

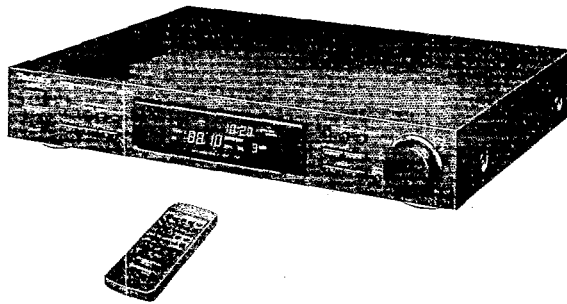
Service Manual

STEREO SYNTHESIZER TUNER

Tuner
ST-X302L

Color

(K) Black Type



SPECIFICATIONS (DIN 45 500)

FM TUNER SECTION

Frequency range	87.50~108.00 MHz (0.05 MHz steps)
Sensitivity	1.5 μ V (IHF, usable)
S/N 30 dB	1.3 μ V (75 Ω)
S/N 26 dB	1.2 μ V (75 Ω)
S/N 20 dB	0.9 μ V (75 Ω)
IHF 46 dB stereo quieting sensitivity	28 μ V/75 Ω
Total harmonic distortion	
MONO	0.15%
STEREO	0.3%
S/N	
MONO	70 dB (78 dB, IHF)
STEREO	65 dB (70 dB, IHF)
Frequency response	20 Hz~15 kHz, +0.5 dB~-1.5 dB
Alternate channel selectivity	
± 400 kHz	55 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
10 kHz	30 dB
Carrier leak	
19 kHz	-30 dB (-35 dB, IHF)
38 kHz	-45 dB (-50 dB, IHF)
Channel balance (250 Hz~6,300 Hz)	± 1.5 dB
Limiting point	1.2 μ V
Bandwidth	
IF amplifier	180 kHz
FM demodulator	1000 kHz
Antenna terminals	75 Ω (unbalanced)

AM TUNER SECTION

Frequency range	
MW	
For Continental Europe, Great Britain and Oceania	522 kHz~1611 kHz (9 kHz steps) 530 kHz~1620 kHz (10 kHz steps)
For others	531 kHz~1602 kHz (9 kHz steps) 530 kHz~1600 kHz (10 kHz steps)

Areas

Country Code	Area	Color
(E)	Continental Europe	(K)
(EB)	Great Britain	
(GC)	Asia, Latin America, Middle Near East and Africa	
(GN)	Oceania	

LW

For Continental Europe, Great Britain and Oceania	144 kHz~288 kHz (9 kHz steps) 146 kHz~290 kHz (9 kHz steps)
For others	153 kHz~279 kHz (9 kHz steps) 155 kHz~281 kHz (9 kHz steps)

Sensitivity (S/N 20 dB)

MW	20 μ V, 300 μ V/m
LW	50 μ V
Selectivity (± 9 kHz)	
MW (at 999 kHz)	50 dB
LW (at 254 kHz)	50 dB
Image rejection	
MW (at 999 kHz)	40 dB
LW (at 254 kHz)	40 dB
IF rejection	
MW (at 999 kHz)	60 dB
LW (at 254 kHz)	60 dB

TIMER SECTION

Clock	Quartz-lock type 24-hour indication
Functions	24-hour programmable; weekly (1 setting) once only (1 setting) sleep (at 1~120 min., 1-min. intervals)

Programmable content

Program source (FM, MW, LW, CD, TAPE)	
Timer rec/timer play/power ON/OFF setting	
Designation of preset station	
Setting intervals	1 minute~23-hours, 59 minutes (at 1-min. intervals)
Priority order	sleep, once, weekly

GENERAL

Output voltage	0.3 V (0.6 V IHF)
Power consumption	9 W (Standby 6 W)
Power supply	
For Continental Europe	AC 50 Hz/60 Hz, 220 V
For Great Britain and Oceania	AC 50 Hz/60 Hz, 240 V
For others	AC 50 Hz/60 Hz, 110 V/127 V/220 V/240 V
Dimensions (W×H×D)	360×64.5×304 mm (14 ³ / ₁₆ "×2 ¹⁷ / ₃₂ "×12")
Weight	2.3 kg (5 lb.)

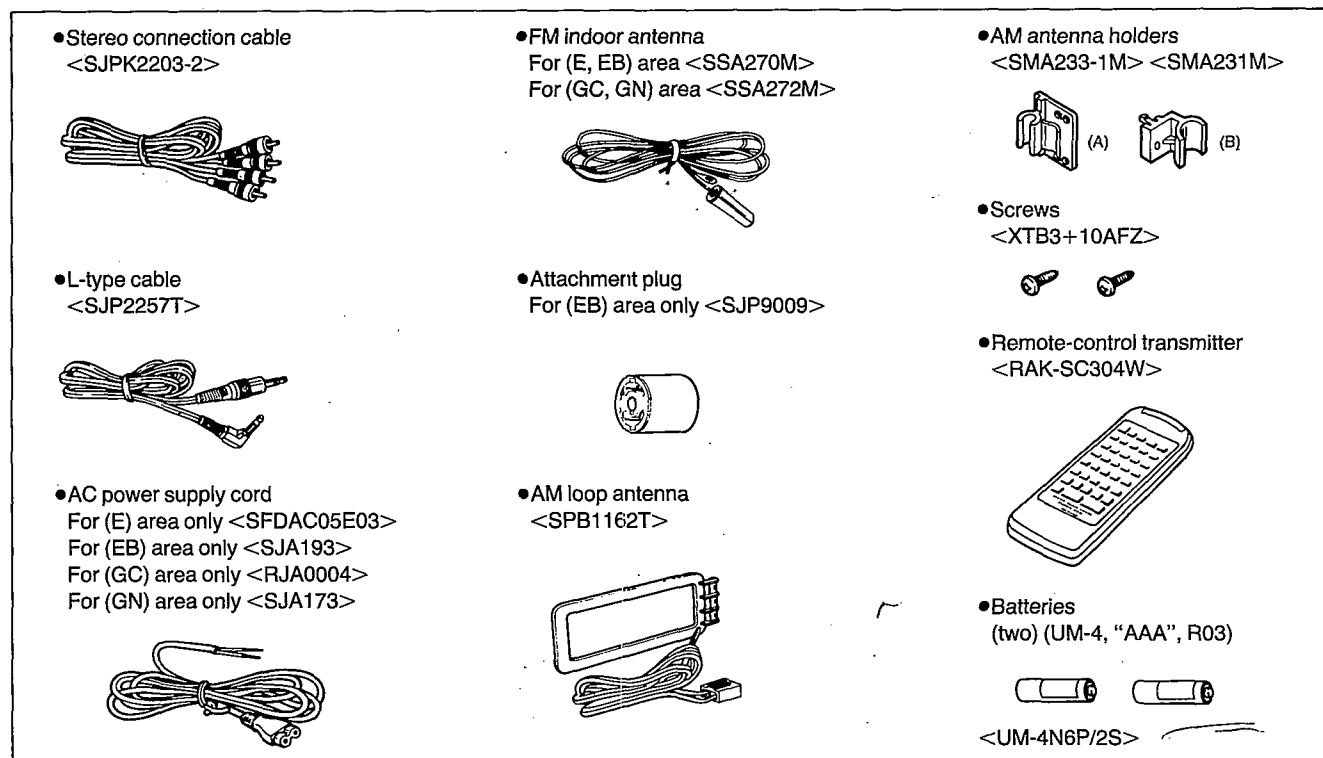
Note: Specifications are subject to change without notice. Weight and dimensions are approximate.

Technics

CONTENTS

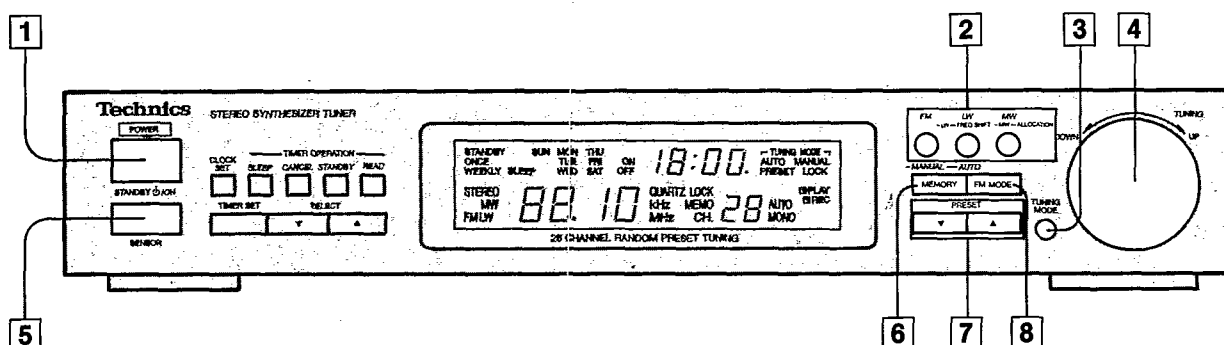
	Page		Page
ACCESSORIES	2	TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES	15
LOCATION OF CONTROLS	2, 3	DESCRIPTION OF FL PANEL	15
CONNECTIONS	4	BLOCK DIAGRAM	16, 17
DISASSEMBLY INSTRUCTIONS	5, 6	FUNCTIONS OF IC TERMINALS	18
MEASUREMENTS AND ADJUSTMENTS	7, 8	REPLACEMENT PARTS LIST	19~23
SCHEMATIC DIAGRAM	9~12	CABINET PARTS LOCATION	24
CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM	13~15	PACKING	25

ACCESSORIES

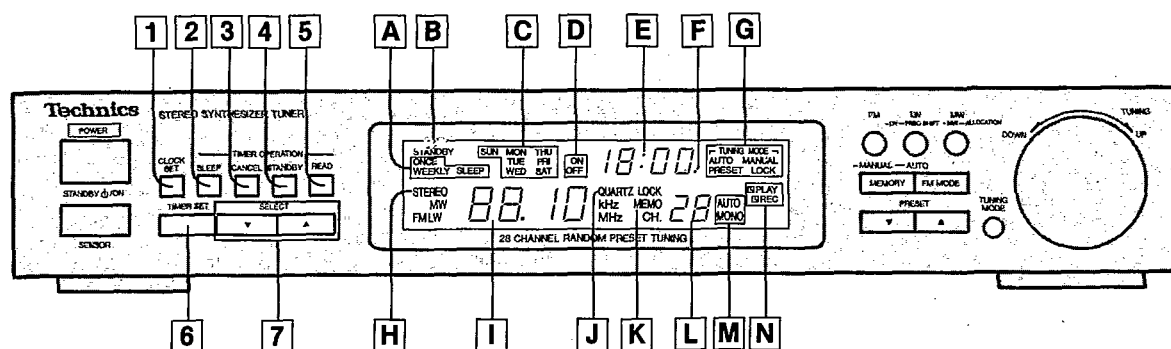


LOCATION OF CONTROLS

The indication AM used here includes both MW and LW.



- | | |
|--|---|
| <p>1 Power "STANDBY /ON" switch (POWER/STANDBY /ON)</p> <p>2 Band selectors</p> <p>3 Tuning-mode selector (TUNING MODE)</p> <p>4 Tuning control (TUNING)</p> | <p>5 Remote-control signal receptor (SENSOR)</p> <p>6 Memory button (MEMORY)</p> <p>7 Preset-channel buttons (PRESET)</p> <p>8 FM mode selector (FM MODE)</p> |
|--|---|



Timer section

1 Clock set button (CLOCK SET)

This button can be used, when setting the unit to the present day and time, to select the item (day, hour and minute) to be set next.

2 Sleep button (SLEEP)

This button can be used to set the time at which the power will be switched OFF.

3 Cancel button (CANCEL)

This button can be used to erase the timer setting or to cancel a setting that is being made, if, for example, you decide to do something else.

4 Stand-by button (STANDBY)

This button can be used to temporarily cancel the timer setting.

5 Read button (READ)

This button can be used to check the programmed setting.

6 Timer set button (TIMER SET)

This button can be used, when making the timer setting, to select the type of timer operation, the day, the time, etc.

7 Select buttons (SELECT)

These buttons can be used to set the unit to the present day and time, and for setting the day, time, etc. for timer operation.

Display section

A Timer-mode indicator (ONCE/WEEKLY/SLEEP)

This indicator shows the type of timer operation that has been selected.

B Stand-by indicator (STANDBY)

This indicator shows that the timer has been set to operate at the programmed time.

C Day display

This display shows the present day, and (if the timer has been set) the day it has been set for.

D Timer ON/OFF indicator (ON/OFF)

This indicator shows whether the times for timer switch-ON and switch-OFF have been set.

E Time display

This display shows the present time, and (if the timer has been set) the time it has been set for.

F Colon indicator

This indicator shows, by flashing continuously, that the clock is operating.

G Tuning-mode indicator (AUTO/MANUAL/PRESET/LOCK)

The words "AUTO", "MANUAL", "PRESET" and "LOCK" illuminate in succession each time the tuning-mode selector is pressed.

H FM stereo indicator (STEREO)

This indicator automatically illuminates when an FM stereo broadcast is being received. It will not illuminate if the FM mode selector is set to the monaural mode.

I Digital frequency display

For timer operation, "CD" and "TAPE" are displayed.

J Quartz-lock indicator (QUARTZ LOCK)

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

K Memory indicator (MEMO)

This indicator illuminates when the memory button is pressed.

L Channel display

This display shows the channel number selected by one of the preset-channel buttons.

M FM mode indicator (AUTO/MONO)

When FM broadcasts are being received, usually the "AUTO" indication is illuminated. When the FM mode selector is used to select monaural reception, the word "MONO" illuminates.

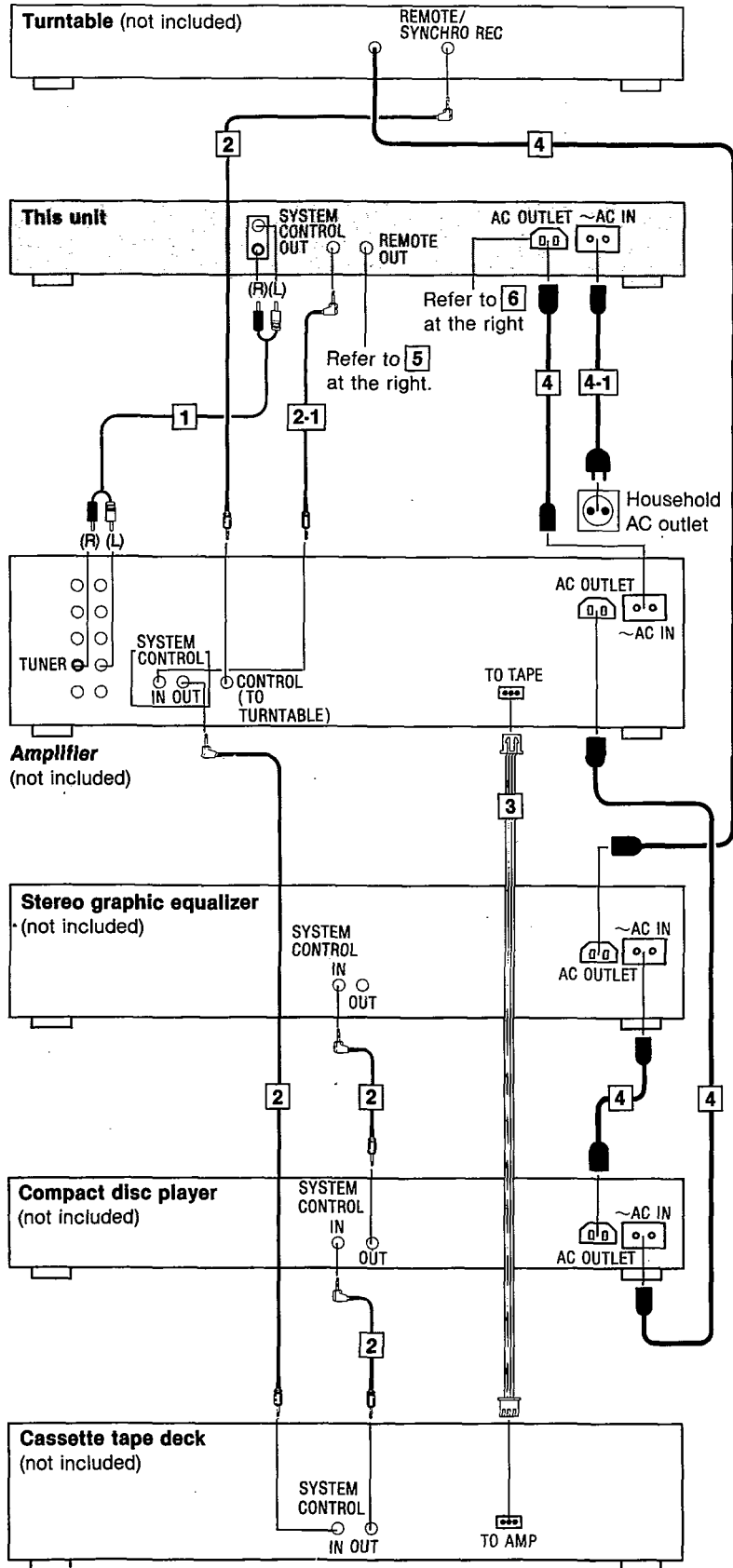
N Timer play/rec indicator (PLAY/REC)

■ CONNECTIONS

Make connections in the numbered sequence by using the included cables and power cord.

Stereo connection cable

White (L) —
Red (R) —



Make connections as described below for remote-control operation and timer operation. For information concerning the stereo connection cables of each unit, refer to that unit.

1 Connect the stereo connection cable (included).

2 Connect the L-type cables.

2-1 Connect the L-type cable (included).

If the compact disc player is not used in combination with these components, connect the L-type cable included with the stereo graphic equalizer to the "SYSTEM CONTROL OUT" terminal of the cassette deck.

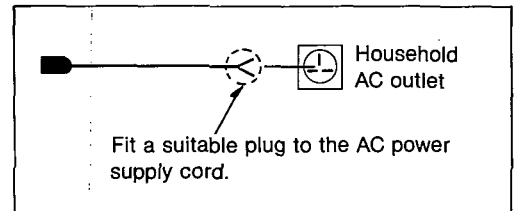
3 Connect the 3-core flat cable (included with the cassette deck).

4 Connect the AC power supply cords.

4-1 Connect the AC power supply cord (included).

① Connect this cord only after all other cables have been connected.

② For United Kingdom



Notes:

- Configuration of the AC outlets and AC power supply cords differ according to area.
- If the compact disc player is not used in combination with these components, connect the AC power-supply cord of the stereo graphic equalizer to the AC outlet of the amplifier.

5 "REMOTE OUT" terminal

This terminal is used to connect to the "REMOTE IN" terminal of the Technics multi-compact disc player (not included).

6 "AC OUTLET" "SWITCHED" outlet

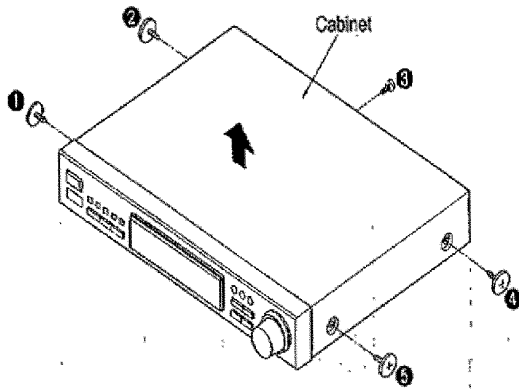
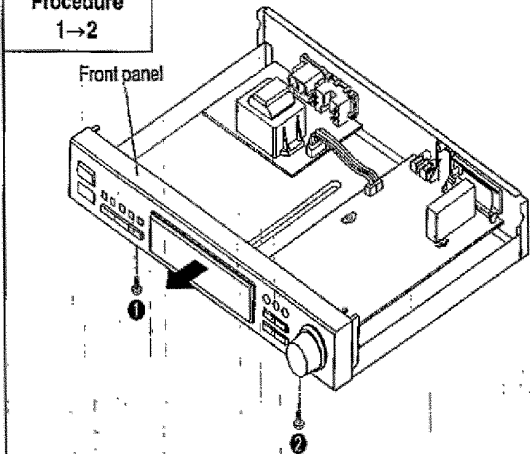
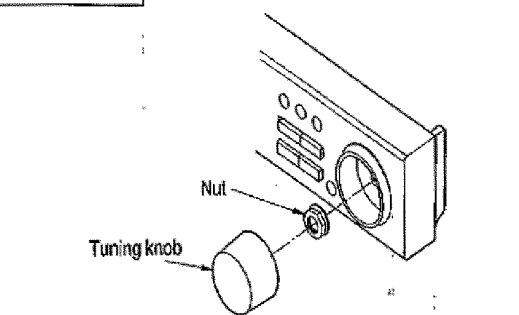
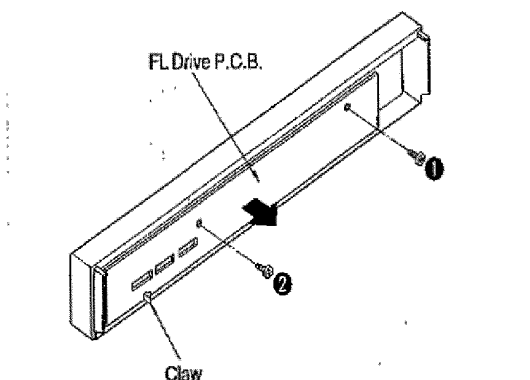
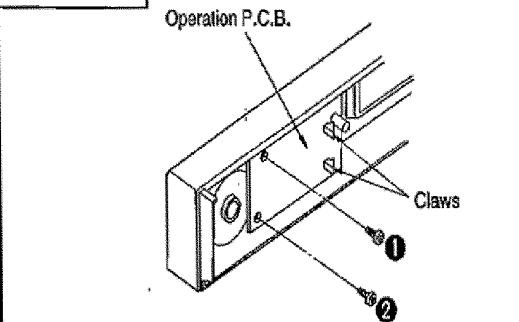
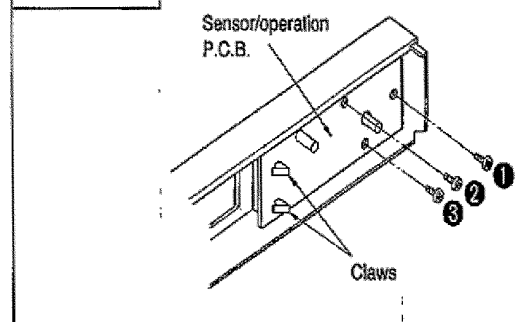
Power is controlled by the power switch.

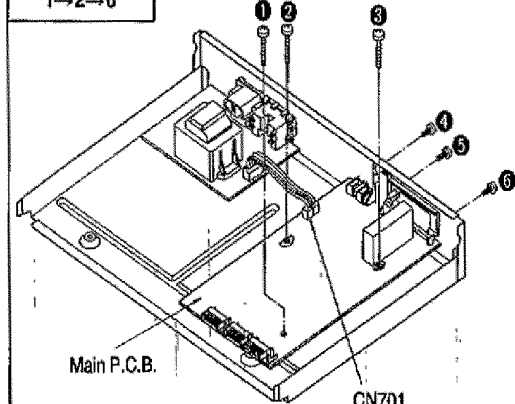
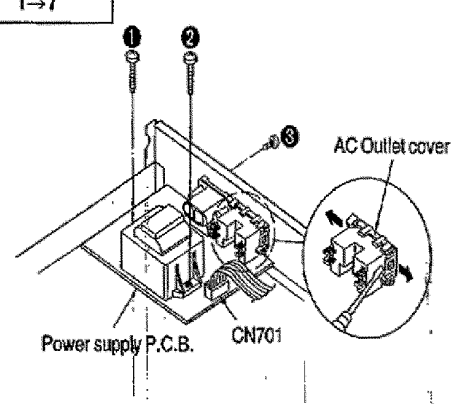
Audio equipment rated up to 500 W can be connected here.

Note:

If other audio equipments are to be connected to this outlet, make sure that the total power consumption does not exceed the rating of the outlet.

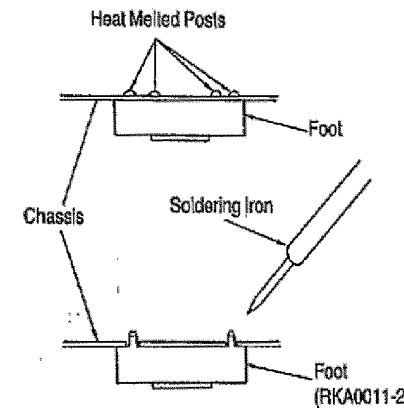
DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER" Some chassis components may have sharp edges. Be careful when disassembling and servicing.			
Ref. No. 1	Removal of the cabinet	Ref. No. 2	Removal of the front panel
Procedure 1	 •Remove the 5 screws (1-5).	Procedure 1→2  1. Remove the 2 screws (1, 2). 2. Remove the front panel in the direction of arrow.	
Ref. No. 3	Removal of the FL drive P.C.B.		
Procedure 1→2→3	 1. Pull out the tuning knob. 2. Remove the nut.	 3. Remove the 2 screws (1, 2). 4. Release the 1 claw.	
Ref. No. 4	Removal of the operation P.C.B.	Ref. No. 5	Removal of the sensor/operation P.C.B.
Procedure 1→2→3→4	 1. Remove the 2 screws (1, 2). 2. Release the 2 claws.	Procedure 1→2→3→5  1. Remove the 3 screws (1-3). 2. Release the 2 claws.	

Ref. No. 6	Removal of the main P.C.B.	Ref. No. 7	Removal of the power supply P.C.B.
Procedure 1→2→6	 Main P.C.B. CN701 1. Remove the flat cable (CN701). 2. Remove the 6 screws (1~6).	Procedure 1→7	 Power supply P.C.B. CN701 AC Outlet cover 1. Remove the flat cable (CN701). 2. Remove the 3 screws (1~3). 3. Remove the 2 claws of AC outlet cover.

Replacement of the Foot.

1. Remove the 4 heat melted posts on the chassis with a pair of nippers or similar tool.
2. To replace the foot (RKA0011-2) on the chassis, melt the 4 posts with a soldering iron.



MEASUREMENTS AND ADJUSTMENTS

FM ADJUSTMENT

Control positions and equipment used

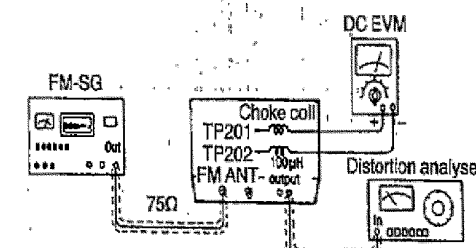
- FM signal generator (FM-SG)
- Distortion analyser
- DC electronic voltmeter (EVM)
- Frequency counter
- Choke coil (100 μ H)
- Resistor (100 k Ω)

Note: For Z251 (AM-ANT/OSC) and Z202 (AM-IFT), they are supplied as adjusted parts. So, do not turn the cores of the parts. It is not necessary to adjust the AM circuit.

FM MONO DISTORTION ADJUSTMENT

1. Test equipment connection is shown in figure.
 2. Set the unit to "FM" mode.
 3. Set the radio frequency display and signal generator to 100.10 MHz.
 4. Adjust the core of T201 so that the voltage measured in signal mode is 0 mV (0 ± 20 mV) in 300 mV range.
 5. Adjust T202 so that the distortion factor of L-CH and R-CH is minimized.
 6. Repeat steps 4 and 5.
- Note: The adjusting screwdriver used should be made of resin.

FM SIGNAL GENERATOR CONDITION
 Modulation 100%
 Modulation frequency 1 kHz
 Output level 66 dB



MPX VCO ADJUSTMENT

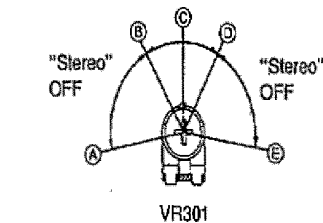
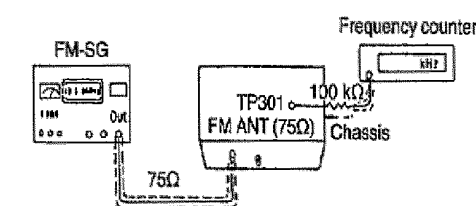
1. Test equipment connection is shown in figure.
2. Set the unit to "on/auto" position.
3. Set the radio frequency display and signal generator to 100.10 MHz.
4. Adjust VR301 for 19 kHz $\pm$ 30 Hz on frequency counter reading.

USING ALTERNATE SYSTEM

1. Receive the stereo broadcast.
2. Adjust VR301 until stereo indicator lights up. Fix the arm of VR301 as shown in figure.

FM SIGNAL GENERATOR CONDITION

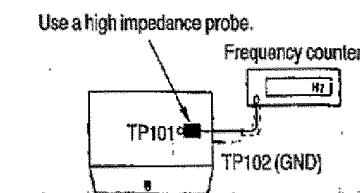
Modulation 100%
 Modulation frequency 0 kHz
 Output level 66 dB



- ①-②, ③-④ "Stereo" OFF position
- ⑤-⑥ "Stereo" ON position (indicator lighting)
- ⑦ Adjust point of pilot circuit

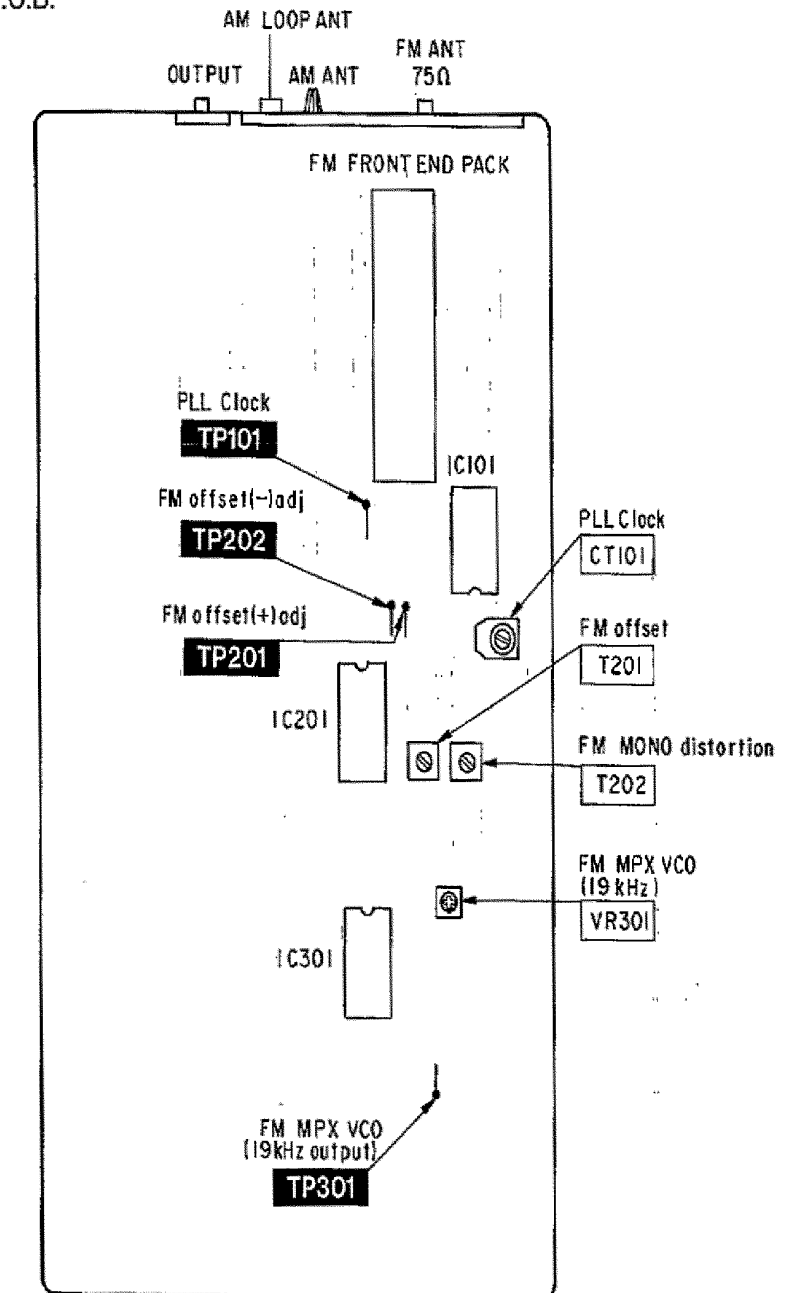
PLL CLOCK FREQUENCY ADJUSTMENT

1. Test equipment connection is shown in figure.
2. Set the Power Switch to "OFF". (The indication "E" in the display will blink.)
3. Adjust CT101 for 2,097,152 Hz $\pm$ 10 Hz on frequency counter reading.



ADJUSTMENT POINT

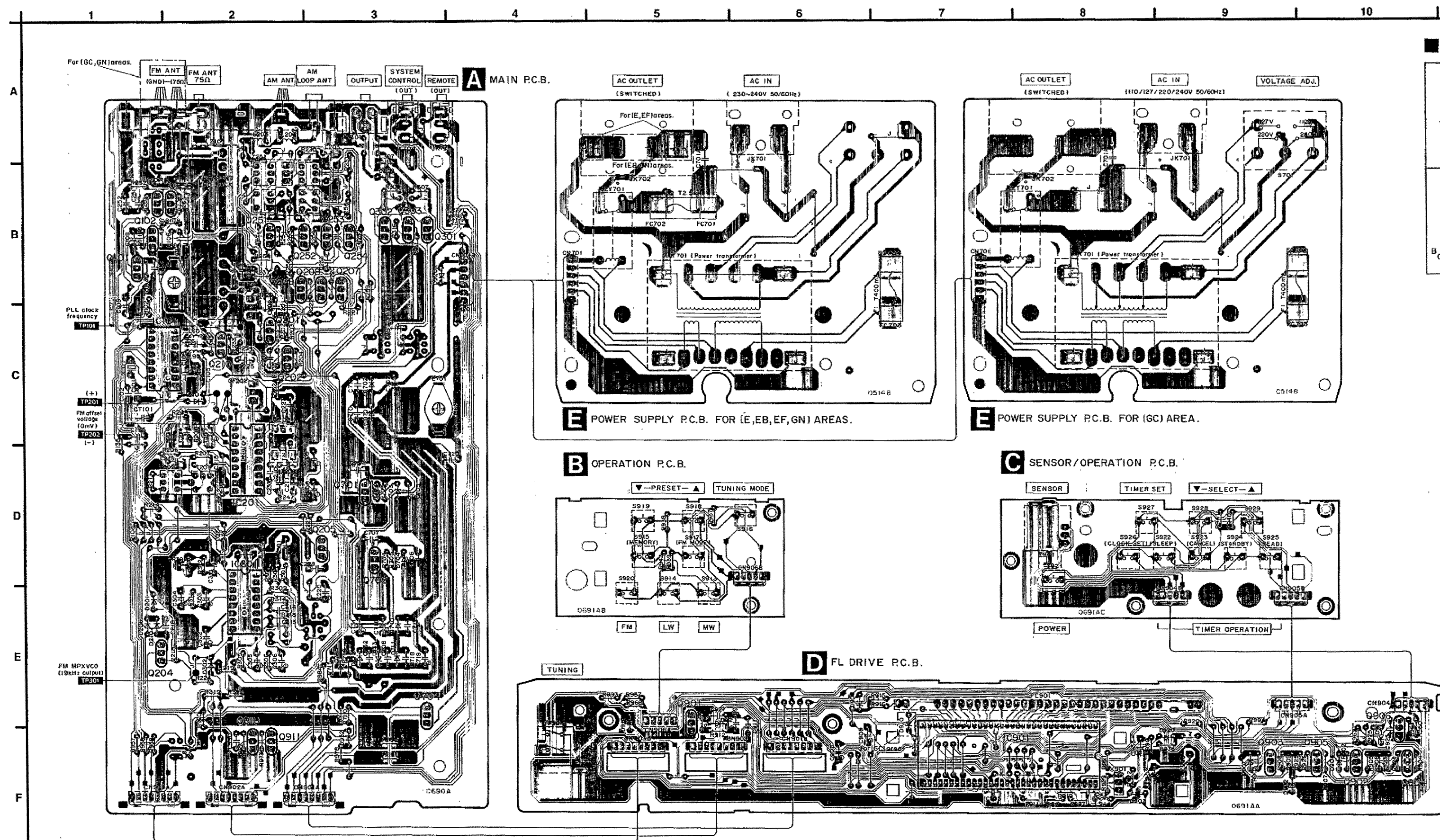
MAIN P.C.B.



A MAIN CIRCUIT

Ref. No.	Production Part No.	Supply Part No.
IC301	AN7470	SVIUPC1161C3

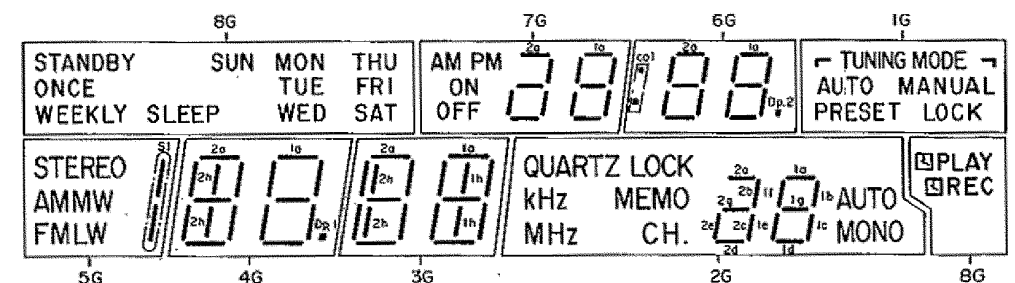
CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM (Parts list on pages 19~22.)



TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

LM7001 DTC114ESTP DTC144ESTP	AN7470 2SA1309AQSTA 2SC2785FETA 2SC2787LTA 2SC3311AQSTA	AN7273W MA165TA 1SS291TA 1SR35200TB MA700TA	MN181125STT MA4100MTA MA4150MTA MA4240MTA	2SC1685RSTTA MA4068LTA MA4047MTA	2SC3940AQSTA
---	--	--	---	---	-------------------------

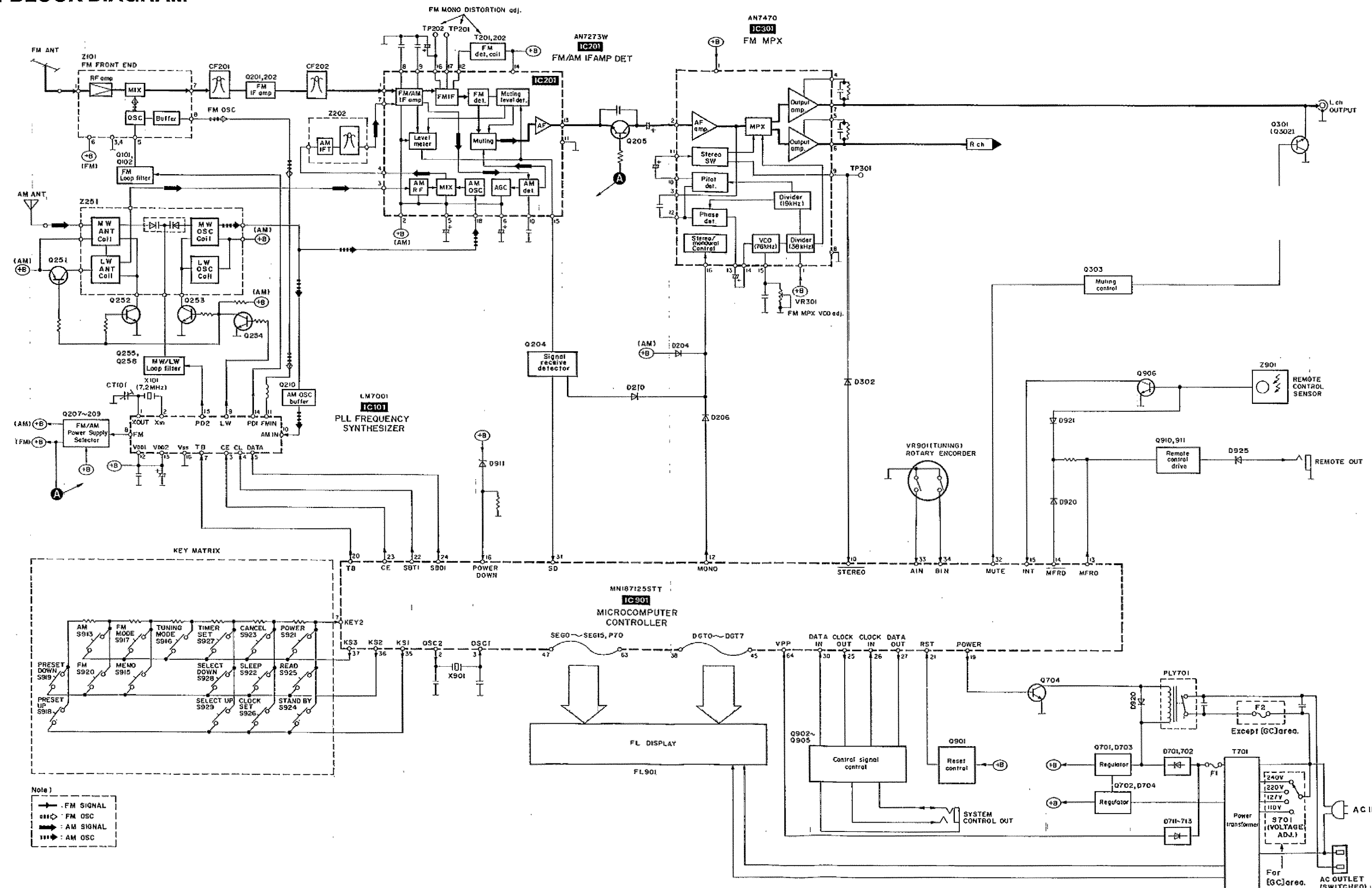
DESCRIPTION OF FL PANEL



ANODE CONNECTION

	8G	7G	6G	5G	4G	3G	2G	1G
P0	SLEEP	AM	2d	LW	2d	2d	CH.	LOCK
P1	—	PM	2e	FM	2e	2e	MHz	—
P2	WEEKLY	2c	2c	AM	2c	2c	kHz	MANUAL
P3	—	—	2g	MW	2g	2g	2a, 2i, 2e, 2g	—
P4	ONCE	—	2f	—	2f	2f	MEMO	—
P5	—	2b	2b	—	2b	2b	AUTO	AUTO
P6	STANDBY	2a, 2d, 2e, 2g	2a	STEREO	2a	2a	QUARTZ LOCK	PRESET
P7	PLAY	ON	col	S1	2h	2h	2b	TUNING MODE
P8	WED	1d	1d	—	1d	1d	1d	—
P9	SAT	1e	1e	—	1e	1e	1e	—
P10	TUE	1c	1c	—	1c	1c	1c	—
P11	FRI	1g	1g	—	1g	1g	1g	—
P12	MON	1f	1f	—	1f	1f	1f	—
P13	THU	1b	1b	—	1b	1b	1b	—
P14	SUN	1a	1a	—	1a	1a	1a	—
P15	REC	OFF	DP, 2	—	DP, 1	1h	2c	—
P16	—	—	—	—	—	—	MONO	—

■ BLOCK DIAGRAM



■ FUNCTIONS OF IC TERMINALS (IC901: MN187125STT)

Pin No.	Mark	I/O Division	Function
1	VDD	I	Power supply (connected to +5 V)
2	OSC2	O	Clock (4.19 MHz)
3	OSC1	I	
4	VSS	—	GND
5	XI	I	Clock (32.768 kHz)
6	XO	O	
7	KEY2	I	Key data input terminal
8	KEY1		
9	SD	I	SD signal terminal
10	STEREO	I	STEREO signal terminal
11	DIR	O	Tape deck drive signal terminal
12	P22	O	Reset
13	MFRQ	O	Remote control signal terminal
14	MFRD	I	Remote control signal detect terminal
15	REMOTE	I	Remote control signal terminal
16	Power Down	I	Power failure detect terminal
17	SDC	O	Tuner select signal output terminal
18	MPD	I	Mechanical power signal input terminal
19	POWER	O	Relay drive signal output terminal
20	TCIO	I	4.19 MHz Test terminal
21	RST	I	Reset terminal
22	SBTI	O	Data output for IC101 (LM7001)
23	CE	O	
24	SBOI	O	
25	BUS CK1	O	Clock output
26	BUS CK2	O	Clock input
27	BUS DATA	O	Data output
28	NC	—	—
29	CM	—	GND
30	BUS DATA2	I	Data input
31	MONO	O	Auto/mono changeover terminal
32	MUTE	O	Mute signal terminal
33	A IN	I	Rotary pulse input terminal
34	B IN		
35	KS1	O	Key matrix
36	KS2		
37	KS3		
38	DGT0	O	Digital signal terminal for display
45	DGT7		
46	P71	I	Reset
47	P70	O	Segment signal terminal for display
63	SEG15		
	SEG0		
64	VPP	—	Common signal terminal for display

REPLACEMENT PARTS LIST

Notes : * Important safety notice:

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

* 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	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)		D906, 907	MA700TA	DIODE	
				D908	MA4047MTA	DIODE	
				D910	MA700ATA	DIODE	(GC)
IC101	LM7001	I. C, PLL FREQ. SYNTHESIZER		D911	MA4100MTA	DIODE	
IC201	AN7273W	I. C, FM/AM IF AMP. DET.		D912	MA165	DIODE	
IC301	SVIUPC1161C3	I. C, FM MPX		D915	MA165	DIODE	
IC901	MN187125STT	I. C, CONTROLLER		D920	MA165	DIODE	
		TRANSISTOR(S)		D920A	MA165	DIODE	
				D921	MA165	DIODE	
				D952	MA165	DIODE	
Q101, 102	2SC2785FE	TRANSISTOR				VARIABLE RESISTOR(S)	
Q201, 202	2SC2787L	TRANSISTOR					
Q204, 205	2SC3311A-Q	TRANSISTOR		VR301	EVNDXAA00B53	V. R, FM MPX VCO ADJ.	
Q207	2SC3311A-Q	TRANSISTOR		VR901	EVQWQ102224B	V. R, ROTARY ENCODER	
Q208, 209	2SA1309A-R	TRANSISTOR				COMPONENT COMBINATION(S)	
Q210	2SC3311A-Q	TRANSISTOR					
Q251	2SA1309A-R	TRANSISTOR		Z101	RAL0006	COMPONENT COMBINATION	
Q252-254	2SC3311A-Q	TRANSISTOR		Z202	RL12Z003M-T	COMPONENT COMBINATION	
Q255, 256	2SC2785FE	TRANSISTOR		Z251	RLA6Z002M-T	COMPONENT COMBINATION	
Q301, 302	2SC3311A-Q	TRANSISTOR		Z901	RC00001-1	REMOTE SENSOR	
Q303	2SA1309A-R	TRANSISTOR				COIL(S)	
Q701	2SC3940AQSTA	TRANSISTOR					
Q702	2SC1685RSTTA	TRANSISTOR		L101	ELEXT1R0KA9	COIL	
Q704	2SC3311A-Q	TRANSISTOR		L110	ELEXT2R2MA9	COIL	
Q901	2SC3311A-Q	TRANSISTOR		L203, 204	ELESNR22MA	COIL	
Q902	DTC144EKT96	TRANSISTOR * Sec T/x		L901	ELEXT101KA9	COIL	
Q903	DTC114ESTP	TRANSISTOR		L911	ELEXT1R0KA9	COIL	
Q904-906	2SC3311A-Q	TRANSISTOR		L914	ELEXT101KA9	COIL	
Q910	2SC3311A-Q	TRANSISTOR				TRANSFORMER(S)	
Q911	DTC144EKT96	TRANSISTOR					
		DIODE(S)		T201	RL14B002M-Z	TRANSFORMER	
D104	MA165	DIODE		T202	RL14B003M-Z	TRANSFORMER	
D201	MA165	DIODE		T701	RFKCTX302LEK	POWER TRANSFORMER	Δ (E, EB, GN)
D204	MA165	DIODE		T701	RFKCTX302LGC	POWER TRANSFORMER	Δ (GC)
D206	MA165	DIODE				FILTER(S)	
D210	MA165	DIODE					
D302	MA165	DIODE		CF201, 202	RLFFETWNA01L	CERAMIC FILTER	
D701, 702	1SR35200TB	DIODE Δ				OSCILLATOR(S)	
D703	MA4150M	DIODE					
D704	MA4068L	DIODE		X101	SVQ49U722-S	OSCILLATOR	
D705	MA4240H	DIODE					
D710-713	MA165	DIODE Δ					
D901	1SS291TA	DIODE					
D902	MA165	DIODE					

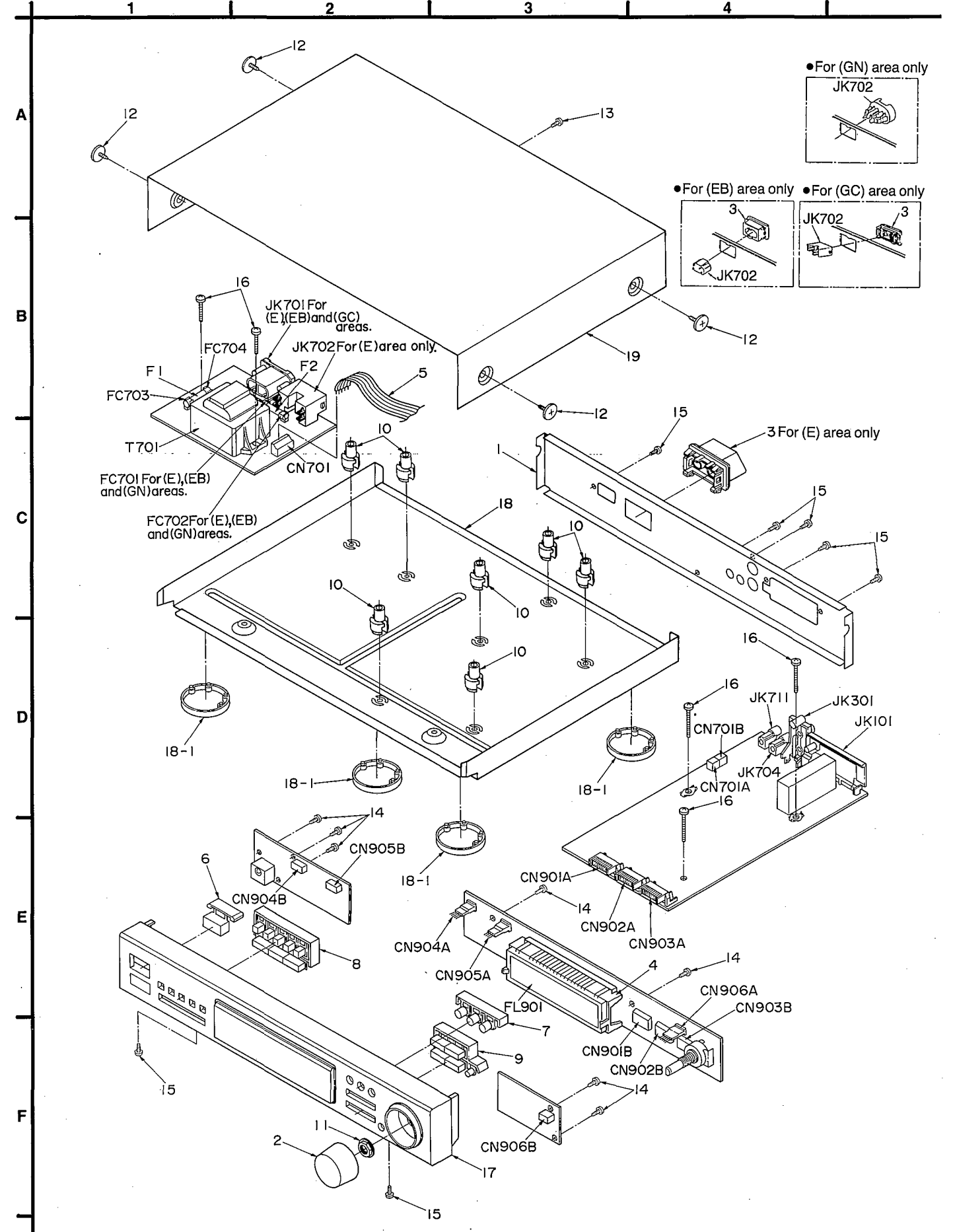
Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
X901	EF0GC4194T4	OSCILLATOR		FC702	EYF52BC	FUSE HOLDER	
				FC703	EYF52BC	FUSE HOLDER	(E, EB, GN)
		DISPLAY		FC704	EYF52BC	FUSE HOLDER	(E, EB, GN)
FL901	RSL0099-F	DISPLAY				RELAY(S)	
		SWITCH(ES)		RLY701	RSY0005M-1C	RELAY	△
						JACK(S)	
S701	SSR187-1	SW, VOLTAGE SELECTOR	△ (GC)				
S913	EVQ21405R	SW, MW		JK101	RJH4202M	ANTENNA TERMINAL	(E, EB)
S914	EVQ21405R	SW, LW		JK101	RJH4405-1M	ANTENNA TERMINAL	(GC, GN)
S915	EVQ21405R	SW, MEMORY		JK301	SJF3068-5N	OUTPUT	
S916	EVQ21405R	SW, TUNING MODE		JK701	SJS9236	AC INLET	△ (E, EB, GC)
S917	EVQ21405R	SW, MODE		JK701	SJSD16	AC INLET	△ (GN)
S918	EVQ21405R	SW, UP		JK702	RJS1A4902-B	AC OUTLET	△ (E)
S919	EVQ21405R	SW, DOWN		JK702	RJS1A4802-B	AC OUTLET	△ (EB)
S920	EVQ21405R	SW, FM		JK702	SJS9331B	AC OUTLET	△ (GC)
S921	EVQ21405R	SW, POWER		JK702	RJS1A8102	AC OUTLET	△ (GN)
S922	EVQ21405R	SW, SLEEP		JK704	RJJ33T01	M3 JACK (SYSTEM CONT. OUT)	
S923	EVQ21405R	SW, CANCEL		JK711	RJJ33TR01	M3 JACK (REMOTE OUT)	
S924	EVQ21405R	SW, STANDBY					
S925	EVQ21405R	SW, READ				FUSE(S)	
S926	EVQ21405R	SW, CLOCK SET					
S927	EVQ21405R	SW, TIMER SET					
S928	EVQ21405R	SW, DOWN		F1	XBA2C04TB0	FUSE, 250V 0.4A	△
S929	EVQ21405R	SW, UP		F2	XBA2C25TB0	FUSE, 250V 2.5A	△ (E, EB, GN)
		CONNECTOR(S)					
CN701	SJT30643-V	CONNECTOR (6P)					
CN701A	RJS1A1703	SOCKET (3P)					
CN901A	RJU003K008M1	SOCKET (8P)					
CN902A	RJU003K008M1	SOCKET (8P)					
CN903A	RJU003K008M1	SOCKET (8P)					
CN904A	SJT30549BB1	CONNECTOR (5P)					
CN905A	SJT30549BB1	CONNECTOR (5P)					
CN906A	SJT30549BB1	CONNECTOR (5P)					
CN701B	RJS1A1703	CONNECTOR (3P)					
CN901B	RJT003K008M1	CONNECTOR (8P)					
CN902B	RJT003K008M1	CONNECTOR (8P)					
CN903B	RJT003K008M1	CONNECTOR (8P)					
CN904B	SJS50581BB	SOCKET (5P)					
CN905B	SJS50581BB	SOCKET (5P)					
CN906B	SJS50581BB	SOCKET (5P)					
		VARIABLE CAPACITOR(S)					
CT101	RCV10AF1T-S	VARIABLE CAPACITOR					
		FUSE HOLDER(S)					
FC701	EYF52BC	FUSE HOLDER					

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
			R305, 306	ERDS2TJ332	1/4W 3. 3K	R975	ERDS2TJ473	1/4W 47K
		RESISTORS	R307, 308	ERDS2TJ104	1/4W 100K	R976	ERDS2TJ103	1/4W 10K
			R309	ERDS2TJ474	1/4W 470K	R978	ERDS2TJ102	1/4W 1K
R102, 103	ERDS2TJ103	1/4W 10K	R311	ERDS2TJ102	1/4W 1K	R980, 981	ERDS2TJ2R2T	1/4W 2. 2
R104	ERDS2TJ102	1/4W 1K	R312	ERDS2TJ153	1/4W 15K	R982	ERDS2TJ223	1/4W 22K
R105	ERDS2TJ561	1/4W 560	R313, 314	ERDS2TJ473	1/4W 47K	R984	ERDS2TJ471	1/4W 470
R106	ERDS2TJ562	1/4W 5. 6K	R315	ERDS2TJ103	1/4W 10K	R990	ERDS2TJ104	1/4W 100K
R107	ERDS2TJ103	1/4W 10K	R316	ERDS2TJ102	1/4W 1K	R991	ERDS2TJ122	1/4W 1. 2K
R108	ERDS2TJ391	1/4W 390	R317	ERDS2TJ473	1/4W 47K	R993	ERDS2TJ103	1/4W 10K
R135	ERDS2TJ102	1/4W 1K	R319	ERDS2TJ103	1/4W 10K	R994	ERDS2TJ102	1/4W 1K
R201	ERDS2TJ272T	1/4W 2. 7K	R320	ERDS2TJ273	1/4W 27K			CAPACITORS
R202	ERDS2TJ824	1/4W 820K	R702	ERDS2TJ102	1/4W 1K			
R203	ERDS2TJ331	1/4W 330	R703	ERDS2TJ331	1/4W 330	C101	ECBT1H8R2KC5	50V 8. 2P
R204	ERDS2TJ474	1/4W 470K	R704	ERDS2TJ222	1/4W 2. 2K	C102	ECBT1H150JC5	50V 15P
R205	ERDS2TJ331	1/4W 330	R705	ERDS2TJ221	1/4W 220	C103	ECBT1H102KB5	50V 1000P
R206	ERDS2TJ561	1/4W 560	R710	ERDS2TJ152	1/4W 1. 5K	C105	ECEA0JKA101B	6. 3V 100U
R207	ERDS2TJ822	1/4W 8. 2K	R711	ERDS2TJ100	1/4W 10	C106, 107	ECBT1C103NS5	16V 0. 01U
R208	ERDS2TJ102	1/4W 1K	R715	ERDS2TJ101	1/4W 100	C108	ECEA25M4R7R	25V 4. 7U
R209	ERDS2TJ471	1/4W 470	R716	ERDS2TJ151	1/4W 150	C109	ECEA1CKA330B	16V 33U
R210	ERDS2TJ332	1/4W 3. 3K	R902, 903	ERDS2TJ100	1/4W 10	C121	ECBT1H102KB5	50V 1000P
R211	ERDS2TJ222	1/4W 2. 2K	R904	ERDS2TJ223	1/4W 22K	C135	ECBT1H101KB5	50V 100P
R214	ERDS2TJ103	1/4W 10K	R905	ERDS2TJ100	1/4W 10	C201, 202	ECBT1C103NS5	16V 0. 01U
R218	ERDS2TJ391	1/4W 390	R906	ERDS2TJ393	1/4W 39K	C203	ECBT1H8R2KC5	50V 8. 2P
R219	ERDS2TJ472	1/4W 4. 7K	R907	ERDS2TJ223	1/4W 22K	C204	ECBT1H102KB5	50V 1000P
R220	ERDS2TJ103	1/4W 10K	R908	ERDS2TJ100	1/4W 10	C205	ECKT1H223ZF	50V 0. 022U
R221	ERDS2TJ104	1/4W 100K	R909	ERDS2TJ393	1/4W 39K	C206	ECBT1H150JC5	50V 15P
R222	ERDS2TJ473	1/4W 47K	R911	ERDS2TJ562	1/4W 5. 6K	C208	ECEA0JKA101B	6. 3V 100U
R224	ERDS2TJ472	1/4W 4. 7K	R912	ERDS2TJ103	1/4W 10K	C209	ECEA1EKA4R7B	25V 4. 7U
R227	ERDS2TJ104	1/4W 100K	R913	ERDS2TJ104	1/4W 100K	C210, 211	ECKT1H223ZF	50V 0. 022U
R230	ERDS2TJ104	1/4W 100K	R915, 916	ERDS2TJ101	1/4W 100	C212	ECBT1E223ZF	25V 0. 022U
R231	ERDS2TJ102	1/4W 1K	R919	ERDS2TJ103	1/4W 10K	C213	ECBT1H101KB5	50V 100P
R232	ERDS2TJ122	1/4W 1. 2K	R920	ERDS2TJ102	1/4W 1K	C214	ECEA1CKA100B	16V 10U
R233	ERDS2TJ684	1/4W 680K	R921	ERDS2TJ103	1/4W 10K	C215	ECBT1C103NS5	16V 0. 01U
R234	ERDS2TJ103	1/4W 10K	R922	ERDS2TJ104	1/4W 100K	C217	ECEA1HKA010B	50V 1U
R237	ERDS2TJ151	1/4W 150	R923-926	ERDS2TJ393	1/4W 39K	C218	ECFR1E473KR	25V 0. 047U
R247	ERDS2TJ103	1/4W 10K	R927	ERDS2TJ104	1/4W 100K	C220	ECEA1CKA100B	16V 10U
R251	ERDS2TJ103	1/4W 10K	R929	ERDS2TJ102	1/4W 1K	C222	ECFR1E473KR	25V 0. 047U
R252	ERDS2TJ822	1/4W 8. 2K	R937	ERDS2TJ392T	1/4W 3.			

[illegible]

CABINET PARTS LOCATION

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS		A3	SJA193	AC POWER SUPPLY CORD	△ (EB)
				A3	RJA0004	AC POWER SUPPLY CORD	△ (GC)
				A3	SJA173	AC POWER SUPPLY CORD	△ (GN)
1	RGRO101C-A	REAR PANEL	(EB)	A4	SJPK2203-2	STEREO CONNECTION CABLE	✓
1	RGRO101D-A	REAR PANEL	(GC)	A5	SJP2257T	L-TYPE CABLE	
1	RGRO101E-A	REAR PANEL	(GN)	A6	SPB1162T	AM LOOP ANTENNA	
1	RGRO101B-A	REAR PANEL	(E)	A6-1	SMA233-1M	HOLDER	
2	RGW0118-K	KNOB, TUNING		A6-2	SMA231M	HOLDER	
3	RJS1A4802-A	AC OUTLET COVER	(EB)	A6-3	XTB3+10AFZ	SCREW	
3	SJS9331A	AC OUTLET COVER	(GC)	A7	SSA270M	FM INDOOR ANTENNA	(E, EB)
3	RJS1A4602	AC OUTLET COVER	(GN)	A7	SSA272M	FM INDOOR ANTENNA	(GC, GN)
3	RJS1A4902-A	AC OUTLET COVER	(E)	A8	SJP9009	ATTACHMENT PLUG	△ (EB)
4	RMN0099-1	FL HOLDER		A9	SJP9215	AC PLUG ADAPTOR	△ (GC)
5	RWJ1806130QQ	FLAT CABLE					
6	RGU0453-K	BUTTON					
7	RGU0455-K	BUTTON					
8	RGU0587-K	BUTTON					
9	RGU0588-K	BUTTON					
10	SHE187-2	HOLDER					
11	SNE4021	NUT					
12	RHD30007	SCREW					
13	XTB3+8JFZ	SCREW					
14	XTBS26+8J	SCREW					
15	XTBS3+8JFZ1	SCREW					
16	XTB3+20JFZ	SCREW					
17	RFKGTX302LEK	FRONT PANEL ASS'Y					
18	RFKJTX302LEK	BOTTOM CASE ASS'Y					
18-1	RKA0011-2	FOOT					
19	RKM0055-1K	CABINET					
		PACKING MATERIAL					
P1	RP60846	PACKING CASE					
P2	RPN0329-1	PAD					
P3	SPSD152	ACCESSORIES BOX					
P4	SPB1061	PROTECTION COVER (MANUAL)					
		ACCESSORIES					
A1	RAK-SC304W	REMOTE CONTROLLER					
A1-1	RKK0020-K	BATTERY COVER					
A2	RQF1005	INSTRUCTIONS MANUAL ASS'Y	(E)				
A2	RQF1006	INSTRUCTIONS MANUAL ASS'Y	(EB)				
A2	RQF1008	INSTRUCTIONS MANUAL ASS'Y	(GC)				
A2	RQF1009	INSTRUCTIONS MANUAL ASS'Y	(GN)				
A2-1	RQA0013	WARRANTY CARD	(E, EB)				
A2-1	SQX7186	WARRANTY CARD	(GN)				
A2-2	RQCB0169	SERVICE CENTER LIST					
A2-3	RQT0922-B	INSTRUCTIONS MANUAL	(EB, GN)				
A2-3	RQT0920-G	INSTRUCTIONS MANUAL	(GC)				
A2-3	RFKSTX302LEK	INSTRUCTION MANUAL	(E)				
A3	SFDAC05E03	AC POWER SUPPLY CORD	△ (E)				



■ PACKING

