



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

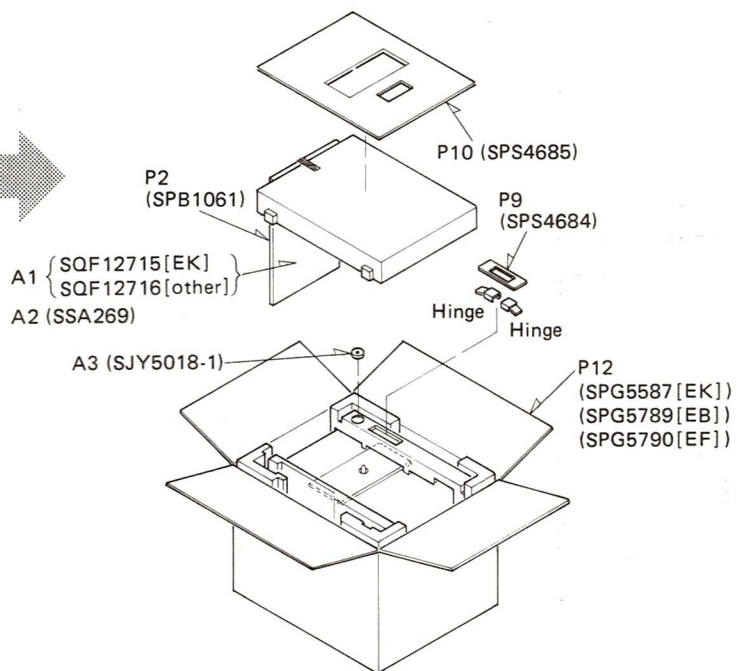
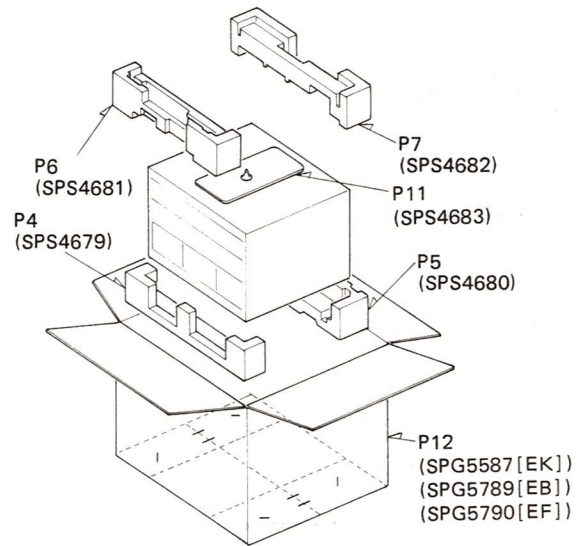
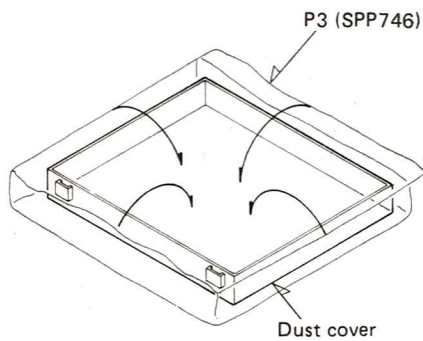
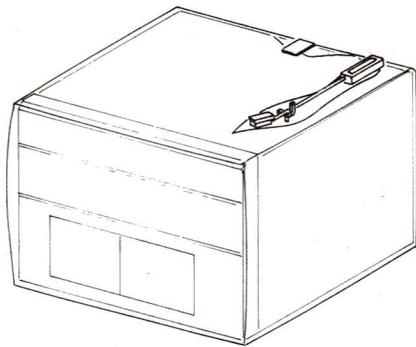
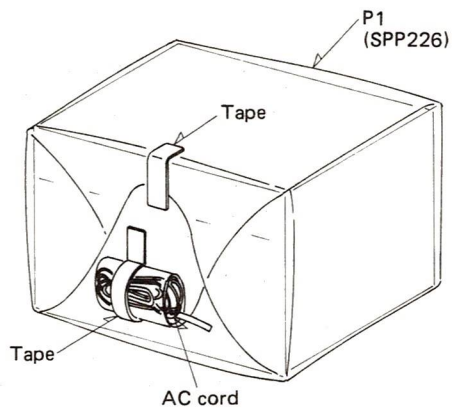
1. **S301-1~S301-4** : Record/Playback selector switch in **"playback"** position.
2. **S401** : Tape 2 motor switch in **"off"** position.
3. **S402** : Tape 1 motor switch in **"off"** position.
4. **S403** : Tape 2 muting switch in **"off"** position.
5. **S404** : Tape 1 muting switch in **"off"** position.
6. **S405** : Rec inhibit (bias on/off) switch in **"off"** position.
7. **S501~S506** : Input selector switch in **"Phono"** position.
S501: CD, S502: tape, S503: phono, S504: FM, S505: MW, S506: LW
8. **S507** : FM mode switch in **"auto"** position.
9. **S701** : Power switch in **"on"** position.
10. **S901** : Player speed selector switch in **"45"** position.
11. **S902** : Player start/stop switch in **"stop"** position.

*	Positive voltage lines		AM signal
	AM OSC signal		FM OSC signal
	FM signal		PB signal
	Phono Lch		MIC signal

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

Original part No.	Supplier part No.
SVD1S2473	MA162A
MA1082	SVDMZ308A1

PACKING

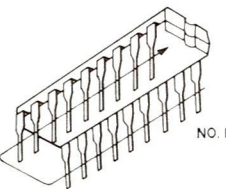
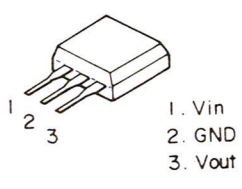
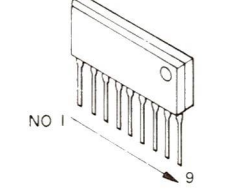
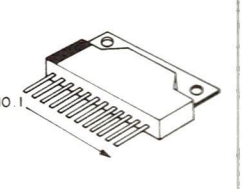
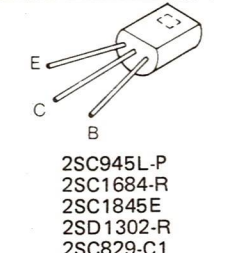
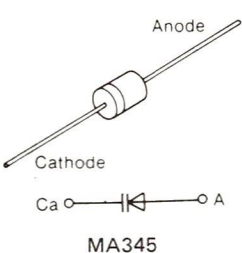
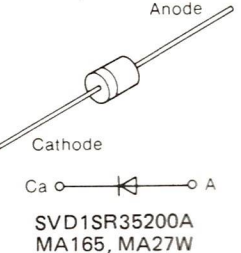
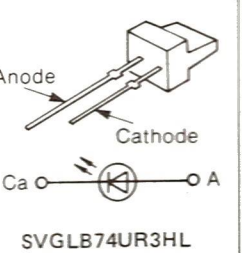
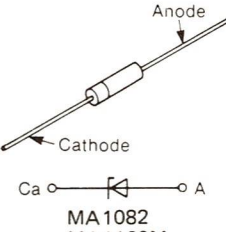


REPLACEMENT PARTS LIST

- Notes:** 1. Part numbers are indicated on most mechanical parts.
Please use this part number for parts order.
2. 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.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
INTEGRATED CIRCUITS			COILS			VARIABLE CAPACITOR		
IC201	AN7205	IC (MESA)	D601	MA1180M	Diode	VR502	EWXC7AF20A15	Volume, 100k (A)
IC202	AN7273B	IC	D701~704 Δ	SVD1SR35200A	Rectifier	VR503	EWATA3×0AA54	G. E. 50k (A) (MESA)
IC203	AN7420	IC	D705	MA1130M	Diode	VR504~506	EWATA3×0AG54	G. E. 50k (A) (MESA)
IC501	AN7310N	IC (MESA)	D706	SVGLB74UR3HL	L. E. D	VR507	EWATA3×0AA54	G. E. 50k (A) (MESA)
IC601 Δ	AN7147N	IC (MESA)	D901	MA162A	Diode	VR901	EVNK6AA00B13	45rpm, 1k (B)
IC901	AN6610	IC	TRANSFORMERS			VR902	EVNK6AA00B23	33rpm, 2k (B)
TRANSISTORS			CERAMIC FILTERS			SWITCHES		
Q201	2SC829-C1	Transistor	L201	SLF6C1-0	MW Bar Antenna (MESA)	CT201~204 (with CT201~204)	RCV4RC2V2K-M	Tuning (MESA)
Q301, 302	2SC1845E	Transistor	L202	SLA2B9-P	MW Antenna	CT205, 206	ECRHA020D41	Trimmer
Q303, 304	2SC945L-P	Transistor	L203	SLO2B15-M	MW OSC	DIODES		
Q305, 306	2SC1845E	Transistor	L204	SLD4N27-O	FM RF	S301	SSS165	P/R Switch
Q307~310	2SC945L-P	Transistor	L205	SLO4P148-M	FM OSC (MESA)	S401	SMQT1451	TAPE2 Motor
Q401, 402	2SD1302-R	Transistor	L208	SLA1B6-K	LW Antenna	S402	SMQT1451	TAPE1 Motor
Q501	2SC945L-P	Transistor	L209	SLO1B7-M	LW OSC	S403	SMQT1466	TAPE2 Mute
Q503~510	2SC945L-P	Transistor	L401	SLO9Z15-M	Bias OSC (MESA)	S404	SMQT1466	TAPE1 Mute
Q511, 512	2SC1684-R	Transistor	VARIABLE RESISTORS			S405	SMQT1615	Rec Switch (Tape 2 only)
Q701 Δ	2SC1846-R	Transistor	T201, 202	SLI4B108-M	FM IFT	S501~507	SSH731	Input Selector (MESA)
DIODES			T203(EK)	SLI2B111-M	AM IFT	S701Δ	SSH1071	Power Switch
D201	MA345	Diode	T203(other)	SLI2B105-M	AM IFT	S901	SSS138	Phono Speed
D202, 203	MA162A	Diode	T701(EK) Δ	SLT5K240-M	Power Transformer (MESA)	S902	SSP66	Phono Motor
D204	SVGLB74UR3HL	L. E. D.	T701(other) Δ	SLT5K239-M	Power Transformer (MESA)	FUSES		
D205	MA27W-A	Diode	CERAMIC FILTERS			F701(EK) Δ	XBA2C12TBO	250V, T1.25A
D401	MA27W-A	Diode	CF201	SVFE107MA5	FM 10.7MHz	F701(other) Δ	XBA2C12TRO	250V, T1.25A
D402~404	MA162A	Diode	CF202(EK)	SVFSFU468B	AM 468kHz	IC PROTECTOR		
D405	SVGLB74UR3HL	L. E. D.	CF202(other)	SVFSFU450B3	AM 450kHz	ICP701(EK)	SRUF10	IC Protector (MESA)
D501	SVDMZ308A1	Diode	VARIABLE RESISTORS			IC PROTECTOR		
			VR201	SVNAA53B2-Q	MPX VCO, 5k (B)	IC PROTECTOR		
			VR401	EVNK4AA00B24	Bias, 20k (B)	IC PROTECTOR		
			VR501	EWATJ3×0AG15	Balance, 100k (G) (MESA)	IC PROTECTOR		

Terminal guide of IC's, transistors and diodes

 AN7273B	 AN6610	 AN7205, AN7420 AN7310	 AN7147N
 2SC945L-P 2SC1684-R 2SC1845E 2SD1302-R 2SC829-C1	 MA345	 SVD1SR35200A MA165, MA27W	 SVGLB74UR3HL
 MA1082 MA1130M			

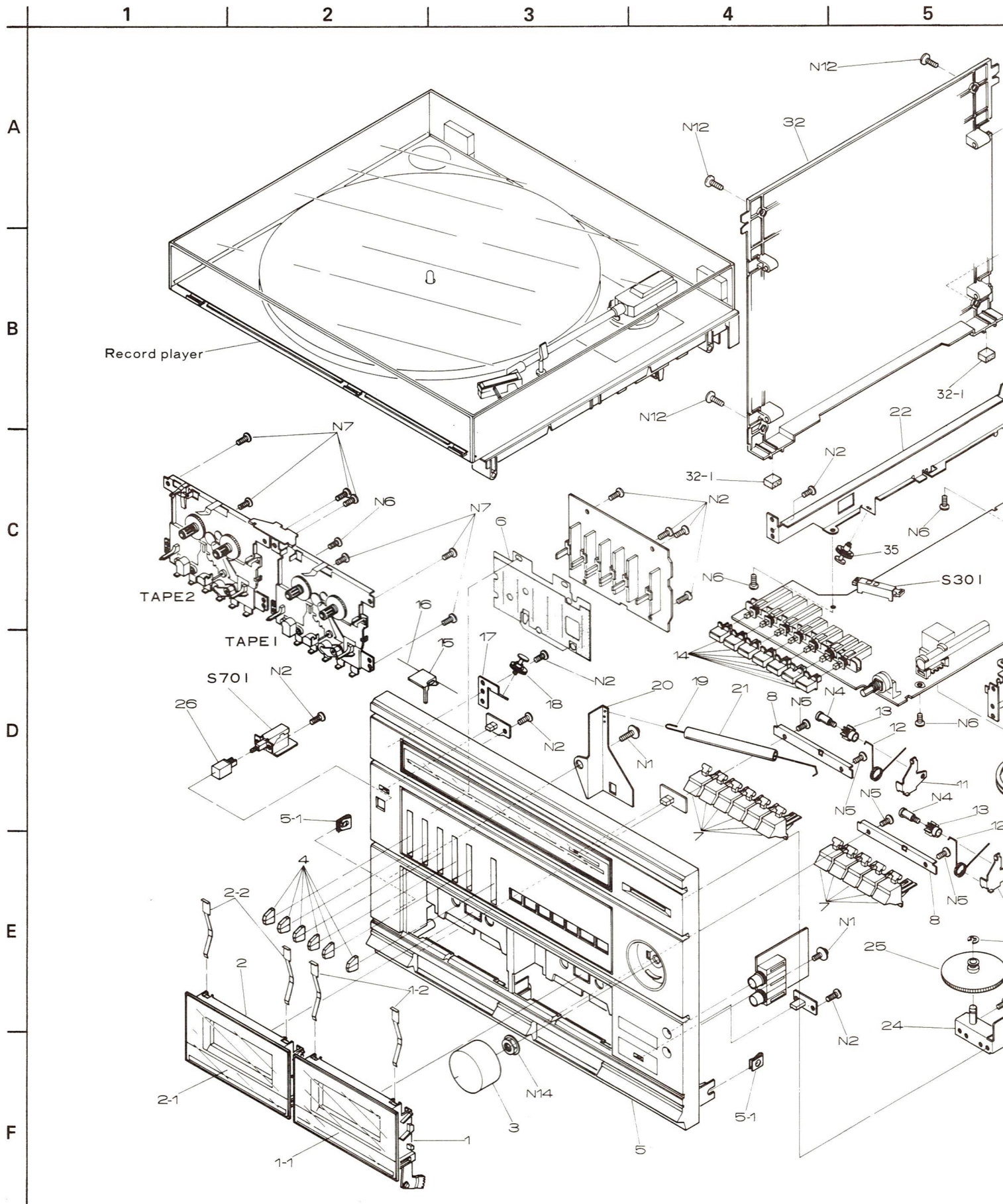
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
CABINET AND CHASSIS PARTS					
1	SGXGD15-KM	Cassette Holder Tape1 (MESA) (1)	N10	XTB4+8F	Screw, $\Phi 4 \times 8$ (2)
(1-1)	(SGK1988	Ornament Plate (MESA) (1)	N11	XTW3+10TFR	Screw, $\Phi 3 \times 10$ (2)
1-2	(SMQ60007	Spring, Holder (2)	N12	XTB4+12JFZ	Screw, $\Phi 4 \times 12$ (8)
2	SGXGD15-KM1	Cassette Holder Tape2 (MESA) (1)	N13	XTW3+10T	Screw, $\Phi 3 \times 10$ (6)
(2-1)	(SGK1989	Ornament Plate (MESA) (1)	N14	SNE4021	Nut (1)
2-2	(SMQ60007	Spring, Holder (2)	RECORD PLAYER PARTS		
3	SBN1203	Knob, Volume (MESA) (1)	50	SJY5218	PU Rest (1)
4	SBD118	Knob, Graphic Equalizer Volume (6)	51	SJYGD15-KM	Player Board (MESA) (1)
5	SGYGD15L-KK	Front Panel (MESA) (1)	52	SBN1132	Knob (1)
(5-1)	(SNE4060	Bracket (2)	53	SJY5223	Operating Plate (1)
6	SJ1135	Cover, Volume (MESA) (1)	54	SJY5222	Drive Lever (MESA) (1)
7	SBC790	Button, Operation (MESA) (1)	55	MMNGD15-KM	Motor Ass'y (MESA) (1)
8	SUW2995	Holder, Button (MESA) (2)	56	SHG9260	Motor Rubber (2)
9	SUS787	Spring, Rope (MESA) (1)	57	SJY90456	Motor Angle (MESA) (1)
10	SDD62-2	Drum, Dial (MESA) (1)	58	SJY90080-1	Belt (1)
11	SMQ30030	Bracket, Dumper (2)	59	SJYGX7-KM1	Operating Plate Ass'y (MESA) (1)
12	SMQ60019	Spring (2)	60	SJY90406	Spring (1)
13	SMQ4096	Gear (2)	61	SJYGD15-KM1	Gear Ass'y (MESA) (1)
14	SBC663-1	Button, Selection (7)	62	SHR417	Lock Pin (MESA) (1)
15	SDP1196	Indicator, Dial (1)	63	SUS786	Spring (MESA) (1)
16	SDZ051-2	Rope (1.4m) (1)	64	SJY5220	PU Fixing Arm (MESA) (1)
17	SUR166	Bracket, Roller (MESA) (1)	65	SJY5221	PU Cam (MESA) (1)
18	SDR31	Roller (3)	66	SJY90455	Spoke Lever (MESA) (1)
19	SUB252	Rod, Rec (MESA) (1)	67	SKM7540-2	Arm Base (MESA) (1)
20	SUB250	Angle, Rec (MESA) (1)	68	SJY5224-2	Lifter (MESA) (1)
21	W5.6UTB10	Tube, Rod (MESA) (1)	69	SHG9246-1	Rubber (1)
22	SUW2994	Bracket, Main Circuit Board (MESA) (1)	70	SJYGX7-KM	Turn Table Ass'y (1)
23	SUW2996	Bracket, Roller (MESA) (1)	71	SYE1026-4	Dust Cover (MESA) (1)
24	SDTGD15-KM	Bracket, Roller/Knob (MESA) (1)	72	SBH9383	Hinge (2)
25	SBN1196	Knob, Tuner (1)	74	EPA645STA	Tonearm (MESA) (2)
26	SBC489	Button, Power (1)	75	EPC13STH	Cartridge (1)
27	SJF8047-1N	Terminal Plate (MESA) (1)	76	EPS41ST	Stylus (1)
28(EK) Δ	QFC1205M	Power Cord (1)	77	SJY4075	Turn Table Sheet (1)
28(other) Δ	SJA138-3	Power Cord (1)	SCREWS AND WASHER		
29	SKUGD15L-KK	Bottom Board (MESA) (1)	N30	XTB3+10G	Screw, $\Phi 3 \times 10$ (2)
30	SUW2991-1	Bracket (MESA) (1)	N31	XWE8D14	Washer (1)
31(EK)	SHR129	Holder, Power Cord (1)	N32	XTN26+18FFZ	Screw, $\Phi 2.6 \times 18$ (1)
31(other)	SHR127	Holder, Power Cord (1)	ACCESSORIES		
32(EK)	SKMGD15L-KK	Side Panel (MESA) (2)	A1(EK)	SQF12715-1	Instruction Book (MESA) (1)
(32-1)	(SHS3276	Foot (4)	A1(other)	SQF12839	Instruction Book (MESA) (1)
32(other)	SKMGD15-KM	Side Panel (MESA) (2)	A2	SSA269	FM Antenna Cord (1)
(32-1)	(SHS3276	Foot (4)	A3	SJY5018-1	EP Adaptor (1)
33(EK)	SGPGD15L-KK	Rear Panel (MESA) (1)	PACKING PARTS		
33(other)	SGPGD15L-KE	Rear Panel (MESA) (1)	P1	SPP226	Set Cover (1)
35	SDR31-1	Roller (MESA) (1)	P2	SPB1061	Polyethylene Bag (Instruction Book) (1)
SCREWS			P3	SPP746	Dust Cover Bag (MESA) (1)
N1	XTWS3+10Q	Screw, $\Phi 3 \times 8$ (2)	P4	SPS4679	Pad, (MESA) (1)
N2	XTB3+10G	Screw, $\Phi 3 \times 10$ (2)	P5	SPS4680	Pad, (MESA) (1)
N3	XYN26+F7	Screw, $\Phi 2.6 \times 7$ (1)	P6	SPS4681	Pad, (MESA) (1)
N4	SNE2120	Screw, Damper Gear (2)	P7	SPS4682	Pad, (MESA) (1)
N5	XTS3+10J	Screw, $\Phi 3 \times 10$ (4)	P9	SPS4684	Pad, (MESA) (1)
N6	XTB3+8J	Screw, $\Phi 3 \times 8$ (7)	P10	SPS4685	Pad, (MESA) (1)
N7	XTB3+10GFR	Screw, $\Phi 3 \times 10$ (7)	P11	SPS4683	Pad, (MESA) (1)
N8	XTB3+8JFZ	Screw, $\Phi 3 \times 8$ (2)	P12(EK)	SPG5587	Carton Box (MESA) (1)
N9	XUC4	Retaining Ring (1)	P12(EF)	SPG5790	Carton Box (MESA) (1)
			P12(EB)	SPG5789	Carton Box (MESA) (1)

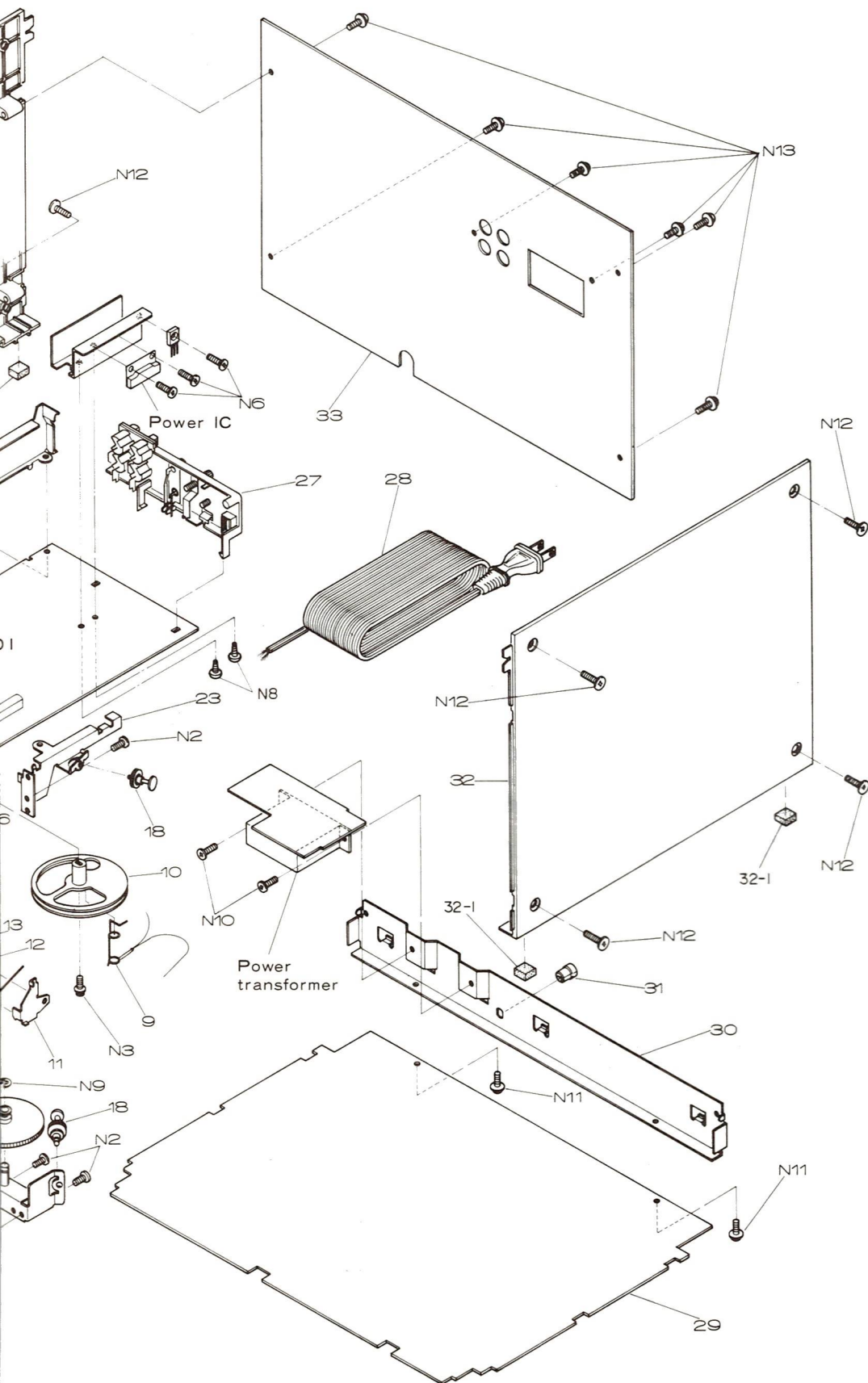
● Change of Parts List (SG-D15AL from SG-D15L)

Ref. No.	Change of part No.		Part Name & Description	Pcs/Set	Remarks
	SG-D15L [EK]	SG-D15AL [EK]			
CABINET and CHASSIS PARTS					
1	SGXGD15-KM	SGXGD15AL-KK	Cassette Holder Tape1	1	(MESA)
[1-1	[SGK1988	[SGK1988-1	Ornament Plate	1	(MESA)
2	SGXGD15-KM1	SGXGD15ALKK1	Cassette Holder Tape2	1	(MESA)
[2-1	[SGK1989	[SGK1989-1	Ornament Plate	1	(MESA)
5	SGYGD15L-KK	SGYGD15AL-KK	Front Panel	1	(MESA)
33	SGPGD15L-KK	SGPGD15AL-KK	Rear Panel	1	(MESA)
ACCESSORIES					
A1	SQF12715-1	SQF12842	Instruction Book	1	(MESA)
PACKING					
P12	SPG5587	SPG5791	Carton Box	1	(MESA)

EXPLODED VIEWS

Cabinet and chassis





A

B

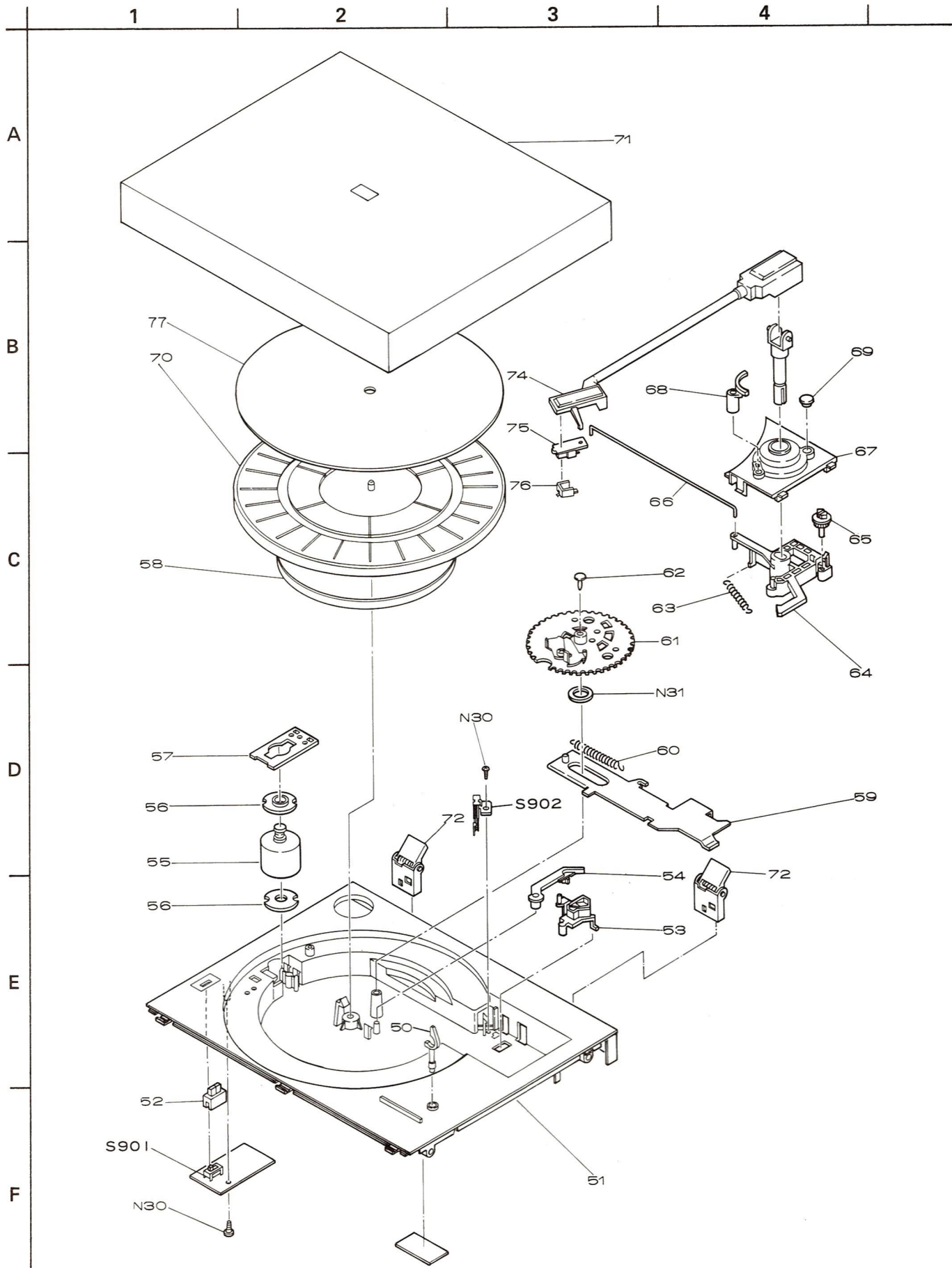
C

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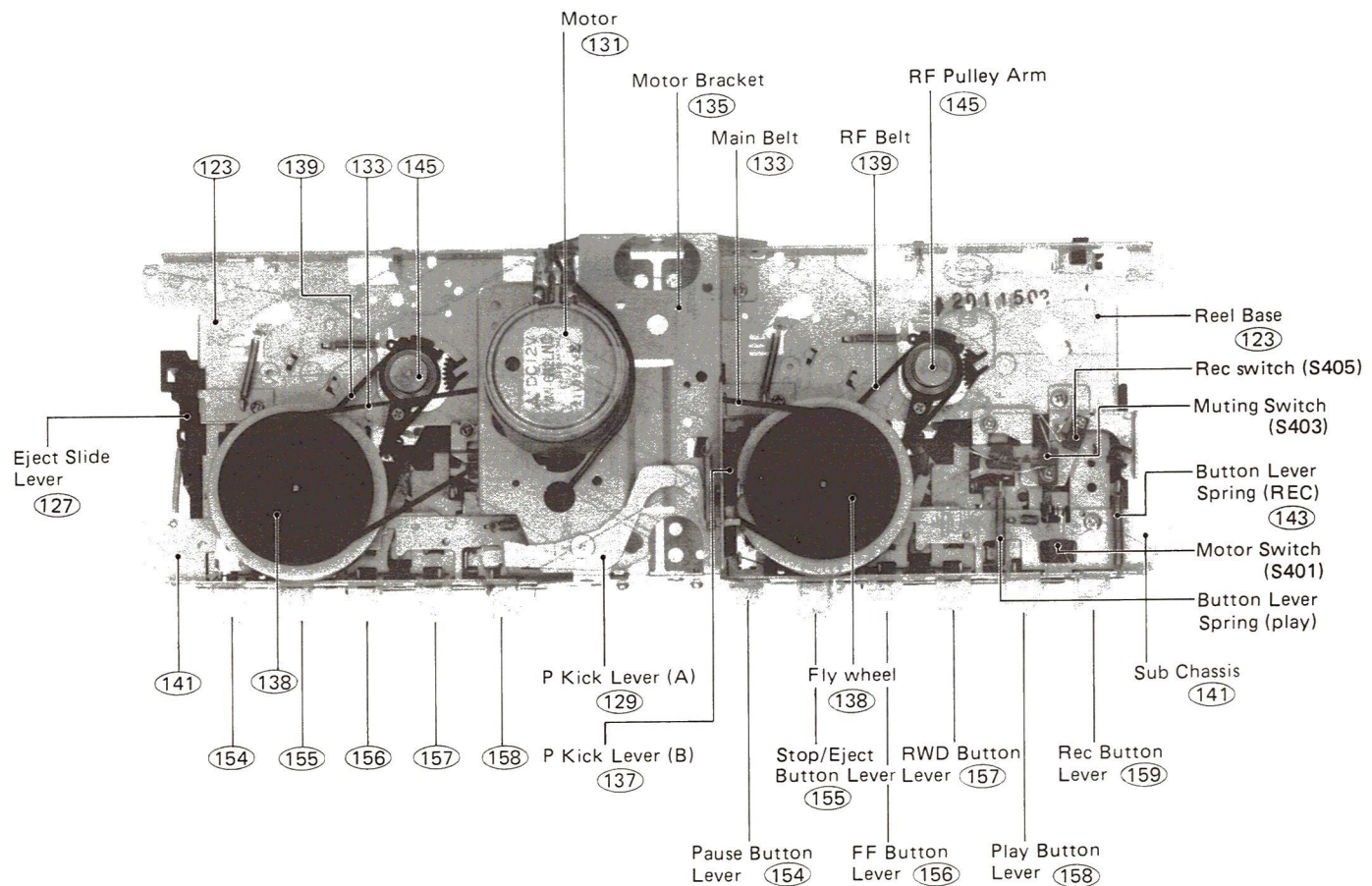
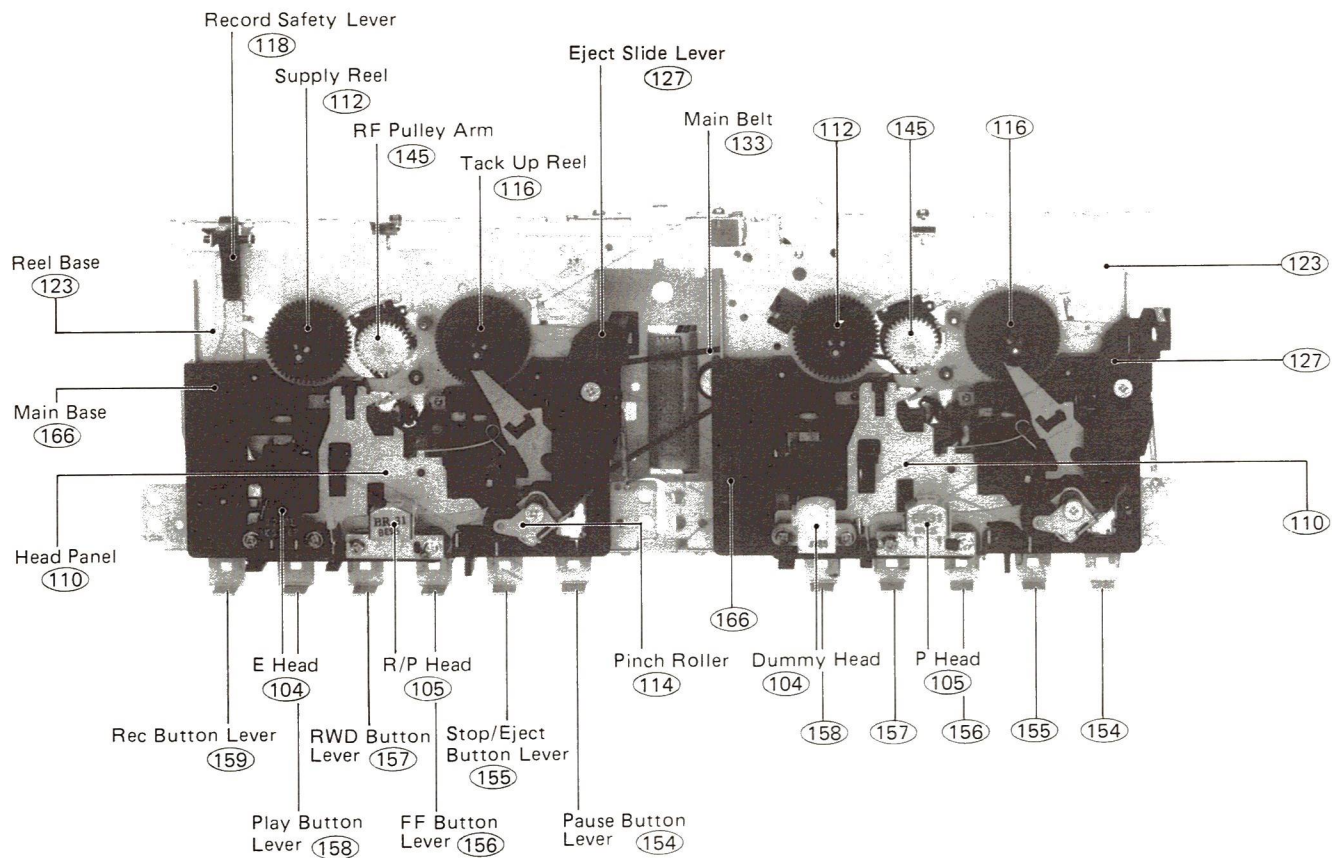
E

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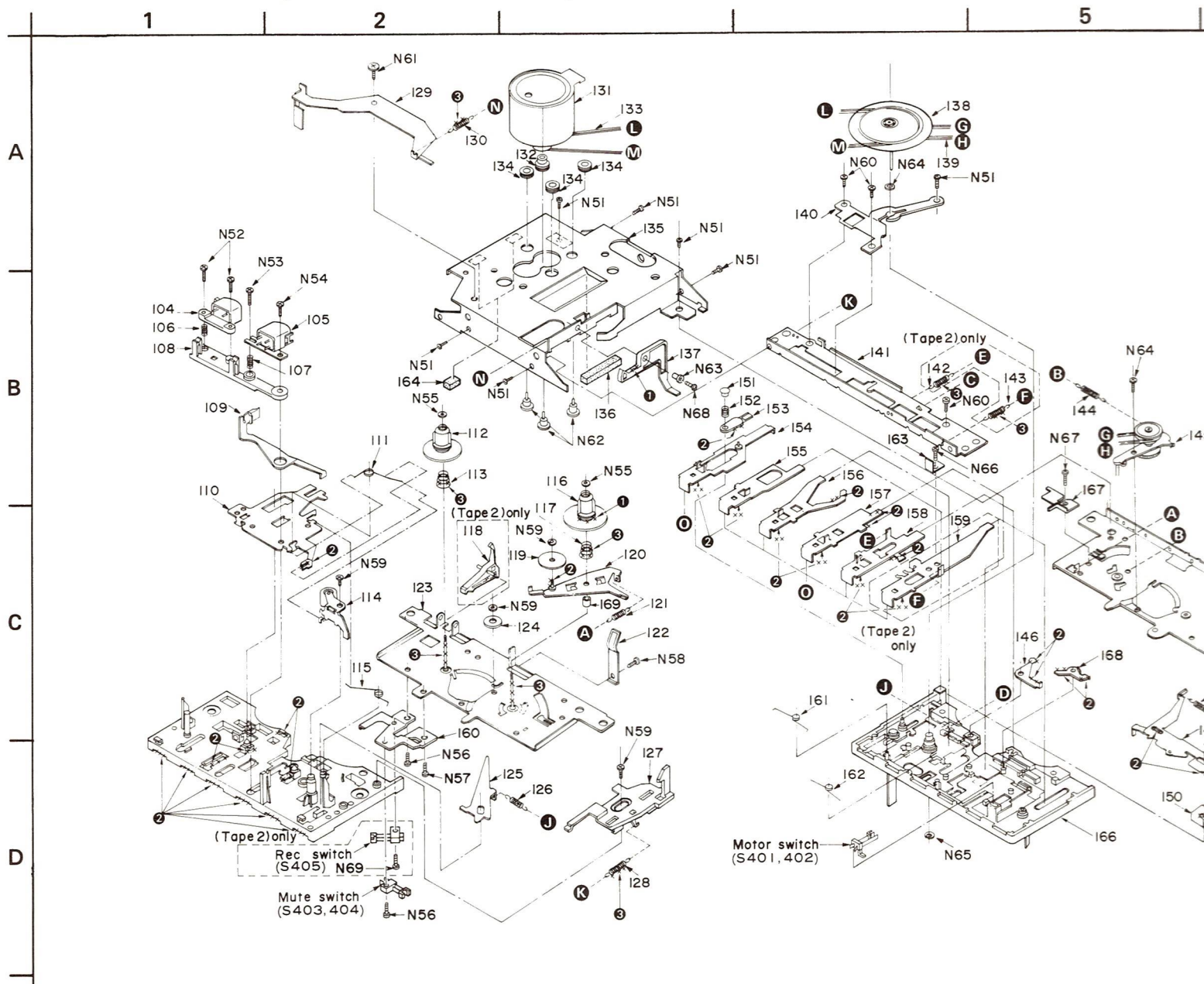
● Record palyer



■ PARTS LOCATION OF CASSETTE DECK MECHANISM



■ EXPLODED VIEW (Cassette mechanism)

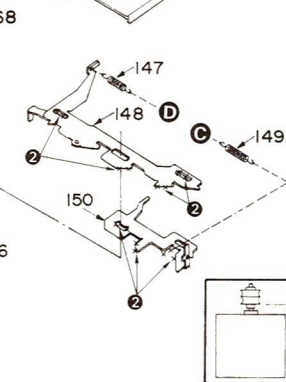
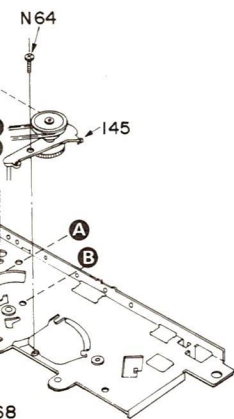


Ref. No.	Part No.	Description	
CASSETTE PART LIST			
104	SJHE700XE	Dummy E Head (Tape 1)	(1)
104	SJH94	E Head (Tape 2)	(1)
105	SJH92	R/P Head	(2)
106	SMQT1469	E.H Spring	(2)
107	RFS4472	Spring	(2)
108	SMQT1468	Head Base	(2)
109	RFY394Z	Sensing Plate Ass'y	(2)
110	SMQT1560	Head Panel	(2)
111	SMQT1622	Pinch Roller Spring	(2)
112	SMQT1603	Supply Reel Ass'y	(2)
113	SMQT1639	Back Tension Spring	(2)
114	RFR29ZA	Pinch Roller Ass'y	(2)
115	RF5531ZA	Head Panel Spring (S)	(2)
116	SMQT1637	Take Up Reel Ass'y	(2)
117	SMQT1638	Back Tension Spring	(2)
118	SMQT1605	Record Safety Lever (Tape 2 only)	(1)
119	RF661ZA	Take Up Roller Gear	(2)

Ref. No.	Part No.	Description	
CASSETTE PARTS LIST			
120	SMQT1640	Take Up Gear Plate	(2)
121	RFS450Z	Ass'y	(2)
122	RFS467Z	T.G. Plate Spring	(2)
123	SMQT1564	Pack Spring	(2)
124	SMQT1620	Reel Base Ass'y	(2)
125	SMQT1627	FF Gear	(2)
126	RFS453Z	Auto Lever	(2)
127	SMQT1569	Auto Lever Spring	(2)
128	RFS454Z	Eject Slide Lever	(2)
		Eject Slide Lever	(2)
		Spring	
129	SMQT1614	P Kick Lever (A)	(1)
130	RFY585ZA	P Kick Lever Spring	(1)
131	MM16N2LNC	Motor	(1)
132	SMQT1608	Motor Pulley	(1)
133	SMQT1609	Main Belt	(2)
134	RFI27Z	Motor Rubber	(3)
135	SMQT1607	Motor Bracket	(1)
136	SMQT1579	Mat	(2)
137	RFY582ZA	P Kick Lever (B)	(1)

Ref. No.	Part No.	Description	
CASSETTE PARTS LIST			
138	RFF39ZA	Flywheel Ass'y (Tape 1)	(1)
138	RFF40ZA	Flywheel Ass'y (Tape 2)	(1)
139	SMQT1563	RF Belt	(2)
140	SMQT1601	Metal Guide	(2)
141	SMQT1557	Sub Chassis	(2)
142	RFS530ZA	Play Button Lever Spring (S) (Tape 2 only)	(1)
143	SMQT1465	Button Lever Spring (A) (Tape 2 only)	(1)
144	RFS532ZA	RF Pulley Arm Spring	(2)
145	SMQT1623	RF Pulley Arm Ass'y	(2)
146	SMQT1555	RWD Lever	(2)
147	RFS466Z	Actuator Spring	(2)
148	SMQT1548	Push Button Actuator Ass'y	(2)

Ref.	CAS
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**NOTE**

- When changing mechanism parts apply the specified grease to the are marked "xx" shown in the drawing "Mechanical Parts Location".

Ref. No.	PART NAME	PARTS NO.
①	FLOIL G-311S	SZZOL26
②	FLOIL G-488M	SZZOL28
③	SILICONE OIL G-40M	SZZOL27

SPECIFICATIONS

NOTE: The value indicated by the torque tape may fluctuate during torque measurement.
In that case, obtain the middle of the values.

Pressure of pressure roller	350 ± 50 g	Wow and flutter; (JIS) * Use test tape QZZCWAT	Less than 0.2% (WRMS)
Takeup tension * Use cassette torque meter QZZSRKCT	35 ~ 60 g-cm		

Ref. No.	Part No.	Description
CASSETTE PARTS LIST		
149	RFS567Z	Switch Plate Spring (Tape 2 only) (2)
150	SMQT1599	Switch Plate (2)
151	SMQT1463	PAUSE Stopper (2)
152	RFS459Z	PAUSE Lever Spring (2)
153	SMQT1556	PAUSE Lever (2)
154	SMQT1554	PAUSE Button Lever Ass'y (2)
155	SMQT1553	STOP Button Lever (2)
156	SMQT1552	FF Button Lever (2)
157	SMQT1551	RWD Button Lever (2)
158	SMQT1600	PLAY Button Lever (2)
159	SMQT1580	REC Button Lever (Tape 2 only) (1)
160	SMQT1602	SW Bracket (Tape 1) (1)
160	SMQT1618	SW Bracket (Tape 2) (1)
161	RFS462Z	Button Lever Spring (C) (2)
162	SMQT1558	Button Lever Spring (E) (2)
163	SMQT1626	REC Spring Plate (MESA) (Tape 2 only) (1)

Ref. No.	Part No.	Description
CASSETTE PARTS LIST		
164	SMQT1616	Mat (2)
166	SMQT1547	Main Base Ass'y (2)
167	SMQT1568	Bracket (1)
168	SMQT1628	R/P stopper (2)
169	SMQT1641	Coller (2)
SCREWS		
N51	XSN2+4	⊕2×3 (8)
N52	SMQT1570	⊕ ⊖ Cap Screw (4)
N53	SMQT1534	Azimuth Screw (2)
N54	SMQT1571	⊕ ⊖ Cap Screw (2)
N55	RFN142Z	P Washer Cut (4)
N56	XYN2+C5	Tams Screw, ⊕2×5 (3)
N57	XSN2+5	Tapping Screw, ⊕2×5 (1)
N58	XSN2+3	⊕2×3 (2)

Ref. No.	Part No.	Description
SCREWS		
N59	SMQT1537	P.M. E Screw (4)
N59	RFN149ZA	P Washer Cut (4)
N60	XSB2+5	Screw, ⊕2×5 (8)
N61	RFE239ZA	P.K Coller Screw (A) (1)
N62	SMQ4918	Coller Screw (3)
N63	SMQT1617	Coller (B) (1)
N64	SMQT1611	P Washer Cut (2)
N64	SMQT1624	RF ARM Coller Screw (2)
N65	RFN123Z	P Washer Cut (2)
N66	XYN2+C3	Tams Screw, ⊕2×3 (1)
N67	XSB2+6	P Tapping Screw, ⊕2×6 (2)
N68	XSN2+6	C Tapping Screw, ⊕2×6 (1)
N69	XYN2+C5	Leaf switch, ⊕2×5(Tape 2) (1)