

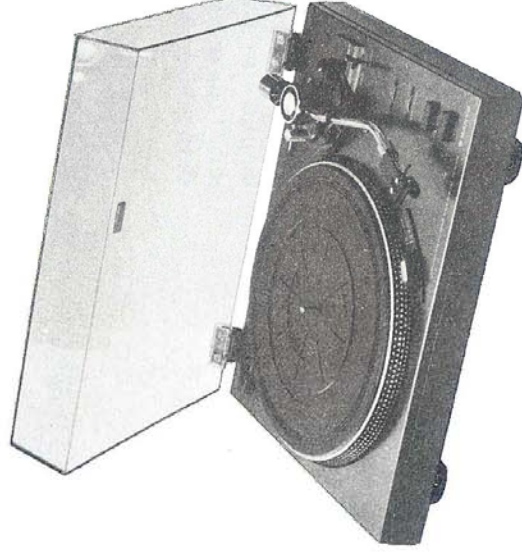
SERVICE MANUAL

STEREO TURNTABLE



TP1010

(U.S.A.)



SPECIFICATIONS

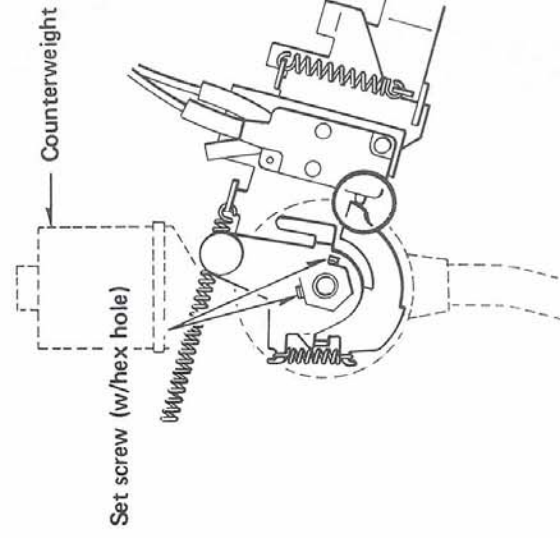
Motor	PLL servomotor	Stylus pressure	1.5 — 2.5 g.
Drive system	Belt drive	Frequency response	20 — 20,000 Hz
Speeds	33-1/3 and 45 rpm	Overhang	15 mm
Speed control range	Individual controls: $\pm 4\%$	Channel separation	Better than 25 dB
Speed change	Electronic type	Power source	AC: 120V 60Hz
Wow & flutter	0.05% WRMS	Power consumption	7 W
Signal to noise ratio	Better than 60dB	Dimensions	Approx: 17-1/2"(W) x 5-5/8"(H) x 14-1/4"(D)
Turntable platter	12" (30.5 cm)	Weight	Approx. 10 lbs. 2 ozs. (4.6 kg)
Tone arm	1 lbs. 5 ozs. (0.6kg)		
Tracking error	Static-balance type		
Tracking force range	$\pm 1.5^\circ$		
	0 — 4 g.		

* Specifications and design are subject to change without notice.

ADJUSTMENT

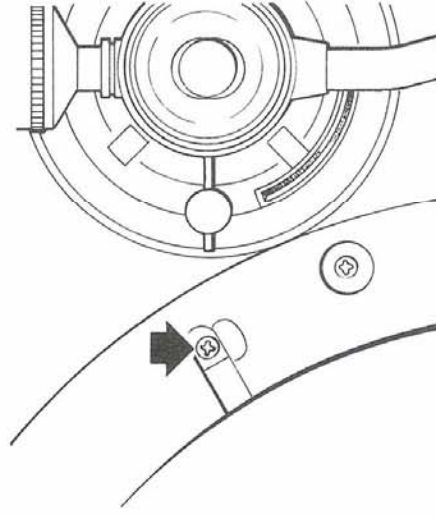
ADJUSTMENT OF TONEARM LEVER

Set the turntable unit upside down after putting the tonearm on the arm rest and securing it. Then, loosen the set screw (w/hex hole) and position the lever (M14) in such a way that the protrusion of the micro-switch contacts the foremost end of the lever.



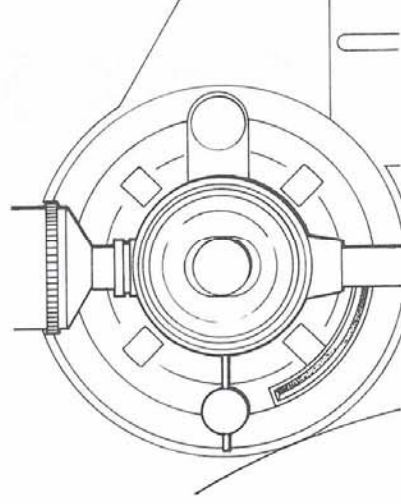
ADJUSTMENT OF MICRO-SWITCH

Set the turntable unit back in its normal position (the turntable platter at the top). Loosen the phillips screw (see illustration) with a screwdriver and adjust the micro-switch position so that the micro-switch will be turned on when the tonearm has moved a little toward the turntable center (namely, to the mirror of the deck panel).



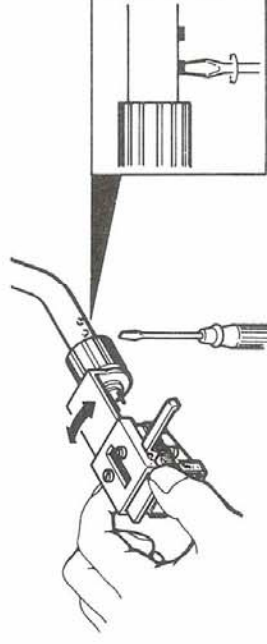
ADJUSTMENT OF AUTO-RETURN

There is a shaft which is accessible with an ordinary screwdriver through the hole below the tonearm. (See illustration at right.) When the stylus has reached a point approximately 55mm from the turntable center, turn the shaft clockwise or counterclockwise and select a position where it actuates the auto-return.



ADJUSTMENT OF HEADSHELL

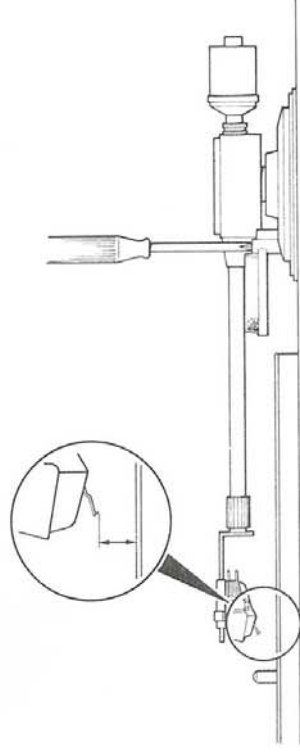
The headshell attached to the tonearm should not be inclined either to the right or to the left. If necessary, loosen the two screws on the bottom of the tubular arm and adjust the headshell. Be sure that the stylus is normal to the record surface.



ADJUSTMENT

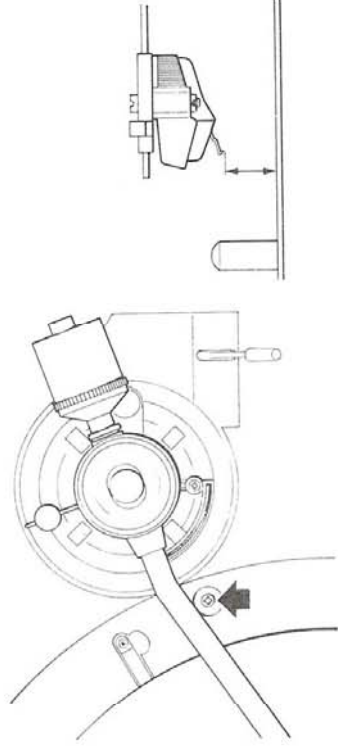
ADJUSTMENT OF TONEARM LIFTER

Set the cuing lever to UP and the distance between the stylus and the record to about 9mm by adjusting the arm lifter screw.



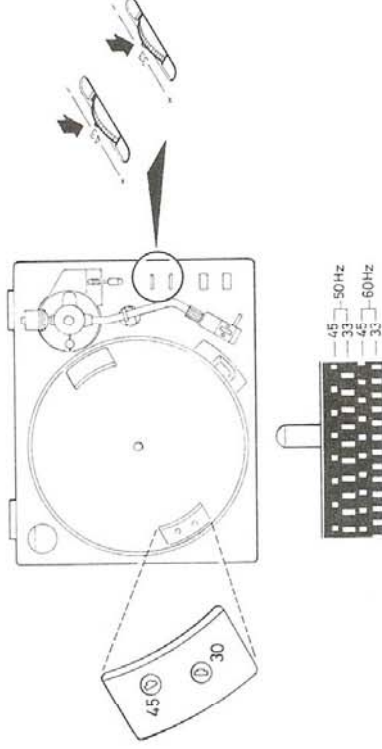
ADJUSTMENT OF LIFT-UP LEVER SPRING

Switch off power when the auto-return has worked and adjust spring tension to provide a clearance of 11mm between the stylus and the record.

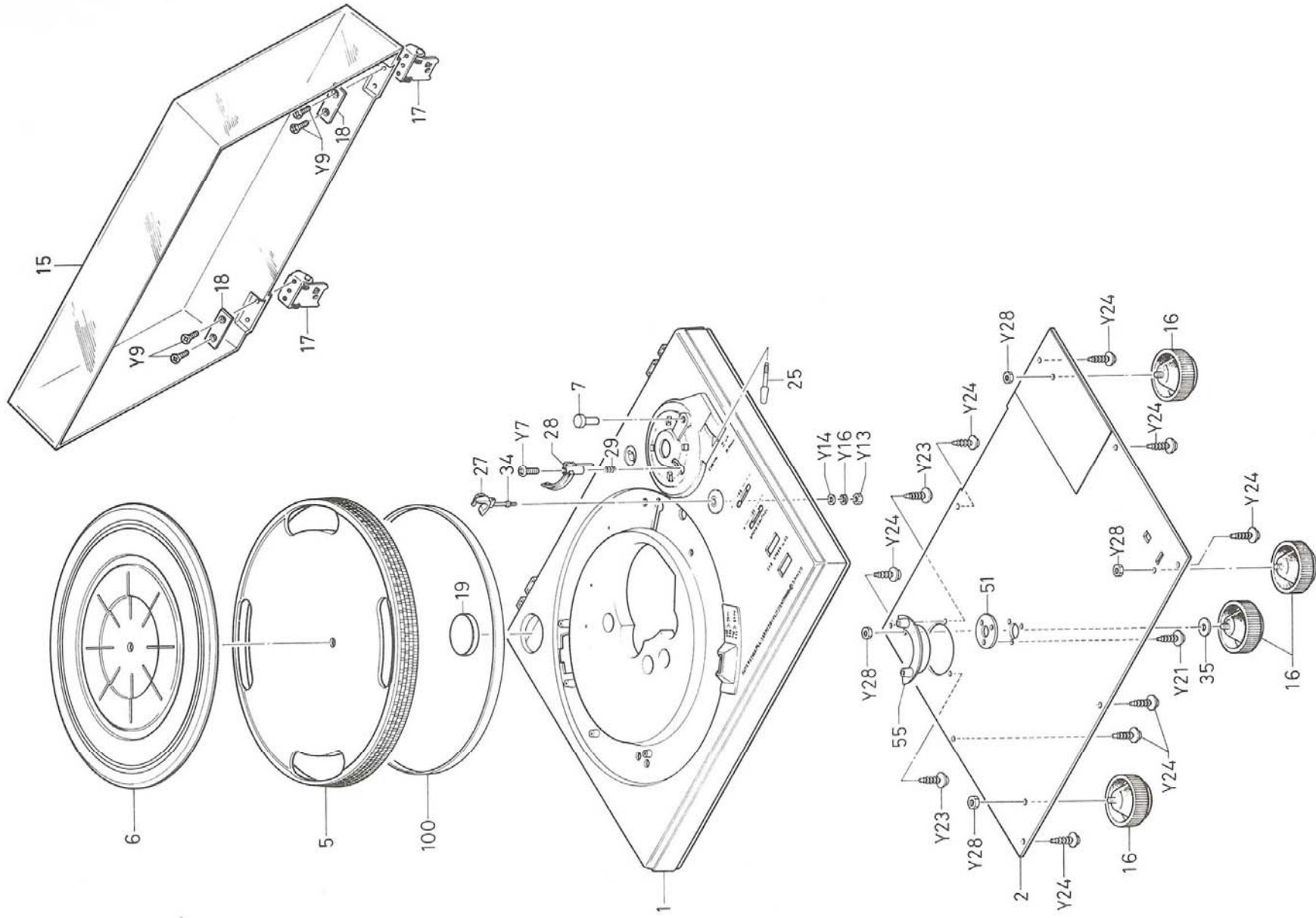


ADJUSTMENT OF TURNTABLE SPEED

Set the fine speed control dials to their center positions (each has three protrusions, of which only one can be set to the center). Make adjustment by inserting a screwdriver into the holes. When properly adjusted, the zebra strobo-scope marks on the turntable platter seem to be stationary at the selected speed.



CABINET EXPLODED VIEW

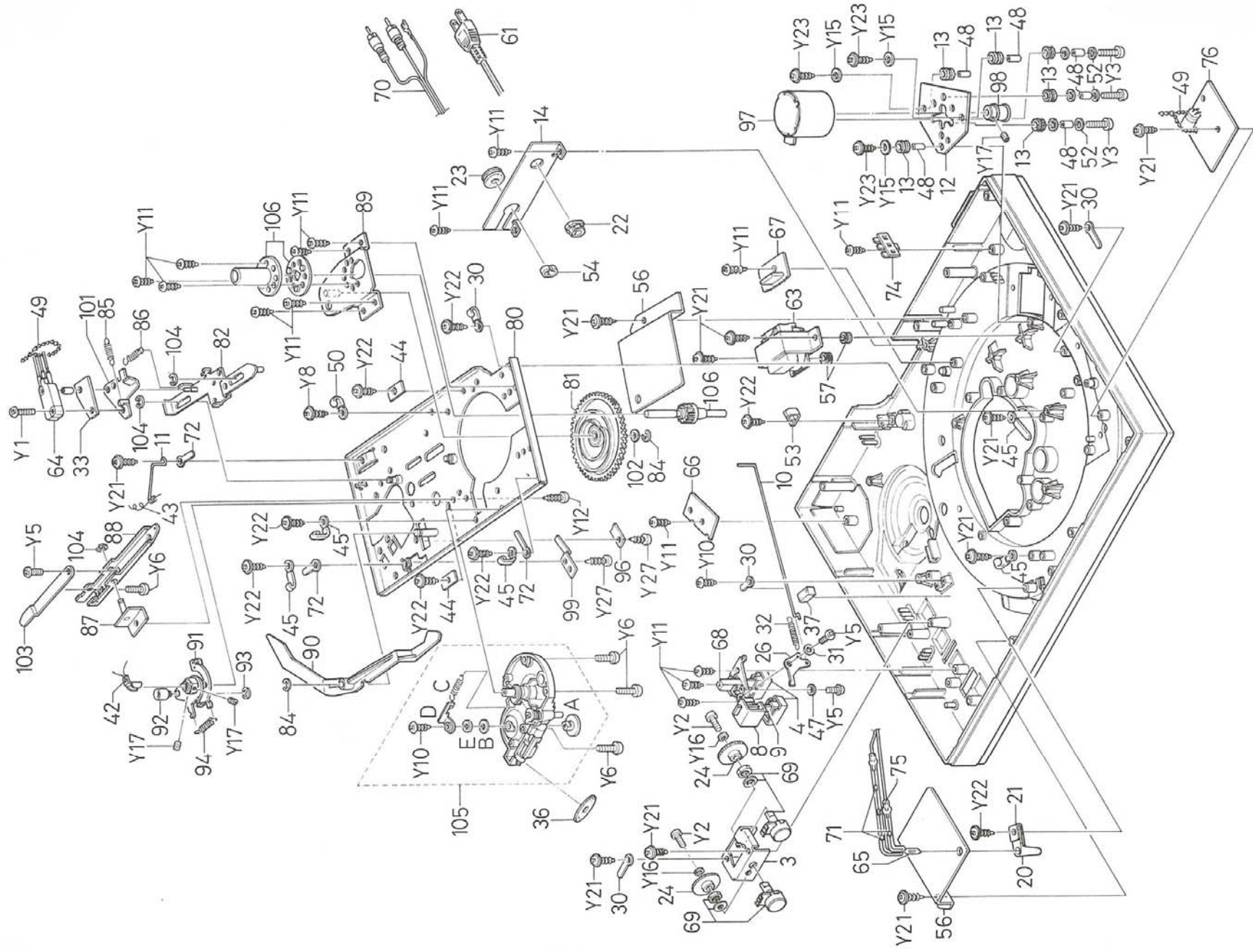


PARTS LIST

Ref. No.	Part No.	Description	Q'ty
PACKING			
1	141-6-144T-44300	Styrol Filler, Side Pad	2
2	141-6-316T-89300	Pad, Top Side	1
3	141-6-316T-88500	Pad, Dust Cover	1
4	141-6-113T-78702	Individual Carton	1
5	141-6-231T-10200	Inner Polyethylene Bag, Power & Output Cord	2
6	141-6-231T-10100	Inner Polyethylene Bag, & Main Weight & Lateral Balancer Pad, Turn Table Protect	4
7	141-6-316T-80000	Rating Plate	1
8	141-6-454T-15102	Caution Label, Voltage	1
9	141-6-472T-06200	Customer Card	1
10	141-6-493T-01100	Inner Polyethylene Bag, Set	1
11	141-6-231T-60702	Inner Polyethylene Bag, Rubber	1
12	141-6-231T-35402	Sheet & Turn Table	2
13	141-6-231T-25352	Inner Polyethylene Bag, Inst. Book	1
14	141-6-440T-02400	Hung Tag	1
15	141-6-231T-10100	Inner Polyethylene Bag	1
16	141-6-316T-95000	Pad, Mechanism Gear Fixer	1
ACCESSORIES			
17	161-6-410T-05100	Instruction Book	1
18	141-2-862T-00400	Screw Driver, Lateral Weight Fixed	1
19	141-2-687T-01600	Weight, Sub Weight Plate	1
20	141-2-421T-23700	Special Screw, Cartridge	2
CABINET			
1	141-9-121T-01600	Deck Panel Assembly	1
2	141-2-126T-22601	Back Lid	1
3	141-2-361T-14300	Bracket, VR Mtg.	1
4	141-2-161T-47900	Push Button	1
5	141-2-118T-00500	Turn Table	1
6	141-2-246T-23001	Sheet	1
7	141-2-163T-46500	Rotary Knob, IFC	1
8	141-2-365T-38400	Bracket, Speed Select Switch Mtg.	1
9	141-2-731T-57500	Slide, Reject	1
10	141-2-852T-45600	Wire Spring, Reject	1
11	141-2-882T-45700	Wire Spring, Earth	1
12	141-2-378T-09000	Bracket, Motor Mtg.	1
13	141-2-447T-38600	Cushion, Motor Bracket Mtg.	6
14	141-2-367T-30602	Bracket, Output Cord	1
15	141-9-194T-00301	Dust Cover Assembly	4
16	141-0-174T-00600	Stand Assembly	1
17	141-2-251T-06102	Hinge, Dust Cover Mtg.	2
18	141-2-351T-37300	Bracket Mounting, Dust Cover Mtg.	2
19	141-2-352T-19900	Spacer, 45 Adaptor	1
20	141-2-445T-19701	Rubber Cushion, Neon Lamp Mtg.	1
21	141-2-310T-06600	Bracket, Rubber Cushion (20) Mtg.	1
22	141-2-464T-11800	Fixer, Power Supply Cord Exit.	1
23	141-2-445T-16000	Rubber Cushion, Output Cord Exit.	1
24	141-2-163T-41100	Rotary Knob, Speed Adjust	2
25	141-0-741T-21000	Lever Assembly, Arm Lifter	1
26	141-2-742T-07300	Lever, Reject	1
27	141-0-873T-00200	Rest Assembly, Arm Rest	1
28	141-0-872T-00200	Lifter Assembly	1
29	141-2-855T-14200	Coil Spring, Lifter Mtg.	1
30	123-2-472R-00401	Lug, Wire Spring Fixer	1
31	141-2-683T-28900	Ring, Reject	1
32	141-2-851T-73300	Coil Spring, Reject	1
33	141-2-352T-24800	Spacer, Micro Switch (64) Mtg.	1
34	141-2-683T-32401	Ring, Arm Rest Stopper	1
35	141-2-352T-25300	Spacer, Adjust Leg Height	1
36	141-2-241T-20400	Veil, Arm Lifter Lever Cover	1
37	141-2-447T-45700	Cushion, Reject Wire	1
38	141-2-472T-06800	Lug, Arm Shaft	1
39	141-2-340T-00200	Rope 0.5px50mm	1
40	141-2-411T-03901	Plate Nut, Mechanism Chassis Mtg.	2
41	141-2-472T-01201	Lug, Lead Retainer	5
42	141-2-683T-33700	Ring, Speed Select Switch Mtg.	1
43	141-2-461T-30800	Pipe, Motor Mtg.	6
44	141-2-464T-08700	Fixer, Motor Mtg.	2
45	141-2-472T-01202	Lug, Micro Switch Lead Retainer	1
46	141-2-683T-33800	Ring, Turn Table Shaft Fixer	1
47	141-2-463T-01700	Washer, Motor Bracket Mtg.	3
48	141-2-464T-28500	Fixer, Output Lead Mtg.	1
49	141-2-464T-29400	or	1
50	141-2-352T-30800	or	1
51	141-2-352T-30900	Spacer, Output Cord Fixer	1
52	141-2-135T-53500	Cover, Motor	1
53	141-2-135T-50700	Cover, PT	1
54	141-2-445T-05000	Rubber Cushion, PT Mtg.	2

Ref. No.	Part No.	Description	Q'ty
ELECTRICAL PARTS			
61	4-243R-10192	Power Supply Cord	1
63	4-251T-77500	Power Transformer	1
64	4-231T-61971	Switch, Power Supply	1
65	4-612T-07000	Lamp, Strob	1
66	4-230T-19400	Printed Circuit Board	1
67	140-9-230T-57201	Printed Circuit Board Assembly, AC Relay	1
C2	4-223T-04900	-Capacitor 0.047μF	1
68	4-237T-00100	-Terminal	3
69	4-231T-70200	Push Switch, Speed Select	1
70	4-222T-51572	Variable Resistor 5k(B)	2
71	4-243T-15171	Lead Cord, Output Cord	1
72	141-2-382T-05300	Terminal, Neon Lamp Fixer	3
73	123-2-472R-00600	Lug, Earth	2
75(R1)	141-2-382T-07100	Terminal Clip	1
76	140-9-230T-66602	Carbon or Solid Resistor 12k ±10% 1/2W, Neon Lamp Mtg.	1
SVR2	4-222T-39476	Printed Circuit Board Assembly, Power	1
SVR1	4-222T-39477	-Semi Fixed Resistor 20k (B), 45 Speed Adj.	1
D1	4-237T-00100	-Semi Fixed Resistor 50k(B), 33 Speed Adj.	1
D2		-Terminal Board	9
C1		-IC NJM78L12A	1
C3		-Diode DS18	1
C4		-Diode DS17	1
R2		-Electrolytic 330μF 25WV	1
		-Electrolytic 100μF 16WV	1
		-Ceramic 0.01μF +80—20% 50WV	1
		-Carbon Resistor 680 ohm ±10% ½W	1
SCREW MOUNTING			
Y1	Pan Head Screw 3x14mm		1
Y2	Pan Head Screw 2.6x6mm		2
Y3	Pan Head Screw 2.6x8mm		3
Y4	Pan Head Screw 3x4mm		1
Y5	Pan Head Screw 3x6mm		4
Y6	Pan Head Screw 3x8mm		5
Y7	Pan Head Screw 3x10mm		1
Y8	Pan Head Screw 4x10mm		1
Y9	Flat Head Screw 4x14mm		4
Y10	Tapping Screw 2.6x6mm		1
Y11	Tapping Screw 3x8mm		17
Y12	Tapping Screw 3x12mm		3
Y13	Nut 2.6mm		1
Y14	Washer 2.6mm		1
Y15	Washer 3x10x0.5mm		1
Y16	Spring Washer 2.6mm		3
Y17	Hexagon Socket Head Bolt 3x4mm		3
Y18	Headless Screw 4x4mm		2
Y19	Spring Washer 3mm		2
Y20	Washer 3x8x0.5mm		2
Y21	Tapping Screw with Washer 3x8mm		16
Y22	Tapping Screw with Washer 3x10mm		11
Y23	Tapping Screw with Washer 3x12mm		5
Y24	Tapping Screw with Washer 3x14mm		8
Y25	Flat Head Screw 2x10mm		1
Y27	Tapping Screw with Washer 3x6mm		2
Y28	Nut 3mm		6

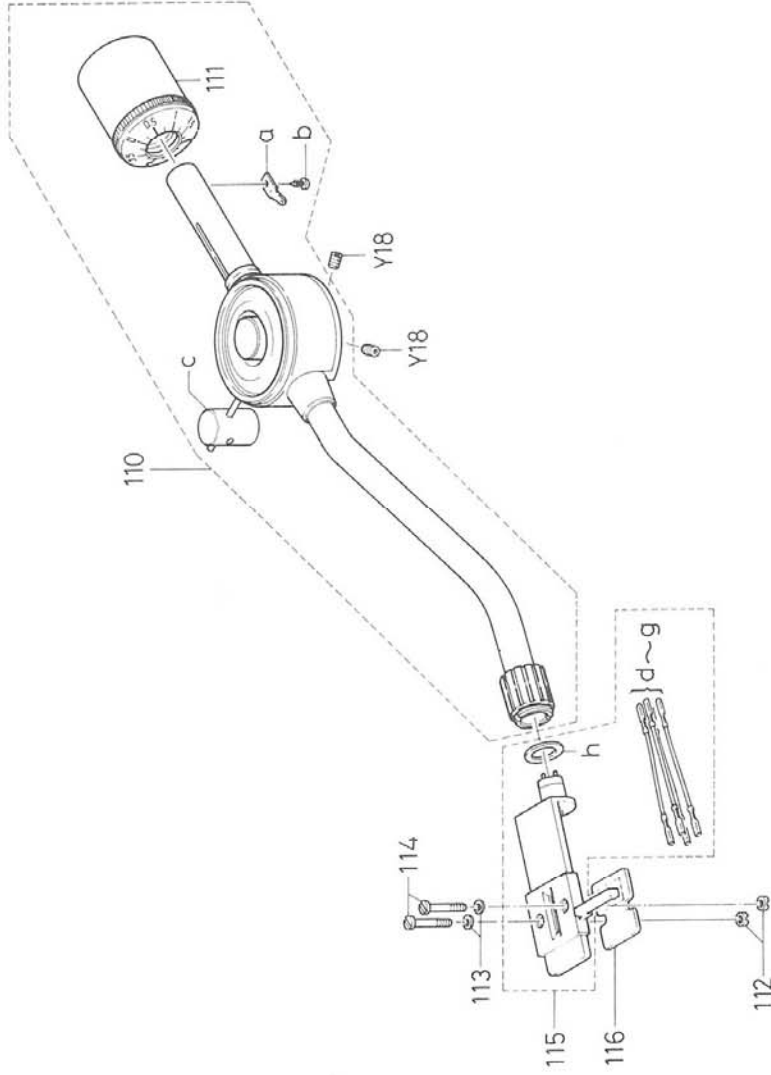
MECHANISM EXPLODED VIEW



PARTS LIST

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
TURNTABLE MECHANISM				TURNTABLE MECHANISM			
80	141-0-311T-06700	Chassis Assembly	1	110	141-9-743T-00300	Arm Assembly	1
81	141-0-581T-00800	Gear Assembly	1	a	141-2-853T-53900	Spring Plate	1
82	141-0-731T-15800	Slide Assembly	1	b		Pan Head Tapping Screw 2x4mm	1
83	141-2-246T-26501	Sheet	1	c		Weight	1
84	141-2-457T-23200	Special Washer	2	111	141-2-687T-01500	Weight Assembly	1
85	141-2-851T-99500	Spring Coil	1	112	141-9-687T-00100	Stud Nut	2
86	141-2-855T-14700	Spring Coil	1	113	141-2-417T-18100	Washer	2
87	141-0-747T-02400	Bracket Lever Assembly	1	114	141-2-453T-32200	Special Screw	2
88	141-0-741T-20700	Lever Assembly	1	115	141-2-421T-23701	Head Shell Assembly	1
89	141-0-351T-01300	Bracket Mounting Assembly	1	d	141-9-286T-00100	Lead Cord, LH	1
90	141-2-742T-06700	Lever	1	e	4-243T-15800	Lead Cord, LE	1
91	141-0-741T-20901	Lever Assembly	1	f	4-243T-15871	Lead Cord, RH	1
92	141-2-753T-19700	Shaft	1	g	4-243T-15872	Lead Cord, RE	1
93	141-2-457T-23101	Special Washer	3	h	4-243T-15873	Rubber Cushion	1
94	141-2-851T-73500	Spring Coil	1	116	141-2-445T-20300	Weight, Sub	1
96	141-2-464T-25800	Fixer	1		141-2-687T-01600		
97	4-527T-10800	Motor	1				
98	141-2-661T-71800	Pulley, Motor	1				
99	141-2-853T-53400	Spring Plate	1				
100	141-2-561T-04200	Flat Belt	1				
101	141-2-365T-36700	Bracket Switch	1				
102	141-2-453T-30701	Washer	1				
103	141-2-853T-51100	Spring Plate	1				
104	141-2-457T-23100	Special Washer	1				
105	141-0-174T-00401	Stand Assembly	1				
A	141-2-753T-23402	Shaft	1				
B	141-2-457T-12201	Special Washer	1				
C	141-2-855T-17001	Spring Coil	1				
D	141-2-742T-08901	Lever	1				
E	141-2-453T-21500	Washer, or	1				
	141-2-453T-30800	Washer	2				
106	141-0-751T-02800	Shaft Assembly	1				

ARM EXPLODED VIEW





Printed in Japan