

Service Manual

**SW1/SW2/MW/FM STEREO RADIO
WITH CASSETTE TAPE DECK AND
RECORD PLAYER OR RECORD CHANGER**

Stereo Music System

SG-V01

(G)

SG-V11

(G)



SG-V01 (G)
(with Record Player)



SG-V11 (G)
(with Record Changer)

Specifications

AMPLIFIER SECTION

Power Output	PMPO: 60W (30W x 2) RMS: 17W (8.5W x 2) One channel driven, THD 10%, 8Ω
Output Impedance	8Ω
Frequency Response	60 Hz ~ 20 kHz, -3 dB
Input sensitivity & Impedance:	
Mic	1.5 mV, 15 kΩ
Tone Control	+4 dB, -15 dB at 10 kHz

FM TUNER SECTION

Frequency Range	87.5 MHz ~ 108 MHz
Intermediate Frequency (IF)	10.7 MHz
Sensitivity	6 μV (S/N 30 dB, Mod. 30%)
Image Ratio	40 dB (98 MHz)

AM TUNER SECTION

Frequency Range	MW: 525 kHz ~ 1605 kHz (571 m ~ 187 m)
	SW ₁ : 2.3 MHz ~ 7 MHz (130 m ~ 42.9 m)
	SW ₂ : 7 MHz ~ 22 MHz (42.9 m ~ 13.6 m)
Intermediate Frequency (IF)	455 kHz
Sensitivity	MW: 200 μV/m (1 MHz) SW ₁ : 8 μV (4 MHz) SW ₂ : 11 μV (12 MHz)
Image Ratio	MW: 35 dB (1 MHz) SW ₁ : 20 dB (4 MHz) SW ₂ : 9 dB (12 MHz)

PHONO SECTION

Turntable System	Belt Drive, Fully Automatic Turntable
Turntable Size	28 cm (11")

Turntable Speed	33-1/3 rpm and 45 rpm
Phono Motor	Electro Governor DC Motor
Cartridge	Ceramic Cartridge (EPC13STH)
Stylus	Sapphire (EPS41ST)

TAPE DECK SECTION

Deck System	Full Auto-Stop Cassette System with Pause Control
Track System	4-Track, 2-Channel
Recording System	AC Bias (60 kHz)
Erasing System	AC Erase (60 kHz)
Tape Speed	4.75 cm/sec. (1-7/8 i.p.s.)
Frequency Response	40 Hz ~ 10 kHz
Wow & Flutter	0.15% (WRMS)

GENERAL

Power Consumption	30W
Power Supply	AC 110V, 120V, 220V, 240V, 50/60 Hz
SG-V01 (G)	
Dimensions (W x H x D)	450 mm x 127 mm x 412 mm (17-23/32" x 5-0/0" x 16-15/64")
Weight	5.3 kg (11.7 lbs.)
SG-V11 (G)	
Dimensions (W x H x D)	450 mm x 167 mm x 412 mm (17-23/32" x 6-37/64" x 16-15/64")
Weight	5.7 kg (12.6 lbs.)

* Specifications are subject to change without notice for further improvement.

National

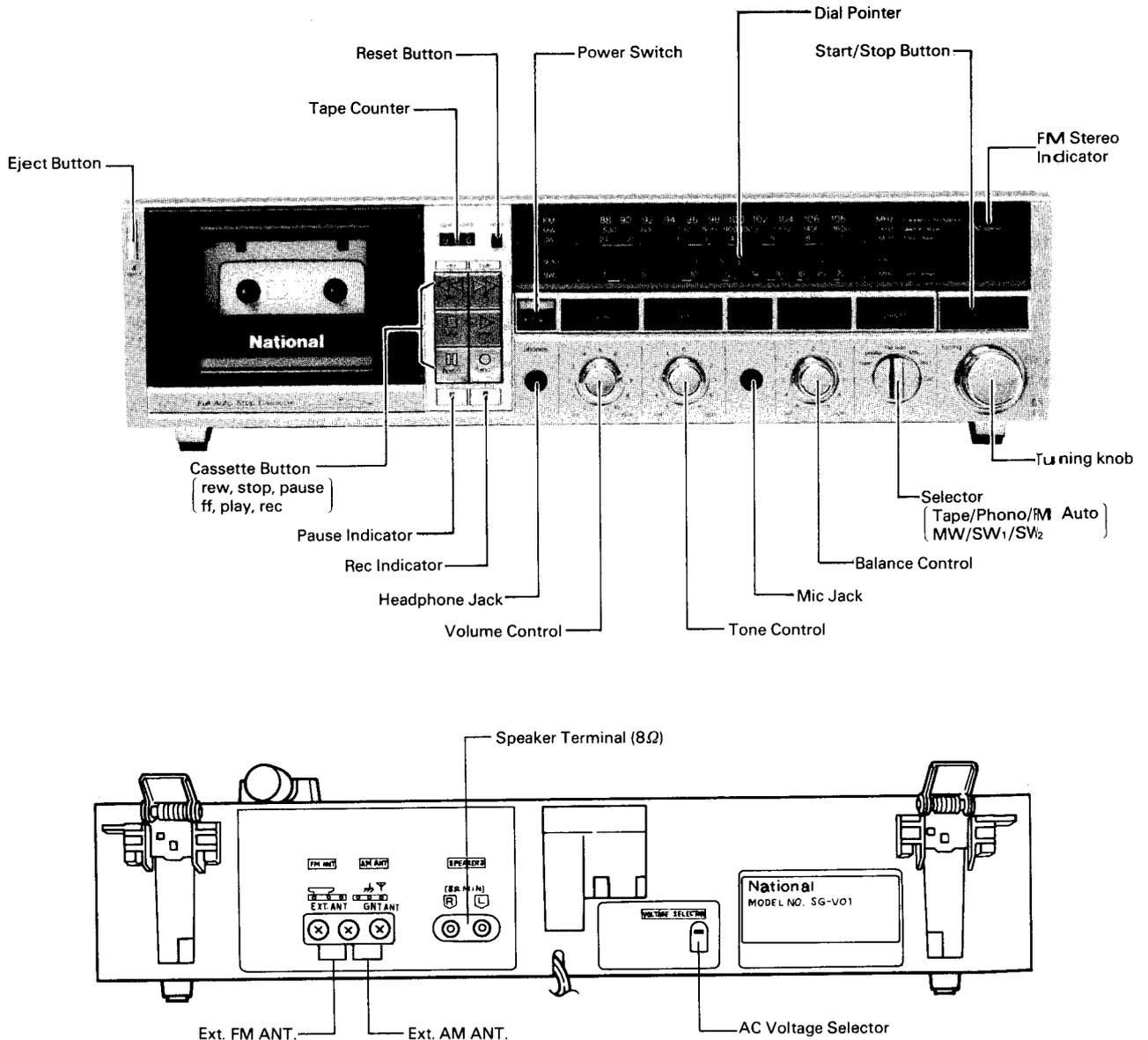
Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka, Japan

SG-V01/SG-V11

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LOCATION OF CONTROLS



DISASSEMBLY INSTRUCTIONS

<p>1 Remove The Dust Cover 2 Remove The Bottom Cover</p> <p>Bottom Cover</p>	<p>3 Remove The Screw, Lead and Spring</p> <p>Spring Lead</p>	<p>4 Remove The Front Panel W/P.C.B.</p> <p>Front Panel P.C.B. Ass'y Start Rod</p>
<p>5 Remove The Cassette Lid</p> <p>Cassette Lid Spring Screw Driver Push</p>	<p>6 Remove The Cassette Deck</p> <p>Cassette Deck</p>	<p>7 Pull The Knobs</p> <p>Knobs Knob Front Panel Cellophane Tape</p>
<p>8 Remove The Turning Shaft</p> <p>Screw Driver Tuning Shaft Push Tuning Shaft</p>	<p>9 Remove The Cassette Button (Remove The Cassette Button as pair)</p> <p>Push Push Cassette Button</p>	<p>10 Remove The Nuts</p> <p>Nuts</p>

- To Replace Parts on P.C. Board Refer to 1 ~ 4
- To Remove The Cassette Deck Refer to 5, 1 ~ 4, 6
- To Remove The Front Panel Refer to 5, 1 ~ 4, 6 ~ 10

SG-V01/SG-V11

MEASUREMENTS AND ADJUSTMENT

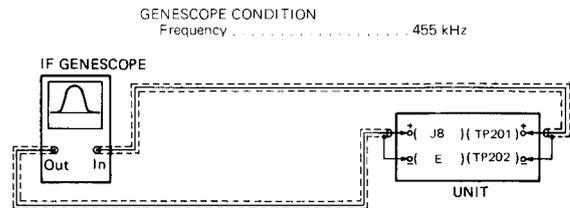
● Radio

Control Positions

- Volume Control..... Audible level of speaker sound (AM-RF, FM-RF); Minimum (AM-IF, FM-IF).
- Tone Control..... Center
- Balance Control..... Center
- Output of signal generator should be no higher than necessary to obtain output reading.
- Make certain that speaker system is connected to the receiver when aligning (or use relevant dummy load resistors).

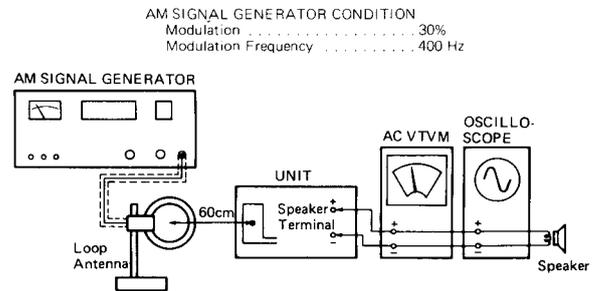
AM-IF ALIGNMENT

1. Test equipment connection is shown in figure.
2. Place unit into MW position.
3. Place the radio dial setting to point of noninterference.
4. Adjust **T201** for maximum output and symmetrical curve.



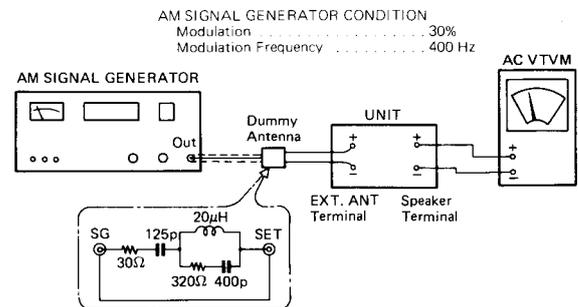
MW-RF ALIGNMENT

1. Test equipment connection is shown in figure.
2. Place unit into MW position.
3. Place the radio dial and signal generator setting to 511 kHz.
4. Adjust **L206** and **L203** for maximum output.
5. Place the radio dial and signal generator setting to 1650 kHz.
6. Adjust **CT203** and **CT201** for maximum output.
7. Repeat steps 3. ~ 6.



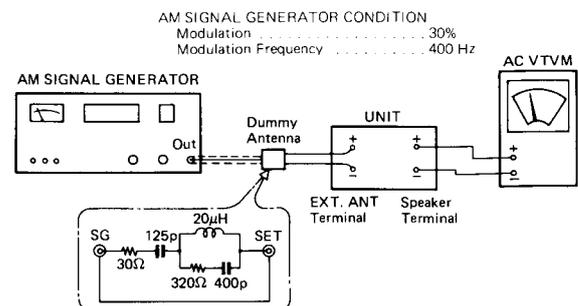
SW₁ RF ALIGNMENT

1. Test equipment connection is shown in figure.
2. Place unit into SW₁ position.
3. Place the radio dial and signal generator setting to 2.249 MHz.
4. Adjust **L207** and **L204** for maximum output.
5. Place the radio dial and signal generator setting to 7.231 MHz.
6. Adjust **CT204** and **CT202** for maximum output.
7. Repeat steps 3. ~ 6.



SW₂ RF ALIGNMENT

1. Test equipment connection is shown in figure.
2. Place unit into SW₂ position.
3. Place the radio dial and signal generator setting to 6.84 MHz.
4. Adjust **L208** and **L205** for maximum output.
5. Place the radio dial and signal generator setting to 22.79 MHz.
6. Adjust **CT205** for maximum output.
7. Repeat steps 3. ~ 6.



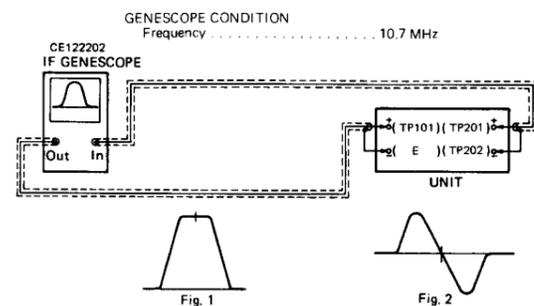
MEASUREMENTS AND ADJUSTMENT

● Radio

FM-IF ALIGNMENT

1. Test equipment connection is shown in figure.
2. Place unit into FM position.
3. Place the radio dial setting to point of noninterference.
4. Adjust **T101** for maximum amplitude and symmetrical curve. (Refer to Fig. 1)
5. Adjust **T203** for maximum amplitude and proper linearity between about ± 100 kHz markers. (Refer to Fig. 2)

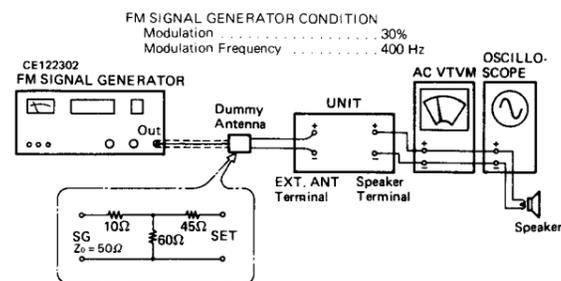
Note: Before aligning, turn the core of **T203** fully counter-clockwise.



FM-RF ALIGNMENT

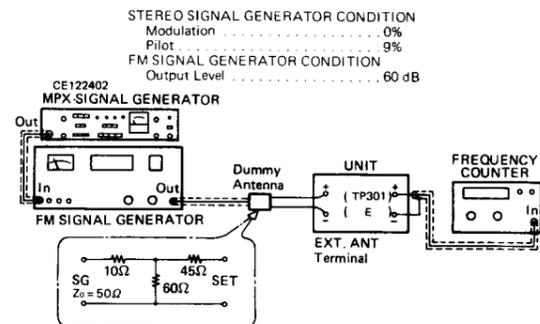
1. Test equipment connection is shown in figure.
2. Place unit into FM position.
3. Place the radio dial and signal generator setting to 87.2 MHz.
(Set the dial pointer to the left end of the scale or lower frequency edge.)
4. Adjust **L104** and **L103** for maximum output.
5. Place the radio dial and signal generator setting to 109.2 MHz.
(Set the dial pointer to the right end of the scale or upper frequency edge.)
6. Adjust **CT102** and **CT101** for maximum output.
7. Repeat steps 3. ~ 6.

Note: As three output reading will be present, adjustments must be made at center frequency.

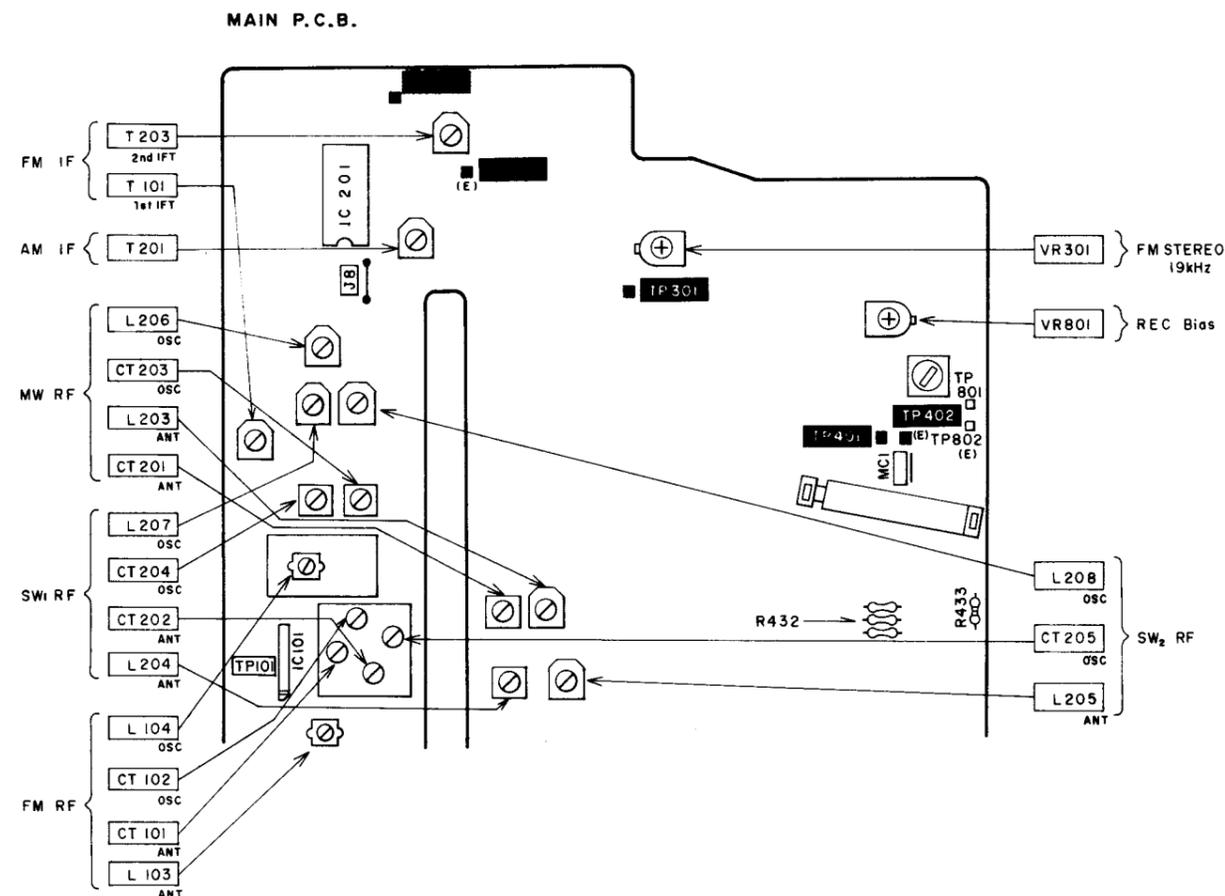


FM STEREO ALIGNMENT (FREE RUN)

1. Test equipment connection is shown in figure.
2. Place unit into FM STEREO position.
3. Place the radio dial and signal generator setting to 98 MHz.
4. Adjust **VR301** for 19 kHz ± 100 Hz on frequency counter reading.
5. Tune a stereo broadcast and confirm the frequency stays at 19 kHz.



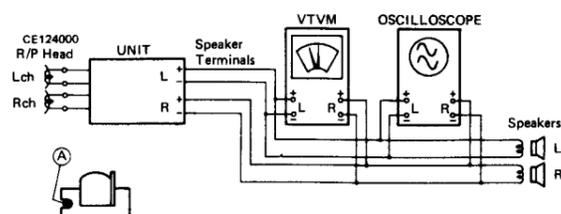
ALIGNMENT POINTS



● Tape

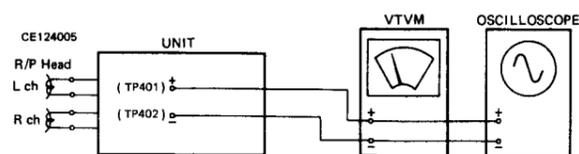
HEAD AZIMUTH ALIGNMENT CE123101

1. Test equipment connection is shown in figure.
2. Playback test tape VTT 653. (10 kHz, -5 dB)
3. Adjust screw **A** for maximum indication for equal output on both channels.
4. After alignment, lock the head adjust screw **A** with lacquer.

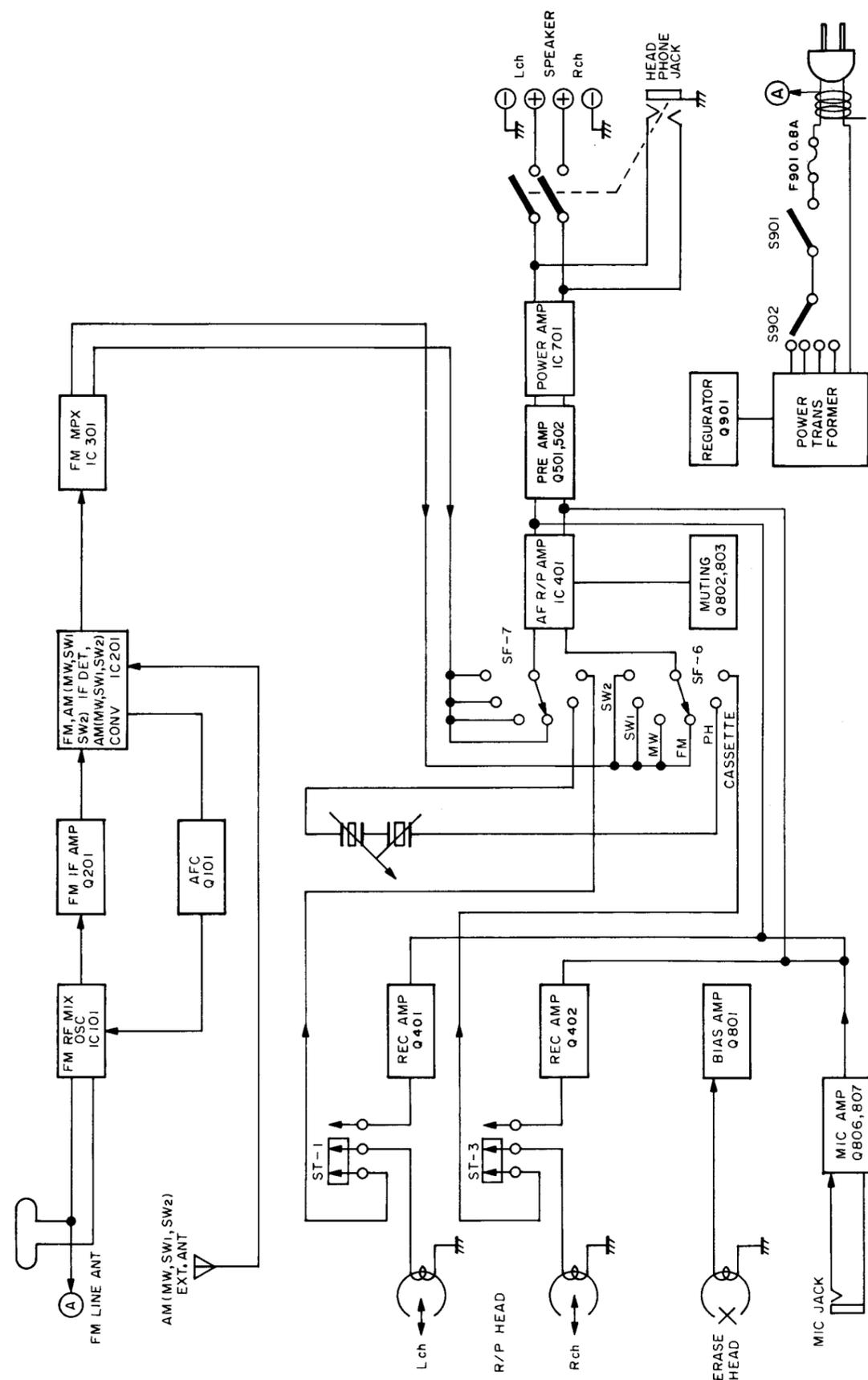


RECORDING BIAS ALIGNMENT CE123501

1. Test equipment connection is shown in figure.
2. Place unit into TAPE position.
3. Place cassette deck into recording mode.
4. Adjust **VR801** for 4.0 mV ± 0.2 mV indication on VTVM.



BLOCK DIAGRAM

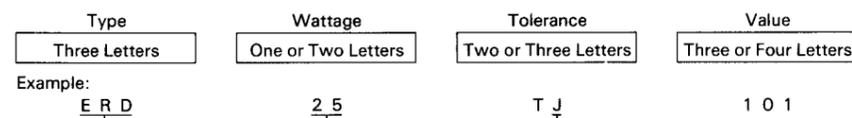


REPLACEMENT PARTS LIST

NOTE:

- 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.
- Parts No. listed in this Parts List are Service Parts.

Numbering System of Resistor



Resistor Type		Wattage	Tolerance
ERD:	Carbon Film	1: 1W	F: $\pm 1\%$
ERC:	Solid	2: 2W	J: $\pm 5\%$
ERX:	Metal Film	12: 1/2W	K: $\pm 10\%$
ERG:	Metal Oxide Film	18: 1/8W	
ERO:	High Stability Metal Film	25: 1/4W	
ERF:	Flameproof Wire-Wound Bath-Tube		
ERQ:	Fuse Type Metal Film	50: 1/2W	
RRD:	Chip	2F: 1/4W	

Ref. No.	Part No.	Description (Unit: Ω)	Ref. No.	Part No.	Description (Unit: Ω)
RESISTORS					
R101	ERD25FJ331	330	R402	ERD25FJ102	1k
R102	ERD25TJ153	15k	R403	ERD25TJ473	47k
R103	ERD25FJ102	1k	R404	ERD25TJ473	47k
R104	ERD25TJ223	22k	R405	ERD25TJ334	330k
R105	ERD25TJ224	220k	R406	ERD25TJ334	330k
R106	ERD25TJ474	470k	R407	ERD25FJ680	68
R107	ERD25FJ222	2.2k	R408	ERD25FJ680	68
R108	ERD25TJ474	470k	R409	ERD25TJ123	12k
R109	ERD25FJ220	22	R410	ERD25TJ123	12k
R110	ERD25FJ472	4.7k	R411	ERD25FJ102	1k
R201	ERD25FJ470	47	R412	ERD25FJ102	1k
R202	ERD25FJ331	330	R413	ERD25FJ102	1k
R203	ERD25FJ681	680	R414	ERD25FJ102	1k
R204	ERD25FJ472	4.7k	R415	ERD25FJ471	470
R205	ERD25FJ471	470	R416	ERD25FJ101	100
R206	ERD25FJ101	100	R417	ERD25FJ682	6.8k
R207	ERD25TJ474	470k	R418	ERD25FJ682	6.8k
R208	ERD25TJ273	27k	R419	ERD25FJ682	6.8k
R209	ERD25FJ103	10k	R420	ERD25FJ682	6.8k
R210	ERD25FJ101	100	R421	ERD25FJ391	390
R211	ERD25FJ471	470	R422	ERD25FJ391	390
R212	ERD25FJ391	390	R423	ERD25FJ472	4.7k
R213	ERD25FJ101	100	R424	ERD25FJ472	4.7k
R301	ERD25TJ183	18k	R425	ERD25TJ105	1M
R302	ERD25FJ102	1k	R426	ERD25TJ105	1M
R303	ERD25TJ104	100k	R427	ERD25TJ223	22k
R304	ERD25FJ103	10k	R428	ERD25TJ223	22k
R305	ERD25FJ103	10k	R429	ERD25TJ563	56k
R306	ERD25FJ681	680	R430	ERD25TJ563	56k
R307	ERD25FJ221	220	R431	ERD25FJ4R7	4.7
R308	ERD25TJ683	68k	R432	ERD25TJ273	27k
R309	ERD25TJ683	68k	R433	ERD25TJ273	27k
R313	ERD25TJ333	33k	R501	ERD25FJ472	4.7k
R314	ERD25TJ333	33k	R502	ERD25FJ472	4.7k
R401	ERD25FJ102	1k	R503	ERD25TJ153	15k
			R504	ERD25TJ153	15k

REPLACEMENT PARTS LIST

Numbering System of Capacitor



Example:

E C K D

1 H

3 3 3

M D

Capacitor Type	Voltage	Tolerance
ECCD: Temperature Compensating Ceramic	KC: 400V	C: ±0.25pF
ECKD: High dielectric Constant Ceramic	OJ: 6.3V	D: ±0.5pF
ECQM: Polyester	1A: 10V	F: ±1pF
ECQP: Polypropylene Film	1C: 16V	J: ±5%
ECQS: Polystyrene Film	1E: 25V	K: ±10%
ECFD: Semiconductor Ceramic	1H: 50V	M: ±20%
ECEA: Electrolytic	1V: 63V	P: +100,-0%
ECEB: Electrolytic	2H: 100V	Z: +80,-20%
ECET: Electrolytic	25: 25V	
ECSF: Tantalum	50: 50V	
ECUX: Chip		

Ref. No.	Part No.	Description (Unit: µF)
C428	ECFD1E683MD	0.068
C429	ECFD1E683MD	0.068
C431	ECKD1H222KB	0.0022
C432	ECKD1H222KB	0.0022
C433	ECKD1H102KB	0.001
C434	ECKD1H102KB	0.001
C501	ECFD1H822KD	0.0082
C502	ECFD1H822KD	0.0082
C503	ECFD1E683MD	0.068
C504	ECFD1E683MD	0.068
C505	ECEA50Z1	1
C506	ECEA50Z1	1
C601	ECCD1H100KC	10pF
C602	ECCD1H100KC	10pF
C701	ECEA50M010R	1
C702	ECEA50M010R	1
C703	ECKD1H471KB	470pF
C704	ECKD1H471KB	470pF
C705	ECEA1HS100	10
C706	ECEA1HS100	10
C707	ECEA1ES470	47
C708	ECEA1ES470	47
C709	ECEA50ZR1	0.1
C710	ECEA50ZR1	0.1
C711	ECEA1ES471	470
C712	ECEA1ES471	470
C713	ECEA1ES101	100
C714	ECEA1ES101	100
C715	ECKD1H471KB	470pF
C716	ECKD1H471KB	470pF
C801	ECCD1H181K	180pF
C802	ECCD1H181K	180pF
C803	ECQP1332JZ	3300pF
C804	ECQM1H123JZ	0.012
C805	ECQM1H683JZ	0.068
C806	ECEA1ES101	100
C807	ECEA50MR47R	0.47
C808	ECEA50Z1	1
C809	ECEA1CS331	330
C810	ECEA50ZR22	0.22
C811	ECEA50Z1	1
C812	ECEA1HS100	10
C813	ECEA1HS100	10
C814	ECKD1H332KB	0.0033
C902	△ ECEB1VS222	2200
C903	ECKD1H103ZF	0.01
C904	ECKD1H103ZF	0.01
C905	ECKD1H103ZF	0.01
C906	ECKD1H103ZF	0.01
C907	ECEA1CS330	33
C908	ECKD1H102KB	0.001
C910	△ ECKDKC472MF2	0.0047

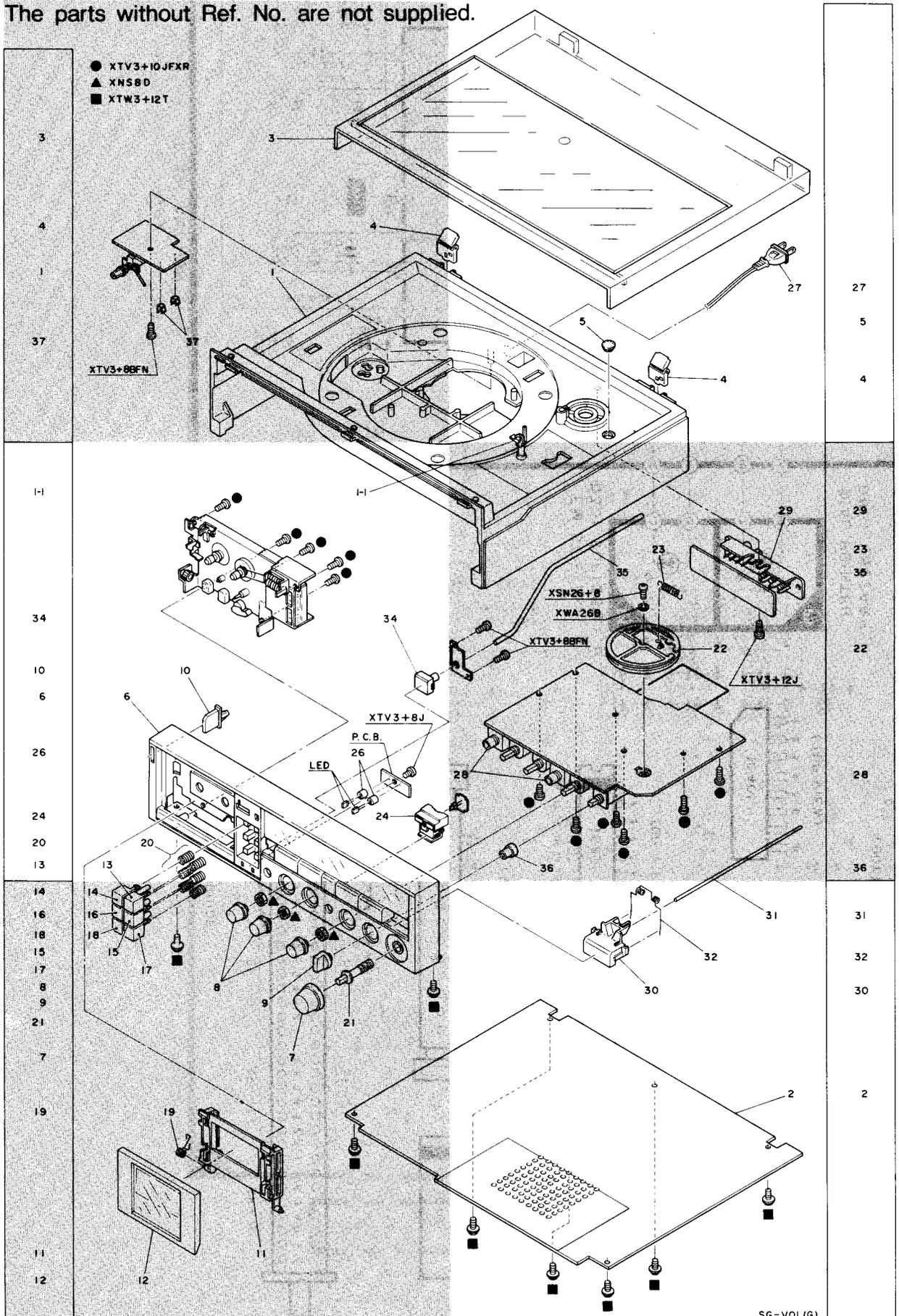
Ref. No.	Part No.	Description (Unit: µF)	Ref. No.	Part No.	Description (Unit: µF)
CAPACITORS					
C101	ECCD1H330K	33pF	C227	ECKD1H103ZF	0.01
C102	ECCD1H100KC	10pF	C228	ECEA1AS331	330
C103	ECKD1H223ZF	0.022	C229	ECKD1H223ZF	0.022
C104	ECKD1H223ZF	0.022	C230	ECEA50ZR22	0.22
C105	ECFD1E683MD	0.068	C301	ECEA50Z1	1
C106	ECCD1H270K	27pF	C302	ECQP1471JZ	470pF
C107	ECCD1H050KC	5pF	C303	ECEA50ZR47	0.47
C108	ECCD1H150KC	15pF	C304	ECEA50ZR22	0.22
C109	ECKD1H223ZF	0.022	C305	ECFD1V473KD	0.047
C110	ECKD1H223ZF	0.022	C306	ECEA50ZR47	0.47
C111	ECCD1H150KC	15pF	C307	ECFD1V103KD	0.01
C112	ECCD1H070CC	7pF	C308	ECFD1V103KD	0.01
C113	ECKD1H223ZF	0.022	C309	ECFD1E683MD	0.068
C114	ECKD1H103ZF	0.01	C310	ECFD1E683MD	0.068
C115	ECKD1H223ZF	0.022	C311	ECEA1CS330	33
C116	ECKD1H223ZF	0.022	C313	ECKD1H152KB	0.0015
C117	ECCD1H100KC	10pF	C314	ECKD1H152KB	0.0015
C120	ECKD1H223ZF	0.022	C315	ECEA1HS100	10
C121	ECKD1H471KB	470pF	C401	ECEA50MR47R	0.47
C201	ECKD1H223ZF	0.022	C402	ECEA50MR47R	0.47
C202	ECKD1H223ZF	0.022	C403	ECKD1H102KB	0.001
C204	ECCD1H080CC	8pF	C404	ECKD1H102KB	0.001
C205	ECCD1H100KC	10pF	C405	ECEA1AS470	47
C206	ECCD1H100KC	10pF	C406	ECEA1AS470	47
C207	ECKD1H223ZF	0.022	C407	ECEA50Z4R7	4.7
C209	ECCD1H180KC	18pF	C408	ECEA50Z4R7	4.7
C210	ECCD1H150KC	15pF	C409	ECFD1V103KD	0.01
C211	ECCD1H100KC	10pF	C410	ECFD1V103KD	0.01
C212	ECQM1361JZ	360pF	C411	ECEA1CS330	33
C213	ECQS1152JZ	1500pF	C413	ECEA50Z1	1
C214	ECQS1472JZ	4700pF	C414	ECEA50Z1	1
C215	ECKD1H223ZF	0.022	C415	ECKD1H102KB	0.001
C216	ECCD1H470K	47pF	C416	ECKD1H102KB	0.001
C217	ECCD1H181K	180pF	C417	ECFD1E683MD	0.068
C218	ECKD1H223ZF	0.022	C418	ECFD1E683MD	0.068
C219	ECKD1H223ZF	0.022	C419	ECEA50Z1	1
C220	ECCD1H470K	47pF	C420	ECEA50Z1	1
C221	ECEA1HS100	10	C421	ECKD1H821KB	820pF
C222	ECEA1AS101	100	C422	ECKD1H821KB	820pF
C223	ECEA50ZR47	0.47	C423	ECEA1ES101	100
C224	ECKD1H223ZF	0.022	C424	ECKD1H331KB	330pF
C225	ECKD1H223ZF	0.022	C425	ECKD1H331KB	330pF
C226	ECKD1H471KB	470pF	C426	ECCD1H151K	150pF
			C427	ECCD1H151K	150pF

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
TRANSISTORS			VARIABLE CAPACITORS					
Q101	2SA722-S	FM AFC	CV101/102/201/202/CT101/102/202	205	RCV4RC2VK-M			
Q201	2SC1359B	FM IF Amp			Variable Capacitor			
Q401	2SC945L-P	REC Amp	CT201	RCVCTY12B218	Trimmer			
Q402	2SC945L-P	REC Amp	CT203	RCVCTY12B218	Trimmer			
Q501	2SC945L-P	2nd Amp	CT205	RCVCTY12B218	Trimmer			
Q502	2SC945L-P	2nd Amp						
Q801	2SC1383NC-R	Bias OSC	SWITCHES					
Q802	2SC945L-P	Muting	SF1-12	SSR200	Function			
Q803	2SC945L-P	Muting	ST1-4	SSS116	Rec/Play			
Q805	2SD592NC-R	Switching	S901	△ ESB8213V	Power			
Q806	2SC945L-P	MIC Amp	S902	△ SSP36	Voltage Selector			
Q807	2SC945L-P	MIC Amp						
Q901	2SD1266	Stabilizer						
DIODES								
D101	MA162A	FM AGC	INTEGRATED CIRCUIT					
D301	SLP165B	FM ST EYE	IC101	AN7213	FM RF			
D801	LN224RP	Dial Point.	IC201	AN7220B	AM/FM IF			
D802	SLP155B-01	REC Ind.	IC301	AN7410N	MPX			
D803	SLP455B-01	Pause Ind.	IC401	UPC122BH	AF Amp			
D901	SVDEBA0113RA	Stabilizer	IC701	HA1394	Power Amp			
D902	DS135TD	RECT						
D903	DS135TD	RECT						
D904	DS135TD	RECT						
D905	DS135TD	RECT						
COILS AND TRANSFORMERS			CERAMIC FILTERS					
L101	RLQY15S5-0	Choke	CF201	SVF107MA53	FM CFT			
L102	SLQY38S-20	Choke	CF202	QCRZ7455A7W	AM CFT			
L103	SLD4N22-M	FM Ant Coil						
L104	SLQ4N30-M	FM OSC Coil	FUSE					
L105	RLQY75S5-0	Choke	F901	△ XBA2E08NS5	250V 800mA			
L106	RLQY75S5-0	Choke						
L202	SSA4	AM Loop Ant						
L203	SLA2M2-M	MW Ant Coil						
L204	SLA3M16-M	SW1 Ant						
L205	SLA3M18-M	SW2 Ant						
L206	SLQ2M4-M	MW OSC Coil						
L207	RLQ3M18-M	SW1 OSC						
L208	RLQ3M75-M	SW2 OSC						
L801	SLQ0U270-2K	Choke	PACKING					
L802	SLQ9Z38-K	Bias OSC	PA1	SQX50574-2	Inst. Book			
T1	△ SLT5L136-V	Power Trans	PA2	RJP120ZBS-H	Adaptor Plug			
T101	RLI4M101-M	FM IFT	PA3	SPN5478	Carton Box			
T201	QLI2M102-M	AM IFT		SPN5480	Carton Box			
T203	RLI4M101-M	FM IFT		SPN5352	Front Pad			
				SPN5354	Rear Pad			
				SPN5360	SG-V01 (G)			
				SPN5322	SG-V11 (G)			
				SPN5404-1	T/T Pad			
				SPN5404-1	T/T Pad			
				SPN5404-1	SG-V11 (G)			
				SPH6206	Cover			
				SPH6204	SG-V01 (G)			
				SPH6204	Cover			
				XZB75X67C05	SG-V11 (G)			
					Set Cover			
VARIABLE RESISTORS								
VR301	SVNAA14B2-0	Free Run						
VR501/502	EWCSMAF20B54	Tone Volume						
VR503/504	EWCSMAF25B54	Main Volume						
VR505	EWHGFAF20G15	Balance						
VR801	SVNAA24B2-0	Rec Bias						

PARTS LOCATION OF CABINET AND CHASSIS (SG-V01)

The parts without Ref. No. are not supplied.



REPLACEMENT PARTS LIST OF CABINET AND CHASSIS (SG-V01)

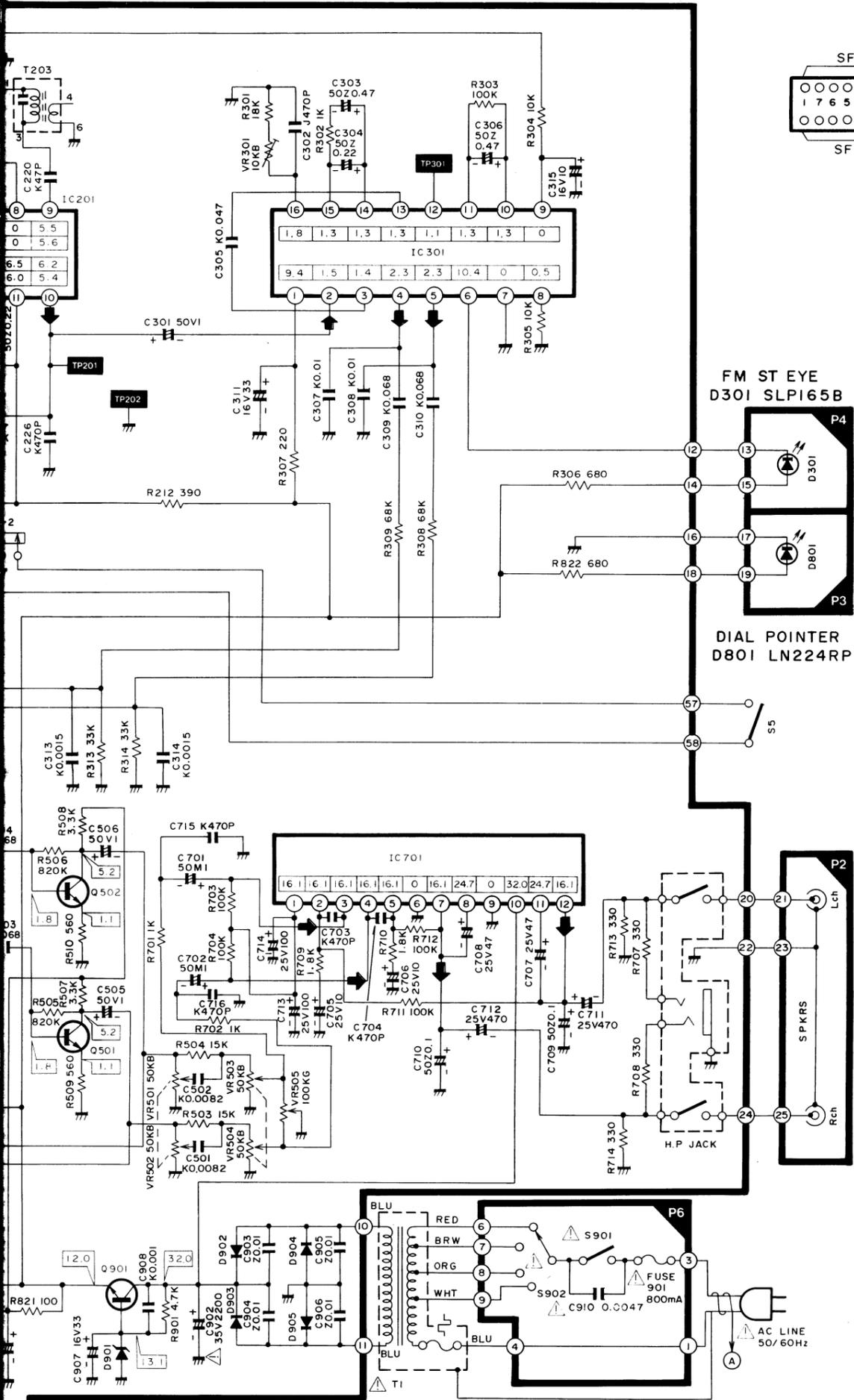
Ref. No.	Part No.	Description	Per Set (pcs.)
1	SKMGV01X	Cabinet Ass'y	1
1-1	SJY342	Arm Rest Ass'y	1
2	SYU462	Bottom Cover Ass'y	1
3	SYE920	Dust Cover Ass'y	1
4	SBH9112-7	Hinge	2
5	SHG9246-1	Cap	1
6	SGWGV01X	Front Panel Ass'y	1
7	SBN1110	Tuning Knob	1
8	SBN1112	Volume Knob	3
9	SBN1068-2	Select Knob	1
10	SBC558	Eject Button	1
11	SGEGV01X-1	Cassette Holder Ass'y	1
12	SGEGV01X	Cassette Lid Ass'y	1
13	SBC560-1	FF Button	1
14	SBC562-1	REW Button	1
15	SBC564-1	Play Button	1
16	SBC566-1	Stop Button	1
17	SBC568-1	REC Button	1
18	SBC570-1	Pause Button	1
19	SMQ4998-1	Eject Spring	1
20	SUS430	Button Spring	6
21	SDT91302	Tuning Shaft	1
22	SDD80-6	Dial Drum	1
23	RDS4170A	Dial Spring	1
24	SDA106	Pointer Holder	1
26	SJY5162	REC LED Spacer	2
27	△ RJA9YA-F	Power Cord	1
28	XCJ6P21E-1	H.P./Mic Jack	2
29	SJF9504	Speaker Terminal	1
30	SJY5208	Start Button	1
31	SJY90394	Player Start Rod	1
32	SUS450	Start Button Spring	1
34	SBC578	Power Button	1
35	SUH166	Power Remote Rod	1
36	SUD370-1	Spacer	1
37	△ RJF107-2	Fuse Holder	2

Items of Assembly Parts.

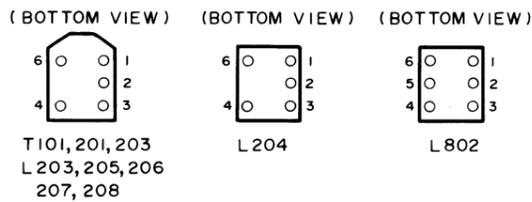
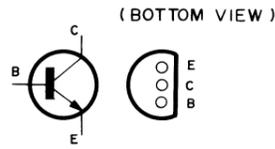
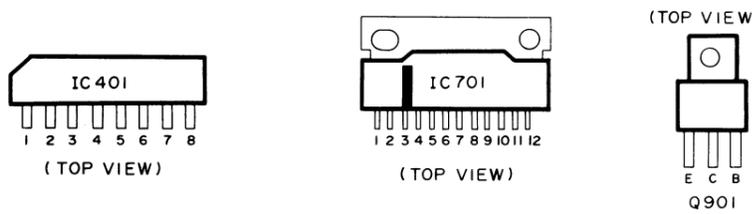
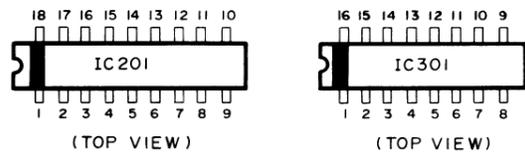
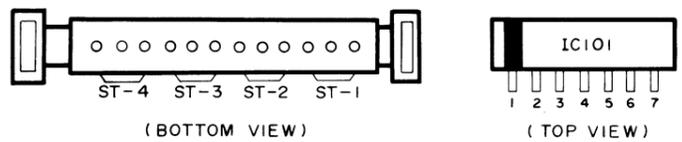
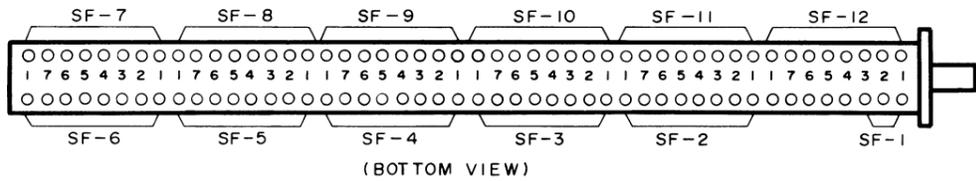
Ref. No.	Part No.	Description	Per Set (pcs.)
1	SKMGV01X	Cabinet Ass'y	1
1-1	SJY342	Arm Rest Ass'y	1
		Cabinet	(1)
		Dust Cover Rubber	(3)
		Stylus Label	(1)
		Foot Felt	(2)
2	SYU462	Bottom Cover Ass'y	1
		Bottom Cover	(1)
		Shield Paper	(1)
3	SYE920	Dust Cover Ass'y	1
		Dust Cover	(1)
		Badge	(1)
6	SGWGV01X	Front Panel Ass'y	1
		Front Panel	(1)
		Dial Scale	(1)
		Foot Felt	(2)
11	SGEGV01X-1	Cassette Holder Ass'y	1
		Cassette Holder	(1)
		Spring	(2)
12	SGEGV01X	Cassette Lid Ass'y	1
		Cassette Lid	(1)
		Transparent Cover	(1)

F PRE AMP
401 μ PC1228H

MPX
IC301 AN7410N



TERMINAL GUIDE



- 1) S1 : PHONO MOTOR SWITCH IN "OFF" POSITION
- S2 : TAPE MOTOR SWITCH IN "OFF" POSITION
- S3 : HEAD PANEL SWITCH IN "OFF" POSITION
- S4 : PAUSE SWITCH IN "OFF" POSITION
- S5 : TAPE PLAY SWITCH IN "OFF" POSITION
- S901 : POWER SWITCH IN "OFF" POSITION
- ST1~4 : REC/PLAY SELECTOR SWITCH IN "PLAY" POSITION
- SFI~12 : FUNCTION SELECTOR SWITCH IN "FM" POSITION
(1.COMMON 2.SW2 3.SW1 4.MW 5.FM 6.PHONO 7.TAPE)

- 2) LETTERS
J,K,M,Z AND P INDICATE TOLERANCE OF CAPACITORS AS FOLLOWS
J=±5%, K=±10%, M=±20%, Z=+80% P=+100%
-20%, -0%

- 3) DC VOLTAGE ARE TO BE MEASURED WITH VTVM UNDER NO SIGNAL CONDITION IN "FM" OR "MW" POSITION

MUTING
Q802,803
2SC945L

POWER AMP
IC701
HA1394

RECT
D902,903,904,905
DS135TD

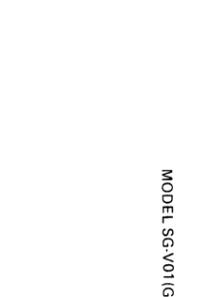
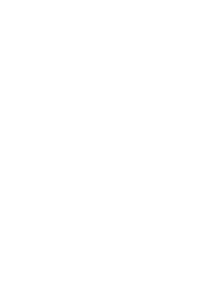
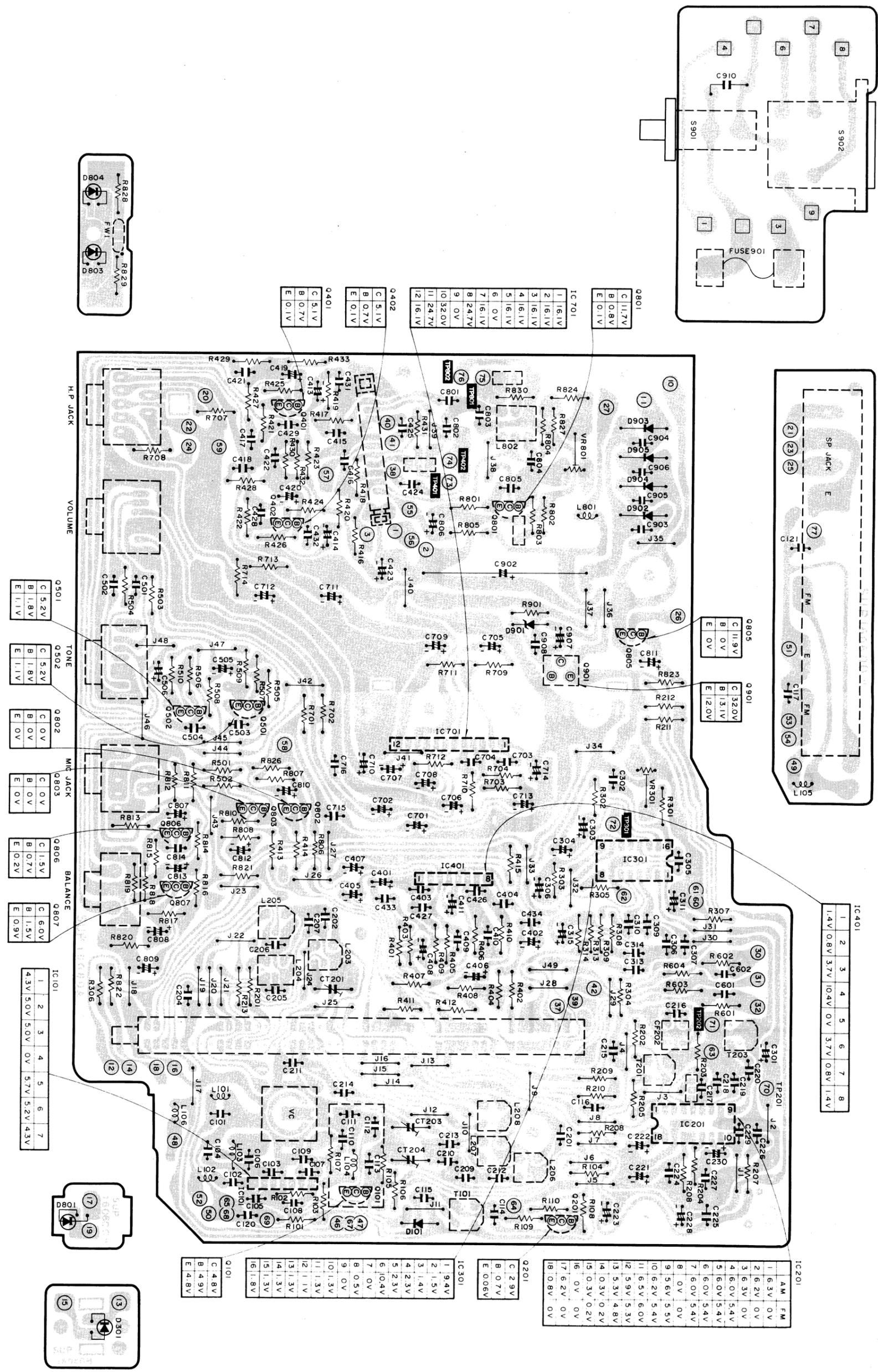
2nd AMP
Q501,502
2SC945L

STABILIZER
Q901 2SD1266
D901 MA1130

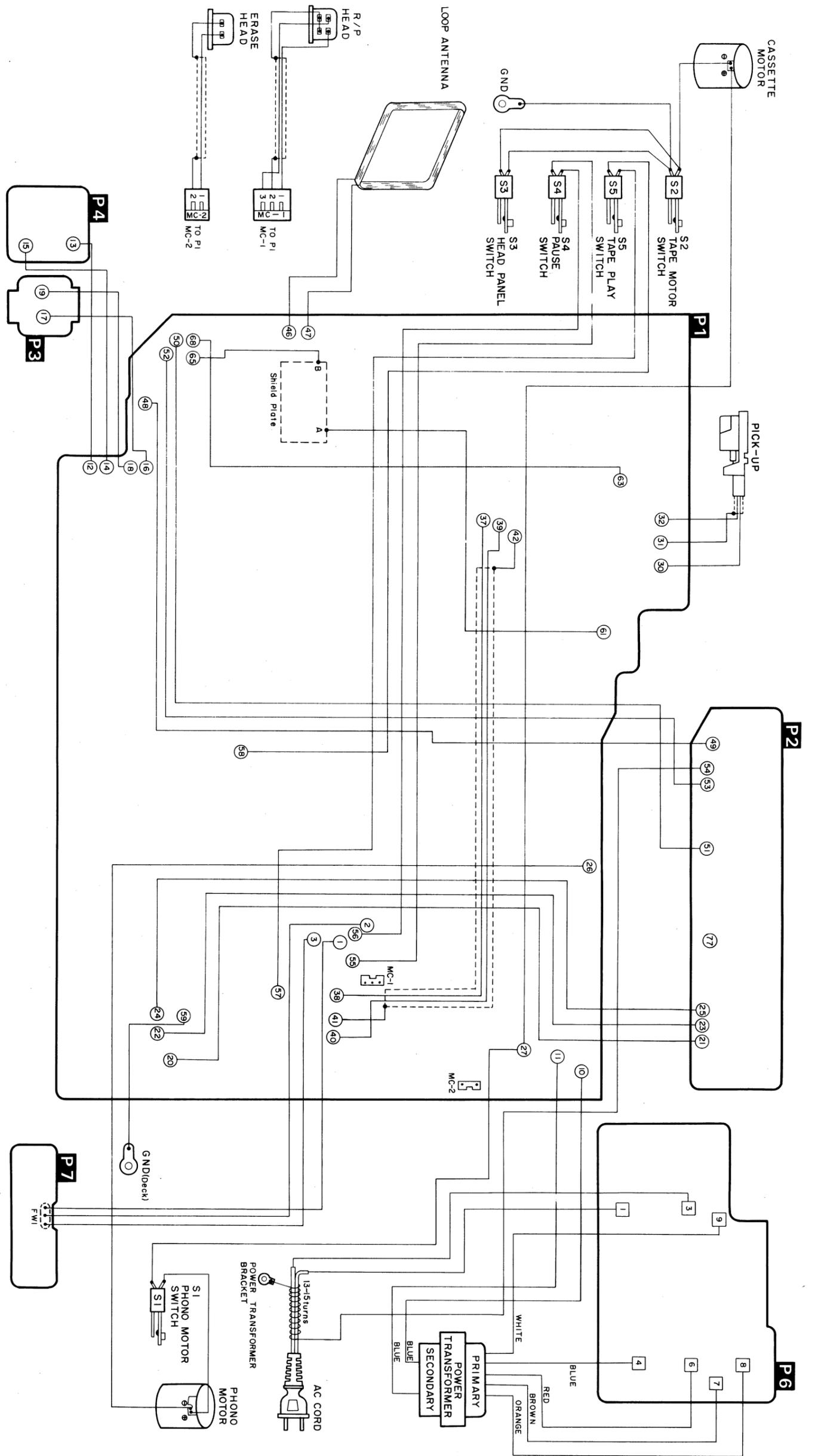
Important safety notice
Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

SCHEMATIC DIAGRAM
MODEL NO. SG-VOIG. VIIG

* This diagram might be modified without notice for further development of technology.



MODEL SG-V01 (G) SO-S-T

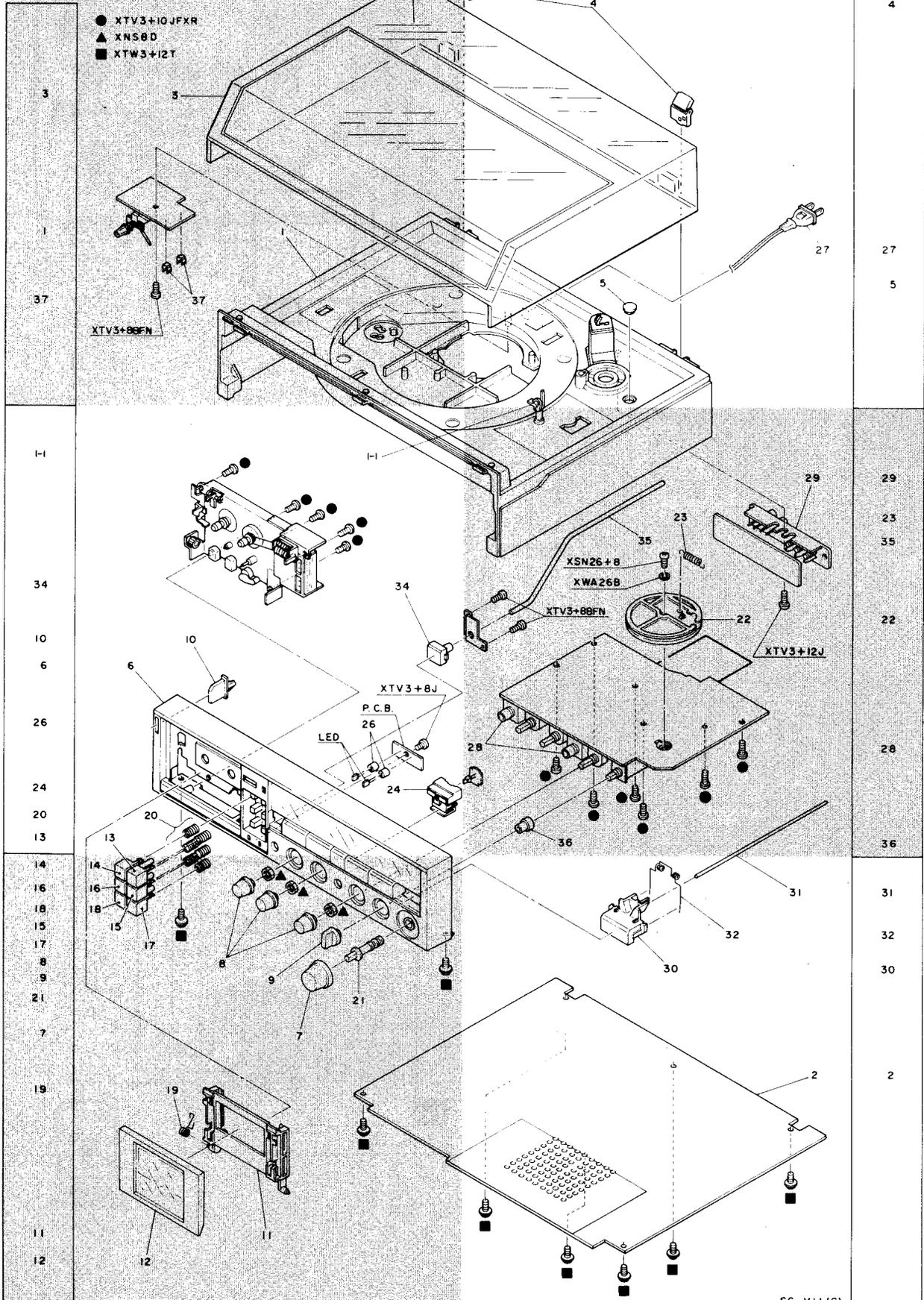


MODEL SG-V01(G) SOS-T

* This diagram might be modified without notice for further development of technology.

PARTS LOCATION OF CABINET AND CHASSIS (SG-V11)

The parts without Ref. No. are not supplied.



SG-V11 (G)

REPLACEMENT PARTS LIST OF CABINET AND CHASSIS (SG-V11)

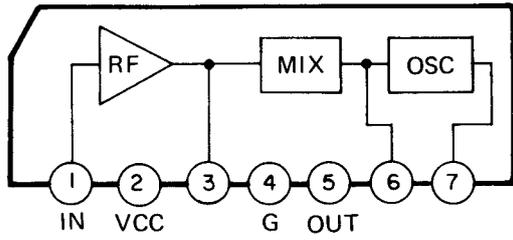
Ref. No.	Part No.	Description	Per Set (pcs.)
1	SKMGV11X	Cabinet Ass'y	1
1-1	SJY342	Arm Rest Ass'y	1
2	SYU462	Bottom Cover Ass'y	1
3	SYE932	Dust Cover Ass'y	1
4	SBH9112-6	Hinge	2
5	SHG9246-1	Cap	1
6	SGWGV01X	Front Panel Ass'y	1
7	SBN1110	Tuning Knob	1
8	SBN1112	Volume Knob	3
9	SBN1068-2	Select Knob	1
10	SBC558	Eject Button	1
11	SGEGV01X-1	Cassette Holder Ass'y	1
12	SGEGV01X	Cassette Lid Ass'y	1
13	SBC560-1	FF Button	1
14	SBC562-1	REW Button	1
15	SBC564-1	Play Button	1
16	SBC566-1	Stop Button	1
17	SBC568-1	REC Button	1
18	SBC570-1	Pause Button	1
19	SMQ4998-1	Eject Spring	1
20	SUS430	Button Spring	6
21	SDT91302	Tuning Shaft	1
22	SDD80-6	Dial Drum	1
23	RDS4170A	Dial Spring	1
24	SDA106	Pointer Holder	1
26	SJY5162	REC LED Spacer	2
27	△ RJA9YA-F	Power Cord	1
28	XCJ6P21E-1	H.P./Mic Jack	2
29	SJF9504	Speaker Terminal	1
30	SJY5208	Start Button	1
31	SJY90394	Player Start Rod	1
32	SUS450	Start Button Spring	1
34	SBC578	Power Button	1
35	SUH166	Power Remote Rod	1
36	SUD370-1	Spacer	1
37	△ RJF107-2	Fuse Holder	2

Items of Assembly Parts.

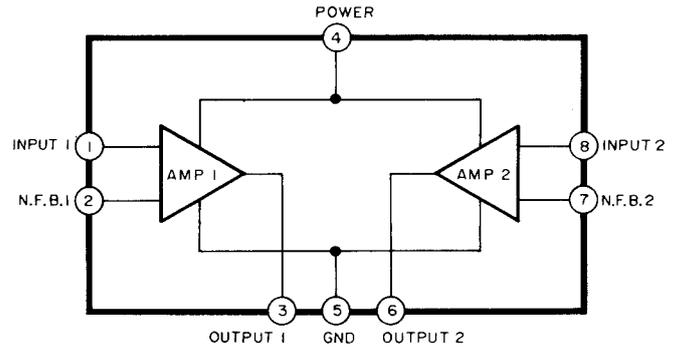
Ref. No.	Part No.	Description	Per Set (pcs.)
1	SKMGV11X	Cabinet Ass'y	1
1-1	SJY342	Arm Rest Ass'y	1
		Cabinet	(1)
		Dust Cover Rubber	(3)
		Stylus Label	(1)
		Foot Felt	(2)
2	SYU462	Bottom Cover Ass'y	1
		Bottom Cover	(1)
		Shield Paper	(1)
3	SYE932	Dust Cover Ass'y	1
		Dust Cover	(1)
		Badge	(1)
6	SGWGV01X	Front Panel Ass'y	1
		Front Panel	(1)
		Dial Scale	(1)
		Foot Felt	(2)
11	SGEGV01X-1	Cassette Holder Ass'y	1
		Cassette Holder	(1)
		Spring	(2)
12	SGEGV01X	Cassette Lid Ass'y	1
		Cassette Lid	(1)
		Transparent Cover	(1)

IC BLOCK DIAGRAM

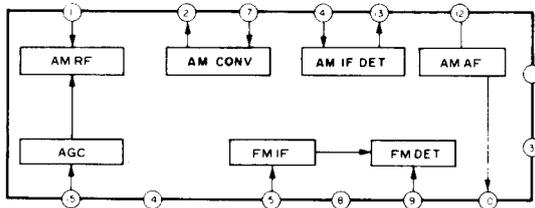
AN7213



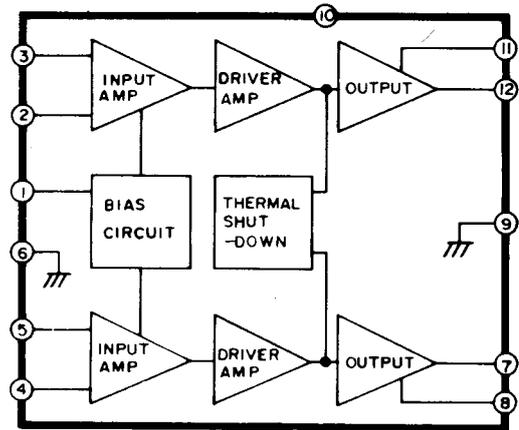
UPC1228H



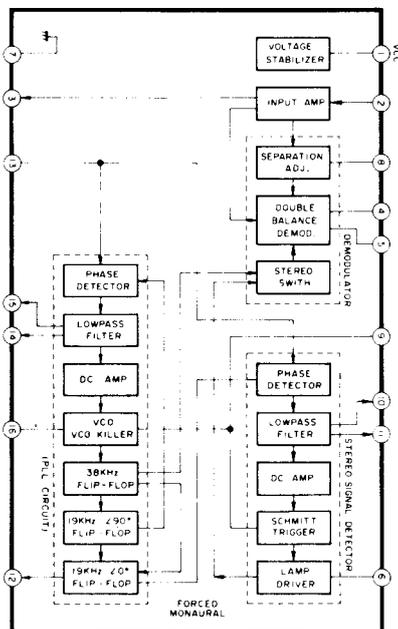
AN7220B



HA1394



AN7410N



PARTS LOCATION OF CASSETTE TAPE DECK

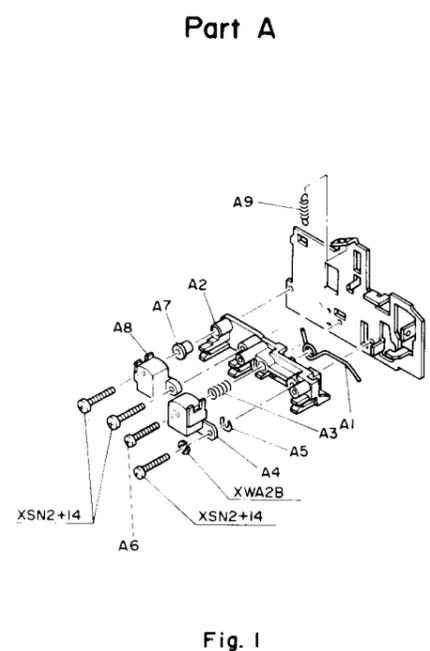


Fig. 1

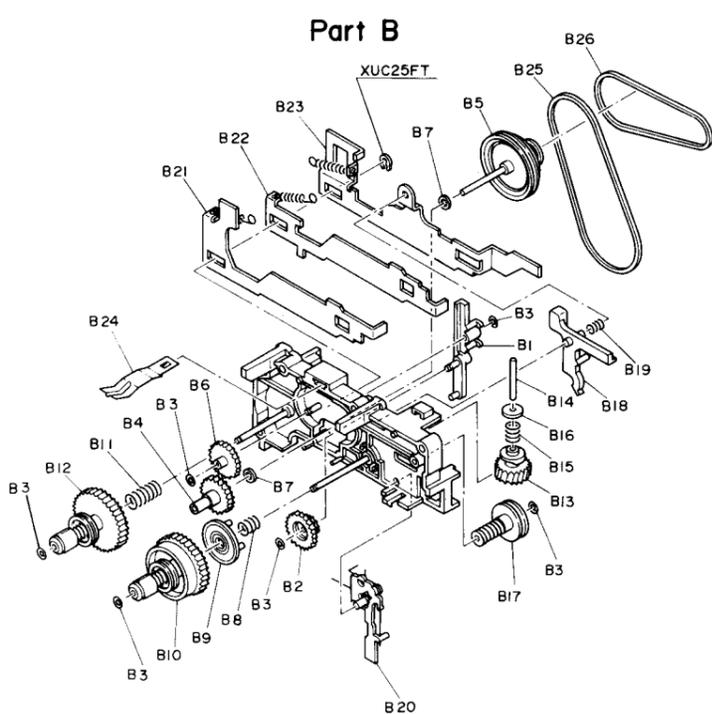


Fig. 2

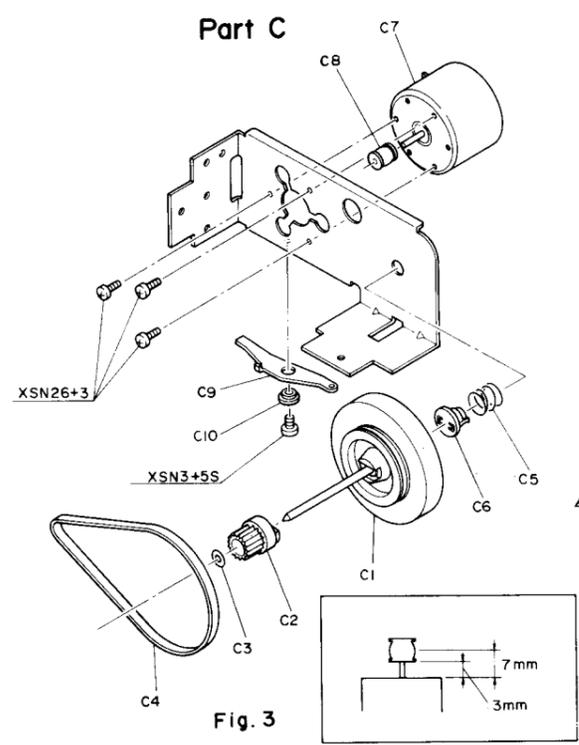


Fig. 3

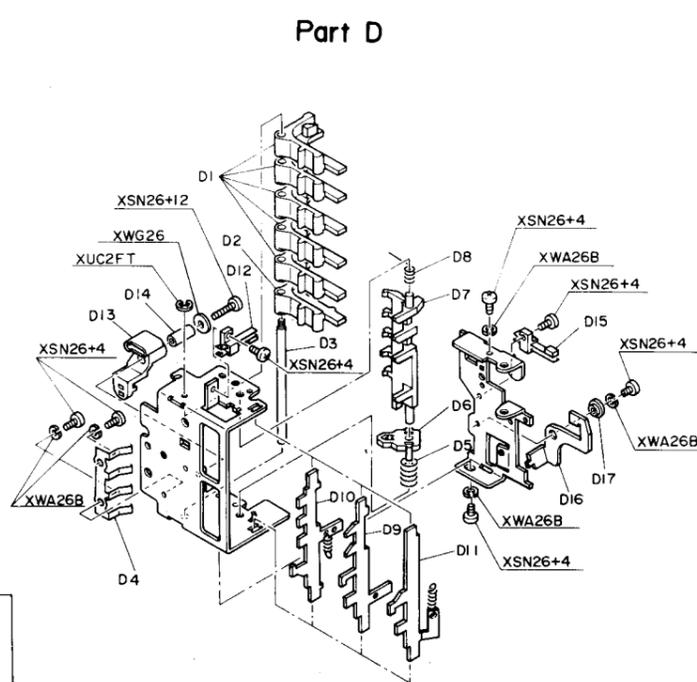
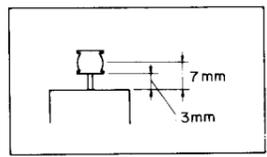


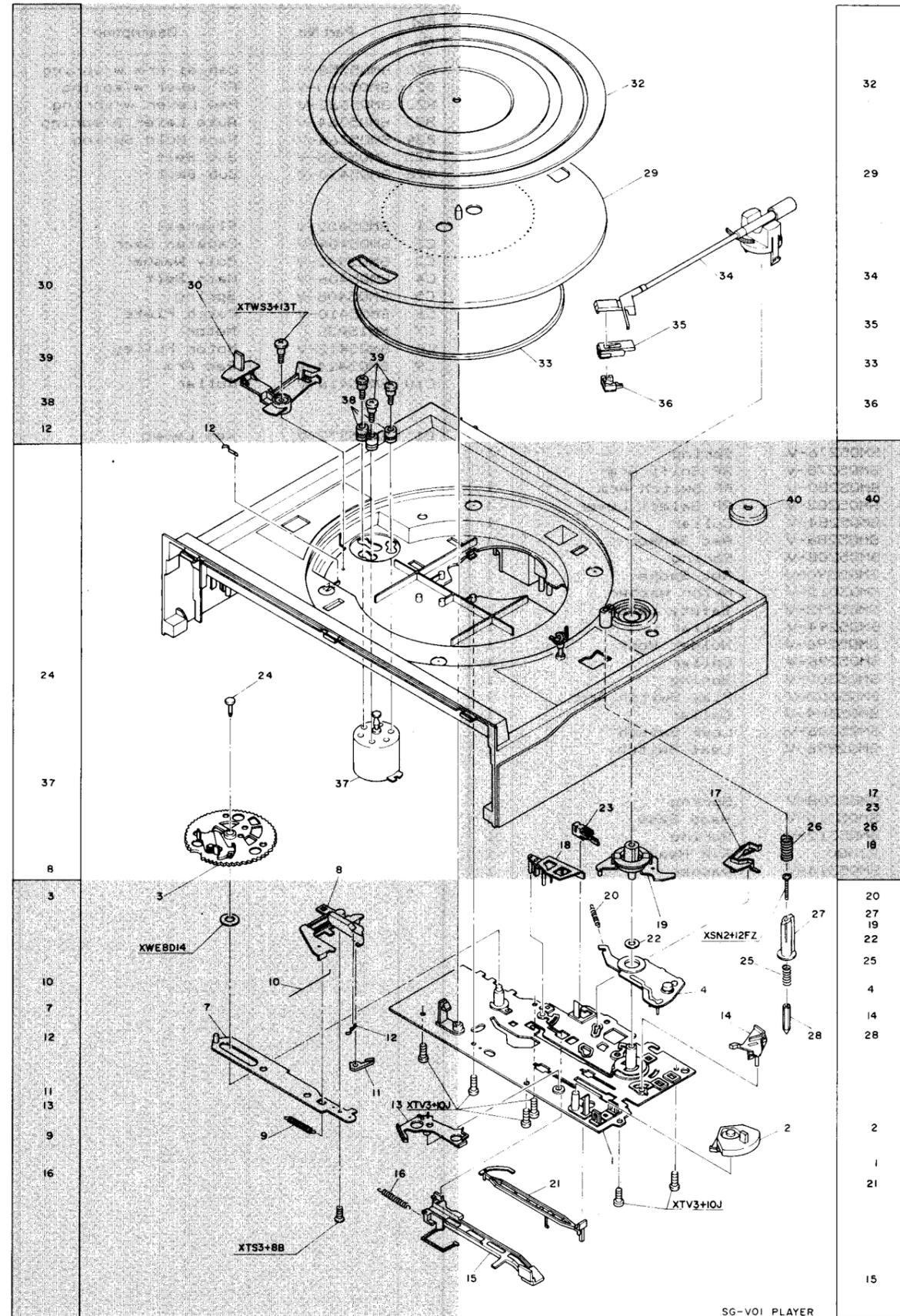
Fig. 4

SJD8F02-1U

REPLACEMENT PARTS LIST OF CASSETTE TAPE DECK

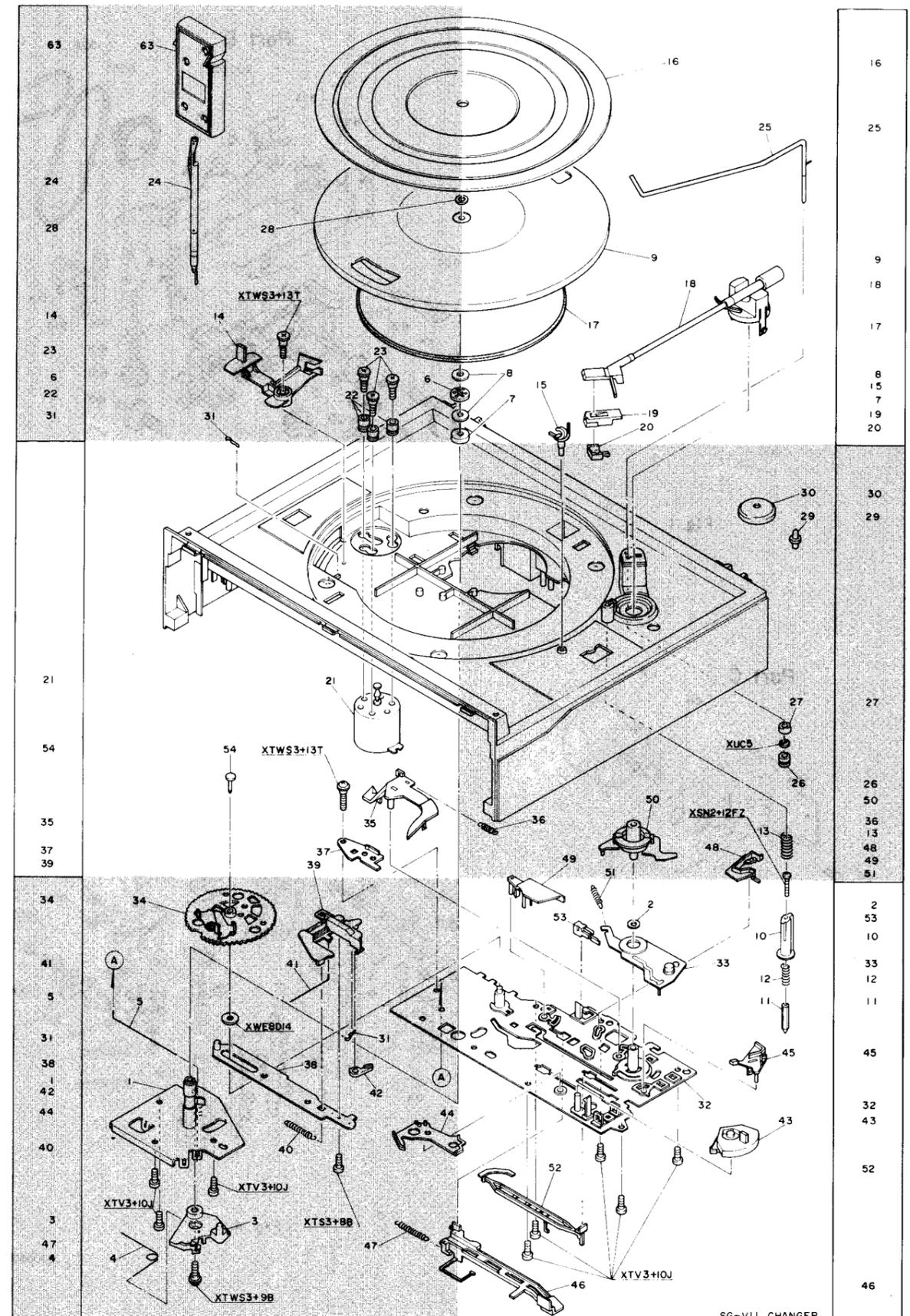
Ref. No.	Part No.	Description	Per Set	Ref. No.	Part No.	Description	Per Set
1	SMQ5232-V	Steel Ball	2	B20	SMQ5358-V	Cancel Arm w/spring	1
2	SMQ5234-V	Brake Shift	1	B21	SMQ5360-V	FF Lever w/spring	1
3	SMQ2858-V	Collar	1	B22	SMQ5362-V	Rew Lever w/spring	1
4	SMQ5236-V	Take up Roller Ass'y	1	B23	SMQ5364-V	Auto Lever w/spring	1
6	SMQ5240-V	Cassette Guide	2	B24	SMQ5366-V	Pack Hold Spring	1
7	SMQ5242-V	Panel Holder	2	B25	SMQ5368-V	Sub Belt	1
8	SMQ5244-V	Pinch Roller Ass'y	1	B26	SMQ5430-V	Sub Belt	1
9	SMQ5246-V	Spring	1				
10	SMQ5248-V	Brake Arm Ass'y	1	C1	SMQ5402-V	Flywheel	1
11	SMQ5250-V	Spring	1	C2	SMQ5404-V	Capstan Gear	1
12	SMQ5252-V	Return Lever	1	C3	SMQ2942-V	Poly Washer	1
13	SMQ5254-V	Spring	1	C4	SMQ5406-V	Main Belt	1
14	SMQ5256-V	RF Drive Gear	1	C5	SMQ5408-V	Spring	1
15	SMQ5258-V	RF Trigger Lever	1	C6	SMQ5410-V	Patch Plate	1
16	SMQ5260-V	Spring	1	C7	MM15A2L	Motor	1
17	SMQ5262-V	Pause Trigger Lever	1	C8	SMQ5412-V	Motor Pulley	1
18	SMQ5264-V	Play Arm	1	C9	SMQ5414-V	Rec Arm	1
19	SMQ5266-V	Spring	1	C10	SMQ5416-V	Collar	1
20	SMQ5268-V	Drive Gear	1				
21	SMQ5270-V	RP Trigger Lever	1	D1	SMQ5372-V	Key Lever	5
22	SMQ5272-V	Spring	1	D2	SMQ5374-V	Pause Key Lever	1
23	SMQ5274-V	Rec Lever	1	D3	SMQ5376-V	Key Lever Shaft	1
24	SMQ5276-V	Spring	1	D4	SMQ5378-V	Key Lever Spring	1
25	SMQ5278-V	RP Shift Arm	1	D5	SMQ5380-V	Spring	1
26	SMQ5280-V	RP Switch Arm	1	D6	SMQ5382-V	Pause Cam	1
27	SMQ5282-V	RP Select Lever	1	D7	SMQ5384-V	Moving Plate	1
28	SMQ5284-V	Collar	1	D8	SMQ5386-V	Spring	1
29	SMQ5286-V	Rec Sensor	1	D9	SMQ5388-V	RF Switch Arm	1
30	SMQ5288-V	Spring	1	D10	SMQ5390-V	Safety Arm w/spring	1
31	SMQ5290-V	Rec Spoke	1	D11	SMQ5392-V	RP Safety Arm w/sp	1
32	SMQ3012-V	Nylon Washer	1	D12	SMQ5394-V	Leaf Switch	1
33	SMQ5292-V	Safety Lever	1	D13	SMQ5396-V	Rec Operation Lever	1
34	SMQ5294-V	Collar	1	D14	SMQ5398-V	Collar	1
35	SMQ5296-V	Holder Hook	1	D15	SMQ5306-V	Leaf Switch	1
36	SMQ5298-V	Collar	1	D16	SMQ5400-V	Pause Switch	1
37	SMQ5300-V	Spring	1	D17	SMQ5304-V	Collar	1
38	SMQ5302-V	Play Switch Arm	1				
39	SMQ5304-V	Collar	1	K1	SMQ4990	Tape Counter	1
40	SMQ5306-V	Leaf Switch	1	K2	SMQ4066	Counter Belt	1
41	SMQ2996-V	Leaf Switch	1	K3	SMQ4096	Eject Gear	1
				K4	SMQ4996	Rec Spoke	1
A1	SMQ5308-V	Spring	1				
A2	SMQ5310-V	Head Base	1				
A3	SMQ5312-V	Spring	1				
A4	SJH80	R/P Head	1				
A5	SMQ5314-V	Washer	1				
A6	SMQ5316-V	Screw	1				
A7	SMQ5318-V	Collar	1				
A8	SJH62	Erase Head	1				
A9	SMQ5238-V	Spring	1				
B1	SMQ5320-V	RF Arm Ass'y	1				
B2	SMQ5322-V	RF Gear	1				
B3	SMQ5324-V	Washer	6				
B4	SMQ5326-V	FF Gear	1				
B5	SMQ5328-V	RF Pulley Ass'y	1				
B6	SMQ5330-V	Rew Gear	1				
B7	SMQ5332-V	Poly Washer	2				
B8	SMQ5334-V	Spring	1				
B9	SMQ5336-V	Sensing Wheel Ass'y	1				
B10	SMQ5338-V	FF Reel Base Ass'y	1				
B11	SMQ5340-V	Spring	1				
B12	SMQ5342-V	Rew Reel Base Ass'y	1				
B13	SMQ5426-V	Auto Worm Gear	1				
B14	SMQ5346-V	Shaft	1				
B15	SMQ5348-V	Spring	1				
B16	SMQ5350-V	Poly Washer	1				
B17	SMQ5428-V	Relay Pulley Gear	1				
B18	SMQ5354-V	Auto Arm	1				
B19	SMQ5356-V	Spring	1				

PARTS LOCATION OF RECORD PLAYER (SG-V01)



SG-V01 PLAYER

PARTS LOCATION OF RECORD CHANGER (SG-V11)



SG-V11 CHANGER

REPLACEMENT PARTS LIST OF RECORD PLAYER AND RECORD CHANGER

RECORD PLAYER (SG-V01)

Ref. No.	Part No.	Description	Per Set
1	SJY402	Base Plate Assembly	1
2	SJY90074-2	Lever, Record Size	1
3	SJY416	Main Gear Assembly	1
4	SJY406	PU Moving Plate	1
7	SJY398	Operating Plate Ass'y	1
8	SJY90014-2	Bracket, Operating Plate	1
9	SJY90066-1	Spring A, Operating Plate	1
10	SJY90068-1	Spring B, Operating Plate	1
11	SJY90016	Operating Plate, Tone Arm	1
12	SJY90018-1	Spring Plate	2
13	SJY90020	Index Lever	1
14	SJY90022-1	Clamp Plate	1
15	SJY90224	Start Plate	1
16	SJY90302	Spring, Start Plate	1
17	SJY90026	Operating Plate A	1
18	SJY90028-4	Operating Plate B	1
19	SJY90030-1	Tone Arm Plate	1
20	SJY90072	Spring, Tone Arm Plate	1
21	SJY90032-1	Actuating Plate	1
22	SNW622-3	Washer	1
23	SSP66	Switch, Motor	1
24	SHR9174	Stopper Pin, Main Gear	1
25	SJY90160	Spring A, Lifter	1
26	SUS84-2	Spring B, Lifter	1
27	SJY5196-2	Lifter	1
28	SJY90034	Pin, Lifter	1
29	SJY530	Turntable Ass'y	1
30	SJY90076-2	Lever, Speed Select	1
32	SJY4064-1	Turntable Mat	1
33	SJY90080	Turntable Belt	1
34	EPA641STE	Tone Arm	1
35	EPC13STH	Cartridge	1
36	EPS41ST	Stylus	1
37	MMIV03	Motor Ass'y	1
38	SHG9092	Rubber Cushion	3
39	SJY9168	Screw, Motor	3
40	SJY5018-1	EP Adapter	1

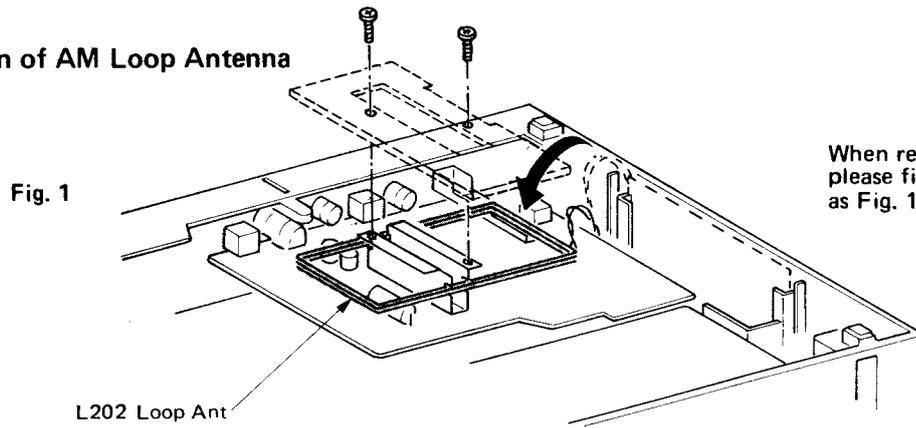
RECORD CHANGER (SG-V11)

Ref. No.	Part No.	Description	Per Set
1	SJY436	Turntable Shaft Ass'y	1
2	SNW622-3	Washer	1
3	SJY90116	Operating Lever A	1
4	SJY90120	Operating Lever Spring	1
5	SJY90122	Lock Spring	1
6	SJY90124	Ball, Turntable	1
7	SJY90126	Rubber Cushion, T/T	1
8	SJY90128	Washer, T/T	2
9	SJY532	Turntable Ass'y	1
10	SJY5196-2	Lifter	1
11	SJY90034	Pin, Lifter	1
12	SJY90160	Spring A, Lifter	1
13	SUS84-2	Spring B, Lifter	1
14	SJY90076-2	Lever, Speed Select	1
15	SJY342	Arm Rest Ass'y	1
16	SJY4066-1	Turntable Mat	1
17	SJY90080	Turntable Belt	1
18	EPA641STB	Tone Arm	1
19	EPC13STH	Cartridge	1
20	EPS41ST	Stylus	1
21	MMIV03	Motor Ass'y	1
22	SHG9092	Rubber	3
23	SJY9168	Screw, Motor	3
24	SJY428	Multiple-Plug Spindle	1
25	SJY90144	Record Holder Shaft	1
26	SHG9100	Rubber, Record Holder Shaft	1
27	SJY90150	Ring, Record Holder Shaft	1
28	SJY90158	Stop Ring, T/T	1
29	SJY7004	Manual Spindle	1
30	SJY5018-1	EP Adapter	1
31	SJY90018-1	Spring Plate	2
32	SJY432	Base Plate	1
33	SJY406	PU Moving Plate	1
34	SJY416	Main Gear Ass'y	1
35	SJY90154	Select Moving Plate	1
36	SJY90156	Spring	1
37	SJY90118	Operating Lever B	1
38	SJY398	Operating Plate Ass'y	1
39	SJY90014-2	Bracket, Operating Plate	1
40	SJY90066-1	Spring A, Operating Plate	1
41	SJY90068-1	Spring B, Operating Plate	1
42	SJY90016	Operating Plate, Tone Arm	1
43	SJY90074-2	Lever, Record Size	1
44	SJY90020	Index Lever	1
45	SJY90022-1	Clamp Plate	1
46	SJY90224	Start Rod	1
47	SJY90302	Spring, Start Rod	1
48	SJY90026	Operating Plate A	1
49	SJY90028-4	Operating Plate B	1
50	SJY90030-1	Tone Arm Plate	1
51	SJY90072	Spring, Tone Arm Plate	1
52	SJY90032-1	Actuating Plate	1
53	SSP66	Switch, Motor	1
54	SHR9174	Stopper Pin, Main Gear	1
63	SFVA701-1E	Auto 45rpm Adapter	1

SG-V01/SG-V11

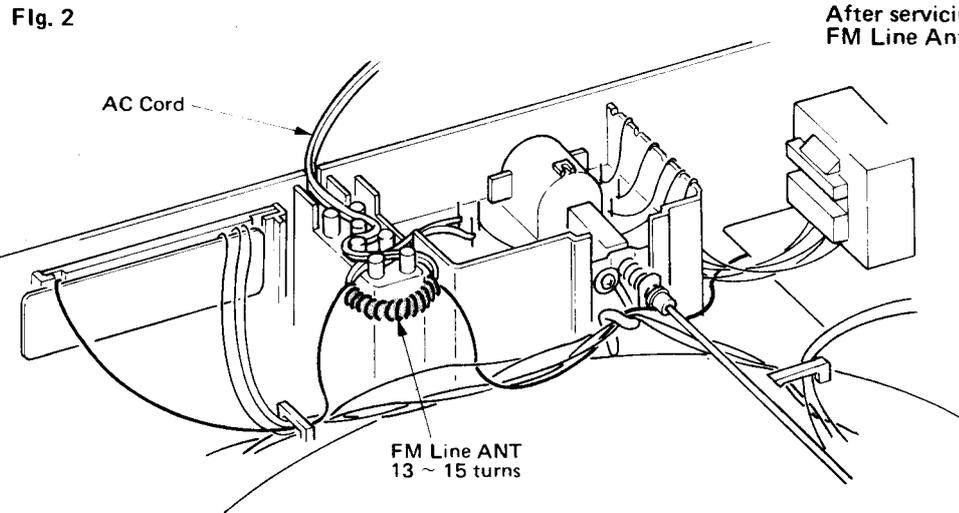
SERVICE AID

■ Disposition of AM Loop Antenna



When repairing the P.C. Board, please fix Loop Antenna (L 202) as Fig. 1.

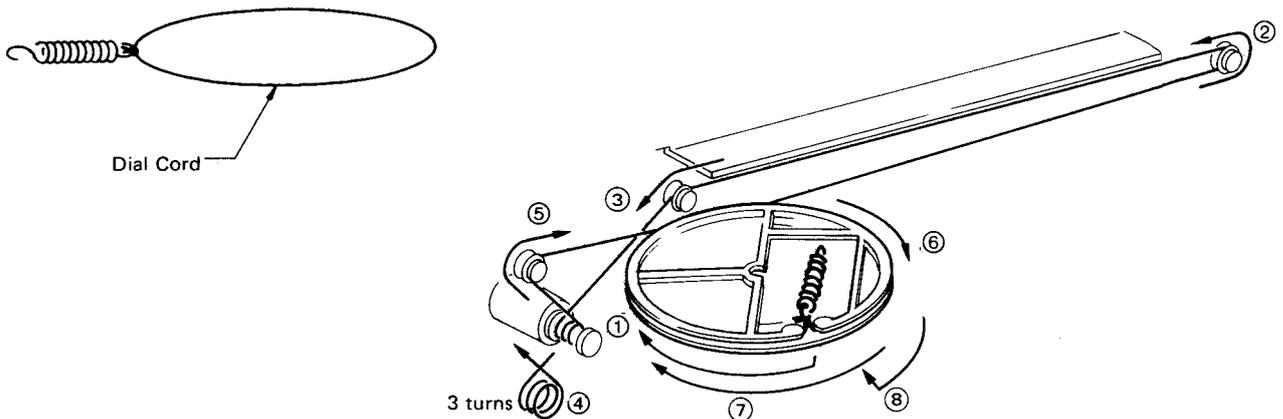
■ Disposition of FM Line Antenna



After servicing, please deal with FM Line Antenna as Fig. 2.

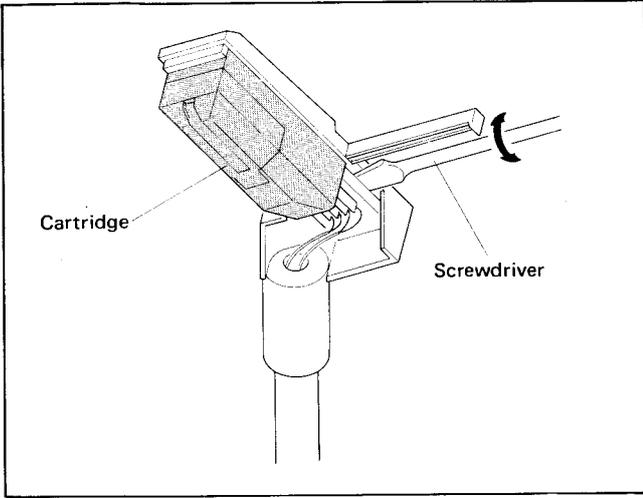
DIAL CORD STRINGING GUIDE

Note:
 Dial Drum Turn Fully Clockwise
 Dial Cord Loop Length 108 cm

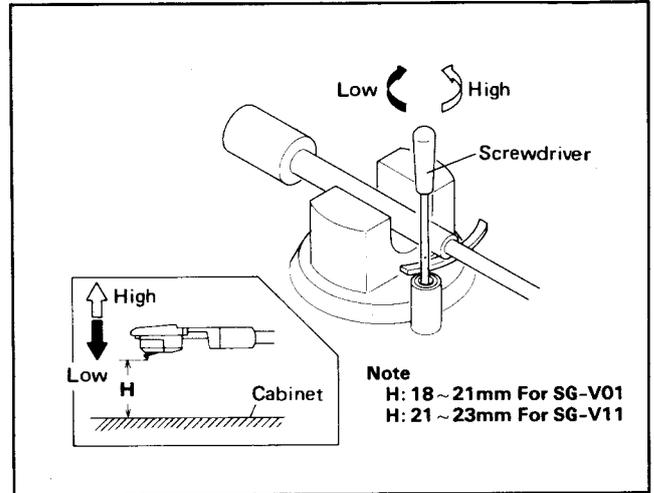


SERVICING THE RECORD PLAYER AND RECORD CHANGER

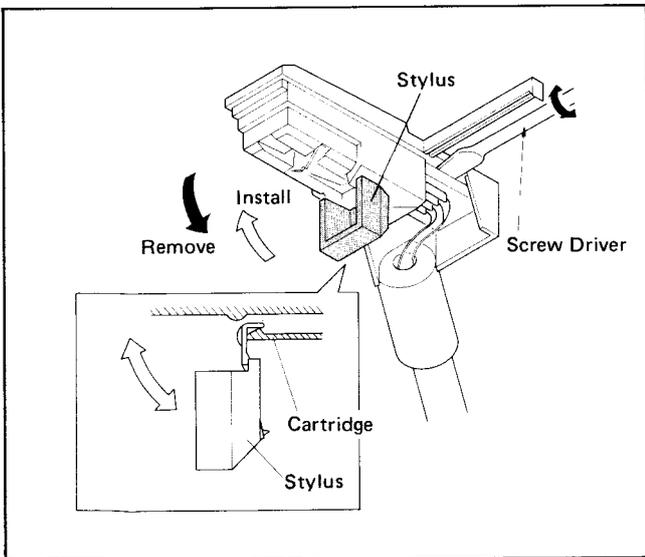
■ CARTRIDGE REPLACEMENT



■ TONE ARM LIFTING HEIGHT ADJUSTMENT

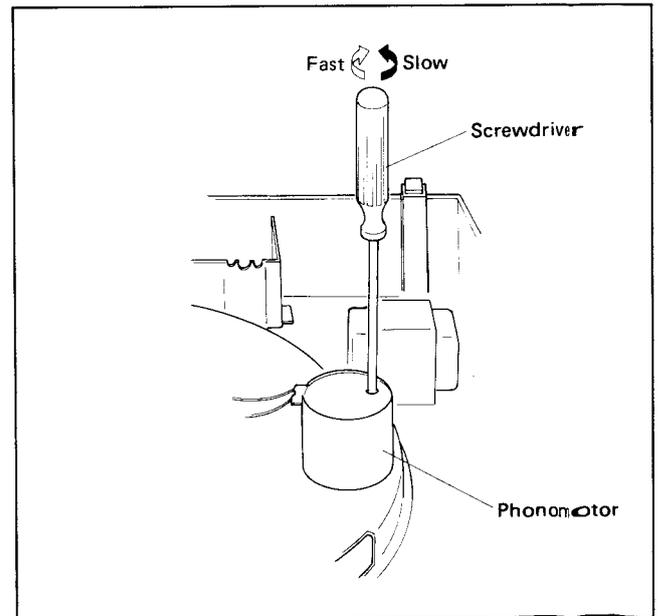


■ STYLUS REPLACEMENT



■ MOTOR SPEED ADJUSTMENT

Adjust the screw when the turntable rotation going out of normal speed.



■ STYLUS DROP POINT ADJUSTMENT

