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Service Manual

Turntable System

SL-J110R

DC Servo
Automatic Turntable System



Color

(K).....Black Type

Area

Color	Areas
(K)	(E) Continental Europe
(K)	(EK) United Kingdom.
(K)	(XL) Australia.
(K)	(EG) ... F.R. Germany.
(K)	(EB) Belgium.
(K)	(EH) Holland.
(K)	(EF) France.
(K)	(Ei) Italy.
(K)	(XA) Asia, Latin America, Middle East, Africa and Oceania.

SPECIFICATIONS

■ TURNTABLE SECTION

Type: Automatic turntable
Drive method: Belt drive
Motor: DC motor
Drive control method: DC servo control
Turntable platter: Aluminum die-cast
 Diameter 300 mm (12")
Turntable speeds: 33-1/3 rpm and 45 rpm
Wow and flutter: 0.045% WRMS $\pm 0.06\%$ weighted zero to peak (IEC 98A weighted)
Rumble: 70 dB DIN-B (IEC 98A weighted)

■ TONEARM SECTION

Type: Static-balanced, straight tonearm
 Plug-in-connector cartridge system
Overhang: 25 mm (1")
Effective length: 200 mm (7-7/8")
Tracking error angle: Within 3°18' at inner groove of 30 cm (12") disc
 Within 0°36' at outer groove of 30 cm (12") disc
Applicable cartridge weight: 6 g

■ CARTRIDGE SECTION

Type: Moving magnet stereo cartridge
Magnet circuit: All laminated core
Frequency response: 10 Hz—30 kHz
Output voltage: 2.5 mV at 1 kHz, 5 cm/s. zero to peak lateral velocity
 (7 mV at 1 kHz, 10 cm/s. zero to peak, 45° velocity DIN 45 500)

Channel separation: 22 dB at 1 kHz
Channel balance: Within 2 dB at 1 kHz
Recommended load impedance: 47 k Ω —100 k Ω
Compliance (dynamic): 12 $\times 10^{-6}$ cm/dyne (100 Hz)
Stylus pressure range: 1.25 $\pm$ 0.25 g
Weight: 6 g (cartridge only)
Replacement stylus: EPS-24CS

■ GENERAL

Power supply: For Continental Europe: AC-220V, 50/60 Hz
 For United Kingdom and Australia: AC 240V, 50/60Hz
 For others: AC 110~127V/220~240V, 50/60Hz
Power consumption: 3 W
Dimensions (W×H×D): 360×83×320 mm (14-1/4"×3-1/4"×12-1/2")
 When dust cover is open. 360×350×320 mm (14-1/4"×13-25/32"×12-1/2")
Weight: 2.5 kg (5.6 lb)

Specifications are subject to change without notice for further improvement.
 Weight and dimensions shown are approximate.

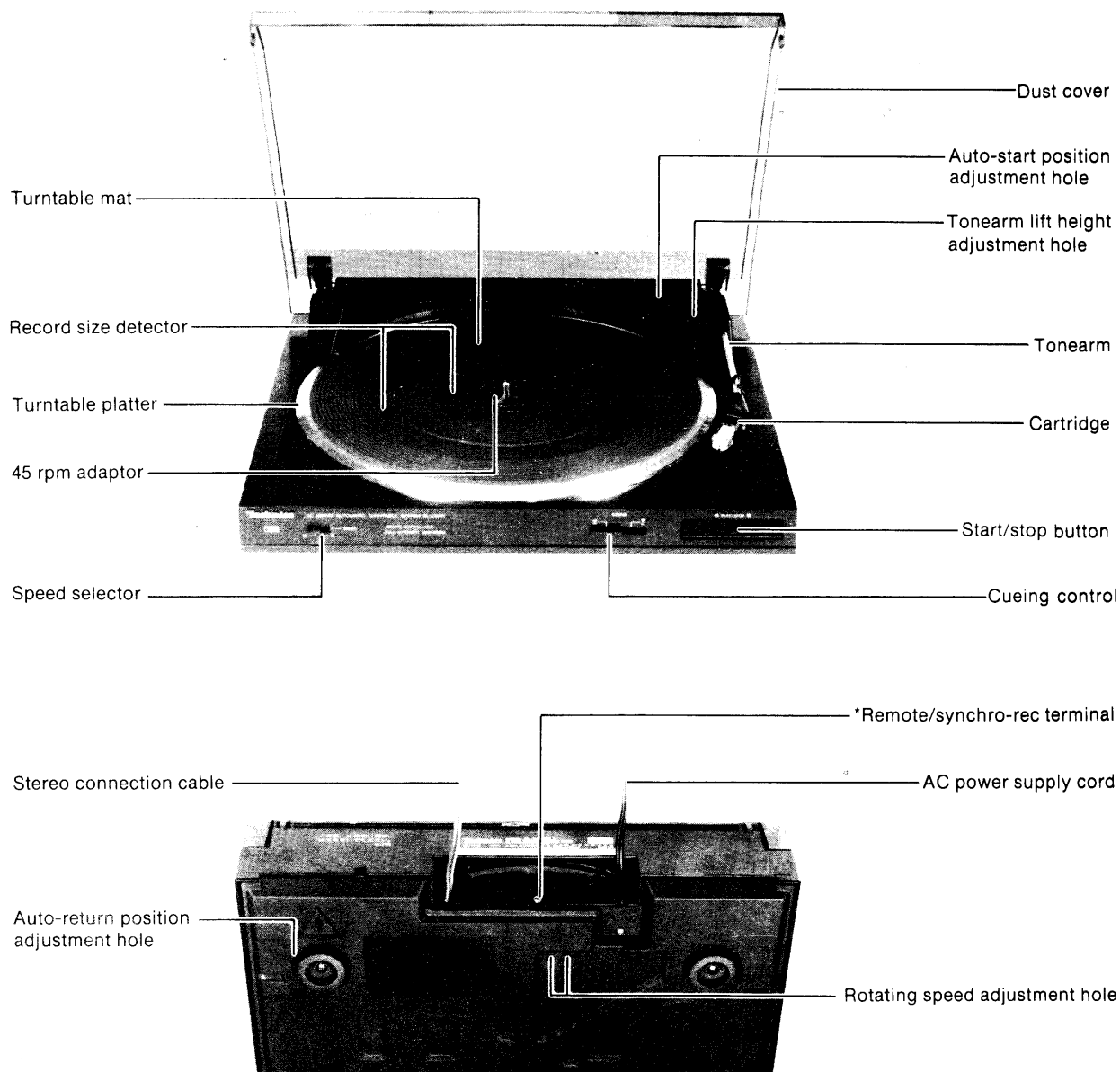
Technics

Matsushita Electric Industrial Co., Ltd.
 Central P.O. Box 288, Osaka 530-91, Japan

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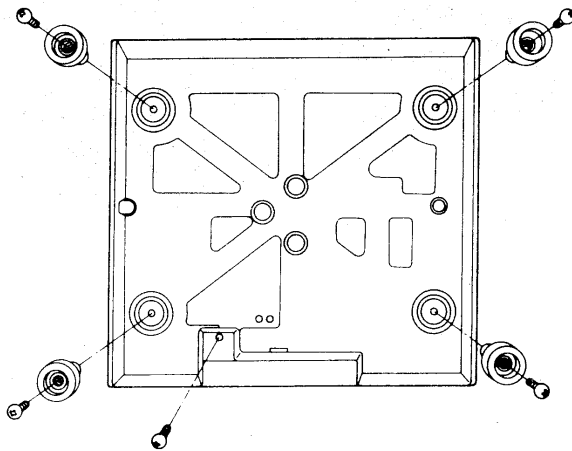
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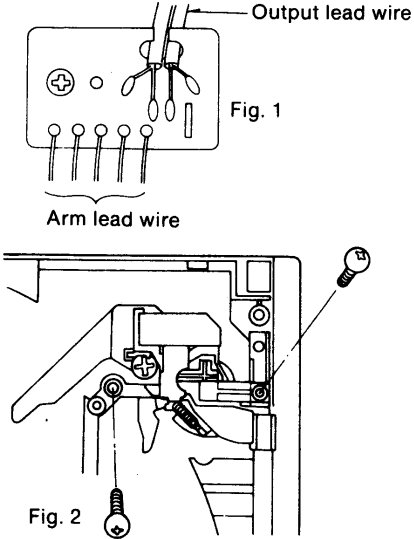
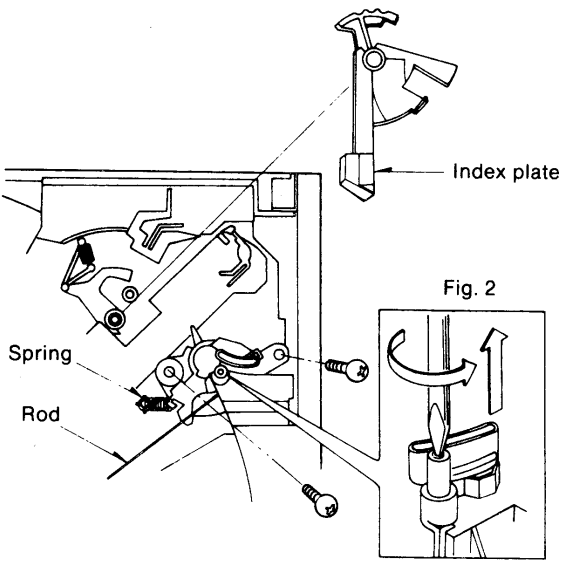
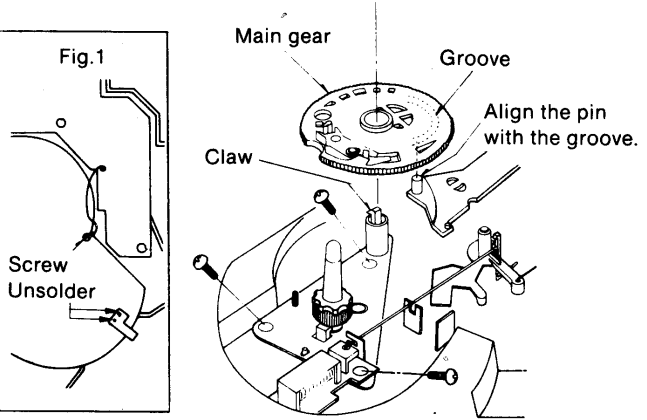
■ LOCATION OF CONTROLS



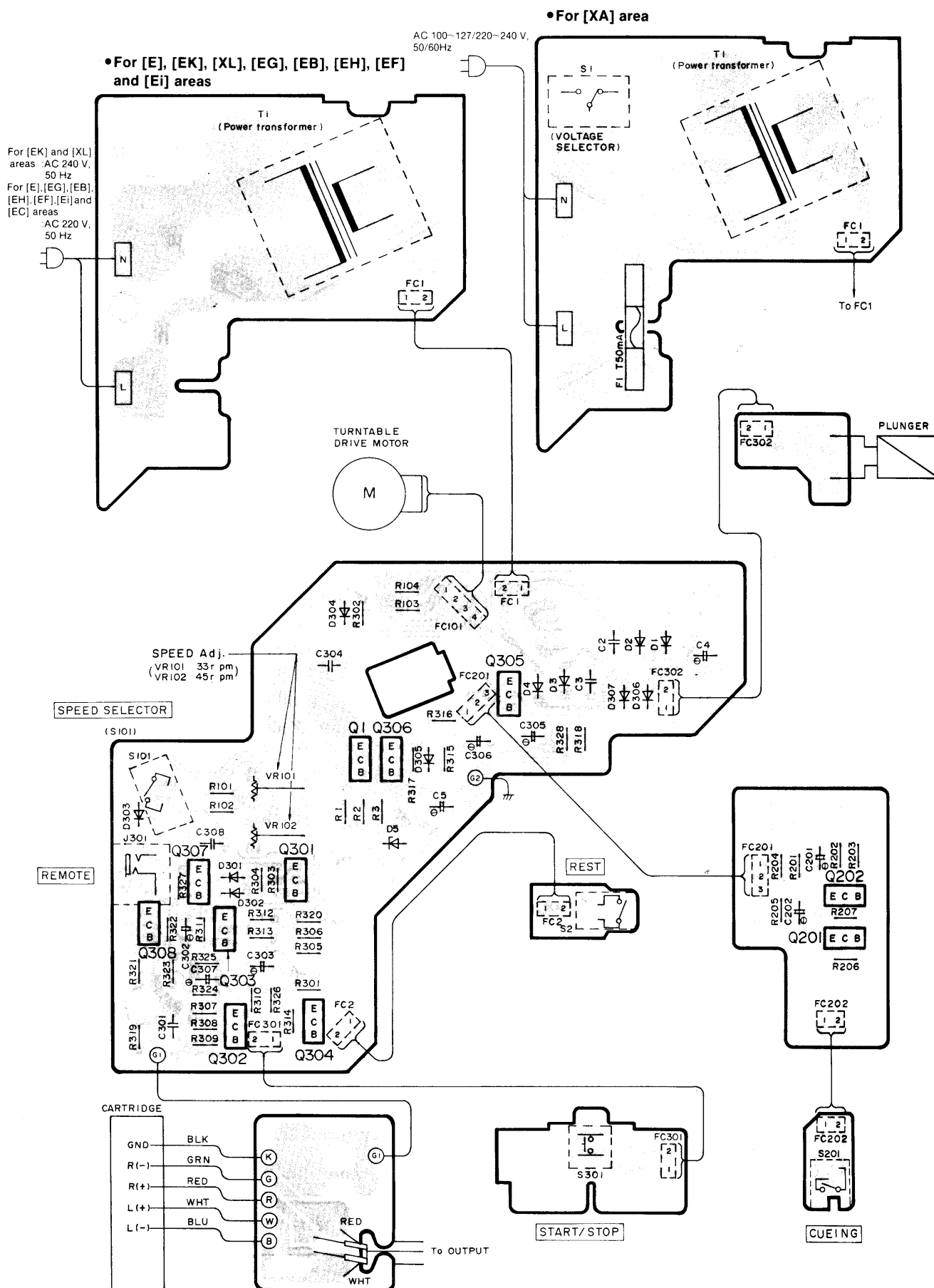
*Remote/synchro-rec terminal Synchro recording is possible if a Technics amplifier with "SYNCHRO-REC" or "CONTROL" terminal is connected. Also remote control operation is possible if the amplifier has the remote control functions. (Refer to the operating instructions of the amplifier and tape deck.)

DISASSEMBLY INSTRUCTIONS

Ref. No. 1	How to remove the upper side parts	Ref. No. 2	How to remove the bottom board
Procedure 1	Claw Dust cover Hinge Fig. 1 Claw Claw Claw Fig. 2 ① To remove the dust cover 1. Open the dust cover. 2. Hold the hinge shown in Fig. 1 and lift the dust cover. ② To remove the turntable platter 1. Open the dust cover. 2. Remove the turntable mat. 3. Remove the turntable drive belt and lift the turntable platter. ③ To remove the 45 rpm adaptor 1. Remove the turntable platter. 2. Turn the 45 rpm adaptor counter-clockwise. 3. Release the 3 claws. ④ To remove the tonearm cover 1. Remove the dust cover and turntable platter. 2. Remove the 2 screws shown in Fig. 2. 3. Lift the tonearm cover. ⑤ To remove the record size detector 1. Remove the turntable platter. 2. Release the 2 claws. ⑥ To remove the cartridge • Remove the cartridge setscrew and pull out the cartridge. 1. Remove the turntable platter. 2. Clamp the tonearm. 3. Turn over the unit on a soft cloth. 4. Remove the 5 screws. 		
Ref. No. 3	How to remove the lower side parts		
Procedure 2 + 3	Output P.C.B. 2 3 4 1 5 6 7 8 9 Claws Claws Start/stop button 7 Cueing switch knob 6 Speed selector knob 6 Start/stop switch P.C.B. 8 Plunger P.C.B. 9 Rest switch P.C.B. 9 Synchro-rec P.C.B. 9 Cueing switch 9 Main circuit board 9 Claws 9 To remove the main P.C.B. 1. Set the speed selector to 33 rpm. 2. Remove the 2 screws (2 , 5). To remove the output P.C.B. • Remove the screw 1. To remove the plunger P.C.B. • Unsolder the terminals. To remove the rest and cueing switch P.C.B. 1. Release the 2 claws on both sides. 2. Pull out the rest switch P.C.B. To remove the synchro-rec P.C.B. • Remove the screws 9. To remove the start/stop switch P.C.B. • Remove the screw 8. To remove the power transformer • Remove the 2 screws (3 , 4), and lift the power transformer. To remove the turntable drive motor 1. Unsolder the 4 lead wires. 2. Lift the turntable drive motor. To remove the speed selector knob 1. Remove the screw 6. 2. Remove the rod. To remove the cueing switch knob 1. Remove the screw 7. 2. Remove the rod. To remove the start/stop button • Remove the screw 8.		

Ref. No. 4	How to remove the tonearm unit	 Output lead wire Fig. 1 Arm lead wire Fig. 2
Procedure 2 → 4	1. Unsolder the 5 arm leads from the output P.C.B. (Fig. 1) 2. Turn over the unit (top side up), and then remove the dust cover and the tonearm cover. 3. Remove the 2 screws shown in Fig. 2. 4. Release the tonearm clamper and move the tonearm toward the center. 5. Lift the tonearm unit.	
Ref. No. 5	How to remove the cueing selector	 Index plate Fig. 2 Spring Rod
Procedure 4 → 5	1. Remove the spring. 2. Pull out the rod from the cueing unit. 3. Remove the index plate. 4. Remove the 2 screws. 5. Lift the cueing unit. * The liftarm can be replaced without removing the cueing unit in the procedure shown in Fig. 2.	
Ref. No. 6	How to remove the center spindle	 Fig. 1 Screw Unsolder Fig. 2 Main gear Groove Align the pin with the groove. Claw
Procedure 2 → 6	1. Remove the ground lead screw. (Fig. 1) 2. Unsolder the 2 terminals of the plunger. (Fig. 1) 3. Turn over the unit (top side up). 4. Release the claw and lift the main gear. 5. Remove the 3 screws.	

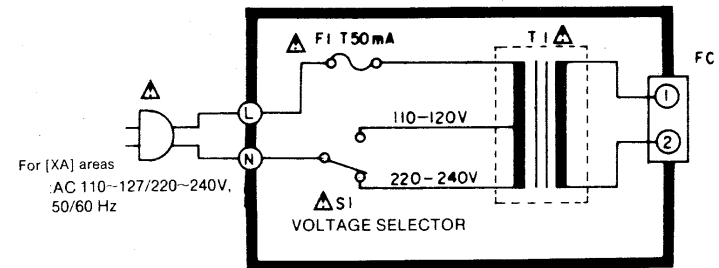
■ CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



SCHEMATIC DIAGRAM

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

POWER SOURCE CIRCUIT FOR [XA] AREA

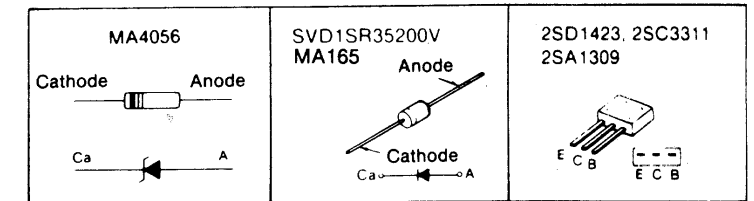


Notes:

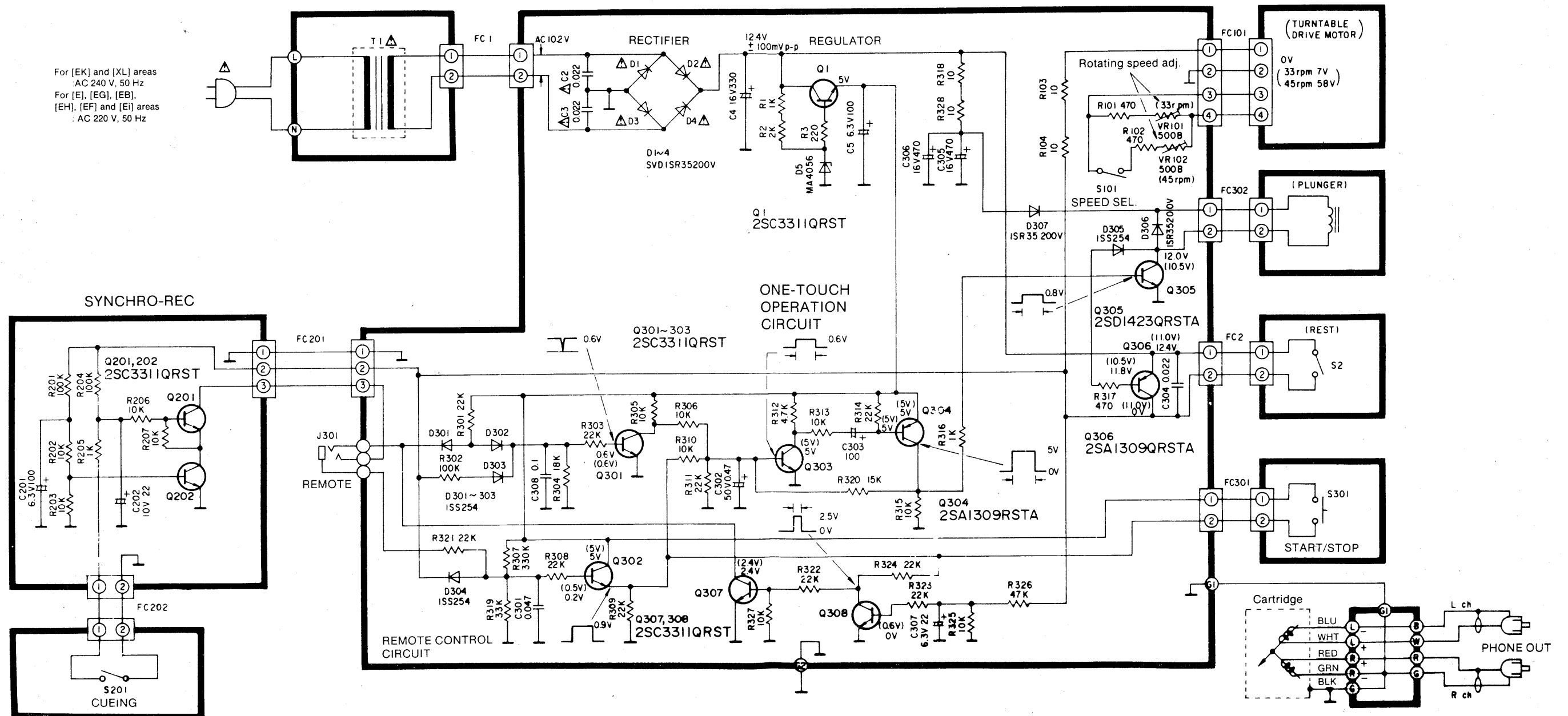
1. **S1** : Voltage selector for [XA] area.
2. **S2** : Rest (Power) switch in "OFF" position.
3. **S101** : Speed select switch in "30" position.
4. **S201** : Cueing switch
5. **S301** : Start/stop switch.
6. The values are of the reference voltage of the unit in stop motion measured by a DC voltmeter (high impedance) on the basis of chassis. So some error might be

included depending on the internal impedance of the measuring instrument and the unit measured.
★ (): Voltage in 33 rpm.
7. Waveforms appears when start/stop signals are input.
8. 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.

Terminal guide of transistors and diode



For [EK] and [XL] areas
AC 240 V, 50 Hz
For [E], [EG], [EB],
[EH], [EF] and [E] areas
AC 220 V, 50 Hz



REPLACEMENT PARTS LIST

Notes : * 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.

* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)

Parts without these indications can be used for all areas.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
TRANSISTORS			D306 Δ	SVD1SR35200A	RECTIFIER
Q1	2SC3311A-Q	TRANSISTOR	D307 Δ	SVD1SR35200A	RECTIFIER
Q201	2SC3311A-Q	TRANSISTOR	VARIABLE RESISTORS		
Q202	2SC3311A-Q	TRANSISTOR	VR101	EVN61AA00B52	V.R. SPEED SEL (33 rpm)
Q301	2SC3311A-Q	TRANSISTOR	VR102	EVN61AA00B52	V.R. SPEED SEL (45 rpm)
Q302	2SC3311A-Q	TRANSISTOR	COILS AND TRANSFORMERS		
Q303	2SC3311A-Q	TRANSISTOR	T1 Δ	SLTB35F33K	POWER TRANSFORMER
Q304	2SA1309Q	TRANSISTOR	(E, K, XL)		
Q305	2SD1423Q.RS	TRANSISTOR	T1 Δ	SLTB35F34K	POWER TRANSFORMER
Q306	2SA1309Q	TRANSISTOR	(E, EG, EB, EF)		
Q307	2SC3311A-Q	TRANSISTOR	(EH, EI)		
Q308	2SC3311A-Q	TRANSISTOR	T1 Δ	SLTB35F35K	POWER TRANSFORMER
DIODES			(XA)		
D1 Δ	SVD1SR35200A	RECTIFIER	FUSES		
D2 Δ	SVD1SR35200A	RECTIFIER	F1 Δ	XBA2C005TB0	250V, T50mA
D3 Δ	SVD1SR35200A	RECTIFIER	(XA)		
D4 Δ	SVD1SR35200A	RECTIFIER	SWITCHES		
D5	MA4056-M	DIODE	S1	SFDSH-XW02067	SW. VOLTAGE SELECT
D301	MA165	DIODE	(XA)		
D302	MA165	DIODE	S2 Δ	SSPB4-1	SW. POWER
D303	MA165	DIODE	S101	SSPB3	SW. SPEED SELECT
D304	MA165	DIODE	S201	SSPB3	SW. CUEING
D305	MA165	DIODE	S301	EVQQS205K	SW. START/STOP

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
CABINET AND CHASSIS			26 Δ	SJA138-3	POWER CORD
1	SGDB90E	DUST COVER	(E, EG, EB, EF)		
1-1	SHGB5	CUSHION RUBBER	(EH, EI)		
3	SFTGN05N01E	TURNABLE MAT	26 Δ	SJA189	POWER CORD
4	SD0B3-1	TURNABLE	(EK)		
5	SJY90080-1	BELT	27	SJPB6	OUTPUT CORD
6	SFUMN05N04E2	SIZE DETECTING PLATE	28	SJJ130-3	JACK
7	SFWEN05N01	45RPM ADAPTOR	30	SMILJ100R-KN	DRIVE MOTOR
8	SFQAN05N01	SPRING	31	SHGB1-1	MOTOR COVER
9	SBHB4E	HINGE	32	RFP14Z	PLUNGER ASS'Y
10	SBHB5E	HINGE	32-1	1UE0005ZAH	PLUNGER
11	SKMLJ110R-KE	CABINET	32-2	SHRLJ100R-KN	PLUNGER CAP
(E)			33	SMC85	SHIELD COVER
11	SKMLJ110RKEB	CABINET	34	SUSB56	SPRING
(EB, EH, EF)			35	SHRB115	PLASTIC SPACER
(EI)			37	SUWB32	BRACKET
11	SKMLJ110RKEG	CABINET	40	SUWB26E	SPINDLE BASE
(EG)			40-1	SDWB1A	CENTER SPINDLE
11	SKMLJ110RKEK	CABINET	40-2	SFYB-5-32	STEEL BALL
(EK)			MECHANISM PARTS		
11	SKMLJ110RKXA	CABINET	41	SDGB10E	MAIN GEAR
(XA)			42	SFURZ15R51	DRIVE LINK
11	SKMLJ110RKXL	CABINET	43	SFURN05N52	FRICTION LINK
(XL)			44	SHRB74E	DRIVE PLATE
11-1	SGXB370-OKB	ORNAMENT	45	SHGB23	CUSHION RUBBER
11-2	SGB628-1	BADGE	46	SHRB96	DRIVE LEVER
13	SBCB280-OK	KNOB, SPEED SELECT	47	SHRB71	SWITCH LEVER
14	SBCB280-OK	KNOB, CUEING	48	SHRB76-1	INDEX PLATE
15	SBCB260-OK	BUTTON, START/STOP	49	SHRB73-1	SUB-INDEX PLATE
16	SKUB12-1	BOTTOM BOARD	50	SHRB72-1	SUB-REMOVAL PLATE
17	SFGAN05N01	INSULATOR	52	SUSB49	SPRING
18	STZB19	ROD	53	SUSB28	SPRING
19	STZB15-1	ROD, CUEING	54	SUSB31	SPRING
20	STZB16-1	ROD, SPEED SELECT	55	SFGZB63M51	CUSHION RUBBER
21	SKMB691-OK	ONEARM COVER	58	SHRB83	PLATE
22	SHRB69E-1	ONEARM REST	60	SHRLJ100R-KE	CUEING BASE
23	SKMB701	BRACKET(A)	61	SHRB108-1	CUEING CAM
24	SKMB711	BRACKET(B)	62	SHRB78	BRAKE LEVER
25	SKMB721	BRACKET(C)	63	SFUMN05N60-2	ARM LIFT
26 Δ	RJA52Y	POWER CORD	64	SUSB46-1	ROD
(XA)			65	SFXJN05N51	SHAFT
26 Δ	SJAG23	POWER CORD	66	SUSB1	SPRING
(XL)			67	SUSB47-1	SPRING
			68	SUSB48	SPRING
			69	SHGB19	RUBBER SPACER

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
TONE ARM			81	SHGB34	RUBBER
70	SFAB23A	PICKUP ARM	82	SMCB6E	SHIELD PLATE
71	SHRB80-1	HOLDER	SCREWS, WASHERS AND NUTS		
72	SHRB79	CAM	N1	XTV3+10G	SCREW
73	SFEB12	CAM	N2	XTV3+10GFZ	SCREW
74	SUSB44	SPRING	N3	XTN3+14G	TAPPING SCREW
75	SUSB54	SPRING	N4	XTV3+14G	SCREW
76	SFQHF01N06	SPRING	N5	SFUMZ15R61	WASHER
78	EPC-P24SAK	CARTRIDGE	N6	SFPEV00601	SCREW
79	EPS-24CS	STYLUS	N7	XTV3+10J	SCREW
80	SFCNC05101	COVER, STYLUS			

RESISTORS & CAPACITORS

Notes : * Important safety notice :

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* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)

Parts without these indications can be used for all areas.

Numbering System of Resistor

Example:

ERD	25	F	J	102
Type	Wattage (1/4W)	Shape	Tolerance	Value (1K Ω)
ERX	2	AN	J	471
Type	Wattage (2W)	Shape	Tolerance	Value (470 Ω)

Numbering System of Capacitor

Example:

ECKD	1H	102	Z	F
Type	Voltage (50V)	Value (0.001 μ F)	Tolerance	Peculiarity
ECEA	50	M	330	
Type	Voltage (50V)	Peculiarity	Value (33 μ F)	

● Capacity are in microfarads (μ F) unless specified otherwise, P = Pico-farads (pF) F = Farads (F).

● Resistance are in ohms (Ω), unless specified otherwise, 1K = 1,000 Ω , 1M = 1,000k Ω

Resistor Type		Wattage		Tolerance
ERD	: Carbon	10 : 1/8W	12 : 1/2W	J : $\pm 5\%$
ERG	: Metal Oxide	14 : 1/4W	25 : 1/4W	F : $\pm 1\%$
ERQ	: Fuse Type Metal	1A : 1W	18 : 1/8W	G : $\pm 2\%$
ERX	: Metal Film	S2 : 1/4W	S1 : 1/2W	J : $\pm 5\%$
ERD L	: Carbon (chip)	2F : 1/4W	50 : 1/2W	K : $\pm 10\%$
ERO K	: Metal Film (chip)	2A : 2W	3A : 3W	M : $\pm 20\%$
ERC	: Solid	6G : 1/10W	8G : 1/8W	
ERF	: Incombustible Box-Shaped			
ERM	: Wire-Wound			
RRJ	: Cip Resistor			
ERJ	: Cip Resistor			

Capacitor Type	Voltage		Tolerance
ECE : Electrolytic	0J : 6.3V	1A : 10V	K : $\pm 10\%$
ECCD : Ceramic	1C : 16V	1E : 25V	M : $\pm 20\%$
ECKD : Ceramic Capacitor	1H : 50V	1V : 35V	Z : $+ 80\%$
EQCM : Poyester	50 : 50V	05 : 50V	- 20
EQCP : Polypropylene	2H : 500V	2A : 100V	J : $\pm 5\%$
ECG : Ceramic	1 : 100V	1J : 63V	G : $\pm 2\%$
ECEA N : Non Polar Electrolytic	KC : 400V AC		F : $\pm 1\%$
QCU : Ceramic (Chip Type)	KC : 125V AC		C : $\pm 0.25\mu\text{F}$
ECUX : Ceramic (Chip Type)	(UL)		D : $\pm 0.5\mu\text{F}$
ECF : Semiconductor			
EECW : Liquid electrolyte double layer capacitor			

Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.
RESISTORS(VALUE, WATTAGE)			R305	ERDS2T J103	10K 1/4	R324	ERDS2T J223	22K 1/4
R1	ERDS2T J102	1K 1/4	R306	ERDS2T J103	10K 1/4	R325	ERDS2T J103	10K 1/4
R2	ERDS2T J102	1K 1/4	R307	ERDS2T J334	330K 1/4	R326	ERDS2T J473	47K 1/4
R3	ERDS2T J221	220 1/4	R308	ERDS2T J223	22K 1/4	R327	ERDS2T J103	10K 1/4
R101	ERDS2T J471	470 1/4	R309	ERDS2T J223	22K 1/4	R328	ERDS2T J100	10 1/4
R102	ERDS2T J471	470 1/4	R310	ERDS2T J103	10K 1/4	CAPACITORS(VALUE, VOLTAGE)		
R103	ERDS2T J100	10 1/4	R311	ERDS2T J223	22K 1/4	C2	ECKD1H223PF	0.022 50
R104	ERDS2T J100	10 1/4	R312	ERDS2T J472	4.7K 1/4	C3	ECKD1H223PF	0.022 50
R201	ERDS2T J104	100K 1/4	R313	ERDS2T J103	10K 1/4	C4	ECEA1CU331	330 16
R202	ERDS2T J103	10K 1/4	R314	ERDS2T J223	22K 1/4	C5	ECEA0JU101	100 6.3
R203	ERDS2T J153	15K 1/4	R315	ERDS2T J103	10K 1/4	C201	ECEA0JU101	100 6.3
R204	ERDS2T J104	100K 1/4	R316	ERDS2T J102	1K 1/4	C202	ECEA1AU220	22 10
R205	ERDS2T J102	1K 1/4	R317	ERDS2T J471	470 1/4	C301	ECKD1H473ZV	0.047 50
R206	ERDS2T J103	10K 1/4	R318	ERDS2T J100	10 1/4	C302	ECEA1HUR47	0.47 50
R207	ERDS2T J153	15K 1/4	R319	ERDS2T J333	33K 1/4	C303	ECEA0JU101	100 6.3
R301	ERDS2T J223	22K 1/4	R320	ERDS2T J153	15K 1/4	C304	ECKD1H223PF	0.022 50
R302	ERDS2T J104	100K 1/4	R321	ERDS2T J223	22K 1/4	C305	Δ ECEA1CU471	470 16
R303	ERDS2T J223	22K 1/4	R322	ERDS2T J223	22K 1/4	C306	Δ ECEA1CU471	470 16
R304	ERDS2T J183	18K 1/4	R323	ERDS2T J223	22K 1/4	C307	ECEA1AU220	22 10
						C308	ECFF1E104ZF	0.1 25

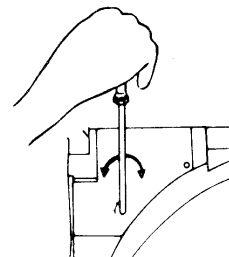
REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
PACKING MATERIAL			P11	SPSB61	PAD(DUST COVER)
P1	SPGB185	CARTON BOX	P12	SPSB58	PROTECTION SHEET
(E, EK, XL, EG)			ACCESSORIES		
(EB, EH, E1)			A1	SQXLJ100R-KE	INSTRUCTION MANUAL
(XA)			(E, EB, EH)		
P1	SBGB186	CARTON BOX	A1	SQX54662	INSTRUCTION MANUAL
(EF)			(EF, XA)		
P2	SPSB30-2	PAD(FRONT)	A1	SQX54664	INSTRUCTION MANUAL
P3	SPSB31-1	PAD(REAR)	(E1)		
P4	SFHKN05N01	CLAMPER	A1	SQX54665	INSTRUCTION MANUAL
P5	SPEB5	CLAMPER	(EK, XL)		
P6	SFHSN05N01E	SPACER, DUST COVER	A1	SQX54666	INSTRUCTION MANUAL
P7	SPHB5	PROTECTION SHEET	(EG)		
P8	XZB50X60A01	PROTECTION COVER	A2	RJP120ZBS-H	AC PLUG ADAPTOR
P9	SFYF32B35	P-BAG	(XA)		
P10	SFHDC01N01	PAD	A3	SJP225TT	CORD

MEASUREMENTS AND ADJUSTMENTS

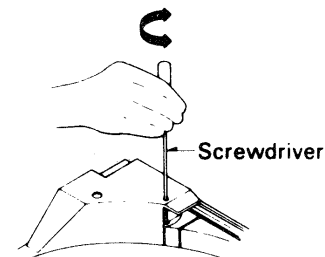
AUTO-START POSITION

1. Clamp tonearm at the rest position. Lightly tap tonearm to make sure it is securely clamped in place.
 2. Remove the dust cover.
 3. If tonearm sets down outside of record's lead-in groove, turn clockwise (IN).
If it sets down to the far inside lead-in groove, turn counterclockwise (OUT).
- Note: Do not push down very strongly on screwdriver.
4. Replace dust cover.



TONARM LIFT HEIGHT

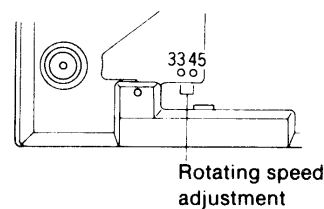
1. Remove the dust cover.
2. Secure the tonearm with arm clasper.
3. Set the cueing control switch to "▼".
4. Put a record on the turntable mat.
5. Shift the arm clasper to set the tonearm free, and adjust the gap between stylus tip and record surface to 4mm~7mm.



ROTATING SPEED

1. Set the speed selector switch to "33"
2. Raise the unit and insert a screwdriver into the adjusting hole (33-rpm) from the back to turn VR101.
3. Set the speed selector switch to "45"
4. Same as in step 2, insert a screwdriver into the adjusting hole (45-rpm) and turn VR102.

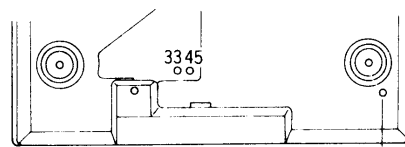
Note: The speed adjustment should be done in 33-rpm first.



Rotating speed adjustment

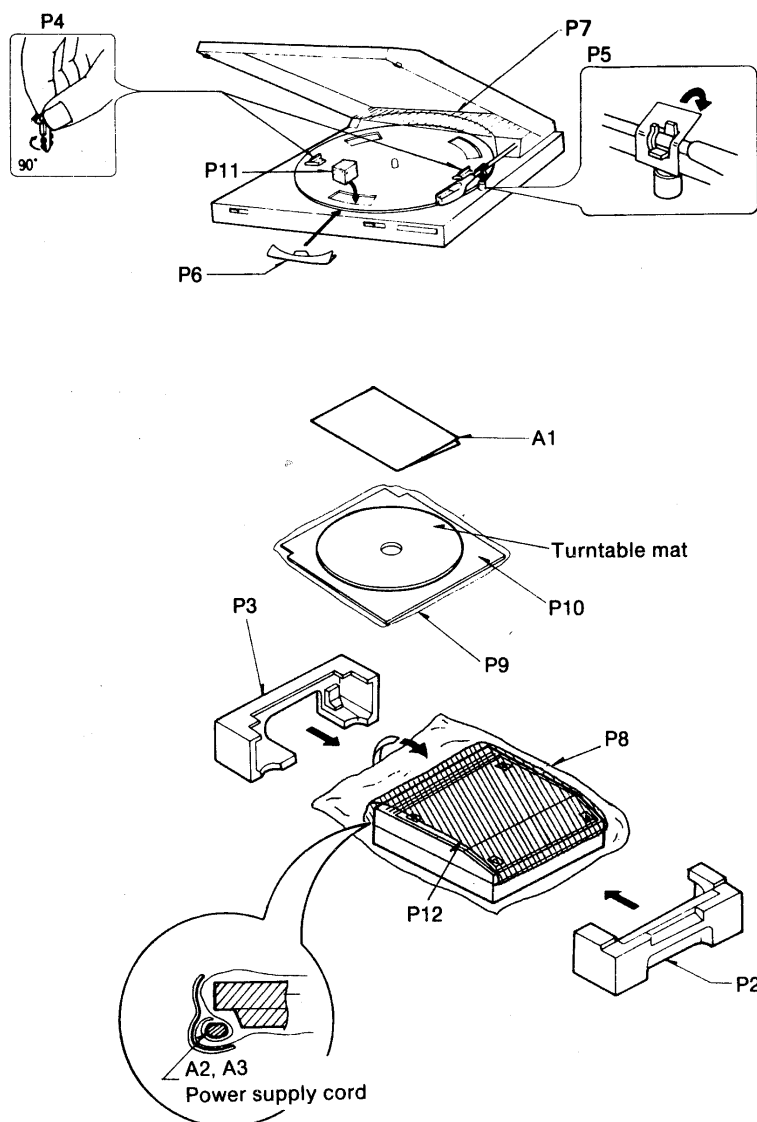
AUTO-RETURN POSITION

1. Clamp the tonearm at the rest position.
 2. Raise the unit and insert a screwdriver into the adjusting hole from the back to turn the adjustment screw.
- If the tonearm returns before the tune ends.....Turn clockwise.
- If there is no auto-return.....Turn counterclockwise.



Auto-return position adjustment

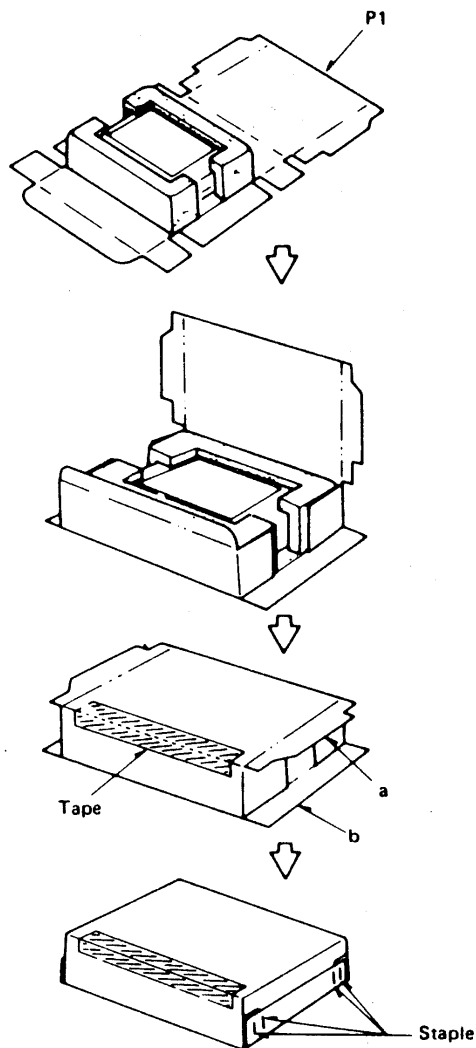
PACKING



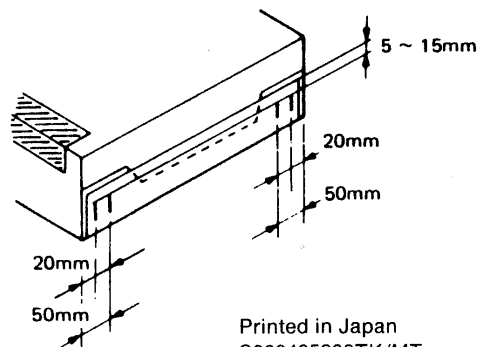
1. Place the unit (with cushions attached) as illustrated.
2. Fold the flaps according to the line marks.
3. Seal the top with adhesive tape.

*Use gum tape or adhesive cloth tape of 50mm wide at least.

4. For the edges, first fold the flap "a" and then flap "b", and staple. Remember to staple only flap "b". (Use 15 or 16mm staple)



*Stapling positions are shown below.



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