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SERVICE MANUAL

TWO-SPEED DIRECT-DRIVE TURNTABLE

SANSUI SR-717



Sansui

SANSUI ELECTRIC CO., LTD.

This service manual is designed for service engineers to repair, adjust, maintain and order the replacement parts of the SR-717 correctly. When ordering the parts, use the stock number and parts name specifically referring to the parts list.

For general usage and maintenance of the unit, please refer to the operating instructions attached with the unit.

1. SPECIFICATIONS

TYPE	Two-Speed Direct Drive
SPEEDS	33 $\frac{1}{3}$ and 45r.p.m.
FINE SPEED ADJUSTMENT	
RANGE	$\pm 4\%$
PLATTER	Aluminum alloy die cast 30cm (12") diameter, 1.4kg (3.1 lbs)
MOTOR	20-pole brushless DC serbo-type
WOW & FLUTTER	0.035% (W.R.M.S.)
S/N	Better than 60dB
TO NEARM	Statically-balanced S-shaped tubular
TO NEARM LENGTH	235mm (9 $\frac{1}{4}$ ")
OVERHANG	16.5mm ($\frac{5}{8}$ ")
SUITABLE CARTRIDGE WEIGHT	
.....	4 to 11g (11 to 18g using sub-weight)
FEATURES	Direct-readout stylus pressure dial, 4-contact plug-in head shell, oil- damped tonearm lifter, inside-force canceller, lateral balancer, sub- weight etc.
POWER REQUIREMENTS ..	100, 117, 220, 240V 50/60Hz
POWER CONSUMPTION ..	5W (Rated)
DIMENSIONS	508mm (20") W, 182mm (7 $\frac{3}{16}$ ") H, 394mm (15 $\frac{1}{2}$ ") D
WEIGHT	13.1kg (28.9 lbs) net, 15.1kg (33.3 lbs) packed

* Design and specifications subject to change without notice for improvement. www.vinylengine.com

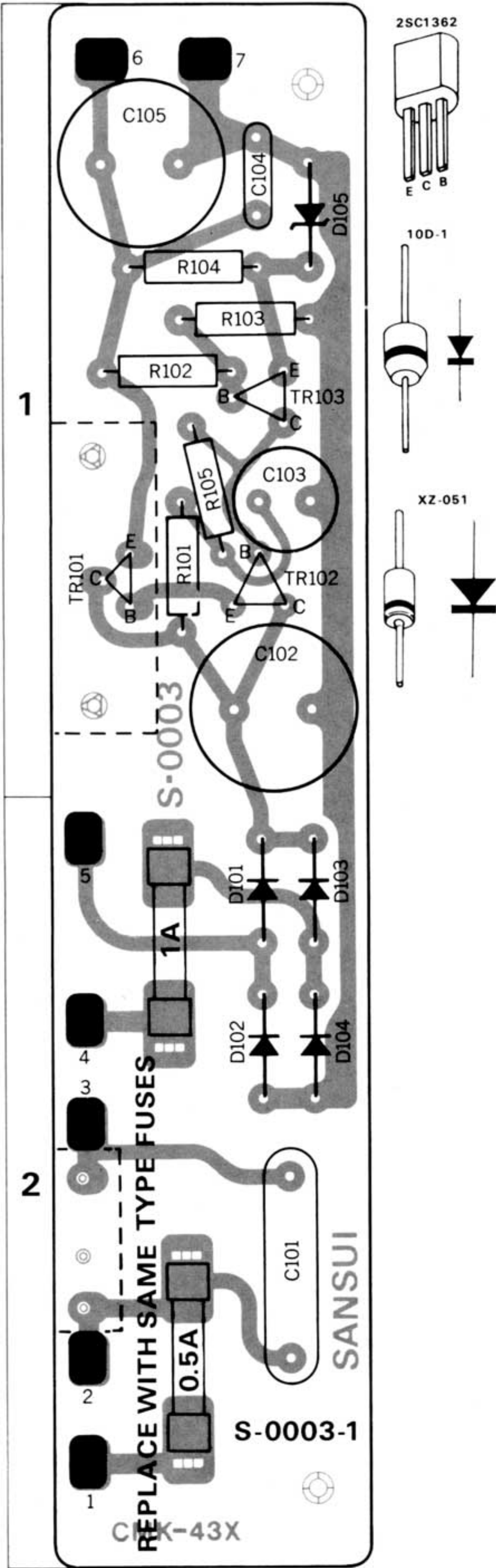
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2. PARTS LOCATIONS AND PARTS LIST

2-1. S-0003-1 Power Supply Circuit Board (Stock No. 7500950 Complete Circuit Board S-0003-1)

Conductor Side



Parts List

Parts No.	Stock No.	Description	Position		
TR ₁₀₂	0306141, 2	2SC1362 ⑤ (7, 8)	Transistor		
	or	or			
	0306144, 5	2SC1362 ⑥ (7, 8)			
TR ₁₀₃	0306141, 2	2SC1362 ⑤ (7, 8)			
	or	or			
	0306144, 5	2SC1362 ⑥ (7, 8)	1		
D ₁₀₁	0310340	10D-1	Diode	2	
D ₁₀₂	0310340	10D-1		2	
D ₁₀₃	0310340	10D-1		2	
D ₁₀₄	0310340	10D-1		2	
D ₁₀₅	0316380	XZ-051	Zener Diode	1	
C ₁₀₁	0605476	0.0047 μ F	250V	M.C.	2
C ₁₀₂	0515471	470 μ F	50V	E.C.	1
C ₁₀₃	0513470	47 μ F	25V	E.C.	1
C ₁₀₄	0657473	47000pF	50V	C.C.	1
C ₁₀₅	0513471	470 μ F	25V	E.C.	1
R ₁₀₁	0107561	560 Ω	$\pm 5\%$ $\frac{1}{4}$ W	C.R.	1
R ₁₀₂	0107222	2.2K Ω			1
R ₁₀₃	0107821	820 Ω			1
R ₁₀₄	0107152	1.5K Ω			1
R ₁₀₅	0107332	3.3K Ω			1
	0432640	0.5A	Power Fuse	2	
	0432660	1A		2	

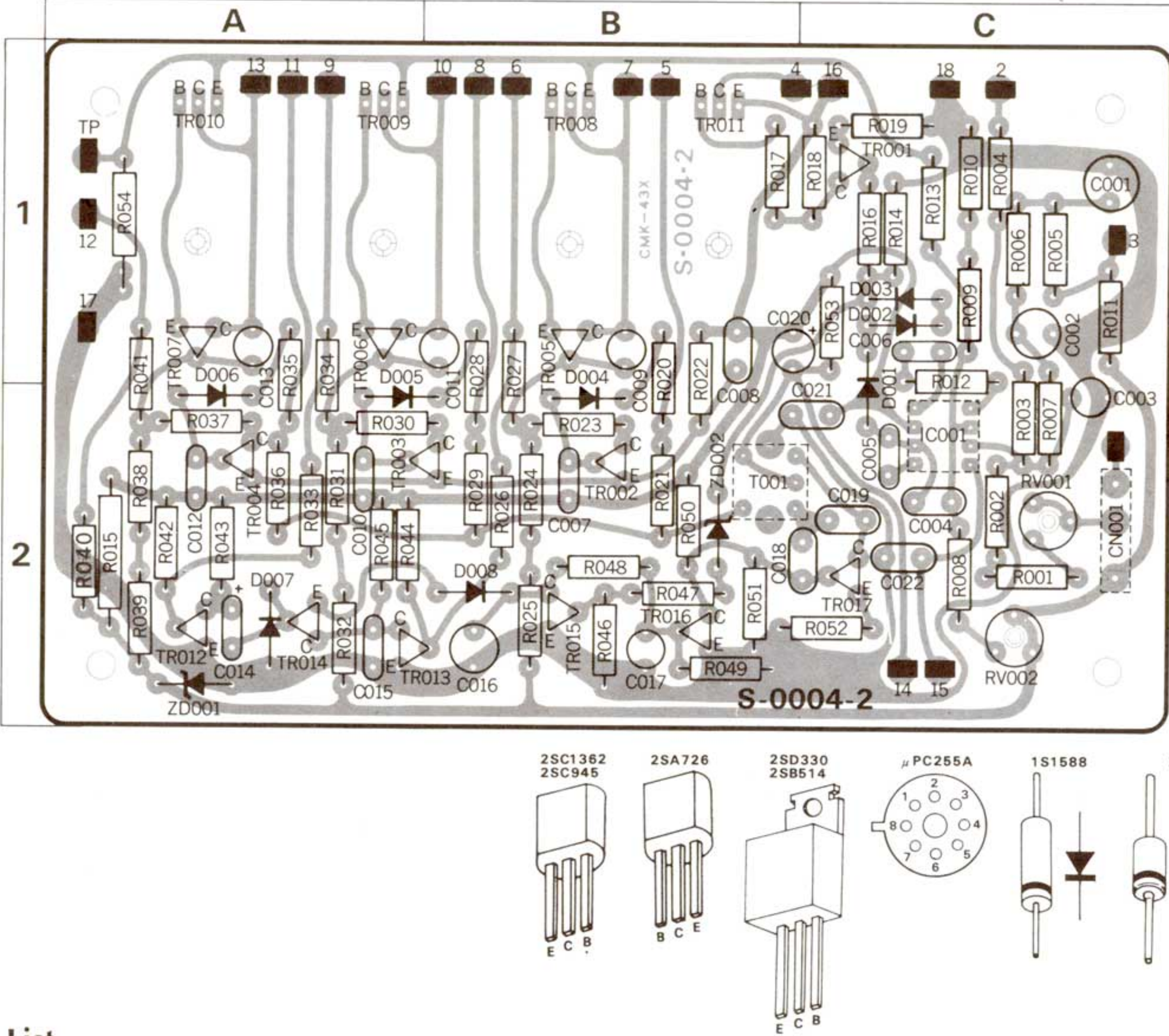
Abbreviations

C.R. :	Carbon Resistor	BP.E.C.:	Bi-Polar Electrolytic Capacitor
S.R. :	Solid Resistor	C.C. :	Ceramic Capacitor
Ce.R. :	Cement Resistor	Mi.C. :	Mica Capacitor
M.R. :	Metallized Film Resistor	O.C. :	Oil Capacitor
M.C. :	Mylar Capacitor	P.C. :	Polystyrene Capacitor
E.C. :	Electrolytic Capacitor	T.C. :	Tantalum Capacitor

2-2. S-0004-2 Control Circuit Board

(Stock No. 7630090 Complete Circuit Board S-0004-2)

Conductor Side



Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR001	0305951-3	2SC945 (Q, P, K)	1 C	TR011	0303252, 3	2SB514 (E, F)	1 B
TR002	0300410, 1	2SA726 [®] (F, G)	2 B	TR012	0305951-3	2SC945 (Q, P, K)	2 A
	or	or		TR013	0305951-3	2SC945 (Q, P, K)	2 A, B
TR003	0300470, 1	2SA726 [®] (F, G)	2 A, B	TR014	0305951-3	2SC945 (Q, P, K)	2 A
	or	or		TR015	0505951-3	2SC945 (Q, P, K)	2 B
TR004	0300410, 1	2SA726 [®] (F, G)	2 A	TR016	0305951-3	2SC945 (Q, P, K)	2 B
	or	or		TR017	0305951-3	2SC945 (Q, P, K)	2 C
TR005	0300470, 1	2SA726 [®] (F, G)	2 A	IC001	0360160	μpc255A IC	2 C
	0306141	2SC1362 [®] (7)	1 B	D001	0311180	1S1588	1, 2 C
	or	or		D002	0311180	1S1588	1 C
TR006	0306144	2SC1362 [®] (7)	1 A	D003	0311180	1S1588	1 C
	or	or		D004	0311180	1S1588	2 B
TR007	0306141	2SC1362 [®] (7)	1 A	D005	0311180	1S1588	2, A B
	or	or		D006	0311180	1S1588	2 A
TR008	0308362	2SD330 (E)	1 B	D007	0311180	1S1588	2 A
TR009	0308362	2SD330 (E)	1 A	D008	0311180	1S1588	2 B
TR010	0308362	2SD330 (E)	1 A	ZD001	0316380	XZ-051	2 A
				ZD002	0316380	XZ-051	2 B
				T001	4220560	CAN-30444R OSC Coil	2 B, C

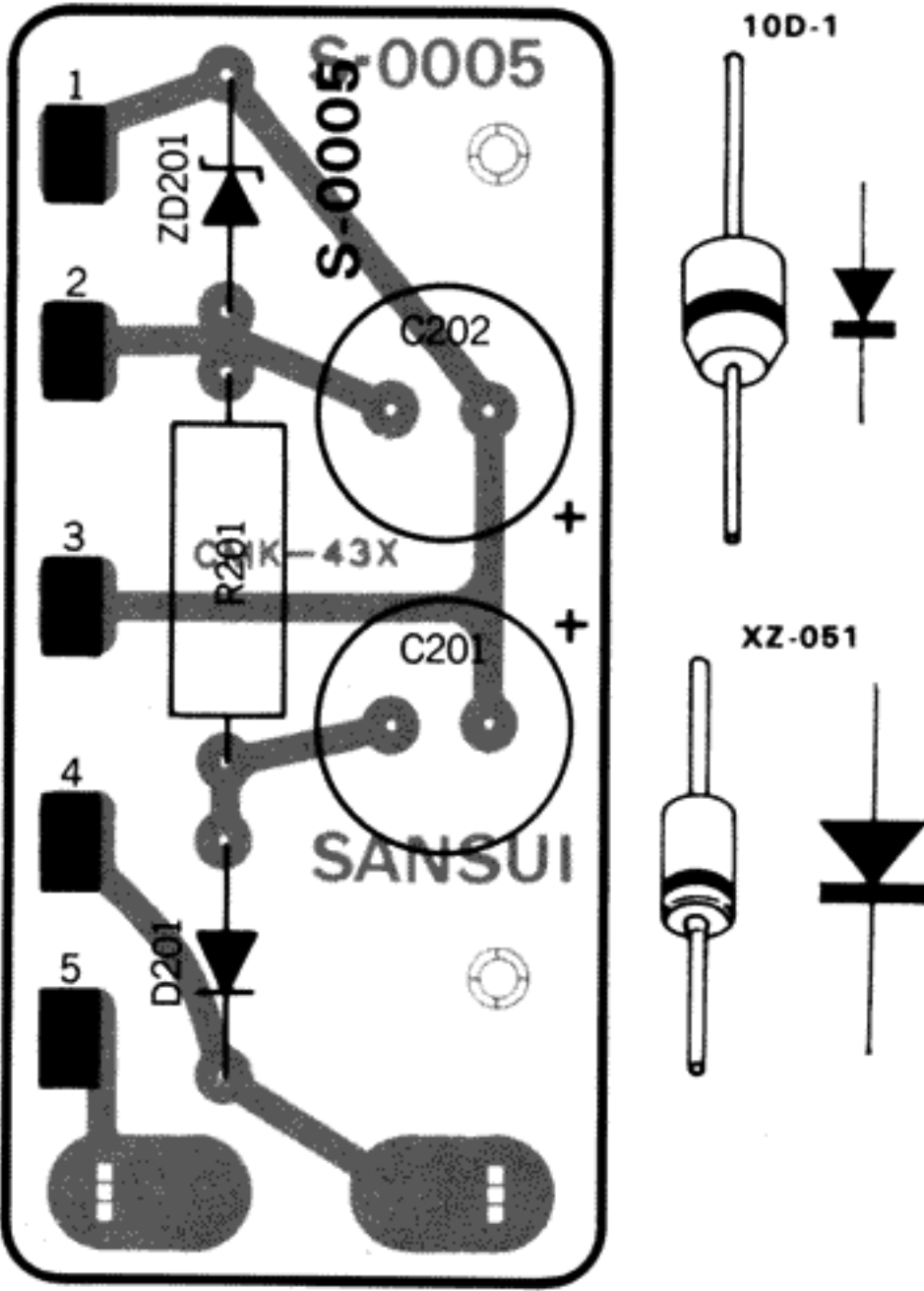
Parts No.	Stock No.	Description	Position
C001	0532470	47 μ F 16V	1 C
C002	0533220	22 μ F 25V	1 C
C003	0533479	4.7 μ F 25V	1, 2 C
C004	0660220	220pF 50V	2 C
C005	0660101	100pF 50V	2 C
C006	0600226	0.0022 μ F 50V	1 C
C007	0600477	0.047 μ F 50V	2 B
C008	0600108	0.1 μ F 50V	1 B
C009	0535478	0.47 μ F 50V	1 B
C010	0600477	0.047 μ F 50V	2 A
C011	0535478	0.47 μ F 50V	1 B
C012	0600477	0.047 μ F 50V	2 A
C013	0535478	0.47 μ F 50V	1 A
C014	0519104	1.5 μ F 50V	2 A
C015	0657473	0.0047 μ F 50V	2 A
C016	0533220	22 μ F 25V	2 B
C017	0533229	2.2 μ F 25V	2 B
C018	0600226	0.0022 μ F 50V	2 C
C019	0600227	0.022 μ F 50V	2 C
C020	0519104	1.5 μ F 50V	1 B, C
C021	0657473	0.0047 μ F 50V	2 B, C
C022	0657473	0.0047 μ F 50V	2 C
R001	0107823	82k Ω	2 C
R002	0107682	6.8k Ω	2 C
R003	0107103	10k Ω	1, 2 C
R004	0107124	120k Ω	1 C
R005	0107102	1k Ω	1 C
R006	0107123	1.2k Ω	1 C
R007	0107103	10k Ω	1, 2 C
R008	0107183	18k Ω	2 C
R009	0107152	1.5k Ω	1 C
R010	0107102	1k Ω	1 C
R011	0107562	5.6k Ω	1 C
R012	0107152	1.5k Ω	1 C
R013	0107563	56k Ω	1 C
R014	0107562	5.6k Ω	1 C
R015	0104122	1.2k Ω 1W C.R.	2 A
R016	0107182	1.8k Ω	1 C
R017	0107821	820 Ω	1 B
R018	0107222	2.2k Ω	1 C
R019	0107821	820 Ω	1 C
R020	0107471	470 Ω	1, 2 B
R021	0107561	560 Ω	2 B
R022	0107392	3.9k Ω	1, 2 B
R023	0107682	6.8k Ω	2 B
R024	0107123	12k Ω	2 B
R025	0107182	1.8k Ω	2 B
R026	0107332	3.3k Ω	2 B
R027	0107332	3.3k Ω	1, 2 B
R028	0107471	470 Ω	1, 2 B
R029	0107561	560 Ω	2 B
R030	0107682	6.8k Ω	2 A, B
R031	0107123	12k Ω	2 A
R032	0107182	1.8k Ω	2 A
R033	0107332	3.3k Ω	2 A
R034	0107332	3.3k Ω	1, 2 A
R035	0107471	470 Ω	1, 2 A
R036	0107561	560 Ω	2 A
R037	0107682	6.8k Ω	2 A
R038	0107123	12k Ω	2 A
R039	0107182	1.8k Ω	2 A
R040	0107473	47k Ω	2 A
R041	0107332	3.3k Ω	1, 2 A
R042	0107154	150k Ω	2 A

Parts No.	Stock No.	Description	Position
R043	0107222	2.2k Ω	2 A
R044	0107154	150k Ω	2 A
R045	0107222	2.2k Ω	2 A
R046	0107222	2.2k Ω	2 B
R047	0107682	6.8k Ω	2 B
R048	0107562	5.6k Ω	2 B
R049	0107332	3.3k Ω	2 B
R050	0107823	82k Ω	2 B
R051	0107104	100k Ω	2 B
R052	0107121	120 Ω	2 B, C
R053	0107181	180 Ω	1 C
R054	0201229	2.2 Ω 1W C.R.	1 A
RV001	1035150	22k Ω (B)	2 C
RV002	1035130	10k Ω (B)	2 C

2-3. S-0005 Bias Circuit Board

(Stock No. 7500960 Complete Circuit Board S-0005)

Conductor Side



Parts List

Parts No.	Stock No.	Description
D201	0310340	10D-1 Diode
ZD201	0316380	XZ-051 Zener Diode
C201	0513221	220 μ F 25V E.C.
C202	0511471	470 μ F 10V E.C.
R201	0104561	560 Ω 1W C.R.

Abbreviations

C.R.	: Carbon Resistor	BP.E.C.:	Bi-Polar Electrolytic Capacitor
S.R.	: Solid Resistor	C.C.	: Ceramic Capacitor
Ce.R.	: Cement Resistor	Mi.C.	: Mica Capacitor
M.R.	: Metallized Film Resistor	O.C.	: Oil Capacitor
M.C.	: Mylar Capacitor	P.C.	: Polystyrene Capacitor
E.C.	: Electrolytic Capacitor	T.C.	: Tantalum Capacitor

3. DISASSEMBLY WITH EXPLODED VIEWS, PARTS LOCATIONS AND PARTS LIST

Parts List (※Differences between SR-717 and SR-717E)

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
1	7012050	Dust Cover Ass'y	※52	{ 4310190	Cartridge Ass'y (SC-38)
	5062220	Dust Cover			Not Included in SR-717E
	5362013	Name Plate, dust cover	53	7092300	Tonearm Ass'y
	6922210	Lock Plate		6912330	Main Weight
	5502021	Rubber Cushion		6912350	Lateral Weight
	5109563	B Type Screw, M4×10		6912370	Bias Weight
2	5392111	Turntable Ring	54	5105520	SS Type Screw, M2.6×3
3	5502441	Rubber Mat, turntable	55	7082150	Tonearm Guide
4	6112110	Turntable (Platter)	56	7082140	Tonerm Lifter Ass'y
5	5108464	PT Type Screw, M3×12	57	6502690	Cueing Lever
6	5052030	Transformer Cover	58	5110241	Hex. Nut, M3
7	5107869	PSA Type Screw, M4×25	59	5121340	S Type Washer, 3φ
8	4320300	Motor Ass'y	60	5120141	P Type Washer, 3φ
9	7012040	Stroboscope Lamp Cover	61	6622210	Arm Rest Ass'y
10	0410080	Stroboscope Lamp		6622193	Arm Rest
11	5107743	PSB Type Screw, M3×6		5232333	Arm Rest Stand
12	5222210	Lock Plate, voltage selector		6412111	Cramp, arm rest
13	5107768	PSB Type Screw, M4×20	62	5322090	Button, speed selector
14	5107762	PSB Type Screw, M4×8	63	5312200	Knob, pitch controls
15	5107744	PSB Type Screw, M3×8	64	5107743	PSB Type Screw, M3×6
16	{ 2090050	Voltage Selector (Socket)	65	5151004	E Type Washer, 3φ
	{ 2410820	Voltage Selector (Plug)	66	5120161	P Type Washer, 4φ
17	5107743	PSB Type Screw, M3×6	67	5182330	P Type Washer, 4φ
18	5107743	PSB Type Screw, M3×6	68	6012231	Cueing Cam
19	5226012	Holder, bias circuit board ass'y	69	5151004	E Type Washer, 3φ
20	7500960	Bias Circuit Board Ass'y (S-0005)	70	6502680	See-saw Plate
21	7630090	Control Circuit Board Ass'y (S-0004-2)	71	5151004	E Type Washer, 3φ
22	5107743	PSB Type Screw, M3×6	72	5107743	PSB Type Screw, M3×6
23	5052050	Cover, lug terminal	73	6902871	Retainer, steel ball
24	0104392	3.9kΩ 1W Carbon Resistor	74	6322020	Steel Ball
25	2110150	2L2 Lug Terminal	75	1005200	15kΩ Single Variable Resistor
26	5107743	PSB Type Screw, M3×6	76	1005190	20kΩ Single Variable Resistor
27	5107743	PSB Type Screw, M3×6	77	5107847	PSA Type Screw, M3×14
28	2120010	M3 Lug Terminal	78	1160180	Micro Switch (K-1)
29	5226012	Holder, power supply circuit board ass'y	79	5107847	PSA Type Screw, M3×14
30	7500950	Power Supply Circuit Board Ass'y (S-0003-1)	80	1160210	Micro Switch
31	3910490	Cord Stopper	81	5107743	PSB Type Screw, M3×6
32	3800020	Power Cord (KP-200)	82	6902861	Retainer, tonearm lifter
33	5106533	P Type Screw, M3×6	83	6512130	Lever, lifter linkage
34	0308392	Transistor 2SD313 (E)	84	7022051	Bracket, control block
35	5107762	PSB Type Screw, M4×8	85	7002080	Control Base Sub Ass'y
36	4002060	Power Transformer		5362360	Name Plate, model
37	5242422	Bottom Plate		5362391	Name Plate, control
38	5103072	P Type Screw, M4×40	86	5101043	B Type Screw, M3×6
39	5120161	P Type Washer, 4φ	87	2210210	Terminal Board Ass'y
40	5108465	PT Type Screw, M3×12	88	3810190	PU Output Cord
41	5512100	Insulator	89	7172070	Cabinet Ass'y
42		Bottom Plate (A)		5732354	Cabinet
43	5103040	P Type Screw, M3×3		6922200	Auto Hinge
44		Nut, tonearm		5332022	Badge
45		Washer, tonearm			
46	5182431	Blind Washer			
47		Tonearm Base			
48	5162470	Hexagon Socket Head Capscrew, M3×20			
49		Control Base Ass'y			
50	{	Head Shell Ass'y (SR-717)			
		Not Included in SR-717E			
51	6642110	Head Shell Sub Ass'y			

1 ~ 30
31 ~ 60
61 ~ 89

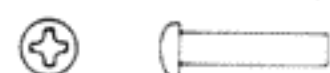
1. Pan Head Tapping
ScrewPT Type



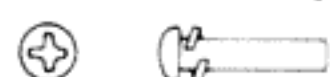
2. Washer Head
Tapping Screw
..... WT Type



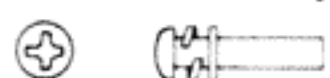
3. Pan Head Screw
..... P Type



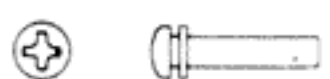
4. Pan Head SEMS A
Screw ..PSA Type



5. Pan Head SEMS B
Screw ..PSB Type



6. Binding Head
SEMS F Screw
..... BSF Type



7. Binding Head
Screw.....B Type



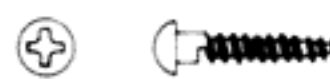
8. Flat Countersunk
Head Screw
..... F Type



9. Flat Countersunk
Wood Screw
..... FC Type



10. Round Head
Wood Screw
..... RH Type



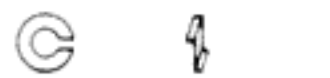
11. Hex. Socket
Setscrew
..... SC Type



12. Slot Type
Setscrew
..... SS Type



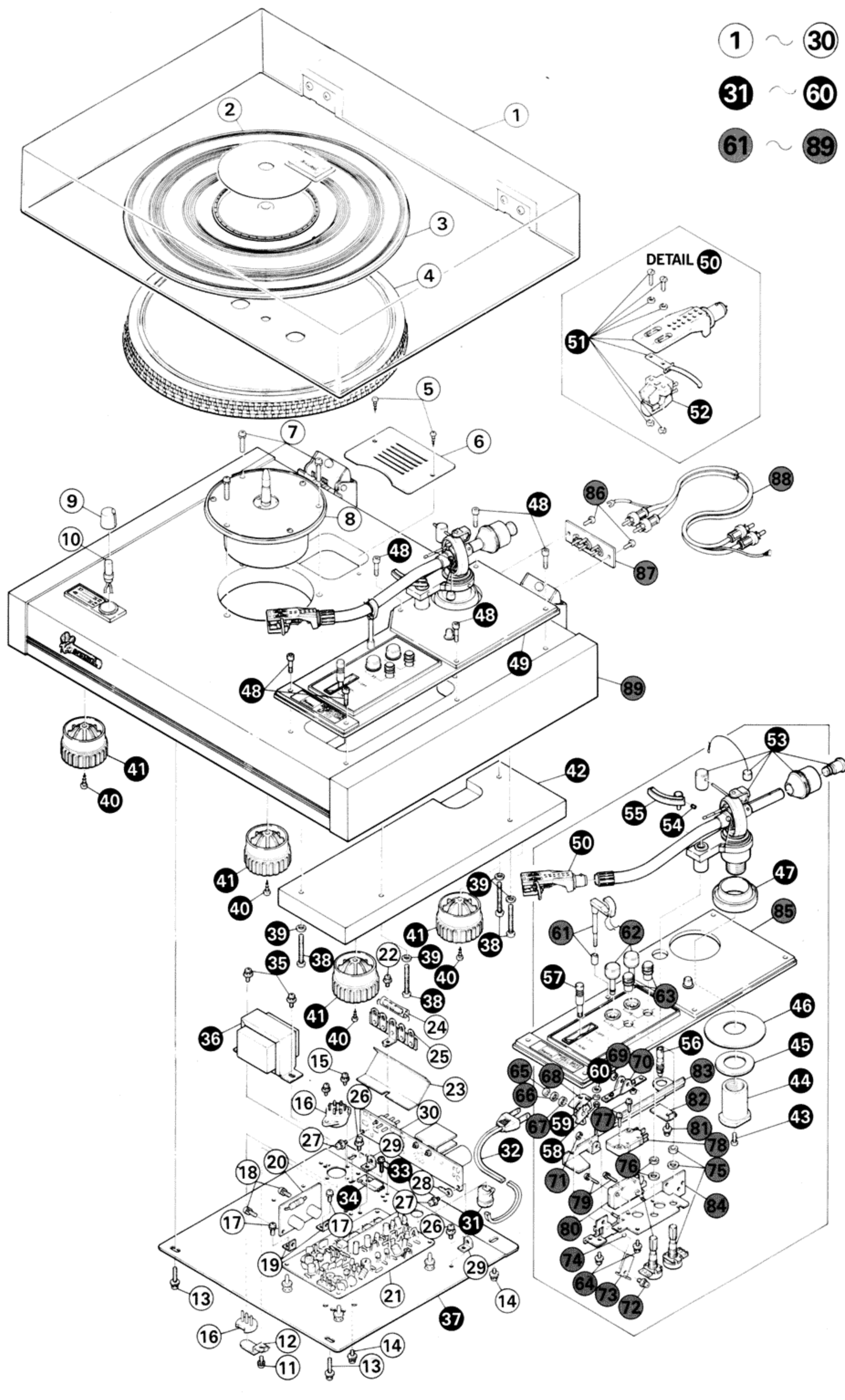
13. Spring Washer
..... S Type



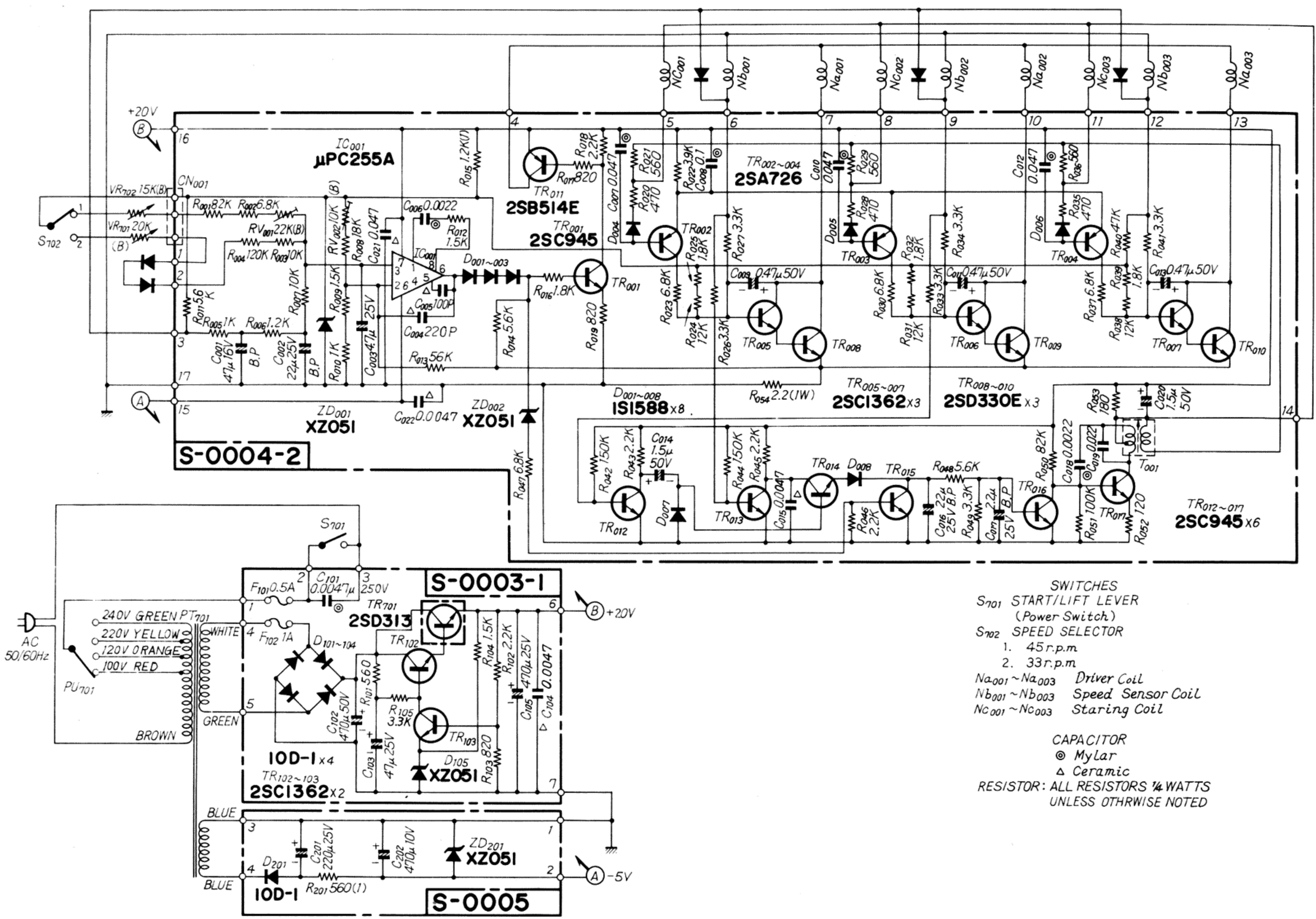
14. Plain Washer
..... P Type



15. Retaining Ring
(E Washer)
..... E Type

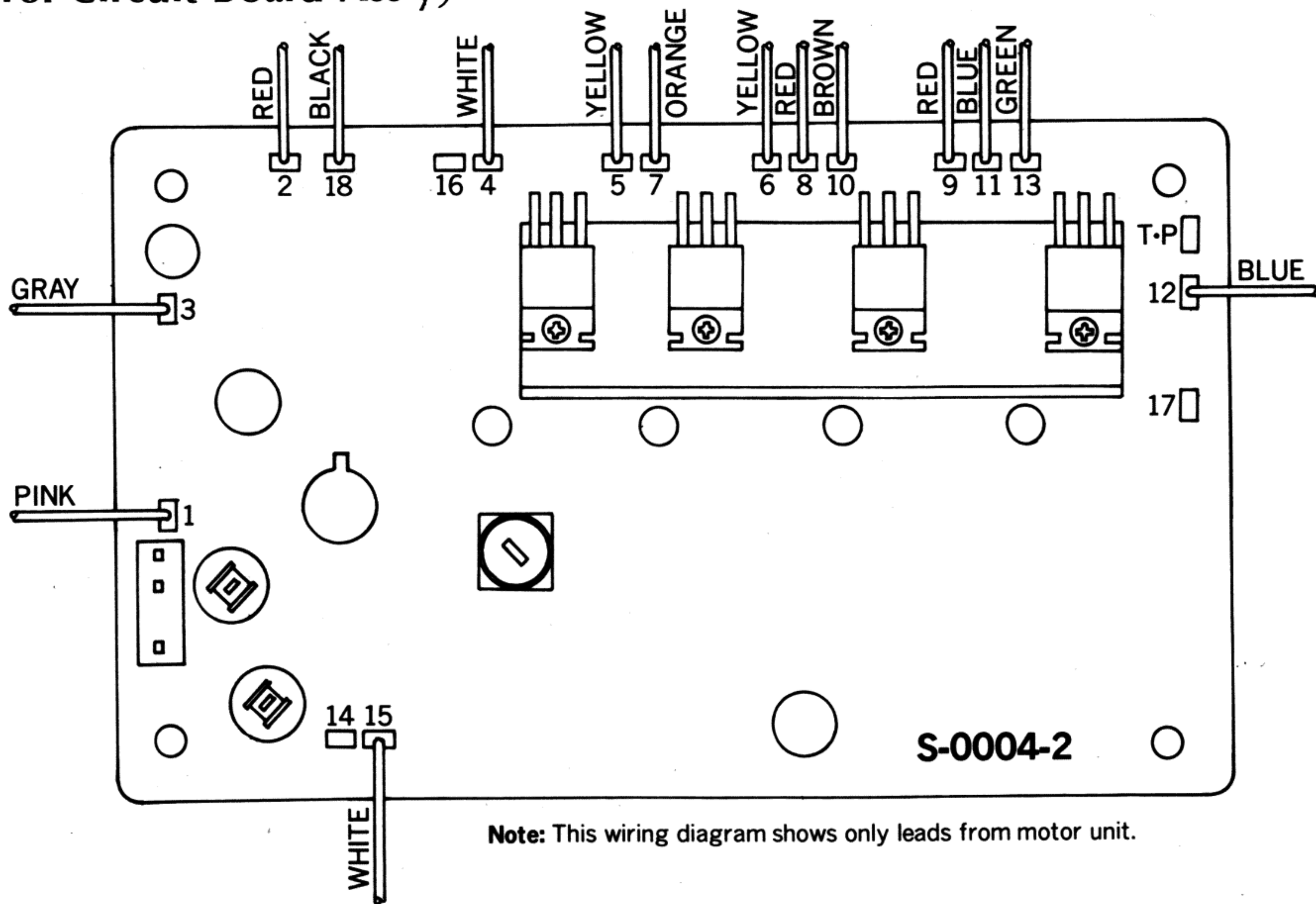


4. SCHEMATIC DIAGRAM



5. WIRING

(Control Circuit Board Ass'y)

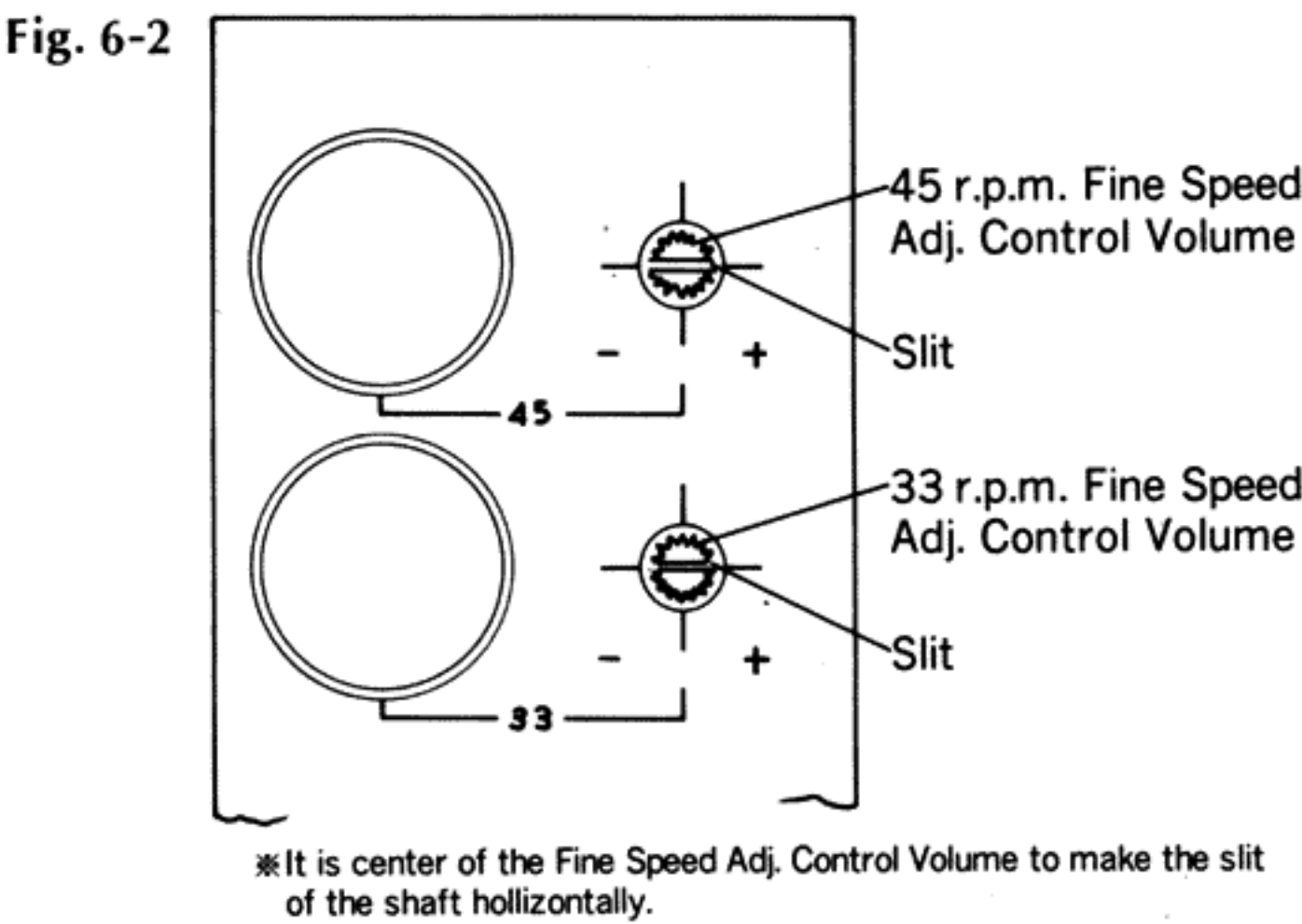
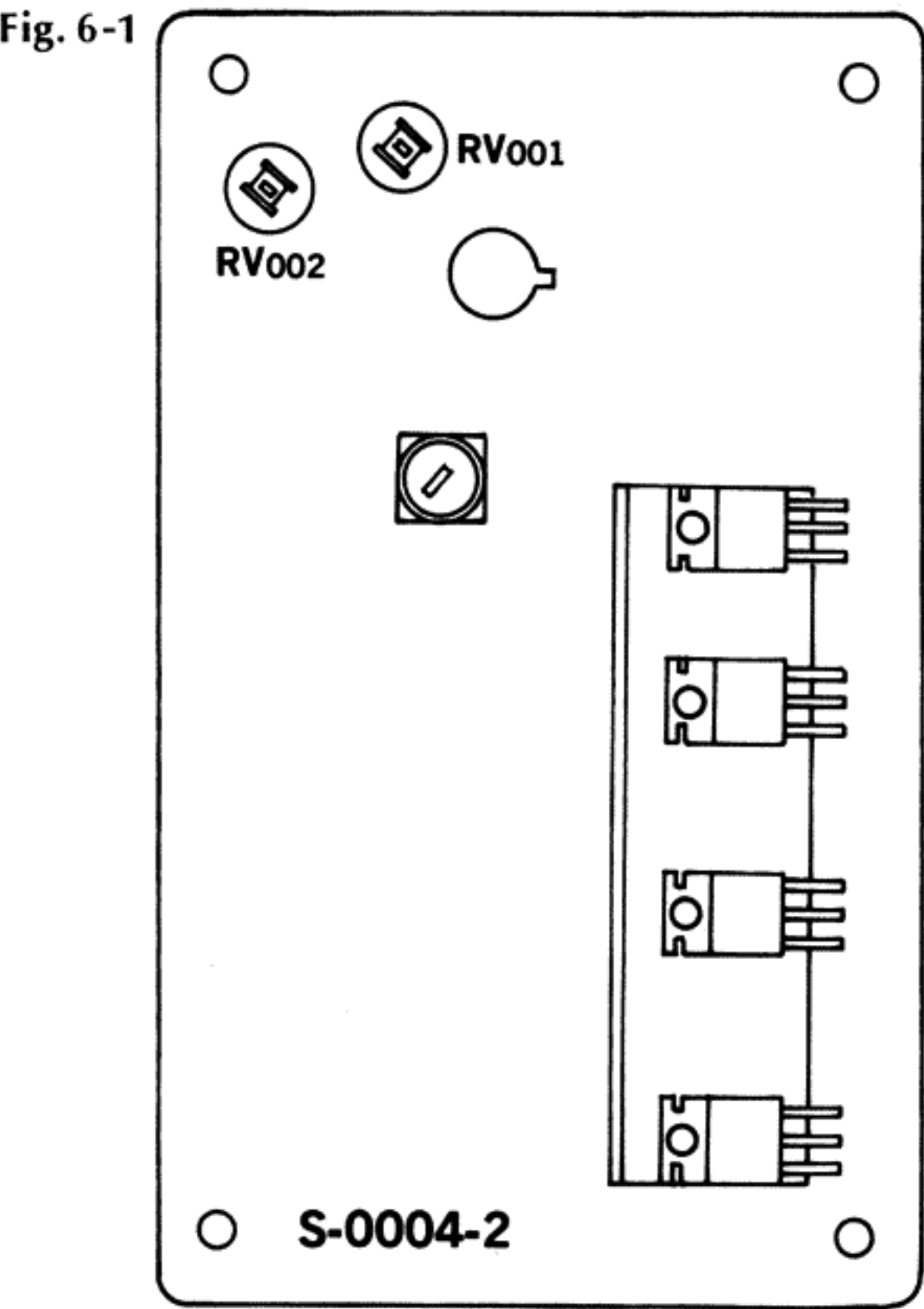


6. ADJUSTMENT (See Fig. 6-1, 6-2, 6-3 and 6-4)

6-1. Pre- Adjustment

- Basically, any adjustment is unnecessary as RV001 and RV002 on control circuit board, S-0004-2, were exactly adjusted in factory. If necessary, please perform the following steps (See Fig. 6-1).
- 1) Remove the knobs for two Fine Speed Adj. Controls, then turn them to center both 33 and 45r.p.m. (See Fig. 6-2).
 - 2) Depress Speed Selector Button for 33r.p.m., then adjust RV002 until the stroboscope shows standstill.
 - 3) Depress Speed Selector Button for 45r.p.m., then adjust RV001 until the stroboscope shows standstill as well.

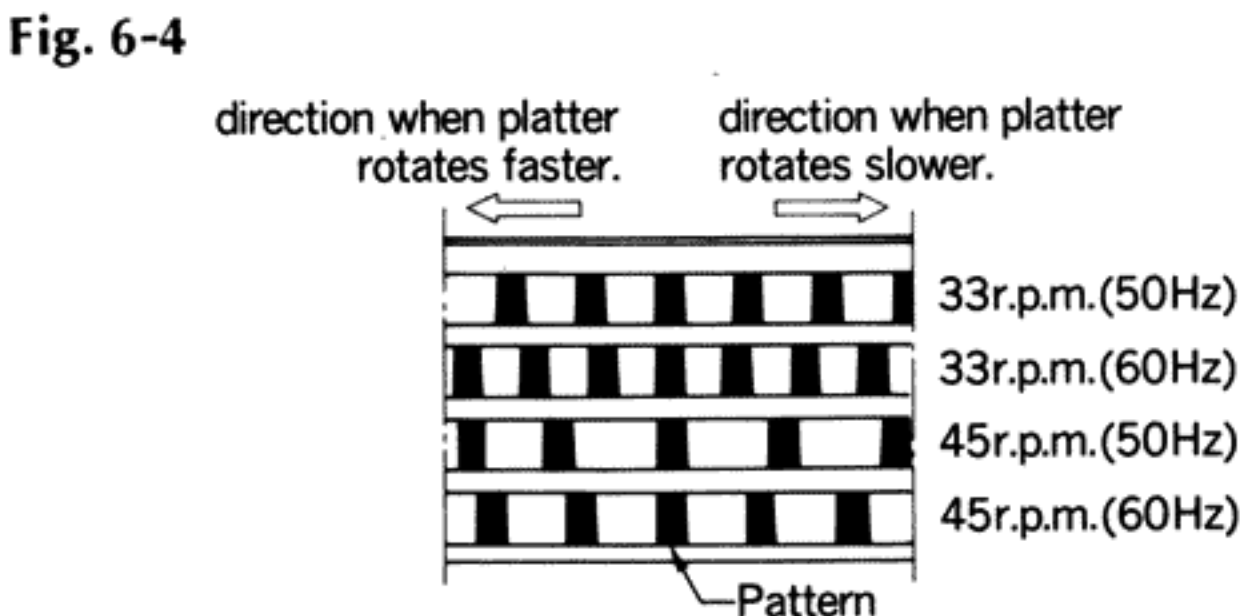
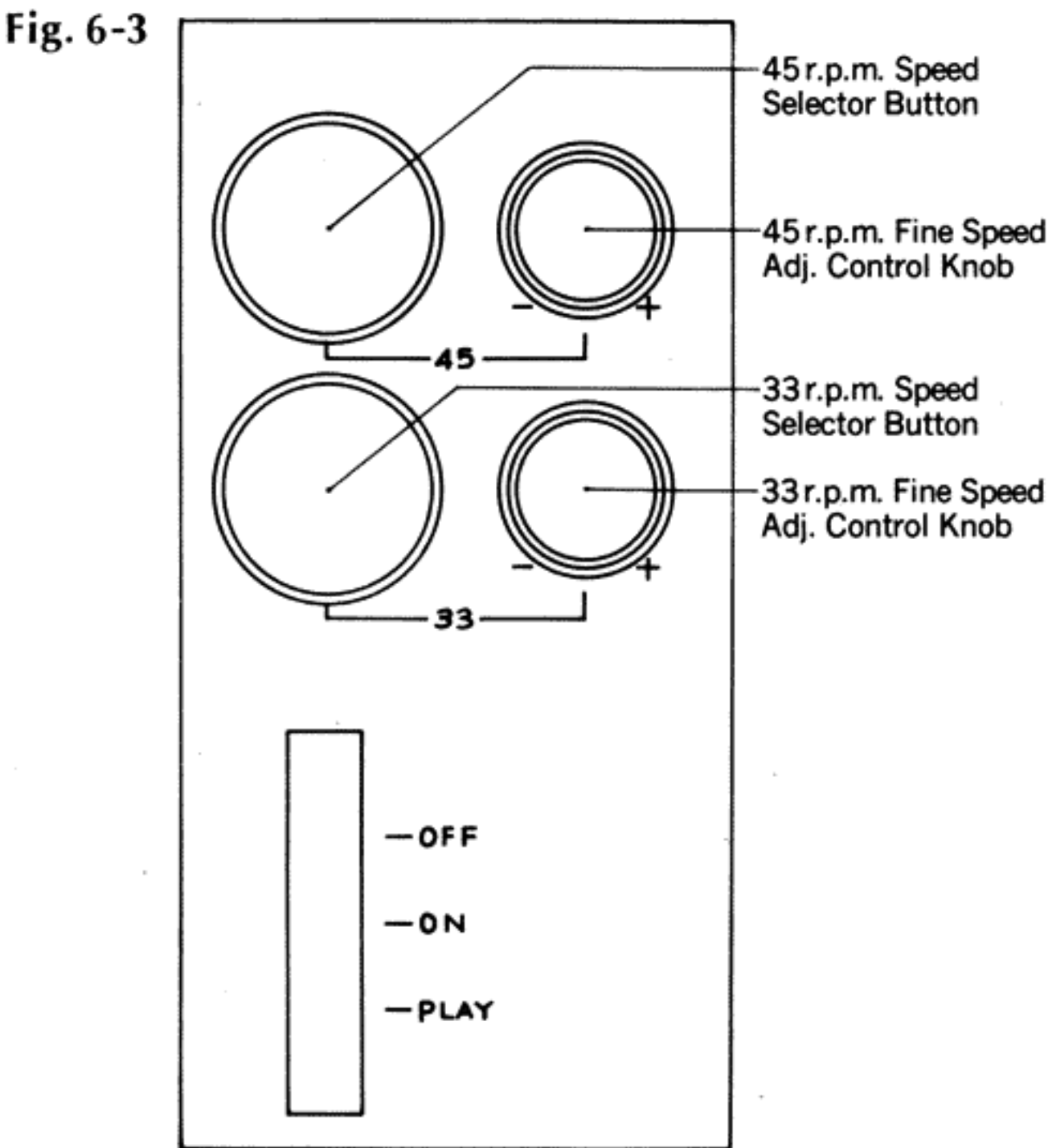
Note: To secure the adjustment, perform the 33 r.p.m. speed adjustment first as described above.



6-2. Fine Adjustment

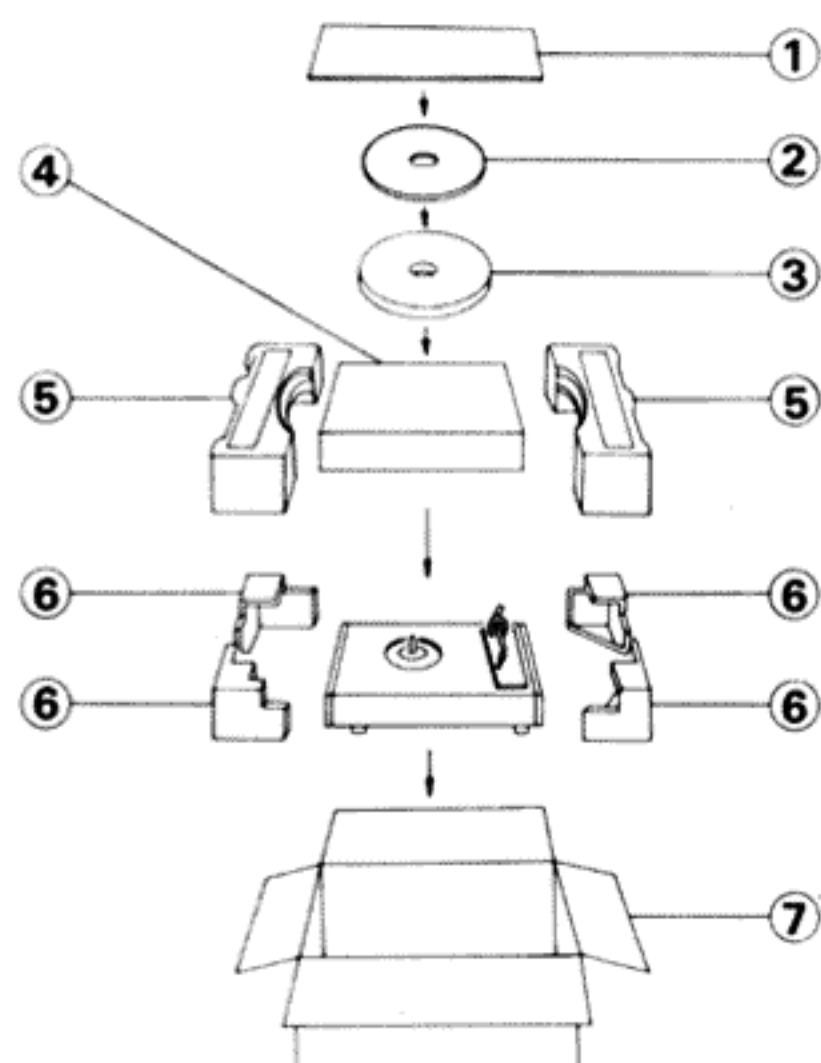
- 1) How to adjust the speed
To insure an accurate speed, push the Speed Selector Button for 33 $\frac{1}{3}$ r.p.m. or 45 r.p.m. then proceed the Fine speed Adjustment by turning fine speed Adj. Control knob, observing the stroboscope around platter.
Namely,
When turning up the knob to ⊕ (Clockwise), the speed becomes faster.
When turning down the knob to ⊖ (Counterclockwise), the speed becomes slower.
- 2) How to see the stroboscope
There are four patterns showing 50Hz or 60Hz for 33 $\frac{1}{3}$ r.p.m. or 45 r.p.m. respectively.
Please refer to the list below.

Symptom	Speed	Adjustment
1. The Pattern flows to left direction.	Faster	Turn down fine speed Adj. Control knob to ⊖ (Counterclockwise)
2. The Pattern flows to right direction.	Slower	Turn up fine speed Adj. Control knob to ⊕ (Clockwise)
3. The Pattern shows standstill.	Correct	Any adjustment is not necessary.



7. PACKING LIST

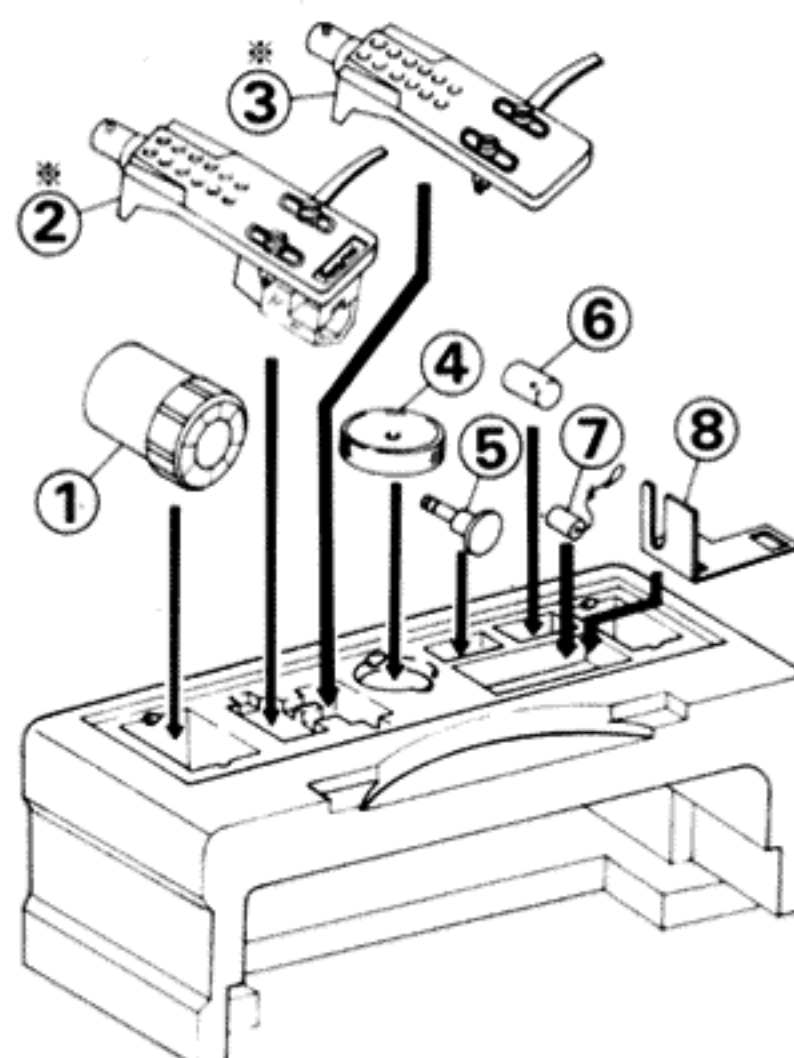
Parts No.	Stock No.	Description
1	901215J	Inner Packing
2	{ 5392110	Turntable Ring
	{ 5502441	Turntable Rubber Mat
3	6112110	Platter
4	7012050	Dust Cover Ass'y
5	9022380	Stylofoam Packing (Top)
6	9022390	Stylofoam Packing (Bottom)
7	9002371	Carton Case



8. ACCESSORY PARTS LIST

※Differences between SR-717 and SR-717E

Parts No.	Stock No.	Description
1	6912330	Main Weight
※2	{	Head Shell Ass'y
		Not Included in SR-717E
※3	{	Not Included in SR-717
	6642110	Head Shell Sub Ass'y
4	6172040	45 r.p.m. Adaptor
5	6912340	Sub Weight
6	6912350	Lateral Weight
7	6912370	Bias Weight
8	5242470	Cartridge Mounting Gauge
	9202230	Operating Instructions



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