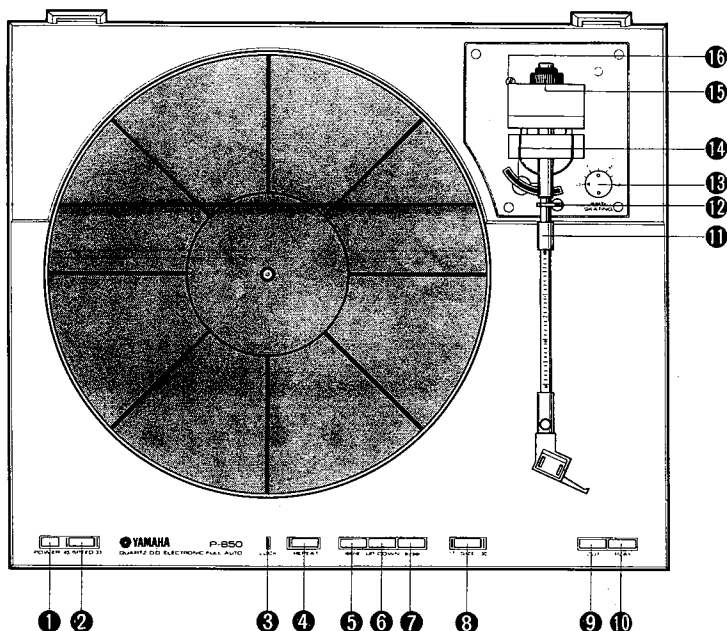


405 COMPUTERIZED RECORD PLAYER

P-850

SERVICE MANUAL



- | | |
|--------------------------------------|---|
| ① Power Switch (POWER) | ⑨ Play Cut Switch (CUT) |
| ② Speed Selector Switch (SPEED) | ⑩ Play Switch (PLAY) |
| ③ Quartz Lock Indicator (LOCK) | ⑪ Tracking force Adjustment Weight |
| ④ Repeat Switch (REPEAT) | ⑫ Arm Rest/Arm Lock |
| ⑤ Tonearm Left Feed Switch (◀ / ◀) | ⑬ Anti-skating (ANTI-SKATING) |
| ⑥ Cueing UP/DOWN Switch (UP/DOWN) | ⑭ Arm Lifter/Stylus Height Adjustment Screw |
| ⑦ Tonearm Right Feed Switch (▶ / ▶▶) | ⑮ Balance Adjustment Knob |
| ⑧ Disc Size Selector Switch (SIZE) | ⑯ LEAD-IN Adjustment Cam |

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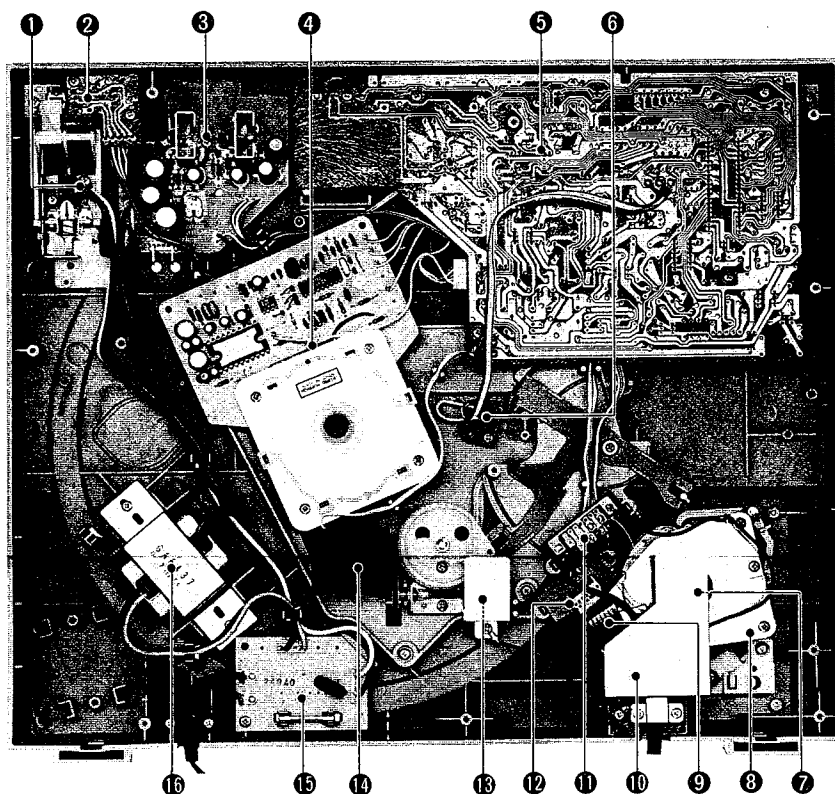
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SINCE 1887  **YAMAHA**
NIPPON GAKKI CO., LTD. HAMAMATSU, JAPAN

'81.6. 2.5K. KT.  Printed in Japan.

INTERNAL VIEW

LOWER SURFACE



- | | |
|----------------------------------|---------------------------------|
| ① Power SW | ⑨ Sensor C. Board |
| ② Control C. Board 3 | ⑩ PU C. Board |
| ③ Control C. Board 2 | ⑪ Control C. Board 5 |
| ④ Phono Motor/Motor C. Board | ⑫ Control C. Board 4 |
| ⑤ Control C. Board 1 | ⑬ Muting SW |
| ⑥ Limit SW | ⑭ Cueing Motor (Vartical drive) |
| ⑦ Tonearm | ⑮ Primary C. Board |
| ⑧ Lateral Drive Motor of tonearm | ⑯ Power Transformer |

■ DISASSEMBLY PROCEDURES

BEFOR DISASSEMBLING SET . . When turning over the set to remove the components from the back side, be sure to remove the rubber mat and turntable, and then secure the tonearm to the arm rest with a string first. (Detach the head shell.) To prevent the dust cover and cabinet from getting scratched or marked, place the set on top of a piece of cloth.

1. Removal of Bottom Cover

Remove screws ①~⑨ shown in Photo 1 and take off bottom cover.

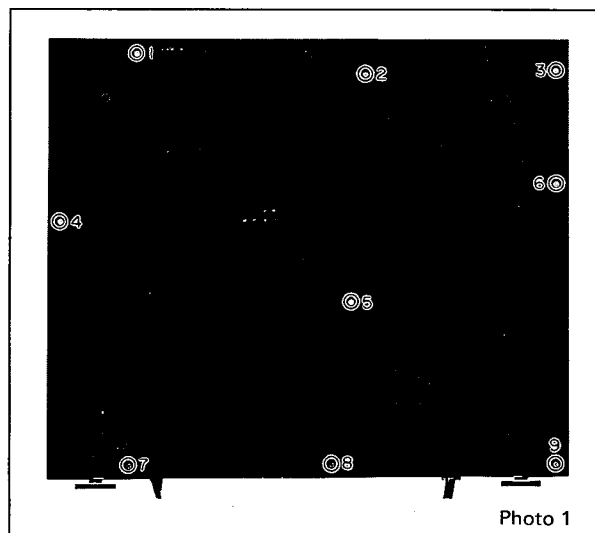


Photo 1

2. Removal of Control C. Board 1

- 1) After undoing screws ①~⑥ shown in Photo 2, lift up and remove the c. board.
- 2) The component parts can be replaced and checked with the set in this condition.
- 3) For complete removal, the lead wires must be removed as well.

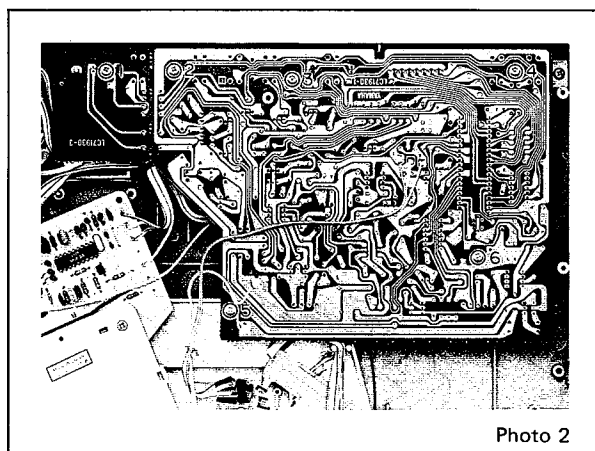


Photo 2

3. Removal of Phono Motor/Motor C. Board

- 1) Remove screws ①~④ shown in Photo 3. Lift up and take off the c. board.
- 2) This condition will permit replacement and checking of components, but for complete removal of c. board, the lead wires must be removed as well.

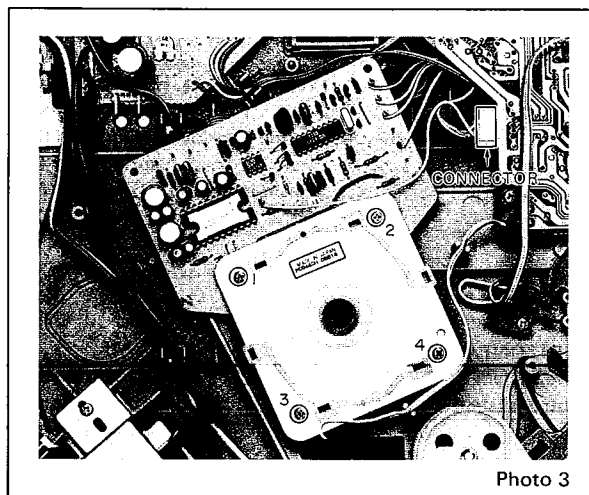


Photo 3

4. Removal of Control C. Boards 2 and 3

- 1) Remove screws ① and ② shown in Photo 4. Take off Control C. Board 3.
- 2) Remove screw ③ shown in Photo 4. Take off Control C. Board 2.
- 3) For complete removal of the c. boards, the respective lead wires must be removed as well.

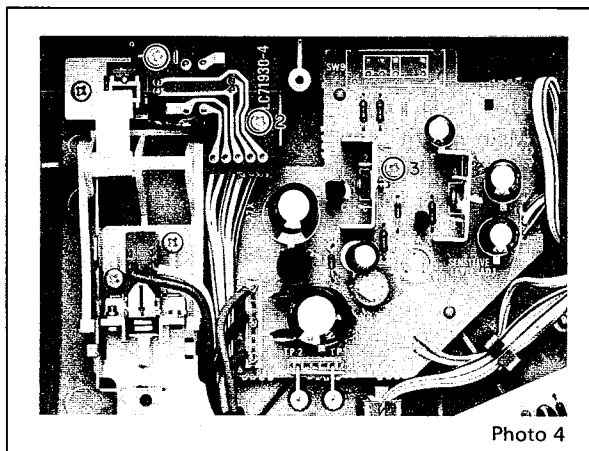
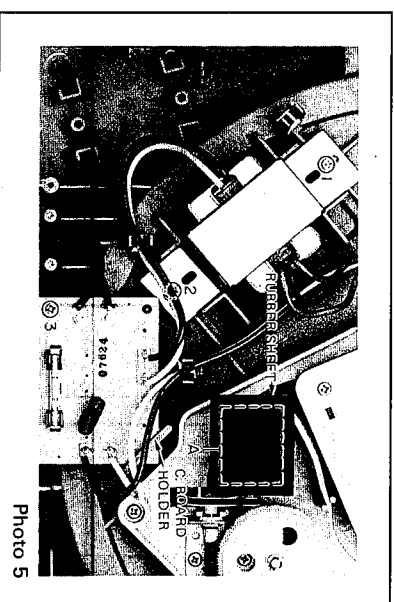


Photo 4

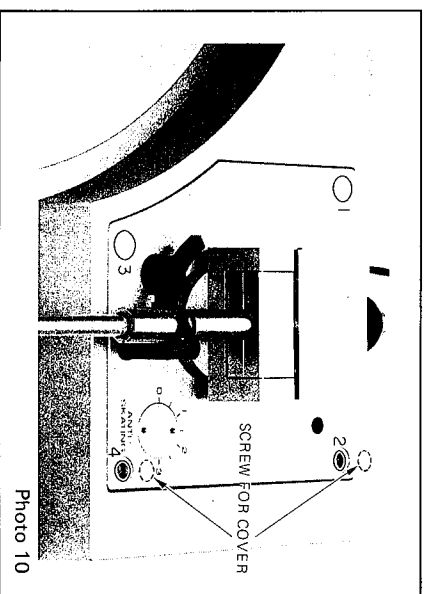
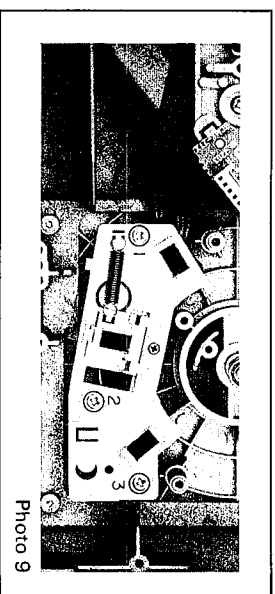
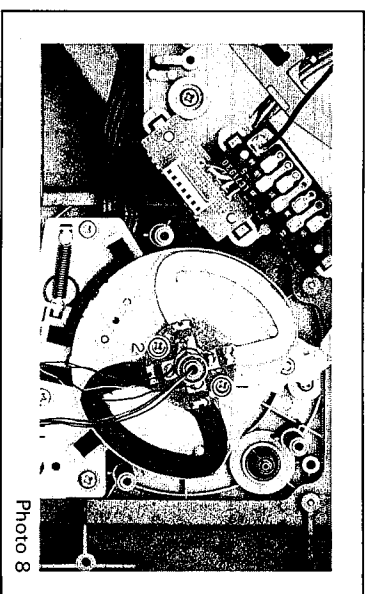
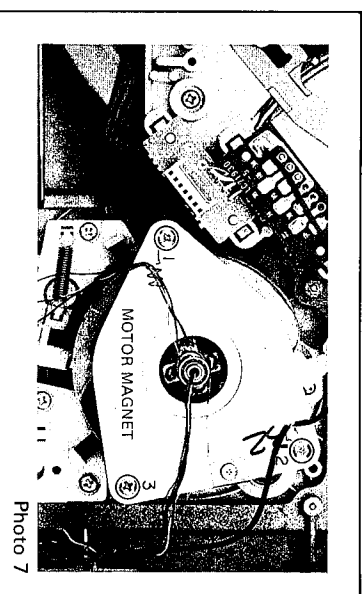
■ ADJUSTMENTS

5. Removal of Power Transformer, Primary C. Board and Cueing Motor

- 1) The power transformer can be dismantled after removing screws ① and ② shown in Photo 5.
- 2) Remove screw ③. Take off primary c. board, disengaging it from the c. board holder.
- 3) The cueing motor is buried inside the rubber sheet marked ④ in Photo 5. Peel off the rubber sheet and take out the motor.

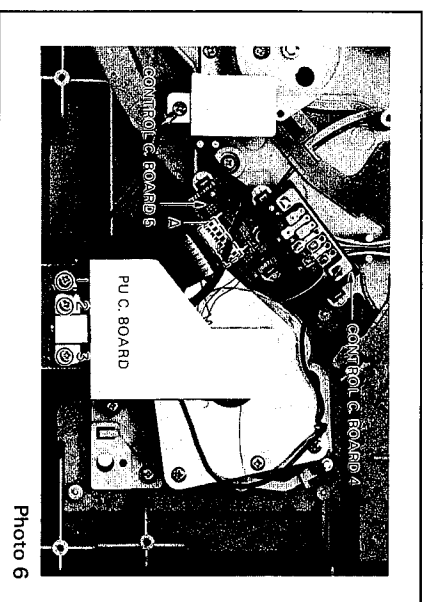


- 5) Undo screws ①~③ shown in Photo 9 to take off Sensor C. Board.
- 6) Turn over the set to its normal position (front side up.)
- 7) After peeling off the screw cover shown in Photo 10, remove screws ①~④. Detach the tonearm.



6. Removal of PU C. Board, Horizontal Drive Motor, Sensor C. Board and Tonearm

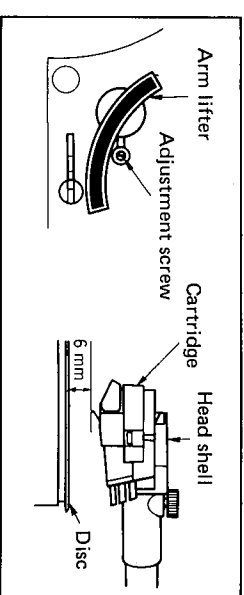
- 1) To remove PU C. Board, remove screws ①~③ shown in Photo 6, and then disconnect the lead wires.
- 2) Take off Connector ④ shown in Photo 6. Disconnect the lead wires (tonearm side) leading out from the Control C. Board 4 shown in Photo 6.



- 3) Remove screws ①~③ shown in Photo 7 and dismount the motor magnet.
- 4) The motor coil will come off when screws ① and ② shown in Photo 8 are removed.

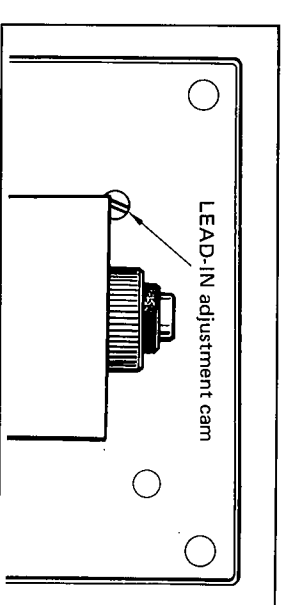
1. Stylus Height Adjustment

- a) Place a disc on the turntable and set the tonearm to the "UP" condition.
- b) In this condition, adjust the stylus height adjustment screw so that the distance between the stylus tip and disc surface will be 6 ± 1 mm.
- c) On completion of adjustment, apply screw lock paint to the screw.



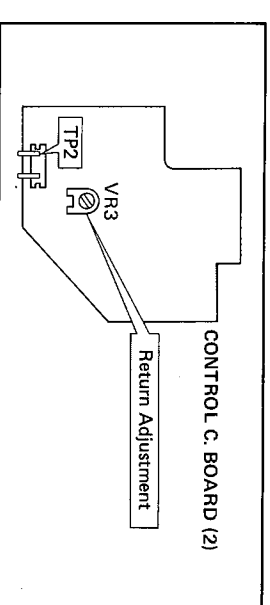
2. LEAD-IN Adjustment

- a) LEAD-IN adjustments for the standard cartridge (CG-6700) with the speed set to 45rpm should be performed in the following manner. Adjust the LEAD-IN cam so as to obtain a LEAD-IN count (for 30cm discs) of 17 ± 13 for Side 1 of NEC Test Record ES-1008, and a count (for 17 cm discs) of 22 ± 13 .



3. Return Adjustment

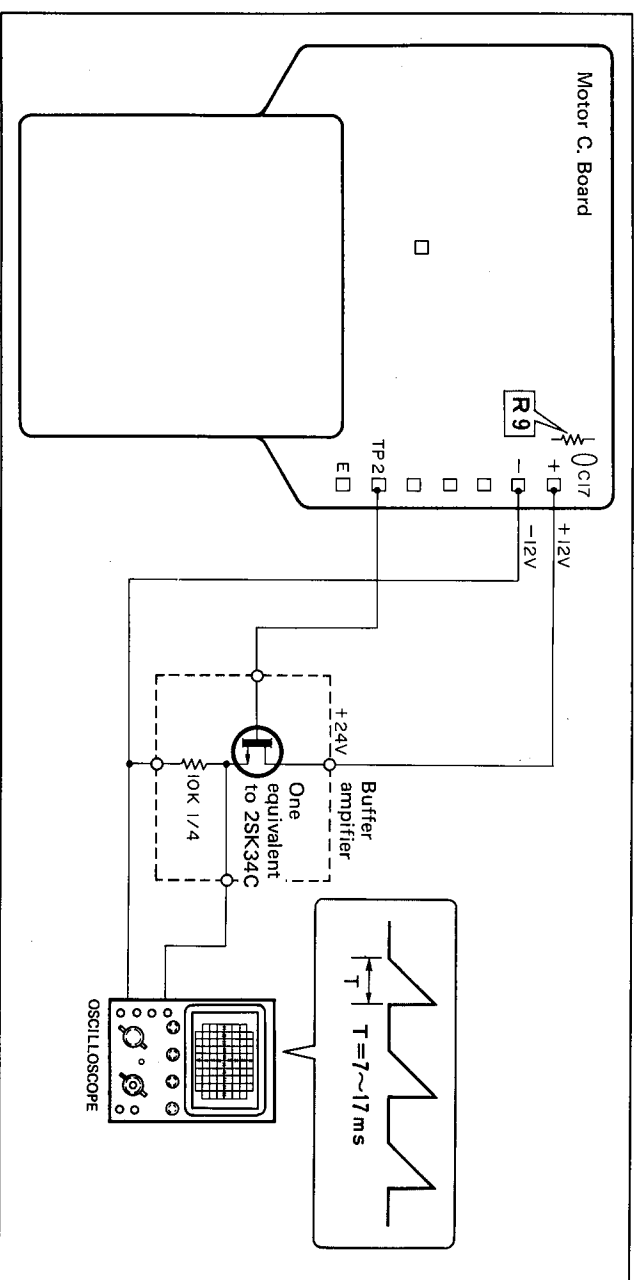
- a) Adjust VR2 located on the control c. board 1, so that the voltage at TP2 will be 0 ± 0.1 V.
- b) After letting the cartridge trace the 3 mm Pitch RETERN groove an Side 2 of the NEC Test Record ES-1008, with the speed set to 33rpm. Adjust VR3 for an average voltage of 7V at TP2.



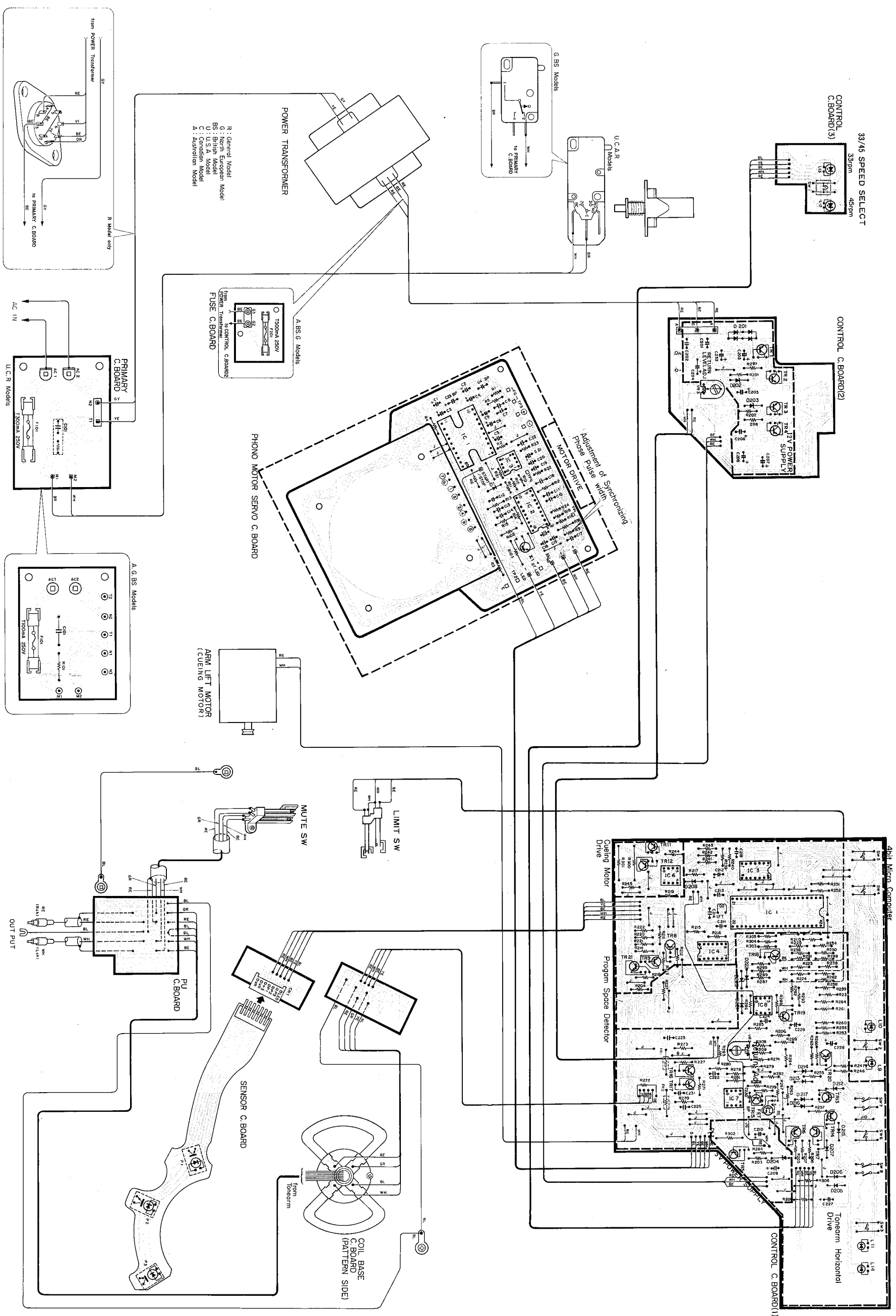
Motor C. Board Adjustment

1. Adjustment of Synchronizing Phase Pulse Width
 - a) Observe the wave form of TP2, as shown in the drawing, by way of the buffer amplifier circuit.
 - b) When the speed selector switch is set to 33-1/3 rpm, "T" of the sawtooth wave form observed

- on the oscilloscope should be within $7 \sim 17$ ms.
- c) If "T" fails to come within the values specified above, use an R9 whose resistance is within $5.1k \text{ ohms} \sim 11k \text{ ohms}$.



■ WIRING DIAGRAM



PARTS LIST

P-850

**QUARTZ D.D
ELECTRONIC FULL AUTO**

■ CONTENTS

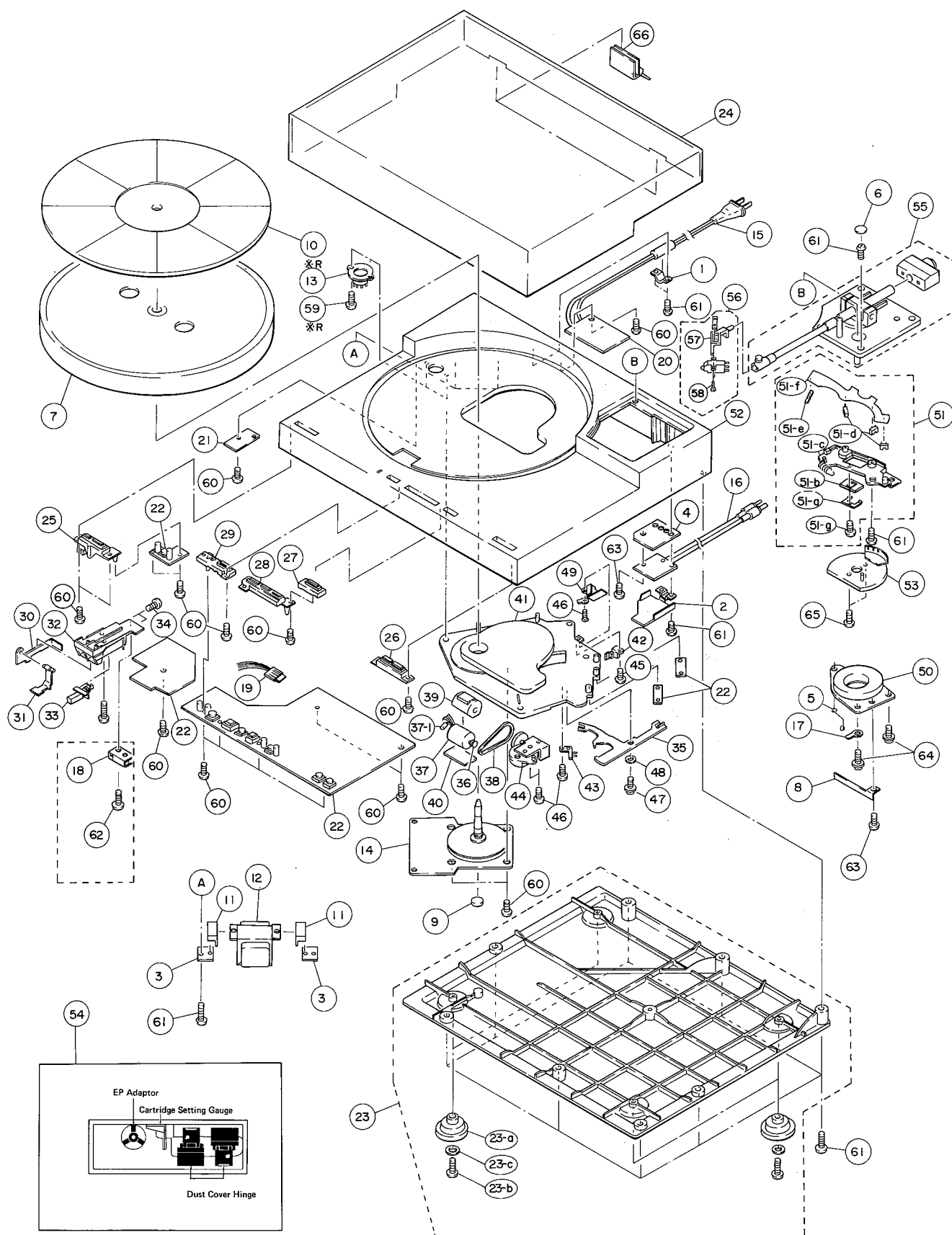
■ EXPLODED VIEW (Allover)	1
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■ PARTS LIST (Tonearm Unit)	5
■ PARTS LIST (Circuit Board)	
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Primary Circuit Board	9
D. D Motor Circuit Board	10

The symbol in Markets is abbreviation shown for distination.

U	U.S.A model
C	Canadian model
R	General model
A	Australian model
B	British model
G	North European model
J	Japan model



P-850 ■ EXPLODED VIEW (All over)



Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
※	1	AA:06:42:40	Cord Stopper	コードストッパー		
※	2	AA:60:68:40	Shield Cover	シールドカバー		
※	3	AA:60:28:90	Mounting Plate(Transformer)	トランス取付金具		
※	4	AA:60:68:30	P U Base	P U ベース		
※	5	AA:60:77:70	Hook B. Lead Wire	リード線ワッタB		
※	6	BA:07:87:70	Screw Cover	スクリユーカバー		
※	7	BA:07:77:90	Turntable	ターンテーブル		
※	8	BB:06:93:40	Spring, Spindle Holder	回転軸押えバネ		
※	9	CB:60:48:40	Cushion Rubber for Motor	モータークッションゴム		
※	10	CB:60:51:50	Turntable Sheet	ターンテーブルシート		R,A,G,C,B
※	11	CB:60:01:80	"	"	U	
※	12	GA:64:37:00	Cushion Rubber for Transformer	トランスクッションゴム		
※	13	GA:64:38:00	Power Transformer	電源トランス	J	
※	14	GA:64:39:00	"	"	U,C	
※	15	GA:64:41:00	"	"	A,B	
※	16	GA:64:40:00	"	"	G	
※	17	GA:64:40:00	Voltage Selector	電圧切換器	R	
※	18	LB:20:14:80	Direct Drive Motor	DDモーター	R	
※	19	JC:00:06:90	MC-944CH	電源コード	J	
※	20	MG:00:04:10	Power Cord	電源コード		
※	21	MG:00:08:40	"	"	R,U,C	
※	22	MG:00:09:20	"	"	A	
※	23	MG:00:09:50	"	"	G	
※	24	MG:00:10:00	"	"	B	
※	25	Ml:07:41:60	P U Cord Ass'y	P U コード Ass'y		R,A,G,C,B
※	26	Ml:07:42:30	"	"	U	
※	27	LA:00:02:80	Lug Terminal	テースラタ		
※	28	KA:60:04:90	Micro Switch	マイクロスイッチ	G,B	
※	29	KA:60:05:00	"	"	R,U,A,C	
※	30	LB:50:02:40	Connector	2.5ピッチハウジング		
※	31	NA:07:62:40	Primary Circuit Board	1次シート	J	
※	32	NA:07:68:60	"	"	R	
※	33	NA:07:68:70	"	"	U	
※	34	NA:07:68:80	"	"	A,G	
※	35	NA:07:68:90	"	"	C	
※	36	NA:07:69:00	"	"	B	
※	37	NA:07:74:30	Secondary Circuit Board	2次ヒューズシート	G,B	
※	38	NA:07:69:10	Control Circuit Board	コントロールシート		
※	39	NB:09:61:60	Bottom Cover Ass'y	底板 Ass'y	R,G,A,C,B	
※	40	NB:09:61:70	"	"	U	
※	41	PB:06:15:90	Insulator Ass'y	インシュレーター Ass'y	R,G,A,C,B	
※	42	PB:06:16:00	"	"	U	
※	43	EK:09:50:40	Bind Head Tap-tyeScrew	バインドタッピングタイトネジ		
※	44	EV:20:03:00	Plain Washer	平座金		
※	45	NB:09:61:80	Top Cover Ass'y	上蓋 Ass'y		
※	46	NB:09:99:40	Speed Switch Ass'y	スピードスイッチ Ass'y		
※	47	NB:60:31:90	"	"		
※	48	NB:60:32:00	Control Switch Ass'y	コントロールスイッチ Ass'y		
※	49	NB:60:32:10	Size Switch Ass'y	サイズスイッチ Ass'y		
※	50	NB:09:99:70	Arm Switch Ass'y	アームスイッチ Ass'y		

※：New Part (新部品)

Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
※	28	NB:60:32:20	Arm Switch Ass'y	(Black model)		アームスイッチ Ass'y
※	29	NB:09:99:80	Repeat Switch Ass'y			リピートスイッチ Ass'y
※	30	NB:60:32:30	"	(Black model)		"
※	31	AA:60:58:00	Power Switch Rod			パワースイッチロッド
※	32	CB:09:52:90	Lever			レバー
※	33	KA:80:24:80	Power Switch			ベース
※	34	EA:03:00:60	Push Switch	SUE 12		パワースイッチ
※	35	AA:60:60:50	Cueing Arm	M3×6(ZMC2-Y)		プッシュスイッチ
※	36	CB:60:27:70	Pulley B			⊕ナベハネジ
※	37	JC:00:07:00	Cueing Motor			キューイングアーム
※	38	CB:60:30:40	Belt			プーリー-B
※	39	CB:60:27:80	Cover for Motor			キューイングモーター
※	40	CB:60:27:90	Motor Base			BPコソ
※	41	CB:60:28:10	Motor Sheet			フライワベルト
※	42	KA:00:00:80	Mute Switch	(Black model)		モーターカバー
※	43	KA:00:00:90	Limit Switch			モーターベース
※	44	NB:60:08:50	Warm Wheel Ass'y			モーターシート
※	45	EN:02:00:20	Pan Head Tapping Screw(Type II)	M3×8(B-type		"
※	46	EN:03:00:20	Bind Head Tapping Screw	M3×8(")		ミューズスイッチ
※	47	EU:03:00:80	BW Head Tapping Screw	M3×8(")		リミットスイッチ
※	48	EV:90:01:50	Washer	STW-FT60 t=0.5mm		ウォームホイール Ass'y
※	49	AA:60:80:80	Shield Cover B			ナベタッピンナジ
※	50	NB:60:00:10	Magnet Base Ass'y			バインドタッピンナジ
※	51	NB:60:31:20	Sensor Base Ass'y B			平座金付
※	51-a	BB:06:93:60	Stopper, Sensor			ボリスライフトワッシャー
※	51-d	CB:60:27:20	Sensor, Holder			シールドカバー-B
※	51-c	CB:60:27:30	Sensor Cum			マグネットベース Ass'y
※	51-d i	K:00:02:50	Opto Isolator			センサベースB Ass'y
※	51-e	LB:60:17:80	Connector (mail)	3094-07A		センサベースB Ass'y
※	51-f	LC:71:96:00	Sensor Base Circuit Board			センサベースB Ass'y
※	51-g	EN:01:00:10	Pan Head Tapping Screw (Type II)	M2.6×6(ZMC2-Y)		センサベースB Ass'y
※	52	NK:06:02:00	Panel			センサベースB Ass'y
※	53	NK:06:02:10	"			センサベースB Ass'y
※	54	NK:06:02:30	"	(Black model)		センサベースB Ass'y
※	55	PB:06:19:40	Coil Base Ass'y			センサベースB Ass'y
※	56	NB:09:61:50	Accessories for P-850			センサベースB Ass'y
※	57	SS:06:02:90	Tonearm Unit YA-34			センサベースB Ass'y
※	58	SS:06:03:00	" YA-35	(Black model)		センサベースB Ass'y
※	59	PB:06:16:10	Cartridge with Head Shell			センサベースB Ass'y
※	60	PB:06:16:40	Head Shell			センサベースB Ass'y
※	61	EN:03:00:60	Screw for Cartridge Stopper Ass'y			センサベースB Ass'y
※	62	EN:03:00:50	Bind Head Tapping Screw (Type II)	3×8(ZMC2-Y)B-type		センサベースB Ass'y
※	63	EN:03:01:00	"	3×10(") "		センサベースB Ass'y
※	64	EN:03:01:10	"	3×12(") "		センサベースB Ass'y
※	65	EN:03:01:20	"	3×16(") "		センサベースB Ass'y
※	66	ED:03:00:60	Bind Head Screw	3×6(") "		センサベースB Ass'y
※	67	EI:03:01:20	Bind Head Tapping Screw	M3×6(ZMC2-Y)		センサベースB Ass'y
※	68	PB:06:15:80	Hinge, Dust Cover Ass'y	3×12(") "		センサベースB Ass'y

※：New Part (新部品)

Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
※	NA:07:69:10	Control Circuit Board	コントロールシート			
R201 ~203	HJ 35:61:80	Carbon Resistor	1.8KΩ RD25,SM-8	カーボン抵抗		
R204	HJ 35:74:70	"	47KΩ "	"		
R205	HJ 35:72:70	"	27KΩ "	"		
R206	HJ 35:61:00	"	1KΩ "	"		
R207	HJ 35:74:70	"	47KΩ "	"		
R208	HJ 35:72:70	"	27KΩ "	"		
R209	HJ 35:61:80	"	1.8KΩ "	"		
R210	HJ 35:72:20	"	22KΩ "	"		
R211 R212	HJ 35:71:50	"	15KΩ "	"		
R213	HJ 35:74:70	"	47KΩ "	"		
R214	HJ 35:72:70	"	27KΩ "	"		
R215	HJ 35:82:20	"	220KΩ "	"		
R216	HJ 35:81:00	"	100KΩ "	"		
R217	HJ 35:81:20	"	120KΩ "	"		
R218	HJ 35:71:00	"	10KΩ "	"		
R219	HJ 35:55:60	"	560Ω "	"		
R220 ~222	HJ 35:66:80	"	6.8KΩ "	"		
R223 ~225	HJ 35:72:20	"	22KΩ "	"		
R227	HJ 35:52:70	"	270Ω "	"		
R231	HJ 35:74:70	Carbon Resistor	47KΩ RD25,SM-8	カーボン抵抗		
R234 ~236	HJ 35:74:70	Carbon Resistor	47KΩ RD25,SM-8	カーボン抵抗		
R237 R238	HJ 35:64:70	"	4.7KΩ "	"		
R239 R240	HJ 35:71:00	"	10KΩ "	"		
R241 R242	HJ 35:81:00	"	100KΩ "	"		
R243	HJ 35:75:60	"	56KΩ "	"		
R244	HJ 35:61:20	"	1.2KΩ "	"		
R245	HJ 35:75:60	"	56KΩ "	"		
R246 R247	HJ 35:53:30	"	330Ω "	"		
R249 ~258	HJ 35:72:20	"	22KΩ "	"		
R259	HJ 35:63:30	"	3.3KΩ "	"		
R260	HJ 35:72:20	"	22KΩ "	"		
R261	HJ 35:62:20	"	2.2KΩ "	"		
R262	HJ 35:81:50	"	150KΩ "	"		
R263	HJ 35:71:00	"	10KΩ "	"		
R264	HJ 35:66:80	"	6.8KΩ "	"		
R265	HJ 35:71:50	"	15KΩ "	"		
R266	HJ 35:64:70	"	4.7KΩ "	"		
R267	HJ 35:83:90	"	390KΩ "	"		
R268	HJ 35:71:00	"	10KΩ "	"		
R269	HJ 35:74:70	"	47KΩ "	"		
R270	HJ 35:62:70	"	2.7KΩ "	"		
R271	HJ 35:61:20	"	1.2KΩ "	"		
R272	HK 15:32:70	"	2.7Ω "	"		
R273 R274	HJ 35:71:00	"	10KΩ "	"		

※ : New Part (新部品)

Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
R277	HJ 35 61 80	Carbon Resistor	1.8KΩ RD25, SM-8	カーボン抵抗		
R278	HJ 35 81 00	"	100KΩ "	"		
R279	HJ 35 61 80	"	1.8KΩ "	"		
R280	HJ 35 82 20	"	220KΩ "	"		
R281 R282	HJ 35 74 70	"	47KΩ "	"		
R283	HJ 35 71 20	"	12KΩ "	"		
R284	HJ 35 54 70	"	470Ω "	"		
R285	HJ 35 88 20	"	820KΩ "	"		
R286	HJ 35 73 30	"	33KΩ "	"		
R287 R288	HJ 35 71 00	"	10KΩ "	"		
R289 R290	HJ 35 74 70	"	47KΩ "	"		
R291	HJ 35 72 20	"	22KΩ "	"		
R292 -293	HJ 35 74 70	"	47KΩ "	"		
R294	HJ 35 73 30	"	33KΩ "	"		
R297 R298	HJ 35 61 00	"	1KΩ "	"		
R299	HJ 35 81 00	"	100KΩ "	"		
R300 R301	HL 72 43 30	Metal Oxide Film Resistor	2P 33Ω	酸化皮膜抵抗		
※ R302	HL 31 42 70	"	1P 27Ω	"		
R303	HJ 35 64 70	Carbon Resistor	4.7KΩ RD25, SM-8	カーボン抵抗		
R304 R305	HJ 35 72 20	"	22KΩ "	"		
R306	HJ 35 61 00	"	1KΩ "	"		
R308 R309	HJ 35 53 30	"	330Ω "	"		
FR1 FR2	HW 89 34 70	Fuse Resistor	4.7Ω 230mA	ヒューズ抵抗		
C201 C202	FG 24 41 00	Ceramic Capacitor	0.01μF 50V F(Z)	セラコン		
C203	UW 84 84 70	Electrolytic Capacitor	470μF 25V	ケミコン		
C204	UW 84 91 00	"	1000μF 25V	"		
C205 C206	UW 83 81 00	"	100μF 16V	"		
C207 C208	UW 83 84 70	"	470μF "	"		
C209	UW 83 81 00	"	100μF "	"		
C210	UW 83 81 00	"	100μF "	"		
※ C211	FA 85 34 70	Mylar Capacitor	0.0047μF 50V	マイラーコン		
C212	UW 84 71 00	Electrolytic Capacitor	10μF 25V	ケミコン		
C213 C214	FG 21 21 00	Ceramic Capacitor	100PE 50V SL(K)	セラコン		
C218	FA 85 51 00	Mylar Capacitor	0.1μF 50V	マイラーコン		
C222	FA 85 46 80	Mylar Capacitor	0.068μF 50V	マイラーコン		
C224	UA 55 53 30	"	0.33μF 50V	"		
C225 -226	FA 85 51 00	Mylar Capacitor	0.1μF 50V	マイラーコン		
C227	UW 83 81 00	Electrolytic Capacitor	100μF 16V	ケミコン		
C228	UW 83 73 30	"	33μF 16V	"		
C229	UW 84 64 70	"	4.7μF 25V	"		
C230	UK 34 61 00	"	1μF 25V	BPコン	NP-type	
C231	FA 85 43 30	Mylar Capacitor	0.033μF 50V	マイラーコン		
C233	UW 84 84 70	Electrolytic Capacitor	470μF 25V	ケミコン		
D201	i H 00 09 70	Bridge Diode	1S2371A	ブリッジダイオード		

※ : New Part (新部品)

Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
D202 D203	i F:00:03:50	Zener Diode	WZ130	ツェナーダイオード		
D204	i F:00:03:20	"	WZ061	"		
D205 ~208	i F:00:00:40	Diode	IS1555	ダイオード	} Inter-changeable (併用)	
"	i F:00:06:70	"	IS2473	"		
D221 ~217	i F:00:00:40	"	IS1555	"	}	
"	i F:00:06:70	"	IS2473	"		
D219 ~222	i F:00:00:40	"	IS1555	"	}	
"	i F:00:06:70	"	IS2473	"		
D223	i F:00:08:60	Zener Diode	WZ056	ツェナーダイオード		
TR1	i C:23:20:10	Transistor	2SC2320(E,F)	トランジスタ		
TR2	i D:06:69:00	"	2SD669(C,D)	"		
TR3	i A:09:99:10	"	2SA999(E,F)	"		
TR4	i B:06:49:00	"	2SB649(C,D)	"		
TR5	i D:06:69:00	"	2SD669(C,D)	"		
TR6	i A:09:99:10	"	2SA999(E,F)	"		
TR7	i C:23:20:10	"	2SC2320(E,F)	"		
TR8	i A:09:99:10	"	2SA999(E,F)	"		
TR9	i C:23:20:10	"	2SC2320(E,F)	"		
TR11	i D:06:67:00	"	2SD667(C,D)	"		
TR12	i B:06:47:30	"	2SB647(C,D)	"		
TR13 ~15	i C:23:20:10	"	2SC2320(E,F)	"		
TR16	i D:06:67:00	"	2SD667(C,D)	"		
TR17	i B:06:47:30	"	2SB647(C,D)	"		
TR18	i C:23:20:10	"	2SC2320(E,F)	"		
TR19	i A:09:99:10	"	2SA999(E,F)	"		
TR20 TR21	i C:23:20:10	"	2SC2320(E,F)	"		
FET1	i E:00:00:10	FET	2SK30A-Y	FET		
※ IC1	i G:04:81:00	IC	TLCS-43 1 chip	IC (マイコン)		
※ IC3	i G:04:60:00	"	HD7407	ドライバーIC	Driver	
IC4	i G:00:17:20	"	TC4069UBP	インバータIC	inverter	
IC6 ~IC8	i G:00:13:90	"	NJM4558DV	デュアルオペアンプIC		
L9 ~L14	i F:00:24:20	LED (Red)	SLR-54URC 5φ (Red)	LED (アカ)		
	CB:60:14:70	Holder, LED		LEDホルダー		
※ SW1 ~SW6	KA:90:16:60	Switch, Tact type	KHC10902	タクトSW		
※	CB:60:33:60	Cushion for Switch		スイッチクッション		
※ SW7 SW8	KA:90:15:70	Tact Switch	KHF10902	ダブルアクションタクトSW	two action	
※ SW9	KA:40:03:20	Slide Switch		スライドスイッチ		
VR2	HT:77:00:60	Semi Variable Resistor	B10KΩ	半固定 VR		
VR3	HT:77:01:00	"	B200KΩ	"		
IFT1	GE:10:04:70	AM IF Coil		AM IF コイル		
CN1	LB:60:25:50	Miniature Connectcon Housing	7P P=2.5	コネクトコンハウジング		
CN2	LB:50:02:70	Base Pin	5P P=2.5	2.5ピッチベースピン		
P1	LA:00:25:90	Wrapping Terminal i-type	3P P=10	I型ラッピング端子板		
P2	LA:00:24:80	" U-type	2P P=10	U型ラッピング端子板		

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Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
	JC:00:06:90	D.D Motor Ass'y		DD モーター Ass'y		
R1	HJ:35:34:70	Carbon Resistor	4.7 Ω RD25, SM-8	カーボン抵抗		
R2	HJ:35:62:70	"	2.7K Ω "	"		
R3	HJ:35:52:70	"	270 Ω "	"		
R4	HJ:35:52:70	"	270 Ω "	"		
R5	HU:45:62:20	Metal Film Resistor	2.2K Ω RE50	金属被膜抵抗		
R6	HU:07:72:70	"	27K Ω RE35	"		
R9	HJ:35:68:20	Carbon Resistor	8.2K Ω RD25, SM-8	カーボン抵抗		
R10	HJ:35:82:20	"	220K Ω "	"		
R11	HJ:35:82:20	"	220K Ω "	"		
R12	HU:07:71:50	Metal Film Resistor	15K Ω	金属被膜抵抗		
R13	HJ:35:61:00	Carbon Resistor	1K Ω RD25, SM-8	カーボン抵抗		
R14	HJ:35:83:90	"	390K Ω "	"		
R15	HJ:35:51:00	"	100 Ω "	"		
R16	HJ:35:71:80	"	18K Ω "	"		
R17	HJ:35:82:20	"	220K Ω "	"		
R18	HJ:35:72:20	"	22K Ω "	"		
R21	HJ:35:91:00	Carbon Resistor	1M Ω RD25, SM-8	カーボン抵抗		
R22	HJ:35:91:00	Carbon Resistor	1M Ω RD25, SM-8	カーボン抵抗		
R23	HJ:35:54:70	"	470 Ω "	"		
R24	HJ:35:91:50	"	1.5M Ω "	"		
R36	HJ:35:61:00	"	1K Ω "	"		
R102	HJ:35:74:70	Carbon Resistor	47K Ω RD25, SM-8	カーボン抵抗		
R103	HJ:35:62:20	"	2.2K Ω "	"		
C1	UW:85:71:00	Electrolytic Capacitor	10 μ F 35V	ケミコン		
C4	UW:85:71:00	Electrolytic Capacitor	10 μ F 35V	ケミコン		
C5	UW:85:72:20	"	22 μ F 35V	"		
C6	UW:85:71:00	"	10 μ F 35V	"		
C7	FA:15:44:70	Mylar Capacitor	0.047 μ F	マイラーコン		
C8	FA:15:44:70	Mylar Capacitor	0.047 μ F	マイラーコン		
C9	UW:84:74:70	Electrolytic Capacitor	47 μ F 25V	ケミコン		
C10	FA:15:44:70	Mylar Capacitor	0.047 μ F 50V	マイラーコン		
C11	FA:15:41:00	"	0.01 μ F "	"		
C12	FA:15:41:00	"	0.01 μ F "	"		
C13	FA:15:44:70	"	0.047 μ F "	"		
C14	FA:15:42:20	"	0.022 μ F "	"		
C15	FG:11:13:30	Ceramic Capacitor	33PF "	セラコン		
C16	FG:11:13:30	Ceramic Capacitor	33PF "	セラコン		
C17	FA:15:42:20	Mylar Capacitor	0.022 μ F "	マイラーコン		
C18	FA:15:51:00	"	0.1 μ F "	"		
C19	FA:15:31:00	"	0.001 μ F 50V	"		
C20	FG:11:13:30	Ceramic Capacitor	33PF "	セラコン		
C21	UW:85:72:20	Electrolytic Capacitor	22 μ F 35V	ケミコン		
C22	FA:15:42:20	Mylar Capacitor	0.022 μ F 50V	マイラーコン		
C23	UW:84:73:30	Electrolytic Capacitor	33 μ F 25V	ケミコン		
C24	UW:84:73:30	Electrolytic Capacitor	33 μ F 25V	ケミコン		
IC1	IG:99:02:00	IC	VC5021	IC		
IC2	IG:99:02:10	"	VC4046	"		
IC3	IG:00:13:90	"	NJM4558D-V	"		

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