To select a two-digit track number over 10:
Press the (+10) button the necessary number of time to select the "tens" digit, and then one of the (1 – 9) buttons to select the "units" digit.

▶ PLAY
Press this button to start play.

■ STOP
Press this button to stop play.

❚❚ PAUSE
Press this button to temporarily stop play.
Press the play button to resume play.

DISC
If a Technics multi compact disc player is used in combination with this unit, the disc to be played can be selected by first pressing this button and then pressing the appropriate numeric button (1 – 5).

PROGRAM MODE
Press this button to select the desired play mode.
("PROGRAM" or "CONTINUE")

◀◀ SKIP ▶▶
Press one of these buttons briefly to move the pick-up to the beginning of a specific track.

Note:
When operating a compact disc player with a remote control sensor, face this remote control transmitter toward the remote control sensor of the compact disc player.

D Amplifier controls

SELECTOR
Press one of these buttons to switch this unit's input selector "VCR 1" or "VCR 2".

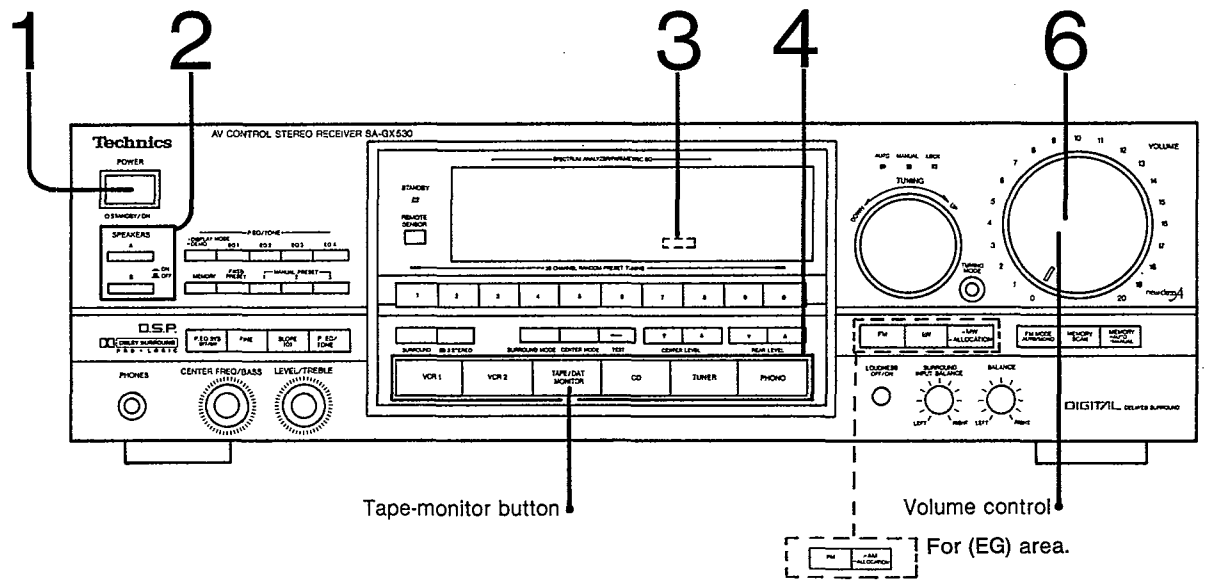
SURROUND
Press this button to switch the surround effect ON/OFF.

REAR LEVEL
Adjust the volume level of the rear speakers as desired.

MUTING
Press this button to temporarily reduce the volume level.
The volume level is attenuated by 20 dB (approx. 1/10).
Press once again to return to the previous volume level.

▼ VOLUME ▲
Press one of these buttons to adjust the volume level.

■ MUTUAL OPERATIONS



Before operation, set the volume control to the "0" position.

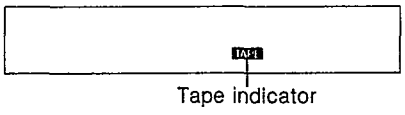
1 Set the power switch to ON.

2 Select the "A" and/or "B" speaker system(s) to be used.

3 Check to be sure the tape indicator is not illuminated.

To listen to sources other than a tape be sure to turn off the tape indicator.

If the tape indicator is illuminated:
Press the tape-monitor button.



Tape indicator

4 Select the audio or video source.

VCR 1: Press to watch video tapes from the VCR connected to the "VCR 1" terminals.
VCR 2: Press to watch vieo tapes from the VCR or video discs from the laser disc player connected to the "VCR 2" terminals.
TAPE/DAT MONITOR: Press to listen to tape or DAT. (The tape indicator will illuminate.)

When listening to tapes is finished, be sure to press the tape-monitor button to turn off the tape indicator.

CD: Press to listen to compact discs.
TUNER: Press to listen to radio broadcasts.
PHONO: Press to listen to phono discs.
Note:
It is recommended that the power to the compact disc player should be switched OFF when it is not being used.

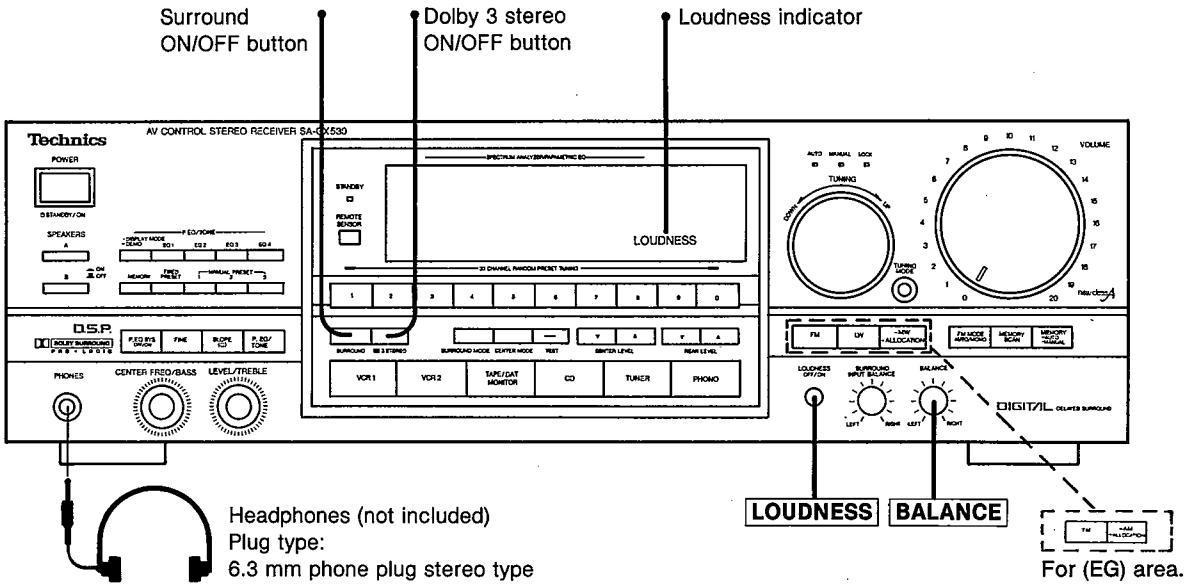
5 Start the audio or video source.

(Refer to the appropriate operating instructions for details).

6 Adjust the volume level.

After listening is finished

Be sure to reduce the volume level, and switch the power to standby mode from the remote control transmitter or by the power " ⏻ STANDBY/ON" switch of this unit.
Note: The input selection, sound mode, loudness and the muting settings will be retained (as they were at the time when the power was switched to standby mode) by the memory back-up function.



To listen to a desired audio source while watching video picture

1. Follow steps 1 – 3 at the left.

2. Select the desired video source and audio source in step 4 at the left.
Be sure to select the video source first.

3. Start the video and audio source.

When listening through headphones

- Use the volume control to reduce the volume level, and connect the headphones to the headphones jack.
- If sound from the speakers is not wanted, set the speaker selectors ("SPEAKERS") to the "OFF" position.
- Set the Dolby 3 stereo ON/OFF button and surround ON/OFF button to OFF when the center speaker and/or rear speakers are connected.
- Avoid listening for prolonged periods of time to prevent hearing damage.

To emphasize low-frequency sound

LOUDNESS

Set the loudness button to "ON" position.

The loudness indicator will illuminate.
(Refer to item ⑪ on page 8.)

To adjust the left/right sound balance

BALANCE

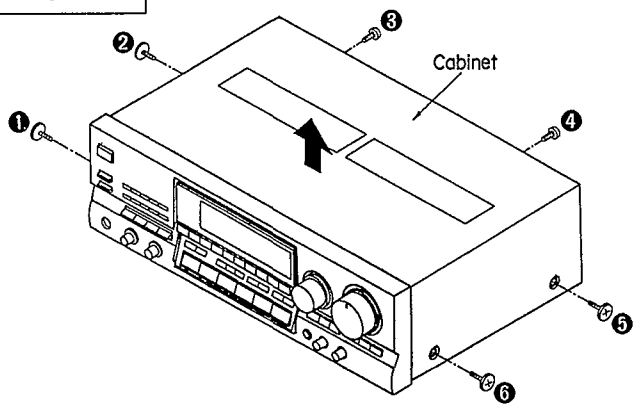
Adjust the balance control.

■ DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1	Removal of the cabinet

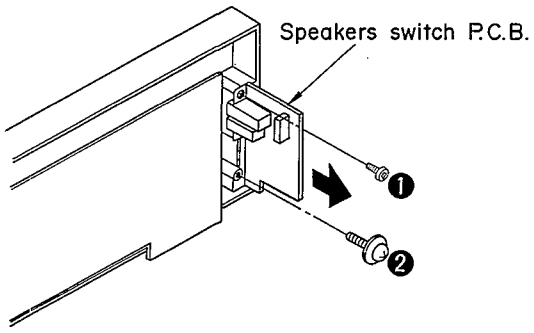
Procedure 1



• Remove the 6 screws (❶~❻).

Ref. No. 3	Removal of the speakers switch P.C.B.

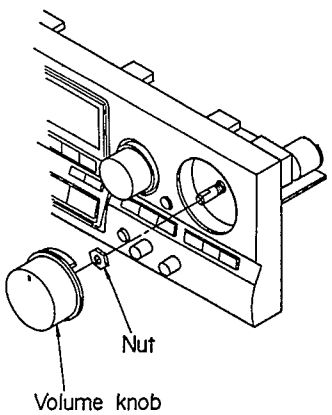
Procedure 1→2→3



• Remove the 2 screws (❶, ❷).

Ref. No. 4	Removal of the volume P.C.B.

Procedure 1→2→4

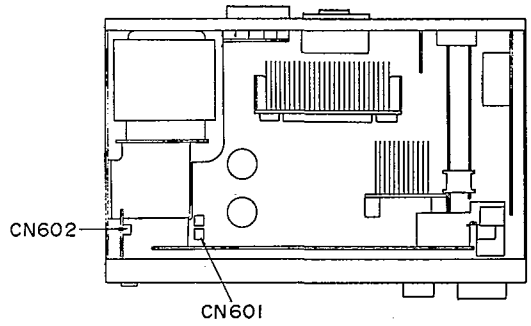


1. Pull out the volume knob.
2. Remove the nut.

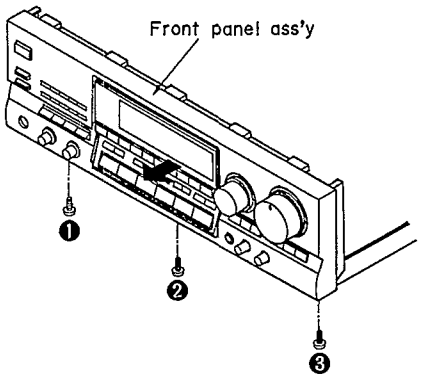
Ref. No. 2	Removal of the front panel ass'y

Procedure 1→2

1. Remove the 2 flat cables (CN601, CN602).

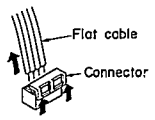


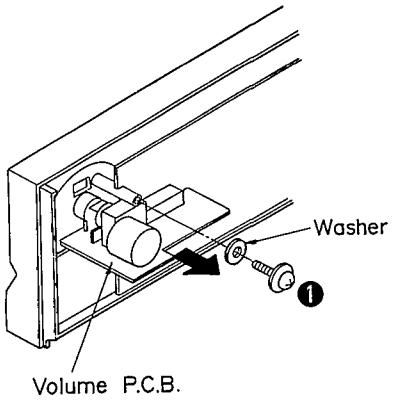
2. Remove the 3 screws (❶~❸).
3. Remove the front panel ass'y in the direction of arrow.



Removal of the flat cable

1. Lift the connector.
2. Pull out the flat cable.

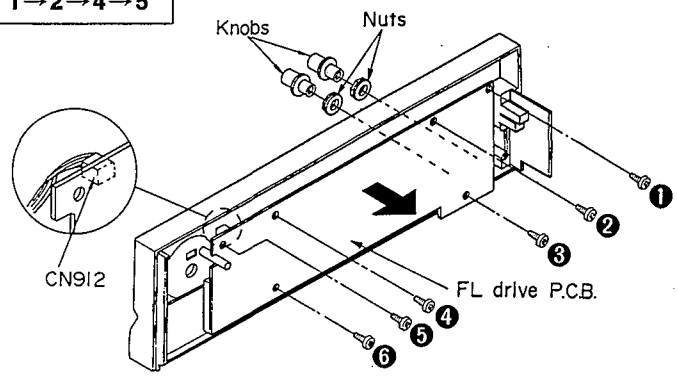




3. Remove the 1 screw (❶) and the washer.
4. Remove the volume P.C.B. in the direction of arrow.

Ref. No. 5	Removal of the FL drive P.C.B.

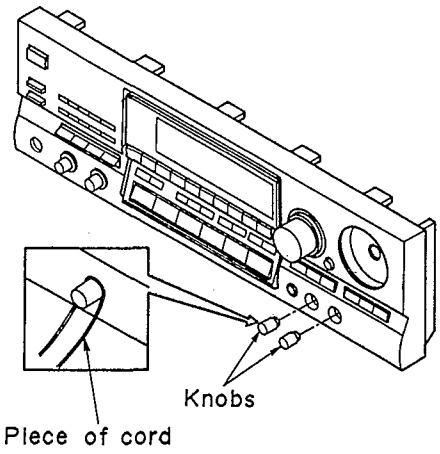
Procedure
1→2→4→5



1. Remove the 2 knobs.
2. Remove the 2 nuts.
3. Remove the 6 screws (❶~❻).
4. Remove the FL drive P.C.B in the direction of arrow.
5. Remove the 1 flat cable (CN912).

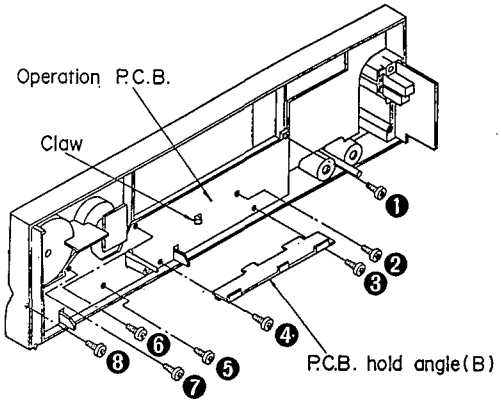
Ref. No. 6	Removal of the operation P.C.B.

Procedure
1→2→4→5
→6



※ If the knob is difficult to remove, wrap a piece of cord or something similar around it to remove it.

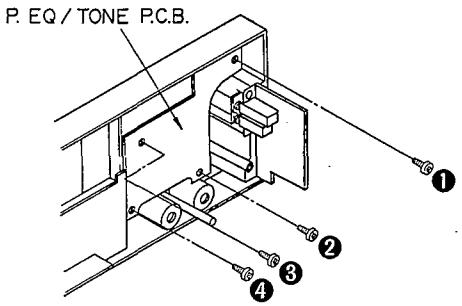
1. Remove the 2 knobs.



2. Remove the 8 screws (❶~❽).
3. Remove the P.C.B. hold angle (B).
4. Release the 1 claw.

Ref. No. 7	Removal of the P. EQ/TONE P.C.B.

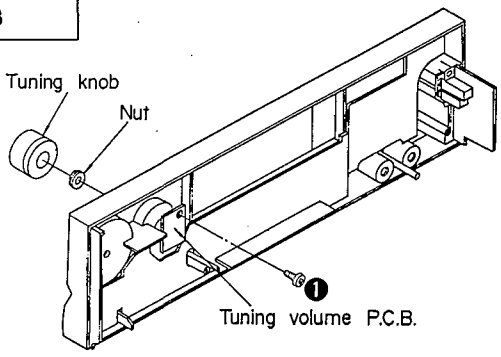
Procedure
1→2→4→5
→7



• Remove the 4 screws (❶~❹).

Ref. No. 8	Removal of the tuning volume P.C.B.

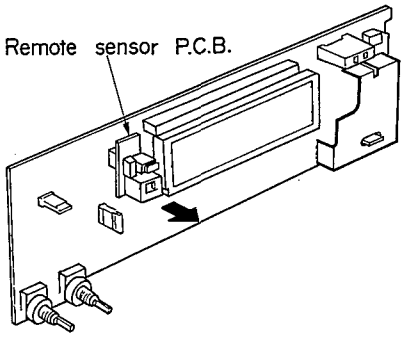
Procedure
1→2→4→5
→8



1. Pull out the tuning knob.
2. Remove the nut.
3. Remove the 1 screw (❶).

Ref. No. 9	Removal of the remote sensor P.C.B.

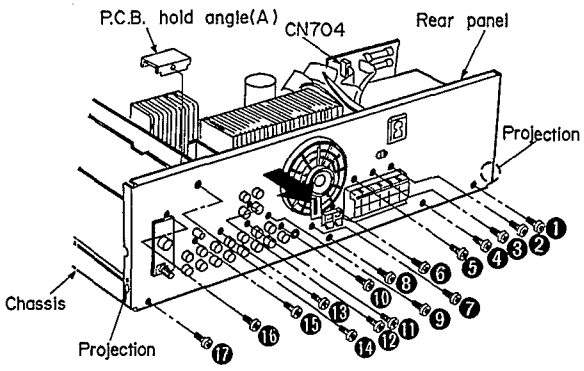
Procedure
1→2→4→5
→9



• Remove the remote sensor P.C.B. in the direction of arrow.

Ref. No. 10	Removal of the rear panel

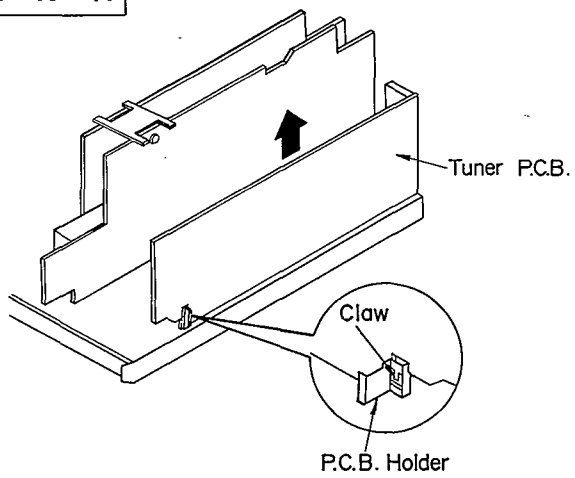
Procedure 1→10



1. Remove the 1 flat cable (CN704).
2. Remove the 17 screws (❶~⑰).
3. Remove the P.C.B. hold angle (A).
4. Remove the rear panel from the projection of the chassis.

Ref. No. 11	Removal of the tuner P.C.B.

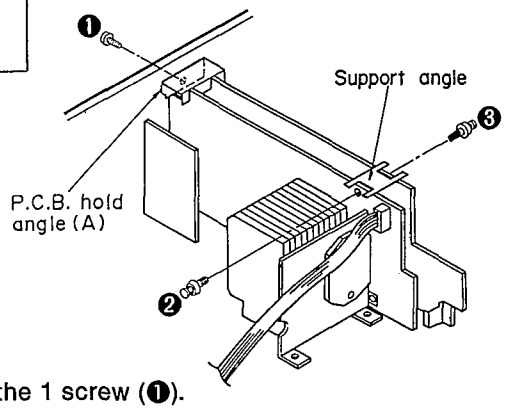
Procedure 1→2→10→11



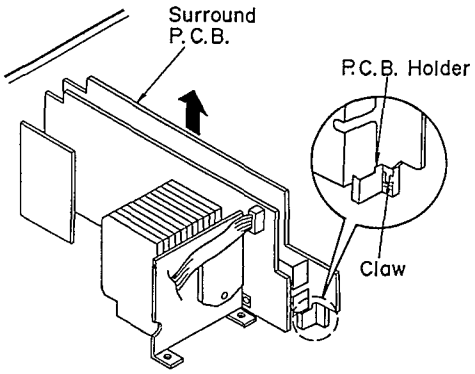
1. Release the 1 claw.
2. Remove the tuner P.C.B. in the direction of arrow.

Ref. No. 12	Removal of the surround P.C.B.

Procedure 1→2→12



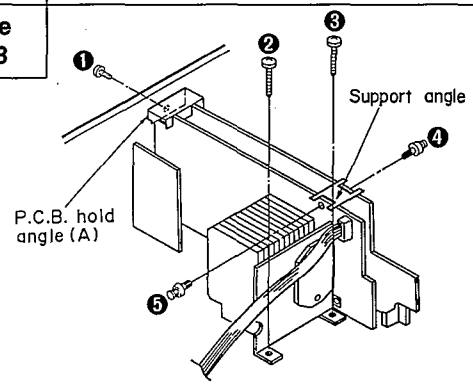
1. Remove the 1 screw (❶).
2. Remove the P.C.B. hold angle (A).
3. Remove the 2 latches (❷, ❸).
4. Remove the support angle.



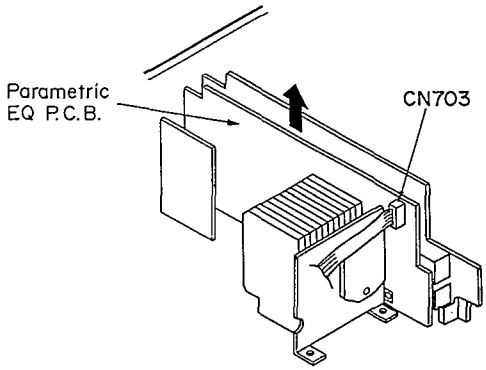
5. Release the 1 claw.
6. Remove the surround P.C.B. in the direction of arrow.

Ref. No. 13	Removal of the parametric EQ P.C.B.

Procedure 1→2→13



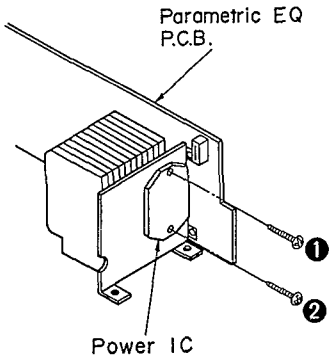
1. Remove the 3 screws (❶~❸).
2. Remove the P.C.B. hold angle (A).
3. Remove the 2 latches (❹, ❺).
4. Remove the support angle.



5. Remove the 1 flat cable (CN703).
6. Remove the parametric EQ P.C.B. in the direction of arrow.

Ref. No. 14	Removal of the power IC

Procedure 1→2→13→14

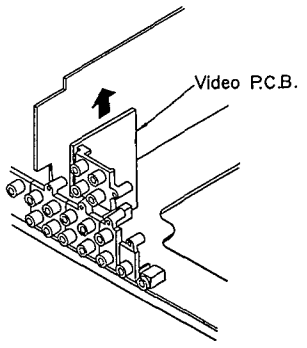


1. Unsolder the power IC.
2. Remove the 2 screws (❶, ❷).

• When mounting the power IC, apply silicon thermal compound (RFKX0002 or equivalent) to the rear of the power IC.

Ref. No. 15	Removal of the video P.C.B.

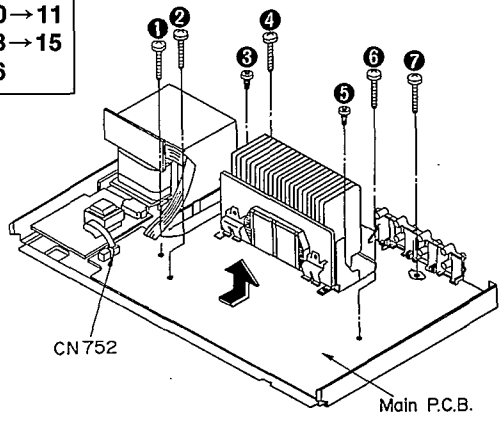
Procedure 1→2→10→15



• Remove the video P.C.B. in the direction of arrow.

Ref. No. 16	Removal of the main P.C.B.

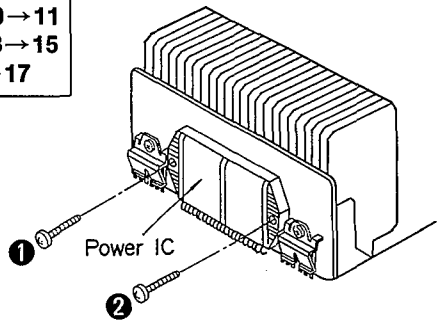
Procedure 1→2→10→11→12→13→15→16



1. Remove the 1 flat cable (CN752).
2. Remove the 7 screws (❶~❼).
3. Remove the main P.C.B. in the direction of arrow.

Ref. No. 17	Removal of the power IC

Procedure 1→2→10→11→12→13→15→16→17



1. Unsolder the power IC.
2. Remove the 2 screws (❶, ❷).

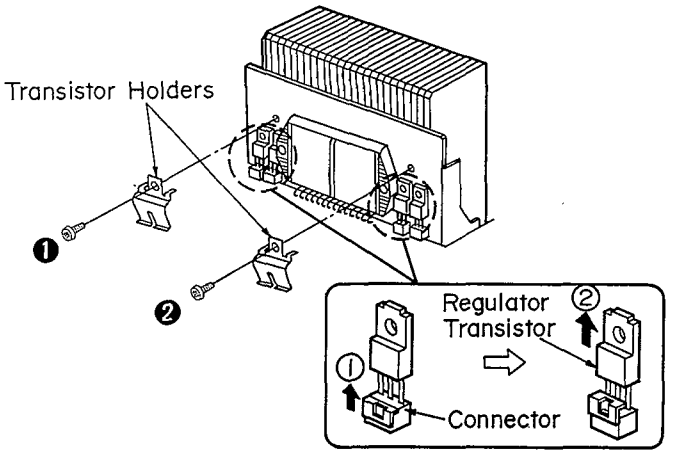
• **When mounting the power IC.**
Apply silicone compound (RFKX0002) to the rear side of power IC.

Ref. No. 18	Removal of the regulator transistor

Procedure 1→2→13→18

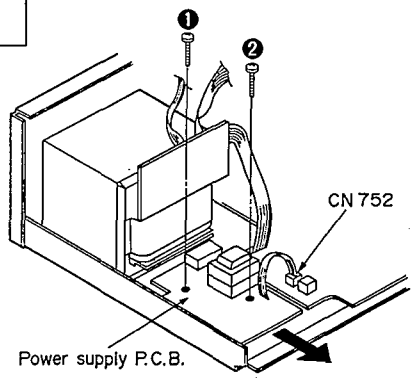
1. Remove the 2 screws (❶, ❷).
2. Remove the 2 transistor holders.
3. Lift up the connector in the direction of arrow ①.
4. Remove the regulator transistor in the direction of arrow ②.

• When mounting the regulator transistor.
Apply silicone compound (RFKX0002) to the rear side of power IC.



Ref. No. 18	Removal of the power supply P.C.B.

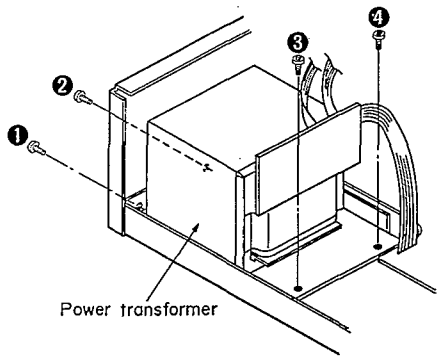
Procedure 1→2→18



1. Remove the 1 flat cable (CN752).
2. Remove the 2 screws (❶, ❷).
3. Remove the power supply P.C.B. in the direction of arrow.

Ref. No. 19	Removal of the power transformer

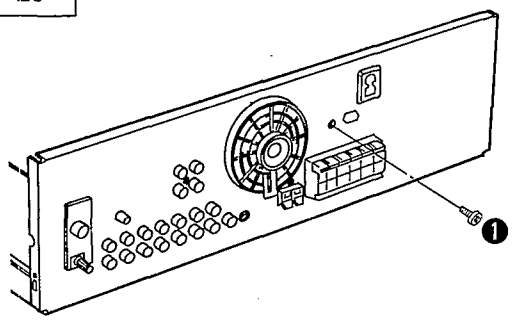
Procedure 1→2→18→19



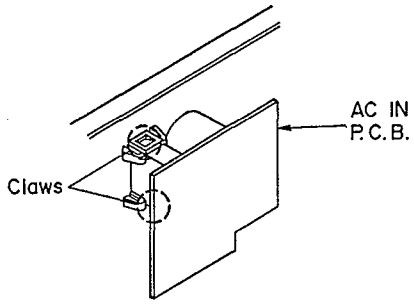
• Remove the 4 screws (❶~❹).

Ref. No. 20	Removal of the AC IN P.C.B.

Procedure 1→10→20



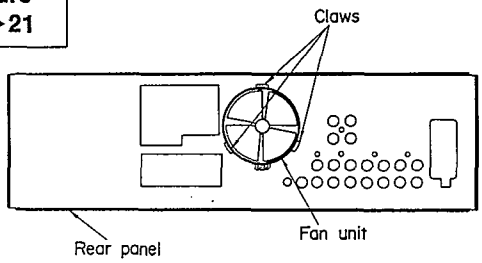
1. Remove the 1 screw (❶).



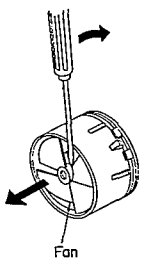
2. Release the 2 claws.

Ref. No. 21	Removal of the cooling fan motor

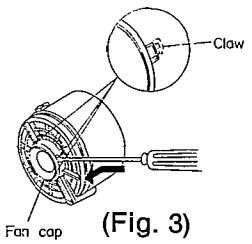
Procedure 1→10→21



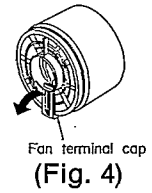
(Fig. 1)



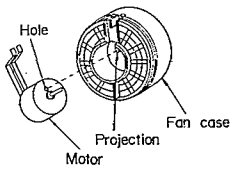
(Fig. 2)



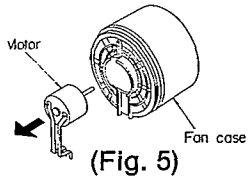
(Fig. 3)



(Fig. 4)



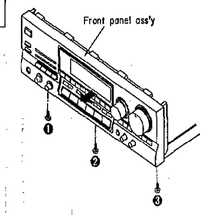
(Fig. 6)

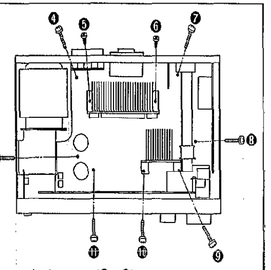


(Fig. 5)

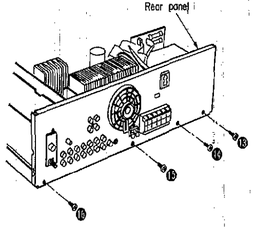
1. Release the 3 claws. (See **Fig. 1**)
2. Insert a screwdriver at the root of the fan. Force it out of the motor shaft. (See **Fig. 2**)
3. Remove the fan cap by used ⊖ screwdriver. (See **Fig. 3**)
4. Remove the fan terminal cap in the direction of arrow. (See **Fig. 4**).
5. Remove the motor from the fan case. (See **Fig. 5**).
6. When mounting the motor, align the fan casing's projection with the hole of the motor. (See **Fig. 6**).

Ref. No. 22	How to check the main P.C.B.
Procedure 1→22	

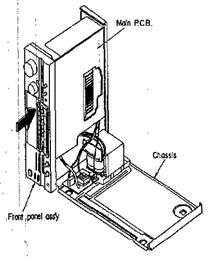




1. Remove the 3 screws (❶~❸).
2. Remove the front panel ass'y in the direction of arrow.



4. Remove the 4 screws (⑬~⑯).



3. Remove the 9 screws (❹~⑫).
5. Remove the chassis.
6. Reinstall the front panel ass'y to the main P.C.B.

■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:
- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function 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 the amplifier are used.

If this occurs, follow the procedure outlines below:
1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note:
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

■ BEFORE REPAIR AND ADJUSTMENT

Disconnect AC power, Discharge both Power Supply Capacitors C703 and C704 through a 10Ω, 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may distroy solid state devices. After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at 50Hz/60Hz in NO SIGNAL mode should be shown below with respect to supply voltage 230V/240V.

Power supply voltage	AC 230V		AC 240V	
Consumed current 50/60Hz	50Hz	0.24~0.55A	50Hz	0.22~0.52A
	60Hz	0.21~0.50A	60Hz	0.20~0.47A

■ MEASUREMENTS AND ADJUSTMENTS

Note: For Z201 (AM (MW/LW) ANT and OSC coil), Z202 (AM (MW/LW)-IFT), they are supplied as adjusted parts. So, do not turn the cores of the parts. It is not necessary to adjust the AM (MW/LW) circuit.

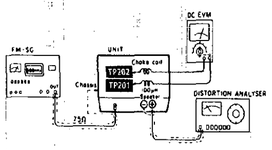
• FM ADJUSTMENT

Control positions and equipment used
- FM signal generator (FM-SG).
- Distortion analyser
- DC electronic voltmeter (DC EVM)
- Frequency counter
- Choke coil (100μH)
- Resistor (100kΩ)

FM MONO DISTORTION ADJUSTMENT
1. Test equipment connection is shown in figure.
2. Set the unit to "**FM**" position.
3. Set the radio frequency display and signal generator to **100.10MHz**.
4. Adjust **T201** core so that voltage measured in signal mode is **0mV (0±20mV)** in **300mV** range.
5. Adjust **T202** so that the distortion factor of Lch is minimized.
6. Repeat steps 4 and 5 a few times.
7. Make sure that the distortion factors of Lch and Rch are nearly the same with each other to minimum.

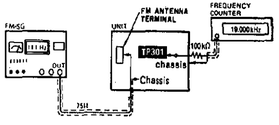
Note:
The adjusting screwdriver used should be made of resin.

FM SIGNAL GENERATOR CONDITION
Modulation.....100%
Modulation frequency.....1kHz (MONO)
Output level.....66dB

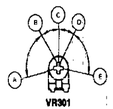


FM MPX VCO ADJUSTMENT
1. Test equipment connection is shown in figure.
2. Set the unit to "**FM auto**" position.
3. Set the radio frequency display and signal generator to **100.10MHz**.
4. Adjust **VR301** for **19.00±0.03kHz** on frequency counter reading.

FM SIGNAL GENERATOR CONDITION
Modulation.....0%
(non-modulation)
Output level.....66dB



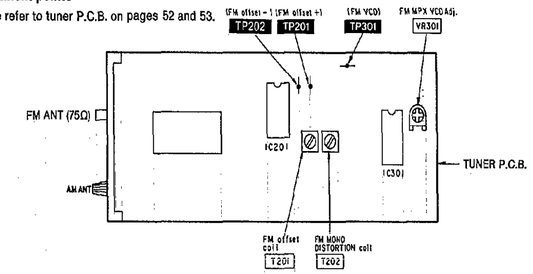
★USING ALTERNATE SYSTEM
1. Apply stereo signal from generator or receive the stereo broadcast.
2. Adjust **VR301** until stereo indicator lights up. Cement arm of **VR301** as shown in figure.



Ⓐ - Ⓑ Ⓓ - Ⓔ : Stereo OFF position
Ⓑ - Ⓒ : Stereo ON position (indicator lighting)
Ⓒ : Adjust point of Pilot circuit

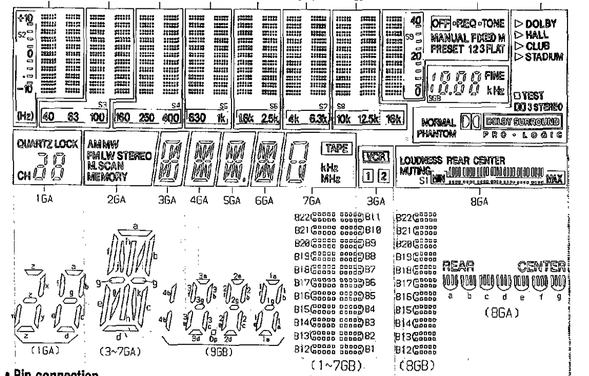
• Adjustment points

Please refer to tuner P.C.B. on pages 52 and 53.



■ INTERNAL CONNECTION OF FL

• Grid connection diagram



• Pin connection

NOTE 1) F1,F2 --------- Filament 3) 1~8GA,1~9GB ---- Grid
2) NP ---------- No pin

• Anode connection table (A)

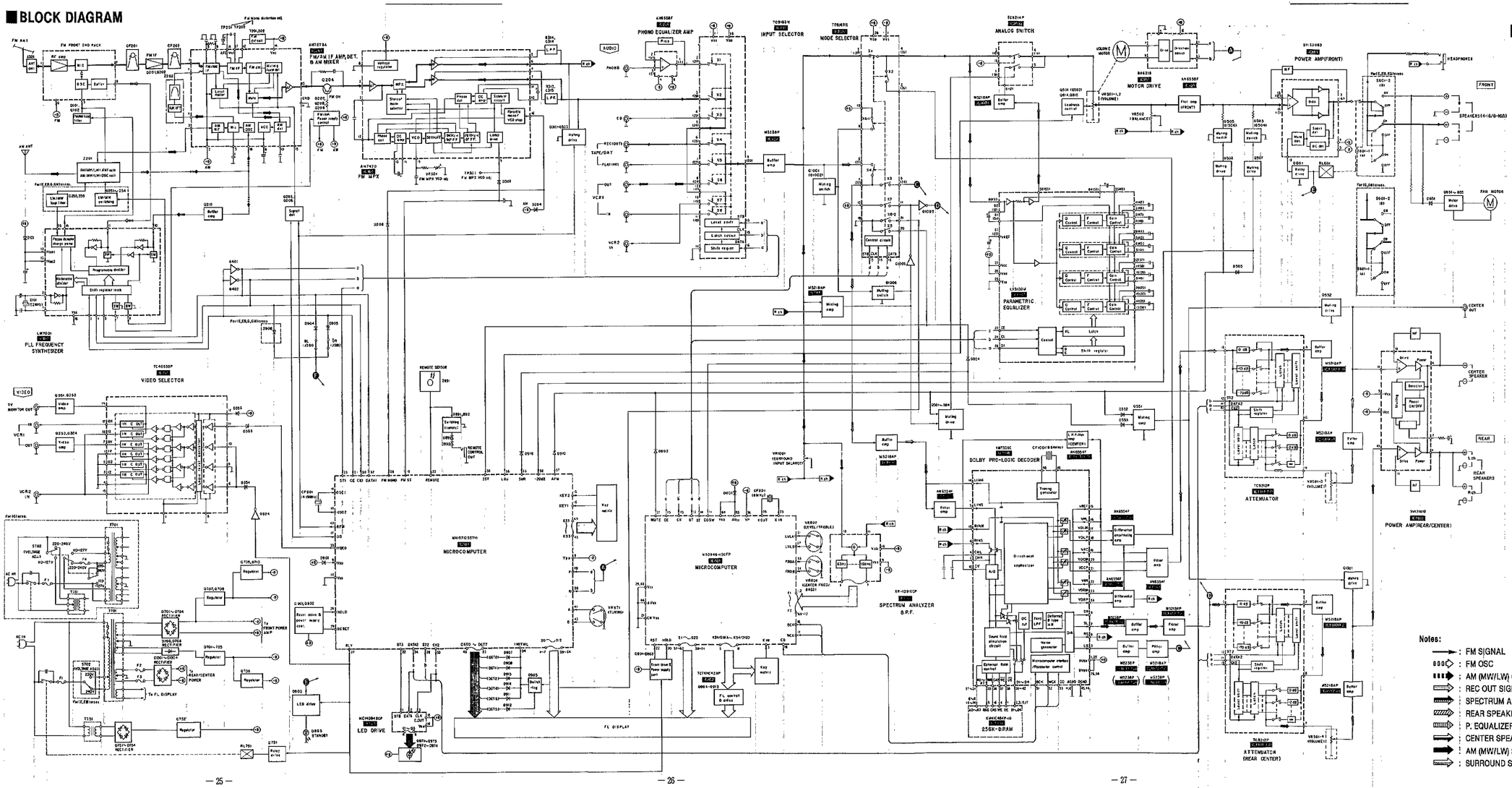
	1GA	2GA	3GA	4GA	5GA	6GA	7GA	8GA
P1A	a	-	a	a	a	a	a	SI
P2A	x	-	i, ℓ	j	j	j	-	a
P3A	y	AM	h	h	h	h	TAPE	b
P4A	z	MW	1	i	i	i	-	c
P5A	f	FM	f	f	f	f	f	d
P6A	b	LW	b	b	b	b	b	e
P7A	g	-	g	g	g	g	g	f
P8A	e	-	e	e	e	e	e	g
P9A	c	M.SCAN	c	c	c	c	c	MUTING
P10A	w	MEMORY	2	0	0	0	kHz	LOUDNESS
P11A	d	-	d	d	d	d	d	REAR
P12A	QUARTZ LOCK	-	VCR	k	k	k	k	CENTER
P13A	CH	STEREO (LW)	-	-	s	-	MHz	-

• Anode connection table (B)

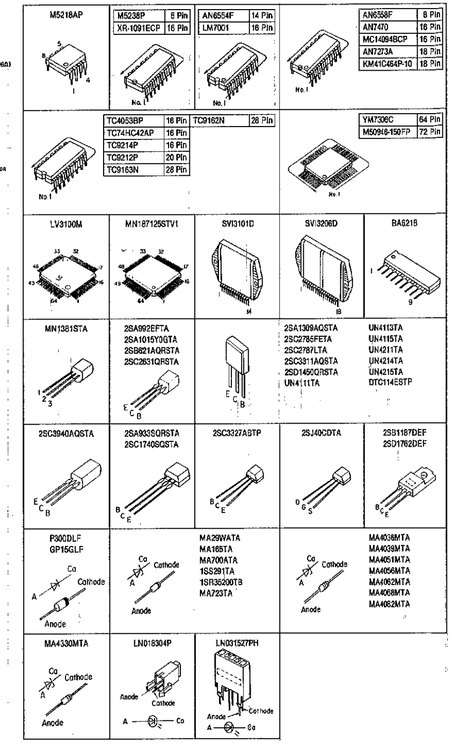
	1GB	2GB	3GB	4GB	5GB	6GB	7GB	8GB	9GB	10GB
P1B	S2	S3	S4	S5	S6	S7	S8	S9	Hz	DOLBY HALL CLUB STADIUM
P2B	B1	B1	B1	B1	B1	B1	B1	M	Dp k	DOLBY SURROUND PRO LOGIC
P3B	B2	B2	B2	B2	B2	B2	B2	PRESET	FINE	3 STEREO
P4B	B3	B3	B3	B3	B3	B3	B3	FIXED	1a	PHANTOM
P5B	B4	B4	B4	B4	B4	B4	B4	MANUAL	1b	NORMAL
P6B	B5	B5	B5	B5	B5	B5	B5	3	1e	-
P7B	B6	B6	B6	B6	B6	B6	B6	2	1f	TEST
P8B	B7	B7	B7	B7	B7	B7	B7	1	1g	-
P9B	B8	B8	B8	B8	B8	B8	B8	FLAT	2c	-
P10B	B9	B9	B9	B9	B9	B9	B9	PEQ	2b	-
P11B	B10	B10	B10	B10	B10	B10	B10	TONE	2d	-
P12B	B11	B11	B11	B11	B11	B11	B11	OFF	2g	-
P13B	B12	B12	B12	B12	B12	B12	B12	B12	2a	-
P14B	B13	B13	B13	B13	B13	B13	B13	B13	2e	-
P15B	B14	B14	B14	B14	B14	B14	B14	B14	2f	-
P16B	B15	B15	B15	B15	B15	B15	B15	B15	3c	-
P17B	B16	B16	B16	B16	B16	B16	B16	B16	3b	-
P18B	B17	B17	B17	B17	B17	B17	B17	B17	3d	-
P19B	B18	B18	B18	B18	B18	B18	B18	B18	3g	-
P20B	B19	B19	B19	B19	B19	B19	B19	B19	3a	▷ (STADIUM)
P21B	B20	B20	B20	B20	B20	B20	B20	B20	3e	▷ (CLUB)
P22B	B21	B21	B21	B21	B21	B21	B21	B21	3f	▷ (HALL)
P23B	B22	B22	B22	B22	B22	B22	B22	B22	4b	▷ (DOLBY)

SA-GX530 SA-GX530

BLOCK DIAGRAM



TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES



Notes:

- : FM SIGNAL
- : FM OSC
- : AM (MW/LW) OSC
- : REC OUT SIGNAL (Lch)
- : SPECTRUM ANALYZER SIGNAL (Lch)
- : REAR SPEAKER DRIVE SIGNAL (Lch)
- : P. EQUALIZER SIGNAL (Lch)
- : CENTER SPEAKER DRIVE SIGNAL (Lch)
- : AM (MW/LW) SIGNAL
- : SURROUND SIGNAL

■SCHEMATIC DIAGRAM (This schematic diagram may be modified at any time with the development of new technology.)

(Parts list on pages 66~69, 73~76.)

Note 1:

- S601 : Speaker selectors (SPEAKERS) switches. [S601-1: A, S601-2: B]
- S702 : Voltage adjustment switch.
- S801 : Display mode select (-DISPLAY MODE, -DEMO) switch.
- S802~805 : Parametric EQ band switches. [S802: EQ1, S803: EQ2, S804: EQ3 / S805: EQ4]
- S806 : Parametric EQ system ON/OFF (P. EQ SYS) switch.
- S807 : Fine mode (FINE) switch.
- S808 : Slope changeover [SLOPE (Q)] switch.
- S809 : Parametric EQ/tone mode select (P. EQ/TONE) switch.
- S810 : Parametric EQ system memory (MEMORY) switch.
- S811 : Fixed preset (FIXED PRESET) switch.
- S812~814 : Equalization preset (MANUAL PRESET) switches. [S812: 1, S813: 2, S814: 3]
- S815 : Surround mode select (SURROUND MODE) switch.
- S817 : Center mode select (CENTER MODE) switch.
- S818 : Test signal (TEST) switch.
- S819 : Dolby 3 stereo ON/OFF (3 STEREO) switch.
- S901~910 : Preset-tuning (1-0) (30 CHANNEL RANDOM PRESET TUNING) switches. [S901: 1, S902: 2, S903: 3, S904: 4, S905: 5, S906: 6, S907: 7, S908: 8, S909: 9, S910: 0]
- S911 : Dolby surround ON/OFF (SURROUND) switch.
- S912, 913 : Center speaker level adjustment (CENTER LEVEL) switches. [S912: ▼, S913: ▲]
- S914, 915 : Rear speaker level adjustment (REAR LEVEL) switches. [S914: ▼, S915: ▲]
- S916, 917, 921~923 : Input selector switches. [S916: PHONO, S917: TUNER, S921: VCR2 / S922: VCR1, S923: CD]
- S918 : Tape-monitor (TAPE/DAT MONITOR) switch.
- S925 : Loudness (LOUDNESS) switch.
- S926 : Tuning mode selector (TUNING MODE) switch. [AUTO↔MANUAL↔LOCK]
- S927, 928 : Band selector switches. [S927: FM, S928: AM]
- S929 : FM mode selector (FM MODE) switch.
- S930 : Memory scan (MEMORY SCAN) switch.
- S931 : Memory (MEMORY) switch.
- S932 : Power " ⏻ STANDBY/ON" switch.
- S933 : Band selector (LW) switch.
- Signal line
  - : FM OSC
  - : AM (MW/LW) OSC
  - : FM signal
  - : AM (MW/LW) signal
  - : Rec out signal (Lch)
  - : Spectrum analyzer signal (Lch)
  - : Rear speaker drive signal (Lch)
  - : P. equalizer signal (Lch)
  - : AF signal (Lch)
  - : Center speaker drive signal
  - : Surround signal
  - : Positive voltage lines
  - : Negative voltage lines

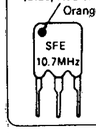
- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts. Indicated voltage values are standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on internal impedance of the DC circuit tester.
- All voltage values shown in circuitry are DC voltage in FM signal (Stereo signal) reception mode.
*Figures in ( ) Stand for DC-voltage in AM (MW) signal reception mode.
*Figures in ( ) Stand for DC-voltage in LW signal reception mode.
- The supply part number is described alone in the replacement parts list.

Ref. No.	Production Part No.	Supply Part No.
IC301	AN7470	SVIUPC1161C3
IC402, 1010, 1011	M5238P	M5238P-1
Z891	RCDHC-677-E	RCDHC-677

• 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.

Note 2:
• Use of ceramic filters in pairs
The ceramic filters (CF201, CF202) for FM-IF circuit are available in three ranks. For this circuit, be sure to use the ceramics of the same rank in a pair.
At repairing and replacement, pay close attention to the short jumpers (J380, J381) for use as different short jumpers must be used depending on each rank of the ceramic filters.

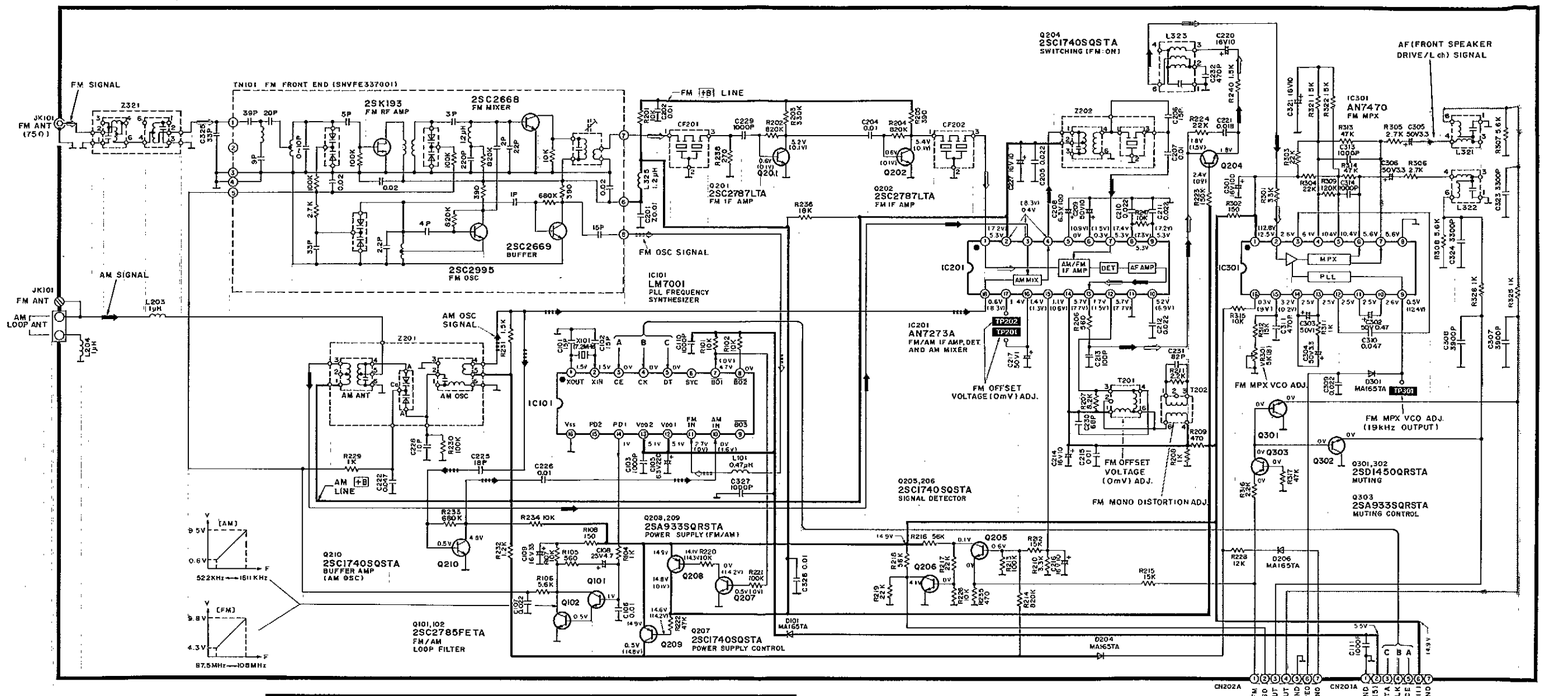
Color marking (Blue, Red or Orange)

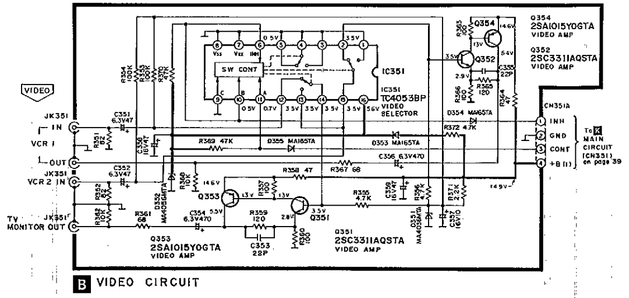


RANK (Color)	J381 (BL)	J380 (OR)	CENTER FREQUENCY
Blue	○	×	10.675MHz
Red	○	○	10.700MHz
Orange	×	○	10.725MHz

Note: ○ mark: short jumper is used.
× mark: short jumper is not used.

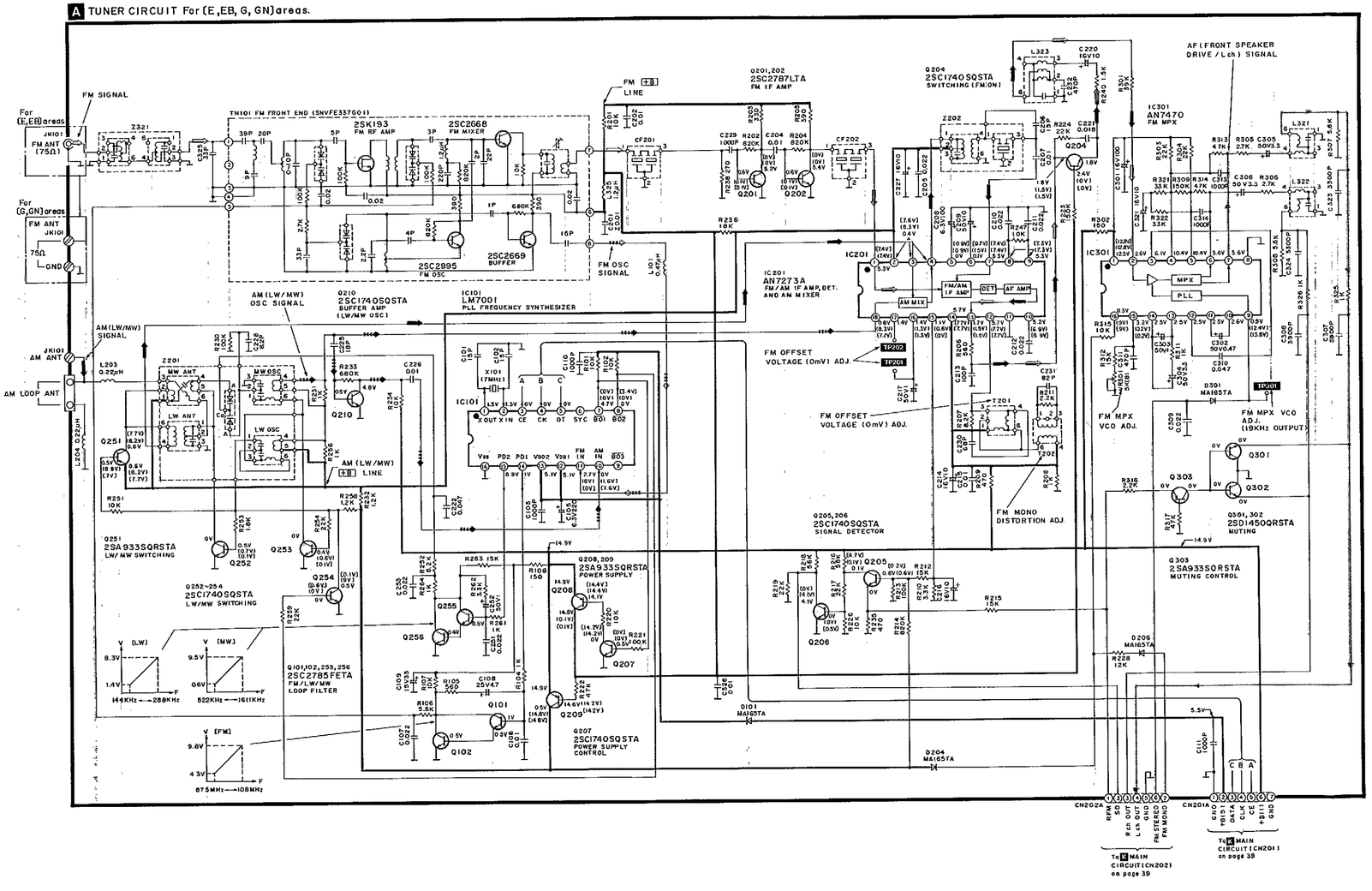
A TUNER CIRCUIT For [EG] area.



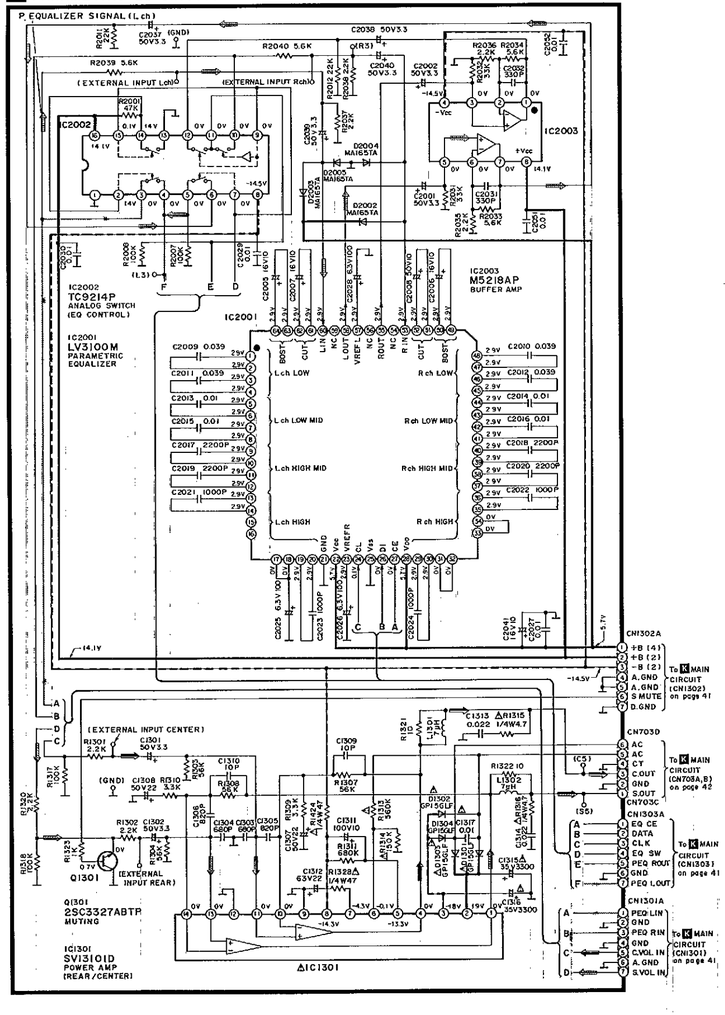


B VIDEO CIRCUIT

A TUNER CIRCUIT For (E,EB, G, GN)areas.

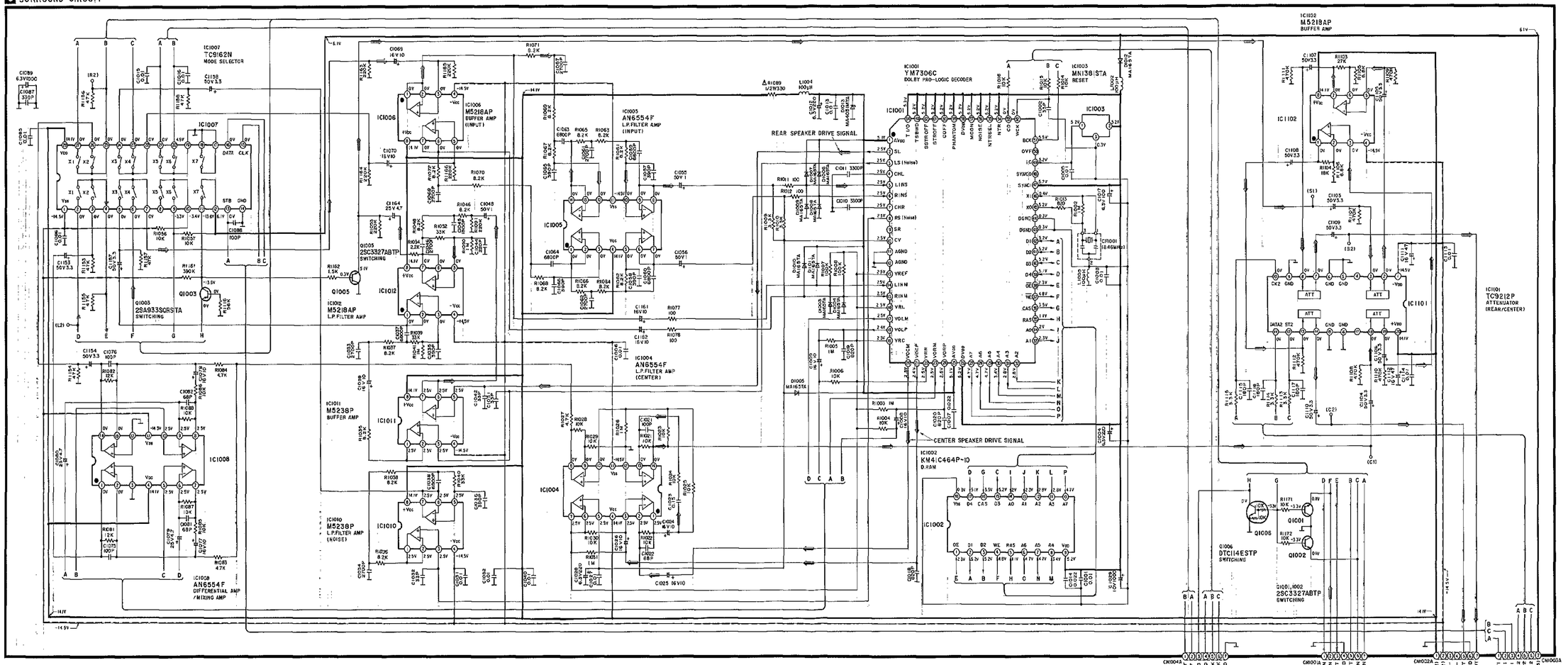


D PARAMETRIC EQ CIRCUIT



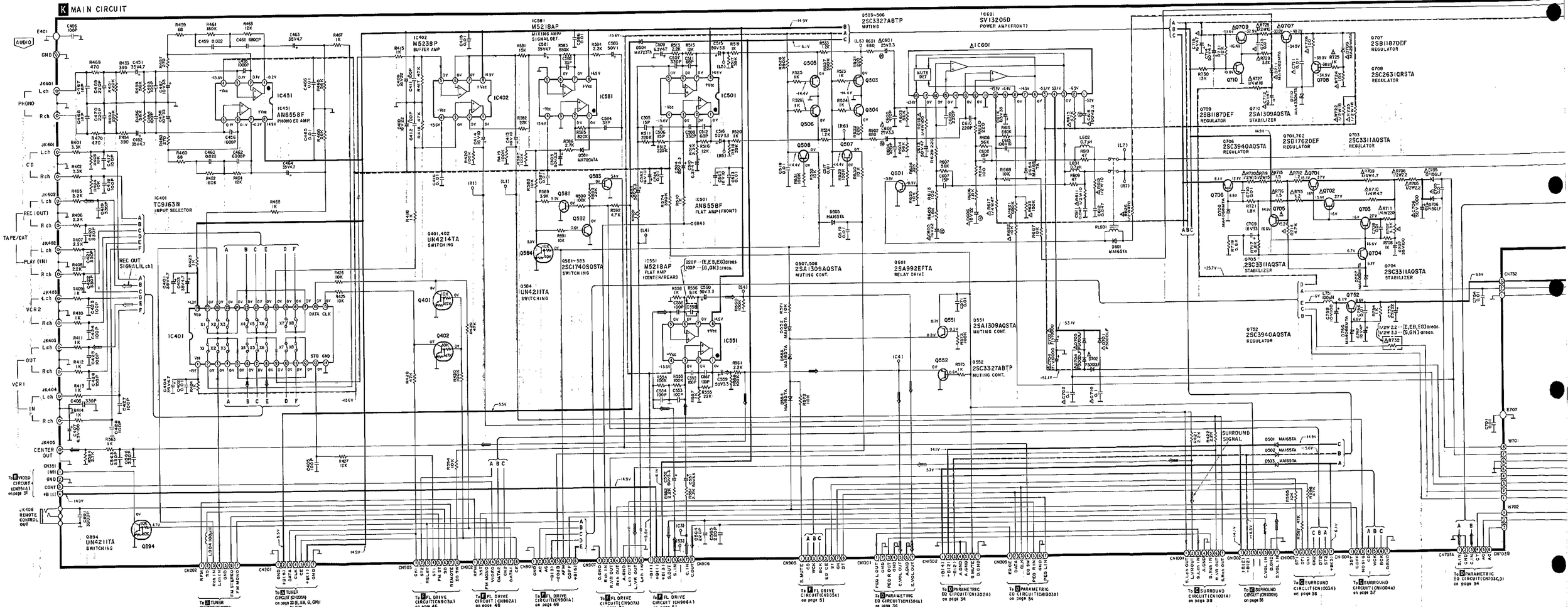
15 16 17 18 19 20 21 22 23 24 24 25 26 27 28 29 30 31 32

C SURROUND CIRCUIT

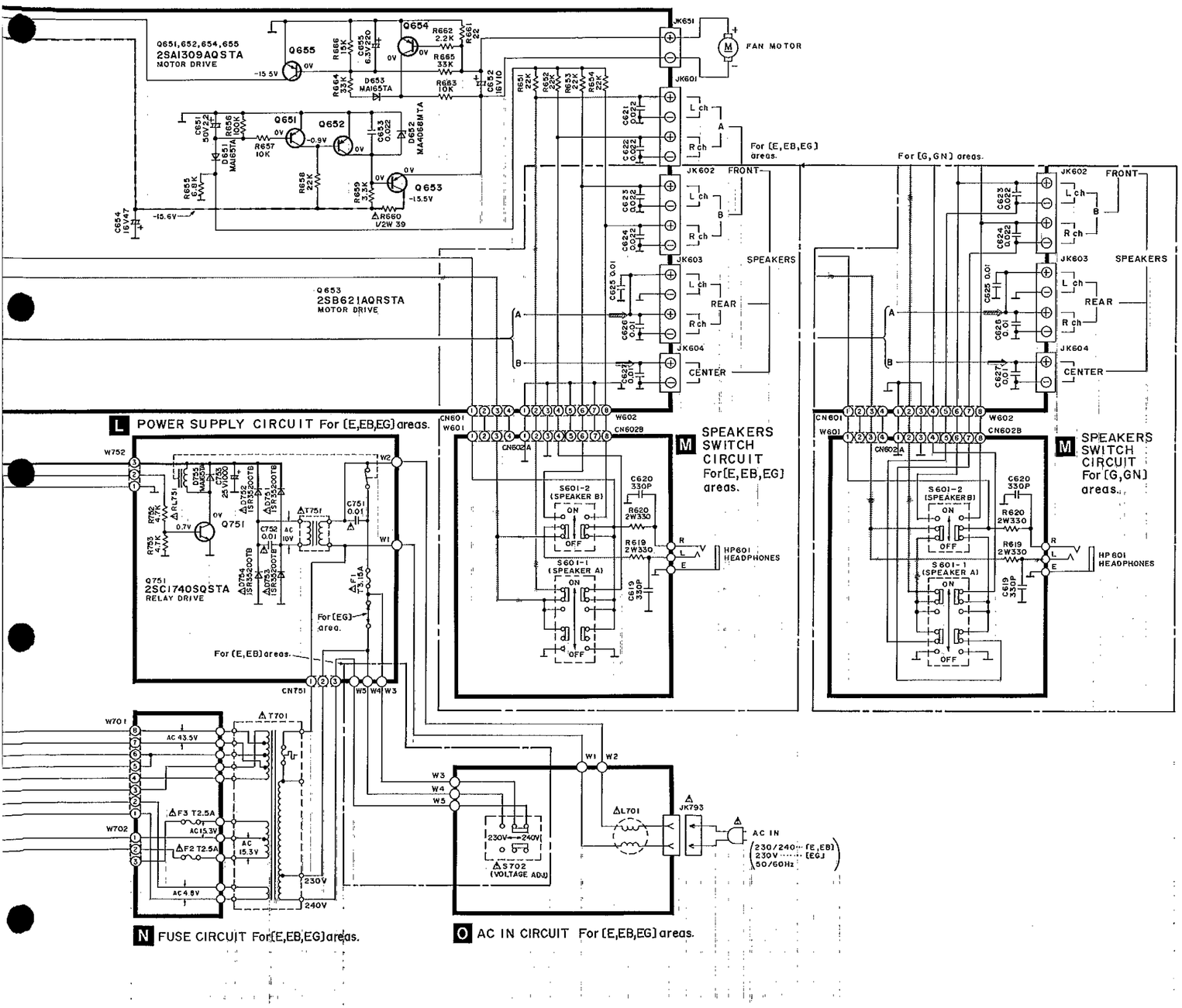


SA-GX530 SA-GX530

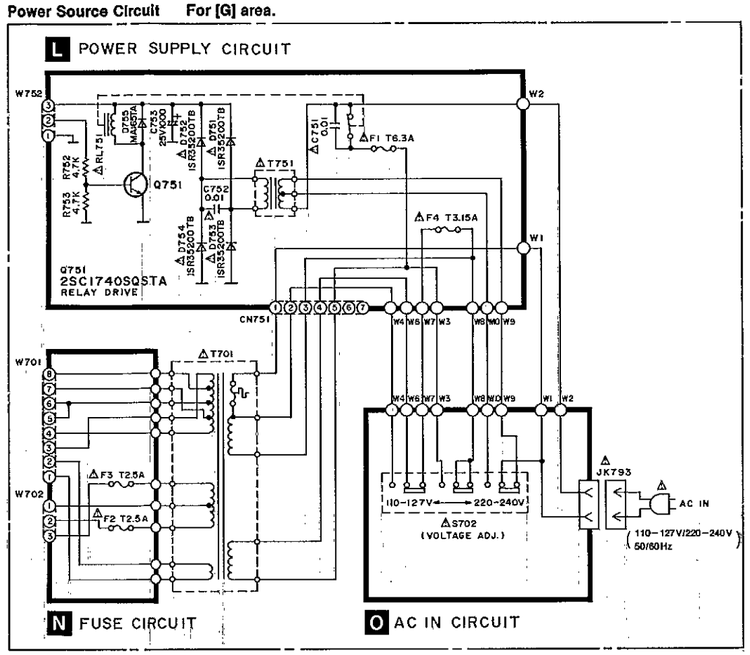
K MAIN CIRCUIT



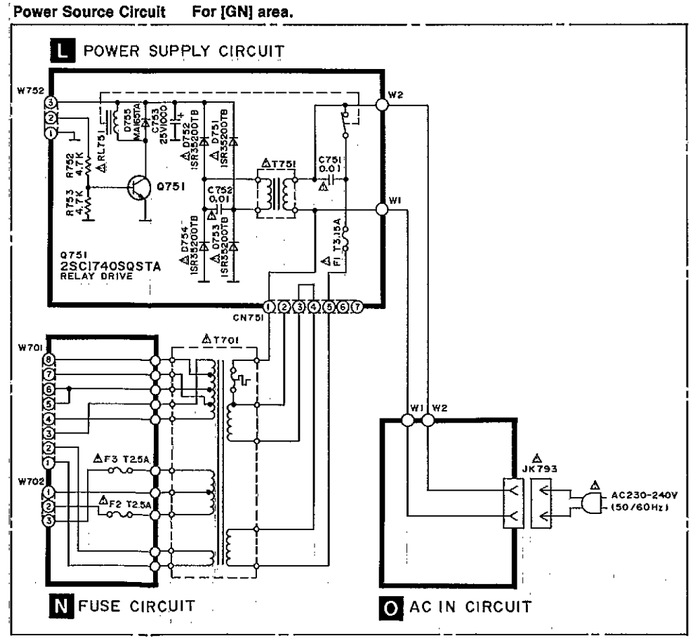
20 21 22 23 24 25 26 27 28 29 30 31

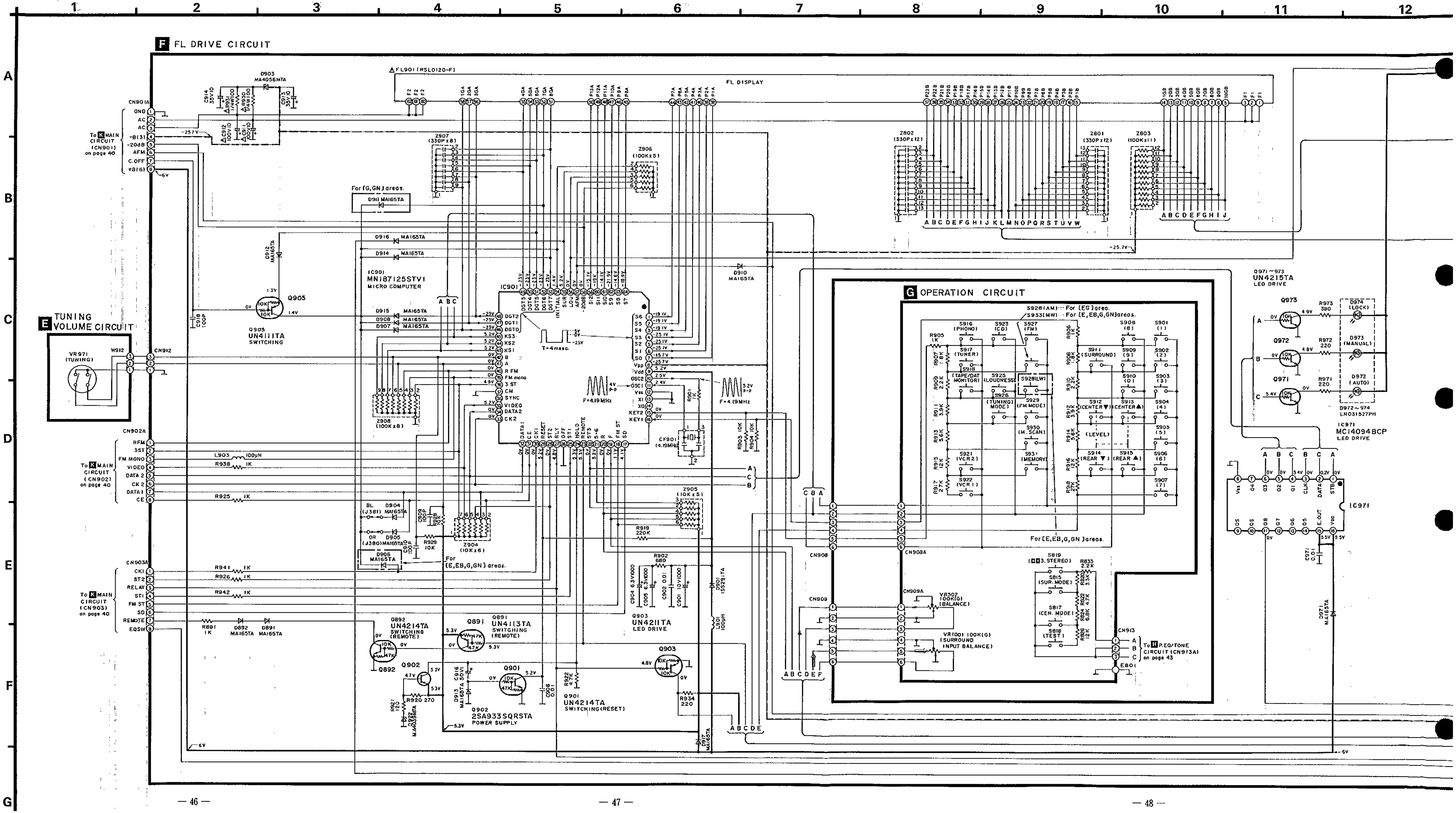


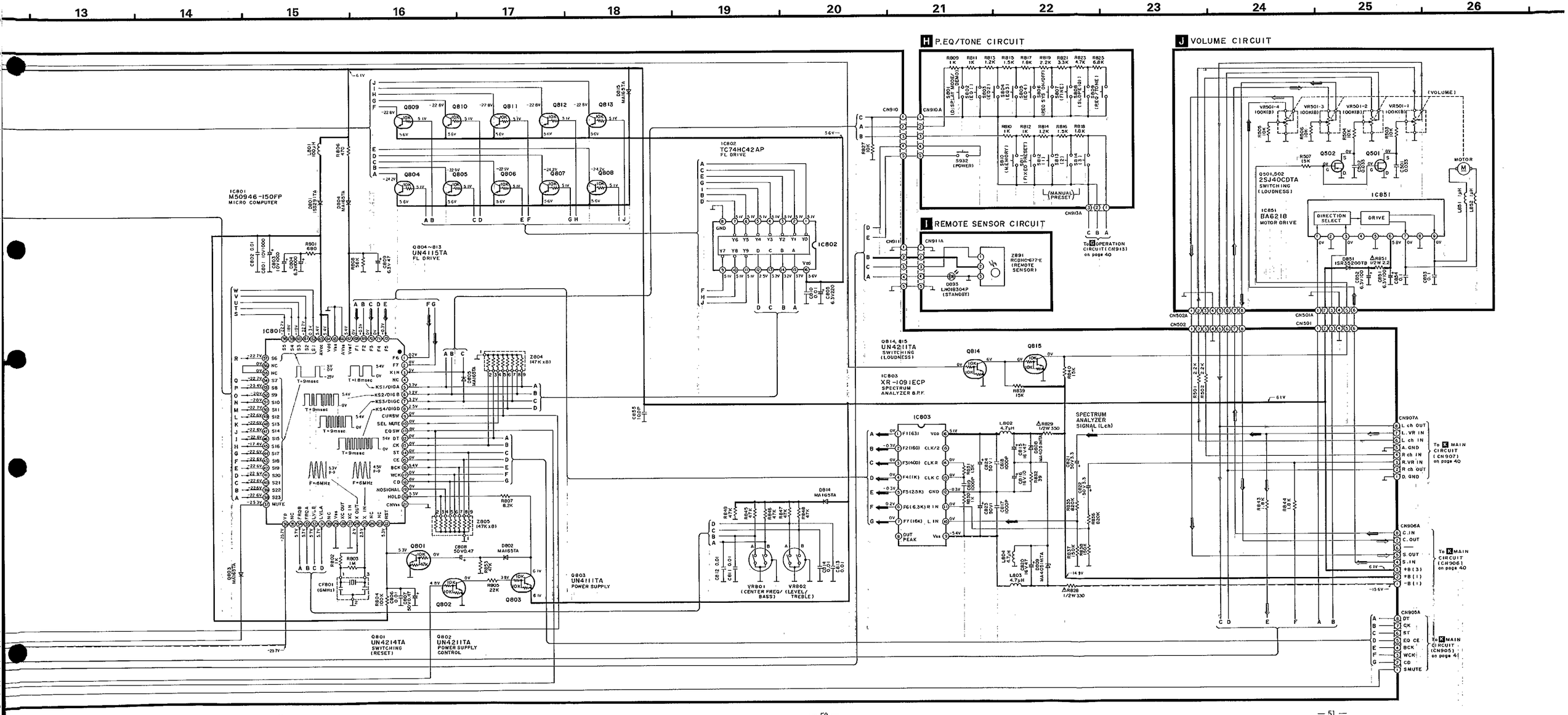
Power Source Circuit For [G] area.



Power Source Circuit For [GN] area.




F FL DRIVE CIRCUIT
G OPERATION CIRCUIT
E TUNING VOLUME CIRCUIT
IC901 MN187125STV1 MICRO COMPUTER
FL DISPLAY
Q971~973 UN4215TA LED DRIVE
IC971 MC14094BCP LED DRIVE
Q905 UN4111TA SWITCHING
Q892 UN4214TA SWITCHING (REMOTE)
Q891 UN4113TA SWITCHING (REMOTE)
Q902 2SA933SQRSTA POWER SUPPLY
Q901 UN4214TA SWITCHING (RESET)
Q903 UN4211TA LED DRIVE


13
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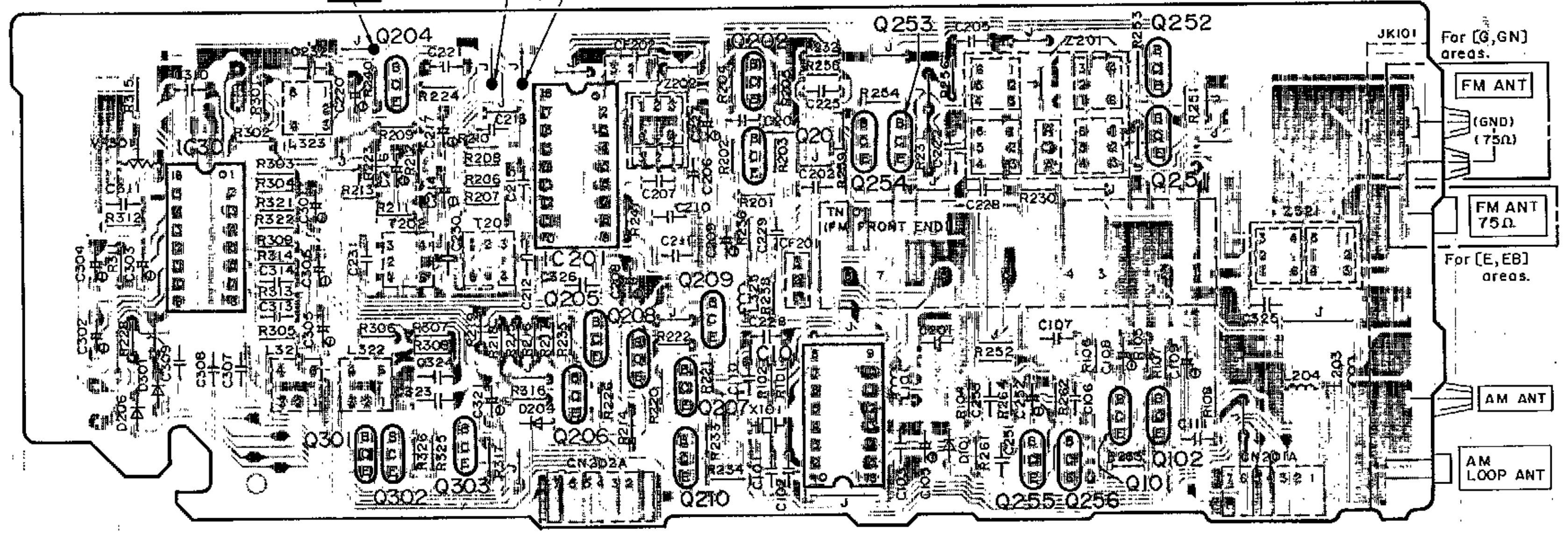
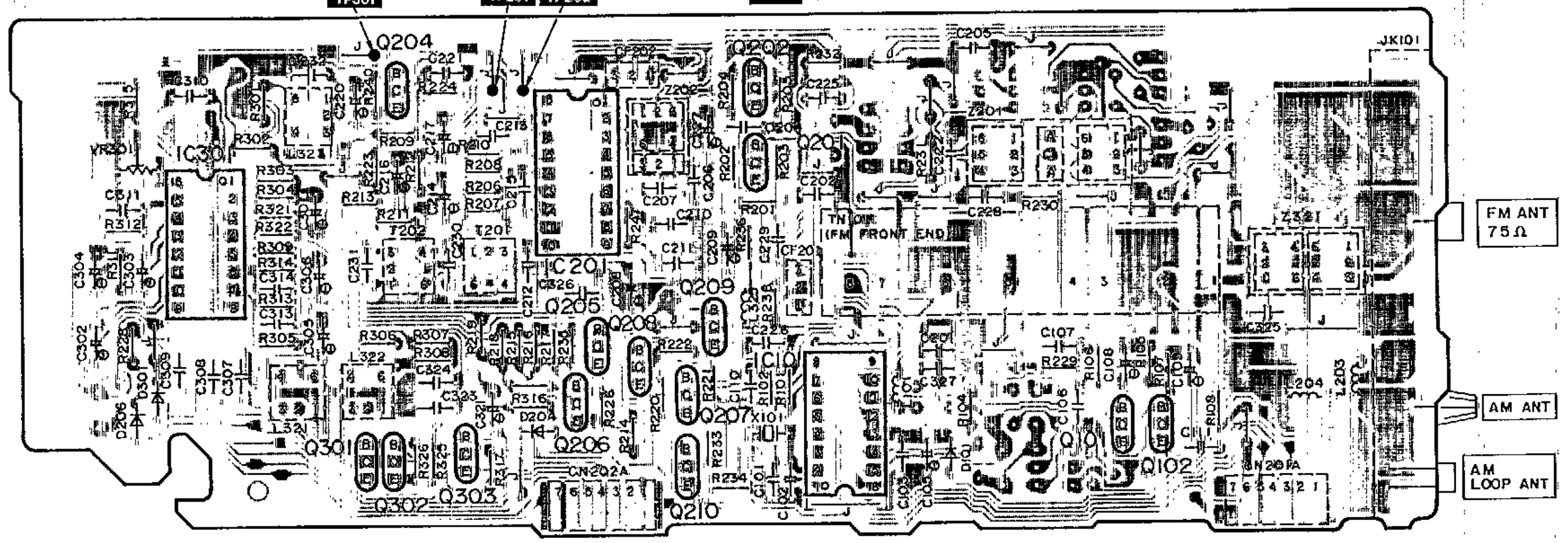
H P.EQ/TONE CIRCUIT
J VOLUME CIRCUIT
I REMOTE SENSOR CIRCUIT
IC801 M50946-150FP MICRO COMPUTER
IC802 TC74HC42AP FL DRIVE
IC803 XR-1091ECP SPECTRUM ANALYZER B.P.F.
IC851 BA6218 MOTOR DRIVE
Q804~813 UN4115TA FL DRIVE
Q801 UN4214TA SWITCHING (RESET)
Q802 UN4211TA POWER SUPPLY CONTROL
Q803 UN4111TA POWER SUPPLY
Q814, 815 UN4211TA SWITCHING (LOUDNESS)
Q501,502 2SJ40CDTA SWITCHING (LOUDNESS)
SPECTRUM ANALYZER SIGNAL (Lch)
VR801 (CENTER FREQ/BASS)
VR802 (LEVEL/TREBLE)
To K OPERATION CIRCUIT (CN913) on page 40
To K MAIN CIRCUIT (CN907) on page 40
To K MAIN CIRCUIT (CN906) on page 40
To K MAIN CIRCUIT (CN905) on page 40

■ PRINTED CIRCUIT BOARDS

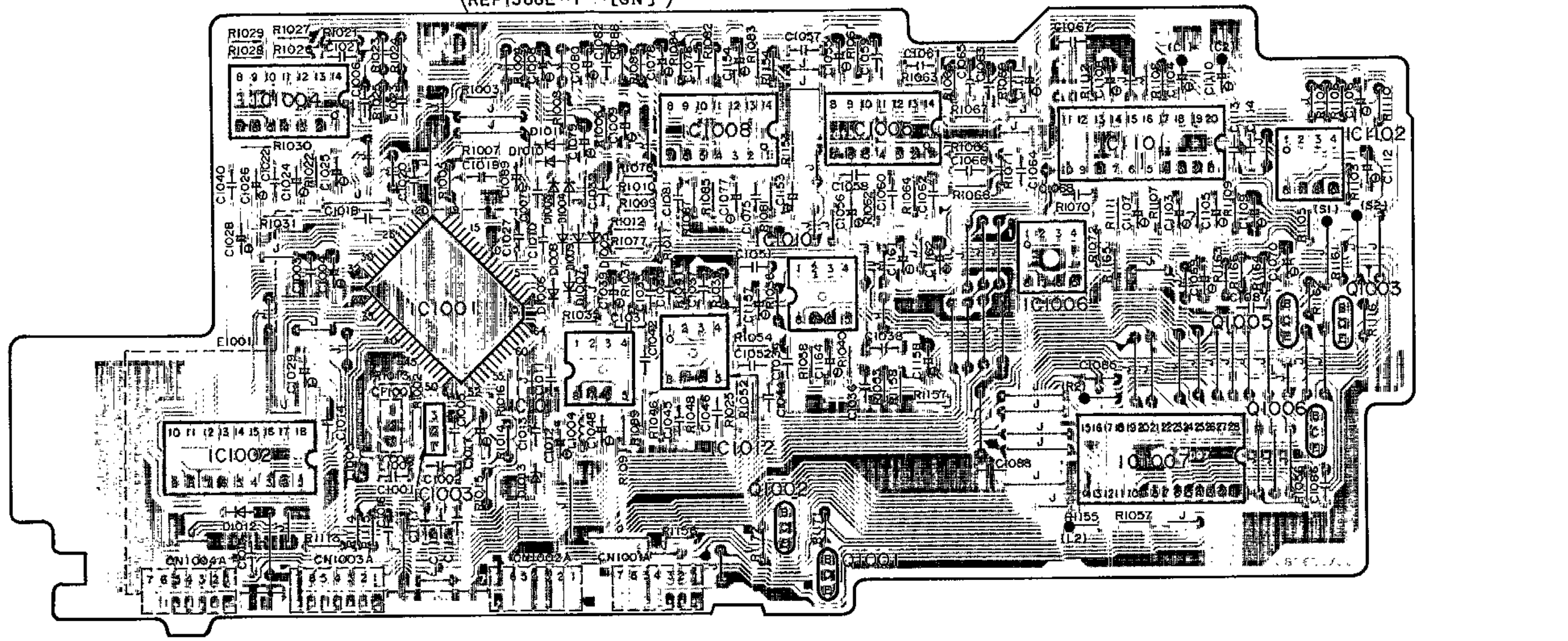
A TUNER P.C.B. For [E,EB,G,GN] areas. (REP1365C-S··· [E,EB] REP1365D-S··· [G,GN])



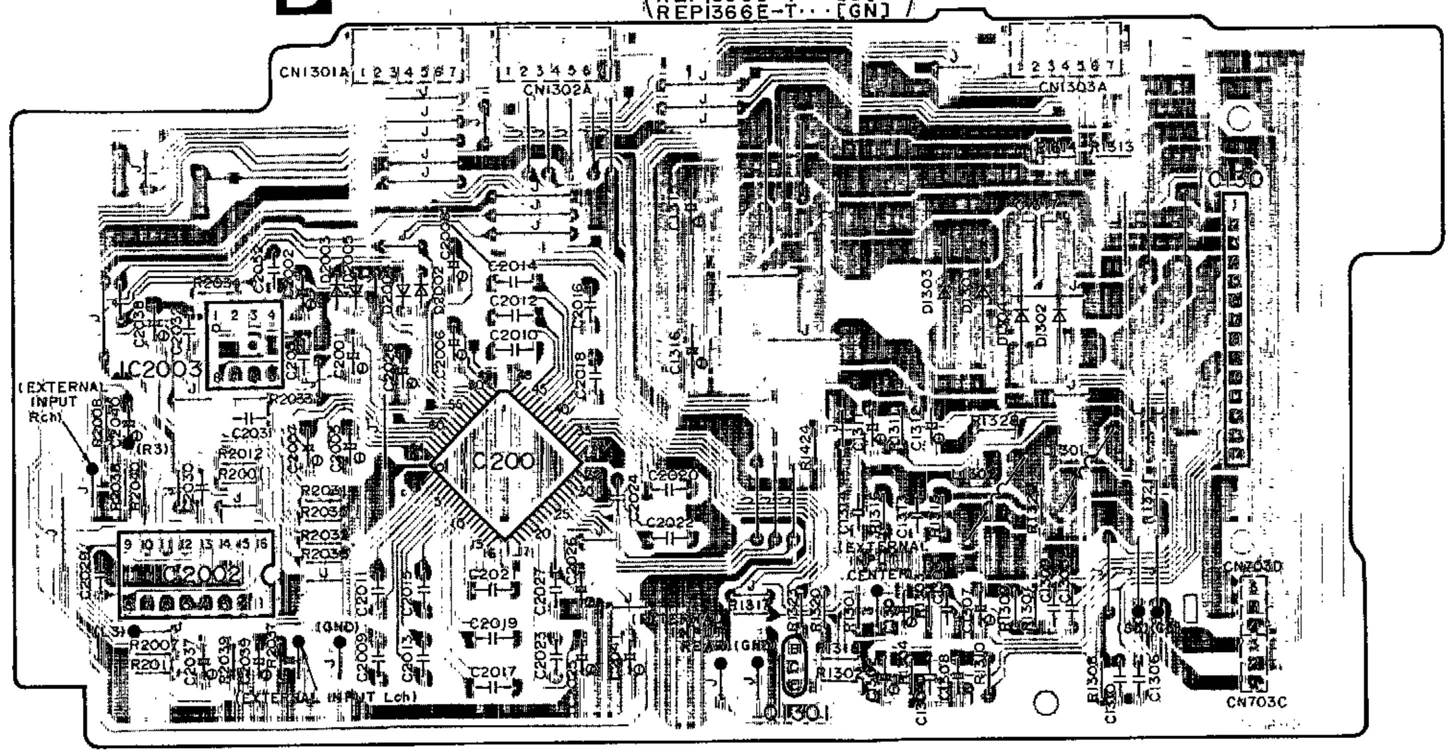
A TUNER P.C.B. For [EG] area. (REP1365B-S)



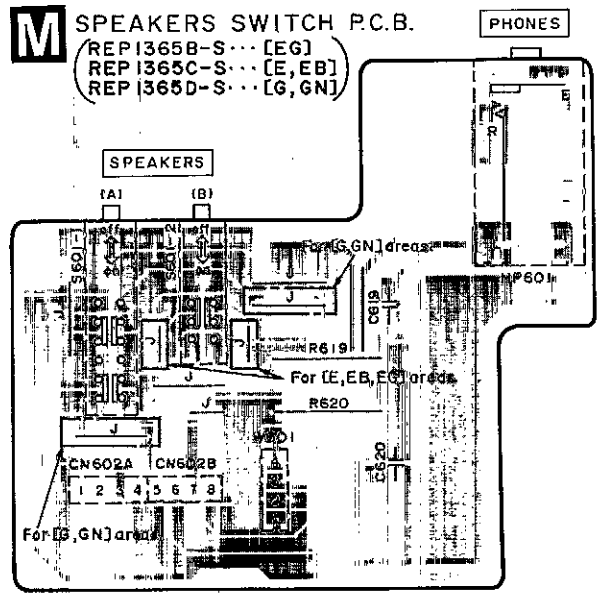
C SURROUND P.C.B. (REP1366B-T··· [EG] REP1366C-T··· [E,EB] REP1366D-T··· [G] REP1366E-T··· [GN])



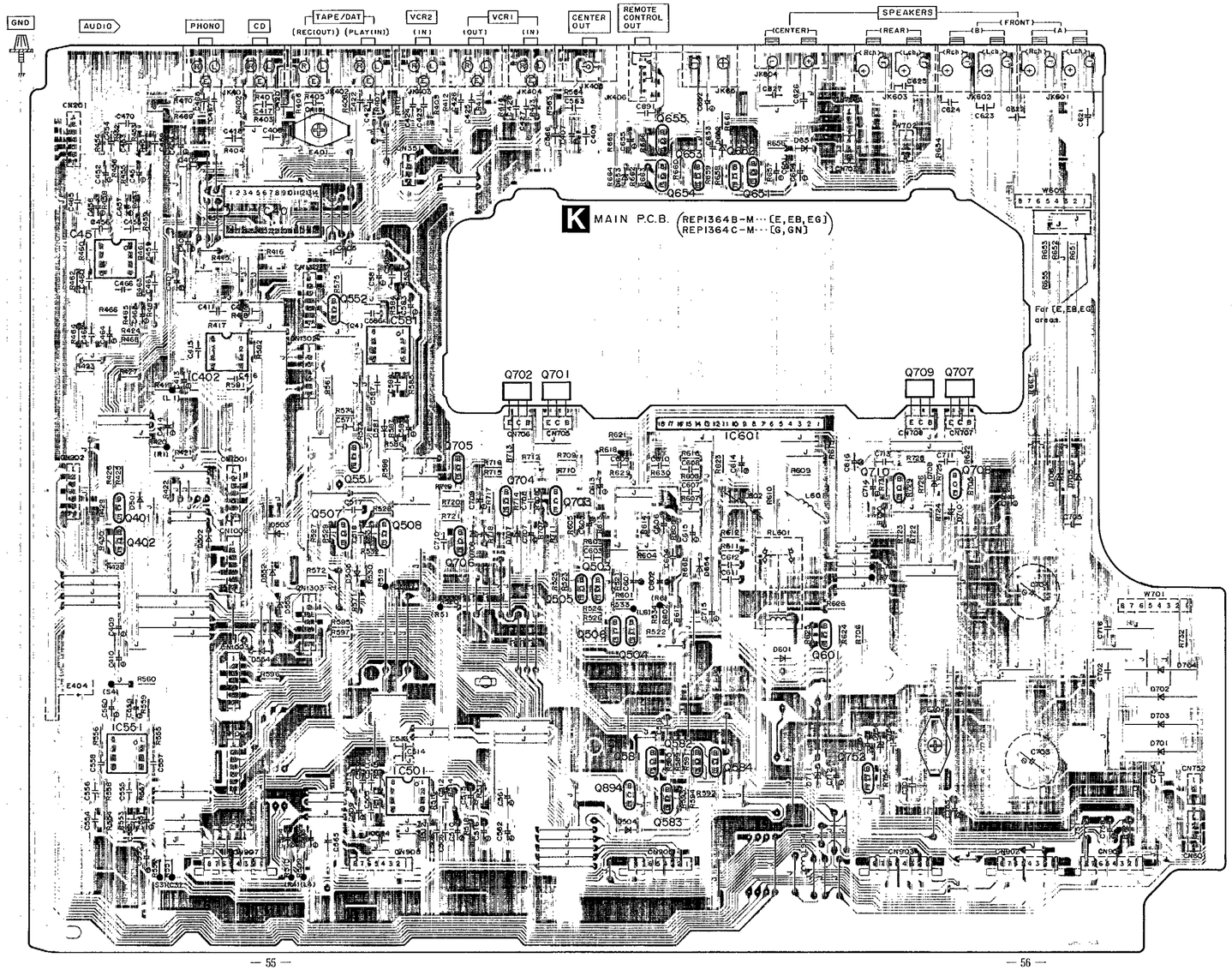
D PARAMETRIC EQ P.C.B. (REP1366B-T··· [EG] REP1366C-T··· [E,EB] REP1366D-T··· [G] REP1366E-T··· [GN])

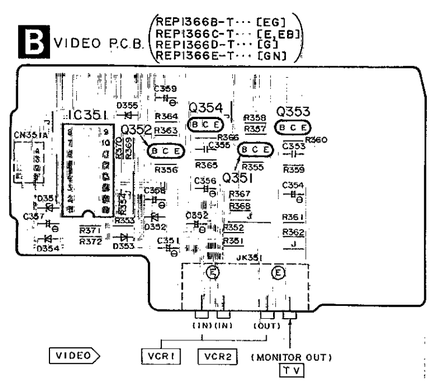


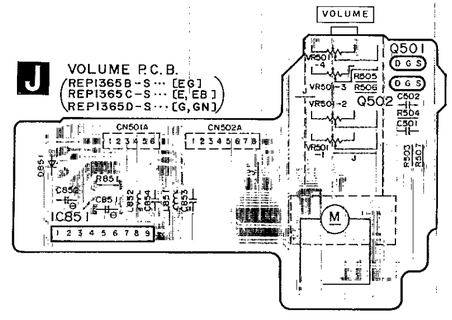
M SPEAKERS SWITCH P.C.B. (REP1365B-S··· [EG] REP1365C-S··· [E,EB] REP1365D-S··· [G,GN])

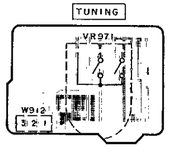


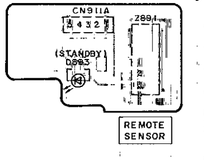
15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

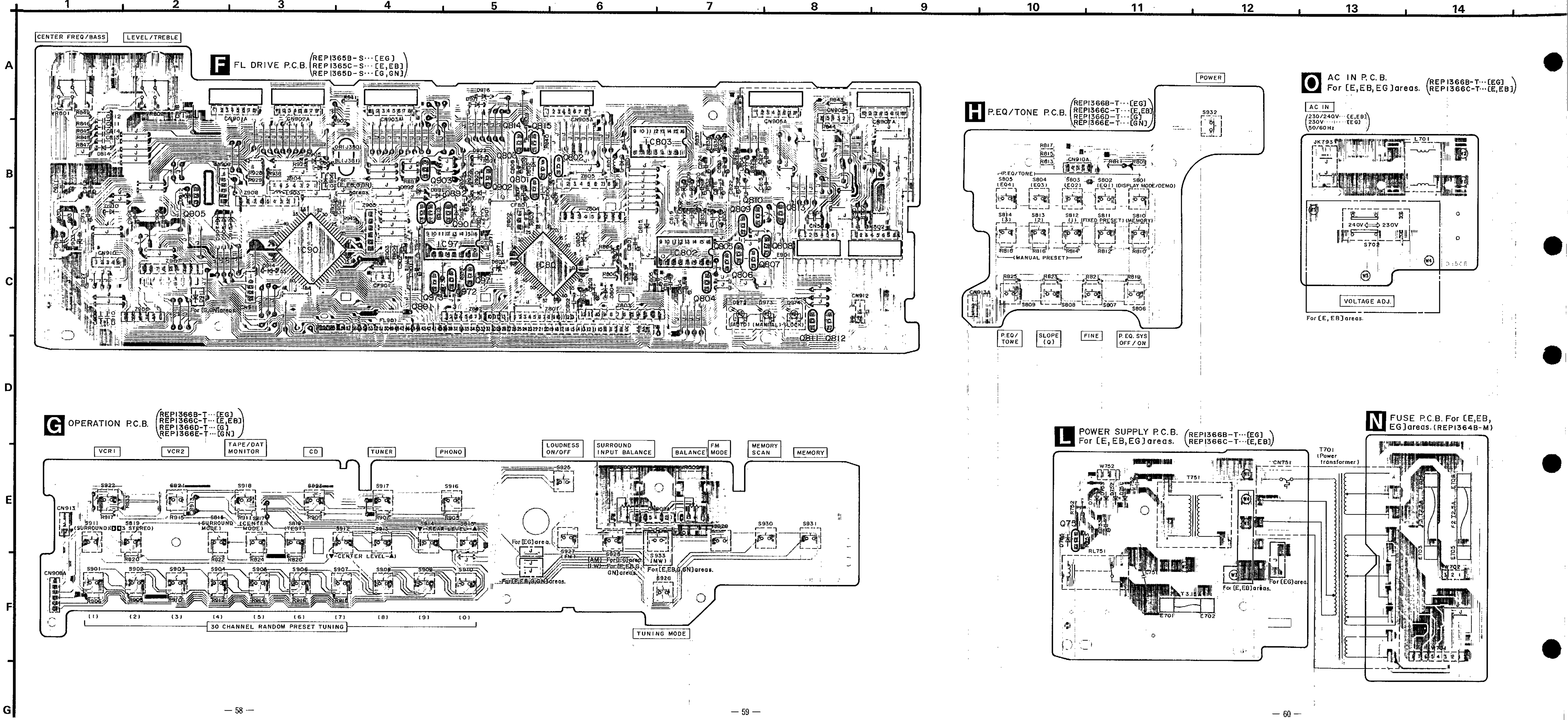






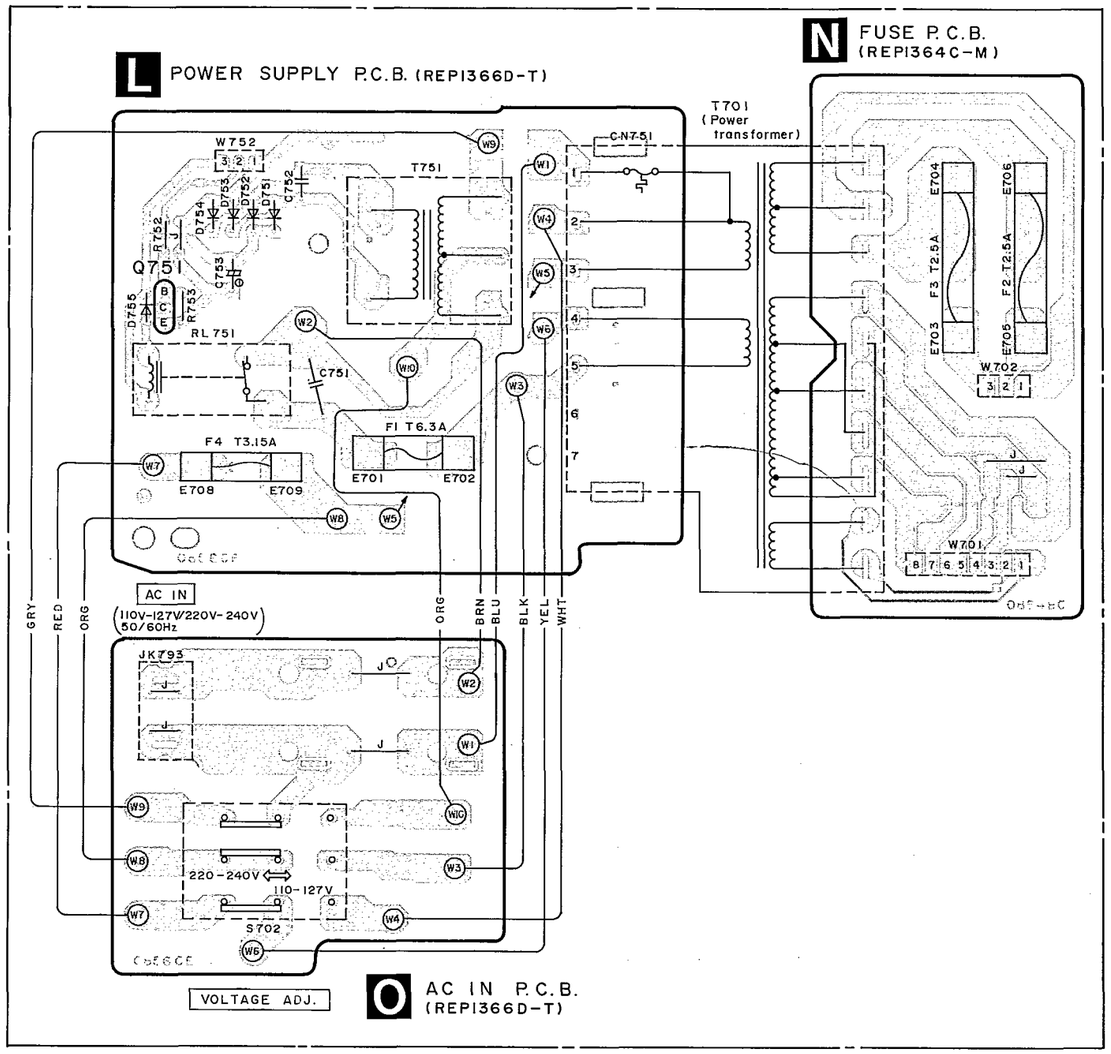




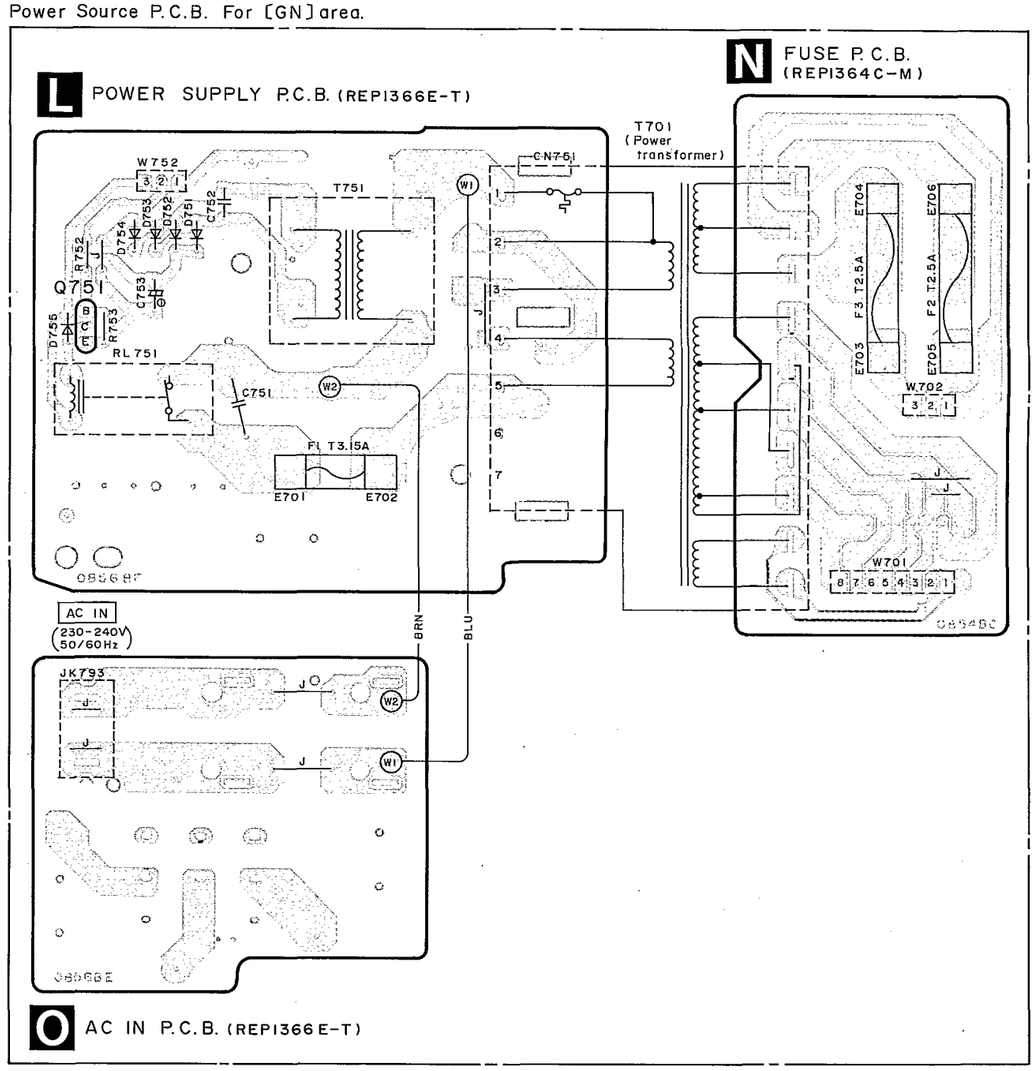

CENTER FREQ/BASS
LEVEL/TREBLE
F FL DRIVE P.C.B. (REP1365B-S···[EG] REP1365C-S···[E,EB] REP1365D-S···[G,GN])
H P.EQ/TONE P.C.B. (REP1366B-T···[EG] REP1366C-T···[E,EB] REP1366D-T···[G] REP1366E-T···[GN])
POWER
O AC IN P.C.B. For [E,EB,EG]areas. (REP1366B-T···[EG] REP1366C-T···[E,EB])
AC IN
230/240V···[E,EB]
230V···[EG]
50/60Hz
240V ⇐⇒ 230V
VOLTAGE ADJ.
For [E,EB]areas.
(MANUAL PRESET)
P.EQ/TONE
SLOPE (Q)
FINE
P.EQ. SYS OFF/ON
G OPERATION P.C.B. (REP1366B-T···[EG] REP1366C-T···[E,EB] REP1366D-T···[G] REP1366E-T···[GN])
VCR1
VCR2
TAPE/DAT MONITOR
CD
TUNER
PHONO
LOUDNESS ON/OFF
SURROUND INPUT BALANCE
BALANCE
FM MODE
MEMORY SCAN
MEMORY
(SURROUND)
(3 STEREO)
(SURROUND MODE)
(CENTER MODE)
(TEST)
(▼-REAR LEVEL-▲)
(▼-CENTER LEVEL-▲)
For [EG]area.
For [E,EB,G,GN]areas.
(1) (2) (3) (4) (5) (6) (7) (8) (9) (0)
30 CHANNEL RANDOM PRESET TUNING
TUNING MODE
L POWER SUPPLY P.C.B. For [E,EB,EG]areas. (REP1366B-T···[EG] REP1366C-T···[E,EB])
T701 (Power transformer)
For [E,EB]areas.
For [EG]area.
N FUSE P.C.B. For [E,EB, EG]areas. (REP1364B-M)

15 16 17 18 19 20 21 22 23 24

Power Source P.C.B. For [G] area.

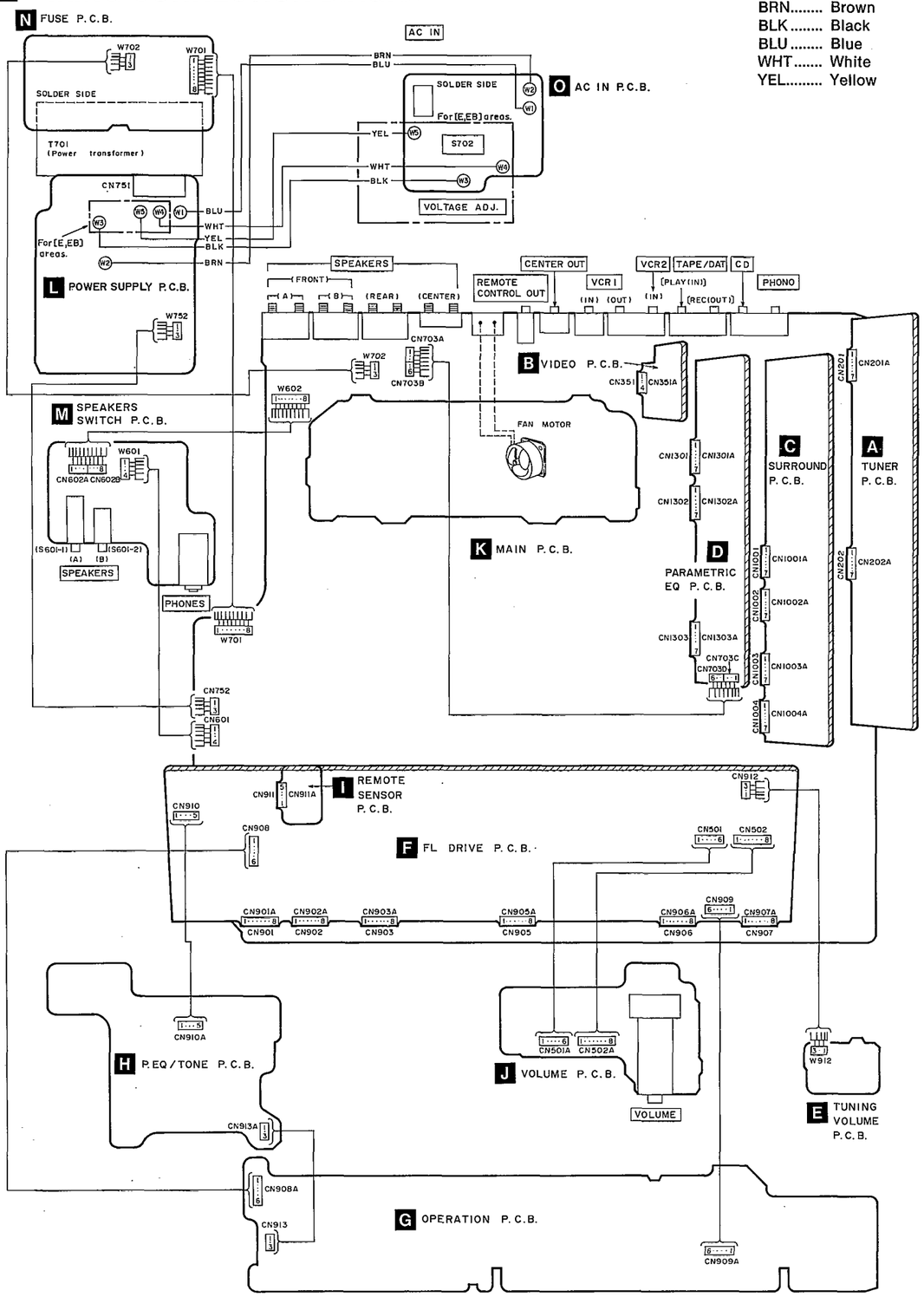


Power Source P.C.B. For [GN] area.



■ WIRING CONNECTION DIAGRAM

NOTES:
BRN..... Brown
BLK..... Black
BLU..... Blue
WHT..... White
YEL..... Yellow



■ TERMINAL FUNCTION OF IC'S

• **IC801 (M50946-150FP): Microcomputer**

Pin No.	Mark	I/O Division	Function
1	f6	I	Spectrum analyzer signal
2	f7		
3	KIN	I	Key return signal
4	NC	—	Not connected
5 ~ 8	KS1/DIGA ~ KS4/DIGD	O	Key scan signal and digit signal to FL display
9	CURSW	—	Not used, connected to resistor
10	SEL MUTE		
11	EQSW	O	Equalizer selector control terminal
12	DT	O	Serial data signal
13	CK	O	Serial clock signal
14	ST	—	Not used, connected to resistor
15	CE	O	Chip enable terminal
16	BCK	—	Not used, connected to resistor
17	WCK		
18	CD		
19	NO SIGNAL	I	Mixing signal level detect terminal
20	HOLD	I	Power failure detect terminal
21	CNVss	—	GND terminal
22	RST	I	Reset detect terminal
23	NC	—	Not connected
24	NC		
25	Xin	I	Crystal oscillator terminal (6MHz)
26	Xout	O	

Pin No.	Mark	I/O Division	Function
27	Xcin	—	Not used, connected to GND
28	Xcout	—	Not used, open
29	Vss	—	GND terminal
30	NC	—	Not connected
31	LVLA	I	Frequency level or high-frequency sound detect terminal
32	LVLB		
33	FRQA	I	Center frequency or low-frequency sound detect terminal
34	FRQB		
35	NC	—	Not connected
36	Vp	I	Power supply terminal to FL display
37	MUTE	I	Muting detect terminal
38 ~ 54	S7 ~ S23	O	Segment signal to FL display
55	NC	—	Not connected
56	NC		
57 ~ 62	S1 ~ S6	O	Segment signal to FL display
63	AVcc	I	Power supply terminal
64	Vdd		
65	Vss	—	GND terminal
66	AVss		
67	Vref	I	Power supply terminal
68 ~ 72	f1 ~ f5	I	Spectrum analyzer signal

• IC901 (MN187125STV1): Microcomputer

Pin No.	Mark	I/O Division	Function
1 ∫ 7	S0 ∫ S6	O	Segment signal to FL display
8	Vpp	I	Power supply terminal to FL display
9	Vdd	I	Power supply terminal
10	OSC2	O	Crystal oscillator terminal (4.19MHz)
11	OSC1	I	
12	Vss	—	GND terminal
13	XI	—	Not used, connected to GND
14	XO	—	Not used, open
15	KEY2	I	Key return signal
16	KEY1		
17	SD	I	Received signal detect terminal
18	FM ST	I	Stereo signal detect terminal
19	F	O	Sense of rotation for volume motor control terminal
20	R		
21	5-6	—	Not used, connected to resistor
22	ST3	O	Level shift control terminal
23	REMOTE	I	Remote control terminal
24	HOLD	I	Service interruption detect terminal
25	ST1	O	Level shift control terminal
26	OFF	—	Not used, connected to GND
27	RLY	O	Relay control terminal
28	ST2	O	Level shift control terminal
29	RESET	I	Reset detect terminal
30	CK1	O	Serial clock signal

Pin No.	Mark	I/O Division	Function
31	CE	O	Chip enable terminal
32	DATA1	O	Serial data signal
33	CK2	O	Serial clock signal
34	DATA2	O	Serial data signal
35	VIDEO	O	Video selector control terminal
36	SYNC	—	Not used, open
37	CM	—	Not used, connected to GND
38	3ST	—	Not used, connected to resistor
39	FM mono	O	Forcible monaural signal
40	RFM	O	Muting control to tuner circuit
41	A	I	Rotary tuning control terminal
42	B		
43 ∫ 45	KS1 ∫ KS3	O	Key scan signal
46 ∫ 53	DGT0 ∫ DGT7	O	Digit signal to FL display
54	initial	I	Serial data detect terminal
55	DAC/sur	O	Muting control signal
56	lou	O	Loudness control signal
57	AFM	O	Muting control to amplifier circuit
58	−20dB	O	Muting control (−20dB) to amplifier circuit
59 ∫ 64	S7 ∫ S12	O	Segment signal to FL display

■ REPLACEMENT PARTS LIST

Notes: *Important safety notice:
Components identified by ⚠ 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.
*Remote Control Ass'y:
Supply period for three years from termination of production.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC101	LM7001	IC, PLL FREQ. SYNTHESIZER	
IC201	AN7273A	IC, FM/AM IF AMP&MIXER	
IC301	SVIUPC1161C3	IC, FM MPX	
IC351	TC4053BP	IC, VIDEO SELECTOR	
IC401	TC9163N	IC, INPUT SELECTOR	
IC402	M5238P-1	IC, BUFFER AMP	
IC451	AN6558F	IC, PHONO EQ AMP	
IC501	AN6558F	IC, FLAT AMP	
IC551	M5218AP	IC, FLAT AMP	
IC581	M5218AP	IC, MIXING AMP	
IC601	SVI3206D	IC, POWER AMP	⚠
IC801	M50946-150FP	IC, MICROCOMPUTER	
IC802	TC74HC42AP	IC, FL DRIVE	
IC803	XR-1091ECP	IC, SPECTRUM ANALYZER	
IC851	BA6218	IC, MOTOR DRIVE	
IC901	MN187125STV1	IC, MICROCOMPUTER	
IC971	MC14094BCP	IC, LED DRIVE	
IC1001	YM7306C	IC, DOLBY PRO-LOGIC DECODER	
IC1002	KM41C464P-10	IC, D. RAM	
IC1003	MN1381STA	IC, RESET	
IC1004	AN6554F	IC, L. P. FILTER AMP	
IC1005	AN6554F	IC, L. P. FILTER AMP	
IC1006	M5218AP	IC, BUFFER AMP	
IC1007	TC9162N	IC, MODE SELECTOR	
IC1008	AN6554F	IC, MIXING AMP	
IC1010	M5238P-1	IC, L. P. FILTER AMP	
IC1011	M5238P-1	IC, BUFFER AMP	
IC1012	M5218AP	IC, L. P. FILTER AMP	
IC1101	TC9212P	IC, ATTENUATOR	
IC1102	M5218AP	IC, BUFFER AMP	
IC1301	SVI3101D	IC, POWER AMP	⚠
IC2001	LV3100M	IC, PARAMETRIC EQUALIZER	
IC2002	TC9214P	IC, ANALOG SWITCH	
IC2003	M5218AP	IC, BUFFER AMP	
		TRANSISTOR(S)	
Q101, 102	2SC2785FE	TRANSISTOR	
Q201, 202	2SC2787L	TRANSISTOR	
Q204-207	2SC1740SQ	TRANSISTOR	
Q208, 209	2SA933SQR	TRANSISTOR	
Q210	2SC1740SQ	TRANSISTOR	
Q251	2SA933SQR	TRANSISTOR	(E, EB, G, GN)
Q252-254	2SC1740SQ	TRANSISTOR	(E, EB, G, GN)
Q255, 256	2SC2785FE	TRANSISTOR	(E, EB, G, GN)
Q301, 302	2SD1450QRSTA	TRANSISTOR	
Q303	2SA933SQR	TRANSISTOR	
Q351, 352	2SC3311A-Q	TRANSISTOR	
Q353, 354	2SA1015Y	TRANSISTOR	
Q401, 402	UN4214TA	TRANSISTOR	
Q501, 502	2SJ40CDTA	TRANSISTOR	
Q503-506	2SC3327-A	TRANSISTOR	
Q507, 508	2SA1309A-R	TRANSISTOR	
Q551	2SA1309A-R	TRANSISTOR	
Q552	2SC3327-A	TRANSISTOR	
Q581-583	2SC1740SQ	TRANSISTOR	
Q584	UN4211	TRANSISTOR	
Q601	2SA992EFTA	TRANSISTOR	
Q651, 652	2SA1309A-R	TRANSISTOR	
Q653	2SB621A-R	TRANSISTOR	
Q654, 655	2SA1309A-R	TRANSISTOR	
Q701, 702	2SD1762DEF	TRANSISTOR	⚠
Q703, 704	2SC3311A-Q	TRANSISTOR	
Q705	2SC3311A-Q	TRANSISTOR	⚠
Q706	2SC3940AQSTA	TRANSISTOR	
Q707	2SB1187DEF	TRANSISTOR	⚠
Q708	2SC2631QRSTA	TRANSISTOR	
Q709	2SB1187DEF	TRANSISTOR	⚠
Q710	2SA1309A-R	TRANSISTOR	
Q751	2SC1740SQ	TRANSISTOR	
Q752	2SC3940AQSTA	TRANSISTOR	
Q801	UN4214TA	TRANSISTOR	
Q802	UN4211	TRANSISTOR	
Q803	UN4111	TRANSISTOR	
Q804-813	UN4115	TRANSISTOR	
Q814, 815	UN4211	TRANSISTOR	
Q891	UN4113TA	TRANSISTOR	
Q892	UN4214TA	TRANSISTOR	
Q894	UN4211	TRANSISTOR	
Q901	UN4214TA	TRANSISTOR	
Q902	2SA933SQR	TRANSISTOR	
Q903	UN4211	TRANSISTOR	
Q905	UN4111	TRANSISTOR	
Q971-973	UN4215	TRANSISTOR	
Q1001, 1002	2SC3327-A	TRANSISTOR	
Q1003	2SA933SQR	TRANSISTOR	
Q1005	2SC3327-A	TRANSISTOR	
Q1006	DTC114ESTP	TRANSISTOR	
Q1301	2SC3327-A	TRANSISTOR	
		DIODE(S)	

Ref. No.	Part No.	Part Name & Description	Remarks
D101	MA165	DIODE	
D204	MA165	DIODE	
D206	MA165	DIODE	
D301	MA165	DIODE	
D351	MA4036MTA	DIODE	
D352	MA4056MTA	DIODE	
D353-355	MA165	DIODE	
D501-503	MA165	DIODE	
D504	MA723TA	DIODE	
D505	MA165	DIODE	
D552-554	MA165	DIODE	
D581	MA700	DIODE	
D601	MA165	DIODE	
D651	MA165	DIODE	
D652	MA4068M	DIODE	
D653, 654	MA165	DIODE	
D701-704	P300DLF	DIODE	⚠
D705, 706	GP15GLF	DIODE	⚠
D707	MA4062MTA	DIODE	
D708	MA4068M	DIODE	
D709	MA29WA	DIODE	⚠
D710	MA4330MTA	DIODE	
D711	MA4082MTA	DIODE	⚠
D751-754	1SR35200TB	RECTIFIER	⚠
D755	MA165	DIODE	
D756	MA4068M	DIODE	
D801	1SS291TA	DIODE	
D802-805	MA165	DIODE	
D808, 809	MA4051MTA	DIODE	
D814, 815	MA165	DIODE	
D851	1SR35200TB	DIODE	
D891, 892	MA165	DIODE	
D893	LN018304P	L. E. D.	
D901	1SS291TA	DIODE	
D903	MA4056MTA	DIODE	
D904, 905	MA165	DIODE	
D906	MA165	DIODE	(E, EB, G, GN)
D907, 908	MA165	DIODE	
D910	MA165	DIODE	
D911	MA165	DIODE	(G, GN)
D912-917	MA165	DIODE	
D922	MA4039MTA	DIODE	
D971	MA165	DIODE	
D972-974	LN031527PH	L. E. D. BLOCK	
D1003-1012	MA165	DIODE	
D1013	MA4051MTA	DIODE	
D1301-1304	GP15GLF	DIODE	⚠
D2002-2005	MA165	DIODE	
		VARIABLE RESISTOR(S)	

Ref. No.	Part No.	Part Name & Description	Remarks
VR301	EVNDXAA00B53	V. R, FM MPX VCO ADJ.	
VR501	EUWMJTF25B15	V. R, MAIN VOLUME	
VR502	EVJ02SF01G15	V. R, BALANCE	
VR801, 802	EVQWQ202224B	V. R, FREQ/BASS. LEVEL/TREBLE	
VR971	EVQWPCF2024B	V. R, ROTARY TUNING	
VR1001	EVJ02SF01G15	V. R, SURROUND BALANCE	
		COMPONENT COMBINATION(S)	
Z201	RLA6Z002-T	COIL	(E, EB, G, GN)
Z201	RLA2Z001-T	COIL	(EG)
Z202	SLI7Z101-T	COMPONENT COMBINATION	
Z321	SLA4Z13-Z	COMPONENT COMBINATION	
Z801, 802	EXFP12331MF	COMPONENT COMBINATION	
Z803	EXBF12E104J	COMPONENT COMBINATION	
Z804, 805	EXBF9E473J	COMPONENT COMBINATION	
Z891	RCDHC-677	REMOTE SENSOR	
Z904	EXBF7E103J	COMPONENT COMBINATION	
Z905	EXBF6E103J	COMPONENT COMBINATION	
Z906	EXBF6E104J	COMPONENT COMBINATION	
Z907	EXFP8331MW	COMPONENT COMBINATION	
Z908	EXBF9E104J	COMPONENT COMBINATION	
		COIL(S)	
L101	RLQZPR47KT-Y	COIL	
L203	ELEPKR22MA	COIL	(E, EB, G, GN)
L203	ELEPK1R0MA	COIL	(EG)
L204	ELEPKR22MA	COIL	(E, EB, G, GN)
L204	ELEPK1R0MA	COIL	(EG)
L321, 322	RLM2B003-K	COIL	
L323	SLM1B10M-1M	COIL	
L325	RLQZP1R2KT-Y	COIL	
L601, 602	SLQY07G-40	COIL	
L701	SLQZ650MH49	COIL	(E, EB, EG)⚠
L751	ELEPK101KA	COIL	
L801	RLQZP101KT-Y	COIL	
L802-804	RLQZP4R7KT-Y	COIL	
L851, 852	RLQZP1R0KT-Y	COIL	
L901	ELEPK101KA	COIL	
L903, 904	RLQZP101KT-Y	COIL	
L1002	RLQZP101KT-Y	COIL	
L1004, 1005	RLQZP101KT-Y	COIL	
L1301, 1302	SLQY07G-40	COIL	
		TRANSFORMER(S)	
T201	RLI4B012-Z	TRANSFORMER, FM-IF	
T202	RLI4B013-Z	TRANSFORMER, FM-IF	
T701	RTP1Q5E007-V	POWER TRANSFORMER(MAIN)	(E, EB, EG)⚠
T701	RTP1Q5E008-V	POWER TRANSFORMER(MAIN)	(G, GN)⚠
T751	RTP1I5E003-V	POWER TRANSFORMER(SUB)	(E, EB, EG)⚠

Ref. No.	Part No.	Part Name & Description	Remarks
T751	RTP1I15E005-V	POWER TRANSFORMER(SUB)	(G, GN)⚠
		FILTER(S) & OSCILLATOR(S)	
CF201, 202	RLFETNGM02LA	RED(10.700MHz)	
CF201, 202	RLFETNGM02LB	BLUE(10.675MHz)	
CF201, 202	RLFETNGM02LC	ORANGE(10.725MHz)	
CF801	EFOGC6004T4	OSCILLATOR(6MHz)	
CF901	EFOGC4194T4	OSCILLATOR(4.19MHz)	
CF1001	EFOGC8464T4	OSCILLATOR(8.46MHz)	
X101	SVQ49U722-S	OSCILLATOR(7.2MHz)	
		FL DISPLAY(S)	
FL901	RSL0120-F	FL DISPLAY	⚠
		FRONT END PACK ASS'Y	
TN101	SNVFE337G01	FM FRONT END	
		FUSE(S)	
F1	XBA2C31TB0	FUSE, 250V 3.15A	(E, EB, EG, GN)⚠
F1	XBA2C63TB0	FUSE, 250V 6.3A	(G)⚠
F2, 3	XBA2C25TB0	FUSE, 250V 2.5A	⚠
F4	XBA2C31TB0	FUSE, 25V 3.15A	(G)⚠
		SWITCH(ES)	
S601	RSP2008-J	SW, SPEAKERS	
S702	ESD26200A	SW, VOLTAGE ADJUSTMENT	(E, EB, EG)⚠
S702	ESD26840A	SW, VOLTAGE ADJUSTMENT	(G)⚠
S801	EVQ21405R	SW, DISPLAY MODE	
S802	EVQ21405R	SW, EQ1	
S803	EVQ21405R	SW, EQ2	
S804	EVQ21405R	SW, EQ3	
S805	EVQ21405R	SW, EQ4	
S806	EVQ21405R	SW, P.EQ.SYS ON/OFF	
S807	EVQ21405R	SW, FINE	
S808	EVQ21405R	SW, SLOPE(Q)	
S809	EVQ21405R	SW, P.EQ./TONE	
S810	EVQ21405R	SW, MEMORY	
S811	EVQ21405R	SW, FIXED PRESET	
S812	EVQ21405R	SW, MANUAL PRESET 1	
S813	EVQ21405R	SW, MANUAL PRESET 2	
S814	EVQ21405R	SW, MANUAL PRESET 3	
S815	EVQ21405R	SW, SURROUND MODE	
S817	EVQ21405R	SW, CENTER MODE	
S818	EVQ21405R	SW, TEST	
S819	EVQ21405R	SW, 3 STEREO	
S901	EVQ21405R	SW, PRESET TUNING 1	
S902	EVQ21405R	SW, PRESET TUNING 2	

Ref. No.	Part No.	Part Name & Description	Remarks
S903	EVQ21405R	SW, PRESET TUNING 3	
S904	EVQ21405R	SW, PRESET TUNING 4	
S905	EVQ21405R	SW, PRESET TUNING 5	
S906	EVQ21405R	SW, PRESET TUNING 6	
S907	EVQ21405R	SW, PRESET TUNING 7	
S908	EVQ21405R	SW, PRESET TUNING 8	
S909	EVQ21405R	SW, PRESET TUNING 9	
S910	EVQ21405R	SW, PRESET TUNING 0	
S911	EVQ21405R	SW, SURROUND	
S912	EVQ21405R	SW, CENTER LIVEL(DOWN)	
S913	EVQ21405R	SW, CENTER LIVEL(UP)	
S914	EVQ21405R	SW, REAR LEVEL(DOWN)	
S915	EVQ21405R	SW, REAR LEVEL(UP)	
S916	EVQ21405R	SW, INPUT SELECTOR(PHONO)	
S917	EVQ21405R	SW, INPUT SELECTOR(TUNER)	
S918	EVQ21405R	SW, INPUT SELECTOR(MONITOR)	
S921	EVQ21405R	SW, INPUT SELECTOR(VCR2)	
S922	EVQ21405R	SW, INPUT SELECTOR(VCR1)	
S923	EVQ21405R	SW, INPUT SELECTOR(CD)	
S925	EVQ21405R	SW, LOUDNESS	
S926	EVQ21405R	SW, TUNING MODE	
S927	EVQ21405R	SW, BAND SELECTOR(FM)	
S928	EVQ21405R	SW, BAND SELECTOR(AM)	
S929	EVQ21405R	SW, FM MODE	
S930	EVQ21405R	SW, MEMORY SCAN	
S931	EVQ21405R	SW, MEMORY	
S932	EVQ21405R	SW, POWER	
S933	EVQ21405R	SW, LW	(E, EB, G, GN)
		RELAY(S)	
RL601	RSY0013-0	RELAY	
RL751	RSY0012-0	RELAY	⚠
		JACK(S)	
JK101	RJH4202	ANTENNA CONNECTION TERMINAL	(E, EB, EG)
JK101	RJH4405-1	ANTENNA CONNECTION TERMINAL	(G, GN)
JK351	SJF3069-3N	TERMINAL, MONITOR/VIDEO	
JK401	SJF3069N	TERMINAL, PHONO/CD	
JK402	SJF3069N	TERMINAL, TAPE/DAT	
JK403	SJF3069N	TERMINAL, VCR2/VCR1	
JK404	SJF3068N	TERMINAL, VCR1	
JK405	SJFD7	CENTER OUT	
JK406	RJJ33TR01	REMOTE CONTROL OUT	
JK601	RJR0054	FRONT SPEAKERS A	
JK602	RJR0054	FRONT SPEAKERS B	
JK603	RJR0054	REAR SPEAKERS	
JK604	SJF5201-1	CENTER SPEAKERS	
JK651	RJS1A7402-1	FAN MOTOR JACK	
JK793	SJS9231-1B	AC INLET	(E, EB, EG, G)⚠
JK793	SJS9234B	AC INLET	(GN)⚠

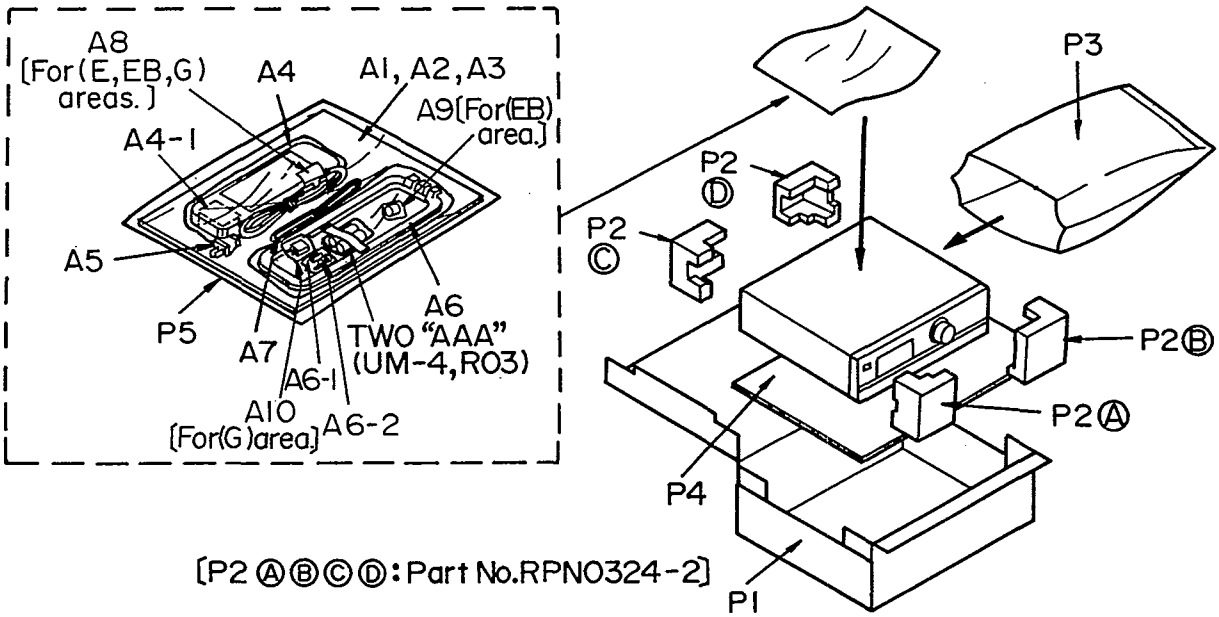
Ref. No.	Part No.	Part Name & Description	Remarks
HP601	RJJ63TS01	HEADPHONES	
		CONNECTOR(S) & SOCKET(S)	
CN201, 202	RJT057W007-1	CONNECTOR(7P)	
CN351	RJT057W004-1	CONNECTOR(4P)	
CN351A	RJU057W004	SOCKET(4P)	
CN501	RJT003K006-1	CONNECTOR(6P)	
CN502	RJT003K008-1	CONNECTOR(8P)	
CN601	RJS1A1704	SOCKET(4P)	
CN705-708	RJS1A1703	CONNECTOR(3P)	
CN751	SJS305-1	SOKCET(3P)	(E, EB, EG)
CN751	SJS5711-1	SOKCET(5P)	(G, GN)
CN752	RJS1A1703	CONNECTOR(3P)	
CN901A	RJT003K008-1	CONNECTOR(8P)	
CN901	RJU003K008M1	SOCKET(8P)	
CN902A	RJT003K008-1	CONNECTOR(8P)	
CN902	RJU003K008M1	SOCKET(8P)	
CN903A	RJT003K008-1	CONNECTOR(8P)	
CN903	RJU003K008M1	SOCKET(8P)	
CN905A	RJT003K008-1	CONNECTOR(8P)	
CN905	RJU003K008M1	SOCKET(8P)	
CN906A	RJT003K008-1	CONNECTOR(8P)	
CN906	RJU003K008M1	SOCKET(8P)	
CN907A	RJT003K008-1	CONNECTOR(8P)	
CN907	RJU003K008M1	SOCKET(8P)	
CN908, 909	SJT30648BB1	CONNECTOR(6P)	
CN910	SJT30548BB1	CONNECTOR(5P)	
CN911	SJT30549BB1	CONNECTOR(5P)	
CN912	RJS1A1703	CONNECTOR(3P)	
CN913	SJT30345JQ	CONNECTOR(3P)	
CN1001	RJT057W007-1	CONNECTOR(7P)	
CN1001A	RJU057W007	SOCKET(7P)	
CN1002	RJT057W007-1	CONNECTOR(7P)	
CN1002A	RJU057W007	SOCKET(7P)	
CN1003	RJT057W007-1	CONNECTOR(7P)	
CN1003A	RJU057W007	SOCKET(7P)	
CN1004	RJT057W007-1	CONNECTOR(7P)	
CN1004A	RJU057W007	SOCKET(7P)	
CN1301	RJT057W007-1	CONNECTOR(7P)	
CN1301A	RJU057W007	SOCKET(7P)	
CN1302	RJT057W007-1	CONNECTOR(7P)	
CN1302A	RJU057W007	SOCKET(7P)	
CN1303	RJT057W007-1	CONNECTOR(7P)	
CN1303A	RJU057W007	SOCKET(7P)	
CN201A	RJU057W007	SOCKET(7P)	
CN202A	RJU057W007	SOCKET(7P)	
CN501A	RJU003K006M1	SOCKET(6P)	
CN502A	RJU003K008M1	SOCKET(8P)	
CN602A	RJS1A1704	SOCKET(4P)	
CN703A	RJS1A1703	CONNECTOR(3P)	
CN908A	SJS50681BB	SOCKET(6P)	

Ref. No.	Part No.	Part Name & Description	Remarks
CN909A	SJS50681BB	SOCKET(6P)	
CN910A	SJS50581BB	SOCKET(5P)	
CN911A	SJS50581BB	SOCKET(5P)	
CN913A	SJS50382JQH	SOCKET(3P)	
CN602B	RJS1A1704	SOCKET(4P)	
CN703B	RJS1A1703	CONNECTOR(3P)	
CN703C	RJS1A1703	CONNECTOR(3P)	
CN703D	RJS1A1703	CONNECTOR(3P)	
		SHIELD PART(S)	
E101	RSC0283	SHIELD COVER	
E401	SNE1004-1	GND PLATE	
E404, 405	SME103-6	P.C.B. HOLDER	
E701-706	EYF52BC	FUSE HOLDER	
E707	SNE1004-1	GND PLATE	
E708	EYF52BC	FUSE HOLDER	(G)
E709	EYF52BC	FUSE HOLDER	(G)
E801	RSC0218	SHIELD PLATE	
E901	RSC0219-1	SHIELD PLATE	
E1001	RSC0219-1	SHIELD PLATE	
		PACKING MATERIAL	
P1	RPG1188	PACKING CASE	(E, EB, G, GN)
P1	RPG1189	PACKING CASE	(EG)
P2	RPN0324-2	PAD	
P3	XZB60X65A01Z	PROTECTION BAG(UNIT)	
P4	RPQ0164	PAD	
P5	XZB24X34C04	PROTECTION BAG(ACCESSORIES)	
		ACCESSORIES	
A1	RFKSAGX530EK	INST. MANUAL ASS'Y	(E)
A1	RQT1603-B	INSTRUCTION MANUAL	(EB)
A1	RQT1600-D	INSTRUCTION MANUAL	(EG)
A1	RQT1643-G	INSTRUCTION MANUAL	(G, GN)
A2	RQA0013	WARRANTY CARD	(E, EB, EG)
A2	RQX7433ZA	WARRANTY CARD	(GN)
A3	RQCB0169	SERVICENTER LIST	
A4	RAK-SA503E	REMOTE CONTROL TRANSMITTER	
A4-1	RKK0020-K	BATTERY COVER	FOR R/C TRANSMITTER
A5	RJA0019-1K	AC POWER SUPPLY CORD	(E, EG) ⚠
A5	SJA193	AC POWER SUPPLY CORD	(EB) ⚠
A5	RJA0004	AC POWER SUPPLY CORD	(G) ⚠
A5	SJA173	AC POWER SUPPLY CORD	(GN) ⚠
A6	SPB1163T	AM LOOP ANTENNA	
A6-1	SMA233-1M	AM ANTENNA HOLDER	
A6-2	XTN3+10AFZ	SCREW	
A7	RSA0007	FM INDOOR ANTENNA	(E, EB, EG)
A7	RSA0006	FM INDOOR ANTENNA	(G, GN)
A8	RQLA0134	VOLTAGE CAUTION LABEL	(E, EB, G)
A9	SJP9009	ATTACHMENT PLUG	(EB) ⚠
A10	SJP9215	AC PLUG ADAPTOR	(G) ⚠

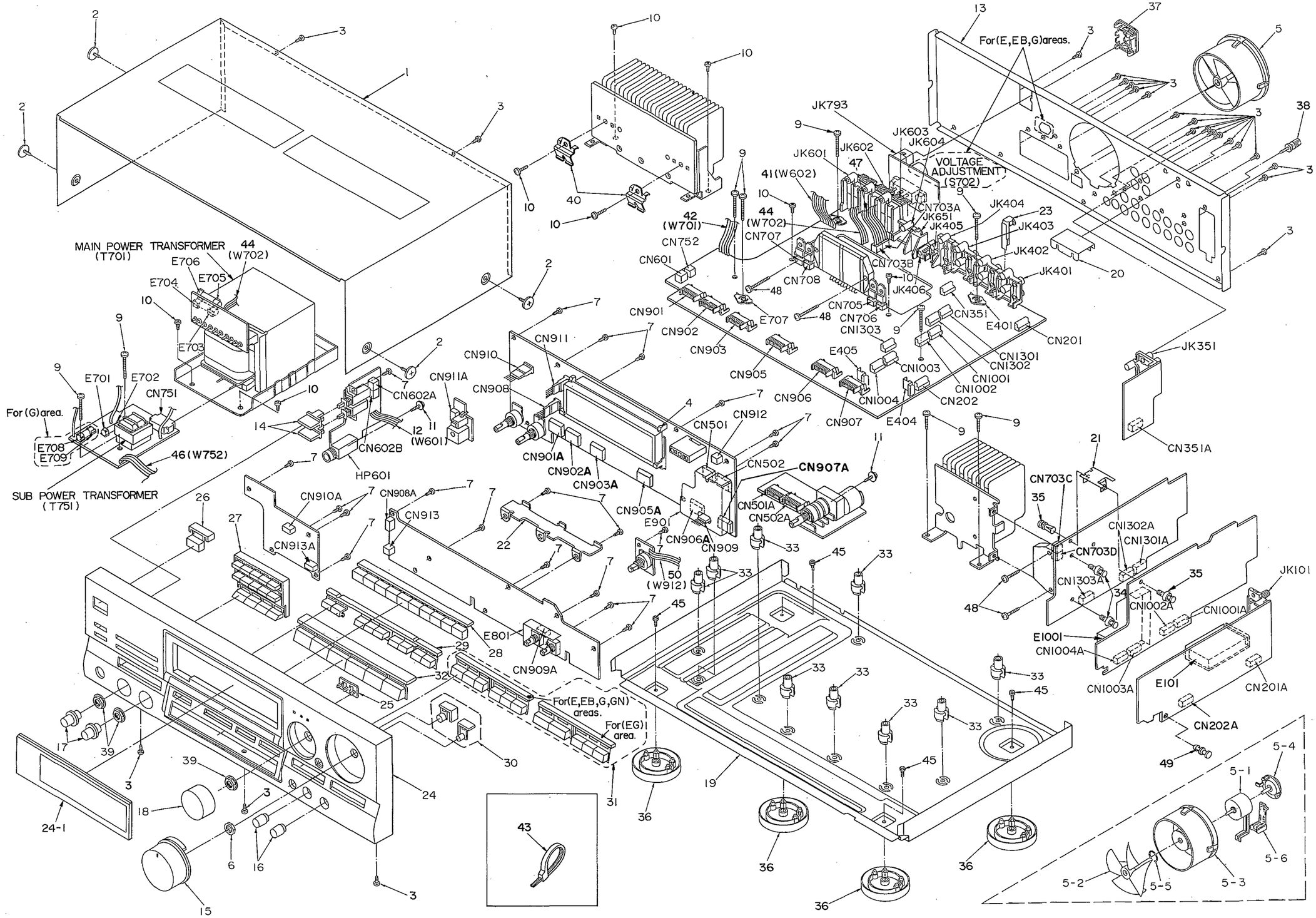
Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RKM0016A-K	CABINET	
2	SNE2129-3	SCREW	
3	XTBS3+8JFZ1	SCREW	
4	RMN0079-1	FL HOLDER	
5	REM0020-1	COOLING FAN UNIT	
5-1	MDN-4RB4MRC	FAN MOTOR	
5-2	SHE232-1	FAN	
5-3	RMQ0209-K	FAN CASE	
5-4	RMQ0208-K	FAN CAP	
5-5	SUS271	SPRING	
5-6	RMQ0212-K	FAN TERMINAL CAP	
6	XNS7S	NUT	
7	XTBS26+8J	SCREW	
8	XWE3E15	WASHER	
9	XTB3+20JFZ	SCREW	
10	XTB3+8JFZ	SCREW	
11	XTWS3+10Q	SCREW	
12	RWJ1804120QK	FLAT CABLE(4P/W601)	
13	RGR0126H-B1	REAR PANEL	(E)
13	RGR0126H-A1	REAR PANEL	(EB)
13	RGR0126G-A	REAR PANEL	(EG)
13	RGR0126I-A1	REAR PANEL	(G)
13	RGR0126G-B1	REAR PANEL	(GN)
14	RGU0101	BUTTON, SPEAKERS	
15	RGW0084	KNOB, VOLUME	(E, EB, EG)
15	RGW0145-K	KNOB, VOLUME	(G, GN)
16	RGW0073	KNOB, BALANCE	
17	RGW0083	KNOB, BASS/TREBLE, FREQ.	
18	RGW0134	KNOB, TUNING	(E, EB, EG)
18	RGW0085-1	KNOB, TUNING	(G, GN)
19	RMK0035-4	CHASSIS	
20	RMA0295	PCB HOLDER A	

Ref. No.	Part No.	Part Name & Description	Remarks
21	RMA0310	SUPPORT ANGLE	
22	RMN0139	PCB HOLDER B	
23	RSC0105	PHONO SHIELD PLATE	
24	RFKGAGX530EK	FRONT PANEL ASS'Y	(E, EB, G, GN)
24	RFKGAGX530EG	FRONT PANEL ASS'Y	(EG)
24-1	RKW0215B-Q	TRANSPARENT PANEL	
25	RGL0129	PANEL LIGHT	
26	RGU0453-K	BUTTON, POWER	
27	RGU0592-1	BUTTON, P. EQ/MANUAL PRESET	
28	RGU0593	BUTTON, PRESET TUNING	
29	RGU0594B	BUTTON, SURROUND/LEVEL	
30	RGU0597	BUTTON, TUNING MODE/LOUDNESS	
31	RGU0612B-K1	BUTTON, BAND/MODE/MEMORY	(E, EB, G, GN)
31	RGU0612C-K	BUTTON, BAND/MODE/MEMORY	(EG)
32	RGU0613A-K	BUTTON, INPUT SELECTORS	
33	SHE187-2	PCB SUPPORT	
34	SHR411	LATCH	
35	SHR415	LATCH	
36	RKA0009-1	FOOT	
37	SJS9231A	AC INLET COVER	(E, EB, EG, G)
37	SJS9234A	AC INLET COVER	(GN)
38	SNE2123	GND TERMINAL	
39	SNE4021-1	NUT	
40	RMC0158	TRANSISTOR HOLDER	
41	RWJ1808320QK	FLAT CABLE(8P/W602)	
42	RWJ1808200KK	FLAT CABLE(8P/W701)	
43	SHR301	FASTNER	
44	RWJ1803220KK	FLAT CABLE(3P/W702)	
45	XTB3+6J	SCREW	
46	RWJ1803120QK	FLAT CABLE(3P/W752)	
47	REZ0505	FLAT CABLE(6P/W703)	
48	XTW3+15T	SCREW	
49	SHR8006	SPACER	
50	RWJ1803080QK	FLAT CABLE(3P/W912)	

■ PACKAGING



■ CABINET PARTS LOCATION



■ RESISTORS AND CAPACITORS

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
		RESISTORS
R101, 102	ERDS2TJ103	1/4W 10K
R104	ERDS2TJ102	1/4W 1K
R105	ERDS2TJ561	1/4W 560
R106	ERDS2TJ562	1/4W 5.6K
R107	ERDS2TJ103	1/4W 10K
R108	ERDS2TJ151	1/4W 150
R201	ERDS2TJ103	1/4W 10K
R202	ERDS2TJ824	1/4W 820K
R203	ERDS2TJ331	1/4W 330
R204	ERDS2TJ824	1/4W 820K
R205	ERDS2TJ391	1/4W 390
R206	ERDS2TJ561	1/4W 560
R207	ERDS2TJ822	1/4W 8.2K
R208	ERDS2TJ102	1/4W 1K
R209	ERDS2TJ471	1/4W 470
R210	ERDS2TJ332	1/4W 3.3K
R211	ERDS2TJ222	1/4W 2.2K
R212	ERDS2TJ153	1/4W 15K
R213	ERDS2TJ104	1/4W 100K
R214	ERDS2TJ824	1/4W 820K
R215	ERDS2TJ153	1/4W 15K
R216	ERDS2TJ563	1/4W 56K
R217	ERDS2TJ223	1/4W 22K
R218	ERDS2TJ563	1/4W 56K
R219	ERDS2TJ223	1/4W 22K
R220	ERDS2TJ103	1/4W 10K
R221	ERDS2TJ104	1/4W 100K
R222	ERDS2TJ473	1/4W 47K
R223	ERDS2TJ154	1/4W 150K
R224	ERDS2TJ223	1/4W 22K
R226	ERDS2TJ103	1/4W 10K
R228	ERDS2TJ123	1/4W 12K
R229	ERDS2TJ102	1/4W 1K EG
R230	ERDS2TJ104	1/4W 100K
R231	ERDS2TJ102	1/4W 1K E, EB, G, GN
R231	ERDS2TJ471	1/4W 470 EG
R232	ERDS2TJ122	1/4W 1.2K
R233	ERDS2TJ684	1/4W 680K
R234	ERDS2TJ103	1/4W 10K
R235	ERDS2TJ471	1/4W 470
R236	ERDS2TJ183T	1/4W 18K
R238	ERDS2TJ271	1/4W 270
R240	ERDS2TJ152	1/4W 1.5K
R247	ERDS2TJ103	1/4W 10K
R251	ERDS2TJ103	1/4W 10K E, EB, G, GN
R252	ERDS2TJ822	1/4W 8.2K E, EB, G, GN
R253	ERDS2TJ182	1/4W 1.8K E, EB, G, GN
R254	ERDS2TJ223	1/4W 22K E, EB, G, GN
R256	ERDS2TJ102	1/4W 1K E, EB, G, GN
R258	ERDS2TJ122	1/4W 1.2K E, EB, G, GN
R259	ERDS2TJ223	1/4W 22K E, EB, G, GN
R261	ERDS2TJ102	1/4W 1K E, EB, G, GN
R262	ERDS2TJ332	1/4W 3.3K E, EB, G, GN
R263	ERDS2TJ153	1/4W 15K E, EB, G, GN
R264	ERDS2TJ102	1/4W 1K E, EB, G, GN
R301	ERDS2TJ393	1/4W 39K E, EB, G, GN
R301	ERDS2TJ333	1/4W 33K EG
R302	ERDS2TJ151	1/4W 150
R303, 304	ERDS2TJ223	1/4W 22K
R305, 306	ERDS2TJ272T	1/4W 2.7K
R307, 308	ERDS2TJ562	1/4W 5.6K
R309	ERDS2TJ154	1/4W 150K E, EB, G, GN
R309	ERDS2TJ124	1/4W 120K EG
R311	ERDS2TJ102	1/4W 1K
R312	ERDS2TJ153	1/4W 15K
R313, 314	ERDS2TJ473	1/4W 47K
R315	ERDS2TJ103	1/4W 10K
R316	ERDS2TJ222	1/4W 2.2K
R317	ERDS2TJ473	1/4W 47K
R321	ERDS2TJ333	1/4W 33K E, EB, G, GN
R321	ERDS2TJ153	1/4W 15K EG
R322	ERDS2TJ333	1/4W 33K E, EB, G, GN
R322	ERDS2TJ153	1/4W 15K EG
R325, 326	ERDS2TJ102	1/4W 1K
R351, 352	ERDS2TJ820	1/4W 82
R353, 354	ERDS2TJ104	1/4W 100K
R355, 356	ERDS2TJ472	1/4W 4.7K
R357	ERDS2TJ101	1/4W 100
R358	ERDS2TJ470	1/4W 47
R359	ERDS2EJ121	1/4W 120
R360	ERDS2TJ101	1/4W 100
R361	ERDS2TJ680T	1/4W 68
R362	ERDS2TJ103	1/4W 10K
R363	ERDS2TJ101	1/4W 100
R364	ERDS2TJ470	1/4W 47
R365	ERDS2EJ121	1/4W 120
R366	ERDS2TJ101	1/4W 100
R367	ERDS2TJ680T	1/4W 68
R368	ERDS2TJ103	1/4W 10K
R369, 370	ERDS2TJ473	1/4W 47K
R371	ERDS2TJ222	1/4W 2.2K
R372	ERDS2TJ472	1/4W 4.7K
R401, 402	ERDS2TJ332	1/4W 3.3K
R403, 404	ERDS2TJ103	1/4W 10K
R405-408	ERDS2TJ222	1/4W 2.2K
R409-416	ERDS2TJ102	1/4W 1K
R417, 418	ERDS2TJ473	1/4W 47K
R419, 420	ERDS2TJ104	1/4W 100K
R421, 422	ERDS2TJ222	1/4W 2.2K
R423, 424	ERDS2TJ102	1/4W 1K
R425-427	ERDS2TJ103	1/4W 10K
R428, 429	ERDS2TJ473	1/4W 47K
R430	ERDS2TJ104	1/4W 100K
R451, 452	ERDS2TJ224T	1/4W 220K
R453, 454	ERDS2TJ391	1/4W 390
R455, 456	ERDS2TJ563	1/4W 56K
R457, 458	ERDS2TJ271	1/4W 270
R459, 460	ERDS2TJ680T	1/4W 68
R461, 462	ERDS2TJ184T	1/4W 180K
R463, 464	ERDS2TJ123	1/4W 12K
R465, 466	ERDS2TJ563	1/4W 56K
R467, 468	ERDS2TJ102	1/4W 1K
R469, 470	ERDS2TJ471	1/4W 470
R501, 502	ERDS2TJ222	1/4W 2.2K
R503-506	ERDS2TJ103	1/4W 10K
R507	ERDS2TJ153	1/4W 15K
R509, 510	ERDS2TJ102	1/4W 1K
R511, 512	ERDS2TJ224T	1/4W 220K
R513, 514	ERDS2TJ222	1/4W 2.2K
R515, 516	ERDS2TJ123	1/4W 12K
R517, 518	ERDS2TJ393	1/4W 39K
R519, 520	ERDS2TJ102	1/4W 1K
R521, 522	ERDS2TJ221	1/4W 220
R523-526	ERDS2TJ102	1/4W 1K
R527, 528	ERDS2TJ394	1/4W 390K
R529	ERDS2TJ104	1/4W 100K
R530	ERDS2TJ103	1/4W 10K
R531	ERDS2TJ104	1/4W 100K
R532	ERDS2TJ103	1/4W 10K
R533, 534	ERDS2TJ122	1/4W 1.2K
R551, 552	ERDS2TJ222	1/4W 2.2K
R553, 554	ERDS2TJ104	1/4W 100K
R555	ERDS2TJ223	1/4W 22K
R556	ERDS2TJ912T	1/4W 9.1K
R557, 558	ERDS2TJ102	1/4W 1K
R559, 560	ERDS2TJ104	1/4W 100K
R561	ERDS2TJ222	1/4W 2.2K
R563	ERDS2TJ102	1/4W 1K
R564	ERDS2TJ272T	1/4W 2.7K
R571, 572	ERDS2TJ103	1/4W 10K
R573	ERDS2TJ104	1/4W 100K
R574	ERDS2TJ394	1/4W 390K
R575	ERDS2TJ102	1/4W 1K
R581	ERDS2TJ153	1/4W 15K
R582	ERDS2TJ223	1/4W 22K
R583	ERDS2TJ684	1/4W 680K
R584	ERDS2TJ222	1/4W 2.2K
R585	ERDS2TJ824	1/4W 820K
R586	ERDS2TJ272T	1/4W 2.7K
R587	ERDS2TJ104	1/4W 100K
R588	ERDS2TJ103	1/4W 10K
R589	ERDS2TJ392T	1/4W 3.9K
R590	ERDS2TJ104	1/4W 100K
R591	ERDS2TJ103	1/4W 10K
R592	ERDS2TJ472	1/4W 4.7K
R593	ERDS2TJ223	1/4W 22K
R594, 595	ERDS2TJ103	1/4W 10K
R596, 597	ERDS2TJ473	1/4W 47K
R601, 602	ERDS2TJ681	1/4W 680
R603, 604	ERDS2TJ563	1/4W 56K
R605, 606	ERDS2TJ182	1/4W 1.8K
R607, 608	ERDS2TJ563	1/4W 56K
R609, 610	ERDS2TJ470	1/4W 47
R611, 612	ERDS1FVJ100T	1/2W 10 ⚠
R613, 614	ERDS2TJ101	1/4W 100
R615	ERDS2TJ473	1/4W 47K ⚠
R616	ERDS2TJ684	1/4W 680K
R617	ERD2FCVG470T	1/4W 47 ⚠
R618	ERD25FJ101	1/4W 100 ⚠
R619, 620	ERG2SJ331P	2W 330
R621	ERDS2TJ684	1/4W 680K ⚠
R622	ERDS2TJ103	1/4W 10K ⚠
R623	ERDS2TJ154	1/4W 150K ⚠
R624	ERDS2TJ223	1/4W 22K
R625	ERDS2TJ103	1/4W 10K
R626	ERDS1FVJ471T	1/2W 470 ⚠
R629, 630	ERDS2TJ221	1/4W 220
R651-654	ERDS2TJ223	1/4W 22K
R655	ERDS2TJ682T	1/4W 6.8K
R656	ERDS2TJ104	1/4W 100K
R657	ERDS2TJ103	1/4W 10K
R658	ERDS2TJ223	1/4W 22K
R659	ERDS2TJ332	1/4W 3.3K
R660	ERDS1FVJ390T	1/2W 39 ⚠
R661	ERDS2TJ220T	1/4W 22
R662	ERDS2TJ222	1/4W 2.2K
R663	ERDS2TJ103	1/4W 10K
R664, 665	ERDS2TJ333	1/4W 33K
R666	ERDS2TJ153	1/4W 15K
R667, 668	ERDS2TJ103	1/4W 10K
R705, 706	ERDS1FVJ2R2T	1/2W 2.2 ⚠
R707	ERDS2TJ332	1/4W 3.3K ⚠
R708	ERDS2TJ102	1/4W 1K ⚠
R709, 710	ERD25FVJ4R7T	1/4W 4.7 ⚠
R711	ERD25FVJ221T	1/4W 220 ⚠
R712, 713	ERDS2TJ1R2	1/4W 1.2 ⚠
R714	ERDS2TJ472	1/4W 4.7K ⚠
R715, 716	ERDS2TJ1R5T	1/4W 1.5 ⚠
R717	ERDS2TJ682T	1/4W 6.8K
R718	ERDS2TJ562	1/4W 5.6K
R719, 720	ERDS1FVJ150T	1/2W 15 ⚠
R721	ERDS2TJ182	1/4W 1.8K
R722, 723	ERDS1FVJ180T	1/2W 18 ⚠
R724	ERDS2TJ183T	1/4W 18K ⚠
R725	ERDS2TJ102	1/4W 1K ⚠
R726	ERDS2TJ101	1/4W 100 ⚠
R727	ERD25FVJ180T	1/4W 18 ⚠
R728	ERDS1FVJ100T	1/2W 10 ⚠
R729	ERDS2TJ332	1/4W 3.3K ⚠
R730	ERDS2TJ133T	1/4W 13K
R731	ERDS2TJ123	1/4W 12K
R732	ERDS1FVJ2R2T	1/2W 2.2 E, EB, EG⚠
R732	ERDS1FVJ3R3T	1/2W 3.3 G, GN⚠
R752, 753	ERDS2TJ472	1/4W 4.7K
R754	ERDS2TJ102	1/4W 1K
R801	ERDS2TJ681	1/4W 680
R802	ERDS2TJ102	1/4W 1K
R803	ERDS2TJ105T	1/4W 1M
R804	ERDS2TJ104	1/4W 100K
R805	ERDS2TJ223	1/4W 22K
R806	ERDS2TJ471	1/4W 470
R807	ERDS2TJ822	1/4W 8.2K
R808	ERDS2TJ563	1/4W 56K
R809-812	ERDS2TJ102	1/4W 1K
R813, 814	ERDS2TJ122	1/4W 1.2K
R815, 816	ERDS2TJ152	1/4W 1.5K
R817, 818	ERDS2TJ182	1/4W 1.8K
R819	ERDS2TJ222	1/4W 2.2K
R820, 821	ERDS2TJ332	1/4W 3.3K
R822, 823	ERDS2TJ472	1/4W 4.7K
R824, 825	ERDS2TJ682T	1/4W 6.8K
R826	ERDS2TJ123	1/4W 12K
R827	ERDS2TJ103	1/4W 10K
R828, 829	ERDS1FVJ331T	1/2W 330 ⚠
R830	ERDS2TJ102	1/4W 1K
R831	ERDS2TJ152	1/4W 1.5K
R832	ERDS2TJ390	1/4W 39
R833	ERDS2TJ222	1/4W 2.2K
R835, 836	ERDS2TJ824	1/4W 820K
R837, 838	ERDS2TJ154	1/4W 150K
R839, 840	ERDS2TJ153	1/4W 15K
R843, 844	ERDS2TJ182	1/4W 1.8K
R845-849	ERDS2TJ473	1/4W 47K
R851	ERDS1FVJ2R2T	1/2W 2.2 ⚠
R853	ERDS2TJ473	1/4W 47K
R891	ERDS2TJ102	1/4W 1K
R901	ERDS2TJ102	1/4W 1K
R902	ERDS2TJ681	1/4W 680
R903, 904	ERDS2TJ103	1/4W 10K
R905, 906	ERDS2TJ102	1/4W 1K
R907, 908	ERDS2TJ182	1/4W 1.8K
R909, 910	ERDS2TJ222	1/4W 2.2K
R911, 912	ERDS2TJ392T	1/4W 3.9K
R913, 914	ERDS2TJ562	1/4W 5.6K
R915, 916	ERDS2TJ123	1/4W 12K
R917, 918	ERDS2TJ273	1/4W 27K
R919	ERDS2TJ224T	1/4W 220K
R920	ERDS2TJ271	1/4W 270
R921	ERDS2EJ121	1/4W 120
R922	ERDS2TJ472	1/4W 4.7K
R925, 926	ERDS2TJ102	1/4W 1K
R928, 929	ERDS2TJ103	1/4W 10K
R930, 931	ERD25FJ101	1/4W 100 ⚠
R934	ERDS2TJ221	1/4W 220
R938	ERDS2TJ102	1/4W 1K
R941, 942	ERDS2TJ102	1/4W 1K
R971, 972	ERDS2TJ221	1/4W 220
R973	ERDS2TJ391	1/4W 390
R1002, 1003	ERDS2TJ105T	1/4W 1M
R1004	ERDS2TJ103	1/4W 10K
R1005	ERDS2TJ105T	1/4W 1M
R1006	ERDS2TJ103	1/4W 10K
R1007, 1008	ERDS2TJ104	1/4W 100K
R1009, 1010	ERDS2TJ332	1/4W 3.3K
R1011, 1012	ERDS2TJ101	1/4W 100
R1013	ERDS2TJ821	1/4W 820
R1014-1016	ERDS2TJ103	1/4W 10K
R1021-1025	ERDS2TJ103	1/4W 10K
R1026	ERDS2TJ105T	1/4W 1M
R1027	ERDS2TJ472	1/4W 4.7K
R1028-1030	ERDS2TJ103	1/4W 10K
R1031	ERDS2TJ105T	1/4W 1M
R1035-1038	ERDS2TJ822	1/4W 8.2K
R1039, 1040	ERDS2TJ333	1/4W 33K
R1041	ERDS2TJ105T	1/4W 1M
R1046	ERDS2TJ822	1/4W 8.2K
R1048	ERDS2TJ822	1/4W 8.2K
R1050	ERDS2TJ105T	1/4W 1M
R1052	ERDS2TJ333	1/4W 33K
R1053	ERDS2TJ224T	1/4W 220K
R1054	ERDS2TJ222	1/4W 2.2K
R1056, 1057	ERDS2TJ103	1/4W 10K
R1061-1072	ERDS2TJ822	1/4W 8.2K
R1077, 1078	ERDS2TJ101	1/4W 100
R1081, 1082	ERDS2TJ123	1/4W 12K
R1083, 1084	ERDS2TJ472	1/4W 4.7K
R1085-1088	ERDS2TJ103	1/4W 10K
R1089	ERDS1FVJ331T	1/2W 330 ⚠
R1091	ERDS2TJ224T	1/4W 220K
R1103	ERDS2TJ273	1/4W 27K

Ref. No.	Part No.	Values & Remarks
R1104	ERDS2TJ183T	1/4W 18K
R1105, 1106	ERDS2TJ682T	1/4W 6.8K
R1107-1112	ERDS2TJ474	1/4W 470K
R1113-1115	ERDS2TJ332	1/4W 3.3K
R1116	ERDS2TJ563	1/4W 56K
R1153-1158	ERDS2TJ473	1/4W 47K
R1161	ERDS2TJ394	1/4W 390K
R1162	ERDS2TJ152	1/4W 1.5K
R1163-1166	ERDS2TJ224T	1/4W 220K
R1171, 1172	ERDS2TJ103	1/4W 10K
R1301, 1302	ERDS2TJ222	1/4W 2.2K
R1303, 1304	ERDS2TJ563	1/4W 56K
R1307, 1308	ERDS2TJ563	1/4W 56K
R1309, 1310	ERDS2TJ332	1/4W 3.3K
R1311	ERDS2TJ684	1/4W 680K
R1313	ERDS2TJ564	1/4W 560K ⚠
R1314	ERDS2TJ154	1/4W 150K ⚠
R1315, 1316	ERD25FVJ4R7T	1/4W 4.7 ⚠
R1317, 1318	ERDS2TJ104	1/4W 100K
R1320	ERDS2TJ222	1/4W 2.2K
R1321, 1322	ERDS2TJ100	1/4W 10
R1323	ERDS2TJ102	1/4W 1K
R1328	ERD25FJ470	1/4W 47 ⚠
R1424	ERD25FJ470	1/4W 47 ⚠
R2001	ERDS2TJ473	1/4W 47K
R2007, 2008	ERDS2TJ104	1/4W 100K
R2011, 2012	ERDS2TJ223	1/4W 22K
R2031, 2032	ERDS2TJ333	1/4W 33K
R2033, 2034	ERDS2TJ562	1/4W 5.6K
R2035-2038	ERDS2TJ222	1/4W 2.2K
R2039, 2040	ERDS2TJ562	1/4W 5.6K
		CAPACITORS
C101, 102	ECBT1H150JC5	50V 15P
C103	ECBT1H102KB5	50V 1000P
C105	ECEA0JKA221B	6.3V 220U
C106	ECKR1H103ZF5	50V 0.01U
C107	ECKT1H223ZF	50V 0.022U
C108	ECEA1EKA4R7B	25V 4.7U
C109	ECEA1CKA330B	16V 33U
C110, 111	ECBT1H102KB5	50V 1000P
C201, 202	ECKR1H103ZF5	50V 0.01U
C204	ECBT1C103MS5	16V 0.01U
C205	ECKT1H223ZF	50V 0.022U
C206	ECBT1H150JC5	50V 15P
C207	ECBT1C103MS5	16V 0.01U
C208	ECEA0JKA101B	6.3V 100U
C209	ECEA1HKA100B	50V 10U
C210-212	ECKT1H223ZF	50V 0.022U
C213	ECBT1H101KB5	50V 100P
C214	ECEA1CKA100B	16V 10U

Ref. No.	Part No.	Values & Remarks
C215	ECKR1H103ZF5	50V 0.01U
C216	ECEA1CKA100B	16V 10U
C217	ECEA1HKA010B	50V 1U
C220	ECEA1CKA100B	16V 10U
C221	ECFR1E183KR	25V 0.018U
C222	ECQV1H473JM3	50V 0.047U
C225	ECBT1H180JC5	50V 18P
C226	ECKR1H103ZF5	50V 0.01U
C227	ECEA1CKA100B	16V 10U
C228	ECBT1H8R2KC5	50V 8.2P E, EB, G, GN
C228	ECBT1H100JC5	50V 10P EG
C229	ECBT1H102KB5	50V 1000P
C230	ECCR1H680JS5	50V 68P
C231	ECCR1H820JS5	50V 82P
C232	ECBT1H471KB5	50V 470P
C251	ECKT1H223ZF	50V 0.022U E, EB, G, GN
C252	ECEA1HKA010B	50V 1U E, EB, G, GN
C253	ECKT1H223ZF	50V 0.022U E, EB, G, GN
C301	ECA1CM101B	16V 100U
C302	ECEA1HKAR47B	50V 0.47U
C303	ECEA1HKA010B	50V 1U
C304-306	ECEA1HKA3R3B	50V 3.3U
C307, 308	ECFR1E392KR	25V 3900P
C309	ECKT1H223ZF	50V 0.022U
C310	ECFR1E473KR	25V 0.047U
C311	ECQP1471JZ	100V 470P
C313, 314	ECBT1H102KB5	50V 1000P
C321	ECEA1CKA100B	16V 10U
C323, 324	ECFR1E332KR	25V 3300P
C325	ECBT1H330J5	50V 33P
C326	ECKR1H103ZF5	50V 0.01U
C327	ECBT1H102KB5	50V 1000P EG
C351, 352	ECEA0JKA470B	6.3V 47U
C353	ECBT1H220J5	50V 22P
C354	ECA0JM471B	6.3V 470U
C355	ECBT1H220J5	50V 22P
C356	ECA0JM471B	6.3V 470U
C357	ECEA1CKA100B	16V 10U
C358, 359	ECEA1CKA470B	16V 47U
C401	ECEA1VKA4R7B	35V 4.7U
C402	ECBT1E103ZF	25V 0.01U
C403, 404	ECEA1VKA4R7B	35V 4.7U
C405, 406	ECBT1H101KB5	50V 100P
C407	ECA0JAP101B	6.3V 100U
C408	ECBT1H331KB5	50V 330P
C409, 410	ECEA1CKA220B	16V 22U
C411, 412	ECBT1H101KB5	50V 100P
C413, 414	ECEA1CKA100B	16V 10U
C415, 416	ECBT1E103ZF	25V 0.01U
C417, 418	ECBT1H101KB5	50V 100P
C419-422	ECBT1H331KB5	50V 330P
C423-428	ECBT1H101KB5	50V 100P

Ref. No.	Part No.	Values & Remarks
C451, 452	ECEA1VKA4R7B	35V 4.7U
C453, 454	ECBT1H101KB5	50V 100P
C455, 456	ECBT1H102KB5	50V 1000P
C457, 458	ECEA1AKA330B	10V 33U
C459, 460	ECFR1E223KR	25V 0.022U
C461, 462	ECFR1E682KR	25V 6800P
C463, 464	ECEA1VKA4R7B	35V 4.7U
C465, 466	ECBT1E103ZF	25V 0.01U
C467, 468	ECBT1H180J5	50V 18P
C469, 470	ECBT1H221KB5	50V 220P
C501, 502	ECFR1E333KR	25V 0.033U
C503, 504	ECEA1HKA3R3B	50V 3.3U
C505, 506	ECBT1H150J5	50V 15P
C507, 508	ECBT1H331KB5	50V 330P
C509, 510	ECEA0JKA470B	6.3V 47U
C511, 512	ECBT1H680J5	50V 68P
C513, 514	ECBT1E103ZF	25V 0.01U
C515, 516	ECEA1HKA3R3B	50V 3.3U
C517, 518	ECKR1H103ZF5	50V 0.01U
C519	ECBT1E103ZF	25V 0.01U
C551, 552	ECEA1HKA3R3B	50V 3.3U
C553-557	ECBT1H101KB5	50V 100P
C558	ECBT1H221KB5	50V 220P E, EB, EG
C558	ECBT1H101KB5	50V 100P G, GN
C559, 560	ECEA1HKA3R3B	50V 3.3U
C561, 562	ECEA1CKA100B	16V 10U
C563	ECBT1H331KB5	50V 330P
C564, 565	ECBT1H221KB5	50V 220P
C566	ECBT1H331KB5	50V 330P
C571	ECKR1H103ZF5	50V 0.01U
C581	ECEA1VKA4R7B	35V 4.7U
C582	ECBT1H330J5	50V 33P
C583	ECEA1HKA010B	50V 1U
C584	ECBT1H330J5	50V 33P
C585	ECEA1HKA2R2B	50V 2.2U
C586, 587	ECBT1E103ZF	25V 0.01U
C601, 602	ECEA1EKN3R3B	25V 3.3U ⚠
C603, 604	ECKD1H471KB	50V 470P
C605, 606	ECEA1CKN220B	16V 22U ⚠
C607, 608	ECCD1H150KC	50V 15P
C609, 610	ECCR1H221K5	50V 220P
C611, 612	ECQV1H473JM3	50V 0.047U
C613	ECA1HM470B	50V 47U
C614	ECA1JM330B	63V 33U
C615	ECEA2AU100	100V 10U
C616	ECEA2AN2R2SB	100V 2.2U ⚠
C619, 620	ECBT1H331KB5	50V 330P
C621-624	ECKT1H223ZF	50V 0.022U
C625-627	ECKR1H103ZF5	50V 0.01U
C651	ECEA1HKA2R2B	50V 2.2U
C652	ECEA1CKA100B	16V 10U
C653	ECBT1E223ZF	25V 0.022U

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Ref. No.	Part No.	Values & Remarks
C654	ECEA1CKA470B	16V 47U
C655	ECEA0JKA221B	6.3V 220U
C701	ECKR1H103ZF5	50V 0.01U
C702	ECQE2104KF3	250V 0.1U ⚠
C703, 704	ECES71V103VN	71V 10000U ⚠
C705	ECKR2H103ZU	500V 0.01U ⚠
C706	ECA1HM102E	50V 1000U ⚠
C707	ECA1VM101B	35V 100U
C708	ECKR1H103ZF5	50V 0.01U
C709	ECEA1CKA330B	16V 33U
C710	ECKR1H103ZF5	50V 0.01U
C711	ECKR1H103ZF5	50V 0.01U ⚠
C712	ECA1HM470B	50V 47U ⚠
C713	ECKR1H103ZF5	50V 0.01U ⚠
C714	ECEA1HKA4R7B	50V 4.7U
C715	ECEA1CKA470B	16V 47U ⚠
C716	ECQE2104KF3	250V 0.1U ⚠
C751	ECKWNS103ZVS	500V 0.01U ⚠
C752	ECKR1H103ZF5	50V 0.01U ⚠
C753	ECA1EM102E	25V 1000U
C754	ECBT1E103ZF	25V 0.01U
C755	ECEA1EKA220B	25V 22U
C756	ECKR1H103ZF5	50V 0.01U
C757	ECEA1CKA470B	16V 47U
C758	ECEA1AKA101B	10V 100U
C801	ECA1AM102B	10V 1000U
C802	ECBT1E103ZF	25V 0.01U
C803	ECA1AM102B	10V 1000U
C804	ECA0JM102B	6.3V 1000U
C805	ECEA0JKA221B	6.3V 220U
C806	ECBT1E103ZF	25V 0.01U
C807, 808	ECEA1HKAR47B	50V 0.47U
C809	ECEA0JKA470B	6.3V 47U
C810	ECKR1H103ZF5	50V 0.01U
C811-814	ECBT1E103ZF	25V 0.01U
C815	ECEA1CKA470B	16V 47U
C816	ECEA1CKA100B	16V 10U
C817, 818	ECBT1H102KB5	50V 1000P
C819	ECFR1E102KR	25V 1000P
C820	ECEA1CKA470B	16V 47U
C821, 822	ECEA1HKA3R3B	50V 3.3U
C823, 824	ECEA1HKA010B	50V 1U
C851, 852	ECEA0JKA101B	6.3V 100U
C853, 854	ECFR1E104KR	25V 0.1U
C855	ECBT1H101KB5	50V 100P
C891	ECFR1E392KR	25V 3900P
C901	ECA1AM102B	10V 1000U
C902	ECBT1E103ZF	25V 0.01U
C904, 905	ECA0JM102B	6.3V 1000U
C906	ECBT1E103ZF	25V 0.01U
C909, 910	ECBT1H101KB5	50V 100P
C911, 912	ECEA2AU100	100V 10U ⚠
C913, 914	ECEA1VKA100B	35V 10U
C916	ECEA1HKA010B	50V 1U
C918	ECBT1H101KB5	50V 100P
C971	ECKR1H103ZF5	50V 0.01U
C1001	ECBT1E103ZF	25V 0.01U
C1002	ECBT1H330J5	50V 33P
C1003	ECBT1E103ZF	25V 0.01U
C1004	ECEA0JKA221B	6.3V 220U
C1005, 1006	ECBT1E103ZF	25V 0.01U
C1007	ECBT1E223ZF	25V 0.022U
C1008, 1009	ECEA1CKA100B	16V 10U
C1010, 1011	ECQB1H332JF3	50V 3300P
C1012	ECEA0JKA221B	6.3V 220U
C1013	ECBT1E103ZF	25V 0.01U
C1014	ECBT1E223ZF	25V 0.022U
C1015, 1016	ECBT1E103ZF	25V 0.01U
C1017	ECEA0JKA101B	6.3V 100U
C1018-1020	ECBT1H821KB5	50V 820P
C1021	ECBT1H101KB5	50V 100P
C1022	ECBT1H680J5	50V 68P
C1023	ECQV1H154JM3	50V 0.15U
C1024-1026	ECEA1CKA100B	16V 10U
C1027	ECBT1E103ZF	25V 0.01U
C1028	ECEA0JKA221B	6.3V 220U
C1029	ECA1AM102B	10V 1000U
C1031, 1032	ECBT1H330J5	50V 33P
C1033, 1034	ECFR1E272KR	25V 2700P
C1035, 1036	ECBT1H391KB5	50V 390P
C1037, 1038	ECQB1H682JF3	50V 6800P
C1039	ECEA1CKA100B	16V 10U
C1040	ECBT1E103ZF	25V 0.01U
C1042	ECBT1H330J5	50V 33P
C1044	ECBT1H221KB5	50V 220P
C1045	ECFR1E182KR	25V 1800P
C1046	ECFR1E272KR	25V 2700P
C1048	ECEA1HKA010B	50V 1U
C1051, 1052	ECBT1E103ZF	25V 0.01U
C1055, 1056	ECEA1HKA010B	50V 1U
C1057, 1058	ECBT1H391KB5	50V 390P
C1059, 1060	ECQB1H682JF3	50V 6800P
C1061, 1062	ECFR1E272KR	25V 2700P
C1063, 1064	ECQB1H682JF3	50V 6800P
C1065, 1066	ECBT1H391KB5	50V 390P
C1067, 1068	ECFR1E272KR	25V 2700P
C1069, 1070	ECEA1CKA100B	16V 10U
C1075, 1076	ECBT1H101KB5	50V 100P
C1077, 1078	ECEA1CKA100B	16V 10U
C1079, 1080	ECEA1EKA4R7B	25V 4.7U
C1081, 1082	ECBT1H680J5	50V 68P
C1085, 1086	ECBT1E103ZF	25V 0.01U
C1087	ECBT1H331KB5	50V 330P
C1088	ECBT1H101KB5	50V 100P
C1089	ECA0JM102B	6.3V 1000U
C1103-1110	ECEA1HKA3R3B	50V 3.3U
C1111, 1112	ECEA1CKA470B	16V 47U
C1113, 1114	ECBT1E103ZF	25V 0.01U
C1115-1117	ECBT1H181KB5	50V 180P
C1153, 1154	ECEA1HKA3R3B	50V 3.3U
C1157, 1158	ECEA1HKA3R3B	50V 3.3U
C1161, 1162	ECEA1CKA100B	16V 10U
C1164	ECEA1EKA4R7B	25V 4.7U
C1301, 1302	ECEA1HKA3R3B	50V 3.3U
C1303, 1304	ECBA1H681KB5	50V 680P
C1305, 1306	ECBT1H821KB5	50V 820P
C1307, 1308	ECEA1HU220	50V 22U
C1309, 1310	ECBT1H100JC5	50V 10P
C1311	ECEA2AU100	100V 10U
C1312	ECEA1JU220	63V 22U
C1313, 1314	ECKT1H223ZF	50V 0.022U
C1315, 1316	ECEA1VU332	35V 3300U ⚠
C1317	ECKR2H103ZU	500V 0.01U ⚠
C2001, 2002	ECEA1HKA3R3B	50V 3.3U
C2005-2007	ECEA1CKA100B	16V 10U
C2008	ECEA1HKA100B	50V 10U
C2009-2012	ECQB1H393JF3	50V 0.039U
C2013-2016	ECBT1C103KS5	16V 0.01U
C2017-2020	ECBT1C222KR5	16V 2200P
C2021-2024	ECBT1H102KB5	50V 1000P
C2025, 2026	ECEA0JKA101B	6.3V 100U
C2027	ECBT1E103ZF	25V 0.01U
C2028	ECEA0JKA101B	6.3V 100U
C2029, 2030	ECBT1E103ZF	25V 0.01U
C2031, 2032	ECBT1H331KB5	50V 330P
C2037-2040	ECEA1HKA3R3B	50V 3.3U
C2041	ECEA1CKA100B	16V 10U
C2051, 2052	ECBT1E103ZF	25V 0.01U

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