

STR-GX70ES/GX70ESA

SERVICE MANUAL

AEP Model

STR-GX70ESA

West Germany Model

STR-GX70ES



Photo : STR-GX70ES

SPECIFICATIONS

Amplifier section

Continuous RMS power output
(both channels driven simultaneously)

DIN 45500	4 ohms	80 W + 80 W
THD 0.7%	8 ohms	80 W + 80 W
IEC	4 ohms	80 W + 80 W
THD 0.7%	8 ohms	80 W + 80 W
20 Hz - 20 kHz THD 0.3%	4 ohms	60 W + 60 W

Frequency response

PHONO: RIAA equalization curve ± 0.5 dB

CD, DAT, TAPE, VIDEO: 5 Hz - 50 kHz $^{+0}_{-3}$ dB

Residual noise Less than 70 μ V
(8 ohms, network A)

Damping factor 50 (8 ohms, 1 kHz)

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO	2.5 mV	50 kilohms	87 dB 79 dB* (A, 2.5 mV)
CD VIDEO TAPE DAT	150 mV	50 kilohms	105 dB 86 dB* (A, 150 mV)

*'78 IHF

Outputs

VIDEO, TAPE, DAT

Voltage 150 mV

Impedance 10 kilohms

SPEAKER A, B

Accepts speakers of 4 - 16
ohms.

HEADPHONES

Accepts low and high
impedance headphones.

Tone controls

BASS: ± 8 dB at 100 Hz

TREBLE: ± 8 dB at 10 kHz

Muting

- 20 dB

- Continued on page 2 -

FM STEREO / FM-AM RECEIVER
SONY®

TABLE OF CONTENTS

FM/AM tuner section

	FM tuner section	AM tuner section
Tuning	87.5 – 108 MHz	531 – 1,602 kHz
Antenna	75 ohms, unbalanced	External antenna terminal, loop antenna
Intermediate frequency	10.7 MHz	450 kHz
Sensitivity at 50 dB quieting	16.8 dBf, 1.9 μ V (75 ohms) (mono) 37.9 dBf, 21.5 μ V (75 ohms) (stereo)	
Usable sensitivity	11.2 dBf, 2 μ V (IHF)	Loop antenna: 50 dB/m (at 1,000 kHz) External antenna: 100 μ V (at 1,000 kHz)
Signal-to-noise ratio	77 dB (mono) 73 dB (stereo)	50 dB (at 50 mV/m)
Harmonic distortion	0.05% (mono), 0.07% (stereo) at 1 kHz	0.3% (at 50 mV/m, 400 Hz)
Selectivity	85 dB at 400 kHz	30 dB at 9 kHz
Separation	55 dB at 1 kHz	
Frequency response	30 Hz – 15 kHz +0.5 –1.5 dB	

General

System Tuner section: PLL quartz-locked digital synthesizer system
Preamplifier section: low-noise NF type equalizer amp
Power amplifier section: pure-complementary SEPP

Power requirements

220 V AC, 50/60 Hz

Power consumption

150 W

AC outlet One switched (100 W max.)

Dimensions Approx. 430 × 135 × 375 mm (w/h/d) including projecting parts and controls

Weight Approx. 8.9 kg net
Approx. 10.2 kg in shipping carton

Accessories supplied

FM wire antenna (1)
AM loop antenna (1)
Remote Commander RM-U203 (1)
Sony batteries SUM-3(NS)
(for the remote commander) (2)

Design and specifications subject to change without notice.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

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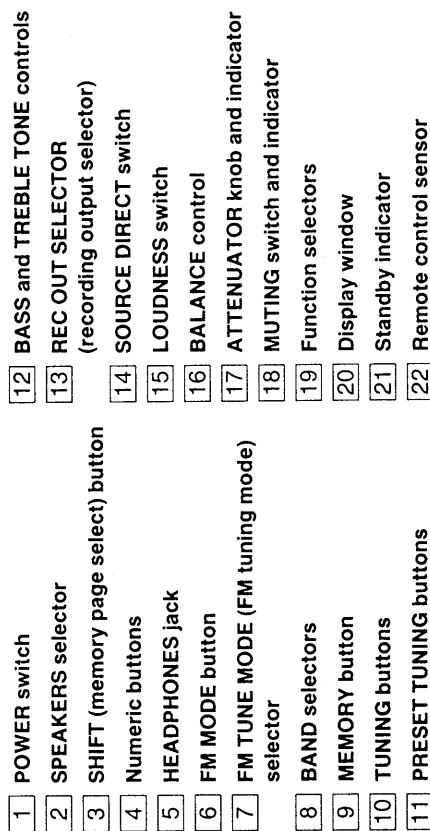
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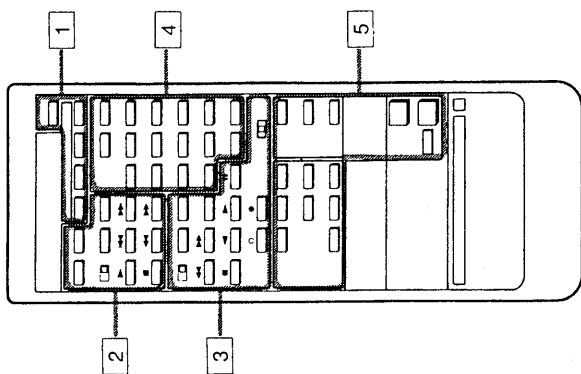
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Front Panel



Remote Commander RM-U203



- 1 Power control section**
- SYSTEM OFF:** Turns off the power of the whole system: LDP, VTR, TV and AUDIO.
- LDP/VTR/TV/AUDIO POWER:** Control the power of each unit. (The VTR POWER button can be used only when the TAPE/VTR selector is set to VTR.)
- 2 CDP/LDP control section**
- CDP/LDP:** Selects CDP (CD player) or LDP (Laser disc player) to be played. The combined CD/LD player can be controlled with this selector set to LDP.
- CONTINUE:** Continuous play (only for CD player)
- SHUFFLE:** Shuffle play (only for CD player)
- PGM:** Program play (only for CD player)
- D SKIP:** Disc skip (for a CD player equipped with a multi-disc changer)
- ▶: Starts play.
- ◀◀◀/▶▶▶: Locates a desired selection
- : Stops play.
- ◀◀/▶▶: Manual search (only for LD player)

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- 3 TAPE/DAT/VTR control section**
TAPE/VTR: Selects TAPE (tape deck) or VTR to be controlled.
ANT TV/VTR: Selects the output signal from the antenna terminal on the VCR, either a TV signal or VTR programs.
CH + / - : Select channel on the VTR.
◀◀/▶▶: Fast winding
■: Stop
◀/▶: Play
⏏: Pause
Q: Record muting
●: Recording (While pressing ●, press ▶)
- DECK/VTR:**
DECK A, B, and DAT: Select A, B, or DAT.
VTR 1,2, and 3: Select VTR type.
1: Betamax VTRs
2: 8mm VTRs
3: VHS VTRs
- 4 TV control section**
VOL + / - : Control the TV volume.
CH + / - : Select a preset channel.
TV/VIDEO: Selects the input signal of TV.
- Program number (1 to 0) and ENTER: Select the channel.
- 5 Receiver control section**
FUNCTION: Select an input source of the receiver.
SHIFT: Selects a memory page.
TUNER PRESET: Select a preset station.
MUTING: Mutes the sound.
MASTER VOL + / - : Control the receiver volume.
- Note**
SHUFFLE and PGM modes of some CD players cannot be cleared by this remote commander. In such cases, clear the modes using the CD player itself or with the remote commander supplied with the CD player.
- Note on the ● (recording) button under**
3 TAPE/DAT/VTR buttons
● puts it in recording pause mode, first press ● on this commander and then ■.

Note

SHUFFLE and PGM modes of some CD players cannot be cleared by this remote commander. In such cases, clear the modes using the CD player itself or with the remote commander supplied with the CD player.

Note on the ● (recording) button under

- 3** **TAPE/DAT/VTR buttons** if your recorder is of such type as pressing ● puts it in recording pause mode, first press ● on this commander and then **11**.

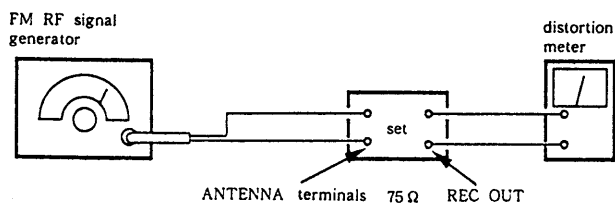
SECTION 2

ELECTRICAL ADJUSTMENTS

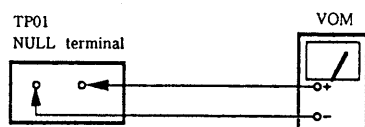
FM DISCRIMINATOR ALIGNMENT

(NULL and MONO Distortion)

Setting :



Carrier frequency : 98MHz
 Modulation : 400Hz, 75kHz deviation
 (100%)
 Output level : 1mV (60dB)

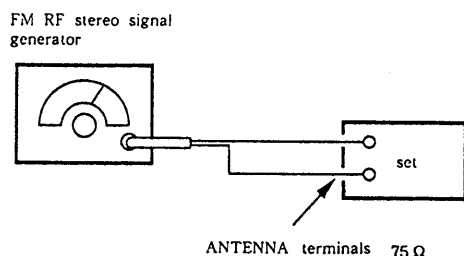


Procedure :

1. Tune the set 98MHz.
2. Adjust the T02 for 0V reading on VOM.NULL
3. Adjust T03 for a minimum reading on the distortion meter.....MONO Distortion.
4. Repeat the primary-side and secondary-side alignments several times.

FM TUNING STOP LEVEL ADJUSTMENT

Setting :



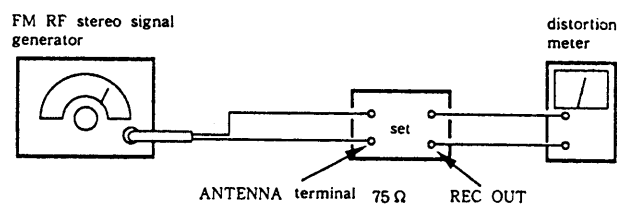
Carrier frequency : 98MHz (25dB)
 Output level : 17.8 μ V
 Modulation :
 Audio 400Hz : 33.75kHz deviation (45%)
 Sub channel 38kHz : 33.75kHz deviation (45%)
 Pilot signal 19kHz : 7.5kHz deviation (10%)

Procedure :

1. Tune the set to 98MHz by pressing the TUNING buttons.
2. Adjust RT03 so that the STEREO LED goes on.

FM METER ADJUSTMENT

Setting :



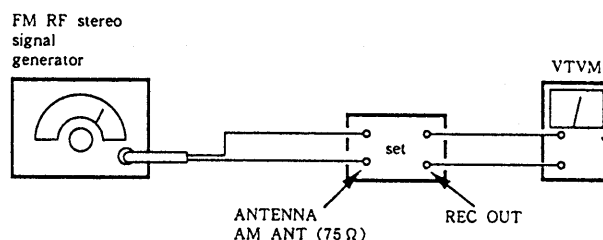
Carrier frequency : 98MHz
 Output level : 316 μ V (50dB μ)
 Modulation :
 Audio 400Hz : 33.75kHz deviation (45%)
 Sub channel 38kHz : 33.75kHz deviation (45%)
 Pilot signal 19kHz : 7.5kHz deviation (19%)

Procedure :

Adjust the RT04 so that the 10 point segments of the signal meter goes on.

FM Stereo Separation Adjustment

Setting :



Carrier frequency : 98MHz
 Output level : 1mV (60dB)
 Modulation :
 Audio 1kHz : 33.7kHz deviation (45%)
 Sub channel 38kHz : 33.75kHz deviation (45%)
 Pilot signal 18kHz : 7.5kHz deviation (10%)
 Mode : stereo

Procedure :

Tune the set to 98MHz

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RT05 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RT05 for minimum reading.

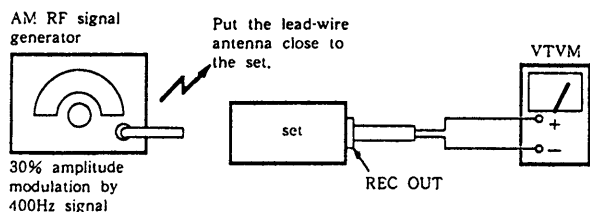
L-CH Stereo separation : Ⓐ - Ⓑ

R-CH Stereo separation : Ⓒ - Ⓓ

The separations of both channels should be equal.

AM SECTION

Setting :



AM IF ADJUSTMENT

Procedure :

1. Tune the set to the SG signal.
2. Adjust for a maximum reading on VTVM.

	SG and set frequency	Adjustment parts	Reading on VTVM
1.	1400kHz	T01	Maximum

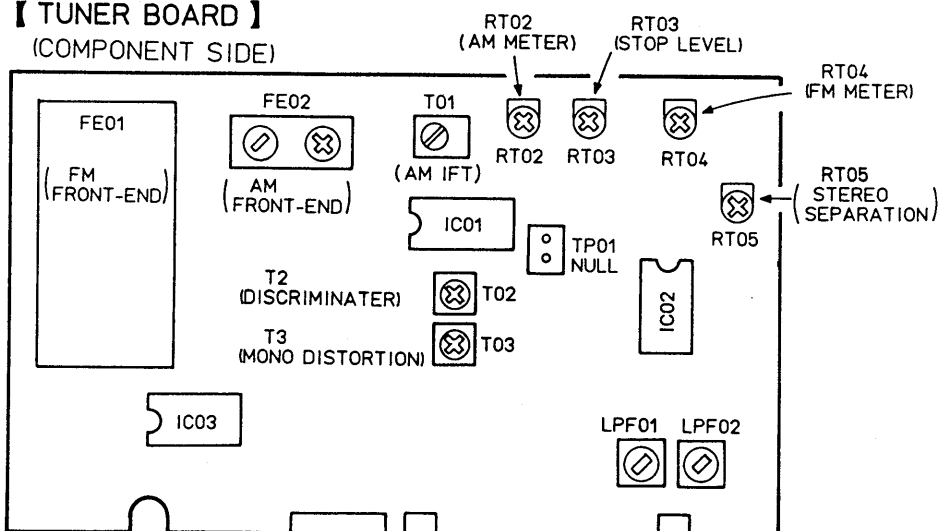
AM METER ADJUSTMENT

Procedure :

1. Tune the set 999kHz (70dB).
2. Adjust the RT02 so that the 9 point segment of the signal meter goes on.

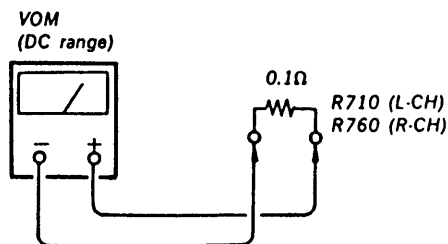
【 TUNER BOARD 】

(COMPONENT SIDE)



AUDIO SECTION

• DC BIAS Adjustment (with no signal input)

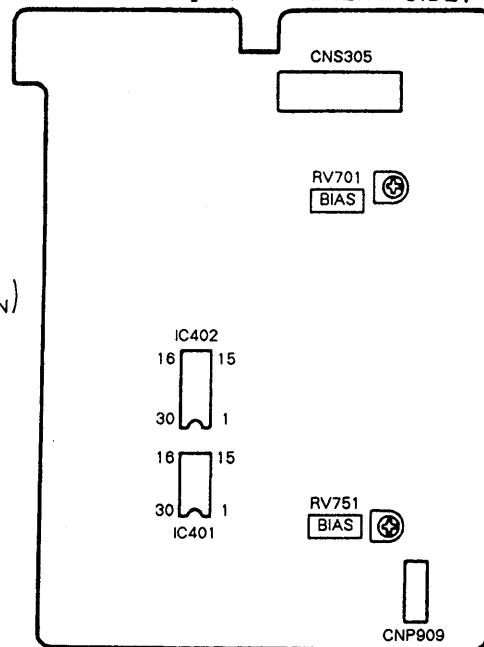


Note : DC BIAS adjustment should be made several minutes after the POWER ON. After replacing the power AMP IC IC701, 751, DC BIAS adjustments should be made.

Procedure :

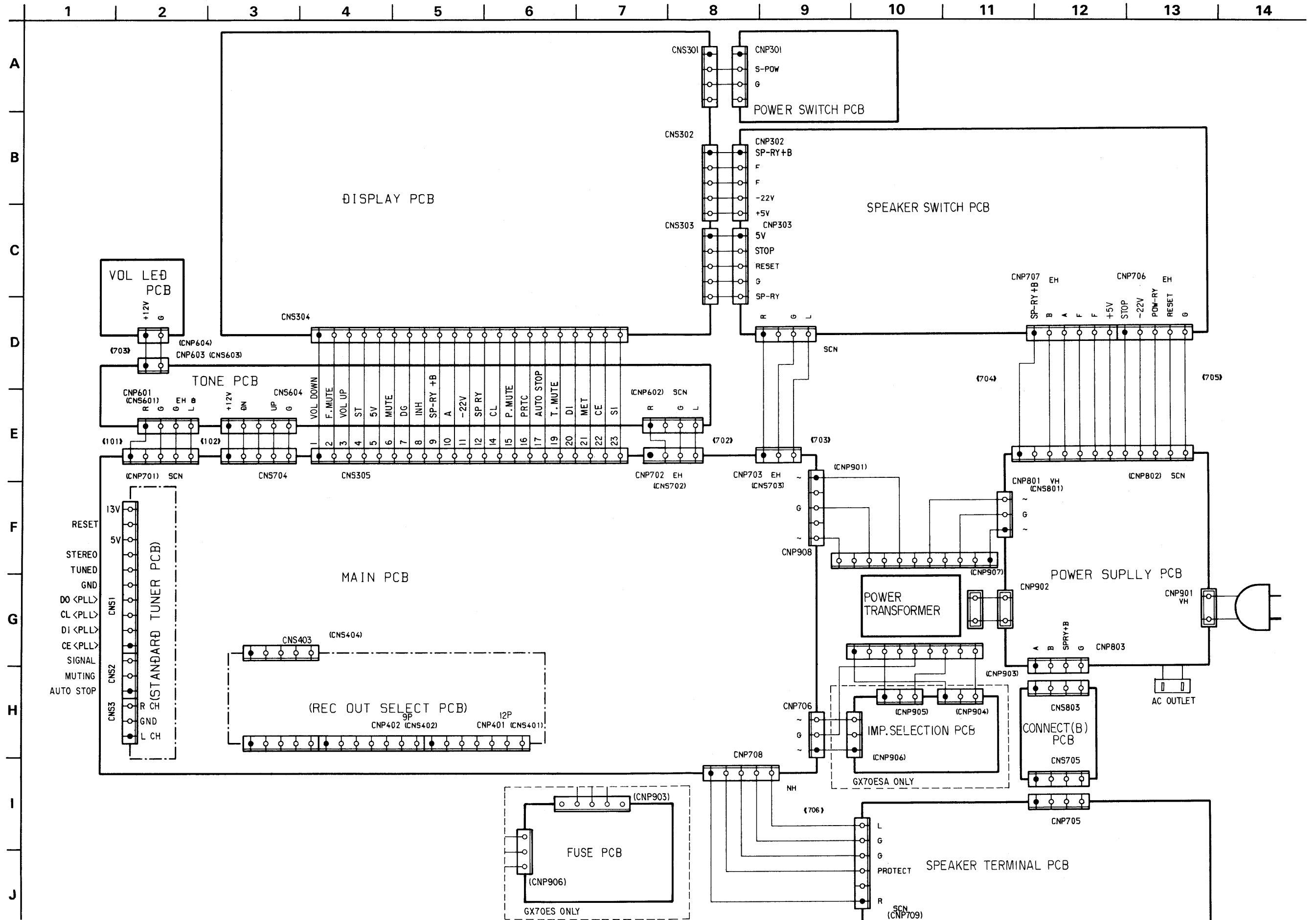
1. Adjust RV701 (Lch) for 5mV readings on the VOM.
2. Adjust RV751 (Rch) for 5mV readings on the VOM.

【 MAIN BOARD 】 (COMPONENT SIDE)

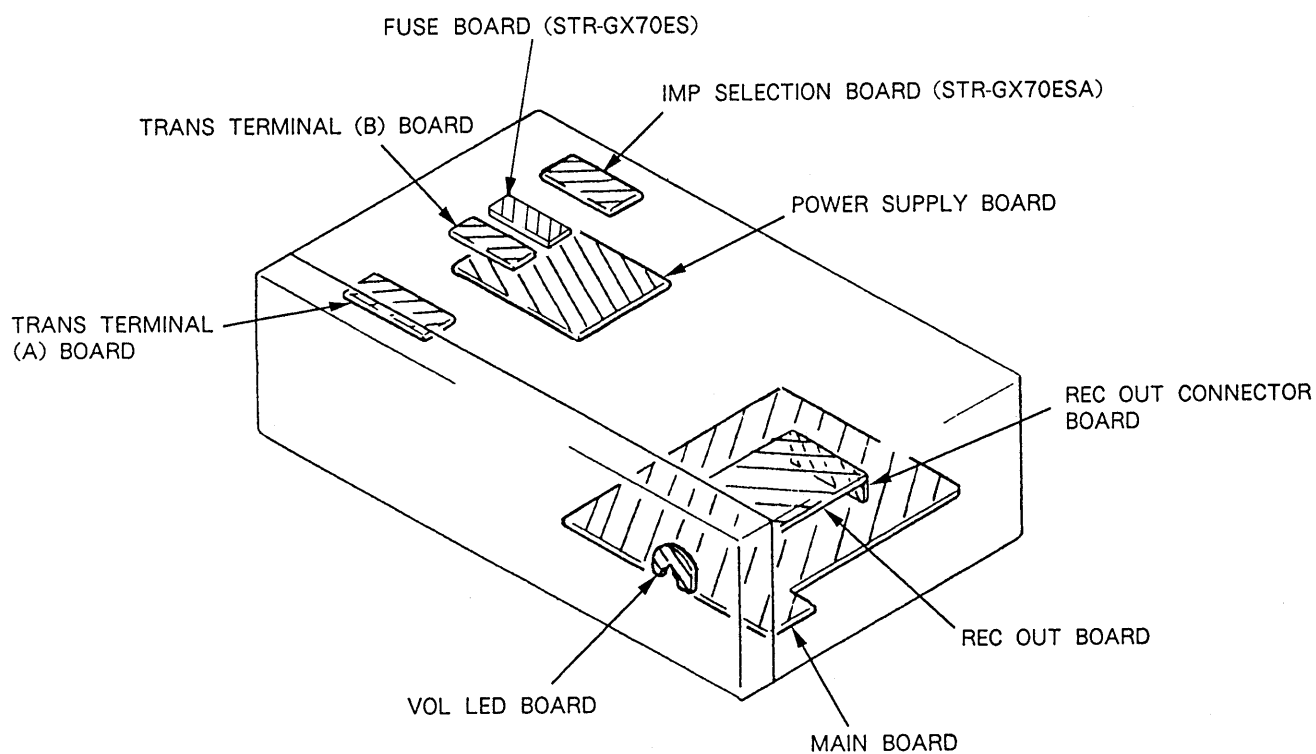
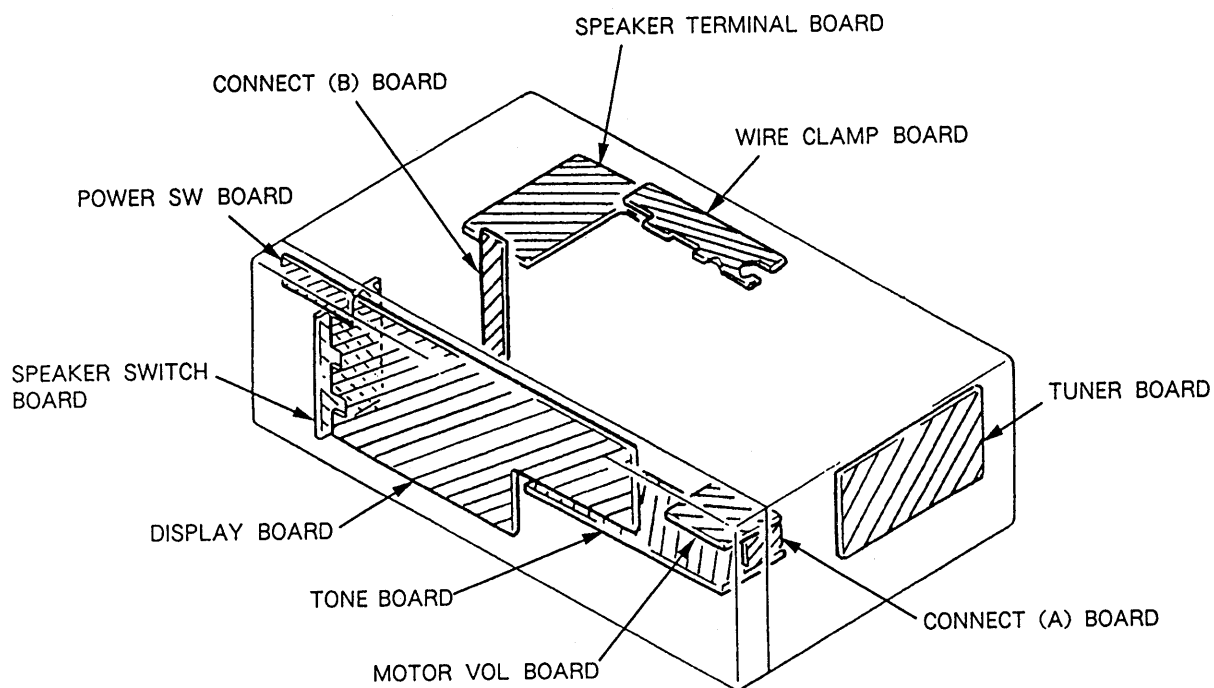


SECTION 3 DIAGRAMS

3-1. FRAME SCHEMATIC DIAGRAM



3-2. CIRCUIT BOARD LOCATION



Note on Schematic Diagram :

- *A, *B: See page 4 for Note on Ceramic Filter (CF1, 2) Replacement.
- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
-  : nonflammable resistor.
-  : B+ Line
-  : B- Line
-  : adjustment for repair.
- no mark : FM mode
- () : AM mode
- Signal path.
-  : FM
- Voltages are taken with a VOM.

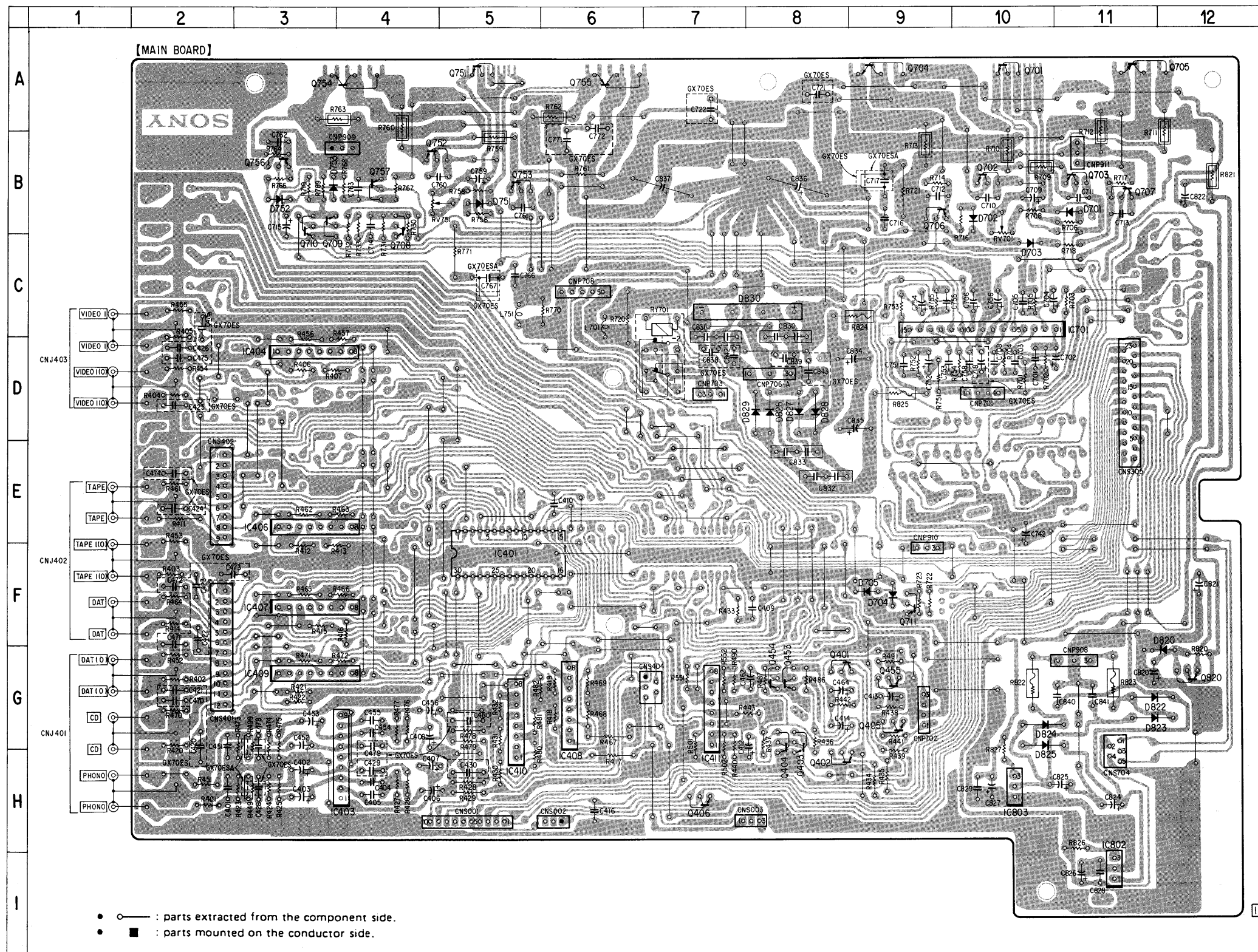
Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

3-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

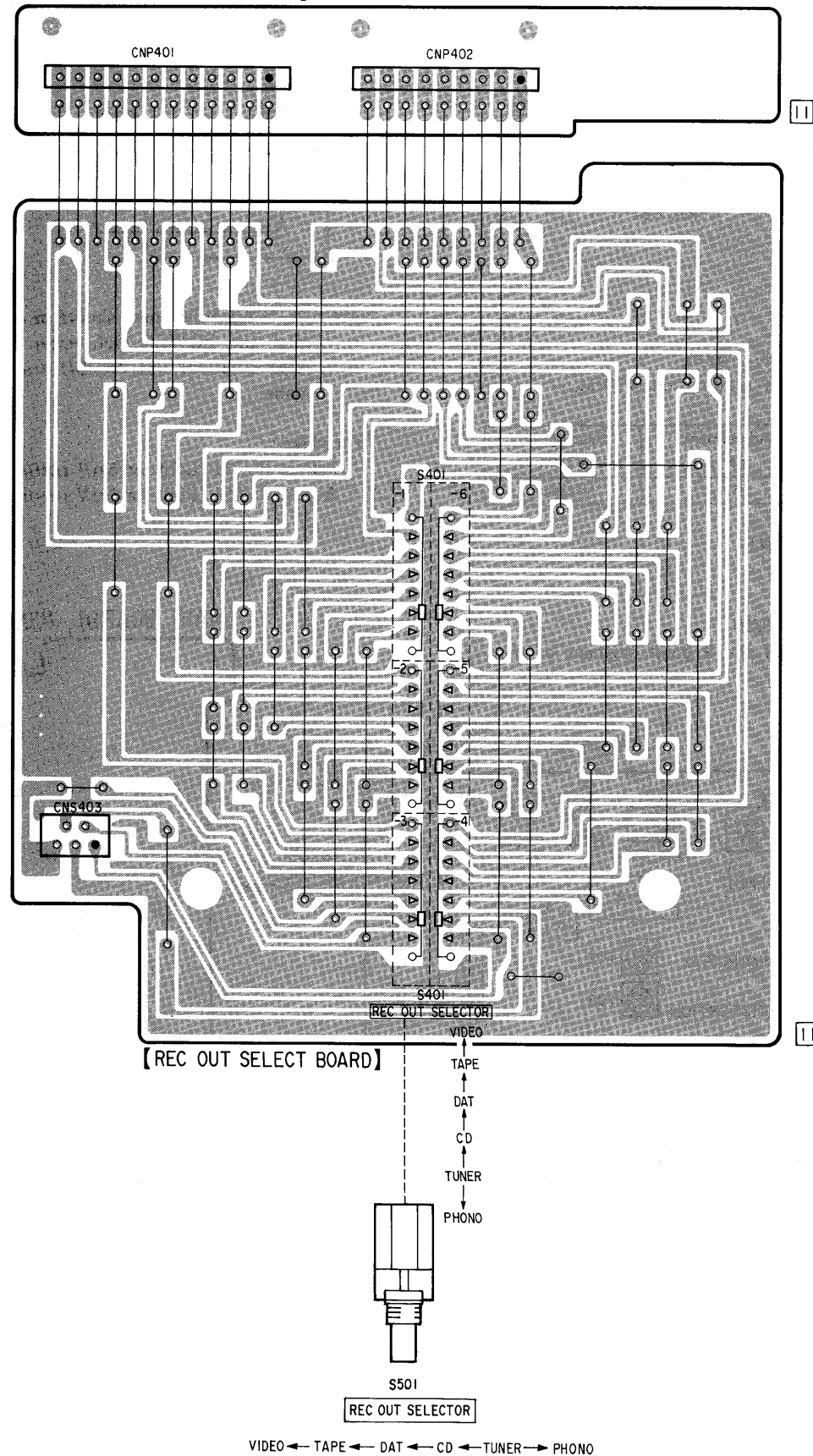
MAIN, REC OUT CONNECTOR, REC OUT SELECT BOARD PRINTED WIRING BOARDS

• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
IC401	F-5	Q751	A-5
IC403	H-4	Q752	B-4
IC404	D-3	Q753	B-5
IC406	E-3	Q754	A-4
IC407	F-3	Q755	A-6
IC408	G-6	Q756	B-3
IC409	G-3	Q757	B-4
IC410	G-5	Q820	G-12
IC411	G-7		
IC701	C-10		
IC802	I-11	D701	B-11
IC803	H-10	D702	B-10
		D703	C-10
		D704	F-9
		D705	F-9
Q401	G-8		
Q402	H-8		
Q403	G-8	D751	B-5
Q404	G-8	D752	B-3
Q405	G-9	D753	B-3
		D820	G-12
Q406	H-7	D822	G-11
Q453	G-8		
Q454	G-8	D823	G-11
Q455	G-9	D824	G-10
Q701	A-10	D825	G-10
		D826	D-8
		D827	D-8
Q702	B-10		
Q703	B-11		
Q704	A-9	D828	D-8
Q705	A-11	D829	D-8
Q706	B-9	D830	C-7
Q707	B-11		
Q708	B-4		
Q709	B-3		
Q710	B-3		
Q711	F-9		



[REC OUT CONNECTOR BOARD]

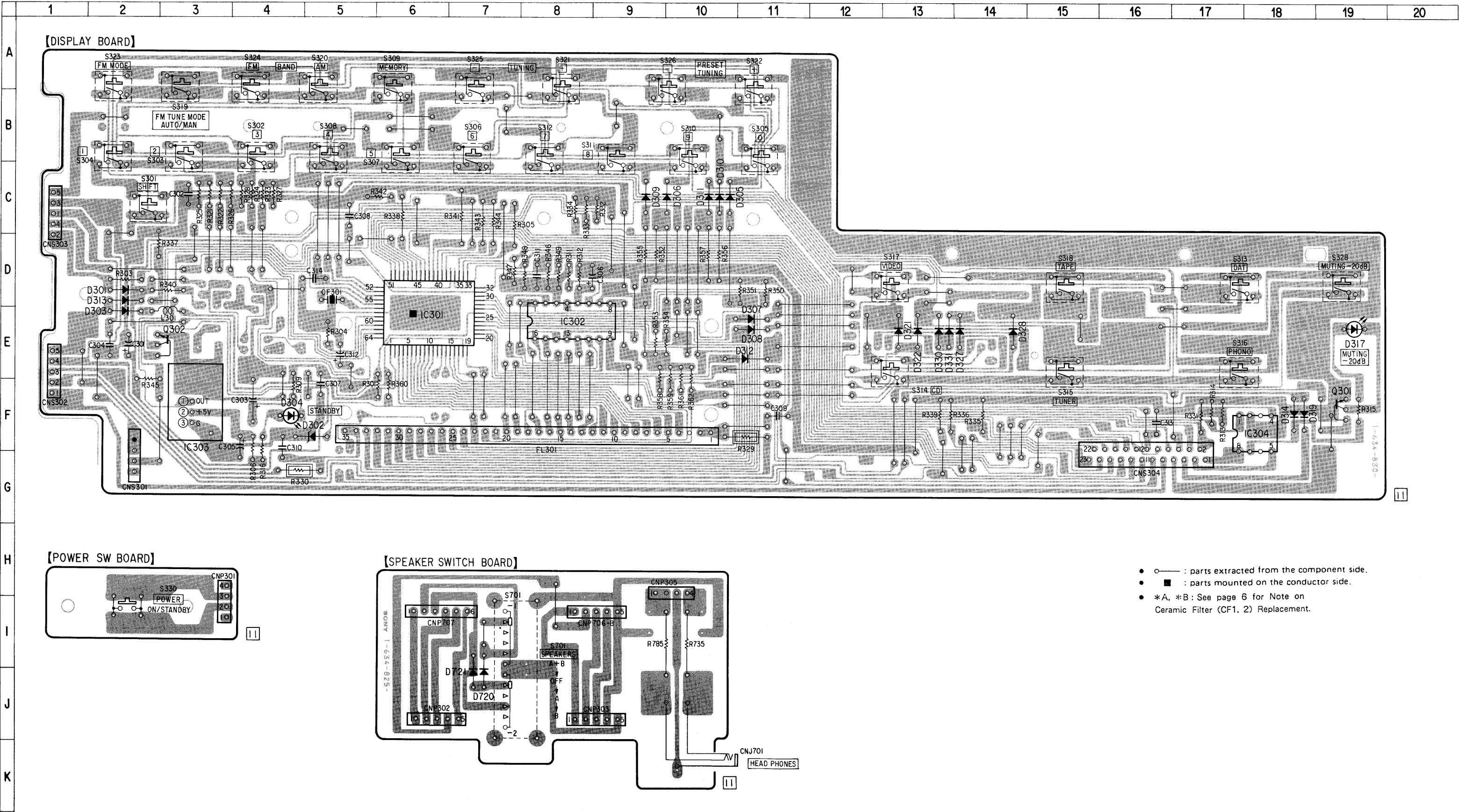


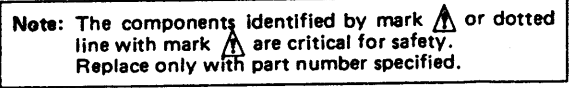


DISPLAY, POWER SW, SPEAKER SW BOARD PRINTED WIRING BOARDS

• SEMICONDUCTOR LOCATION

Ref. No.	Location
IC301	E-6
IC302	E-8
IC303	F-3
IC304	F-18
Q301	F-19
Q302	E-3
D301	D-2
D302	F-5
D303	E-2
D304	F-4
D305	C-10
D306	C-10
D307	E-11
D308	E-11
D309	C-9
D310	C-10
D311	C-10
D312	E-11
D313	D-2
D314	F-18
D317	E-19
D319	F-18
D321	E-13
D322	E-13
D327	E-14
D328	E-14
D330	E-13
D331	E-13
D720	J-7
D721	J-7

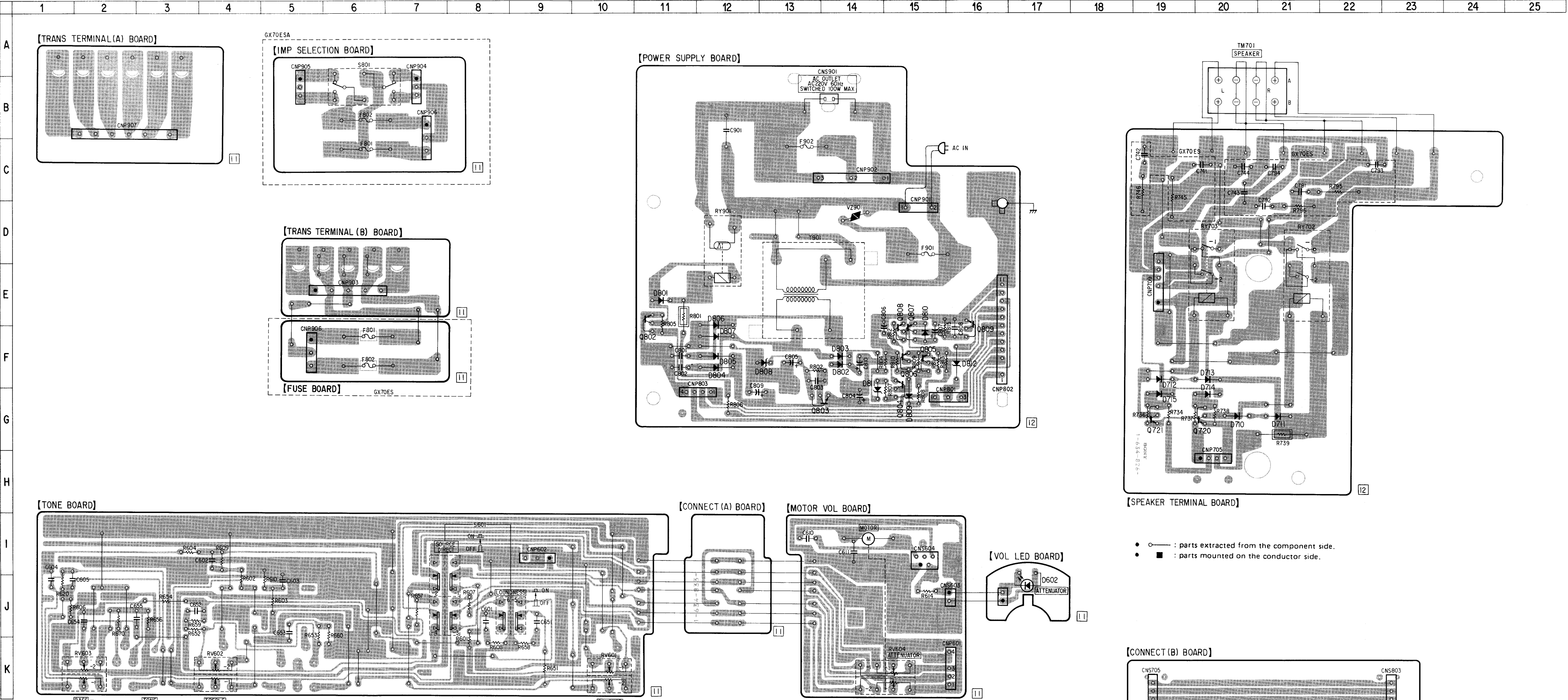




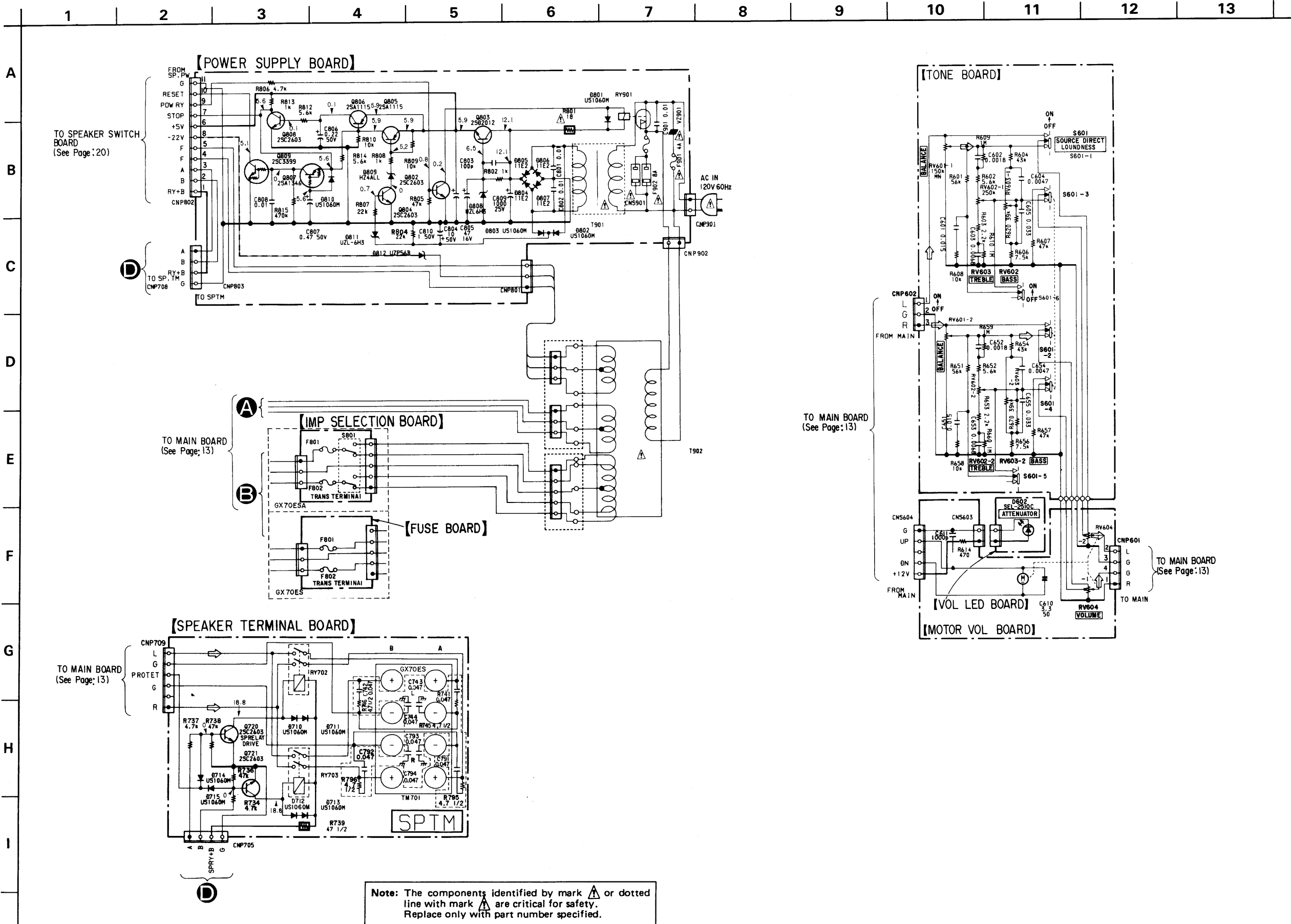
TRANS TERMINAL (B), TRANS TERMINAL (A), INP SELECTION, CONNECT (B), POWER SUPPLY,
SPEAKER TERMINAL, TONE, CONNECT (A), MOTOR, VOL LED BOARD PRINTED WIRING BOARDS

• SEMICONDUCTOR LOCATION

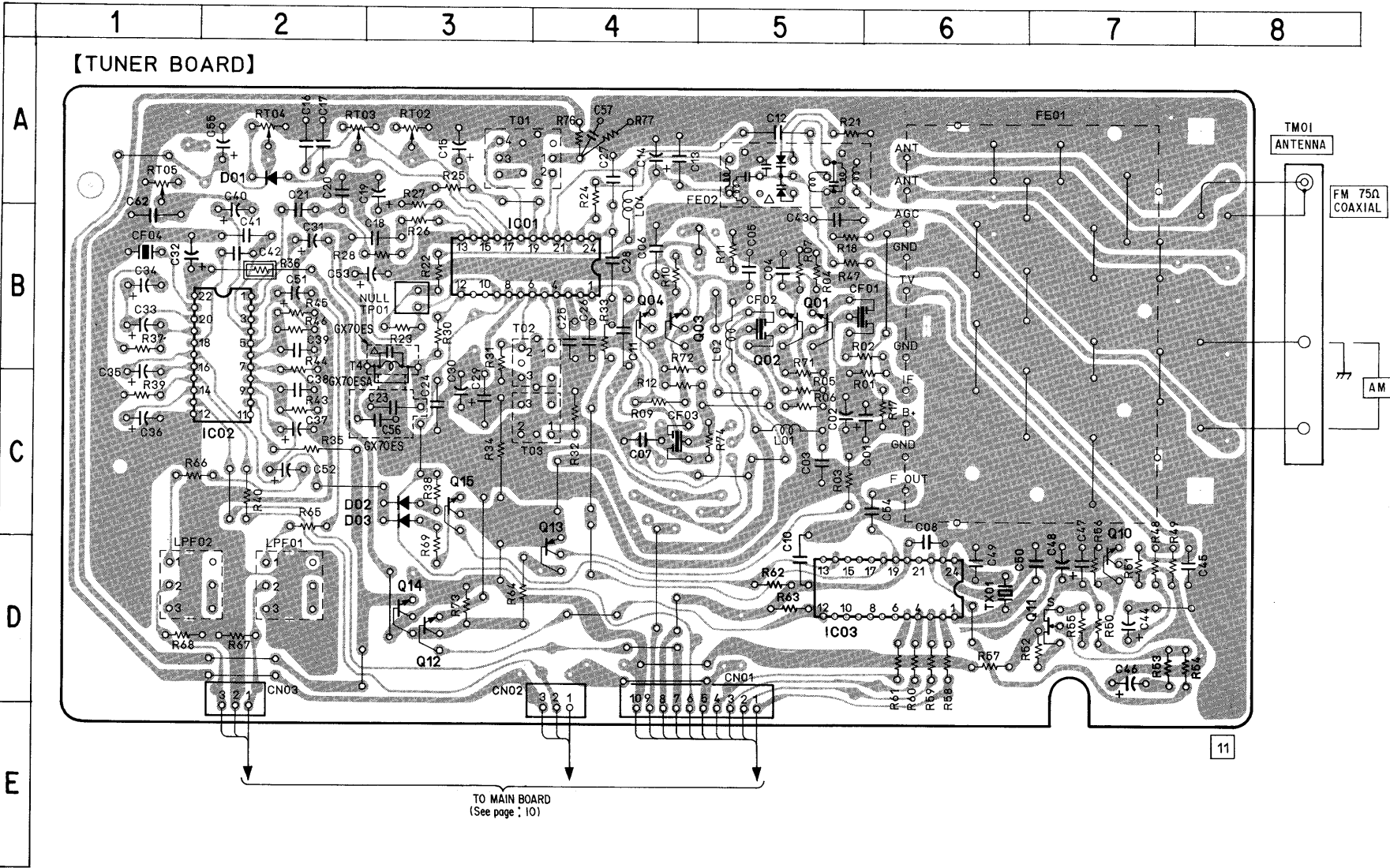
Ref. No.	Location
Q720	G-20
Q721	G-19
Q802	E-11
Q803	F-14
Q804	F-15
Q805	F-15
Q806	F-15
Q807	E-15
Q808	E-15
Q809	E-16
D602	I-17
D710	G-20
D711	G-21
D712	F-19
D713	F-20
D714	F-20
D715	F-19
D801	E-11
D802	F-14
D803	F-14
D804	F-12
D805	F-12
D806	E-12
D807	F-12
D808	F-13
D809	F-15
D810	E-15
D811	F-14
D812	F-16



- : parts extracted from the component side.
- : parts mounted on the conductor side.



TUNER BOARD PRINTED WIRING BOARD



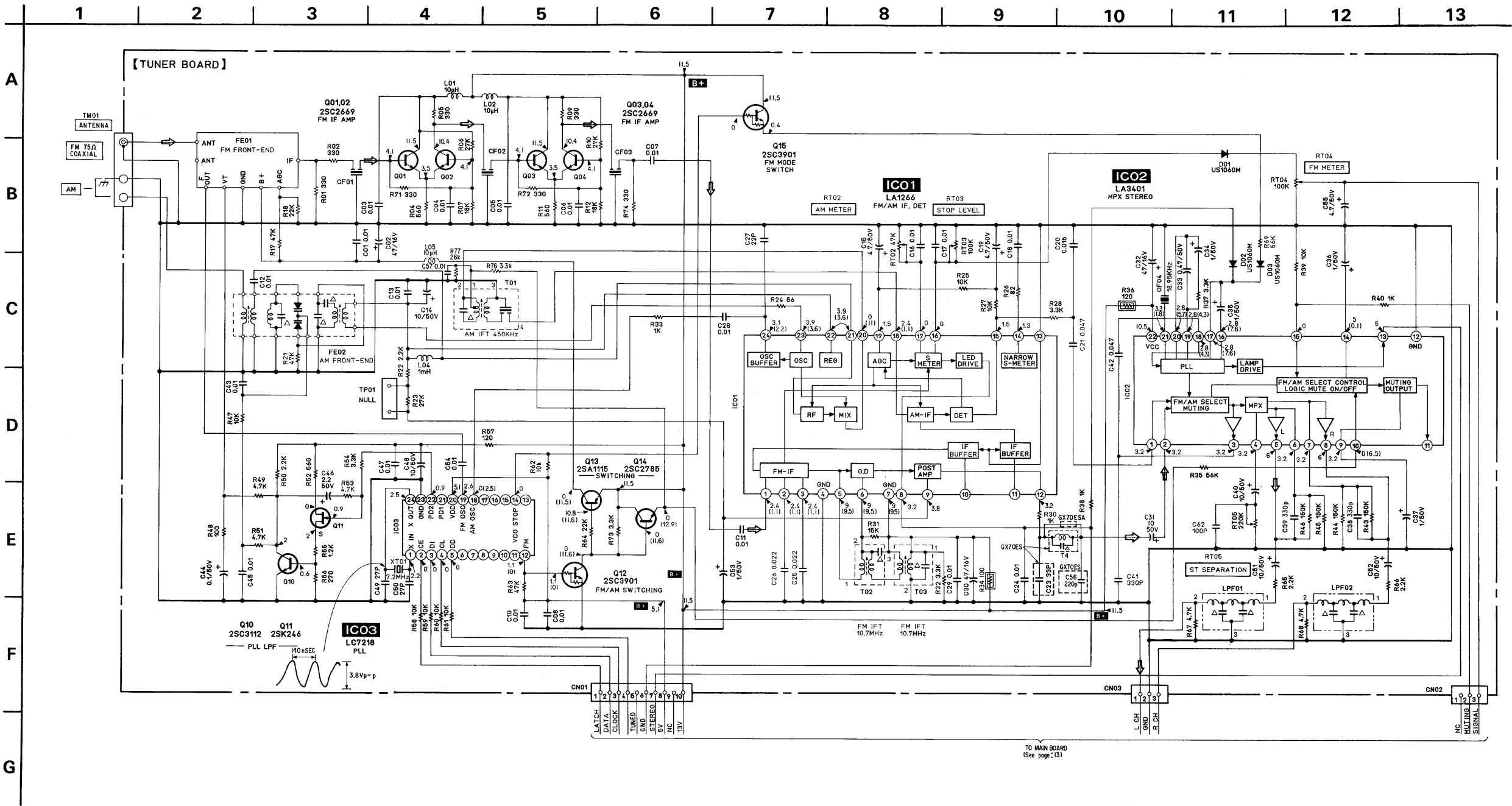
• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
IC01	B-3	Q11	D-7
IC02	B-2	Q12	D-3
IC03	D-6	Q13	D-4
		Q14	D-3
		Q15	C-3
Q01	B-5		
Q02	B-5		
Q03	B-4	D01	A-2
Q04	B-4	D02	C-3
Q10	D-7	D03	C-3

TUNER BOARD SCHEMATIC DIAGRAM

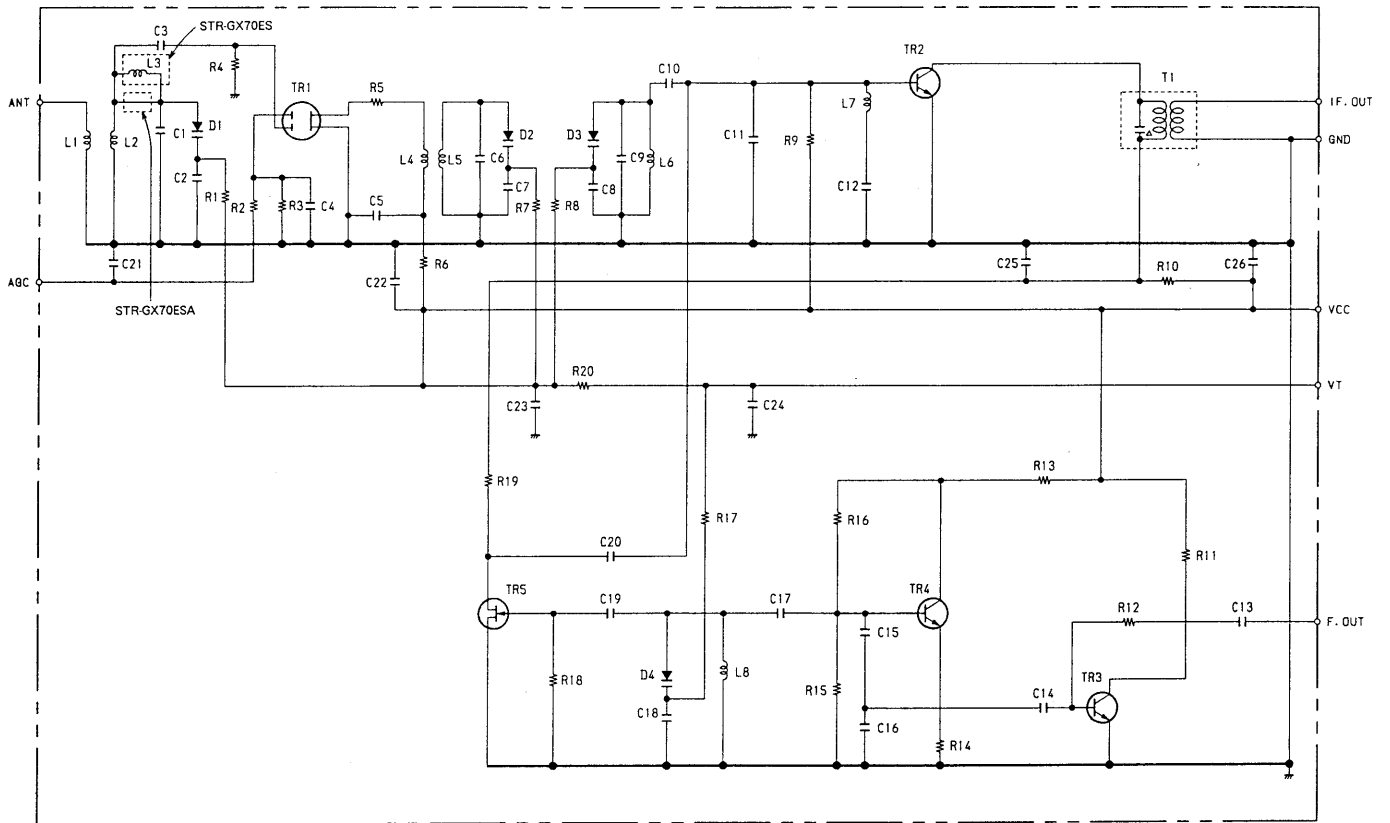
• Refer to page 9 for note on Schematic Diagram.

• Refer to page 32 for IC Block Diagrams.



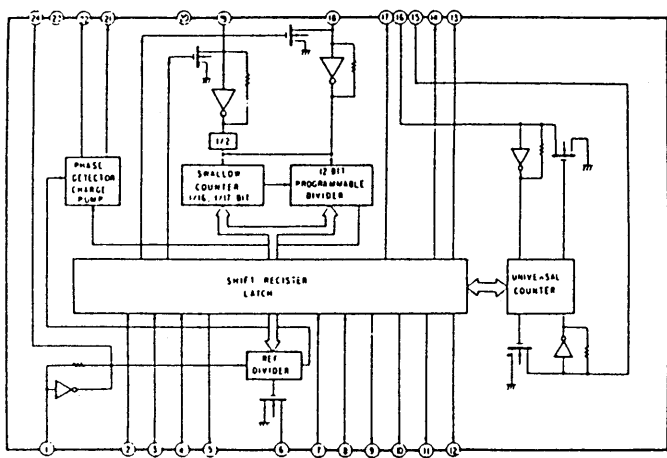
Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

• FM FRONT END (FE01) SCHEMATIC DIAGRAM

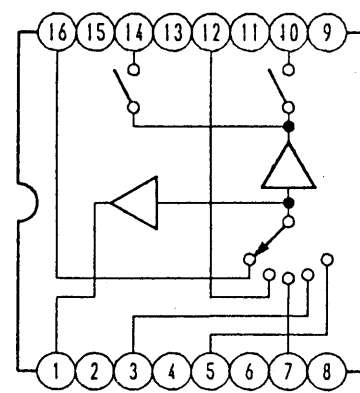


• IC BLOCK DIAGRAMS

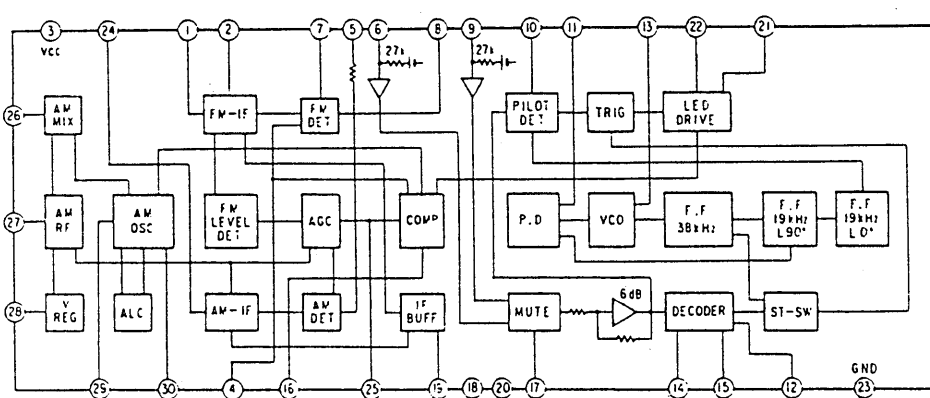
IC81 LC7218



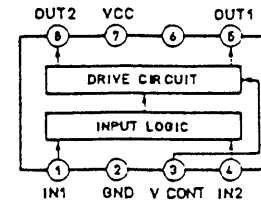
IC201 BA7625



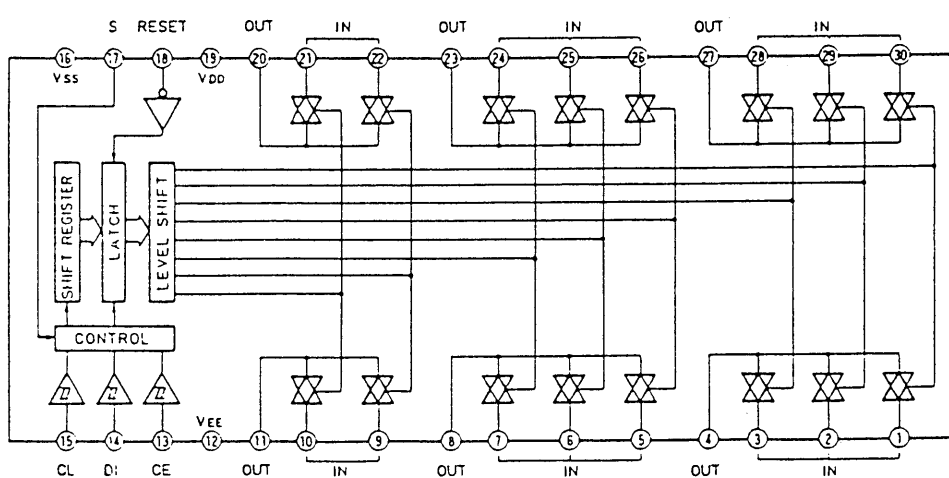
IC301 LA1851N



IC304 LB1639



IC401, IC402 LC7822



3-4. EXPLANATION OF IC301 (μPD75206)

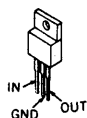
PIN No.	SIGNAL NAME	FUNCTION	I/O	ACTIVE
1	RESET	Micro Computer RESET	I	L
2	T0	FL tube indication (invalid) digit	O	H
3	T1	FL tube indication digit T1	O	H
4	T2	FL tube indication digit T2	O	H
5	T3	FL tube indication digit T3	O	H
6	T4	FL tube indication digit T4	O	H
7	T5	FL tube indication digit T5	O	H
8	T6	FL tube indication digit T6	O	H
9	T7	FL tube indication digit T7	O	H
10	T8	FL tube indication digit T8	O	H
11	T9	FL tube SIGNAL indication digit T9	O	H
12	T10/PH3	DBFB Output	O	H
13	T11/PH2	IF WIDE/NARROW Output	O	H
14	T12/PH1	Adapter Output	O	H
15	T13/PH0	-20dB Muting Output	O	H
16	T14/S11	FL tube indication Segment/Diode S11	O	H
17	T15/S10	FL tube indication Segment/Diode S10	O	H
18	V road	FL tube pulldown power supply	-	-
19	V pre	FL tube driver power supply	-	-
20	S9	FL tube indication Segment/Diode S9	O	H
21	S8	FL tube indication Segment/Key Scan S8	O	H
22	S7	FL tube indication Segment/Key Scan S7	O	H
23	S6	FL tube indication Segment/Key Scan S6	O	H
24	S5	FL tube indication Segment/Key Scan S5	O	H
25	S4	FL tube indication Segment/Key Scan S4	O	H
26	Vdd	Micro Computer power supply	-	-
27	S3	FL tube indication Segment/Key Scan S3	O	H
28	S2	FL tube indication Segment/Key Scan S2	O	H
29	S1	FL tube indication Segment/Key Scan S1	O	H
30	S0	FL tube indication Segment/Key Scan S0	O	H
31	P00/INT4	Signal to cut power supply STOP	I	L
32	P01/SCK	Serial latch for electrical adjustment use SI. LAT	I	L

-Continued on page 34-

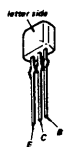
PIN No.	SIGNAL NAME	FUNCTION	I/O	ACTIVE
33	P02/S0	Tuner Auto Stop input ASTP	I	L
34	P03/S1	Tuner Stereo input STEREO	I	L
35	P10/INT0	Remote Control Signal input SIRCS	I	L
36	P11/INT1	Protector input PROTECT	I	L
37	P12/INT2	System Power Key input PKEY	I	L
38	P13/TI0	Adapter Mechanical Switch input AKEY	I	H
39	P20	Surround output SURROUND	O	H
40	P21	Video Control A VCRA	O	H
41	P22	Video Control B VCRB	O	H
42	P23/BUZ	Video Inhibit VCRI	O	H
43	P30	Protector Muting PMUT	O	L
44	P31	Source Direct Output	O	H
45	P32	Standby LED Output STANBY	O	H
46	P33	Tuner Muting TMUTE	O	H
47	P60	PLL/7822 Latch PLAT	O	H
48	P61	PLL/7822/SI Data DATA	I/O	H
49	P62	PLL/7822/SI Clock CLOK	I/O	H
50	P63	IF WIDE/NARROW Display output	O	H
51	P40	Function Muting FMUTE	O	L
52	P41	Motor Volume UP VOL+	O	H
53	P42	Motor Volume DOWN VOL-	O	H
54	P43	Speaker Relay SP. RY	O	H
55	PP0	Power Relay POW. RY	O	H
56	X1	Ceramic Oscillator	-	-
57	X2	Ceramic Oscillator	-	-
58	Vss	Micro Computer GND	-	-
59	XT1	-	-	-
60	XT2	-	-	-
61	P50	P50 Key Scan Input	I	H
62	P51	P51 Key Scan Input	I	H
63	P52	P52 Key Scan Input	I	H
64	P53	P53 Key Scan Input	I	H

3-5. SEMICONDUCTOR LEAD LAYOUTS

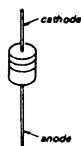
LM78M12



2SA1175-HFE
2SC2785-HFE



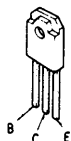
HZS22-2L
HZS6C3L
1SS120
11ES2



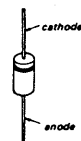
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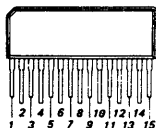
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2SC3855-OY



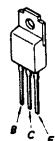
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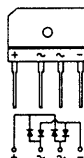
STK3082MK2



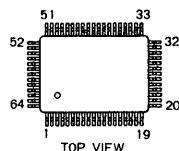
2SA1684-LK
2SC4431-LK



RBV-602-01



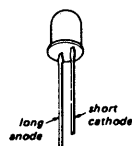
UPD75206G-557-1B



2SA988-F



SEL1810W-C



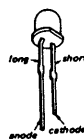
DTA124ES
DTC124ES
DTC143TS
DTC144ES
2SC2603-EF
2SC2669-O
2SC3623A-LK



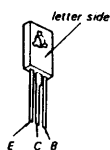
2SC1841-PAFAEA
2SC3112-B



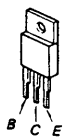
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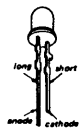
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2SD2012



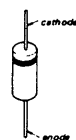
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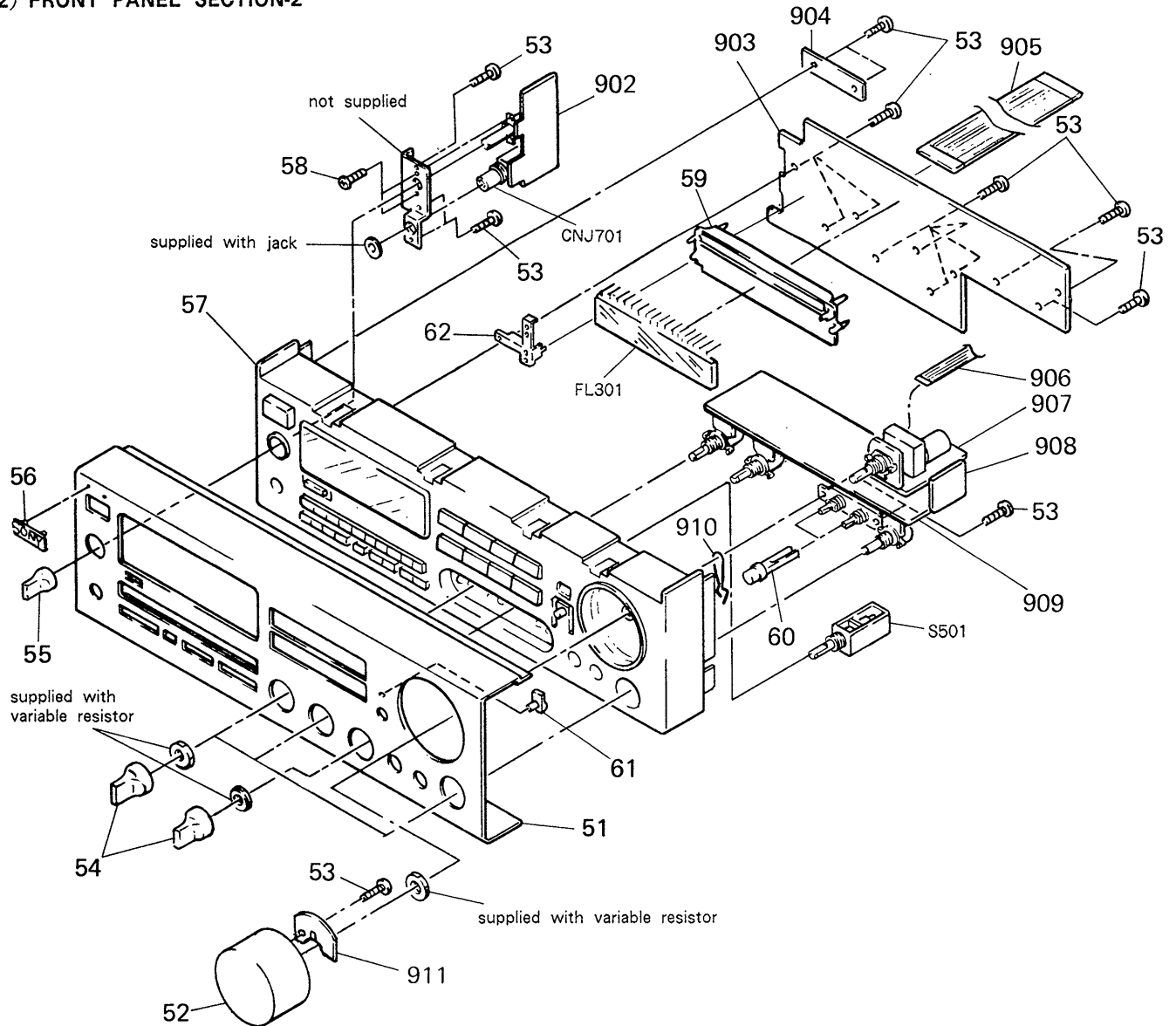
2SK246GR3



UZP-5.6B

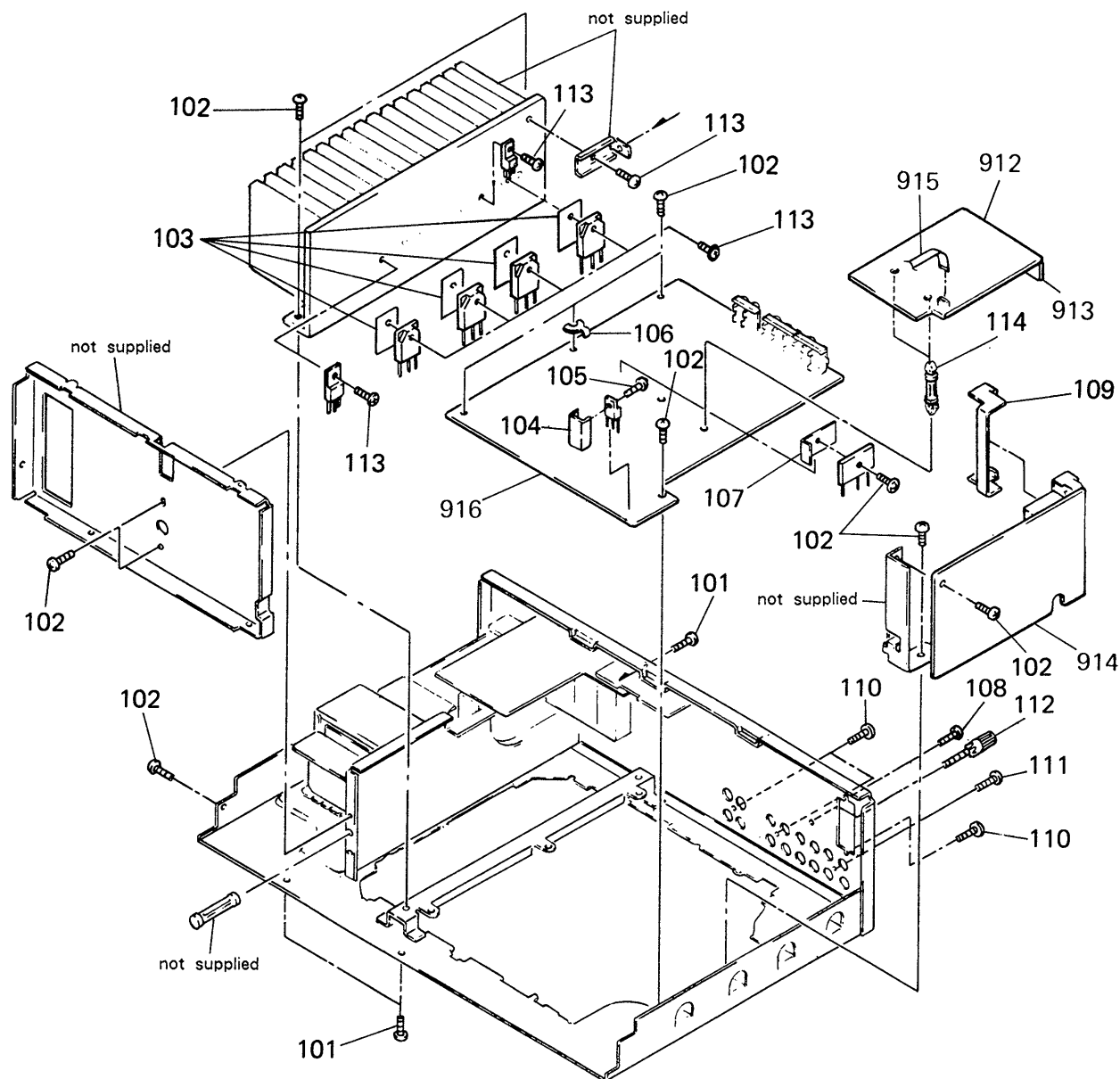


(2) FRONT PANEL SECTION-2



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	4-931-619-32	PANEL, FRONT		902	*1-634-825-11	PC BOARD, SP SW	
52	X-4906-828-1	KNOB (47) ASSY		903	*A-4334-523-A	MOUNTED PCB, DISPLAY	
53	4-928-635-01	SCREW, +BV (2.6X8) TAPPING		904	*1-634-828-11	PC BOARD, P.SW	
54	4-916-745-01	KNOB (DIA.21)		905	1-575-664-11	WIRE, FLAT TYPE (23 CORE)	
55	4-908-097-21	KNOB		906	1-575-662-11	WIRE, FLAT TYPE (5 CORE)	
56	4-908-848-01	EMBLEM, SONY		907	*1-634-831-11	PC BOARD, MOTOR VOL	
57	X-4924-925-1	PANEL (BASE) ASSY		908	*1-634-832-11	PC BOARD, CONNECT (A)	
58	7-682-548-09	SCREW +BVTT 3X8 (S)		909	*1-634-834-11	PC BOARD, TONE	
59	*4-923-103-01	HOLDER, FL TUBE		910	*1-535-624-11	TERMINAL, PIN JACK	
60	4-931-926-01	BUTTON (B)		911	*1-634-824-11	PC BOARD, VOL LED	
61	3-684-018-01	COVER, LAMP, REC		CNJ701	1-569-348-11	JACK, LARGE TYPE (HEADPHONES)	
62	4-931-631-01	HOLDER, LED		FL301	1-519-590-11	INDICATOR TUBE, FLUORESCENT	
				S501	1-572-318-11	SWITCH, ROTARY SLIDE (REMOTE) (REC OUT SELECTOR)	

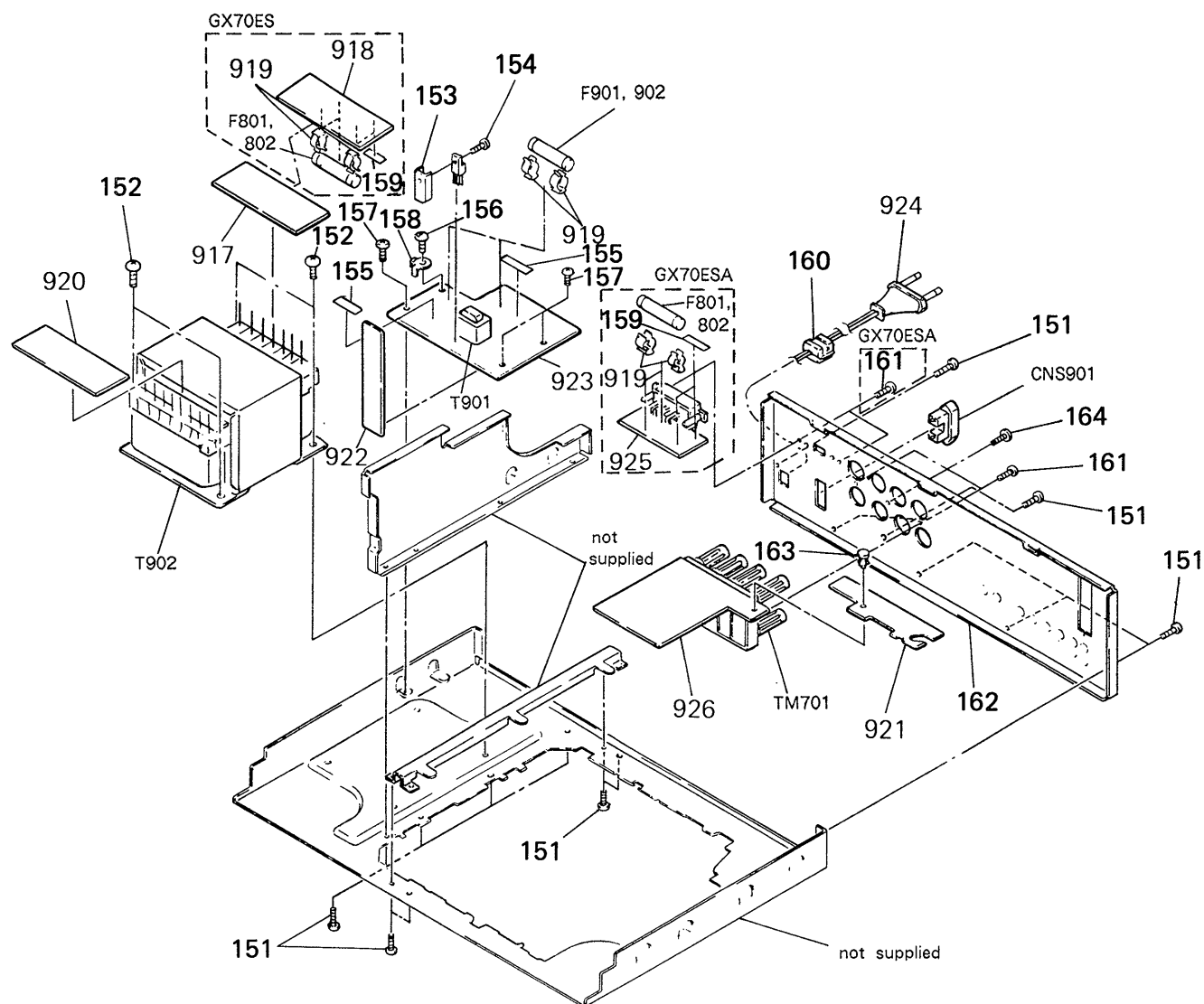
(3) CHASSIS SECTION-1



No.	Part No.	Description	Remarks
101	7-682-548-09	SCREW +BVTT 3X8 (S)	
102	7-682-548-04	SCREW +BVTT 3X8 (S)	
103	4-911-232-01	SHEET, INSULATING	
104	*3-309-144-21	HEAT SINK	
105	7-682-547-04	SCREW +BVTT 3X6 (S)	
106	*4-904-446-01	PLATE, GROUND	
107	*4-931-903-01	HEAT SINK (DI)	
108	4-887-711-11 7-685-647-79	(GX70ES)...SCREW, TERMINAL, CLAW, +BVTP (GX70ESA)...SCREW +BVTP 3X10 TYPE 2 N-S	
109	*4-924-988-11	PLATE (ST), GROUND	
110	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

No.	Part No.	Description	Remarks
111	7-621-849-00	SCREW, TAPPING	
112	3-706-165-00	SCREW	
113	7-682-549-01	SCREW +B 3X10	
114	*3-682-419-21	HOLDER, P.C.B	
912	*1-634-827-11	PC BOARD, REC OUT	
913	*1-634-916-11	PC BOARD, REC OUT CONNECTOR	
914	*A-4341-146-A *A-4341-147-A	(GX70ES)...MOUNTED PCB, TUNER (GX70ESA)...MOUNTED PCB, TUNER	
915	1-575-662-11	WIRE, FLAT TYPE (5 CORE)	
916	*A-4334-513-A *A-4334-514-A	(GX70ESA)...MOUNTED PCB, MAIN (GX70ES)...MOUNTED PCB, MAIN	

(4) CHASSIS SECTION-2



Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151	7-682-548-09	SCREW +BVTT 3X8 (S)		917	*1-634-838-11	PC BOARD, TRANS TERMINAL (B)	
152	7-682-561-04	SCREW +BVTT 4X8 (S)		918	*1-634-837-11	(GX70ES)...PC BOARD, FUSE	
153	*3-309-144-21	HEAT SINK		919	1-533-225-11	HOLDER, FUSE	
154	7-682-547-04	SCREW +BVTT 3X6 (S)		920	*1-634-835-11	PC BOARD, TRANS TERMINAL (A)	
155	3-701-947-15	LABEL (T2.5A), FUSE		921	*1-634-917-11	PC BOARD, WIRE CLAMP	
156	3-703-685-21	SCREW (+BV 3X8)		922	*1-634-833-11	PC BOARD, CONNECT (B)	
157	7-682-548-04	SCREW +BVTT 3X8 (S)		923	*A-4334-533-A	MOUNTED PCB, POWER SUPPLY	
158	*3-346-266-12	PLATE, GROUND		924	 1-574-805-11	CORD, POWER	
159	*3-701-947-19	LABEL (T6.3A), FUSE		925	*1-634-839-11	(GX70ESA)...PC BOARD, IMP SELECTION	
160	*3-703-244-00	BUSHING (2104), CORD		926	*1-634-826-11	PC BOARD, SPEAKER TERMINAL	
161	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S		CNS901	 1-526-794-11	OUTLET, AC (AC OUTLET)	
162	*4-931-608-71	(GX70ESA)...PANEL, BACK		F801	 1-532-325-00	FUSE, TIME-LAG	
	*4-931-608-81	(GX70ES)...PANEL, BACK		F802	 1-532-325-00	FUSE, TIME-LAG	
163	3-703-356-00	RIVET, T TYPE		F901	 1-532-286-00	FUSE, TIME-LAG	
164	7-621-849-00	(GX70ES)...SCREW TAPPING		F902	 1-532-286-00	FUSE, TIME-LAG	
	7-685-647-79	(GX70ESA)...SCREW +BVTP 3X10 TYPE 2 N-S		T901	 1-448-523-11	TRANSFORMER, POWER	
				T902	 1-449-971-11	TRANSFORMER, POWER	
				TM701	1-537-227-11	(GX70ESA)...TERMINAL BOARD (SP)(SPEAKER)	
				TM701	1-537-228-11	(GX70ES)...TERMINAL BOARD (SP)(SPEAKER)	

SECTION 5

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:MF: μ F, PF: μ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORSIn each case, U: μ , for example:UA...: μ A..., UPA...: μ PA...,UPC...: μ PC, UPD...: μ PD...

The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description
901	1-465-420-11	REMOTE COMMANDER (RM-U203)
902	*1-634-825-11	PC BOARD, SP SW
903	*A-4334-523-A	MOUNTED PCB, DISPLAY
904	*1-634-828-11	PC BOARD, P.SW
905	1-575-664-11	WIRE, FLAT TYPE (23 CORE)
906	1-575-662-11	WIRE, FLAT TYPE (5 CORE)
907	*1-634-831-11	PC BOARD, MOTOR VOL
908	*1-634-832-11	PC BOARD, CONNECT (A)
909	*1-634-834-11	PC BOARD, TONE
910	*1-535-624-11	TERMINAL, PIN JACK
911	*1-634-824-11	PC BOARD, VOL LED
912	*1-634-827-11	PC BOARD, REC OUT
913	*1-634-916-11	PC BOARD, REC OUT CONNECTOR
914	*A-4341-146-A	(GX70ES)...MOUNTED PCB, TUNER
	*A-4341-147-A	(GX70ESA)...MOUNTED PCB, TUNER
915	1-575-662-11	WIRE, FLAT TYPE (5 CORE)
916	*A-4334-513-A	(GX70ESA)...MOUNTED PCB, MAIN
	*A-4334-514-A	(GX70ES)...MOUNTED PCB, MAIN
917	*1-634-838-11	PC BOARD, TRANS TERMINAL (B)
918	*1-634-837-11	(GX70ES)...PC BOARD, FUSE
919	1-533-225-11	HOLDER, FUSE
920	*1-634-835-11	PC BOARD, TRANS TERMINAL (A)
921	*1-634-917-11	PC BOARD, WIRE CLAMP
922	*1-634-833-11	PC BOARD, CONNECT (B)
923	*A-4334-533-A	MOUNTED PCB, POWER SUPPLY
924	△1-574-805-11	CORD, POWER
925	*1-634-839-11	(GX70ESA)...PC BOARD, IMP SELECTION
926	*1-634-826-11	PC BOARD, SPEAKER TERMINAL
C01	1-161-379-00	CERAMIC 0.01MF 30% 16V
C02	1-124-477-11	ELECT 47MF 20% 16V
C03	1-161-379-00	CERAMIC 0.01MF 30% 16V
C04	1-161-379-00	CERAMIC 0.01MF 30% 16V
C05	1-161-379-00	CERAMIC 0.01MF 30% 16V
C06	1-161-379-00	CERAMIC 0.01MF 30% 16V
C07	1-161-379-00	CERAMIC 0.01MF 30% 16V
C08	1-161-379-00	CERAMIC 0.01MF 30% 16V
C10	1-161-379-00	CERAMIC 0.01MF 30% 16V
C11	1-161-379-00	CERAMIC 0.01MF 30% 16V
C12	1-161-379-00	CERAMIC 0.01MF 30% 16V
C13	1-161-379-00	CERAMIC 0.01MF 30% 16V
C14	1-123-875-11	ELECT 10MF 20% 50V
C15	1-124-927-11	ELECT 4.7MF 20% 50V
C16	1-161-379-00	CERAMIC 0.01MF 30% 16V

Ref.No.	Part No.	Description
C17	1-161-379-00	CERAMIC 0.01MF 30% 16V
C18	1-161-379-00	CERAMIC 0.01MF 30% 16V
C19	1-124-927-11	ELECT 4.7MF 20% 50V
C20	1-136-155-00	FILM 0.015MF 5% 50V
C21	1-136-161-00	FILM 0.047MF 5% 50V
C23	1-162-211-31	(GX70ESA)...CERAMIC 33PF 5% 50V
C23	1-162-290-31	(GX70ES)...CERAMIC 470PF 10% 50V
C24	1-161-379-00	CERAMIC 0.01MF 30% 16V
C25	1-101-005-00	CERAMIC 0.022MF 50V
C26	1-101-005-00	CERAMIC 0.022MF 50V
C27	1-162-207-31	CERAMIC 22PF 5% 50V
C28	1-161-379-00	CERAMIC 0.01MF 30% 16V
C29	1-161-379-00	CERAMIC 0.01MF 30% 16V
C30	1-124-477-11	ELECT 47MF 20% 16V
C31	1-123-875-11	ELECT 10MF 20% 50V
C32	1-124-477-11	ELECT 47MF 20% 16V
C33	1-124-902-00	ELECT 0.47MF 20% 50V
C34	1-124-791-11	ELECT 1MF 20% 50V
C35	1-124-791-11	ELECT 1MF 20% 50V
C36	1-124-791-11	ELECT 1MF 20% 50V
C37	1-124-791-11	ELECT 1MF 20% 50V
C38	1-104-290-11	POLYSTYRENE 330PF 5% 50V
C39	1-104-290-11	POLYSTYRENE 330PF 5% 50V
C40	1-123-875-11	ELECT 10MF 20% 50V
C41	1-162-288-31	CERAMIC 330PF 10% 50V
C42	1-136-161-00	FILM 0.047MF 5% 50V
C43	1-161-379-00	CERAMIC 0.01MF 30% 16V
C44	1-124-463-00	ELECT 0.1MF 20% 50V
C45	1-161-379-00	CERAMIC 0.01MF 30% 16V
C46	1-124-925-11	ELECT 2.2MF 20% 50V
C47	1-161-379-00	CERAMIC 0.01MF 30% 16V
C48	1-123-875-11	ELECT 10MF 20% 50V
C49	1-102-961-00	CERAMIC 27PF 5% 50V
C50	1-102-961-00	CERAMIC 27PF 5% 50V
C51	1-123-875-11	ELECT 10MF 20% 50V
C52	1-123-875-11	ELECT 10MF 20% 50V
C53	1-124-791-11	ELECT 1MF 20% 50V
C54	1-161-379-00	CERAMIC 0.01MF 30% 16V
C55	1-124-927-11	ELECT 4.7MF 20% 50V
C56	1-162-286-31	(GX70ES)...CERAMIC 220PF 10% 50V
C57	1-161-379-00	CERAMIC 0.01MF 30% 16V
C62	1-162-282-31	CERAMIC 100PF 10% 50V
C301	1-124-438-00	ELECT 1MF 20% 50V
C302	1-164-097-11	CERAMIC 0.022MF 50V

Ref.No.	Part No.	Description							
C303	1-125-486-11	DOUBLE LAYERS	0.22F		5.5V				
C304	1-136-165-00	FILM	0.1MF	5%	50V				
C305	1-123-875-11	ELECT	10MF	20%	50V				
C306	1-124-438-00	ELECT	1MF	20%	50V				
C307	1-136-169-00	FILM	0.22MF	5%	50V				
C308	1-136-153-00	FILM	0.01MF	5%	50V				
C309	1-164-097-11	CERAMIC	0.022MF		50V				
C310	1-164-097-11	CERAMIC	0.022MF		50V				
C311	1-164-097-11	CERAMIC	0.022MF		50V				
C312	1-124-438-00	ELECT	1MF	20%	50V				
C313	1-164-159-11	CERAMIC	0.1MF		50V				
C314	1-164-159-11	CERAMIC	0.1MF		50V				
C401	1-162-282-31	(GX70ESA)...CERAMIC	100PF	10%	50V				
C401	1-162-284-31	(GX70ES)...CERAMIC	150PF	10%	50V				
C402	1-126-163-11	ELECT	4.7MF	20%	50V				
C403	1-124-963-11	ELECT	33MF	20%	16V				
C404	1-130-480-00	MYLAR	0.0056MF	5%	50V				
C405	1-106-347-00	MYLAR	0.0015MF	5%	50V				
C406	1-124-438-00	ELECT	1MF	20%	50V				
C407	1-124-589-11	ELECT	47MF	20%	16V				
C408	1-124-589-11	ELECT	47MF	20%	16V				
C409	1-164-097-11	CERAMIC	0.022MF		50V				
C410	1-164-097-11	CERAMIC	0.022MF		50V				
C412	1-123-875-11	ELECT	10MF	20%	50V				
C413	1-123-875-11	ELECT	10MF	20%	50V				
C414	1-124-925-11	ELECT	2.2MF	20%	50V				
C416	1-164-098-11	(GX70ESA)...CERAMIC	0.047MF		12V				
C420	1-162-286-31	(GX70ES)...CERAMIC	220PF	10%	50V				
C421	1-162-286-31	(GX70ES)...CERAMIC	220PF	10%	50V				
C422	1-162-286-31	(GX70ES)...CERAMIC	220PF	10%	50V				
C423	1-162-286-31	(GX70ES)...CERAMIC	220PF	10%	50V				
C424	1-162-286-31	(GX70ES)...CERAMIC	220PF	10%	50V				
C425	1-162-286-31	(GX70ES)...CERAMIC	220PF	10%	50V				
C426	1-162-286-31	(GX70ES)...CERAMIC	220PF	10%	50V				
C428	1-162-284-31	(GX70ES)...CERAMIC	150PF	10%	50V				
C429	1-164-077-11	(GX70ES)...CERAMIC	220PF	10%	50V				
C430	1-162-286-31	(GX70ES)...CERAMIC	220PF	10%	50V				
C451	1-162-282-31	(GX70ESA)...CERAMIC	100PF	10%	50V				
C451	1-162-284-31	(GX70ES)...CERAMIC	150PF	10%	50V				
C452	1-126-163-11	ELECT	4.7MF	20%	50V				
C453	1-124-963-11	ELECT	33MF	20%	16V				
C454	1-130-480-00	MYLAR	0.0056MF	5%	50V				
C455	1-106-347-00	MYLAR	0.0015MF	5%	50V				
C456	1-124-438-00	ELECT	1MF	20%	50V				
C462	1-123-875-11	ELECT	10MF	20%	50V				
C464	1-124-925-11	ELECT	2.2MF	20%	50V				
C470	1-162-286-31	(GX70ES)...CERAMIC	220PF	10%	50V				
C471	1-162-286-31	(GX70ES)...CERAMIC	220PF	10%	50V				
C472	1-162-286-31	(GX70ES)...CERAMIC	220PF	10%	50V				
C473	1-162-286-31	(GX70ES)...CERAMIC	220PF	10%	50V				
C474	1-162-286-31	(GX70ES)...CERAMIC	220PF	10%	50V				
C475	1-162-286-31	(GX70ES)...CERAMIC	220PF	10%	50V				
C476	1-162-286-31	(GX70ES)...CERAMIC	220PF	10%	50V				
C478	1-162-284-31	(GX70ES)...CERAMIC	150PF	10%	50V				
C479	1-164-077-11	(GX70ES)...CERAMIC	220PF	10%	50V				
C480	1-162-286-31	(GX70ES)...CERAMIC	220PF	10%	50V				
C601	1-130-485-00	MYLAR	0.015MF	5%	50V				
C602	1-130-474-00	MYLAR	0.0018MF	5%	50V				
C603	1-106-363-00	MYLAR	0.0068MF	5%	50V				
C604	1-106-359-00	MYLAR	0.0047MF	5%	50V				
C605	1-130-489-00	MYLAR	0.033MF	5%	50V				
C610	1-124-273-00	ELECT	3.3MF	20%	50V				
C611	1-162-294-31	CERAMIC	0.001MF	10%	50V				
C651	1-130-485-00	MYLAR	0.015MF	5%	50V				
C652	1-130-474-00	MYLAR	0.0018MF	5%	50V				
C653	1-106-363-00	MYLAR	0.0068MF	5%	50V				
C654	1-106-359-00	MYLAR	0.0047MF	5%	50V				
C655	1-130-489-00	MYLAR	0.033MF	5%	50V				
C701	1-164-077-11	CERAMIC	220PF	10%	50V				
C702	1-124-927-11	ELECT	4.7MF	20%	50V				
C703	1-102-989-00	CERAMIC	68PF	5%	500V				
C704	1-124-122-11	ELECT	100MF	20%	50V				
C705	1-164-039-11	CERAMIC	3PF		0.25PF 50V				
C706	1-124-927-11	ELECT	4.7MF	20%	63V				
C708	1-102-316-00	CERAMIC	15PF	5%	500V				
C709	1-124-910-11	ELECT	47MF	20%	50V				
C710	1-102-233-00	CERAMIC	33PF	10%	500V				
C711	1-102-233-00	CERAMIC	33PF	10%	500V				
C712	1-136-165-00	FILM	0.1MF	5%	50V				
C713	1-136-165-00	FILM	0.1MF	5%	50V				
C714	1-136-165-00	FILM	0.1MF	5%	50V				
C715	1-124-472-11	ELECT	470MF	20%	6.3V				
C716	1-136-157-00	(GX70ES)...FILM	0.022MF	5%	50V				
C716	1-136-161-00	(GX70ESA)...FILM	0.047MF	5%	50V				
C717	1-136-161-00	(GX70ESA)...FILM	0.047MF	5%	50V				
C718	1-124-463-00	(GX70ES)...ELECT	0.1MF	20%	50V				
C721	1-136-159-00	(GX70ES)...FILM	0.033MF	5%	50V				
C722	1-136-159-00	(GX70ES)...FILM	0.033MF	5%	50V				
C741	1-130-491-00	(GX70ES)...TEREPHTHALATE	0.047MF	5%	50V				
C742	1-130-491-00	(GX70ES)...TEREPHTHALATE	0.047MF	5%	50V				
C743	1-130-491-00	(GX70ES)...TEREPHTHALATE	0.047MF	5%	50V				
C744	1-130-491-00	(GX70ES)...TEREPHTHALATE	0.047MF	5%	50V				
C751	1-164-077-11	CERAMIC	220PF	10%	50V				
C752	1-124-927-11	ELECT	4.7MF	20%	50V				
C753	1-102-989-00	CERAMIC	68PF	5%	500V				
C754	1-124-122-11	ELECT	100MF	20%	50V				
C755	1-164-039-11	CERAMIC	3PF		0.25PF 50V				
C756	1-124-927-11	ELECT	4.7MF	20%	63V				
C758	1-102-316-00	CERAMIC	15PF	5%	500V				
C759	1-124-910-11	ELECT	47MF	20%	50V				
C760	1-102-233-00	CERAMIC	33PF	10%	500V				
C761	1-102-233-00	CERAMIC	33PF	10%	500V				
C762	1-136-165-00	FILM	0.1MF	5%	50V				
C763	1-136-165-00	FILM	0.1MF	5%	50V				
C766	1-136-157-00	(GX70ES)...FILM	0.022MF	5%	50V				
C766	1-136-161-00	(GX70ESA)...FILM	0.047MF	5%	50V				
C767	1-136-161-00	(GX70ESA)...FILM	0.047MF	5%	50V				
C771	1-136-159-00	(GX70ES)...FILM	0.033MF	5%	50V				
C772	1-136-159-00	(GX70ES)...FILM	0.033MF	5%	50V				
C791	1-130-491-00	(GX70ES)...TEREPHTHALATE	0.047MF	5%	50V				
C792	1-130-491-00	(GX70ES)...TEREPHTHALATE	0.047MF	5%	50V				
C793	1-130-491-00	(GX70ES)...TEREPHTHALATE	0.047MF	5%	50V				

Ref.No.	Part No.	Description
C794	1-130-491-00	(GX70ES)...TEREPHTHALATE 0.047MF 5% 50V
C801	1-101-004-00	CERAMIC 0.01MF 50V
C802	1-101-004-00	CERAMIC 0.01MF 50V
C803	1-164-073-11	CERAMIC 100PF 10% 50V
C804	1-123-875-11	ELECT 10MF 20% 50V
C805	1-124-477-11	ELECT 47MF 20% 16V
C806	1-124-464-11	ELECT 0.22MF 20% 50V
C807	1-124-902-00	ELECT 0.47MF 20% 50V
C808	1-101-004-00	CERAMIC 0.01MF 50V
C809	1-124-557-11	ELECT 1000MF 20% 25V
C810	1-124-791-11	ELECT 1MF 20% 50V
C820	1-123-875-11	ELECT 10MF 20% 50V
C821	1-123-875-11	ELECT 10MF 20% 50V
C822	1-123-875-11	(GX70ES)...ELECT 10MF 20% 50V
C822	1-124-915-11	(GX70ESA)...ELECT 10MF 20% 63V
C824	1-126-105-11	ELECT 1000MF 20% 35V
C825	1-126-104-11	ELECT 470MF 20% 35V
C826	1-124-477-11	ELECT 47MF 20% 16V
C827	1-124-477-11	ELECT 47MF 20% 16V
C828	1-161-379-00	CERAMIC 0.01MF 30% 16V
C829	1-161-379-00	CERAMIC 0.01MF 30% 16V
C830	1-102-394-11	CERAMIC 0.01MF 250V
C831	1-102-394-11	CERAMIC 0.01MF 250V
C832	1-102-394-11	CERAMIC 0.01MF 250V
C833	1-102-394-11	CERAMIC 0.01MF 250V
C834	1-124-637-11	(GX70ES)...ELECT 1000MF 20% 50V
C834	1-124-922-11	(GX70ESA)...ELECT 1000MF 20% 63V
C835	1-124-637-11	(GX70ES)...ELECT 1000MF 20% 50V
C835	1-124-922-11	(GX70ESA)...ELECT 1000MF 20% 63V
C836	1-125-615-11	ELECT 10000MF 20% 56V
C837	1-125-615-11	ELECT 10000MF 20% 56V
C838	1-164-097-11	(GX70ES)...CERAMIC 0.022MF 50V
C839	1-164-097-11	(GX70ES)...CERAMIC 0.022MF 50V
C840	1-164-096-11	CERAMIC 0.01MF 50V
C841	1-164-096-11	CERAMIC 0.01MF 50V
C842	1-164-097-11	(GX70ES)...CERAMIC 0.022MF 50V
C843	1-164-097-11	(GX70ES)...CERAMIC 0.022MF 50V
C901	1-161-744-00	CERAMIC 0.01MF 400V
CF01	1-567-389-11	FILTER, CERAMIC
CF02	1-567-389-11	FILTER, CERAMIC
CF03	1-567-389-11	FILTER, CERAMIC
CF04	1-567-250-11	OSCILLATOR, CERAMIC
CF301	1-577-101-11	VIBRATOR, CERAMIC
CN1	*1-569-395-11	PIN, CONNECTOR (PC BOARD) 10P
CN2	*1-569-388-11	PIN, CONNECTOR (PC BOARD) 3P
CN3	*1-569-388-11	PIN, CONNECTOR (PC BOARD) 3P
CNJ401	1-565-320-11	JACK, PIN 6P (PHONO/CD/DAT)
CNJ402	1-565-320-11	JACK, PIN 6P (TAPE/DAT)
CNJ403	1-565-258-11	JACK, PIN 4P (VIDEO)
CNJ701	1-569-348-11	JACK, LARGE TYPE (HEADPHONES)
CNP301	*1-565-295-11	PLUG, CONNECTOR 4P
CNP302	1-506-906-11	PIN, CONNECTOR 5P
CNP303	1-506-906-11	PIN, CONNECTOR 5P
CNP401	*1-569-507-11	PIN, CONNECTOR 12P
CNP402	*1-569-504-11	PIN, CONNECTOR 9P
CNP701	*1-564-507-11	PLUG, CONNECTOR 4P

Ref.No.	Part No.	Description
CNP702	*1-564-507-11	PLUG, CONNECTOR 4P
CNP703	*1-564-506-11	PLUG, CONNECTOR 3P
CNP705	*1-569-396-11	PIN, CONNECTOR 4P
CNP706A	*1-535-116-00	TERMINAL
CNP706B	*1-564-508-11	PLUG, CONNECTOR 5P
CNP707	*1-564-509-11	PLUG, CONNECTOR 6P
CNP708	*1-560-063-00	PIN, CONNECTOR 5P
CNP801	*1-564-104-00	PIN, CONNECTOR 3P
CNP803	*1-569-396-11	PIN, CONNECTOR 4P
CNP901	*1-564-321-00	PIN, CONNECTOR 2P
CNP902	*1-535-140-00	BASE POST 22MM (10MM PITCH) 3P
CNP906	*1-564-104-00	PIN, CONNECTOR 3P
CNP908	*1-564-104-00	PIN, CONNECTOR 3P
CNP909	*1-560-061-00	PIN, CONNECTOR 3P
CNP910	*1-560-061-00	PIN, CONNECTOR 3P
CNP911	*1-560-061-00	PIN, CONNECTOR 3P
CNS001	*1-569-387-11	SOCKET,CONNECTOR (PC BOARD)10P
CNS002	*1-569-380-11	SOCKET,CONNECTOR (PC BOARD) 3P
CNS003	*1-569-380-11	SOCKET,CONNECTOR (PC BOARD) 3P
CNS301	*1-565-480-11	CONNECTOR, BOARD TO BOARD 4P
CNS304	*1-568-865-11	SOCKET, CONNECTOR 23P
CNS305	*1-568-839-11	SOCKET, CONNECTOR 23P
CNS401	*1-569-498-11	SOCKET, CONNECTOR 12P
CNS402	*1-569-495-11	SOCKET, CONNECTOR 9P
CNS403	*1-568-824-11	SOCKET, CONNECTOR 5P
CNS404	*1-568-824-11	SOCKET, CONNECTOR 5P
CNS603	*1-564-505-11	PLUG, CONNECTOR 2P
CNS604	*1-568-824-11	SOCKET, CONNECTOR 5P
CNS704	*1-568-824-11	SOCKET, CONNECTOR 5P
CNS705	*1-569-397-11	SOCKET, CONNECTOR 4P
CNS803	*1-569-397-11	SOCKET, CONNECTOR 4P
CNS901	*1-526-794-11	OUTLET, AC (AC OUTLET)
D01	8-719-912-20	DIODE 1SS120
D02	8-719-912-20	DIODE 1SS120
D03	8-719-912-20	DIODE 1SS120
D301	8-719-912-20	DIODE 1SS120
D302	8-719-914-11	DIODE HZ4ALL
D303	8-719-912-20	DIODE 1SS120
D304	8-719-900-19	LED SLR-34UW5 (STANDBY)
D305	8-719-912-20	DIODE 1SS120
D306	8-719-912-20	DIODE 1SS120
D307	8-719-912-20	DIODE 1SS120
D308	8-719-912-20	DIODE 1SS120
D309	8-719-912-20	DIODE 1SS120
D310	8-719-912-20	DIODE 1SS120
D311	8-719-912-20	DIODE 1SS120
D312	8-719-912-20	DIODE 1SS120
D313	8-719-912-20	DIODE 1SS120
D314	8-719-912-20	DIODE 1SS120
D317	8-719-310-78	LED SEL1810W-C (MUTING -20dB)
D319	8-719-912-20	DIODE 1SS120
D321	8-719-912-20	DIODE 1SS120
D322	8-719-912-20	DIODE 1SS120
D327	8-719-912-20	DIODE 1SS120
D328	8-719-912-20	DIODE 1SS120
D330	8-719-912-20	DIODE 1SS120

Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description
D331	8-719-912-20	DIODE 1SS120
D602	8-719-303-00	LED SEL2510C (ATTENUATOR)
D701	8-719-912-20	DIODE 1SS120
D702	8-719-912-20	DIODE 1SS120
D703	8-719-912-20	DIODE 1SS120
D704	8-719-912-20	DIODE 1SS120
D705	8-719-912-20	DIODE 1SS120
D710	8-719-912-20	DIODE 1SS120
D711	8-719-912-20	DIODE 1SS120
D712	8-719-912-20	DIODE 1SS120
D713	8-719-912-20	DIODE 1SS120
D714	8-719-912-20	DIODE 1SS120
D715	8-719-912-20	DIODE 1SS120
D720	8-719-912-20	DIODE 1SS120
D721	8-719-912-20	DIODE 1SS120
D751	8-719-912-20	DIODE 1SS120
D752	8-719-912-20	DIODE 1SS120
D753	8-719-912-20	DIODE 1SS120
D801	8-719-912-20	DIODE 1SS120
D802	8-719-912-20	DIODE 1SS120
D803	8-719-912-20	DIODE 1SS120
D804	8-719-200-82	DIODE 11ES2
D805	8-719-200-82	DIODE 11ES2
D806	8-719-200-82	DIODE 11ES2
D807	8-719-200-82	DIODE 11ES2
D808	8-719-933-41	DIODE HZS6C3L
D809	8-719-914-11	DIODE HZ4ALL
D810	8-719-912-20	DIODE 1SS120
D811	8-719-933-41	DIODE HZS6C3L
D812	8-719-014-66	DIODE UZP-5.6B
D820	8-719-934-00	DIODE HZS22-2L
D822	8-719-200-82	DIODE 11ES2
D823	8-719-200-82	DIODE 11ES2
D824	8-719-200-82	DIODE 11ES2
D825	8-719-200-82	DIODE 11ES2
D826	8-719-200-82	DIODE 11ES2
D827	8-719-200-82	DIODE 11ES2
D828	8-719-200-82	DIODE 11ES2
D829	8-719-200-82	DIODE 11ES2
D830	8-719-302-38	DIODE RBV-602-01
F801	△.1-532-325-00	FUSE, TIME-LAG
F802	△.1-532-325-00	FUSE, TIME-LAG
F901	△.1-532-286-00	FUSE, TIME-LAG
F902	△.1-532-286-00	FUSE, TIME-LAG
FE01	1-463-857-11	(GX70ES)...FRONT END (FM)
FE01	1-465-219-11	(GX70ESA)...FRONT END (FM)
FE02	1-236-461-11	ENCAPSULATED COMPONENT
FL301	1-519-590-11	INDICATOR TUBE, FLUORESCENT
IC01	8-759-804-55	IC LA1266
IC02	8-759-801-80	IC LA3401
IC03	8-759-820-91	IC LC7218
IC301	8-759-149-47	IC UPD75206G-557-1B
IC302	8-759-801-57	IC LB1494
IC303	8-749-920-83	IC GP1U52XB
IC304	8-759-820-62	IC LB1639
IC401	8-759-805-14	IC LC7822
IC403	8-759-112-93	IC UPC4570HA-1

Ref.No.	Part No.	Description
IC404	8-759-710-73	IC NJM4580L
IC406	8-759-710-73	IC NJM4580L
IC407	8-759-710-73	IC NJM4580L
IC408	8-759-710-73	IC NJM4580L
IC409	8-759-710-73	IC NJM4580L
IC410	8-759-710-73	IC NJM4580L
IC411	8-759-710-73	IC NJM4580L
IC701	8-749-921-61	IC STK3082MK3
IC802	8-759-501-47	IC LM78M12
IC803	8-759-604-45	IC M5F79M12L
L01	1-410-509-11	INDUCTOR 10UH
L02	1-410-509-11	INDUCTOR 10UH
L04	1-410-171-11	INDUCTOR 1MMH
L05	1-410-521-11	INDUCTOR 100UH
L301	1-410-509-11	INDUCTOR 10UH
L701	*1-420-872-00	COIL, AIR CORE
L751	*1-420-872-00	COIL, AIR CORE
LPF01	1-235-164-00	FILTER, LOW PASS
LPF02	1-235-164-00	FILTER, LOW PASS
Q01	8-729-266-92	TRANSISTOR 2SC2669-0
Q02	8-729-266-92	TRANSISTOR 2SC2669-0
Q03	8-729-266-92	TRANSISTOR 2SC2669-0
Q04	8-729-266-92	TRANSISTOR 2SC2669-0
Q10	8-729-201-84	TRANSISTOR 2SC3112-B
Q11	8-729-202-67	TRANSISTOR 2SK246GR3
Q12	8-729-900-74	TRANSISTOR DTC143TS
Q13	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q14	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q15	8-729-900-74	TRANSISTOR DTC143TS
Q301	8-729-900-36	TRANSISTOR DTC124ES
Q302	8-729-900-36	TRANSISTOR DTC124ES
Q401	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q402	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q403	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q404	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q405	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q406	8-729-900-36	TRANSISTOR DTC124ES
Q453	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q454	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q455	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q701	8-729-209-15	TRANSISTOR 2SD2012
Q702	8-729-141-46	TRANSISTOR 2SC4431-LK
Q703	8-729-141-37	TRANSISTOR 2SA1684-LK
Q704	8-729-320-83	TRANSISTOR 2SC3855-0Y
Q705	8-729-320-86	TRANSISTOR 2SA1491-0Y
Q706	8-729-108-14	TRANSISTOR 2SA988-F
Q707	8-729-108-14	TRANSISTOR 2SA988-F
Q708	8-729-140-84	TRANSISTOR 2SA1841-PAFAEA
Q709	8-729-620-05	TRANSISTOR 2SC2603-EF
Q710	8-729-620-05	TRANSISTOR 2SC2603-EF
Q711	8-729-620-05	TRANSISTOR 2SC2603-EF
Q720	8-729-620-05	TRANSISTOR 2SC2603-EF
Q721	8-729-620-05	TRANSISTOR 2SC2603-EF
Q751	8-729-209-15	TRANSISTOR 2SD2012
Q752	8-729-141-46	TRANSISTOR 2SC4431-LK
Q753	8-729-141-37	TRANSISTOR 2SA1684-LK
Q754	8-729-320-83	TRANSISTOR 2SC3855-0Y
Q755	8-729-320-86	TRANSISTOR 2SA1491-0Y

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Ref.No.	Part No.	Description			
Q756	8-729-108-14	TRANSISTOR 2SA988-F			
Q757	8-729-108-14	TRANSISTOR 2SA988-F			
Q802	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q803	8-729-209-15	TRANSISTOR 2SD2012			
Q804	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q805	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q806	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q807	8-729-900-63	TRANSISTOR DTA124ES			
Q808	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q809	8-729-900-89	TRANSISTOR DTC144ES			
Q820	8-729-141-06	TRANSISTOR 2SA1142-QPE			
R01	1-249-411-11	CARBON	330	5%	1/4W
R02	1-249-411-11	CARBON	330	5%	1/4W
R04	1-249-414-11	CARBON	560	5%	1/4W
R05	1-249-411-11	CARBON	330	5%	1/4W
R06	1-249-434-11	CARBON	27K	5%	1/4W
R07	1-249-432-11	CARBON	18K	5%	1/4W
R09	1-249-411-11	CARBON	330	5%	1/4W
R10	1-249-434-11	CARBON	27K	5%	1/4W
R11	1-249-414-11	CARBON	560	5%	1/4W
R12	1-249-432-11	CARBON	18K	5%	1/4W
R17	1-249-437-11	CARBON	47K	5%	1/4W
R18	1-249-433-11	CARBON	22K	5%	1/4W
R21	1-249-437-11	CARBON	47K	5%	1/4W
R22	1-249-421-11	CARBON	2.2K	5%	1/4W
R23	1-249-434-11	CARBON	27K	5%	1/4W
R24	1-249-402-11	CARBON	56	5%	1/4W
R25	1-249-429-11	CARBON	10K	5%	1/4W
R26	1-249-404-00	CARBON	82	5%	1/4W
R27	1-249-429-11	CARBON	10K	5%	1/4W
R28	1-249-423-11	CARBON	3.3K	5%	1/4W
R30	1-249-417-11	CARBON	1K	5%	1/4W
R31	1-249-431-11	CARBON	15K	5%	1/4W
R32	1-249-423-11	CARBON	3.3K	5%	1/4W
R33	1-249-417-11	CARBON	1K	5%	1/4W
R34	△, 1-247-700-11	CARBON	100	5%	1/4W F
R35	1-249-438-11	CARBON	56K	5%	1/4W
R36	△, 1-247-696-11	CARBON	47	5%	1/4W F
R37	1-249-423-11	CARBON	3.3K	5%	1/4W
R38	1-249-417-11	CARBON	1K	5%	1/4W
R39	1-249-429-11	CARBON	10K	5%	1/4W
R40	1-249-417-11	CARBON	1K	5%	1/4W
R43	1-247-883-00	CARBON	150K	5%	1/4W
R44	1-247-883-00	CARBON	150K	5%	1/4W
R45	1-247-883-00	CARBON	150K	5%	1/4W
R46	1-247-883-00	CARBON	150K	5%	1/4W
R47	1-249-429-11	CARBON	10K	5%	1/4W
R48	1-249-405-11	CARBON	100	5%	1/4W
R49	1-249-425-11	CARBON	4.7K	5%	1/4W
R50	1-249-421-11	CARBON	2.2K	5%	1/4W
R51	1-249-425-11	CARBON	4.7K	5%	1/4W
R52	1-249-414-11	CARBON	560	5%	1/4W
R53	1-249-425-11	CARBON	4.7K	5%	1/4W
R54	1-249-423-11	CARBON	3.3K	5%	1/4W
R55	1-249-418-11	CARBON	1.2K	5%	1/4W
R56	1-249-410-11	CARBON	270	5%	1/4W

Ref.No.	Part No.	Description			
R57	1-249-406-11	CARBON	120	5%	1/4W
R58	1-249-429-11	CARBON	10K	5%	1/4W
R59	1-249-429-11	CARBON	10K	5%	1/4W
R60	1-249-429-11	CARBON	10K	5%	1/4W
R61	1-249-429-11	CARBON	10K	5%	1/4W
R62	1-249-429-11	CARBON	10K	5%	1/4W
R63	1-249-437-11	CARBON	47K	5%	1/4W
R64	1-249-433-11	CARBON	22K	5%	1/4W
R65	1-249-423-11	CARBON	3.3K	5%	1/4W
R66	1-249-423-11	CARBON	3.3K	5%	1/4W
R67	1-249-425-11	CARBON	4.7K	5%	1/4W
R68	1-249-425-11	CARBON	4.7K	5%	1/4W
R69	1-249-429-11	CARBON	10K	5%	1/4W
R71	1-249-411-11	CARBON	330	5%	1/4W
R72	1-249-411-11	CARBON	330	5%	1/4W
R73	1-249-423-11	CARBON	3.3K	5%	1/4W
R74	1-249-411-11	CARBON	330	5%	1/4W
R75	1-249-437-11	CARBON	47K	5%	1/4W
R76	1-249-423-11	CARBON	3.3K	5%	1/4W
R77	1-247-874-11	CARBON	62K	5%	1/4W
R301	1-249-429-11	CARBON	10K	5%	1/4W
R303	1-249-417-11	CARBON	1K	5%	1/4W
R304	1-249-441-11	CARBON	100K	5%	1/4W
R305	1-249-405-11	CARBON	100	5%	1/4W
R306	1-249-405-11	CARBON	100	5%	1/4W
R309	1-249-405-11	CARBON	100	5%	1/4W
R311	1-249-441-11	CARBON	100K	5%	1/4W
R312	1-249-429-11	CARBON	10K	5%	1/4W
R313	1-249-437-11	CARBON	47K	5%	1/4W
R314	1-249-437-11	CARBON	47K	5%	1/4W
R315	1-249-413-11	CARBON	470	5%	1/4W
R316	1-249-413-11	CARBON	470	5%	1/4W
R321	1-249-411-11	CARBON	330	5%	1/4W
R322	1-249-411-11	CARBON	330	5%	1/4W
R323	1-249-411-11	CARBON	330	5%	1/4W
R324	1-249-411-11	CARBON	330	5%	1/4W
R325	1-249-425-11	CARBON	4.7K	5%	1/4W
R326	1-249-425-11	CARBON	4.7K	5%	1/4W
R327	1-249-425-11	CARBON	4.7K	5%	1/4W
R328	1-249-425-11	CARBON	4.7K	5%	1/4W
R329	△, 1-249-457-11	CARBON	6.8	5%	1/4W F
R330	△, 1-249-457-11	CARBON	6.8	5%	1/4W F
R331	1-249-437-11	CARBON	47K	5%	1/4W
R332	1-249-437-11	CARBON	47K	5%	1/4W
R333	1-249-437-11	CARBON	47K	5%	1/4W
R334	1-249-437-11	CARBON	47K	5%	1/4W
R335	1-249-437-11	CARBON	47K	5%	1/4W
R336	1-249-437-11	CARBON	47K	5%	1/4W
R337	1-249-437-11	CARBON	47K	5%	1/4W
R338	1-249-437-11	CARBON	47K	5%	1/4W
R339	1-249-437-11	CARBON	47K	5%	1/4W
R340	1-249-437-11	CARBON	47K	5%	1/4W
R341	1-249-437-11	CARBON	47K	5%	1/4W
R342	1-249-437-11	CARBON	47K	5%	1/4W
R343	1-249-437-11	CARBON	47K	5%	1/4W
R344	1-249-437-11	CARBON	47K	5%	1/4W
R345	1-249-437-11	CARBON	47K	5%	1/4W

Note: The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description			
R346	1-249-437-11	CARBON	47K	5%	1/4W
R347	1-249-413-11	CARBON	470	5%	1/4W
R348	1-249-437-11	CARBON	47K	5%	1/4W
R349	1-249-437-11	CARBON	47K	5%	1/4W
R350	1-249-437-11	CARBON	47K	5%	1/4W
R351	1-249-437-11	CARBON	47K	5%	1/4W
R352	1-249-437-11	CARBON	47K	5%	1/4W
R353	1-249-437-11	CARBON	47K	5%	1/4W
R354	1-249-437-11	CARBON	47K	5%	1/4W
R355	1-249-437-11	CARBON	47K	5%	1/4W
R356	1-249-437-11	CARBON	47K	5%	1/4W
R357	1-249-437-11	CARBON	47K	5%	1/4W
R358	1-249-437-11	CARBON	47K	5%	1/4W
R359	1-249-437-11	CARBON	47K	5%	1/4W
R360	1-249-433-11	CARBON	22K	5%	1/4W
R361	1-249-437-11	CARBON	47K	5%	1/4W
R362	1-249-437-11	CARBON	47K	5%	1/4W
R401	1-249-411-11	(GX70ESA)...CARBON	330	5%	1/4W
R401	1-249-416-11	(GX70ES)....CARBON	820	5%	1/4W
R402	1-249-417-11	CARBON	1K	5%	1/4W
R403	1-249-417-11	CARBON	1K	5%	1/4W
R404	1-249-417-11	CARBON	1K	5%	1/4W
R405	1-249-417-11	CARBON	1K	5%	1/4W
R406	1-249-437-11	CARBON	47K	5%	1/4W
R407	1-249-437-11	CARBON	47K	5%	1/4W
R411	1-249-417-11	CARBON	1K	5%	1/4W
R412	1-249-437-11	CARBON	47K	5%	1/4W
R413	1-249-437-11	CARBON	47K	5%	1/4W
R414	1-249-417-11	CARBON	1K	5%	1/4W
R415	1-249-437-11	CARBON	47K	5%	1/4W
R416	1-249-437-11	CARBON	47K	5%	1/4W
R417	1-249-417-11	CARBON	1K	5%	1/4W
R418	1-249-437-11	CARBON	47K	5%	1/4W
R419	1-249-437-11	CARBON	47K	5%	1/4W
R420	1-249-417-11	CARBON	1K	5%	1/4W
R421	1-249-437-11	CARBON	47K	5%	1/4W
R422	1-249-437-11	CARBON	47K	5%	1/4W
R423	1-249-437-11	CARBON	47K	5%	1/4W
R424	1-249-441-11	CARBON	100K	5%	1/4W
R425	1-249-417-11	CARBON	1K	5%	1/4W
R426	1-247-897-11	CARBON	560K	5%	1/4W
R427	1-249-437-11	CARBON	47K	5%	1/4W
R428	1-249-441-11	CARBON	100K	5%	1/4W
R429	1-249-417-11	CARBON	1K	5%	1/4W
R430	1-249-417-11	CARBON	1K	5%	1/4W
R431	1-249-437-11	CARBON	47K	5%	1/4W
R432	1-249-437-11	CARBON	47K	5%	1/4W
R433	1-249-425-11	CARBON	4.7K	5%	1/4W
R434	1-249-429-11	CARBON	10K	5%	1/4W
R435	1-249-429-11	CARBON	10K	5%	1/4W
R436	1-249-425-11	CARBON	4.7K	5%	1/4W
R437	1-249-429-11	CARBON	10K	5%	1/4W
R438	1-249-441-11	CARBON	100K	5%	1/4W
R439	1-249-421-11	CARBON	2.2K	5%	1/4W
R440	1-249-417-11	CARBON	1K	5%	1/4W
R441	1-249-405-11	CARBON	100	5%	1/4W
R442	1-249-441-11	CARBON	100K	5%	1/4W
R443	1-249-441-11	CARBON	100K	5%	1/4W
R449	1-249-416-11	(GX70ES)....CARBON	820	5%	1/4W

Ref.No.	Part No.	Description			
R451	1-249-411-11	(GX70ESA)...CARBON	330	5%	1/4W
R451	1-249-416-11	(GX70ES)....CARBON	820	5%	1/4W
R452	1-249-417-11	CARBON	1K	5%	1/4W
R453	1-249-417-11	CARBON	1K	5%	1/4W
R454	1-249-417-11	CARBON	1K	5%	1/4W
R455	1-249-417-11	CARBON	1K	5%	1/4W
R456	1-249-437-11	CARBON	47K	5%	1/4W
R457	1-249-437-11	CARBON	47K	5%	1/4W
R461	1-249-417-11	CARBON	1K	5%	1/4W
R462	1-249-437-11	CARBON	47K	5%	1/4W
R463	1-249-437-11	CARBON	47K	5%	1/4W
R464	1-249-417-11	CARBON	1K	5%	1/4W
R465	1-249-437-11	CARBON	47K	5%	1/4W
R466	1-249-437-11	CARBON	47K	5%	1/4W
R467	1-249-417-11	CARBON	1K	5%	1/4W
R468	1-249-437-11	CARBON	47K	5%	1/4W
R469	1-249-437-11	CARBON	47K	5%	1/4W
R470	1-249-417-11	CARBON	1K	5%	1/4W
R471	1-249-437-11	CARBON	47K	5%	1/4W
R472	1-249-437-11	CARBON	47K	5%	1/4W
R473	1-249-437-11	CARBON	47K	5%	1/4W
R474	1-249-441-11	CARBON	100K	5%	1/4W
R475	1-249-417-11	CARBON	1K	5%	1/4W
R476	1-247-897-11	CARBON	560K	5%	1/4W
R477	1-249-437-11	CARBON	47K	5%	1/4W
R478	1-249-441-11	CARBON	100K	5%	1/4W
R479	1-249-417-11	CARBON	1K	5%	1/4W
R480	1-249-417-11	CARBON	1K	5%	1/4W
R481	1-249-437-11	CARBON	47K	5%	1/4W
R482	1-249-437-11	CARBON	47K	5%	1/4W
R486	1-249-425-11	CARBON	4.7K	5%	1/4W
R487	1-249-429-11	CARBON	10K	5%	1/4W
R490	1-249-417-11	CARBON	1K	5%	1/4W
R491	1-249-405-11	CARBON	100	5%	1/4W
R499	1-249-416-11	(GX70ES)....CARBON	820	5%	1/4W
R501	1-249-437-11	CARBON	47K	5%	1/4W
R502	1-249-437-11	CARBON	47K	5%	1/4W
R551	1-249-437-11	CARBON	47K	5%	1/4W
R552	1-249-437-11	CARBON	47K	5%	1/4W
R601	1-249-438-11	CARBON	56K	5%	1/4W
R602	1-249-426-11	CARBON	5.6K	5%	1/4W
R603	1-249-421-11	CARBON	2.2K	5%	1/4W
R604	1-247-870-11	CARBON	43K	5%	1/4W
R606	1-247-852-11	CARBON	7.5K	5%	1/4W
R607	1-249-437-11	CARBON	47K	5%	1/4W
R608	1-249-429-11	CARBON	10K	5%	1/4W
R609	1-247-903-00	CARBON	1M	5%	1/4W
R610	1-247-903-00	CARBON	1M	5%	1/4W
R614	1-249-413-11	CARBON	470	5%	1/4W
R620	1-249-436-11	CARBON	39K	5%	1/4W
R651	1-249-438-11	CARBON	56K	5%	1/4W
R652	1-249-426-11	CARBON	5.6K	5%	1/4W
R653	1-249-421-11	CARBON	2.2K	5%	1/4W
R654	1-247-870-11	CARBON	43K	5%	1/4W
R656	1-247-852-11	CARBON	7.5K	5%	1/4W
R657	1-249-437-11	CARBON	47K	5%	1/4W
R658	1-249-429-11	CARBON	10K	5%	1/4W
R659	1-247-903-00	CARBON	1M	5%	1/4W
R660	1-247-903-00	CARBON	1M	5%	1/4W

Ref.No.	Part No.	Description			
R670	1-249-436-11	CARBON	39K	5%	1/4W
R701	1-249-417-11	CARBON	1K	5%	1/4W
R702	1-247-878-00	CARBON	91K	5%	1/4W
R703	1-249-415-11	(GX70ES)....CARBON	680	5%	1/4W
R703	1-249-442-11	(GX70ESA)...CARBON	510	5%	1/4W
R704	1-249-413-11	CARBON	470	5%	1/4W
R705	1-249-441-11	CARBON	100K	5%	1/4W
R706	1-249-417-11	CARBON	1K	5%	1/4W
R708	1-249-412-11	CARBON	390	5%	1/4W
R709	△.1-247-704-11	CARBON	220	5%	1/4W F
R710	△.1-249-455-11	CARBON	4.7	5%	1/4W F
R711	△.1-249-455-11	CARBON	4.7	5%	1/4W F
R712	1-214-789-00	RES, METAL PLATE 0.1			
R713	1-214-789-00	RES, METAL PLATE 0.1			
R714	1-249-417-11	CARBON	1K	5%	1/4W
R716	1-249-431-11	CARBON	15K	5%	1/4W
R717	1-249-417-11	CARBON	1K	5%	1/4W
R718	1-249-431-11	CARBON	15K	5%	1/4W
R719	1-249-433-11	CARBON	22K	5%	1/4W
R720	1-249-482-11	CARBON	4.7	5%	1/2W
R721	1-247-727-11	CARBON	10	5%	1/2W
R722	1-249-429-11	CARBON	10K	5%	1/4W
R723	1-249-437-11	CARBON	47K	5%	1/4W
R730	1-249-429-11	CARBON	10K	5%	1/4W
R731	1-249-437-11	CARBON	47K	5%	1/4W
R732	1-249-417-11	CARBON	1K	5%	1/4W
R733	1-249-436-11	CARBON	39K	5%	1/4W
R734	1-249-425-11	CARBON	4.7K	5%	1/4W
R735	△.1-216-431-11	METAL OXIDE	560	5%	1W F
R736	1-249-437-11	CARBON	47K	5%	1/4W
R737	1-249-425-11	CARBON	4.7K	5%	1/4W
R738	1-249-437-11	CARBON	47K	5%	1/4W
R739	△.1-247-735-11	CARBON	47	5%	1/2W F
R745	1-249-482-11	(GX70ES)....CARBON	4.7	5%	1/2W
R746	1-249-482-11	(GX70ES)....CARBON	4.7	5%	1/2W
R751	1-249-417-11	CARBON	1K	5%	1/4W
R752	1-247-878-00	CARBON	91K	5%	1/4W
R753	1-249-415-11	(GX70ES)....CARBON	680	5%	1/4W
R753	1-249-442-11	(GX70ESA)...CARBON	510	5%	1/4W
R754	1-249-413-11	CARBON	470	5%	1/4W
R755	1-249-441-11	CARBON	100K	5%	1/4W
R756	1-249-417-11	CARBON	1K	5%	1/4W
R758	1-249-412-11	CARBON	390	5%	1/4W
R759	△.1-247-704-11	CARBON	220	5%	1/4W F
R760	△.1-249-455-11	CARBON	4.7	5%	1/4W F

Ref.No.	Part No.	Description			
R761	△.1-249-455-11	CARBON	4.7	5%	1/4W F
R762	1-214-789-00	RES, METAL PLATE 0.1			
R763	1-214-789-00	RES, METAL PLATE 0.1			
R764	1-249-417-11	CARBON	1K	5%	1/4W
R766	1-249-431-11	CARBON	15K	5%	1/4W
R767	1-249-417-11	CARBON	1K	5%	1/4W
R768	1-249-431-11	CARBON	15K	5%	1/4W
R769	1-249-434-11	CARBON	27K	5%	1/4W
R770	1-249-482-11	CARBON	4.7	5%	1/2W
R771	1-247-727-11	CARBON	10	5%	1/2W
R785	△.1-216-431-11	METAL OXIDE	560	5%	1W F
R795	1-249-482-11	(GX70ES)...CARBON	4.7	5%	1/2W
R796	1-249-482-11	(GX70ES)...CARBON	4.7	5%	1/2W
R801	△.1-247-691-11	CARBON	18	5%	1/4W F
R802	1-249-417-11	CARBON	1K	5%	1/4W
R804	1-249-433-11	CARBON	22K	5%	1/4W
R805	1-249-437-11	CARBON	47K	5%	1/4W
R806	1-249-425-11	CARBON	4.7K	5%	1/4W
R807	1-249-433-11	CARBON	22K	5%	1/4W
R808	1-249-417-11	CARBON	1K	5%	1/4W
R809	1-249-429-11	CARBON	10K	5%	1/4W
R810	1-249-429-11	CARBON	10K	5%	1/4W
R812	1-249-426-11	CARBON	5.6K	5%	1/4W
R813	1-249-417-11	CARBON	1K	5%	1/4W
R814	1-249-426-11	CARBON	5.6K	5%	1/4W
R815	1-247-895-00	CARBON	470K	5%	1/4W
R820	1-249-429-11	CARBON	10K	5%	1/4W
R821	△.1-247-752-11	CARBON	1K	5%	1/2W F
R822	△.1-212-934-00	FUSIBLE	1	5%	1/2W F
R823	△.1-212-934-00	FUSIBLE	1	5%	1/2W F
R824	△.1-212-958-00	FUSIBLE	10	5%	1/2W F
R825	△.1-212-958-00	FUSIBLE	10	5%	1/2W F
R826	1-249-389-11	CARBON	4.7	5%	1/4W
R827	1-249-389-11	CARBON	4.7	5%	1/4W
RT02	1-238-019-11	RES, ADJ, CARBON 47K (AM METER)			
RT03	1-238-020-11	RES, ADJ, CARBON 100K (STOP LEVEL)			
RT04	1-238-020-11	RES, ADJ, CARBON 100K (FM METER)			
RT05	1-238-021-11	RES, ADJ, CARBON 220K (ST SEPARATION)			
RV601	1-238-152-31	RES, VAR, CARBON 150K/150K (BALANCE)			
RV602	1-237-471-41	RES, VAR, CARBON 250K/250K (TREBLE)			
RV603	1-238-441-21	RES, VAR, CARBON 25K/500K (BASS)			
RV604	1-238-628-21	RES, VAR, CARBON (MOTOR) 120KX2 (ATTENUATOR)			
RV701	1-238-011-11	RES, ADJ, CARBON 470 (BIAS)			
RV751	1-238-011-11	RES, ADJ, CARBON 470 (BIAS)			

Note: The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description
RY701	1-515-726-11	RELAY
RY702	1-515-732-11	RELAY
RY703	1-515-732-11	RELAY
RY901	1-515-617-11	RELAY
S301	1-554-303-21	SWITCH, KEY BOARD (SHIFT)
S302	1-554-303-21	SWITCH, KEY BOARD (3)
S303	1-554-303-21	SWITCH, KEY BOARD (2)
S304	1-554-303-21	SWITCH, KEY BOARD (1)
S305	1-554-303-21	SWITCH, KEY BOARD (0)
S306	1-554-303-21	SWITCH, KEY BOARD (6)
S307	1-554-303-21	SWITCH, KEY BOARD (5)
S308	1-554-303-21	SWITCH, KEY BOARD (4)
S309	1-554-303-21	SWITCH, KEY BOARD (MEMORY)
S310	1-554-303-21	SWITCH, KEY BOARD (9)
S311	1-554-303-21	SWITCH, KEY BOARD (8)
S312	1-554-303-21	SWITCH, KEY BOARD (7)
S313	1-554-303-21	SWITCH, KEY BOARD (DAT)
S314	1-554-303-21	SWITCH, KEY BOARD (CD)
S315	1-554-303-21	SWITCH, KEY BOARD (TUNER)
S316	1-554-303-21	SWITCH, KEY BOARD (PHONO)
S317	1-554-303-21	SWITCH, KEY BOARD (VIDEO)
S318	1-554-303-21	SWITCH, KEY BOARD (TAPE)
S319	1-554-303-21	SWITCH, KEY BOARD (FM TUNE MODE, AUTO/MAN)
S320	1-554-303-21	SWITCH, KEY BOARD (BAND AM)
S321	1-554-303-21	SWITCH, KEY BOARD (TUNING +)
S322	1-554-303-21	SWITCH, KEY BOARD (PRESET TUNING +)
S323	1-554-303-21	SWITCH, KEY BOARD (FM MODE)
S324	1-554-303-21	SWITCH, KEY BOARD (BAND FM)
S325	1-554-303-21	SWITCH, KEY BOARD (TUNING -)
S326	1-554-303-21	SWITCH, KEY BOARD (PRESET TUNING -)
S328	1-554-303-21	SWITCH, KEY BOARD (MUTING -20dB)
S330	1-554-303-21	SWITCH, KEY BOARD (POWER)
S401	1-570-076-11	SWITCH, SLIDE (REMOTE TYPE) (REC OUT SELECTOR)
S501	1-572-318-11	SWITCH, ROTARY SLIDE (REMOTE) (REC OUT SELECTOR)
S601	1-572-261-11	SWITCH, PUSH (2 KEY) (SOURCE DIRECT, LOUDNESS)
S701	1-571-973-11	SWITCH, ROTARY (SPEAKERS)
S801	1-571-309-31	(GX70ESA)...SWITCH (SPEAKER IMPEDANCE SELECTOR)
T01	1-404-713-11	TRANSFORMER, IF
T02	1-404-743-11	COIL, DISCRIMINATOR
T03	1-404-742-11	COIL, DISCRIMINATOR
T04	1-235-126-00	(GX70ES)...ENCAPSULATED COMPONENT

Ref.No.	Part No.	Description
T901	△.1-448-523-11	TRANSFORMER, POWER
T902	△.1-449-971-11	TRANSFORMER, POWER
TM01	*1-537-138-31	TERMINAL BOARD (ANTENNA)
TM701	1-537-227-11	(GX70ESA)...TERMINAL BOARD(SP)(SPEAKER)
TM701	1-537-228-11	(GX70ES)...TERMINAL BOARD(SP)(SPEAKER)
TP01	*1-560-060-00	PIN, CONNECTOR 2P
VZ901	1-807-180-31	VARISTOR SNR-14A471U
XT01	1-577-126-11	VIBRATOR, CRYSTAL

ACCESSORY & PACKING MATERIAL

1-465-420-11	REMOTE COMMANDER (RM-U203)
1-501-369-11	(GX70ESA)...ANTENNA
1-501-374-11	ANTENNA, LOOP
*3-703-710-41	STICKER, SONY SYMBOL (12)
3-751-907-11	(GX70ESA)...MANUAL, INSTRUCTION
3-751-907-41	(GX70ES)...MANUAL, INSTRUCTION
4-925-079-01	COVER (6), BATTERY
*4-931-623-01	CUSHION
*4-931-627-01	INDIVIDUAL CARTON

Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

