

SERVICE MANUAL

STEREO TURNTABLE


SANYO

TP1012UM

(EUROPE)

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SPECIFICATIONS

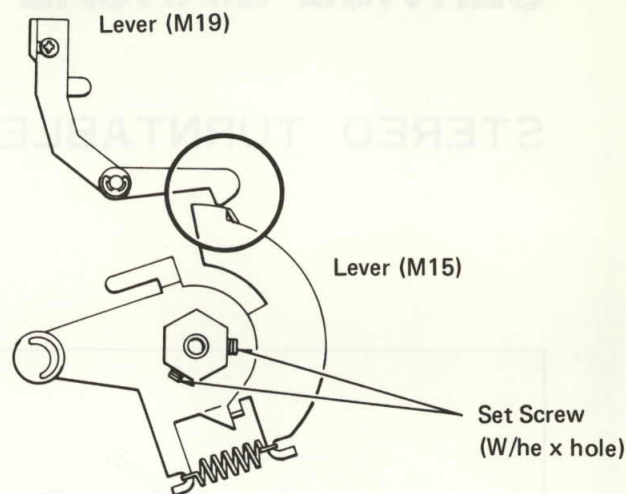
Motor	DC brushless motor	Cartridge	Magnetic stereo cartridge (MG-10J)
Drive system	Direct drive	Stylus	0.5 mil diamond stylus (ST-10J)
Speeds	33-1/3 and 45 rpm	Stylus pressure	1.5 – 2.5 g.
Speed control range	Individual controls: $\pm 4\%$	Frequency response	20 – 20,000Hz
Speed change	Electronic type	Overhang	15 mm
Wow & flutter	0.04% WRMS	Channel-separation	Better than 25 dB
Signal to noise ratio	Better than 60 dB	Power source	AC: 110/125/220V, 50Hz
Turntable platter	12" (30.5 cm) 2 lbs. 4 ozs. (1 kg)	Power consumption	12W
Tone arm	Static-balance type	Dimensions	Approx. 17-3/16"(W) x 5-3/4"(H) x 14-1/4"(D) (441 x 145 x 357 mm)
Tracking error	$\pm 1.5^\circ$	Weight	Approx. 13 lbs. 4 oz. (6 kg)
Tracking force range	0 – 3g.	* Specifications and design are subject to change without notice.	

ADJUSTMENT

ADJUSTMENT OF TONEARM LEVER

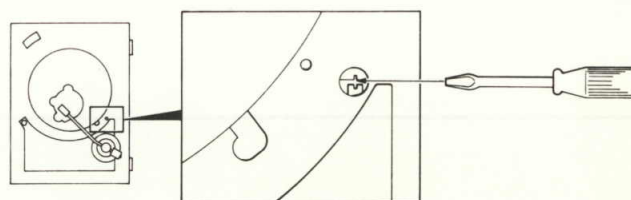
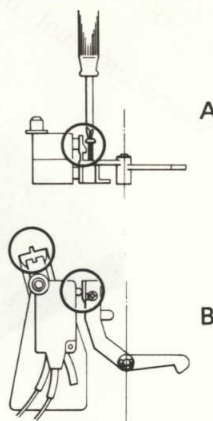
Set the turntable unit upside down after putting the tonearm on the arm rest and securing it.

Then, loosen the set screw (w/hex hole) and position the lever (M15) in such a way that the protrusion of the micro-switch contacts the foremost end of the lever.



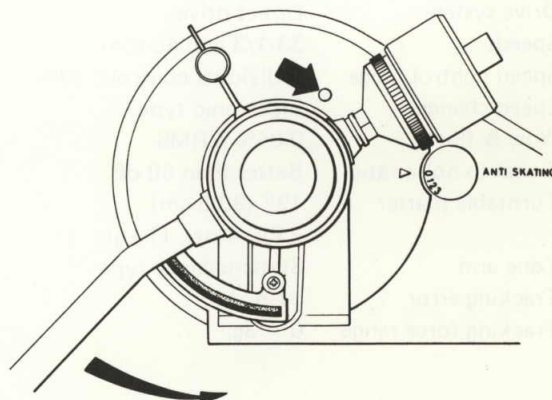
ADJUSTMENT OF MICRO-SWITCH

- When the needle in the arm has reached a point between 35 to 38 mm of the outer edge of the record, insert the screwdriver in the hole shown in the figure and adjust the micro-switch so that the turntable begins to revolve or the neon lamp lights up.
- As you move the arm toward the turntable, the lever (M19) pressing down on the micro-switch will become disengaged and the turntable will begin to revolve or the neon lamp will light up. In order to make certain that, whichever of these two actions takes place, the other will be activated by the arm within a distance of 5 mm, use the nut 2.6 x 10 mm (Y 9) to adjust the timing.



ADJUSTMENT OF AUTO-RETURN

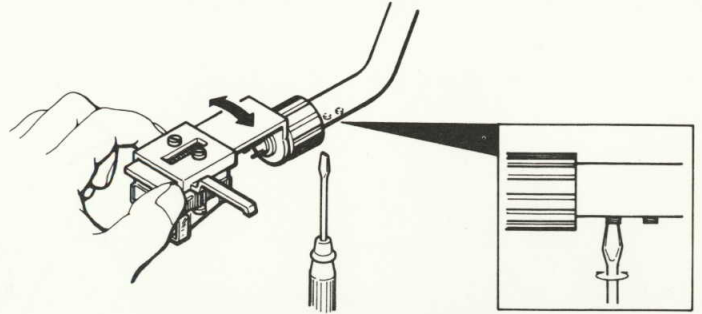
There is a shaft which is accessible with an ordinary screwdriver through the hole below the tonearm. (See illustration at right.) When the stylus has reached a point approximately 55mm from the turntable center, turn the shaft clockwise or counterlockwise and select a position where it actuates the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



ADJUSTMENT

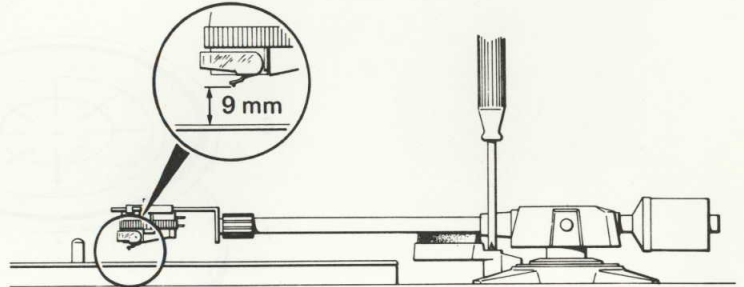
ADJUSTMENT OF HEADSHELL

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.



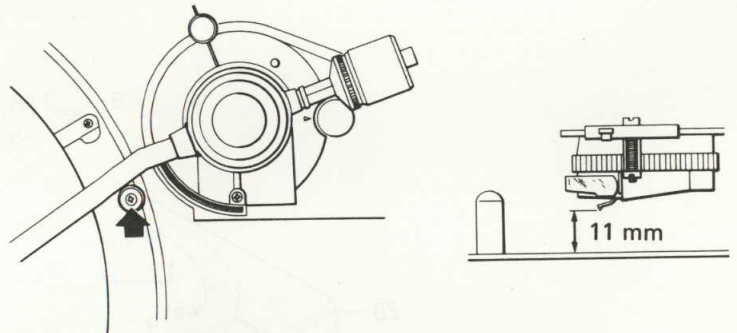
ADJUSTMENT OF TONEARM LIFTER

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



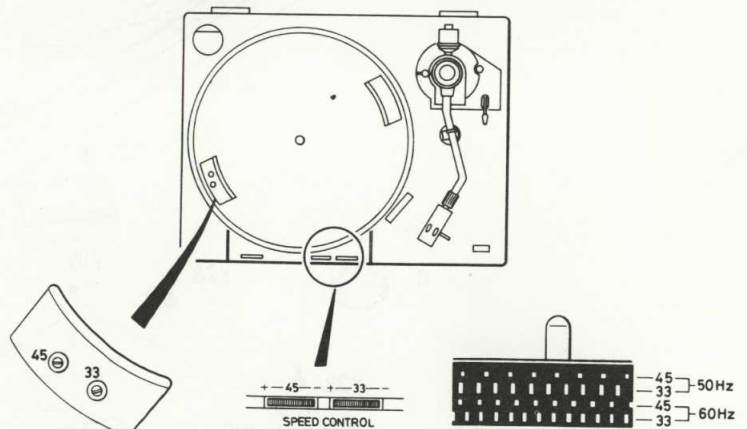
ADJUSTMENT OF LIFT-UP LEVER SPRING

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.



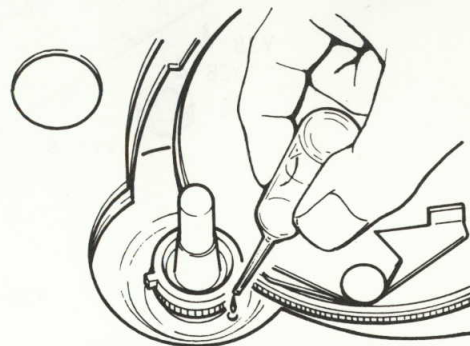
ADJUSTMENT OF TURNTABLE SPEED

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 stroboscope marks on the turntable platter seem to be stationary at the selected speed.

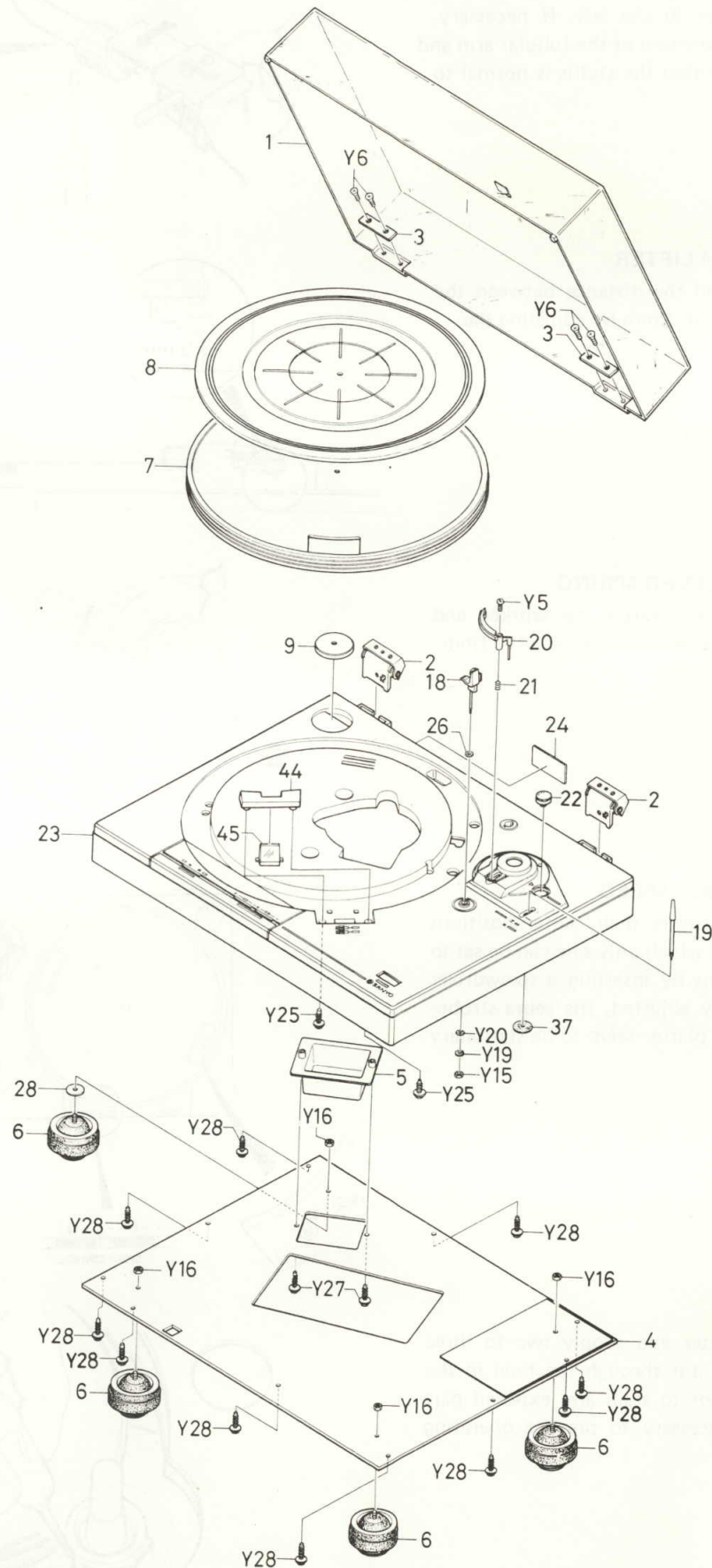


REPAIR

Dismount the turntable platter and supply two to three drops of oil into the DC motor through the hole in the motor housing. Be careful not to stain any exposed part with oil. This caution is necessary to prevent operating trouble.



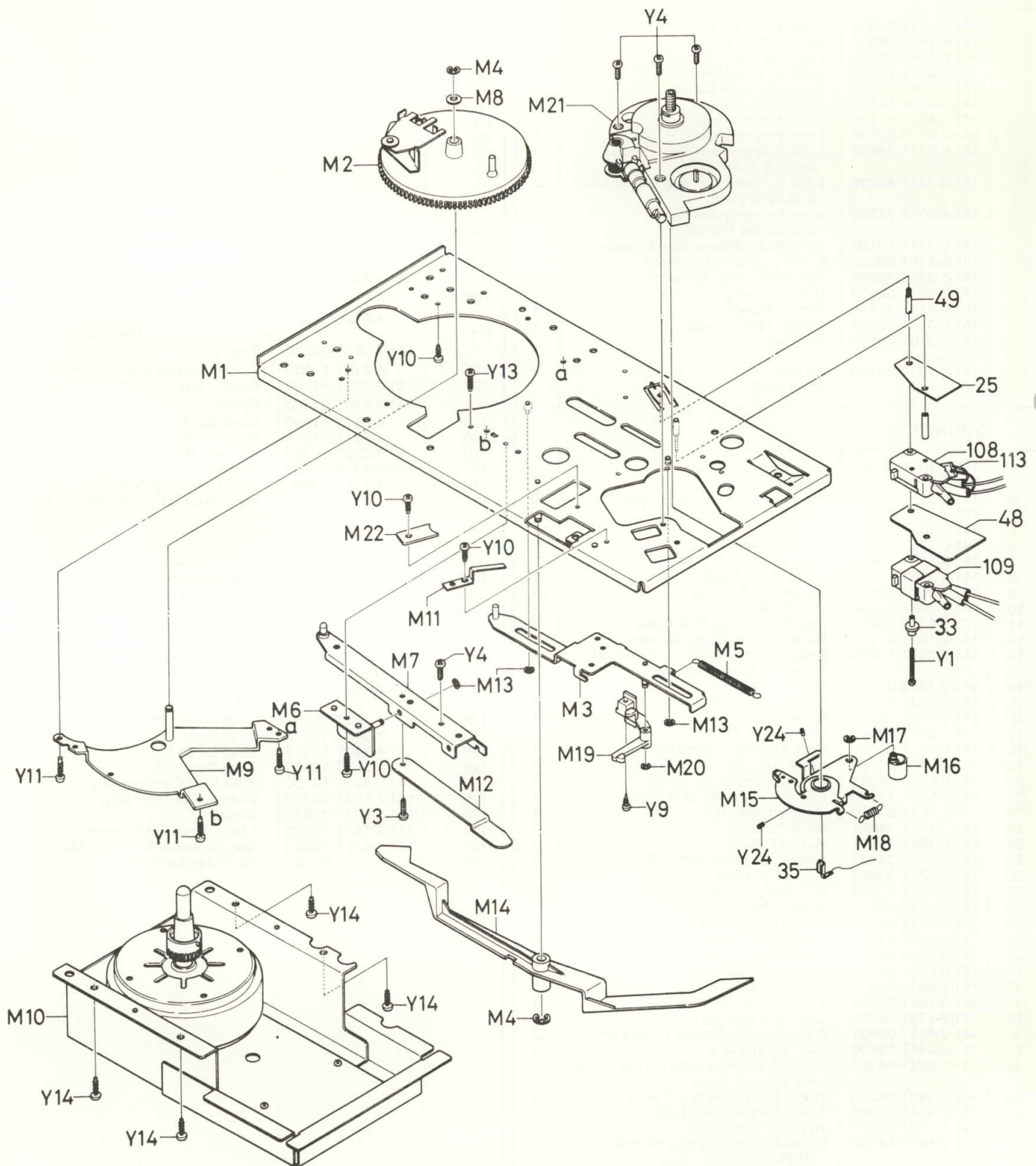
CABINET EXPLODED VIEW



PARTS LIST

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
PACKING				ELECTRICAL PARTS			
	141-6-113T-85501	Individual Carton	1	101	4-251T-89100	Power Transformer 110/125/220V	1
	141-6-144T-49600	Styrol Filler, Set	2	102	4-243T-77172	Power Supply Cord	1
	141-6-316T-79800	Pad, Top Side	1	103	4-243T-15100	Lead Cord, Output Lead	1
	141-2-337T-10000	Ribbon, Arm Fixed	1	104	141-4-230T-66700	Printed Circuit Board, Power	1
	141-2-184T-07000	Tape, Cartridge Cover	1		4-222T-39574	Semi Fixed Resistor 5k Ω (B)	2
	141-6-410T-16301	Instruction Manual	1	SVR1,2		Transistor 2SD612E	1
	141-6-455T-01101	Serial Number Plate	2	Q1		Diode DS18	1
	141-6-231T-60700	Inner Polyethylene Bag, Set	1	D1		Diode DS17	1
	141-6-231T-35400	Inner Polyethylene Bag, Rubber Sheet & Turn Table	2	D2		Diode WZ192	1
	141-6-231T-10200	Inner Polyethylene Bag, Power Cord & Output Cord	2	D3		Electrolytic 330 μ F +100-10% 35WV	1
	141-6-231T-25300	Inner Polyethylene Bag, Instruction Manual	1	C3		Electrolytic 100 μ F +100-10% 25WV	1
	141-6-231T-10100	Inner Polyethylene Bag, Belonging	4	C4		Ceramic 0.01 μ F +80-20% 50WV	1
	141-6-316T-80000	Pad, Turn Table Protector	1	R2		Solid or Carbon 1.2K Ω $\pm$ 10% 1/2W	1
	141-6-316T-88500	Pad, Dust Cover Protector	1	R3		Metal Oxide Film 5.6 Ω $\pm$ 10% 2W	1
	141-2-862T-00400	Driver, Tuning	1		141-2-464T-08700	Fixer	1
	141-6-415T-23800	Notice, Sweden	1	105	4-612T-07002	Lamp Assembly, Strobo	1
	141-6-415T-23900	Notice, Netherlands	1		4-612T-07071	Neon Lamp	1
	141-6-316T-80100	Pad, Side	2	R1		Carbon 6.8K Ω $\pm$ 10% 1/2W	1
	For service				141-2-382T-05300	Terminal	3
	141-2-197T-00100	Oil Case		106	4-230T-19400	Printed Circuit Board, Output Relay	1
		Oil No.465		107	141-4-230T-44200	Printed Circuit Board, AC Relay	2
CABINET					141-2-430T-01500	Eyelet	2
1	141-0-194T-00700	Dust Cover Assembly	1	108	4-231T-61900	Micro Switch	1
2	141-2-251T-06102	Hinge	2	109	4-231T-61972	Micro Switch	1
3	141-2-351T-37300	Bracket Mounting, Dust Cover Mtg.	2	110	4-222T-66700	Variable Resistor, Speed Adjust 2k(B)	2
4	141-2-126T-25400	Back Lid	1	111	123-2-472R-00600	Lug, Earth	2
5	141-2-135T-48500	Cover, PT	1	112	4-231T-53600	Switch, Voltage Select	1
6	141-0-174T-05701	Stand Assembly	4	113		Myler 0.047 μ F $\pm$ 20% 50WV (C5)	1
7	141-2-118T-00400	Turn Table	1	ARM			
8	141-2-246T-11500	Sheet, Turn Table	1	120	141-0-743T-05903	Arm Assembly	1
9	141-2-352T-19900	Spacer, 45 Adaptor	1	a	141-2-853T-53900	Plate Spring, Weight Clicker	1
10	141-2-368T-07801	Heat Sink	1	b		Tapping Screw 2x4mm, Plate Spring Mtg.	1
11	123-2-472R-00401	Lug, Wire Spring (15) Fixer	1	c	141-2-687T-01500	Weight	1
12	141-2-163T-41100	Rotary Knob, Speed Selector	2	121	141-0-687T-01700	Weight Assembly	1
13	141-0-361T-14800	Bracket Resistor Assembly, Speed Select & Speed Control	1	122	141-0-286T-01020	Head Shell Assembly	1
14	141-2-742T-07300	Lever, Reject	1	123	141-2-445T-20300	Rubber Cushion, Head Connector Mtg.	1
15	141-2-852T-50600	Wire Spring, Reject	1	124	4-243T-15800	Lead Cord, LH	1
16	141-2-683T-28900	Ring, Reject	1	125	4-243T-15871	Lead Cord, LE	1
17	141-2-851T-73300	Coil Spring, Reject	1	126	4-243T-15872	Lead Cord, RH	1
18	141-0-873T-00202	Rest Assembly, Arm Rest	1	127	4-243T-15873	Lead Cord, RE	1
19	141-0-742T-07200	Lever Assembly, Arm Lifter	1	128	141-2-417T-18100	Stud Nut, Cartridge Mtg.	2
20	141-0-872T-00201	Lifter Assembly	1	129	141-2-453T-32200	Washer, Cartridge Mtg.	2
21	141-2-855T-14200	Coil Spring, Lifter Mtg.	1	130	141-2-687T-01600	Weight	1
22	141-2-163T-53800	Rotary Knob, IFC	1	131	141-2-742T-13100	Lever, Head Shell Finger	1
23	141-2-121T-14401	Deck Panel	1	132	141-2-421T-23700	Special Screw, Cartridge Mtg.	2
24	141-6-454T-18301	Rating Plate	1	133	4-157T-00801	Cartridge Assembly	1
25	141-2-352T-24800	Spacer, Micro Switch (108) Mtg.	1				
26	141-2-683T-32401	Ring, Arm Rest	1				
27	141-2-852T-45700	Wire Spring, Lead Retainer	1				
28	141-2-352T-25300	Spacer, Adjust Height of Leg	1				
29	141-2-447T-45700	Cushion, Reject Wire (15)	1				
30	141-2-472T-01201	Lug, Lead Retainer	8				
31	141-2-464T-08700	Fixer, Motor Lead Retainer	1				
32	141-0-365T-38401	Bracket Switch Assembly, Reject	1				
33	141-2-461T-28900	Pipe, Micro Switch	1				
34	141-2-184T-07201	Tape 18 x 24 mm, Strobo	1				
35	141-2-472T-06800	Lug, Arm Bearing Flange Mtg.	1				
36	141-2-411T-03901	Plate Nut, Mechanism Chassis Mtg.	2				
37	141-2-241T-19400	Veil, Lever Cover	1				
38	141-2-322T-44700	Shield Plate, under the Output Cord P.C.B.	1				
39	141-2-340T-00200	Rope, Lead Retainer of Arm	1				
40	141-2-464T-30000	Fixer, Output Cord (103)	2				
41	141-2-329T-05700	Reflector, Strobo	1				
42	141-2-445T-16200	Rubber Cushion, Power Supply Cord (102)	1				
43	141-2-445T-16000	Rubber Cushion, Output Cord (103)	1				
44	141-2-151T-15300	Decorative Panel, Strobo Base	1				
45	141-2-131T-17300	Clear Window, Strobo	1				
46	123-2-453R-10500	Plastic Washer, Power Cord Fixed	1				
47	141-2-445T-13302	Rubber Cushion, Neon Lamp Mtg.	1				
48	141-2-352T-24701	Spacer, Micro Switch	1				
49	141-2-421T-12400	Special Screw, Micro Switch	1				

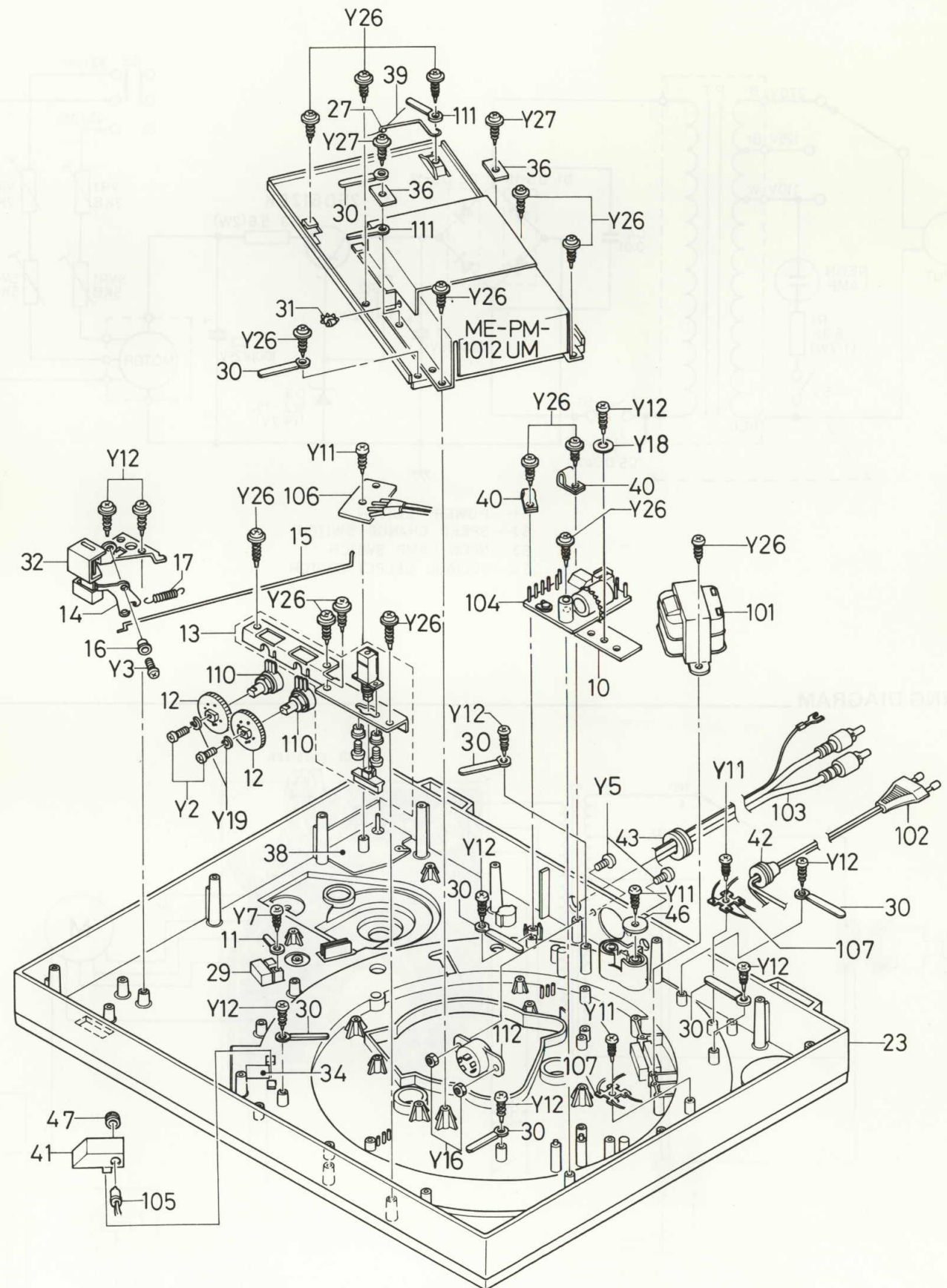
MECHANISM EXPLODED VIEW



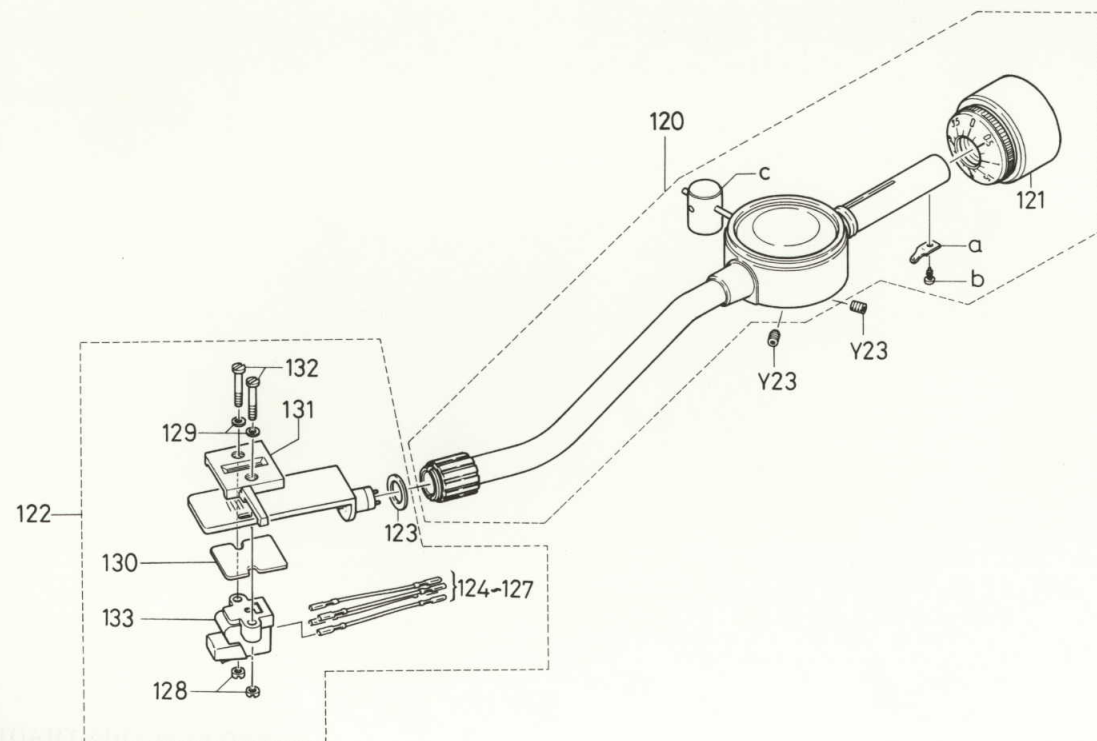
PARTS LIST

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
MECHANISM				SCREW MOUNTING			
M1	141-0-311T-28600	Chassis Assembly	1	Y1		Pan Head Screw 2x20mm	1
M2	141-0-581T-08900	Gear Assembly	1	Y2		Pan Head Screw 2.6x6mm	2
M3	141-0-731T-53200	Slide Assembly	1	Y3		Pan Head Screw 3x6mm	1
M4	141-2-457T-23200	Special Washer, Main Gear (M2) & Lever (M14) Mtg.	2	Y4		Pan Head Screw 3x8mm	4
M5	141-2-855T-30000	Coil Spring, Main Slide (M3) restore	1	Y5		Pan Head Screw 3x10mm	3
M6	141-0-747T-04900	Bracket Lever Assembly	1	Y6		Flat Head Screw 4x12mm	4
M7	141-0-742T-06500	Lever Assembly	1	Y7		Tapping Screw 2.6x6mm	1
M8	141-2-453T-30701	Washer, GNW 5.2x8x0.25mm	1	Y8		Tapping Screw 2.6x8mm Rest Assy (18) Mtg.	1
M9	141-0-310T-19500	Bracket Assembly Gear (M2) Mtg.	1	Y9		Self Tapping Screw 2.6x10mm	1
M10	4-527T-11501	Brushless Motor Assembly	1	Y10		Tapping Screw 3x6mm	4
M11	141-2-853T-53400	Plate Spring, Stand (M21) Fixer	1	Y11		Tapping Screw 3x8mm	7
M12	141-2-853T-51100	Plate Spring, Lift Up	1	Y12		Tapping Screw 3x10mm	9
M13	141-2-457T-23100	Special Washer, E3	3	Y13		Tapping Screw 3x14mm	1
M14	141-2-742T-06700	Lever, Trip Lever	1	Y14		Tapping Screw 3.5x8mm	4
M15	141-0-742T-06101	Lever Assembly, Arm Lever	1	Y15		Nut 2.6mm	1
M16	141-2-753T-19700	Shaft, Auto Return Adjust	1	Y16		Nut 3mm	5
M17	141-2-457T-23101	Special Washer, Shaft (M16) Mtg.	1	Y17		Nut 4mm	1
M18	141-2-851T-73500	Coil Spring, Arm Lever (M15) Restore	1	Y18		Washer 3x10x0.5mm	1
M19	141-2-742T-22300	Lever, Switch Operator	1	Y19		Spring Washer 2.6mm	3
M20	141-2-457T-23000	Special Washer, E2	1	Y20		Washer 2.6mm	1
M21	141-0-174T-06120	Stand Assembly, Arm Stand	1	Y21		Spring Washer 4mm	1
M22	141-2-464T-25800	Fixer, Mechanism Chassis (M1) Mtg.	1	Y22		Headless Screw 3x6mm Rest Assy (18) Mtg.	1
				Y23		Headless Screw 4x6mm	2
				Y24		Headless Screw with Hexagon Hole 3x4mm	2
				Y25		Tapping Screw with Washer 3x8mm	2
				Y26		Tapping Screw with Washer 3x10mm	15
				Y27		Tapping Screw with Washer 3x12mm	4
				Y28		Tapping Screw with Washer 3x14mm	10

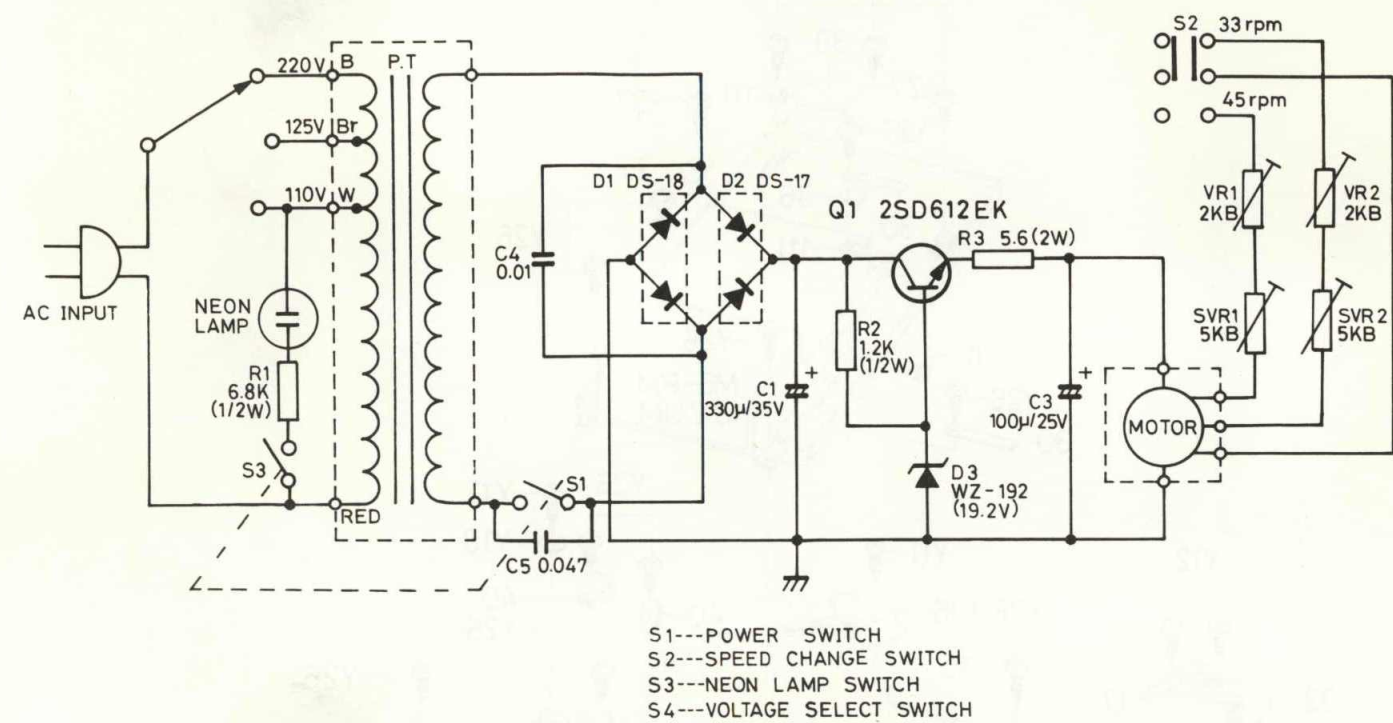
CHASSIS EXPLODED VIEW



ARM EXPLODED VIEW



SCHEMATIC DIAGRAM



WIRING DIAGRAM

