

Service Manual

Turntable System

SL-QX300/(K)

[E], [EK], [XL], [EG], [EB],
[EH], [EF], [Ei], [EC], [XA], [XM]

Areas

- * [E] is available in Switzerland and Scandinavia
- * [EK] is available in United Kingdom
- * [XL] is available in Australia
- * [EG] is available in F.R. Germany
- * [EB] is available in Belgium
- * [EH] is available in Holland
- * [EF] is available in France
- * [Ei] is available in Italy
- * [EC] is available in Czechoslovakia
- * [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America
- * [XM] is available in Central South America

TAP is the standard mark for the "P-mount" plug-in connector system. Products carrying this mark are inter-changeable and compatible with each other.

- * The colors of this model include silver and black.
- * The black type model is provided with (K) in the Service Manual.

Specifications

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

General

Power supply:	For United Kingdom and Australia: 240V, AC 50Hz For Continental Europe: 220V, AC 50Hz For Others: 110—120/220—240V, 50/60Hz
Power consumption:	7 W
Dimensions: (W×H×D)	43 × 10 × 38 cm 43 × 36 × 42 cm (Maximum height when top (dust cover) is open)
Weight:	6kg

Turntable section

Type:	Quartz direct drive
Features:	Fully automatic turntable Auto start/Auto lead-in Auto return, Auto stop Auto size select Record presence detection Repeat play, Manual play
Drive method:	Direct drive
Motor:	Brushless DC motor
Drive control method:	Quartz-phase-locked control
Turntable platter:	Aluminum die-cast Diameter 31.2 cm (12-9/32 inches)
Turntable speeds:	33-1/3 rpm and 45 rpm

Pitch control:	±6% adjustment range
Wow and flutter:	0.012% WRMS* 0.025% WRMS (JIS C5521) ±0.035% peak (IEC 98A Weighted)
* This rating refers to turntable assembly alone, excluding effects of record, cartridge or tonearm but including platter. Measured by obtaining signal from built-in frequency generator of motor assembly.	
Rumble:	-56 dB (IEC 98A Unweighted) -80 dB (IEC 98A Weighted)

Tonearm section

Type:	Statically-balanced straight tonearm Plug-in connector cartridge system
Effective length:	230 cm (9-1/16")
Overhang:	15 mm (19/32")
Tracking error angle:	Within 2°32' at the outer groove of 30 cm (12") record Within 0°32' at the inner groove of 30 cm (12") record
Friction:	Less than 7 mg (lateral, vertical)
Effective mass:	7.5 g (without cartridge)
Stylus pressure adjustment range:	1.25 ± 0.25 g
Applicable cartridge weight range:	6 g
Phono cable capacitance:	100 pF

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

■ Cartridge section

Type: Moving magnet stereo cartridge
Magnetic circuit: All laminated core
Frequency response: 10 Hz~50 kHz
 20 Hz~10 kHz ± 1 dB
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 1.8 dB at 1 kHz
Recommended load impedance: 47 k Ω ~100 k Ω
Compliance (dynamic): 12×10^{-6} cm/dyne at 100 Hz
Stylus pressure range: 1.25 ± 0.25 g (12.5 ± 2.5 mN)
Weight: 6 g (cartridge only)
Replacement stylus: EPS-P33ES

- The power supply for this unit varies depending upon the areas. Also, the parts used for power supply are different. So, refer to the circuit diagram and the replacement parts list.
- * [EK], [XA] and [XM] areas are provided with voltage selector

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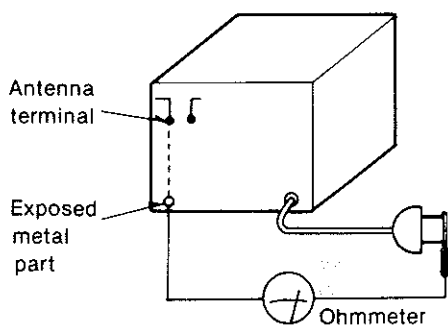
■ SAFETY PRECAUTION

- Before servicing, unplug the power cord to prevent an electric shock.
- When replacing parts, use only manufacturer's recommended components for safety.
- Check the condition of the power cord. Replace if wear or damage is evident.
- After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
- Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

● INSULATION RESISTANCE TEST

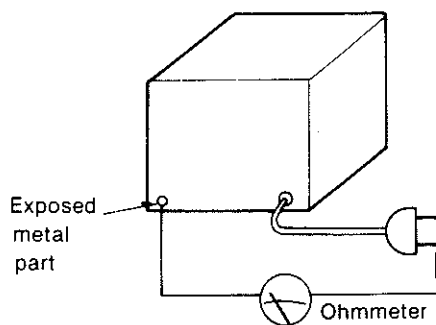
- Unplug the power cord and short the two prongs of the plug with a jumper wire.
- Turn on the power switch.
- Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3 M Ω and 5.2 M Ω to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



(Fig A)

Resistance = 3 M Ω —5.2 M Ω

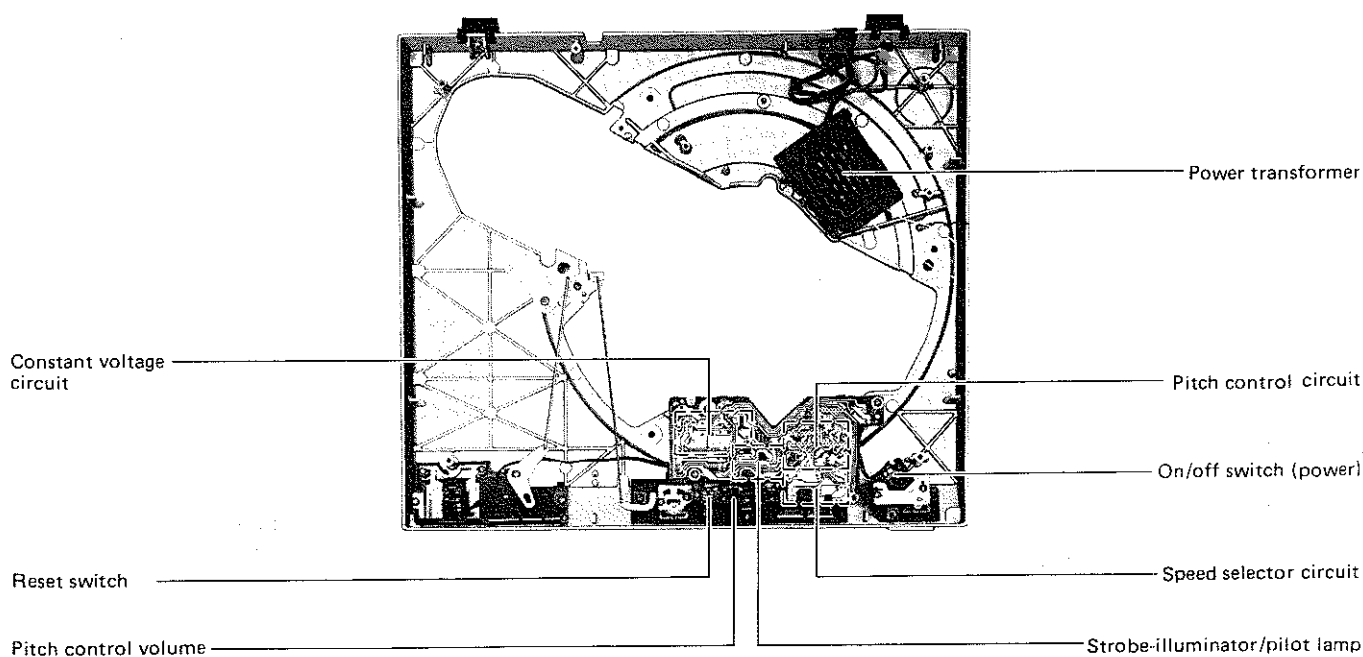
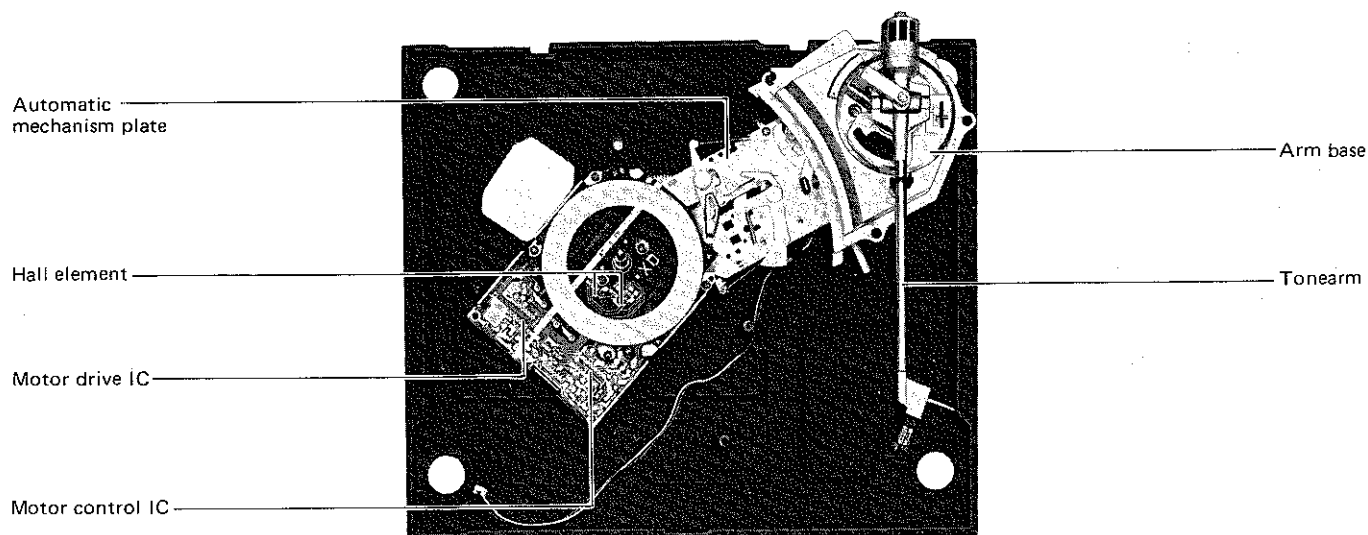
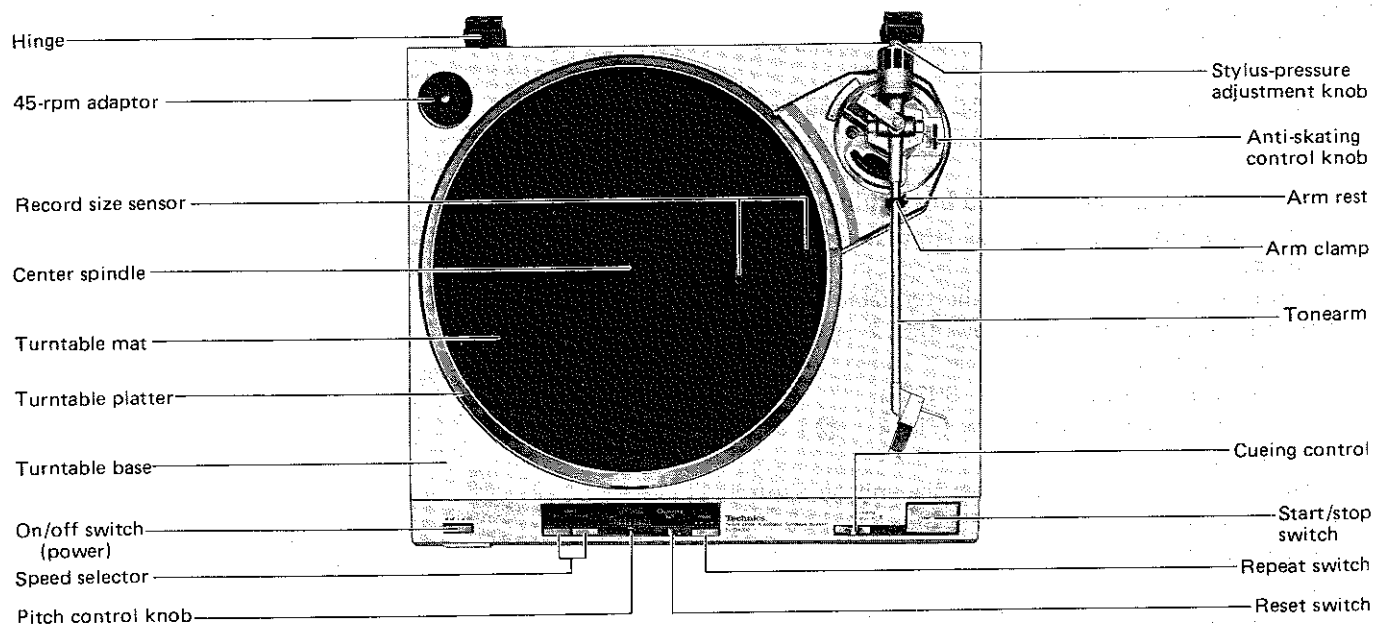


(Fig B)

Resistance = Approx. ∞

- If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

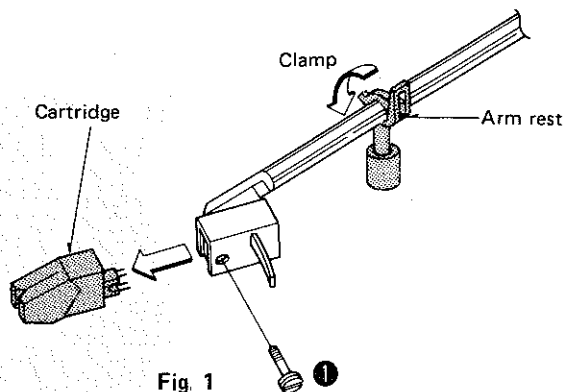
LOCATION OF CONTROLS



DISASSEMBLY INSTRUCTIONS

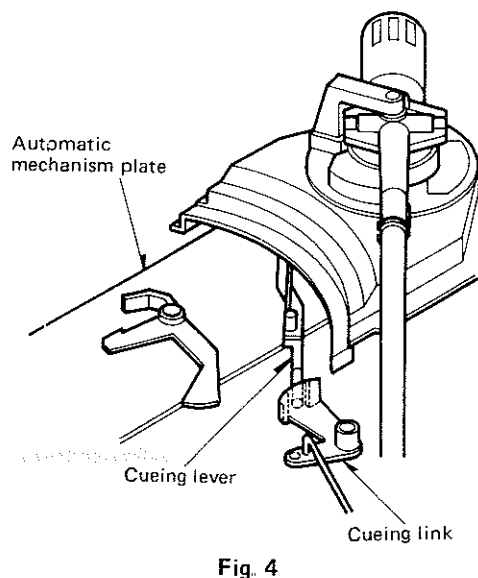
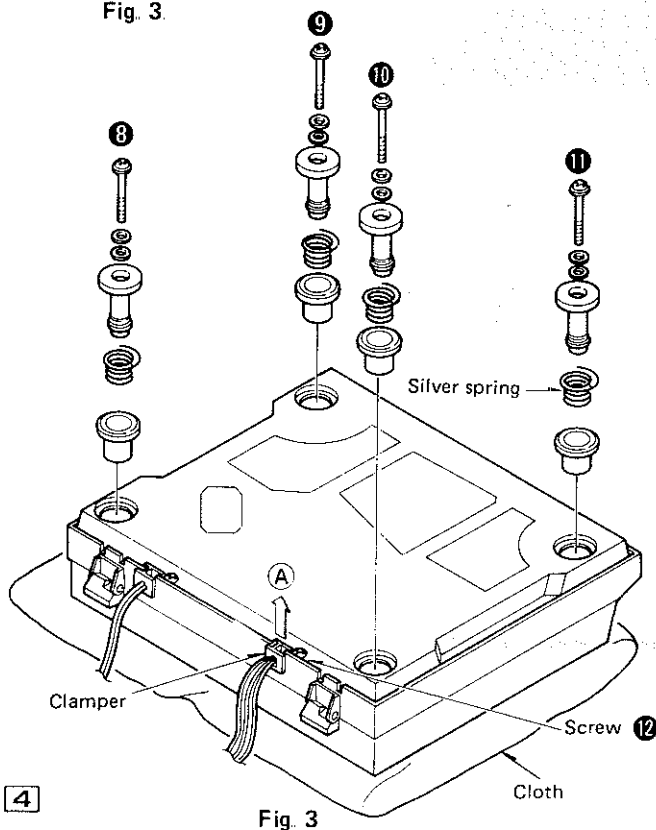
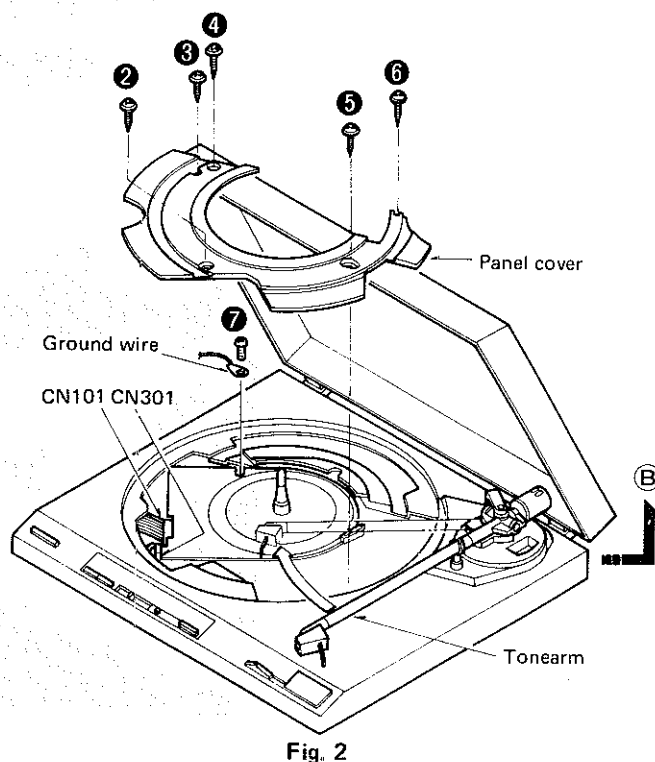
• How to remove the cartridge

1. Open the dust cover and clamp the tonearm on the arm rest.
2. Remove the cartridge setscrew (Fig. 1 : ①), and then pull out the cartridge in the direction of the arrow.



• How to remove the cabinet and bottom board

1. Remove the cartridge. (Refer to "How to remove the cartridge".)
2. Remove the turntable mat and the turntable platter.
3. Remove the 5 panel cover setscrews (Fig. 2 : ② ~ ⑥) and the panel cover.
4. Remove the 2 connectors (CN101, CN301).
5. Remove the ground wire setscrew (Fig. 2 : ⑦) and ground wire.
6. Close the dust cover, and turn over the unit on a soft cloth taking care not to damage (Fig. 3).
7. Remove the 4 audio insulator setscrews (Fig. 3 : ⑧ ~ ⑪).
8. Remove the clamber setscrew (Fig. 3 : ⑫) and slightly lift the bottom board. Then, remove the phono output clamber in the direction of the arrow (A).
9. Return the unit and remove the dust cover.
10. Remove the tonearm from the arm rest and bring the tonearm to the center spindle as shown in Fig. 2.
11. Then, lift the cabinet in the direction of the arrow (B).



• How to remove the drive circuit P.C.B. and stator frame

1. Remove the cabinet and bottom board. (Refer to "How to remove the cabinet and bottom board".)
2. Remove the 6 stator frame setscrews (Fig. 5 : ⑬ ~ ⑱), then the stator frame can be removed

• To separate the drive circuit P.C.B. and stator frame

1. Cut off the stopper by means of nippers.
2. Insert the screwdriver between stopper and P.C.B., then shift it up in the direction of arrow ② as in Fig. 6.
3. Remove the 4 setscrews (Fig. 5 : ⑲ ~ ⑳) of drive circuit P.C.B. Then the drive circuit P.C.B. can be separated from the stator frame.

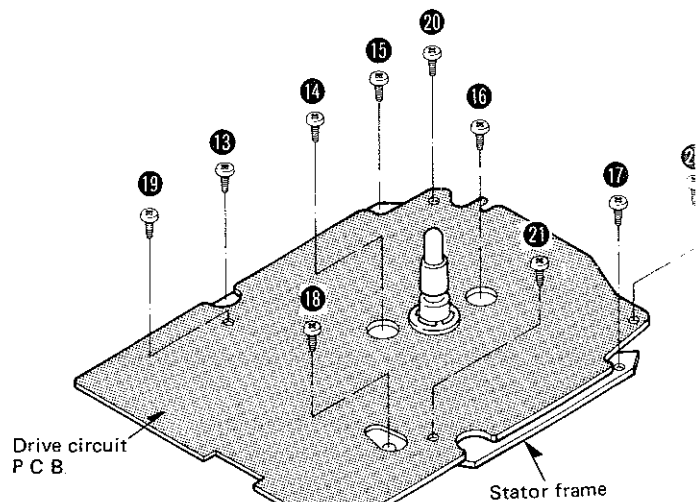


Fig. 5

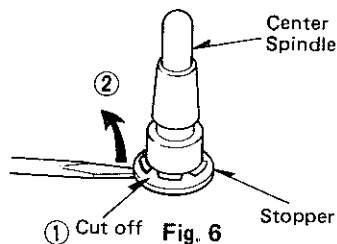


Fig. 6

• How to remove the tonearm

1. Remove the cabinet and bottom board. (Refer to "How to remove the cabinet and bottom board".)
2. Remove the 3 tonearm base setscrews (Fig. 7 : ⑳ ~ ㉔).
3. Turn over the tonearm base.
4. Remove the shield plate setscrew (Fig. 8 : ㉗) and remove the shield plate.
5. Remove the shielding tape and unsolder the 5 lead wires.
6. Remove the PU fixing plate setscrew (Fig. 8 : ㉘) and canceler spring.
7. Remove the 2 tonearm setscrews (Fig. 8 : ㉙, ㉚), then the tonearm can be removed in the direction of the arrow.

Note: When fitting the tonearm base to the automatic mechanism plate, make sure that the cueing lever is in "cueing down" position.

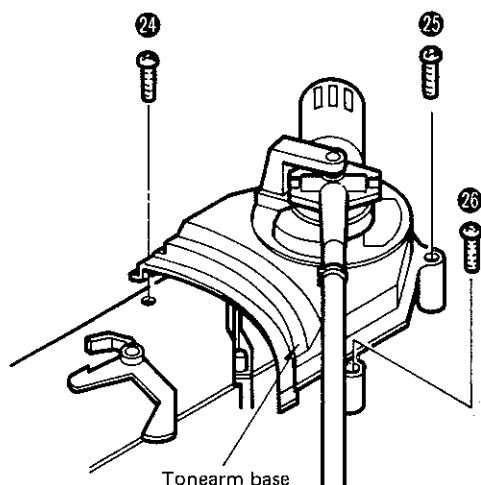


Fig. 7

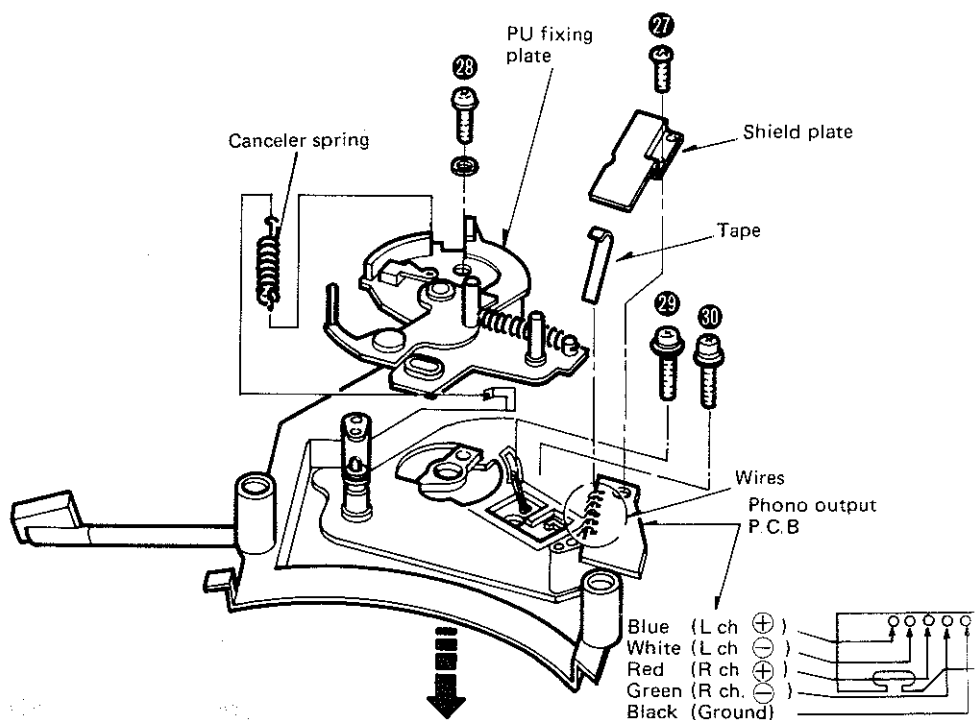


Fig. 8

• How to remove the automatic mechanism plate Ass'y

1. Remove the tonearm base. (Refer to "How to remove the tonearm".)
2. Remove the stator frame. (Refer to item 2 of "How to remove the drive circuit P.C.B. and stator frame".)
3. Remove the ground wire setscrew (Fig. 9 : 31) and the ground wire.
4. Remove the 4 automatic mechanism plate setscrews (Fig. 9 : 32 ~ 35), Then the automatic mechanism plate Ass'y can be removed.

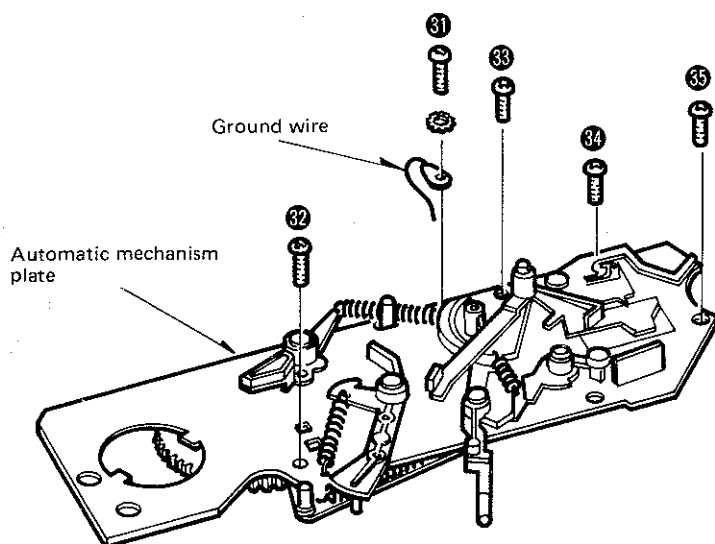


Fig. 9

• How to remove the control circuit P.C.B.

(Power source and pitch control circuit)

1. Remove the cabinet and the bottom board. (Refer to "How to remove the cabinet and bottom board".)
2. Turn over the cabinet.
3. Remove the pitch control holder setscrew (Fig. 10 : 36) and pitch control holder.
4. Remove the 6 setscrews (Fig. 10 : 37 ~ 42) of control circuit P.C.B. Then, the control circuit P.C.B. can be removed.

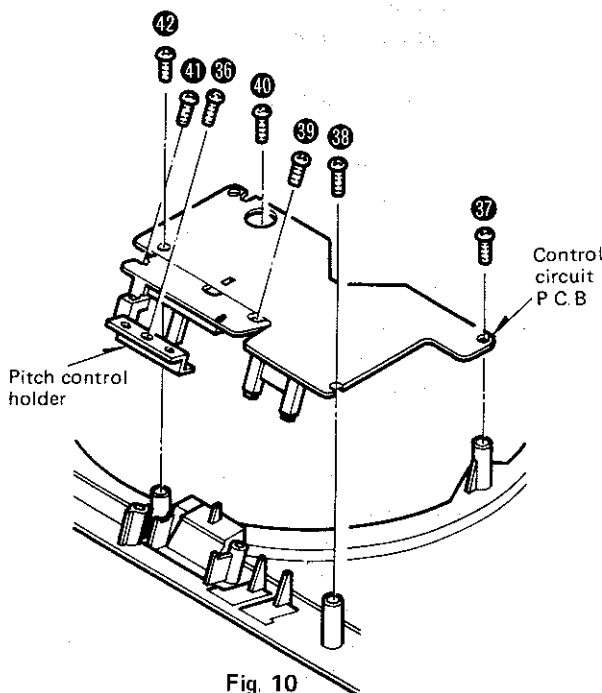


Fig. 10

• How to remove the start/stop switch P.C.B.

1. Remove the cabinet and bottom board (Refer to "How to remove the cabinet and bottom board".)
2. Push the claw in the direction of the arrow (A) (Fig. 11)
3. Remove the P.C.B. in the direction of the arrow (B) (Fig. 12)

• How to remove the on/off switch

1. Remove the cabinet and bottom board. (Refer to "How to remove the cabinet and bottom board".)
2. Remove the 2 switch holder setscrews (Fig. 12 : 43, 44), Then the on/off switch can be removed.

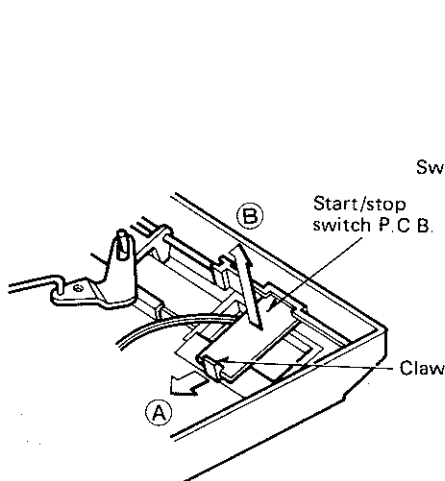


Fig. 11

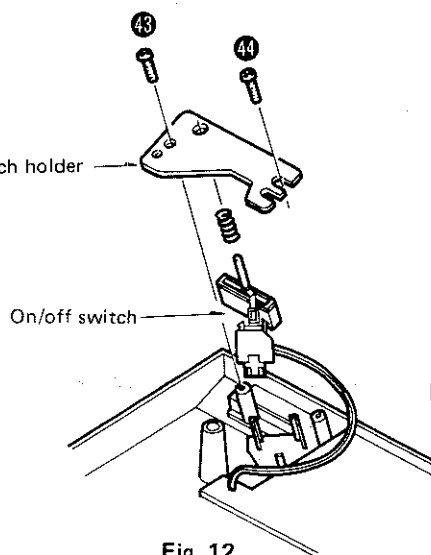


Fig. 12

• How to remove the Hall element

1. Remove the turntable platter.
2. Remove the terminal solder by use of solder sucker.
3. Hold the Hall element with a tweezers and remove it while touching the soldering iron to the terminal. (Fig. 13)

Note: Fit the Hall element with the part No. print up.
The reverse in terminal position is allowable provided that the printed side is up.

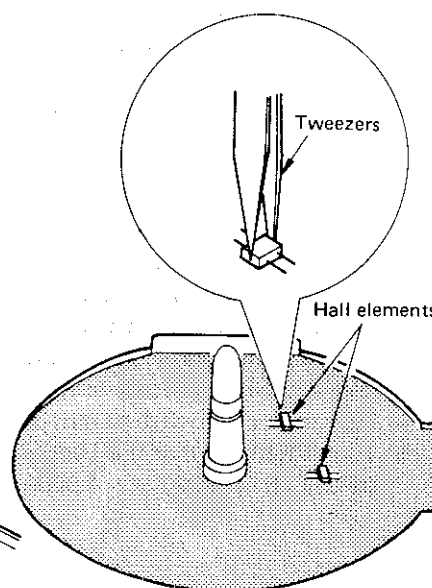


Fig. 13

MEASUREMENTS AND ADJUSTMENT

• Arm-lift height adjustment

The arm-lift height (distance between the stylus tip and the record surface when the cueing control is at the "▼" position) has been adjusted at the factory to approximately 5 to 7 mm (3/16" ~ 9/32"). (Fig. 14)

If the clearance is too narrow or too wide, turn the adjustment screw clockwise or counterclockwise. (Fig. 15)

Clockwise rotation

— distance between the record and stylus tip is decreased.

Counterclockwise rotation

— distance between the record and stylus tip is increased.

• Adjustment of automatic start position

If the stylus does not land in the lead-in groove, adjust as follows.

1. Clamp the tonearm to the arm rest.
2. Remove the rubber cap. (Fig. 16)
3. Turn the screw with a screwdriver, clockwise or counterclockwise as necessary.

If the stylus tip sets down too far in the recorded groove.

— turn counterclockwise.

If the stylus tip sets down outside of the record.

— turn clockwise.

Adjust so the stylus tip lands 1 ~ 2 mm in from the edge of the record.

• Adjustment of automatic return position (Fig. 17)

(Remove the rubber cap.)

1. Put the stylus protector on the cartridge
2. Move the tonearm toward the center of the record.

The auto-return adjustment screw will appear

If the tonearm tends to return to the arm rest before the play has finished.

— turn counterclockwise.

If the tonearm fails to return after the final groove.

— turn clockwise.

• Speed adjustment (pitch control) (Fig. 18)

New QLS (Quartz Linear Synthesizer) circuitry permits continuous analog pitch adjustment up to about $\pm 6\%$ while maintaining quartz locked accuracy. When the pitch control is at the center position, the turntable rotates at standard speed (33-1/3 or 45 rpm).

Turn off the reset switch, then adjust the pitch control as desired, referring to the scale markings.

Note: 1) Turn reset switch on to play records at standard speed.

- 2) When the reset switch is on, the turntable rotates at standard speed, so pitch is not adjustable. If the reset switch is turned on after changing the pitch, the turntable will return to standard speed.

- 3) The strobe is quartz locked with the variable pitch settings, so the strobe markings always appear to be standing still.

• Pitch control adjustment (reference frequency) (Fig. 19)

1. Remove the turntable platter and panel cover. (Refer to "How to remove the cabinet and bottom board".)
2. Set the pitch control knob to the center position.
3. Connect the oscilloscope to terminal 11 of IC302.
4. Push the on/off switch to turn it "on".
5. Turn VR301 so that the frequency of output waveform is 523.64 kHz ~ 524.68 kHz (1.9097 μ s ~ 1.9059 μ s).

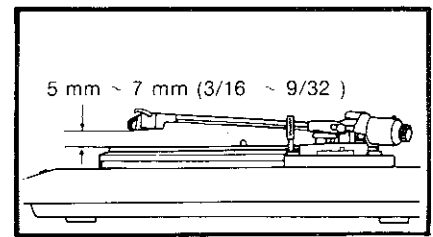


Fig. 14

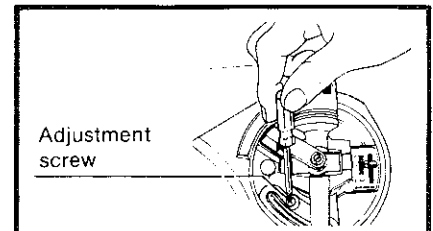


Fig. 15

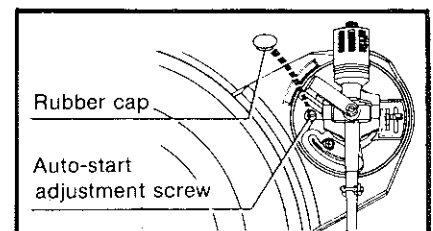


Fig. 16

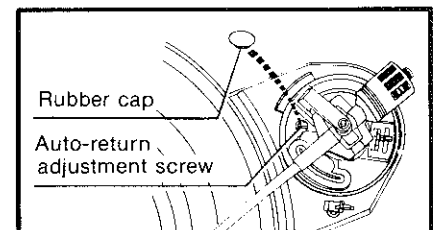


Fig. 17

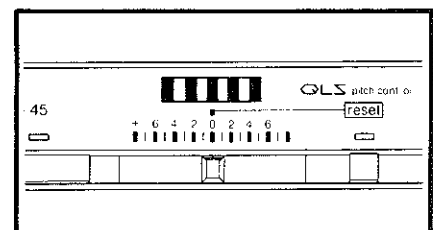


Fig. 18

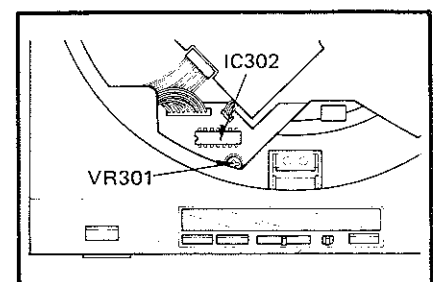


Fig. 19

■ TROUBLE SHOOTING

• Conditions of the set

Case 1: Refer to Fig. 20. (Checking each part in stop mode.)

- (1) Remove the turntable mat and turntable platter.
- (2) Remove the panel cover.
- (3) Push the on/off switch to turn it "on".

Case 2: Refer to Fig. 21. (Checking each part in operation mode.)

- (1) Remove the turntable mat and turntable platter.
- (2) Remove the panel cover.
- (3) Remove the audio insulator (front left).
- (4) Set the tester lead wire through the hold (audio insulator) in the bottom board, and connect the lead wire clip to the checking part.
- (5) Connect the ground terminal of the tester to the GND terminal of the phono cable.
- (6) Put on the turntable platter, turntable mat and record.
- (7) Push the on/off switch to turn it "on".
- (8) Push the start/stop switch.

Case 3: Refer to Fig. 22. (Checking each part in stop and operation modes.)

- (1) Remove the cabinet and bottom board.
- (2) Remove the start/stop switch P.C.B.
- (3) Remove the on/off switch.
- (4) Connect the ground of control circuit P.C.B. to the automatic mechanism plate with wire.
- (5) Push the on/off switch to turn it "on" and then check each part in stop mode.
- (6) When checking in operation mode, connect the tester lead wire to the checking part. Next, put on the turntable platter, mat and record, then push the start/stop switch.

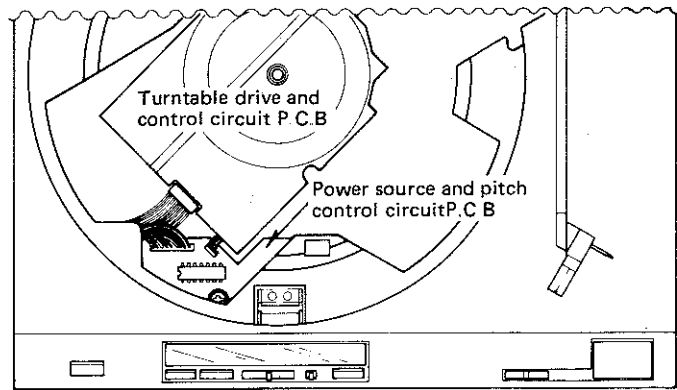


Fig. 20

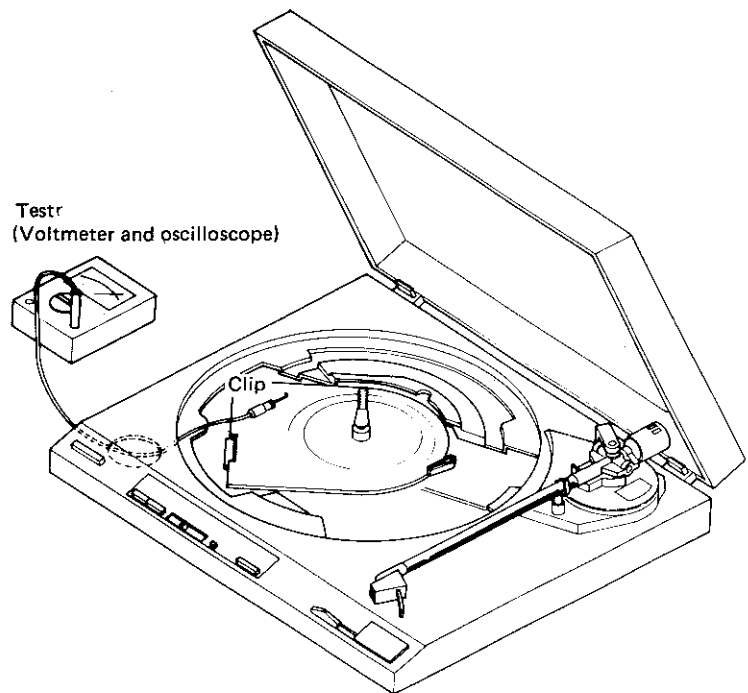


Fig. 21

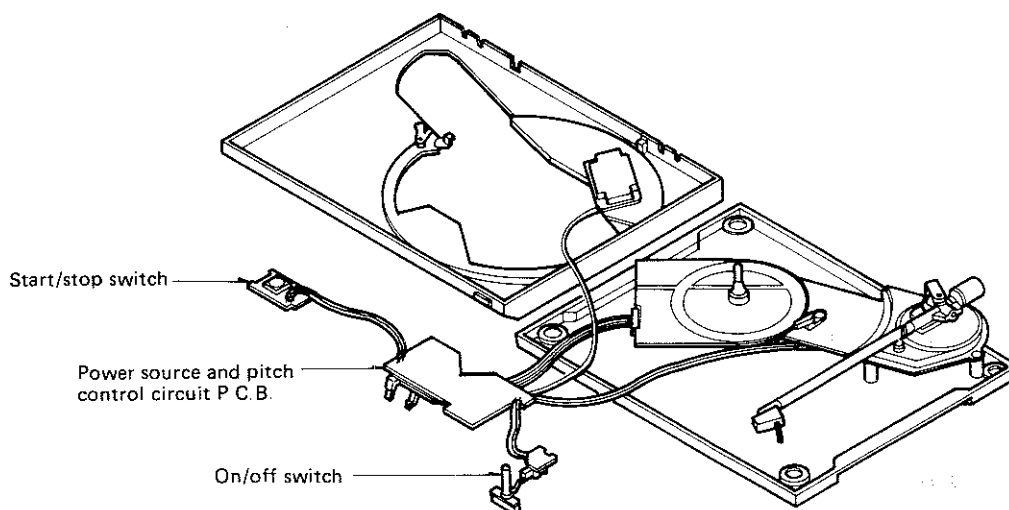
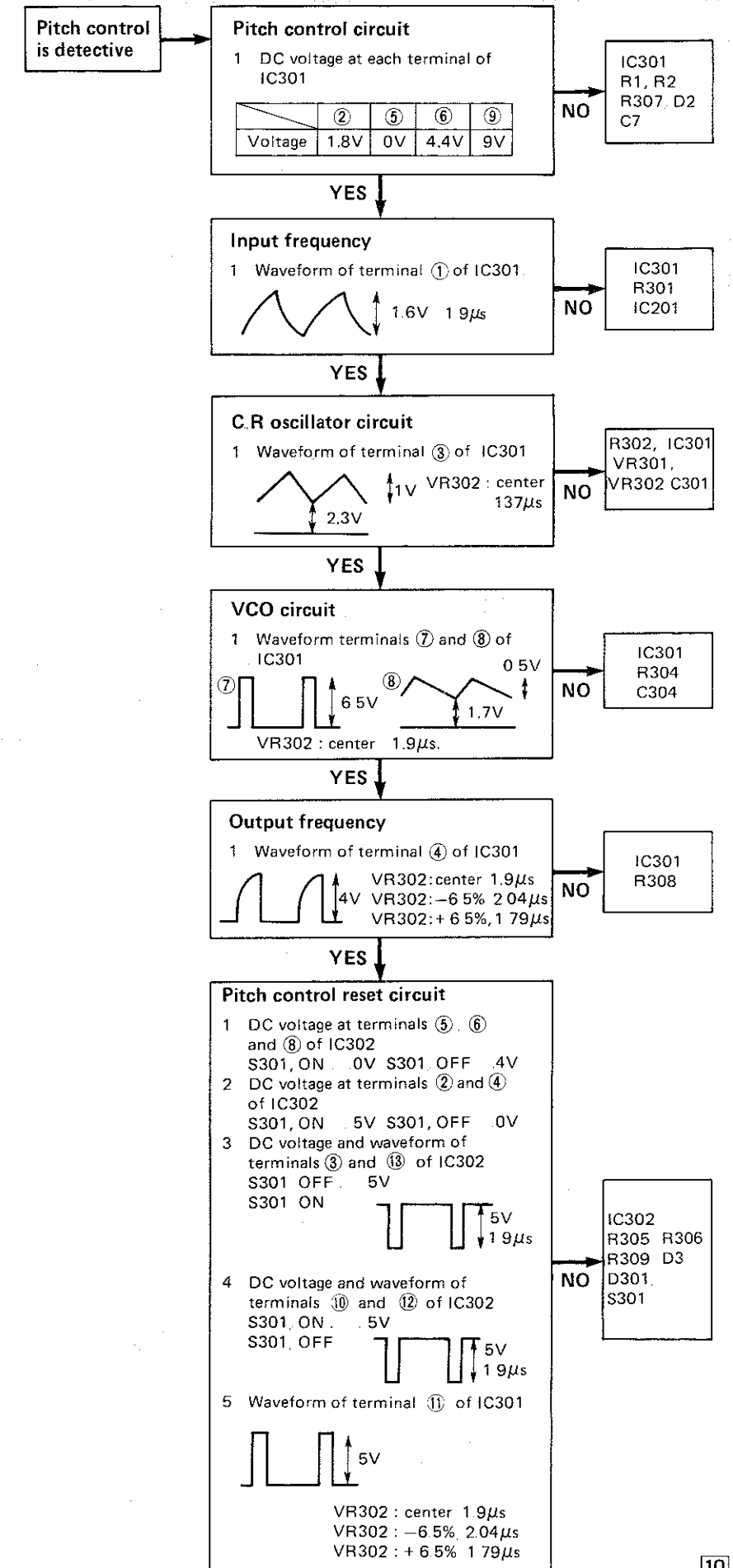
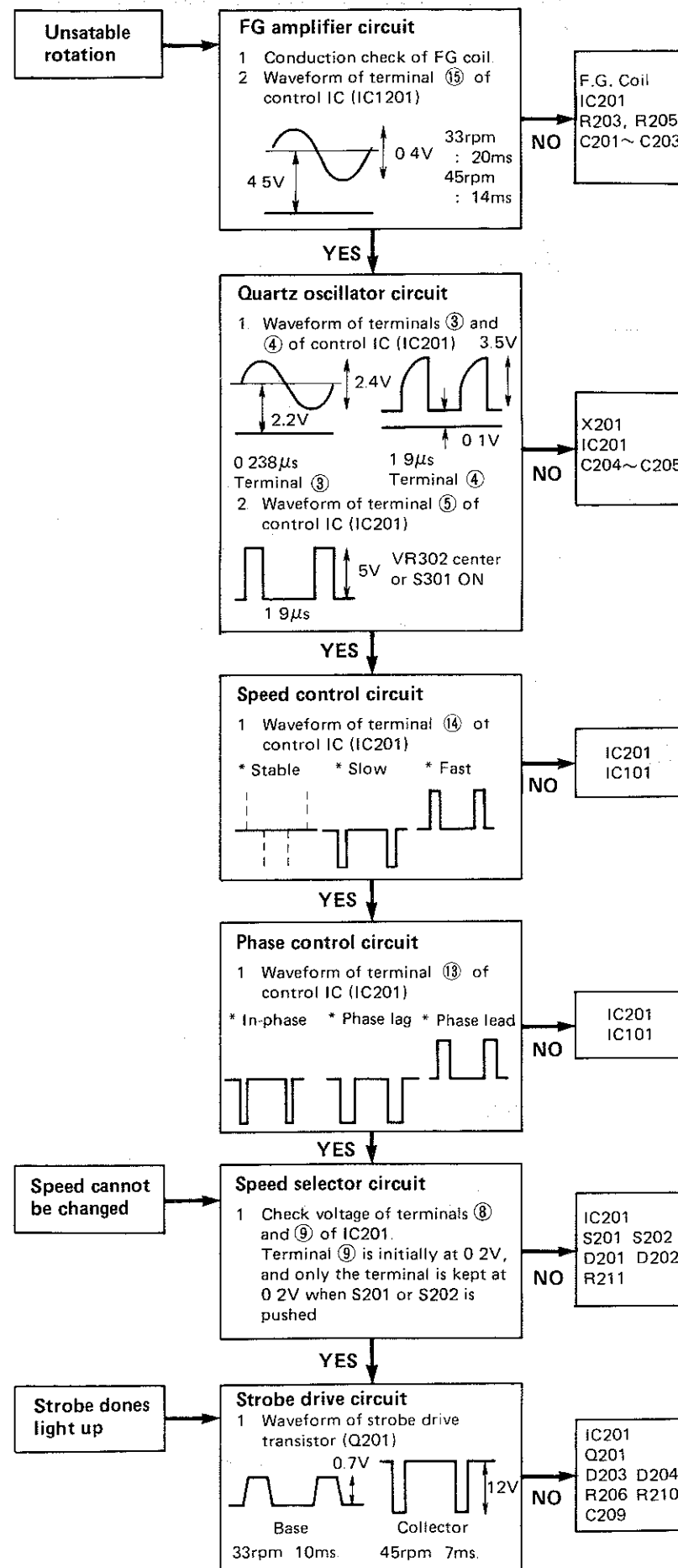
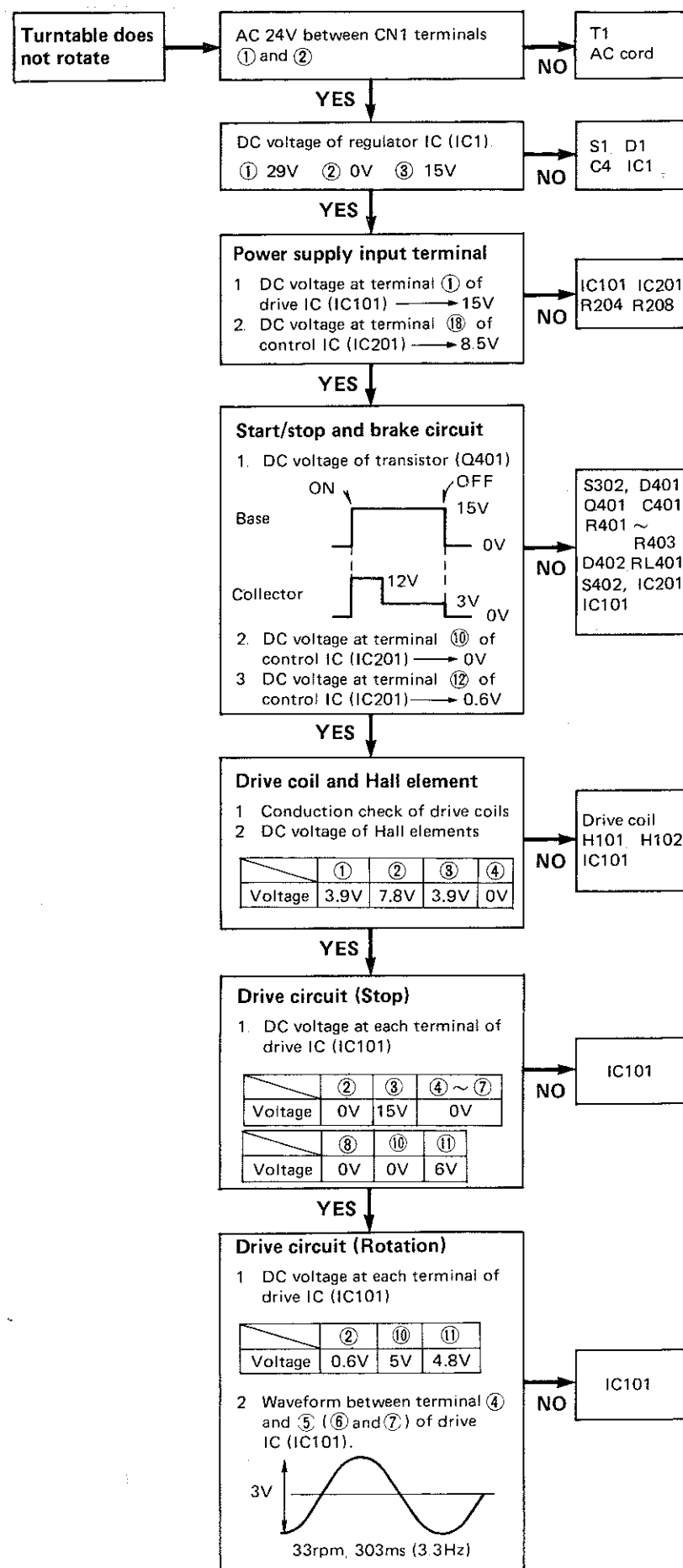
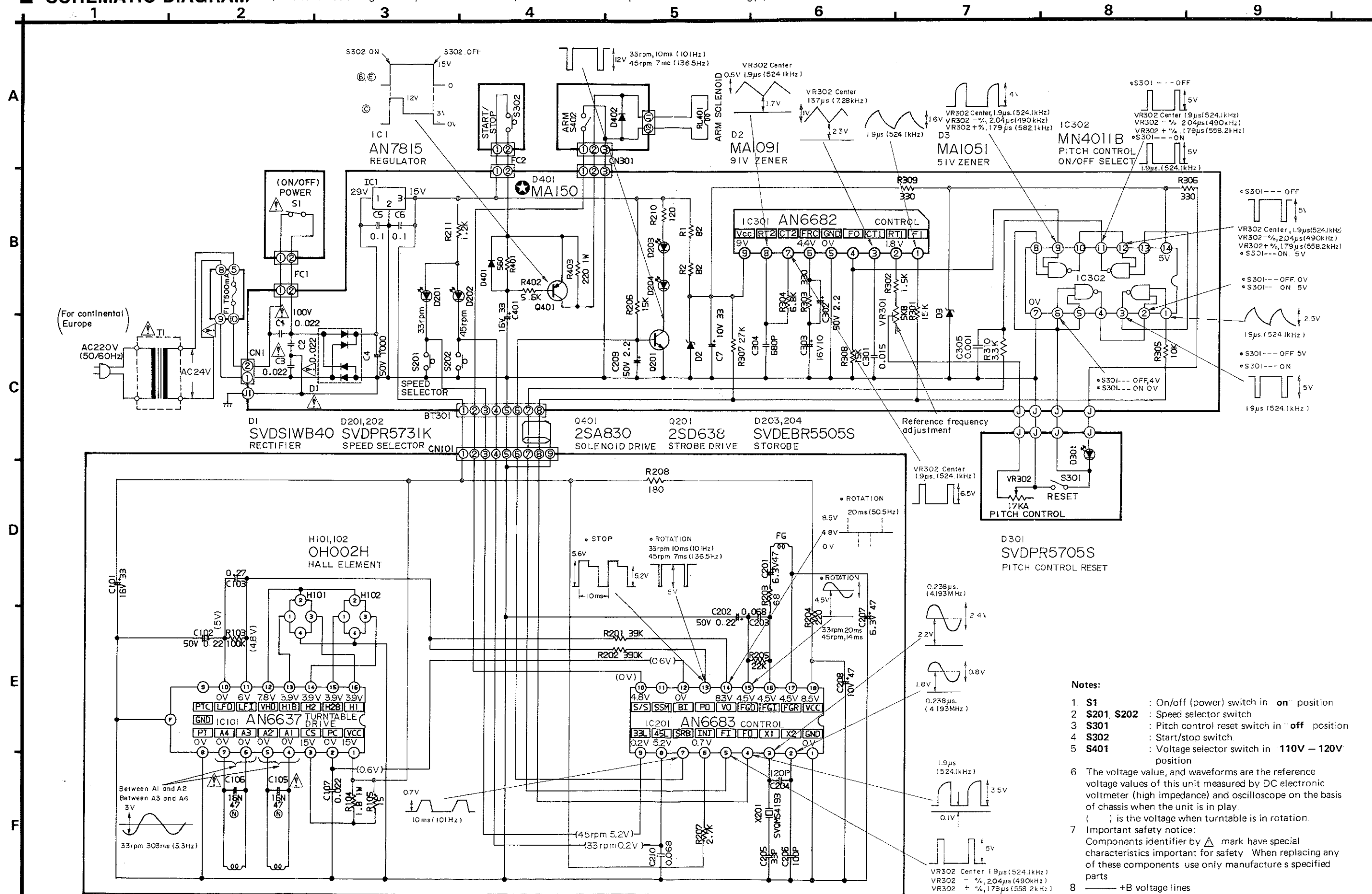


Fig. 22



SCHEMATIC DIAGRAM

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



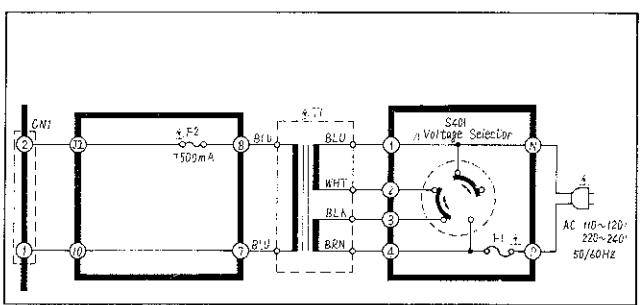
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

Ground (Earth) lines

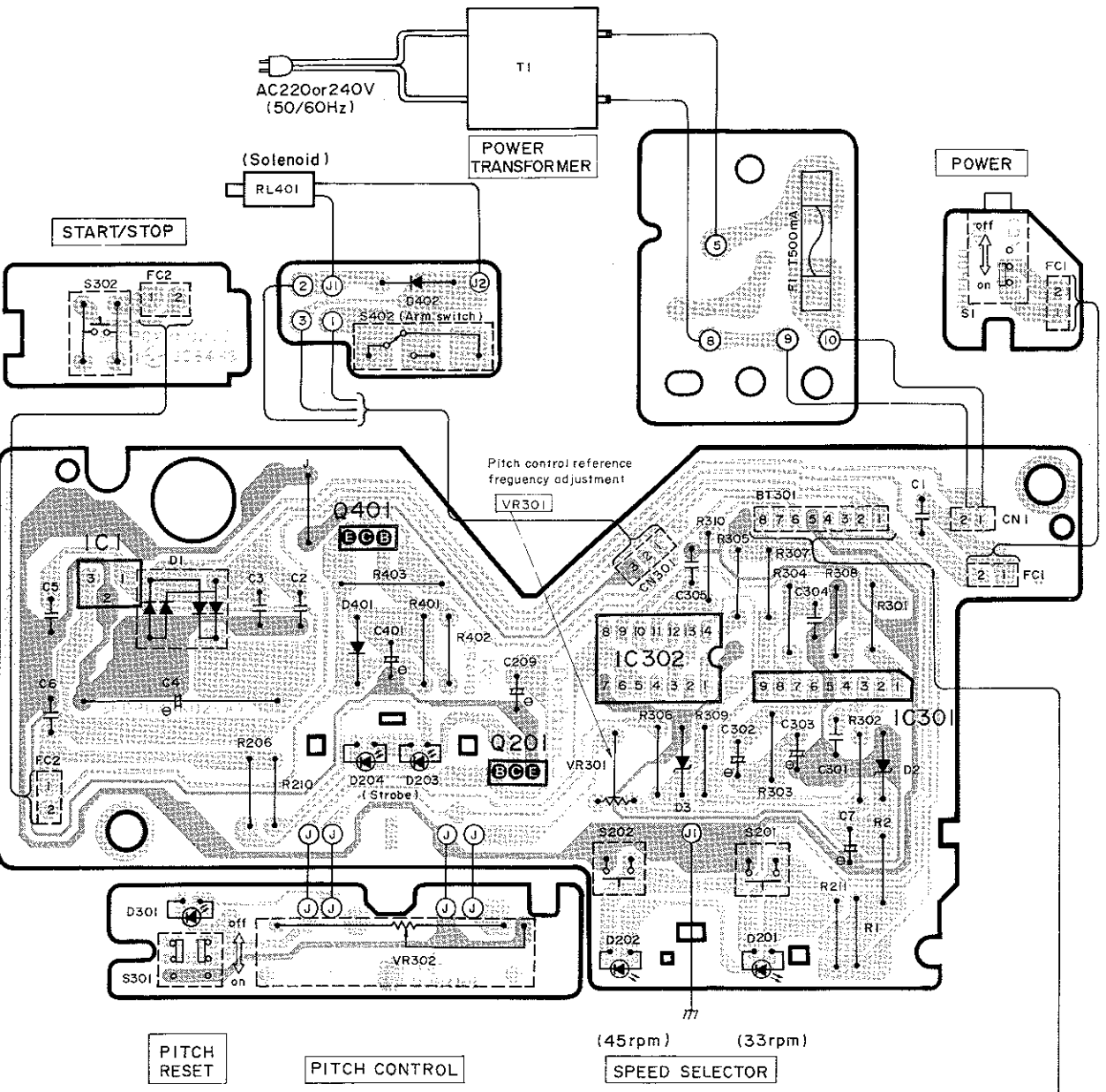
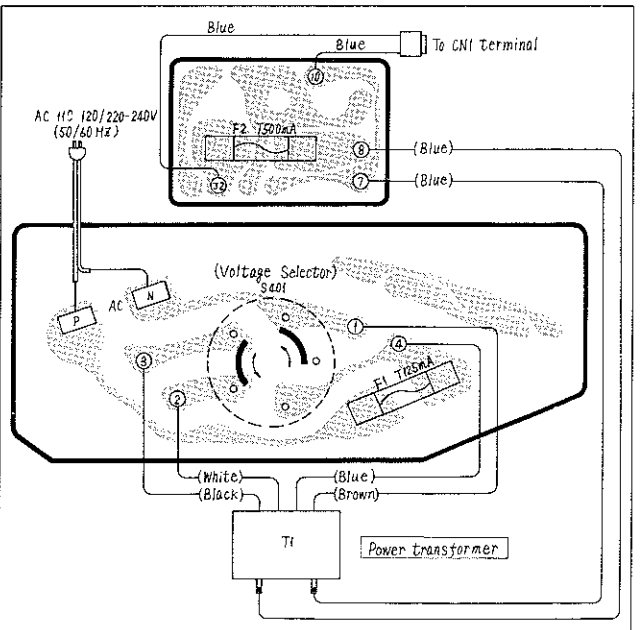
Areas

- * [E] is available in Switzerland and Scandinavia.
- * [EK] is available in United Kingdom
- * [XL] is available in Australia
- * [EG] is available in F.R. Germany
- * [EB] is available in Belgium
- * [EH] is available in Holland
- * [EF] is available in France
- * [Ei] is available in Italy.
- * [EC] is available in Czechoslovakia
- * [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America
- * [XM] is available in Central South America

Power source circuit For [EK], [XA] and [XM] areas



Power source circuit P.C.B. For [EK], [XA] and [XM] areas

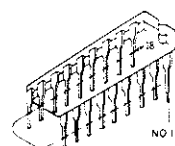
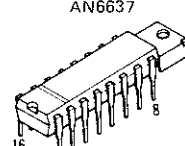
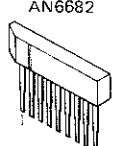
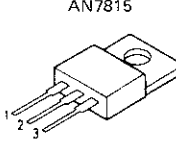
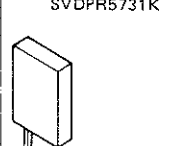
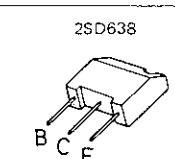
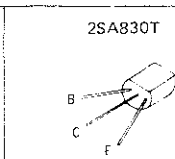


REPLACEMENT PARTS LIST (Electrical parts)

- Notes:**
- 1 Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
 - 2 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.
 - 3 Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
 - 4 The "S" mark is service standard parts and may differ from production parts.
 - 5 The parenthesized numbers in the columns of description stand for the quantity per set.

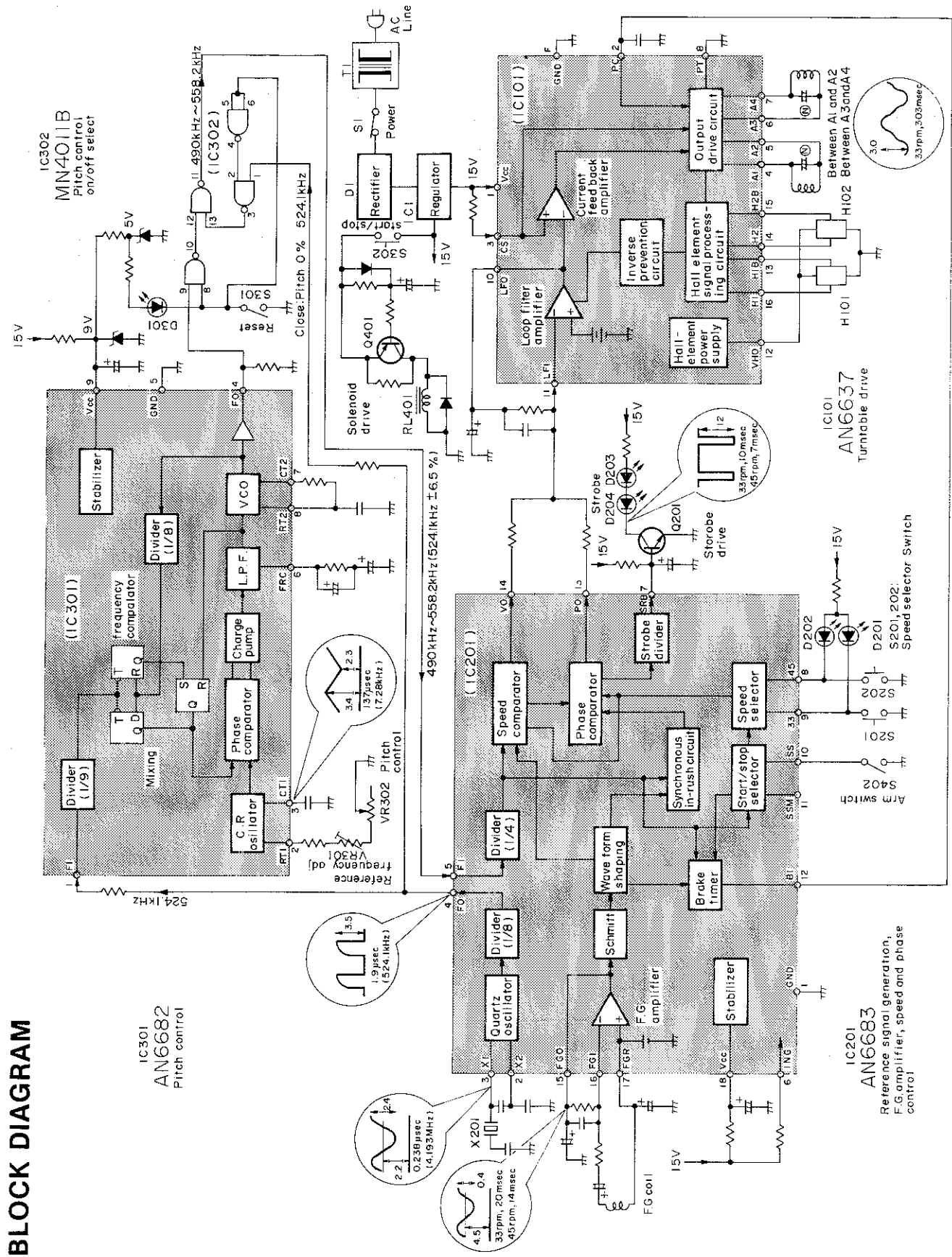
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
INTEGRATED CIRCUITS			POWER TRANSFORMER			CAPACITORS		
IC1	AN7815	Regulator	T1(XA XM-EK)	SLT57P24E	Power Source	C401	ECEA1CU330	Electrolytic 16V 33 μ F
IC101	AN6637	Drive	T1(XL)	SLT57DT5E	Power Source	RESISTORS		
IC201	AN6683	Control	T1 [Other Areas]	SLT57DT4E	Power Source	R1,2	ERD25FJ820	Carbon, 1/4W, 82 Ω
IC301	AN6682	Pich Control				R103	ERD10TLJ104U	Chip Carbon, 1/8W, 100k Ω , $\pm 5\%$
IC302	MN4011B	NAND Gate				R104	ERX1ANJ1R8	Metal Film, 1W 1.8 Ω , $\pm 5\%$
TRANSISTORS			CAPACITORS			R105	ERD10TLJ150U	Chip Carbon, 1/8W, 15 Ω , $\pm 5\%$
Q201	2SD638	Strobe drive	C1	Δ ECQM1223KZ	Polyester, 100V 0.022 μ F, $\pm 10\%$	R201	ERD10TLJ393U	Chip Carbon, 1/8W 39k Ω , $\pm 5\%$
Q401	2SA830T-93B	Solenoid drive	C2 3	Δ ECKD1H223PF	Ceramic 50V 0.022 μ F, $\pm 100\%$	R202	ERD10TLJ394U	Chip Carbon, 1/8W 390k Ω , $\pm 5\%$
DIODES			C4	ECEB1HU102	Electrolytic, 1000 μ F	R203	ERD10TLJ680U	Chip Carbon, 1/8W, 68 Ω , $\pm 5\%$
D1	Δ SVDS1WB40	Rectifier	C5 6	ECQM1H104KV	Polyester 50V 0.1 μ F	R204	ERD10TLJ221U	Chip Carbon, 1/8W 220 Ω , $\pm 5\%$
D2	MA1091	9.1V, Zener	C7	ECEA1AU330	Electrolytic, 10V 33 μ F	R205	ERD10TLJ223U	Chip Carbon, 1/8W 22k Ω , $\pm 5\%$
D3	MA1051	5.1V, Zener	C101	ECEA1CU330	Electrolytic 16V 33 μ F	R206	Δ ERD25TJ153	Carbon, 1/4W 15k Ω
D201 202	SVDP5731K	Light Emitting Diode	C102	Δ ECEA1HSR22	Electrolytic, 50V 0.22 μ F	R207	ERD10TLJ272U	Chip Carbon, 1/8W 2.7k Ω , $\pm 5\%$
D203 204	SVDEBR5505S	Light Emitting Diode	C103	ECQV05274JZ	Polyester, 50V 0.27 μ F, $\pm 5\%$	R208	ERD10TLJ181U	Chip Carbon, 1/8W 180 Ω , $\pm 5\%$
D301	SVDP5705S	Light Emitting Diode	C105 105	Δ ECEA1CN470S	Non Polar Electrolytic, 16V 47 μ F	R210	Δ ERD25FJ121	Carbon, 1/4W 120 Ω
D401	Δ MA162A	Timer, Solenoid	C107	ECKD1H223ZF	Ceramic, 50V 0.022 μ F, $\pm 80\%$ -20%	R211	Δ ERD25FJ122	Carbon, 1/4W 1.2k Ω
D402	SVDRM1Z	Arm Switch	C201	ECEA0JU470	Electrolytic 6.3V 47 μ F	R301	Δ ERD25TJ153	Carbon, 1/4W 15k Ω
VARIABLE RESISTORS			C202	Δ ECEA50Z22	Electrolytic, 50V 0.22 μ F	R302	Δ ERD25FJ152	Carbon, 1/4W 1.5k Ω
VR301	EVN61AA00B53	Speed Adjustment 5k Ω (B)	C203	ECQM1H683KV	Polyester, 50V 0.068 μ F, $\pm 10\%$	R303	Δ ERD25FJ331	Carbon, 1/4W 330 Ω
VR302	EWANF5C15AU4	Pich Control 17k Ω	C204	ECUV1H121JCM	Chip Ceramic, 50V, 120pF, $\pm 5\%$	R304	Δ ERD25FJ682	Carbon, 1/4W 6.8k Ω
HALL ELEMENTS			C205	ECUV1H330JCM	Chip Ceramic, 50V 33pF $\pm 5\%$	R305	Δ ERD25FJ103	Carbon, 1/4W, 10k Ω
H101, 102	OH-002	Turntable Position	C206	ECUV1H101JCM	Chip Ceramic 50V, 100pF, $\pm 5\%$	R306	Δ ERD25FJ331	Carbon, 1/4W 330 Ω
CRYSTAL			C207	ECEA0JU470	Electrolytic, 6.3V 47 μ F	R307	Δ ERD25TJ273	Carbon, 1/4W 27k Ω
X201	SVQMS4193	4.193MHz	C208	ECEA1AU470	Electrolytic 10V 47 μ F	R308	Δ ERD25TJ153	Carbon, 1/4W 15k Ω
SWITCHES			C209	ECEA1HU2R2	Electrolytic, 50V 2.2 μ F	R309	Δ ERD25FJ331	Carbon, 1/4W 330 Ω
S1	Δ SFDSC05N08	On/Off	C210	ECUV1H683JFM	Chip Ceramic, 50V 0.068 μ F	R310	Δ ERD25FJ332	Carbon, 1/4W 3.3k Ω
S201 202	EVQOSH03B	Speed Selector	C301	ECQK1153JZ	Polyester 100V 0.015 μ F	R401	Δ ERD25FJ561	Carbon, 1/4W 560 Ω
S301	ESB6439	Pich Control	C302	ECEA1HU2R2	Electrolytic, 50V 2.2 μ F	R402	Δ ERD25FJ562	Carbon, 1/4W 5.6k Ω
S302	EVQQR02K	Start/Stop	C303	ECEA1CU100	Electrolytic, 16V 10 μ F	R403	Δ ERG1ANJ221	Metal Film, 1W 220 Ω
S401	Δ SFDSHXW0225	Voltage Selector	C304	Δ ECCD1H681J	Ceramic 50V 680pF			
[XA XM-EK]			C305	Δ ECKD1H102KB	Ceramic, 50V 0.001 μ F			
S402	SFSSSS5GLP	Arm						
SOLENOID								
RL401	SFDZQX3M51A	Solenoid Ass'y Start/Stop						
FUSES								
F1(XA XM-EK)	XBA2C012TR0	T 125mA 250V						
F1 [Other Areas]	Δ XBA2C05TR0	T 500mA 250V						
F2(XA XM-EK)	XBA2C05TR0	T 500mA 250V						

Terminal guide of transistors, diodes and IC's

 <table><tr><td>AN6683</td><td>18 pin</td></tr><tr><td>MN4011B</td><td>14 pin</td></tr></table>		AN6683	18 pin	MN4011B	14 pin	AN6637 		AN6682 		AN7815 		SVDPR5731K 	
AN6683	18 pin												
MN4011B	14 pin												
2SD638 		2SA830T 		SVDS1WB40									

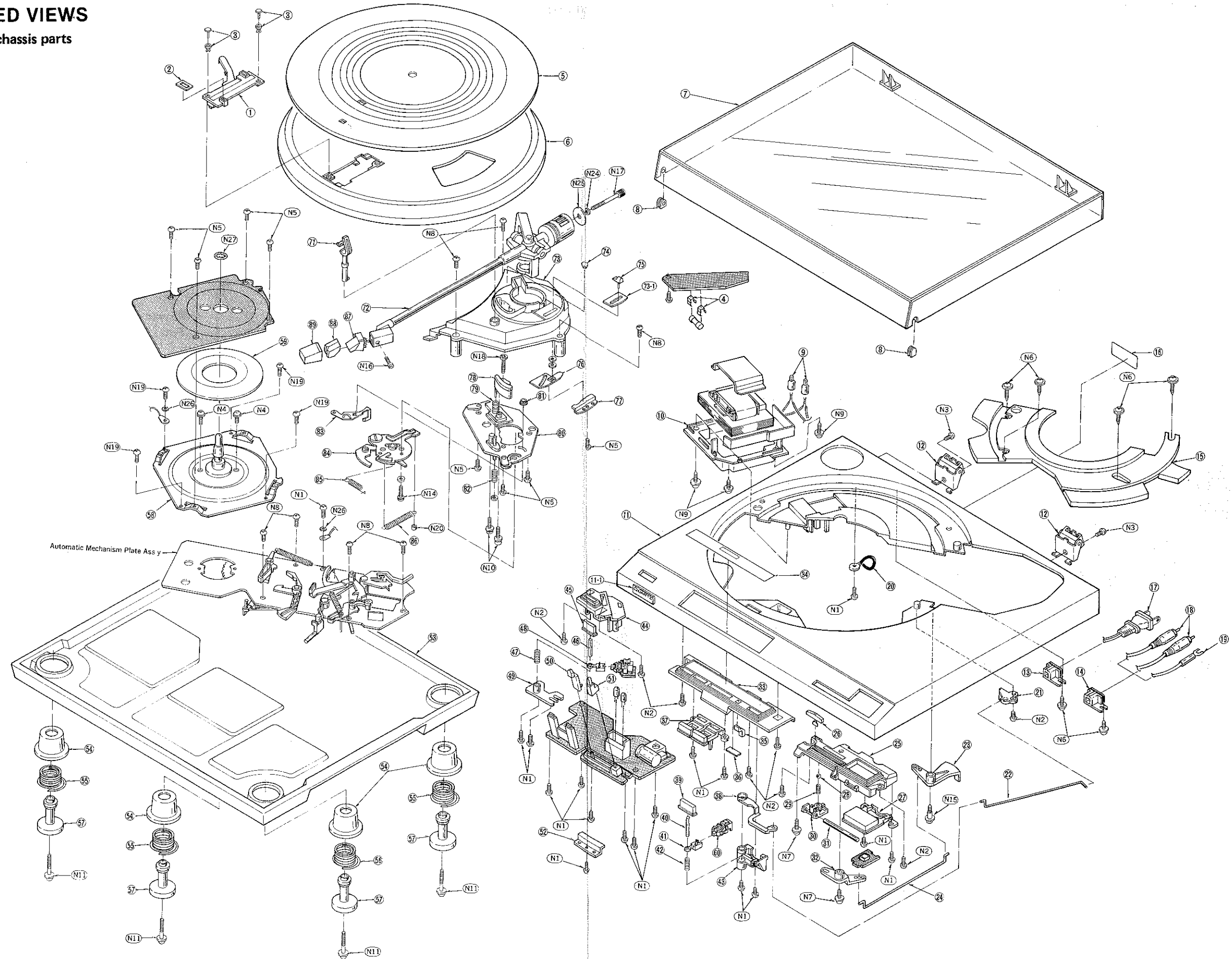
BLOCK DIAGRAM

16

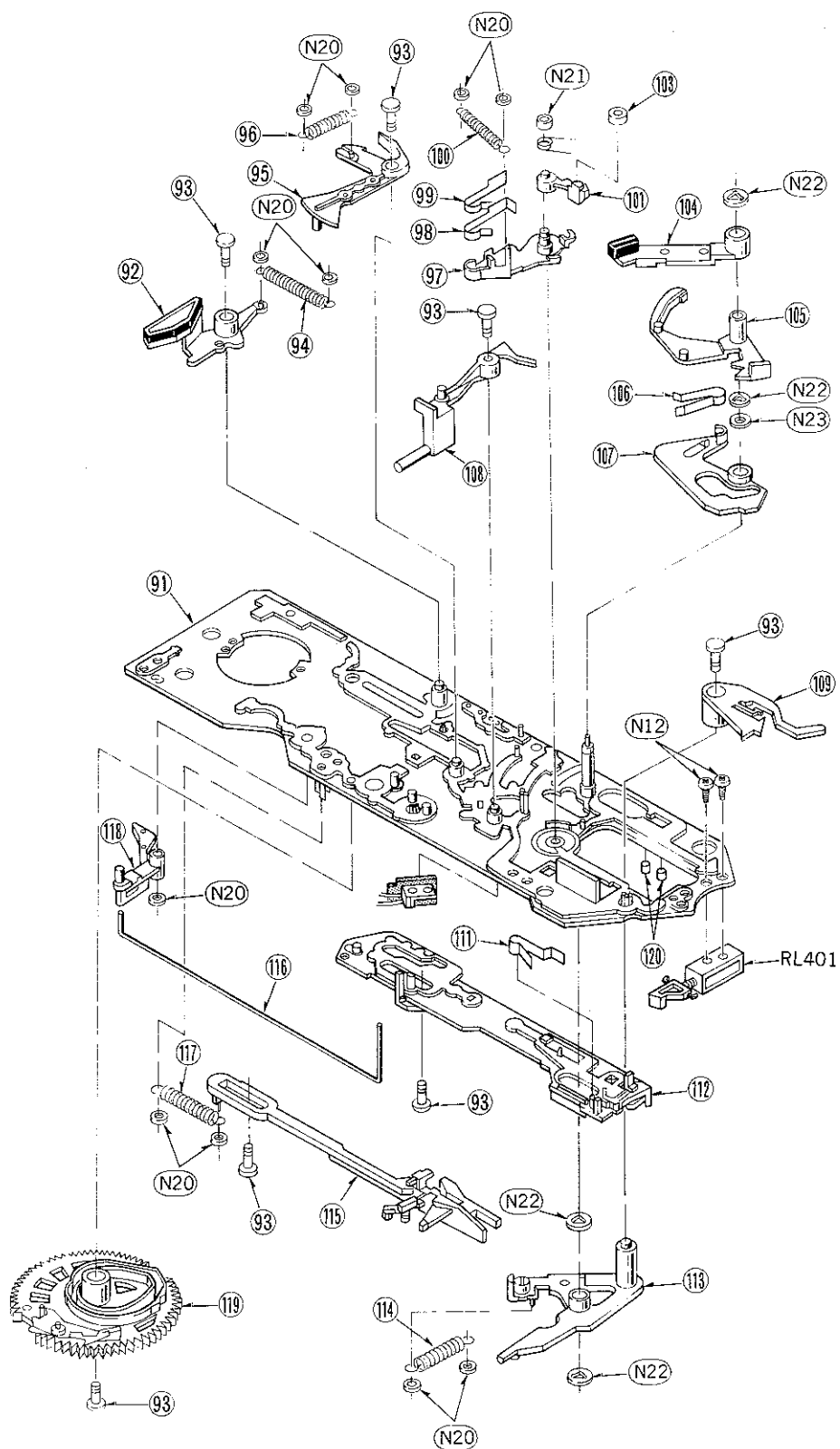


■ EXPLODED VIEWS

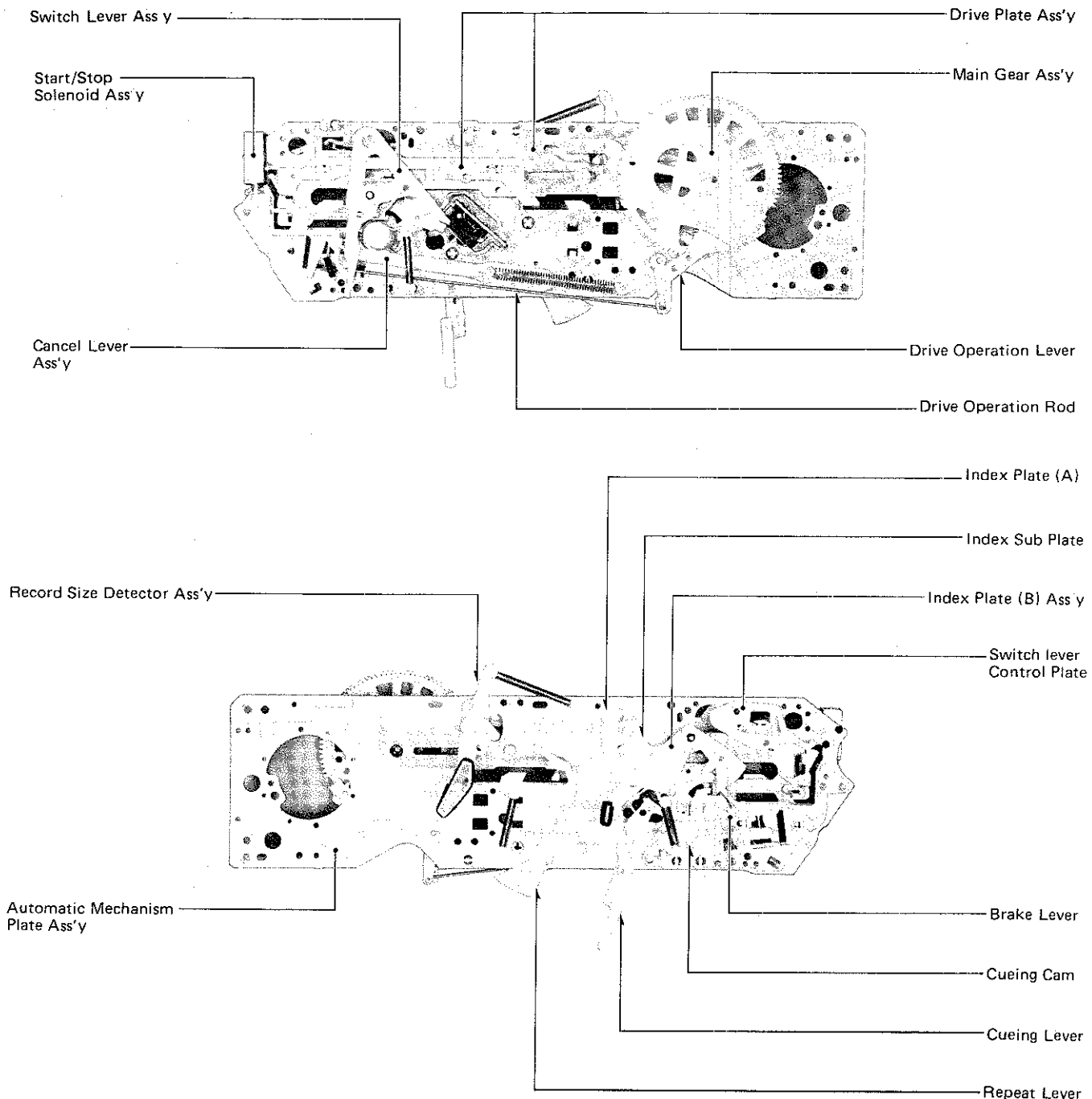
- Cabinet and chassis parts



• Automatic mechanism plate parts



• Location of automatic mechanism plate



■ REPLACEMENT PARTS LIST (Mechanical parts)

- Notes:**
- 1 Part numbers are indicated on most mechanical parts. Please use this part number for parts orders
 - 2 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.
 - 3 Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.

- 4 The 'S' mark is service standard parts and may differ from production parts
- 5 (K)-marked parts are used for black only while (O)-marked parts are for silver type only
- 6 Parts other than (K)- and (O)-marked are used for both black and silver types
- 7 The parenthesized numbers in the columns of description stand for the quantity per set

Black type model No. : SL-QX300(K)

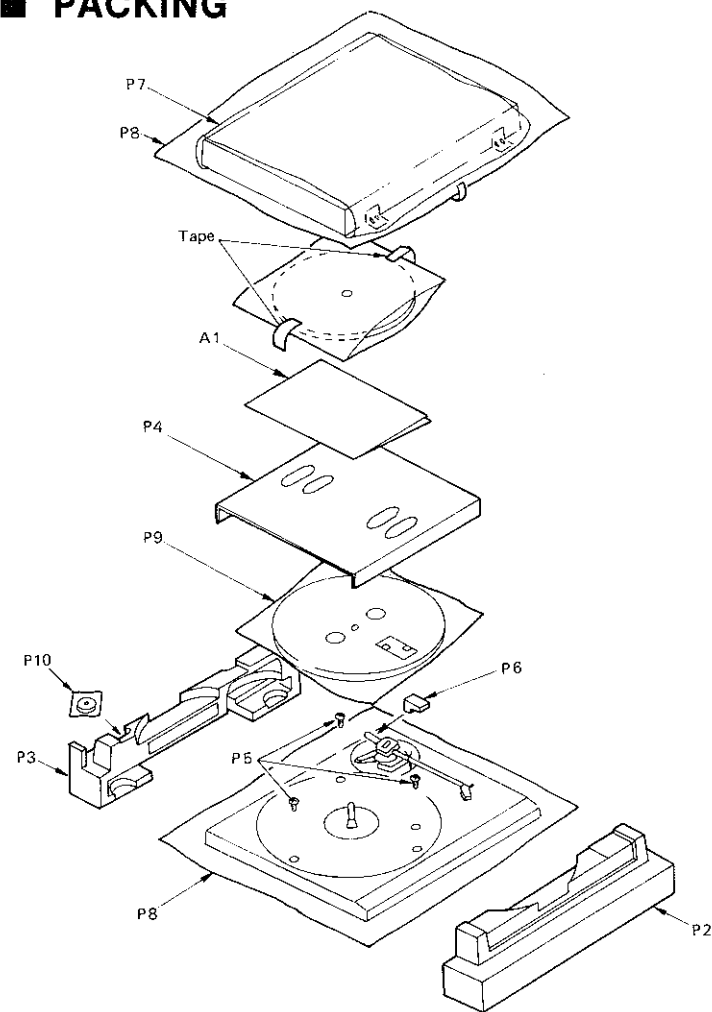
Areas

- * [E] is available in Switzerland and Scandinavia
- * [EK] is available in United Kingdom
- * [XL] is available in Australia
- * [EG] is available in F.R. Germany
- * [EB] is available in Belgium
- * [EH] is available in Holland

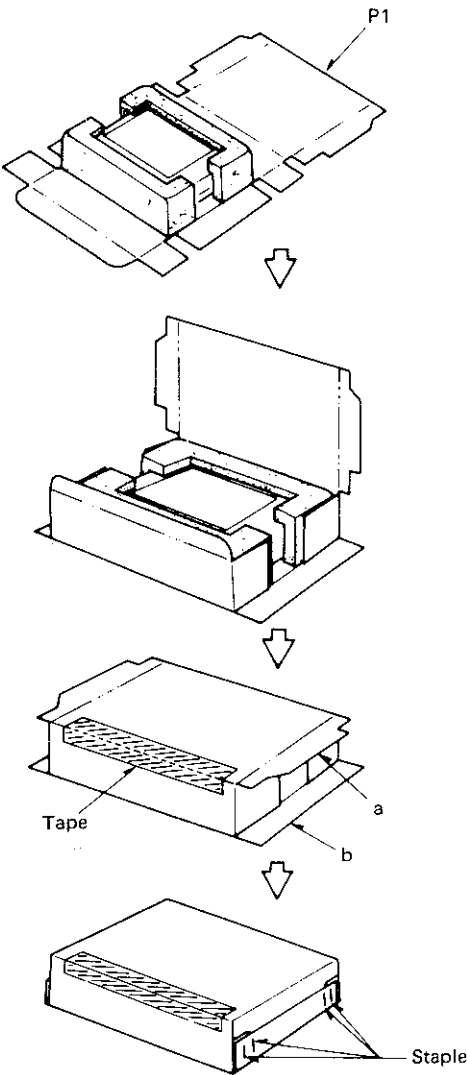
- * [EF] is available in France.
- * [Ei] is available in Italy.
- * [EC] is available in Czechoslovakia
- * [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America
- * [XM] is available in Central South America

Ref. No	Part No	Description	Ref. No	Part No	Description	Ref. No	Part No.	Description
CABINET AND CHASSIS PARTS			CABINET AND CHASSIS PARTS			AUTOMATIC MECHANISM PLATE PARTS		
1	SFUMQ34N01E	Record Size Detector (1)	37	SFKTXQ3M01	Button, Speed Select (1)	91	SFUKB63M51E	Automatic Mechanism Plate Ass'y (1)
2	SFUZQX3M01	Tape, Record Size Detector (1)	38	SFUMQ34N05	Lever Repeat (1)	92	SFUMQ63M51E	Record Size Detector Ass'y (1)
3	SFUZD33-01E	Latch, Record Size Detector (2)	39	SFKTXQ34N02	Knob, Repeat (1)	93	SFUMZ15R56	Pins (6)
4	SJT347	Holder Fuse (4)	40	SFXJQ34N02	Shaft Repeat Knob (1)	94	SFQHB63M53	Spring, Record Size Detector Ass'y (1)
5	SFTGQ63M01	Turntable Mat (1)	41	SFUMQ34N13	Connecting Plate, Repeat Switch (1)	95	SFUMB63M58	Lever, Repeat (1)
6	SFTEQX3M01A	Turntable Platter (1)	42	SFQAD20-01	Spring Shaft (1)	96	SFQHB63M54	Spring Repeat Lever (1)
7	SFADZ15R01	Dust Cover (1)	43	SFUMQ34N12	Holder, Repeat Switch (1)	97	SFUMB63M60	Cam, Cueing (1)
8	SFGZZ15R01	Cushion Rubber, Dust Cover (2)	44	○ SFUMQX3M01	Base, Power Switch Knob (Silver) (1)	98	SFQPB63M52	Spring Cueing Cam (1)
9	SJE41	Clamper, AC Cord & Power Transformer (2)	44	Ⓚ SFUMQX3M21	Base, Power Switch Knob (Black) (1)	99	SFQPB63M54	Spring Cueing Cam (1)
10	SFUMQX3M15	Cover, Power Transformer (1)	45	SFKTXQ34N02	Knob, Power Switch (1)	100	SFQHB63M55	Spring Cueing Cam (1)
11	○ SFACQX3M01A	Cabinet (Silver) (1)	46	SFXJQ34N02	Shaft, Power Switch Knob (1)	101	SFUMB63M61	Lever, Brake (1)
11	Ⓚ SFACQX3M21A	Cabinet (Black) (1)	47	SFQAD20-01	Spring, shaft (1)	102	SFQSB63M52	Spring Brake Lever (1)
11-1	SFKBQ63M01	Badge, Cabinet (1)	48	SFUMQ34N13	Connecting Plate, Power Switch (1)	103	SFUZB63M52	Felt Brake Lever (1)
12	SFATQX3M01A	Hinge (2)	49	SFUMQX3M04	Holder, Power Switch Knob (1)	104	SFUMB63M64E	Plate(B) Ass'y Index (1)
13	SFUMQX34N10	Bushing AC Cord (1)	50	SFKTXQ3M04	Knob, Pitch Control (1)	105	SFUMB63M63	Plate(A), Index (1)
14	SFUMQ34N10	Bushing, Phono Cord & Ground Wire (1)	51	SFKTXQ3M03	Knob, Lock (1)	106	SFQPB63M53	Spring Index Sub Plate (1)
15	SFUMQ3M11	Panel Cover (1)	52	SFUMQX3M14	Shutter, Pitch Control (1)	107	SFUMB63M62	Sub Plate, Index (1)
16(EK)	SFNNQX3G02	Name Plate (1)	53	SFAUQX3M01	Bottom Board (1)	108	SFUMB63M59	Lever, Cueing (1)
16(E)	SFNNQX3S01	Name Plate (1)	54	SFGAQX3M01	Rubber Insulator (4)	109	SFUMB63M65	Control Plate Switch Lever (1)
16(XL)	SFNNQX3G01	Name Plate (1)	55	SFQHQX3M01	Spring Insulator (3)	111	SFQPB63M51	Spring (1)
16(XA-XM)	SFNNQX3X01	Name Plate (1)	56	SFQHQX34N03	Spring (Silver) Insulator (1)	112	SFUBB63M51E	Plate Ass'y Drive (1)
16 [Other Areas]	SFNNQX3R01	Name Plate (1)	57	SFUMQ34N07E	Audio Insulator (4)	113	SFUMB63M55E	Lever Ass'y Switch (1)
17(EK)	Ⓢ△ SJA139	AC Cord (1)	58	SFMZQ63M53A	Stator Flame Ass'y (1)	114	SFQHB63M52	Spring Switch Lever (1)
17(XL)	Ⓢ△ SJAG23	AC Cord (1)	59	SFMGQ34N01	Cover Stator Coil (1)	115	SFUMQX3M54E	Lever Ass'y Cancel (1)
17 [Other Areas]	Ⓢ△ SJA137	AC Cord (1)	60	SFDSQX3M01E	Switch Ass'y Repeat (1)	116	SFQSB63M51	Rod, Drive Operation (1)
18	SFDH212-01	Phono Output Cord (1)	TONE ARM PARTS			117	SFQHQ62M51	Spring Cancel Lever (1)
19	SFDLQX3M01E	Ground Wire (1)	71	SFKUB63M01E	Arm Rest (1)	118	SFUMB63M54	Lever, Drive Operation (1)
20	SXE513	Clamper (1)	72	○ SFPAMQ3201A	Tonearm Ass'y (Silver) (1)	119	SFUGB63M51E	Main Gear Ass'y (1)
21	SFUMQX3M13	Guide, Repeat (1)	72	Ⓚ SFPAMQ3205A	Tonearm Ass'y (Black) (1)	120	SFUZQX3M02	Holder Lead Wires (2)
22	SFQSQX3M02	Rod, Repeat (1)	73	○ SFPCSQ3201E	Cover, Tonearm Base (Silver) (1)	SCREWS and WASHERS		
23	SFUMQX3M09	Cam, Cueing Lever (1)	73	Ⓚ SFPCSQ3203E	Cover, Tonearm Base (Black) (1)	N1	Ⓢ XTV3+8BFN	Screw (16)
24	SFQSQX3M01	Rod, Cueing (1)	73-1	SFPAKQ3201	Plate, Cancellor (1)	N2	XTW3+8E	Screw (8)
25	○ SFUMQX3M03	Base, Cueing (Silver) (1)	74	○ SFGK170-01	Rubber, Cap (Silver) (1)	N3	XTV3+8JFZ	Screw (2)
25	Ⓚ SFUMQX3M23	Base, Cueing (Black) (1)	75	SFPABQ3202	Knob, Cancellor (1)	N4	XTV3+8JFYR	Screw (6)
26	SFKTXQ34N01	Knob, Cueing (1)	76	SFPABQ3203	Plate, Operation (1)	N5	Ⓢ XTV3+6BFN	Screw (8)
27	SFKTXQ3M02	Button, Start/Stop (1)	77	SFPZBQ3202	Holder, Plate (1)	N6	XTW3+10TFYR	Screw (6)
28	SFYB-5-32	Ball (1)	78	SFUMZ15R58	Arm Lift (1)	N7	XTW3+10Q	Screw (2)
29	SFQA130-11	Spring (1)	79	SFQA215R52	Spring, Arm Lift (1)	N8	Ⓢ XTV3+10BFN	Screw (7)
30	SFUMQX3M08	Cueing Slider (1)	80	SFUPB63M51A	Base, Tonearm (1)	N9	XTW3+10TFZ	Screw (3)
31	SFXJQX3M01	Guide Shaft, Cueing Slider (1)	81	SFPZBQ3201	Guide Operation Plate (1)	N10	XYN3+F12S	Screw (2)
32	SFUMQX3M07	Lever Cueing Rod (1)	82	SFQA215R51	Spring, Arm Lift (1)	N11	XTW4+30TFYR	Screw (4)
33	○ SFUMQX3M02	Base, Size Selector Pich Control & Repeat Knob (Silver) (1)	83	SFUPQX3M51	Plate, Operation (1)	N12	XYN2+C4FZ	Screw (2)
33	Ⓚ SFUMQX3M22	Base, Size Selector Pich Control & Repeat Knob (Black) (1)	84	SFUPB63M53A	Fixing Plate Ass'y, Tonearm (1)	N13	XTS3+16FFZ	Screw (1)
34	SFKKQX3M01	Surface Plate (1)	85	SFQHQX3M51	Spring Cancellor (1)	N14	SFXGQ34N02	Screw (1)
35	SFUMQX3M12	Cover, LED (Strobe) (1)	86	SFXWZ15R51	Spring (1)	N15	SFXGQ20-01	Screw (1)
36	SFUPQX3M01	Reflector (1)	87	EPC-P33	★ Cartridge (1)	N16	SFPEVOP301	Screw (1)
			88	EPS-P33ES	★ Stylus (1)	N17	SFPEVQ3201	Screw (1)
			89	SFCNC02301	Cover, Stylus (1)	N18	SFXJQX3M01	Screw (1)
						N19	XTV3+10JFYR	Screw (4)
						N20	SFXWZ15R51	Washer (1)
						N21	SFUMZ15R61	Washer (1)
						N22	SFXWB63M52	Washer (1)
						N23	SFXWB63M53	Washer (1)
						N24	SFPEWQ3202	Washer (1)
						N25	SFPEWQ3201	Washer (1)
						N26	Ⓢ XWC3B	Washer (2)

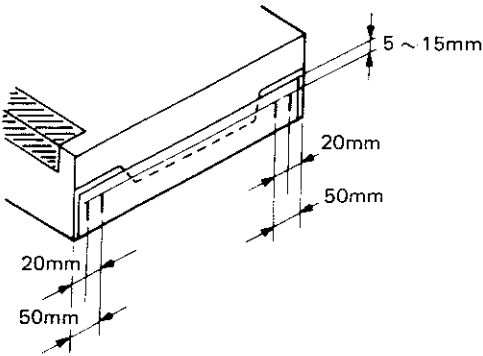
PACKING



- 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



Ref No.	Part No.	Description
ACCESSORIES		
A1(EK)	SFNUQX3G01	Instruction Book (1)
A1(XL-XA XM)	SFNUQX3X01	Instruction Book (1)
A1(EG)	SFNUQX3R01	Instruction Book (1)
A1(EF)	SFNUQX3F01	Instruction Book (1)
A1(EI)	SFNUQX3I01	Instruction Book (1)
A1 (Other Areas)	SFNUQX3S01	Instruction Book (1)
A2	SFWE212-01	Adaptor 45 r.p.m. (1)
A3(XA XM)	SFDKI19118	2p Plug (1)
PACKING PARTS		
P1(EF)	○ SFHPQX3C01	Carton Box(Silver) (1)
P1 (Other Areas)	○ SFHPQX3M01	Carton Box(Silver) (1)
P1(EF)	⊗ SFHPQX3C21	Carton Box(Black) (1)
P1 (Other Areas)	⊗ SFHPQX3M21	Carton Box(Black) (1)
P2	SFHHQX3M01	Pad, Front (1)
P3	SFHHQX3M02	Pad, Rear (1)
P4	SFHDQ34N01	Pad, Turntable Platter (1)
P5	SFXGQX3M01	Screw, Clamp (3)
P6	SFHZQX3M01	Pad, Tonearm (1)
P7	SFHZD03M01	Sheet Dust Cover (1)
P8	SFYH60×60	Polyethylene Bag, Unit & Dust Cover (2)
P9	SFYH40×45	Polyethylene Bag Turntable Platter (1)
P10	SFYF09A15	Polyethylene Bag, 45 r.p.m. Adaptor (1)