ORDER NO. AD9403057C8

Service Manual

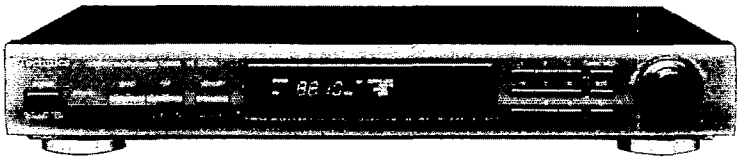
Stereo Synthesizer Tuner

Tuner

ST-GT350

Colour

(K)... Black Type



Area

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

■ SPECIFICATIONS (DIN 45 500)

■ FM TUNER SECTION

Frequency range 87.50−108.00 MHz (0.05 MHz steps)
Sensitivity 1.5 µV (IHF, usable)
S/N 30 dB 1.3 µV (75 Ω)
S/N 26 dB 1.2 µV (75 Ω)
S/N 20 dB 0.9 µV (75 Ω)
IHF 46 dB stereo quieting sensitivity 28 µV (75 Ω)
Total harmonic distortion
MONO 0.2%
STEREO 0.3%
S/N
MONO 70 dB (75 dB, IHF)
STEREO 65 dB (70 dB, IHF)
Frequency response 20 Hz−15 kHz, +0.5 dB to −1.5 dB
Alternate channel selectivity
±400 kHz 65 dB
Capture ratio 1.0 dB
Image rejection at 98 MHz 45 dB
IF rejection at 98 MHz 90 dB
Spurious response rejection at 98 MHz 75 dB
AM suppression 55 dB
Stereo separation
1 kHz 40 dB
Carrier leak
19 kHz −30 dB (−35 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 terminal(s) 75 Ω (unbalanced)

■ GENERAL

Output voltage
for (E) (EB) areas 0.3 V (0.6 V, IHF)
for (EG, EI) areas 0.6 V (1.2 V, IHF)
Power consumption 9 W
Power supply
for (GC) area AC 50 Hz/60 Hz, 110 V−127 V/220 V−240 V
for others AC 50 Hz/60 Hz, 230 V−240 V
Dimensions (W × H × D) 430 × 69.3 × 301 mm
Weight 2.6 kg

■ AM TUNER SECTION

Frequency range
for (E, EB, EF, EP) areas
MW 522 kHz~1611 kHz (9-kHz steps)
530 kHz~1620 kHz (10-kHz steps)
LW 144 kHz~288 kHz (9-kHz steps)
for (EG, EI, GC, GN) areas
AM 522 kHz~1611 kHz (9-kHz steps)
530 kHz~1620 kHz (10-kHz steps)
Sensitivity (S/N 20 dB)
for (E, EB, EF, EP) areas
MW (at 999 kHz) 20 µV, 600 µV/m
LW (at 216 kHz) 150 µV
for (EG, EI, GC, GN) areas
AM (at 999 kHz) 20 µV, 600 µV/m
Selectivity (±9 kHz)
for (E, EB, EF, EP) areas
MW (at 999 kHz) 40 dB
LW (at 216 kHz) 40 dB
for (EG, EI, GC, GN) areas
AM (at 999 kHz) 40 dB
Image rejection
for (E, EB, EF, EP) areas
MW (at 999 kHz) 40 dB
LW (at 216 kHz) 40 dB
for (EG, EI, GC, GN) areas
AM (at 999 kHz) 40 dB
IF rejection
for (E, EB, EF, EP) areas
MW (at 999 kHz) 50 dB
LW (at 216 kHz) 50 dB
for (EG, EI, GC, GN) areas
AM (at 999 kHz) 50 dB

Notes:

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

Technics

■ CONTENTS

■ CAUTION FOR AC MAINS LEAD

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⓐ or the BSI mark ♡ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

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

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT

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

Blue: Neutral
Brown: Live

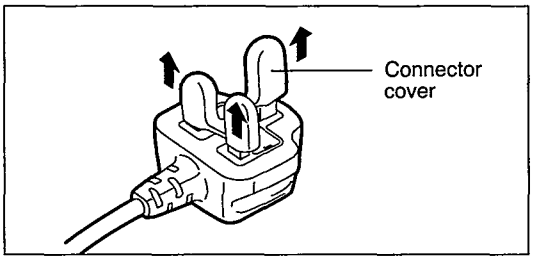
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol ⏚.

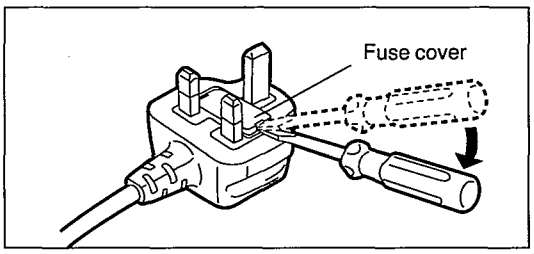
Before use

Remove the connector cover as follows.

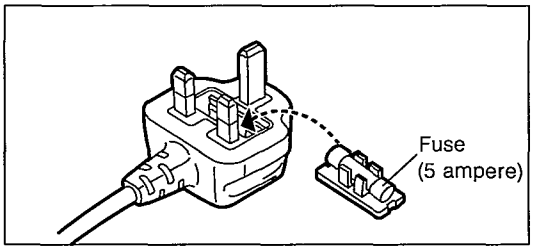


How to replace the fuse

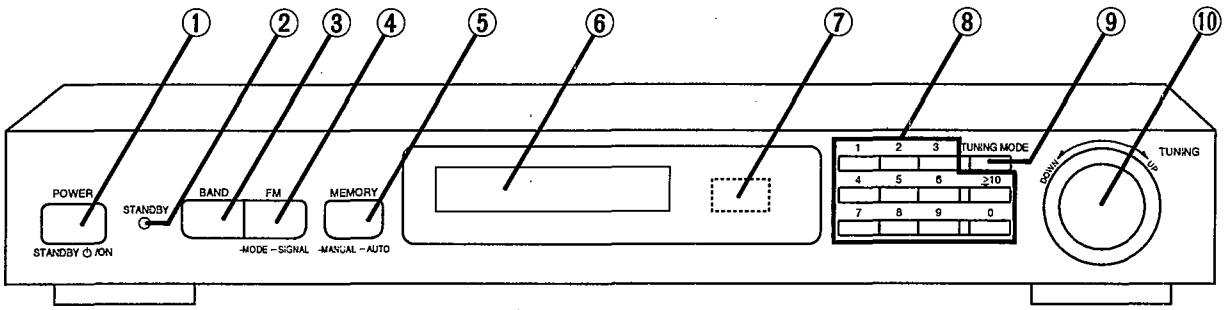
1. Remove the fuse cover with a screwdriver.



2. Replace the fuse and attach the fuse cover.



■ FRONT PANEL CONTROLS

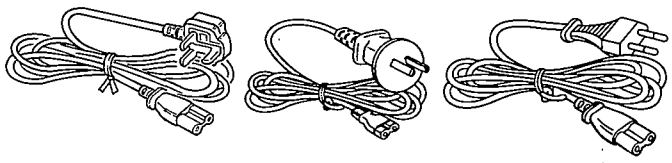


No.	Name
①	**Power "STANDBY ⏻ /ON" switch (POWER, STANDBY ⏻ /ON)** Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
②	**"STANDBY" indicator (STANDBY)** When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
③	**Band select button (BAND)**
④	**FM mode select/FM signal-strength indication button (FM)**
⑤	**Memory button (MEMORY)**
⑥	**Display**
⑦	**Remote control signal sensor** When connecting a Technics amplifier with the remote control transmitter to this unit, you can operate this unit using a remote control transmitter of the amplifier. (See the operating instructions of the amplifier.)
⑧	**Preset-tuning buttons (1 – 0, ≥10)**
⑨	**Tuning mode select button (TUNING MODE)**
⑩	**Tuning control (TUNING)**

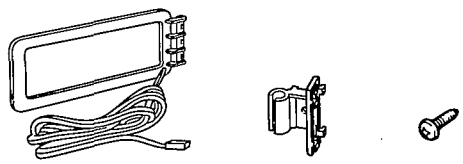
■ ACCESSORIES

AC power supply cord ..... 1 pc.

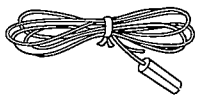
(For (EB) area)	**(For (GN) area)**	**(For others)**
(VJA0733)	(RJA0036-K)	(RJA0019-2K)



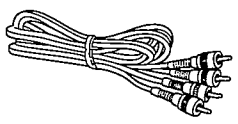
AM loop antenna set (RSA0010)
- AM loop antenna..... 1 pc.
- AM antenna holder (RMN0244)..... 1 pc.
- Screw (XTN3+10AFZ)..... 1 pc.



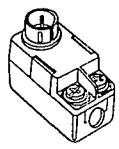
FM indoor antenna ..... 1 pc.
(RSA0007)



Stereo connection cable (SJP2276) ..... 1 pc.

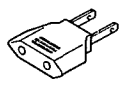


Antenna plug (RFE0014)..... 1 pc.
(For (GC, GN) areas only)



Attachment plug..... 1 pc.
(SJP9009)
(For (EB) area only)

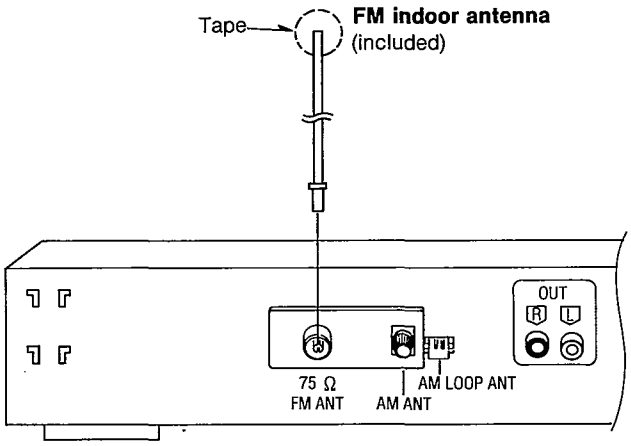
Power plug adaptor..... 1 pc.
(SJP5213-1)
(For (GC) area only)



■CONNECTIONS

To connect the FM antenna

FM indoor antenna (included)



Attach to a wall (using a tape) facing in the direction of best reception.

For best reception sound quality:

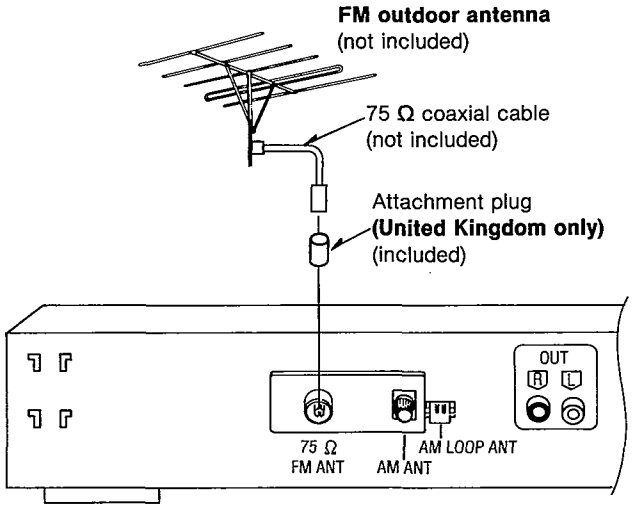
Find the optimum height and direction that gives the maximum signal reception strength.

Note

If the FM indoor antenna does not provide satisfactory reception, an outdoor antenna should be used.

FM outdoor antenna (not included)

The outdoor antenna may be required in a mountainous region, or if this unit is located inside a reinforced-concrete building, etc. Disconnect the FM indoor antenna if an FM outdoor antenna is installed.

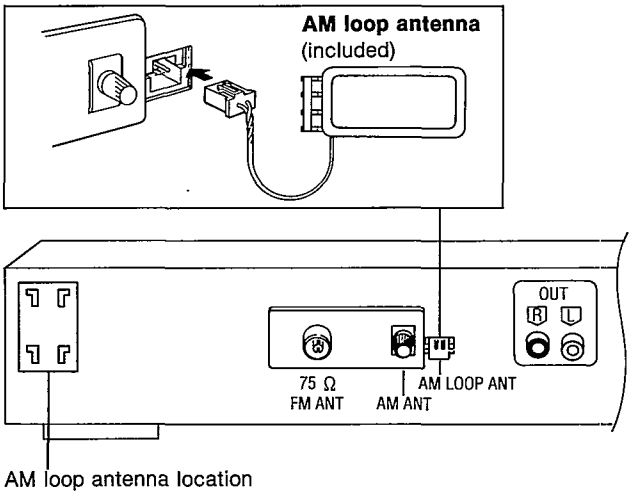


Note

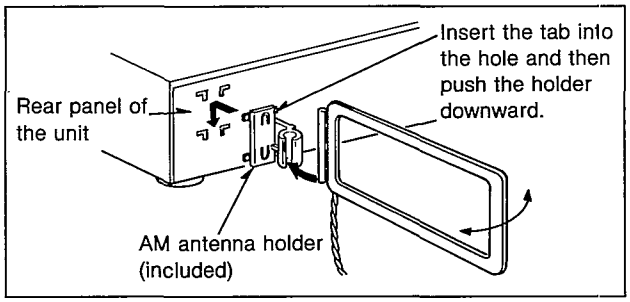
An outdoor antenna should be installed by a competent technician only.

To connect the AM (MW/LW) antenna

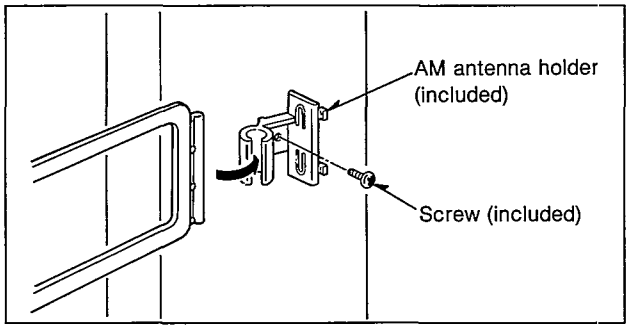
AM loop antenna (included)



Install the AM antenna holder (included) at the rear panel of this unit and then attach the AM loop antenna to the AM antenna holder (facing in the direction of best reception).



When mounting the antenna to a wall or a rack



Pay attention to the following points when mounting the antenna.

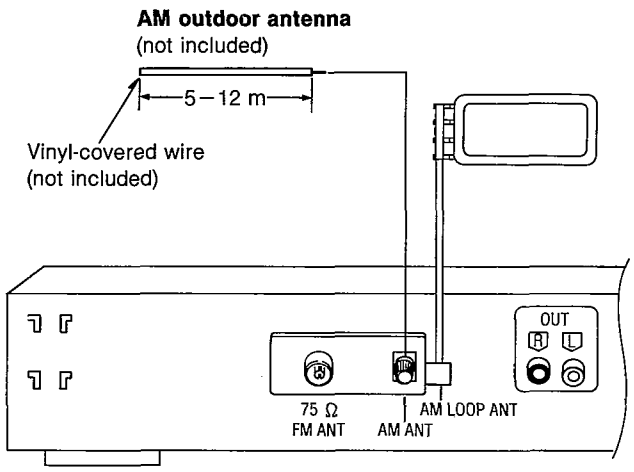
- Do not mount it horizontally (Doing so will impair reception).
- Do not mount it close to power cords, speaker wires or metal surfaces (Doing so will result in noise).
- Do not mount it close to a tape deck. When the tape deck is being used, chirping or beeping sounds may result.

AM outdoor antenna (not included)

An outdoor antenna may be required in a mountainous region, or if this unit is located inside a reinforced-concrete building, etc. Use 5–12 m of vinyl-covered wire horizontally at the window or other convenient location.

Note

- Be sure to connect the AM loop antenna even when an outdoor antenna is used.
- When the unit is not in use, disconnect the outdoor antenna to prevent possible damage that may be caused by lightning. Never use an outdoor antenna during an electrical storm.



Connection to the amplifier and of the power cord

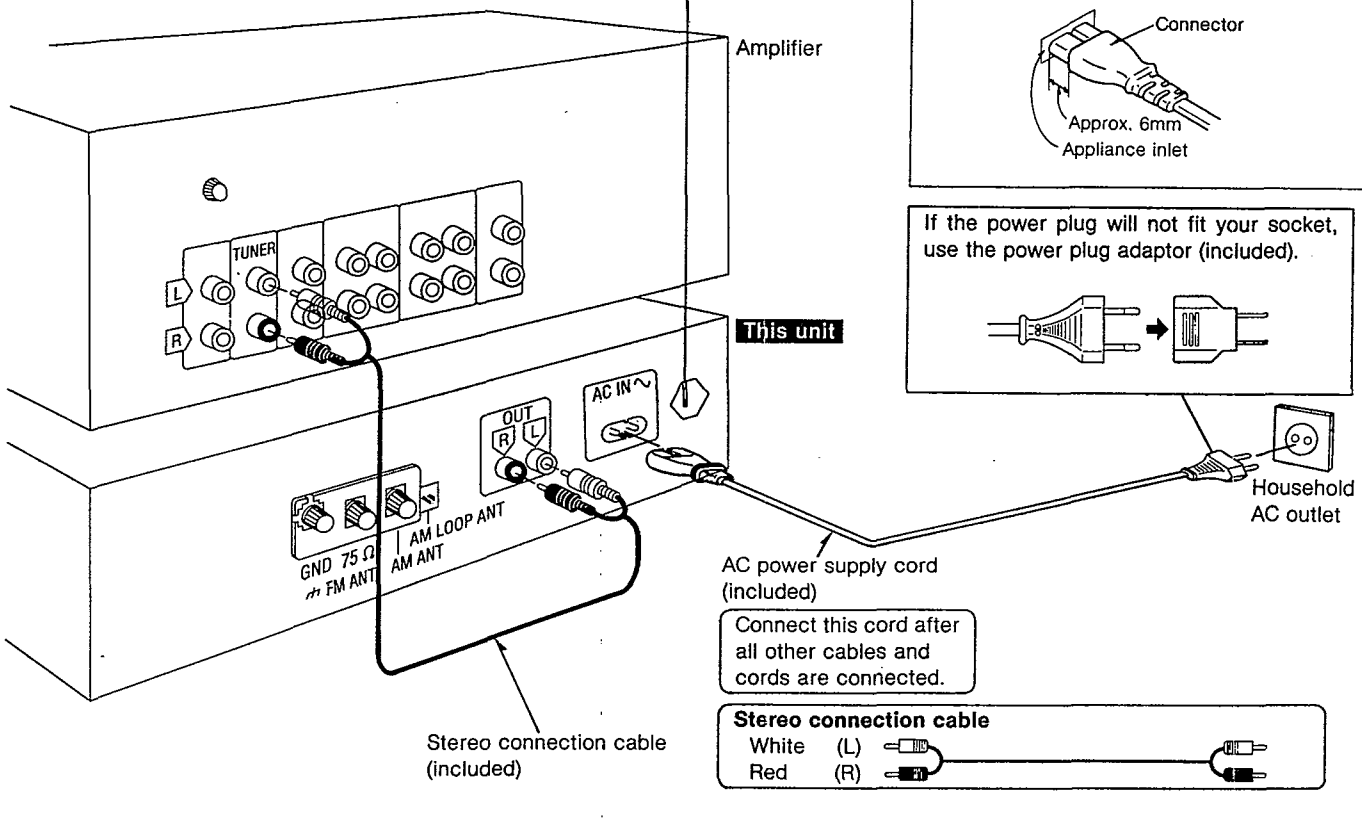
Before connection:
Set the voltage selector to the voltage setting for the area in which the unit will be used.
[Use a minus (–) screwdriver]

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

(For (EB) area only)
BE SURE TO READ THE CAUTION FOR THE AC POWRE SUPPLY CORD ON PAGE 2 BEFORE THE FOLLOWING CONNECTION.

Insertion of Connector
Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.
However there is no problem using the unit.

If the power plug will not fit your socket, use the power plug adaptor (included).



Connect this cord after all other cables and cords are connected.

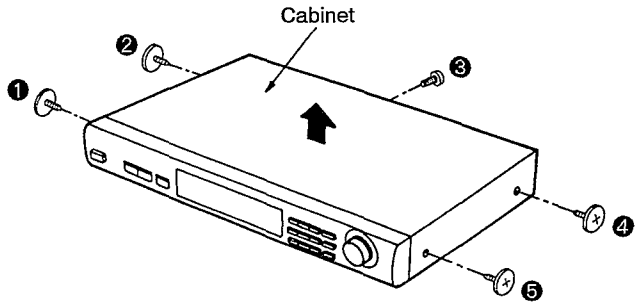
Stereo connection cable

■ DISASSEMBLY INSTRUCTIONS

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

Ref.No. 1	Removal of the cabinet

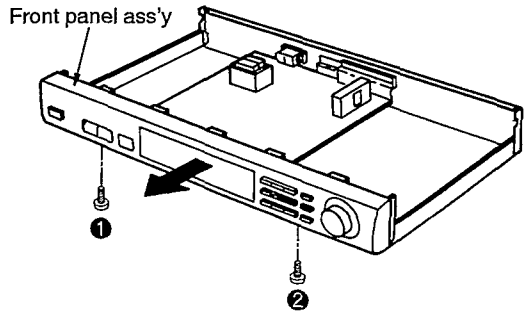
Procedure 1



1. Remove the 5 screws(❶~❺).
2. Remove the cabinet in the direction of arrow.

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

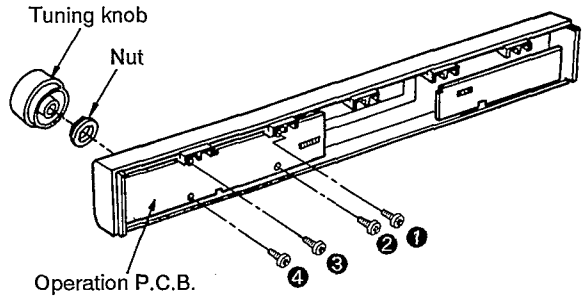
Procedure 1→2



1. Remove the 2 screws(❶, ❷).
2. Remove the front panel ass'y in the direction of arrow.

Ref.No. 3	Removal of the operation P.C.B.

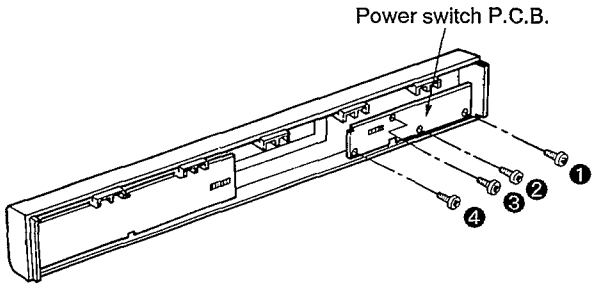
Procedure 1→2→3



1. Pull out the tuning knob.
2. Remove the nut.
3. Remove the 4 screws(❶~❹).

Ref.No. 4	Removal of the power switch P.C.B.

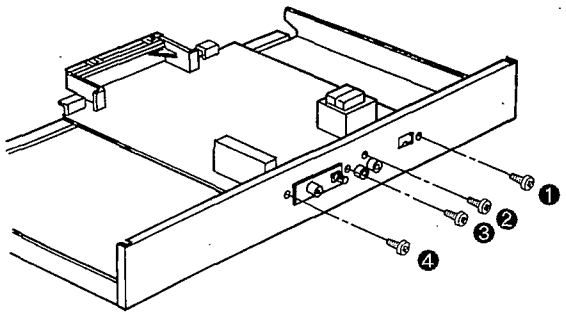
Procedure 1→2→4



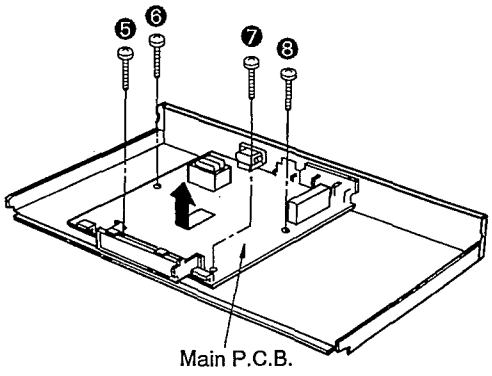
• Remove the 4 screws(❶~❹).

Ref.No. 5	Removal of the main P.C.B.

Procedure 1→2→5



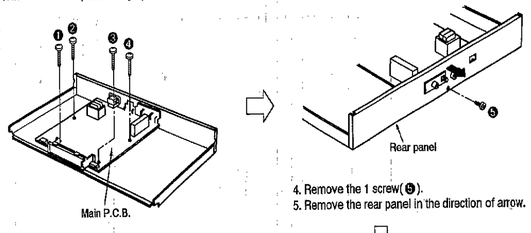
1. Remove the 4 screws(❶~❹).



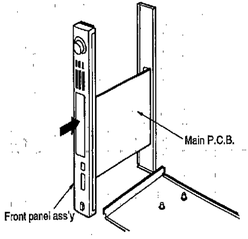
2. Remove the 4 screws(❺~❽).
3. Remove the main P.C.B. in the direction of arrow.

■ HOW TO CHECK THE MAIN P.C.B.

1. Remove the cabinet. (See Ref. No.1 of the disassembly instructions.)
2. Remove the front panel ass'y. (See Ref. No.2 of the disassembly instructions.)



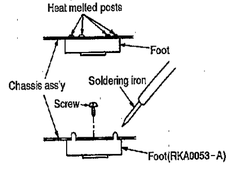
3. Remove the 4 screws(❶~❹).
4. Remove the 1 screw(❺).
5. Remove the rear panel in the direction of arrow.



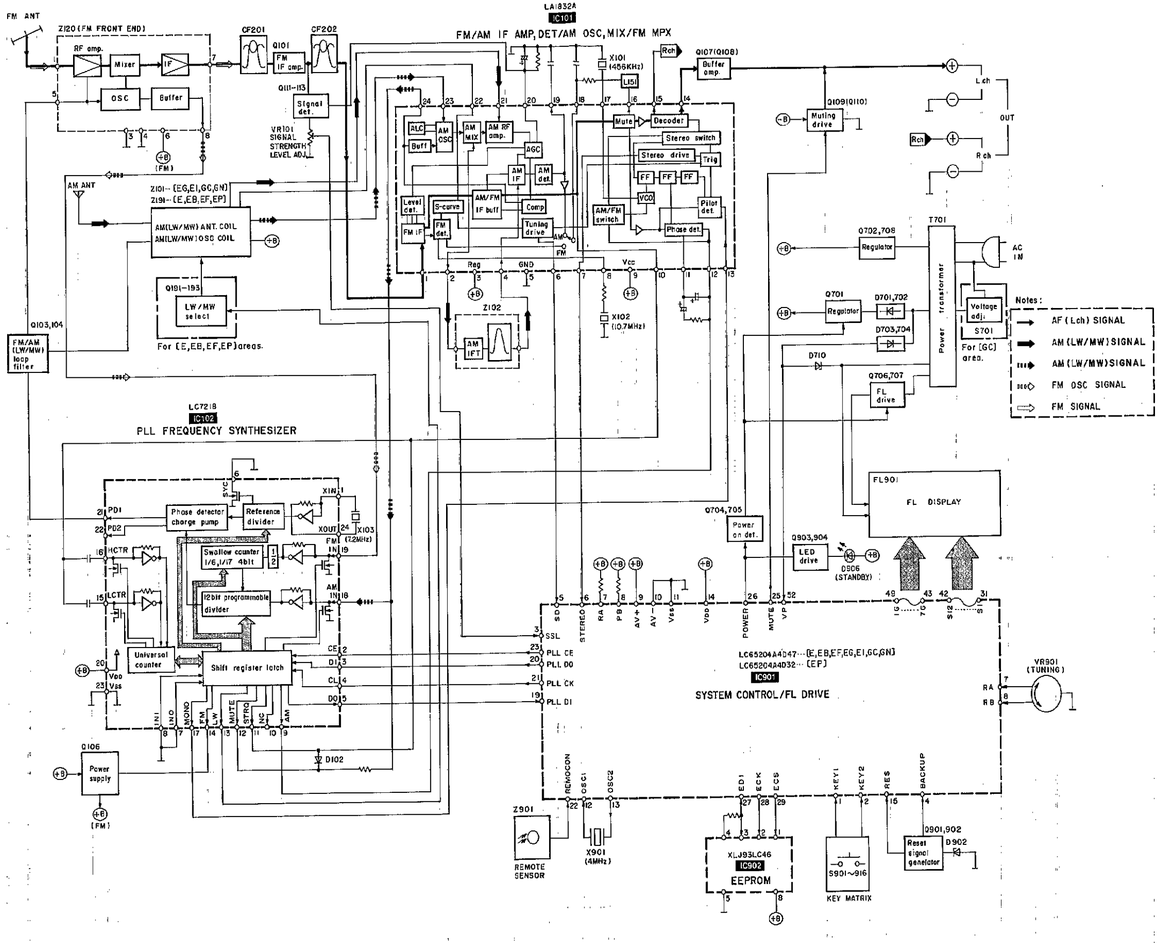
6. Reinstall the front panel ass'y to the main P.C.B.
7. When checking the soldered surface of the main P.C.B. and replacing the parts, do as shown right.

■ REPLACEMENT OF THE FOOT

1. Remove the 4 heat melted posts on the chassis ass'y with a pair of nippers or similar tool.
2. To replace the foot(RKA0053-A) on the chassis ass'y melt the 4 posts with a soldering iron or install it with a screw(XTB3+6J).



■ BLOCK DIAGRAM



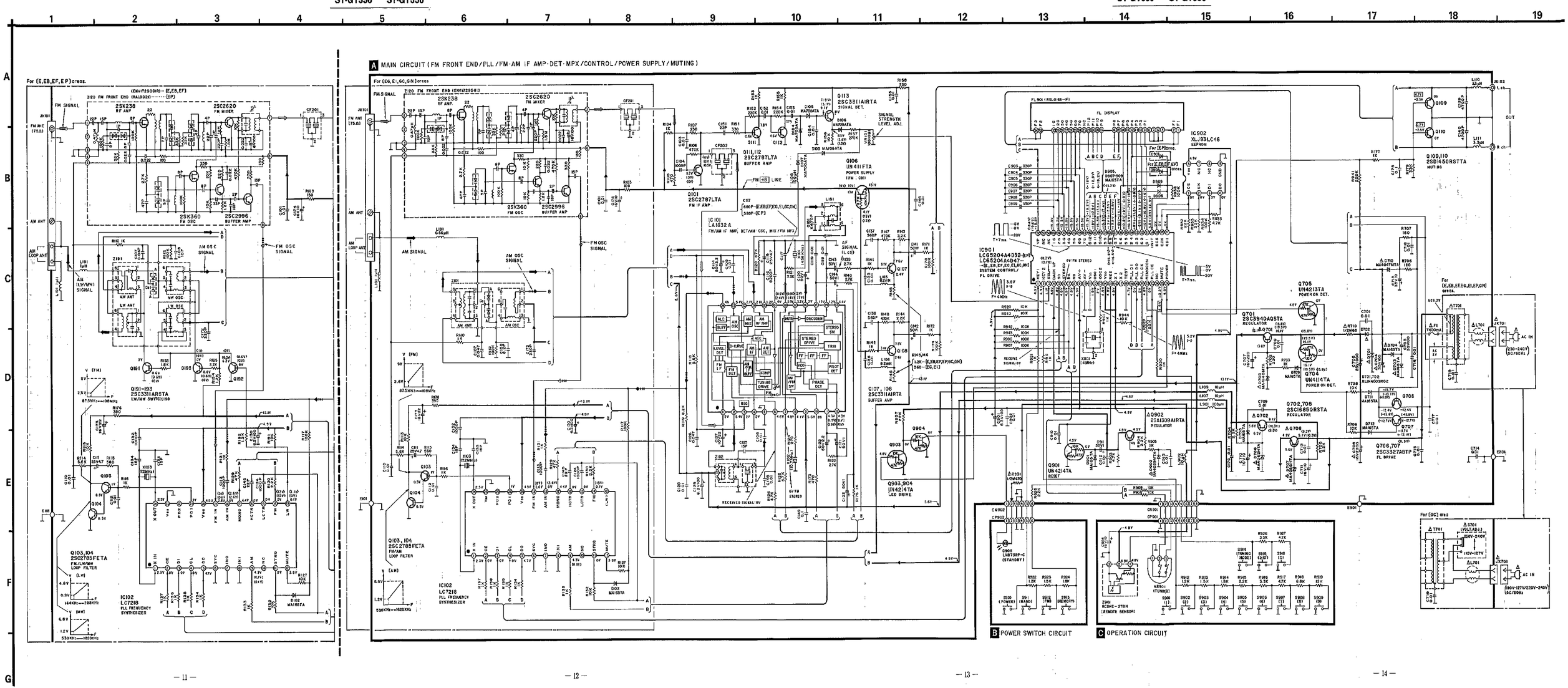
■ TERMINAL FUNCTION OF IC

• IC901 (LC65204A4D32: for (EP) area/LC65204A4D47: for others): System Control/FL Drive

Pin No.	Mark	I/O Division	Function
1	KEY 1	I	Key matrix detect terminal
2	KEY 2	I	Key matrix detect terminal
3	SSL	I	Not used, connected to resistor
4	BACKUP	I	Power Backup detect terminal
5	SD	I	Received signal detect terminal
6	STEREO	I	Stereo signal detect terminal
7	RA	I	Not used, connected to resister
8	RB	I	
9	AV+	I	Not used, connected to power supply
10	AV−	—	Not used, connected to GND
11	VSS	—	GND terminal
12	OSC1	I	Quartz oscillation terminal (f=4MHz)
13	OSC2	O	
14	VDD	I	Power supply terminal
15	RES	I	Reset signal detect terminal
16	X1	I	Quartz oscillation terminal (f=32.7MHz) Not used, connected to power supply
17	X2	O	Quartz oscillation terminal (f=32.7MHz) Not used, open
18	TEST	—	Test terminal

Pin No.	Mark	I/O Division	Function
19	PLLDI	I	Serial data input for PLL tuner
20	PLLDO	O	Serial data output for PLL tuner
21	PLLCK	O	Serial clock output for PLL tuner
22	REMOCON	I	Remote control terminal
23	PLLCE	O	Serial chip enable output for PLL tuner
24	NC	—	No connection
25	MUTE	O	Muting control signal output terminal
26	POWER	O	Power on signal output
27	EDI	I/O	Serial data for EEPROM
28	ECK	O	Serial clock output for EEPROM
29	ECS	O	Chip select output for EEPROM
30	INIT	I	Not used, connected to resistor
31 ~ 42	S1 ~ S12	O	Segment signal of FL display
43 ~ 49	7G ~ 1G	O	Digit signal of FL display
50 • 51	NC	—	No connection
52	VP	I	Negative voltage terminal

ST-GT350 ST-GT350



■ SCHEMATIC DIAGRAM (Parts list on pages 21～24.)

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

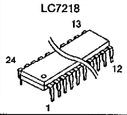
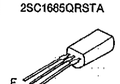
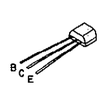
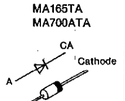
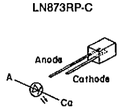
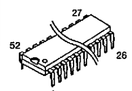
Notes:

- **S701** : Voltage adj. switch. (110V－127V ↔ 220V－240V)
- **S901～909, 915, 916** : Preset-tuning (1－0, ≥ 10) switches. [S901: 1, S902: 2, S903: 3, S904: 4, S905: 5, S906: 6, S907: 7, S908: 8, S909: 9, S915: ≥ 10, S916: 0]
- **S910** : Power "STANDBY ⏻ /ON" (POWER, STANDBY ⏻ /ON) switch.
- **S911** : Band select (BAND) switch.
- **S912** : FM mode select/FM signal-strength indication (FM) switch.
- **S913** : Memory (MEMORY) switch.
- **S914** : Tuning mode select (TUNING MODE) switch.
- Signal line
  - : AF signal (Lch)
  - : AM OSC signal
  - : AM signal
  - : Positive voltage lines
  - : Negative voltage lines
  - : FM OSC signal
  - : FM signal

- 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 as occation calls. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
- All voltage values shown in circuitry are DC voltage in FM signal (Stereo mono) 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.
- ＊Figures in □ stand for DC-voltage in muting mode.

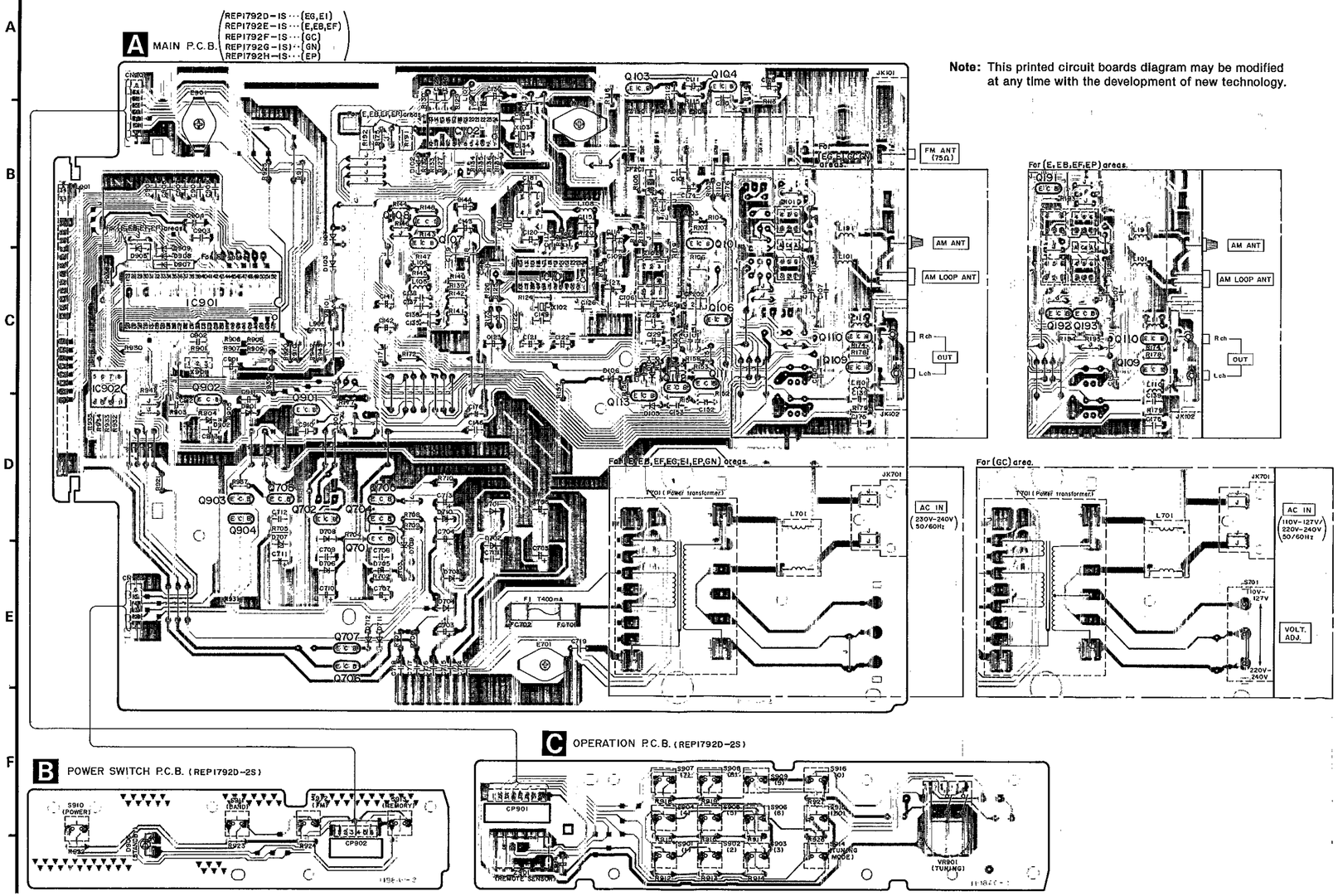
- **Caution!**
  IC and LSI are sensitive to static electricity.
  Secondary trouble can be prevented by taking care during repair.
- Cover the parts boxes made of plastics with alminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers directly.

● Terminal guide of IC's, transistors and diodes

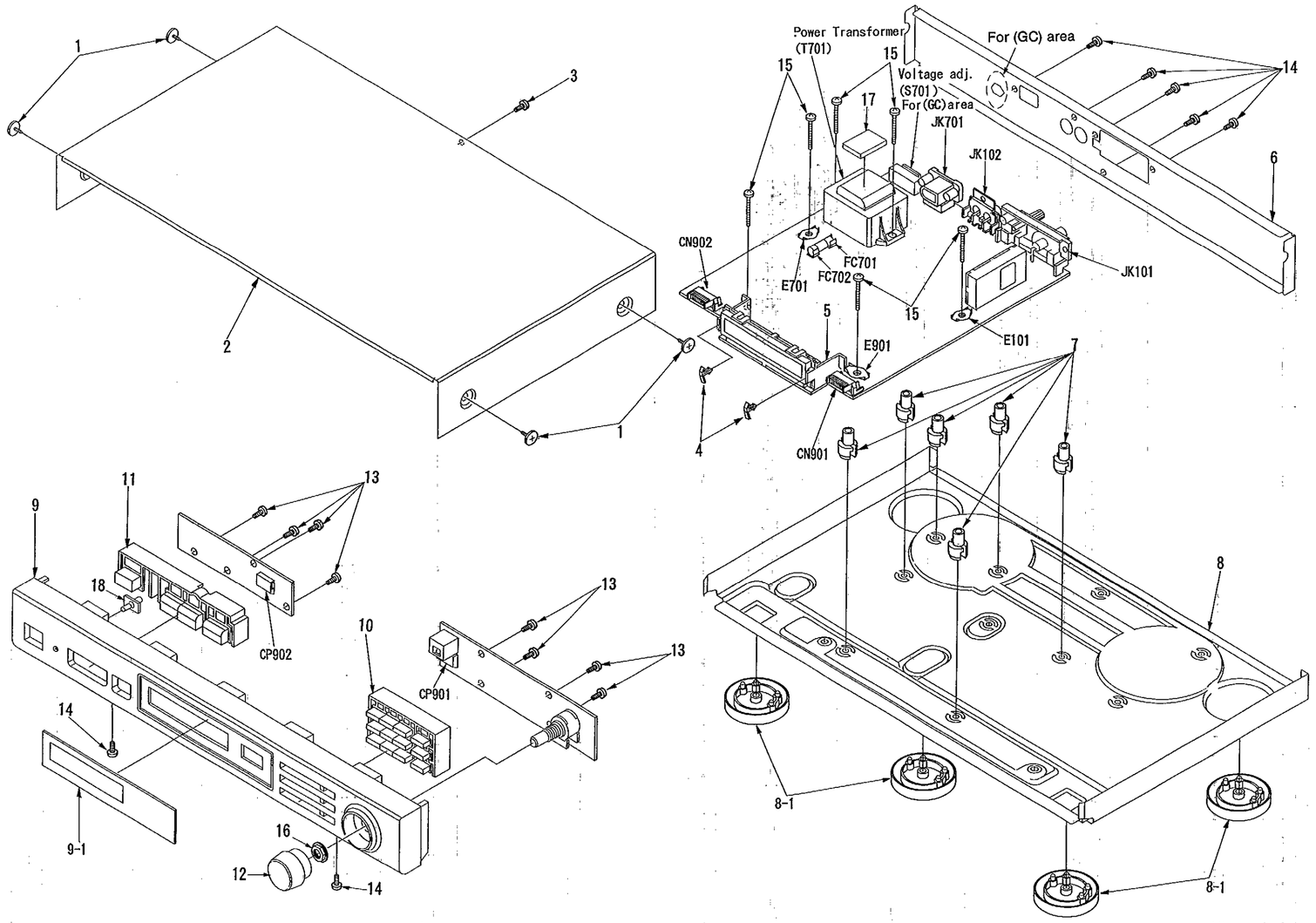
XLJ93LC46 	LA1832A LC7218 		2SA1309AIRTA 2SC2785FETA 2SC2787LTA 2SC3311AIRTA 2SC3311ARSTA (for (E, EB, EF, EP) areas) 2SD1450RSTTA	UN411FTA UN4213TA UN4214TA UN4114TA	2SC3940AQSTA 2SC1685QRSTA 
2SC3327ABTP 		MA4039MTA MA4047MTA MA4056HTA MA4062HTA	MA4140MTA 	RL1N4003N02 	MA165TA MA700ATA 
LN873RP-C 		LC65204A4D32 (for (EP) area) LC65204A4D47 (for others)			

■ PRINTED CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM

Note: This printed circuit boards diagram may be modified at any time with the development of new technology.



■CABINET PARTS LOCATION



■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.
*[F] indicates in Remarks columns parts are supplied by PFS. (Panasonic France S.A. Longwy division.)

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RHD30035-K	SCREW	
2	RMMD032-K	CABINET	
3	XTB3+8JFZ	SCREW	
4	RMND195	FL PIECE	
5	RMND251	FL HOLDER	
6	RGRD181A-B	REAR PANEL	(E, EP)
6	RGRD181A-D	REAR PANEL	(EB)
6	RFKHTGT350EF	REAR PANEL ASS'Y	[F] (EF)
6	RGRD181A-C	REAR PANEL	(EG)
6	RGRD181A-F	REAR PANEL	[F] (EI)
6	RGRD181B-B	REAR PANEL	(GC)
6	RGRD181A-D	REAR PANEL	(GN)
7	RKQD089	P. C. B. SUPPORT	
8	RFKJLPG460-K	CHASSIS ASS'Y	
8-1	RKAD053-A	FOOT	
9	RFKGTGT350E	FRONT PANEL ASS'Y	
9-1	RKWD329-K	TRANSPARENT PLATE	
10	RFKNTK55PPAK	PRESET BUTTON ASS'Y	
11	RFKNTK55PPBK	POWER/MODE BUTTON ASS'Y	
12	RGWD200-K	TUNING KNOB	
13	RHD26017	SCREW	
14	XTBS3+8JFZ1	SCREW	
15	XTB3+20JFZ	SCREW	
16	RHN90001	NUT	
17	RMGD145	TRANSFORMER RUBBER	
18	RGLD227-Q	PANEL LIGHT	
		INTEGRATED CIRCUIT(S)	
IC101	LA1832A	FM/AM IF AMP/AM OSC	
IC102	LC7218	PLL FREQ. SYNTHESIZER	
IC901	LC65204A4D47	SYSTEM CONT./FL DRIVE	(E, EB, EF, EG, EI, GC, GN)
IC901	LC65204A4D32	SYSTEM CONT./FL DRIVE	(EP)
IC902	XLJ93LC46	EEPROM	
		TRANSISTOR(S)	
Q101	2SC2787L	TRANSISTOR	
Q103, 104	2SC2785FE	TRANSISTOR	
Q106	UN411FTA	TRANSISTOR	
Q107, 108	2SC3311AIRTA	TRANSISTOR	
Q109, 110	2SD1450RTA	TRANSISTOR	
Q111, 112	2SC2787L	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q113	2SC3311AIRTA	TRANSISTOR	
Q191-193	2SC3311ARSTA	TRANSISTOR	(E, EB, EF, EP)
Q701	2SC3940AQSTA	TRANSISTOR	⚠
Q702	2SC1685QRSTA	TRANSISTOR	⚠
Q704	UN4114TA	TRANSISTOR	
Q705	UN4213	TRANSISTOR	
Q706, 707	2SC3327-A	TRANSISTOR	
Q708	2SC1685QRSTA	TRANSISTOR	⚠
Q901	UN4214TA	TRANSISTOR	
Q902	2SA1309AIRTA	TRANSISTOR	⚠
Q903, 904	UN4214TA	TRANSISTOR	
		DIODE(S)	
D102	MA165	DIODE	
D103-107	MA700	DIODE	
D701, 702	RL1N4003N02	DIODE	⚠
D703, 704	MA165	DIODE	⚠
D705	MA4140M	DIODE	⚠
D706	MA4062-H	DIODE	⚠
D707	MA4056HTA	DIODE	⚠
D708, 709	MA165	DIODE	
D710	MA4047MTA	DIODE	⚠
D711, 712	MA165	DIODE	
D901	MA165	DIODE	
D902	MA4039MTA	DIODE	⚠
D905	MA165	DIODE	(E, EB, EF, EP)
D906	LN873RP-C	L. E. D.	
D907	MA165	DIODE	(EP)
D908, 909	MA165	DIODE	
		VARIABLE RESISTOR(S)	
VR101	EVNDXAA00B15	SIGNAL STRENGTH LEVEL ADJ.	
VR901	RRVEC16B12-A	TUNING VOLUME ADJ.	
		COIL(S)	
L101	ELESN1ROMA	COIL	
L105, 106	RLQZ8822KT-D	COIL	
L107	RLQA100JT-Y	COIL	
L108	ELEXT101KA9	COIL	
L109	RLQA100JT-Y	COIL	
L110, 111	ELEXT3R3KA9	COIL	
L151	SLMIB10M-1M	COIL	
L191	ELESN1ROMA	COIL	(E, EB, EF, EP)

Ref. No.	Part No.	Part Name & Description	Remarks
L191	ELESNR56MA	COIL	(EG, EI, GC, GN)
L701	RLQZ600M-W	COIL	⚠
L901	ELEXT101KA9	COIL	
L902	RLQA100JT-Y	COIL	
		TRANSFORMER(S)	
T701	RTP1K4E027	POWER TRANSFORMER	⚠
		COMPONENT COMBINATION(S)	
Z101	RLA2Z002M-T	COMPONENT COMBINATION	(EG, EI, GC, GN)
Z102	RLI2Z006M-T	COMPONENT COMBINATION	
Z191	RLA6Z005M-T	COMPONENT COMBINATION	(E, EB, EF, EP)
Z901	RCDHC-278N	REMOTE SENSOR	
		FILTER(S)	
CF201	RLFFETNGD01L	FILTER	
CF202	RLFFETMGD01L	FILTER	
		OSCILLATOR(S)	
X101	RSXZ456KM07	OSCILLATOR(456KHz)	
X102	RLFDGTD011	OSCILLATOR(10.7MHz)	
X103	RSXC7M20S04T	OSCILLATOR(7.2MHz)	
X901	EFOEC4004T4	OSCILLATOR(4MHz)	
		DISPLAY TUBE(S)	
FL901	RSL0166-F	DISPLAY TUBE	
		FM FRONT END PACK ASS'Y(S)	
Z120	ENV17290G1R	FM FRONT END	(E, EB, EF)
Z120	ENV17290G1	FM FRONT END	(EG, EI, GC, GN)
Z120	RAL0021	FM FRONT END	(EP)
		FUSE(S)	
F1	XBA2C04TB0	FUSE, 250V T400mA	⚠
		SWITCH(ES)	
S701	ESD26700A	VOLTAGE ADJ.	(GC)⚠
S901	EVQ21405R	PRESET-TUNING(1)	
S902	EVQ21405R	PRESET-TUNING(2)	
S903	EVQ21405R	PRESET-TUNING(3)	
S904	EVQ21405R	PRESET-TUNING(4)	
S905	EVQ21405R	PRESET-TUNING(5)	
S906	EVQ21405R	PRESET-TUNING(6)	
S907	EVQ21405R	PRESET-TUNING(7)	

Ref. No.	Part No.	Part Name & Description	Remarks
S908	EVQ21405R	PRESET-TUNING(8)	
S909	EVQ21405R	PRESET-TUNING(9)	
S910	EVQ21405R	POWER	
S911	EVQ21405R	BAND	
S912	EVQ21405R	FM	
S913	EVQ21405R	MEMORY	
S914	EVQ21405R	TUNING MODE	
S915	EVQ21405R	PRESET (≥ 10)	
S916	EVQ21405R	PRESET(0)	
		CONNECTOR(S) AND SOCKET(S)	
CN901	RJU003K008M1	SOCKET(8P)	
CN902	RJU003K006M1	SOCKET(6P)	
CP901	RJT003K008-1	CONNECTOR(8P)	
CP902	RJT003K006-1	CONNECTOR(6P)	
		JACK(S)	
JK101	RJH4202M	ANT TERMINAL	
JK102	RJH3201N	LINE OUT	
JK701	SJS9236	AC INLET	(E, EB, EG, EF, EI, EP, GC)
			⚠
JK701	SJSD16	AC INLET	(GN)⚠
		GND PLATE(S)	
E101	SNE1004-2	GND PLATE	
E701	SNE1004-2	GND PLATE	
E901	SNE1004-2	GND PLATE	
		FUSE HOLDER(S)	
FC701, 702	EYF52BC	FUSE HOLDER	

■ 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)

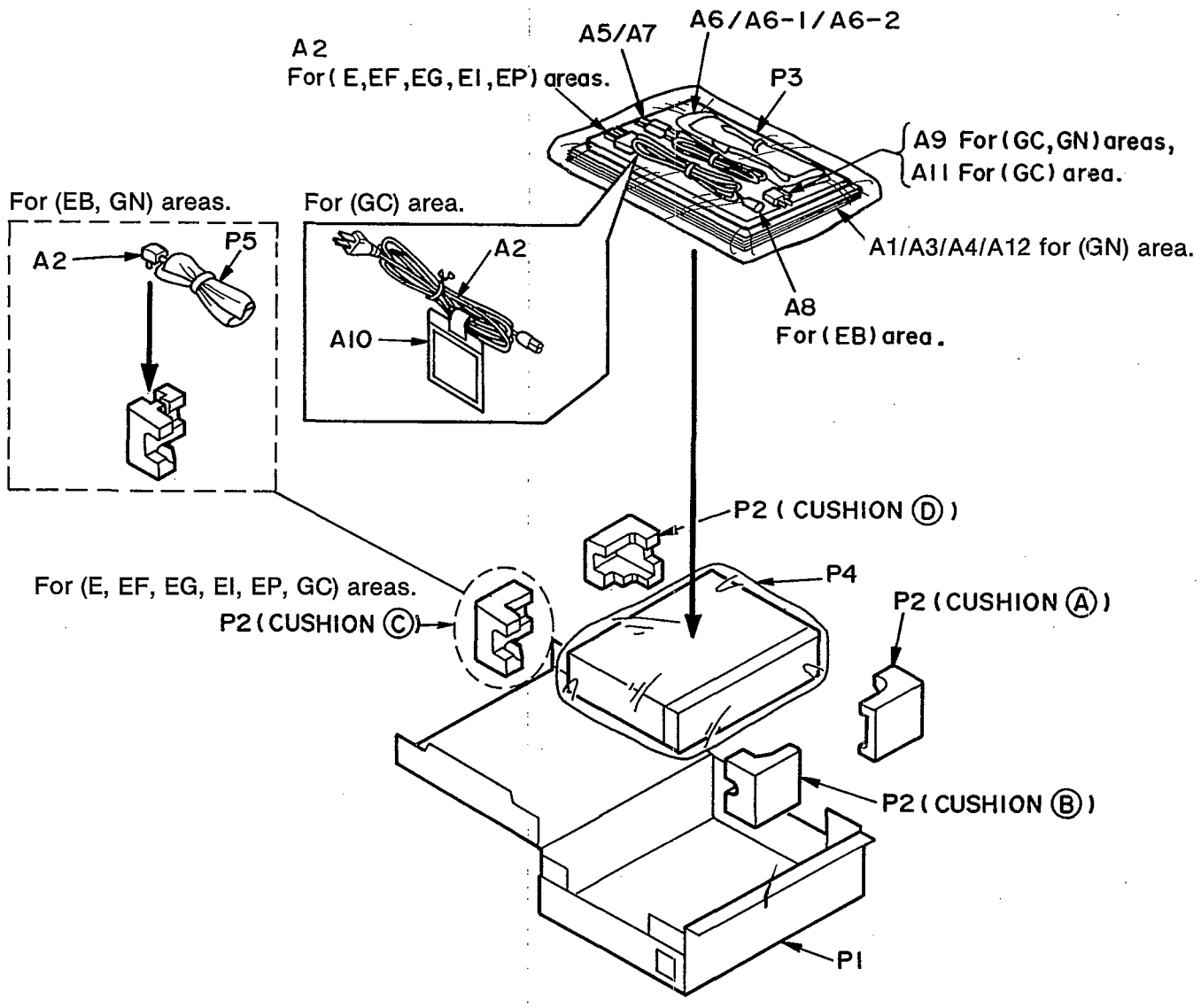
Ref. No.	Part No.	Values & Remarks
		RESISTORS
R103	ERDS2TJ101	1/4W 100
R104	ERDS2TJ102	1/4W 1K
R105	ERDS2TJ471	1/4W 470
R106	ERDS2TJ474	1/4W 470K
R107	ERDS2TJ331	1/4W 330
R110	ERDS2TJ102	1/4W 1K
R112	ERDS2TJ104	1/4W 100K
R113	ERDS2TJ103	1/4W 10K
R114	ERDS2TJ562	1/4W 5.6K
R115	ERDS2TJ561	1/4W 560
R116	ERDS2TJ102	1/4W 1K
R117	ERDS2TJ104	1/4W 100K
R118	ERDS2TJ562	1/4W 5.6K
R119	ERDS2TJ822	1/4W 8.2K
R120	ERDS2TJ473	1/4W 47K
R121	ERDS2TJ332	1/4W 3.3K
R122	ERDS2TJ272T	1/4W 2.7K
R124	ERDS2TJ271	1/4W 270
R125, 126	ERDS2TJ472	1/4W 4.7K
R127	ERDS2TJ103	1/4W 10K
R129	ERDS2TJ473	1/4W 47K
R130	ERDS2TJ222	1/4W 2.2K
R131	ERDS2TJ102	1/4W 1K
R132	ERDS2TJ103	1/4W 10K
R133-137	ERDS2TJ102	1/4W 1K
R139, 140	ERDS2TJ272T	1/4W 2.7K
R141, 142	ERDS2TJ102	1/4W 1K
R143, 144	ERDS2TJ222	1/4W 2.2K
R145, 146	ERDS2TJ122	1/4W 1.2K (E, EB, EF,
		EP, GC, GN)
R145, 146	ERDS2TJ561T	1/4W 560 (EG, EI)
R147, 148	ERDS2TJ474	1/4W 470K
R151	ERDS2TJ331	1/4W 330
R152	ERDS2TJ224T	1/4W 220K
R153	ERDS2TJ102	1/4W 1K
R154	ERDS2TJ224T	1/4W 220K
R155	ERDS2TJ102	1/4W 1K
R156	ERDS2TJ103	1/4W 10K
R157	ERDS2TJ274	1/4W 270K
R158	ERDS2TJ331	1/4W 330
R171, 172	ERDS2TJ102	1/4W 1K
R173	ERDS2TJ471	1/4W 470
R174	ERDS2TJ104	1/4W 100K
R175	ERDS2TJ102	1/4W 1K
R176	ERDS2TJ391	1/4W 390
R177	ERDS2TJ102	1/4W 1K
R178	ERDS2TJ104	1/4W 100K
R179	ERDS2TJ333	1/4W 33K
R191	ERDS2TJ103	1/4W 10K (E, EB, EF,
		EP)
R192	ERDS2TJ122	1/4W 1.2K (E, EB, EF,
		EP)
R193	ERDS2TJ182	1/4W 1.8K (E, EB, EF,
		EP)
R194	ERDS2TJ122	1/4W 1.2K (E, EB, EF,
		EP)
R195	ERDS2TJ222	1/4W 2.2K (E, EB, EF,
		EP)
R702	ERDS2TJ221	1/4W 220
R703	ERDS2TJ102	1/4W 1K
R704, 705	ERDS2TJ222	1/4W 2.2K
R706, 707	ERDS2TJ181T	1/4W 180
R708, 709	ERDS2TJ103	1/4W 10K
R710	ERDS1FVJ680T	1/2W 68 ⚠
R901	ERDS2TJ102	1/4W 1K
R903	ERDS2TJ472	1/4W 4.7K
R904	ERDS2TJ222	1/4W 2.2K
R905	ERDS2TJ102	1/4W 1K
R906, 907	ERDS2TJ104	1/4W 100K
R908-910	ERDS2TJ103	1/4W 10K
R911	ERDS2TJ102	1/4W 1K
R912	ERDS2TJ122	1/4W 1.2K
R913	ERDS2TJ152	1/4W 1.5K
R914	ERDS2TJ182	1/4W 1.8K
R915	ERDS2TJ222	1/4W 2.2K
R916	ERDS2TJ332	1/4W 3.3K
R917	ERDS2TJ472	1/4W 4.7K
R918	ERDS2TJ682T	1/4W 6.8K
R919	ERDS2TJ123	1/4W 12K
R920	ERDS2TJ103	1/4W 10K
R921	ERDS2TJ102	1/4W 1K
R922	ERDS2TJ122	1/4W 1.2K
R923	ERDS2TJ152	1/4W 1.5K
R924	ERDS2TJ182	1/4W 1.8K
R925	ERDS2TJ222	1/4W 2.2K
R926	ERDS2TJ332	1/4W 3.3K
R927	ERDS2TJ472	1/4W 4.7K
R930	ERDS2TJ102	1/4W 1K
R931	ERDS1FVJ471T	1/2W 470 ⚠
R932, 933	ERDS2TJ223	1/4W 22K
R934	ERDS2TJ104	1/4W 100K
R935	ERDS2TJ472	1/4W 4.7K
R936	ERDS2TJ104	1/4W 100K
R937	ERDS2TJ223	1/4W 22K
R939	ERDS2TJ223	1/4W 22K
R941	ERDS2TJ224T	1/4W 220K
R942, 943	ERDS2TJ104	1/4W 100K
R944	ERDS2TJ103	1/4W 10K
		CAPACITORS
C101	ECBT1C103NS5	16V 0.01U
C103	ECBT1C103NS5	16V 0.01U
C104	ECBT1H102KB5	50V 1000P
C106	ECBT1C103NS5	16V 0.01U
C107	ECFR1E473KR	25V 0.047U
C108	ECBT1H100JC5	50V 10P (E, EB, EF,
		EP)
C108	ECBT1H8R2KC5	50V 8.2P (EG, EI, GC
		, GN)
C109, 110	ECBT1C103NS5	16V 0.01U
C111	ECEA1EKA4R7B	25V 4.7U
C112	ECBT1C103NS5	16V 0.01U
C113	ECBT1H102KB5	50V 1000P
C114	ECEA1HKA3R3B	50V 3.3U
C115	ECEA1EKA4R7B	25V 4.7U
C116	ECBT1C822MS5	16V 8200P
C117	ECQP2A681JZT	200V 680P (E, EB, EF,
		EG, EI, GC,
		GN)
C117	ECQP2A561JZT	200V 560P (EP)
C118, 119	ECQB1H103JF3	50V 0.01U
C120, 121	ECEA1HKA010B	50V 1U
C122	ECEA1HKA2R2B	50V 2.2U
C123	ECEA1HKA010B	50V 1U
C124	ECBT1H102KB5	50V 1000P
C125	ECBT1H150JC5	50V 15P
C126	ECFR1E473KR	25V 0.047U
C127	ECEA1AKA220B	10V 22U
C128	ECBT1C103NS5	16V 0.01U
C129, 130	ECEA0JKA101B	6.3V 100U
C132	ECBT1H102KB5	50V 1000P
C133	ECBT1H150JC5	50V 15P
C134	ECBT1H180JC5	50V 18P
C135, 136	ECBT1C103KS5	16V 0.01U
C137, 138	ECBT1H561KB5	50V 560P
C139, 140	ECQB1H472JF3	50V 4700P
C141-144	ECEA1HKA010B	50V 1U
C145	ECBT1H220J5	50V 22P
C146	ECKR1H103ZF5	50V 0.01U
C148	ECBT1C103NS5	16V 0.01U
C149	ECFR1E104ZF5	25V 0.1U
C151	ECBT1H220J5	50V 22P
C152-155	ECBT1C103KS5	16V 0.01U

Ref. No.	Part No.	Values & Remarks
C172	ECBT1H331KB5	50V 330P
C173	ECEA1CKA220B	16V 22U
C174	ECEA1CKA100B	16V 10U
C175	ECFR1E104ZF5	25V 0.1U
C176	ECKR1H103ZF5	50V 0.01U
C181	ECBT1H471KB5	50V 470P
C701	ECKR1H103ZF5	50V 0.01U
C703	ECA1VM101B	35V 100U
C704	ECA1VM101B	35V 100U ⚠

Ref. No.	Part No.	Values & Remarks
C705	ECA1EM102B	25V 1000U
C706	ECA1CM222B	16V 2200U ⚠
C707	ECA1CM221B	16V 220U
C708, 709	ECKR1H103ZF5	50V 0.01U
C710, 711	ECEA1CKA100B	16V 10U
C712	ECKR1H103ZF5	50V 0.01U
C713	ECEA1VKA100B	35V 10U
C714-718	ECKR1H103ZF5	50V 0.01U
C719	ECBT1C103NS5	16V 0.01U

Ref. No.	Part No.	Values & Remarks
C901	ECEA0JKA101B	6.3V 100U
C902	ECKR1H103ZF5	50V 0.01U
C903-909	ECKR1H331KB5	50V 330P
C910	ECKR1H103ZF5	50V 0.01U
C911	ECEA1HKA010B	50V 1U
C912, 913	ECKR1H103ZF5	50V 0.01U
C914	ECEA1CKA100B	16V 10U

■ PACKAGING



CUSHION Ⓐ Ⓑ Ⓒ Ⓓ : RPN0811 For(E,EG,GC,EP) areas.
: RPN0769-1 For(EB,GN) areas, RPN0325 For(EF,EI) areas.

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■ REPLACEMENT PARTS LIST

Notes: *Important safety notice:
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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.
*The "SF" mark denotes the standrad part.
*[F] Indicates in Remarks columns parts are supplied by PFS. (Panasonic France S.A. Longwy division.)

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIAL	
P1	RPG1982	PACKING CASE	(E, EG, GC, EP)
P1	RPG1983	PACKING CASE	(EB)
P1	RPG1985	PACKING CASE	[F] (EF)
P1	RPG1986	PACKING CASE	[F] (EI)
P1	RPG1984	PACKING CASE	(GN)
P2	RPNO811	CUSHION	(E, EG, GC, EP)
P2	RPNO767-1	CUSHION	(EB, GN)
P2	RPNO325	CUSHION	(EF, EI)
P3	RPQ0164	PAD	
P4	XZB52X60A01Z	PROTECTION BAG (UNIT)	
P5	RPHO032	PROTECTION SHEET	(EB, GN)
		ACCESSORIES	
A1	RFKSTGT350E	INSTRUCTION MANUAL ASS'Y	(E)
A1	RQT2345-B	INSTRUCTION MANUAL	(EB)
A1	RFKSTGT350EF	INSTRUCTION MANUAL ASS'Y	(EF)
A1	RQT2348-D	INSTRUCTION MANUAL	(EG)

Ref. No.	Part No.	Part Name & Description	Remarks
A1	RQT2349-V	INSTRUCTION MANUAL	[F] (EI)
A1	RQF2221	INSTRUCTION MANUAL ASS'Y	(EP)
A1	RFKSTGT350GC	INSTRUCTION MANUAL ASS'Y	(GC)
A1	RQT2350-L	INSTRUCTION MANUAL	(GN)
A2	RJA0019-2K	AC POWER SUPPLY CORD	(E, EF, EG, EI, GC, EP)
			⚠ (SF)
A2	VJA0733	AC POWER SUPPLY CORD	(EB) ⚠ (SF)
A2	RJA0036-K	AC POWER SUPPLY CORD	(GN) ⚠ (SF)
A3	RQA0013	WARRANTY CARD	(E, EB, EF, EG, EI)
A3	RQX7433ZA	WARRANTY CARD	(GN)
A4	RQCB0169	SERVICENTER LIST	(E, EB, EF, EG, EI, GC, GN)
A5	RSA0007	FM INDOOR ANT	
A6	RSA0010	AM LOOP ANTENNA SET	
A6-1	RMNO244	AM ANTENNA HOLDER	
A6-2	XTN3+10AFZ	SCREW	
A7	SJP2276	STEREO CONNECTION CABLE	
A8	SJP9009	ATTACHMENT PLUG	(EB)
A9	RFE0014	ANTENNA PLUG	(GC, GN)
A10	RQLA0134	VOLTAGE CAUTION LABEL	(GC)
A11	SJP5213-1	POWER PLUG ADAPTOR	(GC) ⚠
A12	SQX40022	AM STEREO CAUTION LABEL	(GN)

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