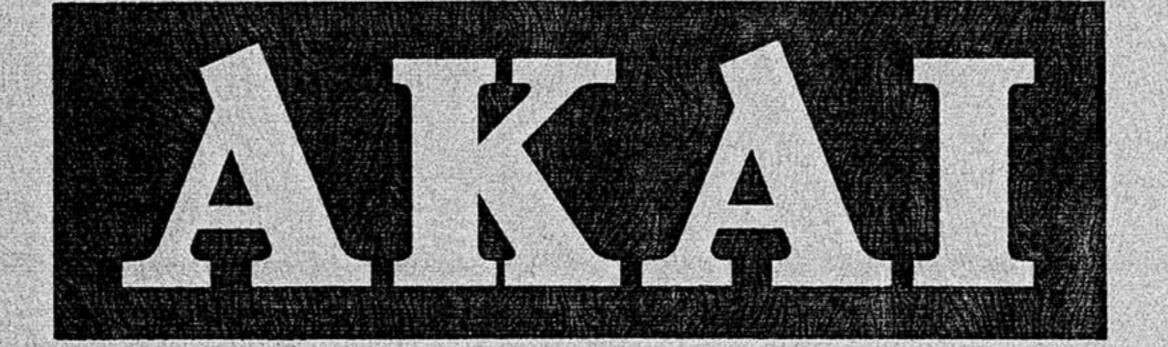
SERVICE MANUAL PARTS LIST

MODEL AP-0010



ALSO APPLICABLE TO MODEL AP-001



TURNTABLE

MODEL AP-001C

ALSO APPLICABLE TO MODEL AP-001

SECTION 1	SERVICE M	IANUAL		 	1
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SECTION 1

SERVICE MANUAL

TABLE OF CONTENTS

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	2. STYLUS CHANGE
	3. LUBRICATION
VII.	BLOCK DIAGRAM
VIII	TROUBLE SHOOTING CHART
A 111'	INCODER SHOOTING CHART

I. TECHNICAL DATA

1. TURNTABLE SECTION

TURNTABLE	300 mm aluminium alloy die cast	
DRIVE SYSTEM	Belt drive	
MOTOR	4-pole synchronous motor	
SPEED	33-1/3 and 45 rpm	
WOW & FLUTTER	0.06% WRMS	
SIGNAL TO NOISE RATIO	Better than 50 dB	

2. TONE ARM SECTION

TONE ARM	Static-balanced type stainless steel tubular arm with inside force canceler and lateral balance weight		
ARM LENGTH	220 mm		
STYLUS PRESSURE ADJUSTMENT RANGE	0 to 4 grams		
APPLICABLE CARTRIDGE WEIGHT	4 to 10 grams (10 to 15 grams using sub-weight)		
ARM LIFTER	Oil damped		
OVERHANG	15 mm		
SHELL WEIGHT	8.0 grams		

3. CARTRIDGE SECTION

CARTRIDGE	VM (dual magnet type) Audio Technica Model AT-11 with 0.7 mil spherical
	diamond stylus.
	Model AP-001C only. (Model AP-001 does not include cartridge)
FREQUENCY RESPONSE	15 Hz to 25,000 Hz
OUTPUT VOLTAGE	4 mV (1,000 Hz 50 mm/sec)
CHANNEL SEPARATION	20 dB (1,000 Hz)
OPTIMUM STYLUS PRESSURE	2.5 grams
REQUIRED LOAD IMPEDANCE	47k to 100 k ohms
WEIGHT	5.5 grams

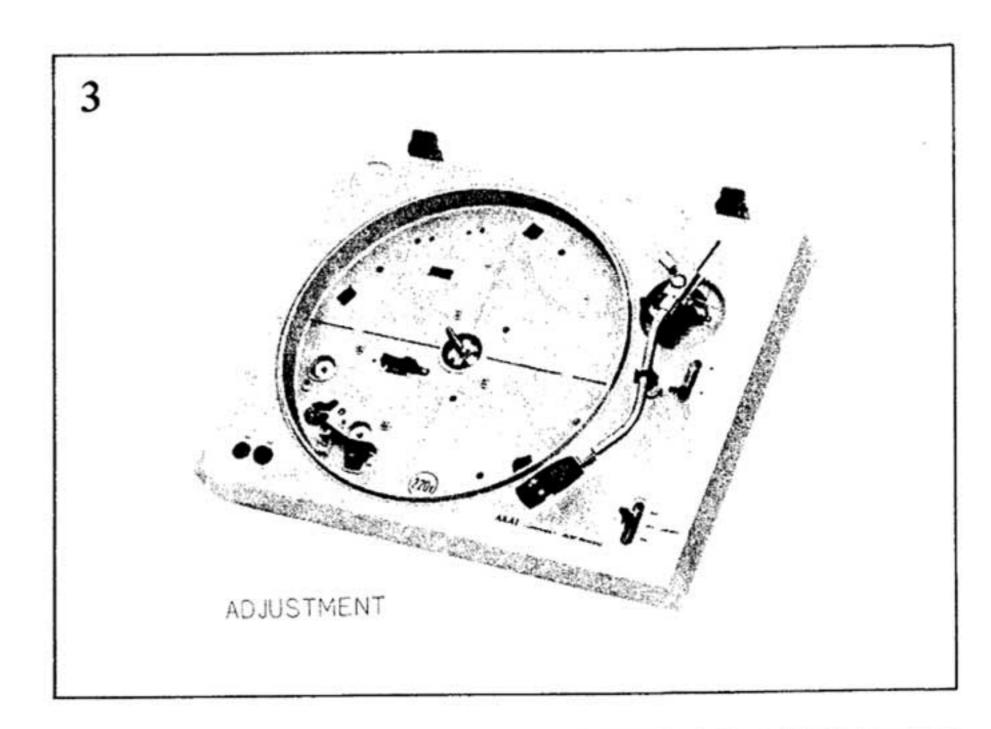
4. GENERAL SPECIFICATIONS

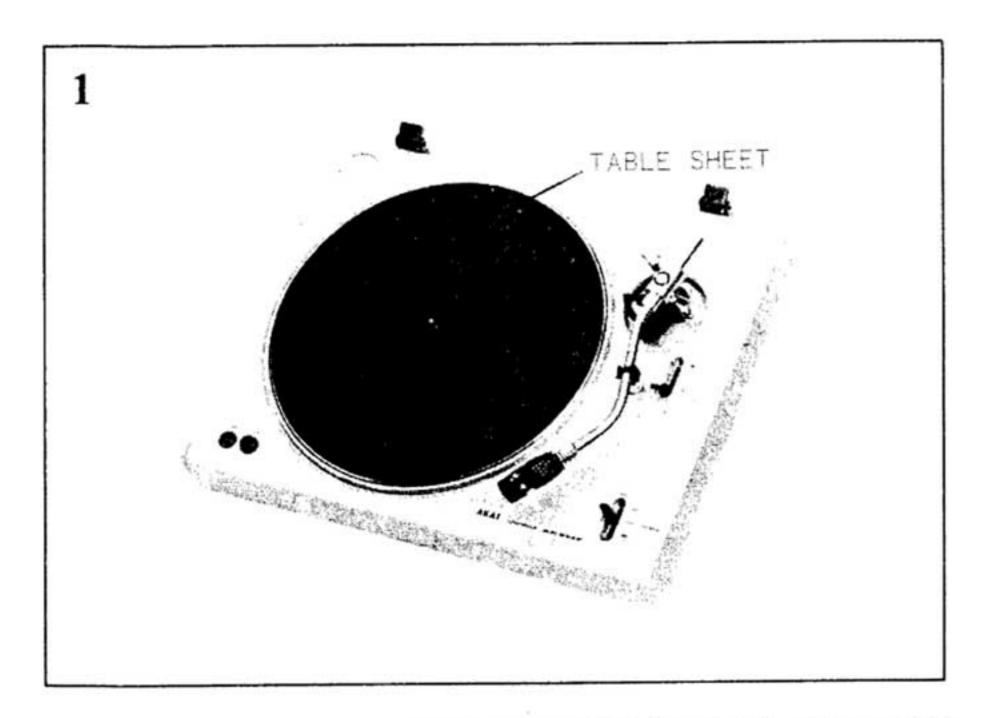
POWER REQUIREMENT	CSA Models 120V, 60 Hz
	CEE Models 220V, 50 Hz
	Other Models
DIMENSIONS	440(W) × 140(H) × 350(D) mm
	(17.3" × 5.5" × 13.8")
WEIGHT	6.3 kg (13.9 lbs.)

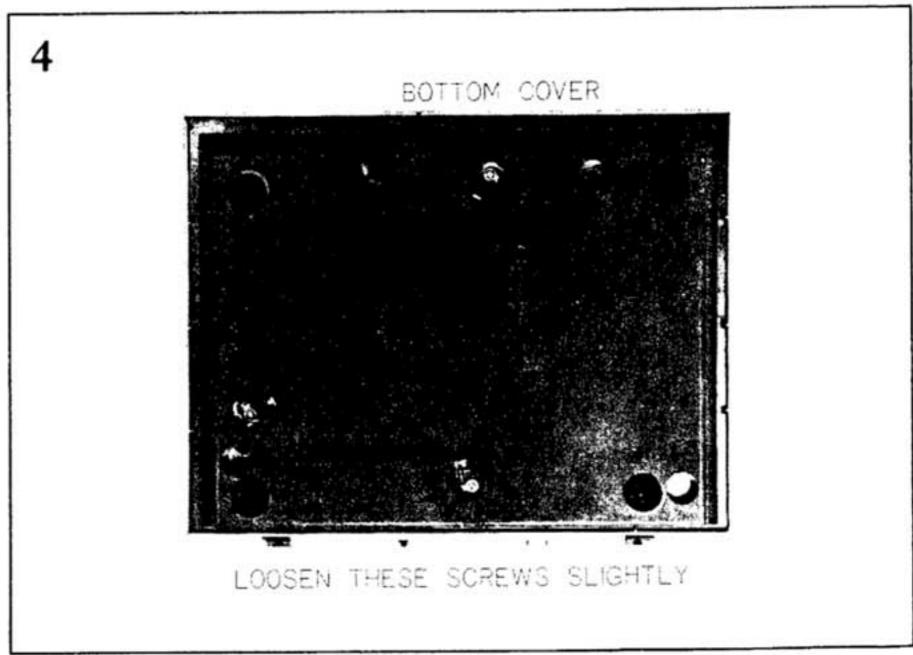
NOTE: For improvement purposes, specifications and design are subject to change without notice.

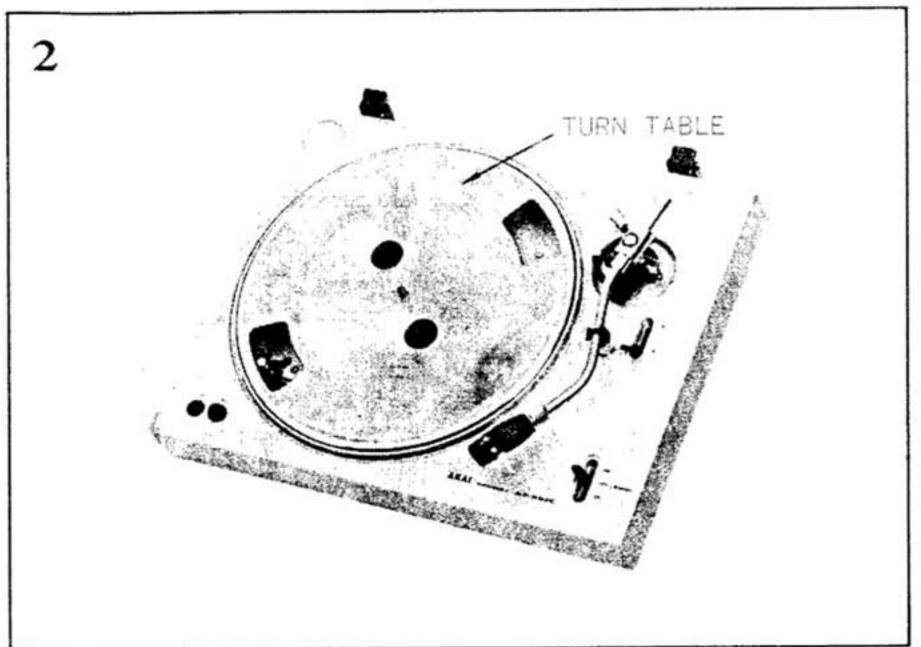
II. DISMANTLING OF UNIT

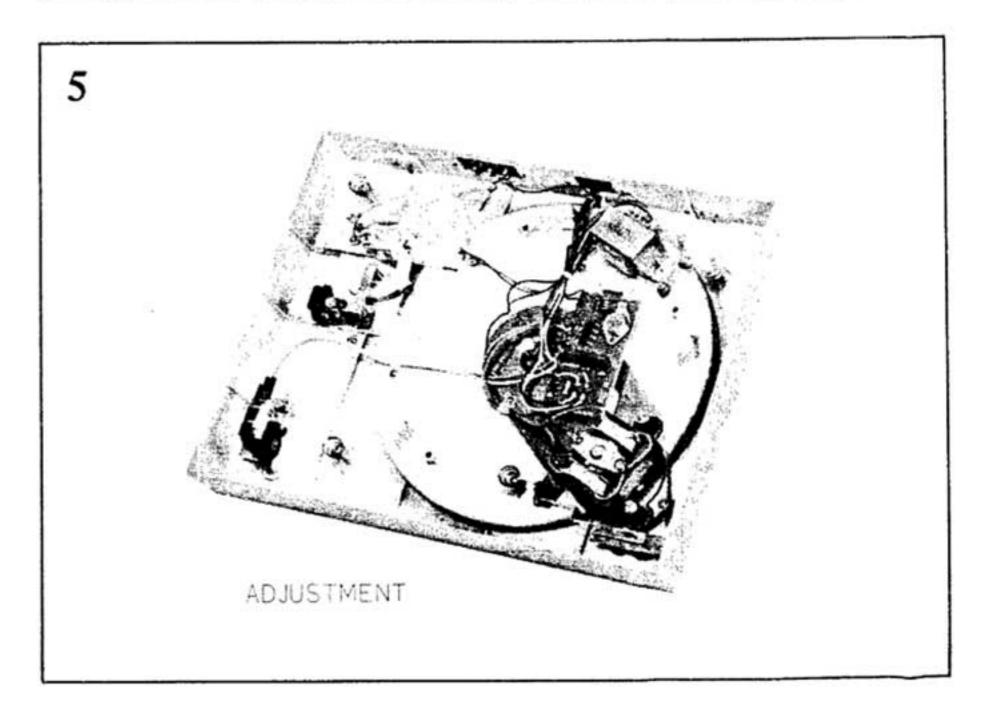
In case of trouble, etc. necessitating disassembly, please disassemble in the order shown in photographs. Reassemble in reverse order.



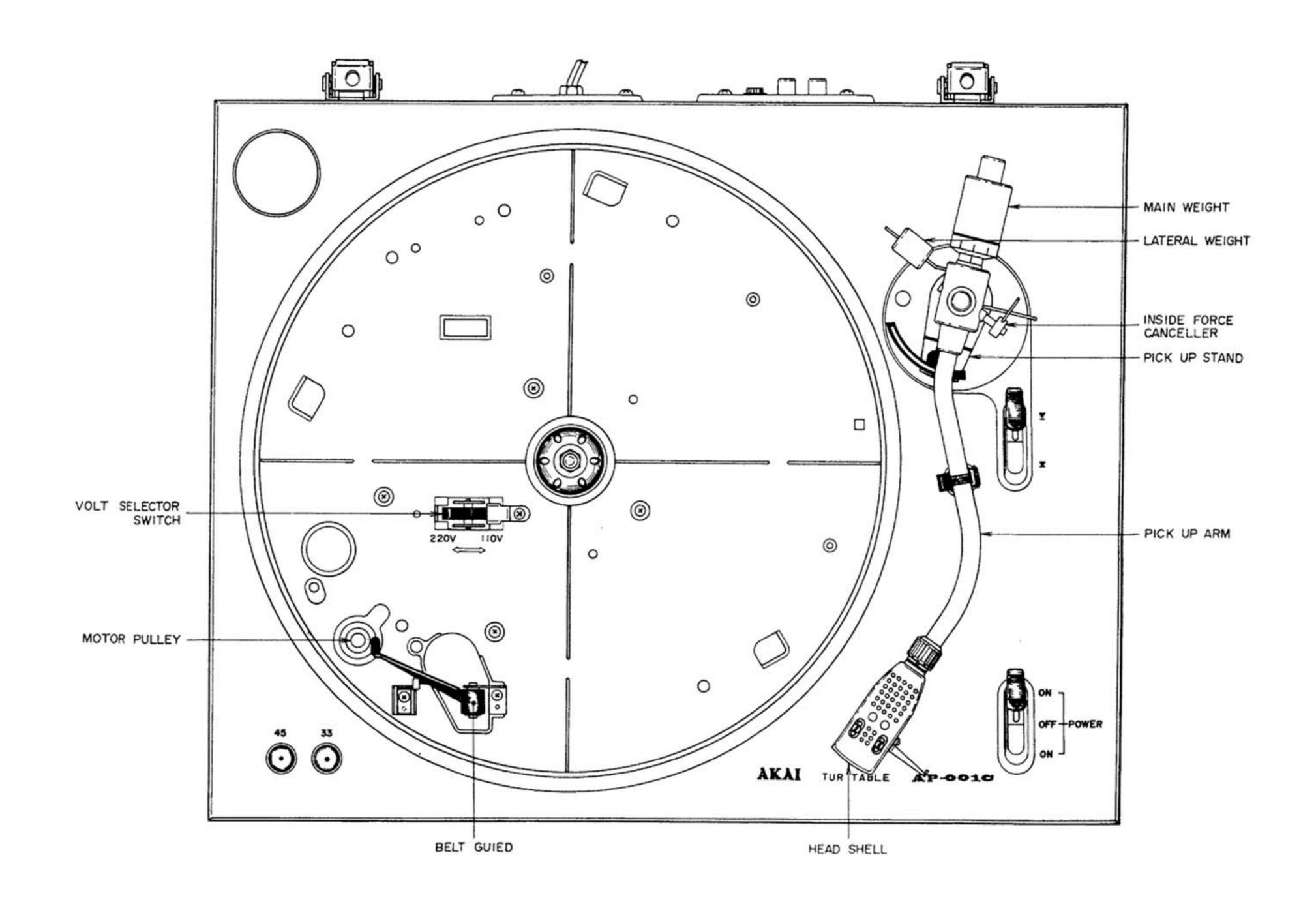


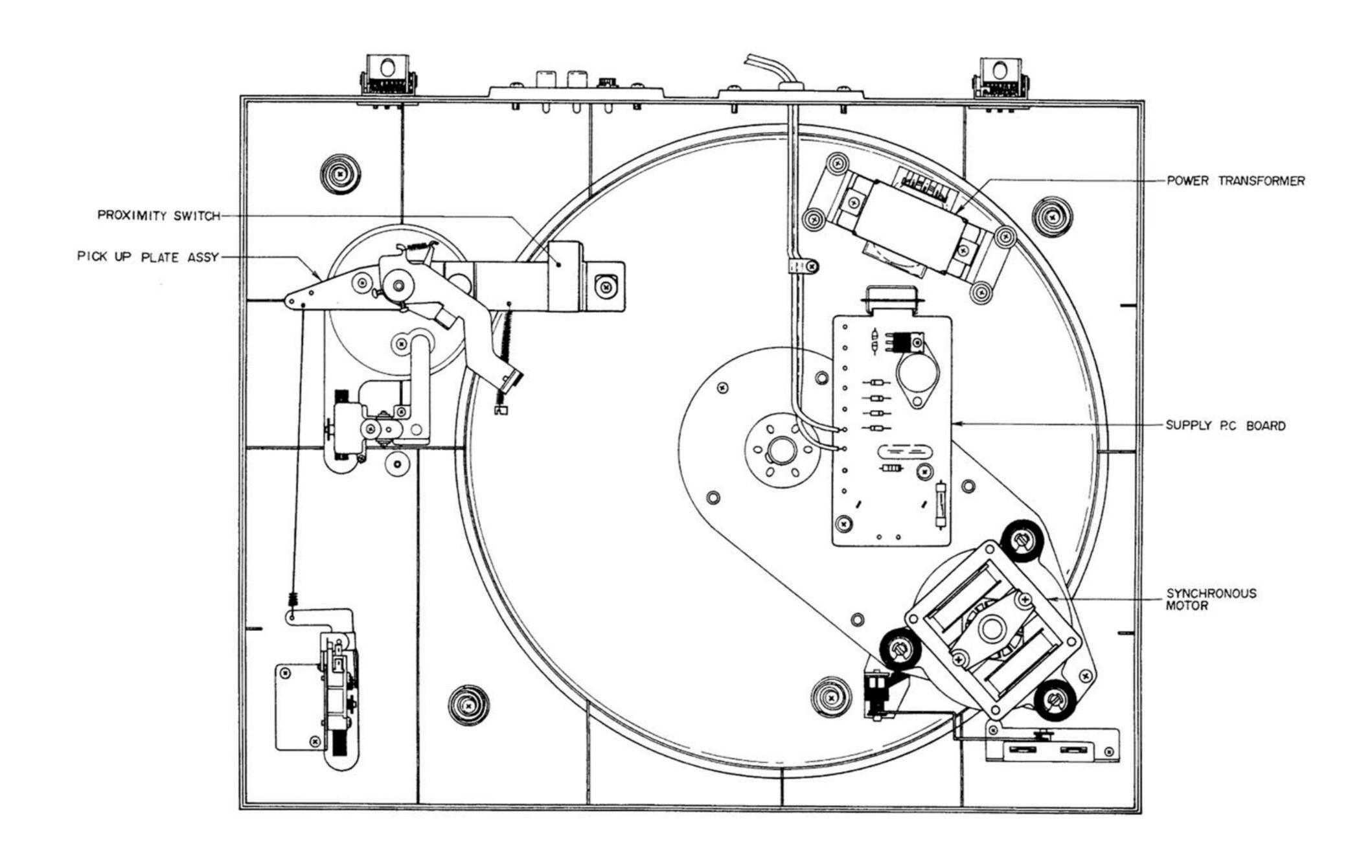






III. ARRANGEMENT OF PRINCIPAL PARTS





IV. AUTO STOP POSITION ADJUSTMENT

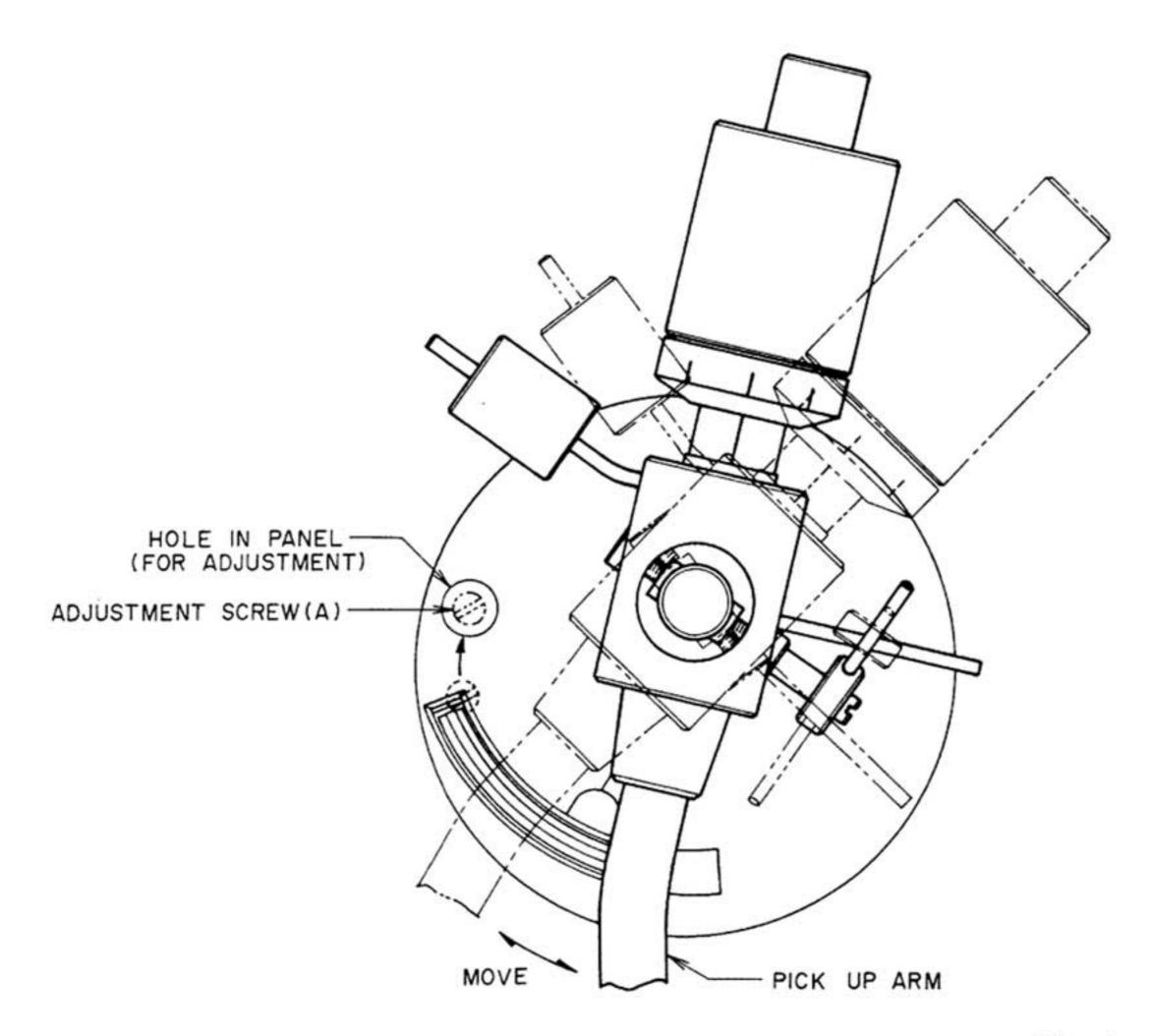


Fig. 1

Remove the rubber plug on panel toward the rear part of the pick up arm. When the pick up arm is moved as shown in Fig. 1, Adjustment Screw (A) becomes accessible through the hole from which the rubber plug has been removed. When Adjustment Screw (A) is turned clockwise, stop position will be advanced and when turned counter-clockwise, stop position will be delayed.

Use a 30 cm record as standard and adjust stop position as follows with Adjustment Screw (A).

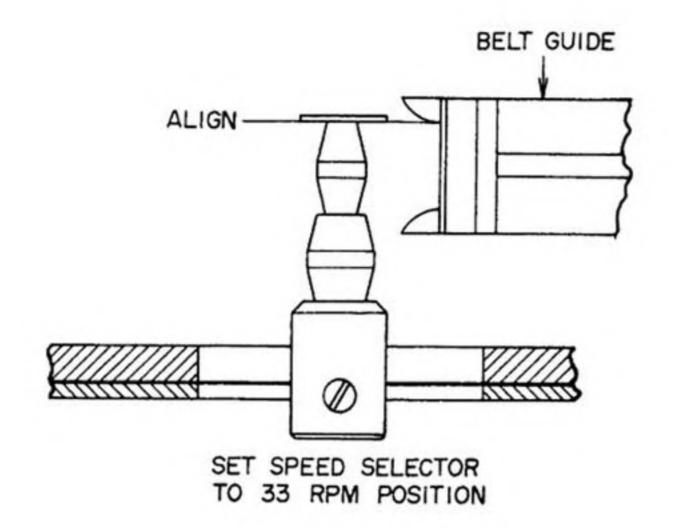
For adjusting toward outer circumference turn clockwise.

For adjusting toward inner circumference turn counter-clockwise.

If only proper inner or outer adjustment can be attained, this means that adjustment at some other place is necessary. After source of trouble has been located and corrected, re-adjust adjustment screw (A).

- NOTE: 1. Because of one adjustment screw only, stop position of 30 cm 17 cm record will be the same.
 - 2. After adjustment, be sure to re-install rubber plug.

V. CYCLE CHANGE (MOTOR PULLEY REPLACEMENT)



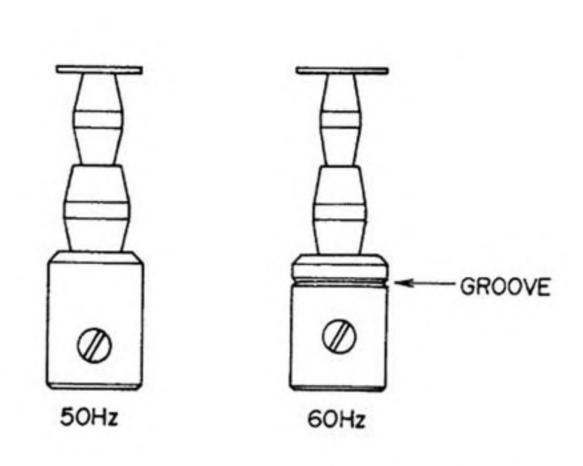


Fig. 2

50 Hz and 60 Hz cycle change is effected by changing the motor pulley.

50 Hz and 60 Hz differentiation can be determined by the groove on the 60 Hz pulley. While viewing horizontally as shown in Fig. 2, install so that the lower part of the motor pulley brim and the lower part of the belt guide are lined up. Set speed selector to 33 rpm position, install the belt and switch on power. If a rumbling noise from the belt can be heard and speed changing is not smooth, adjust installation position of motor pulley.

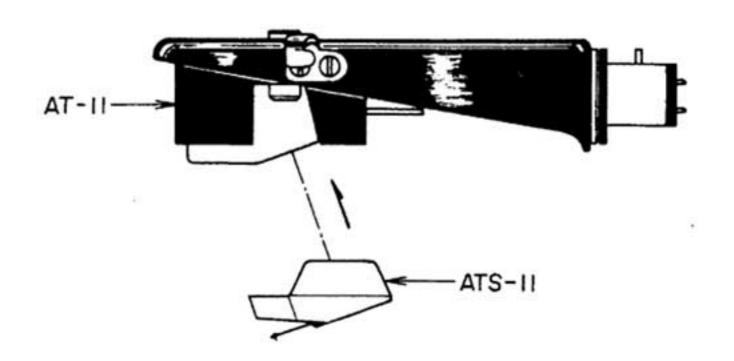


Fig. 3

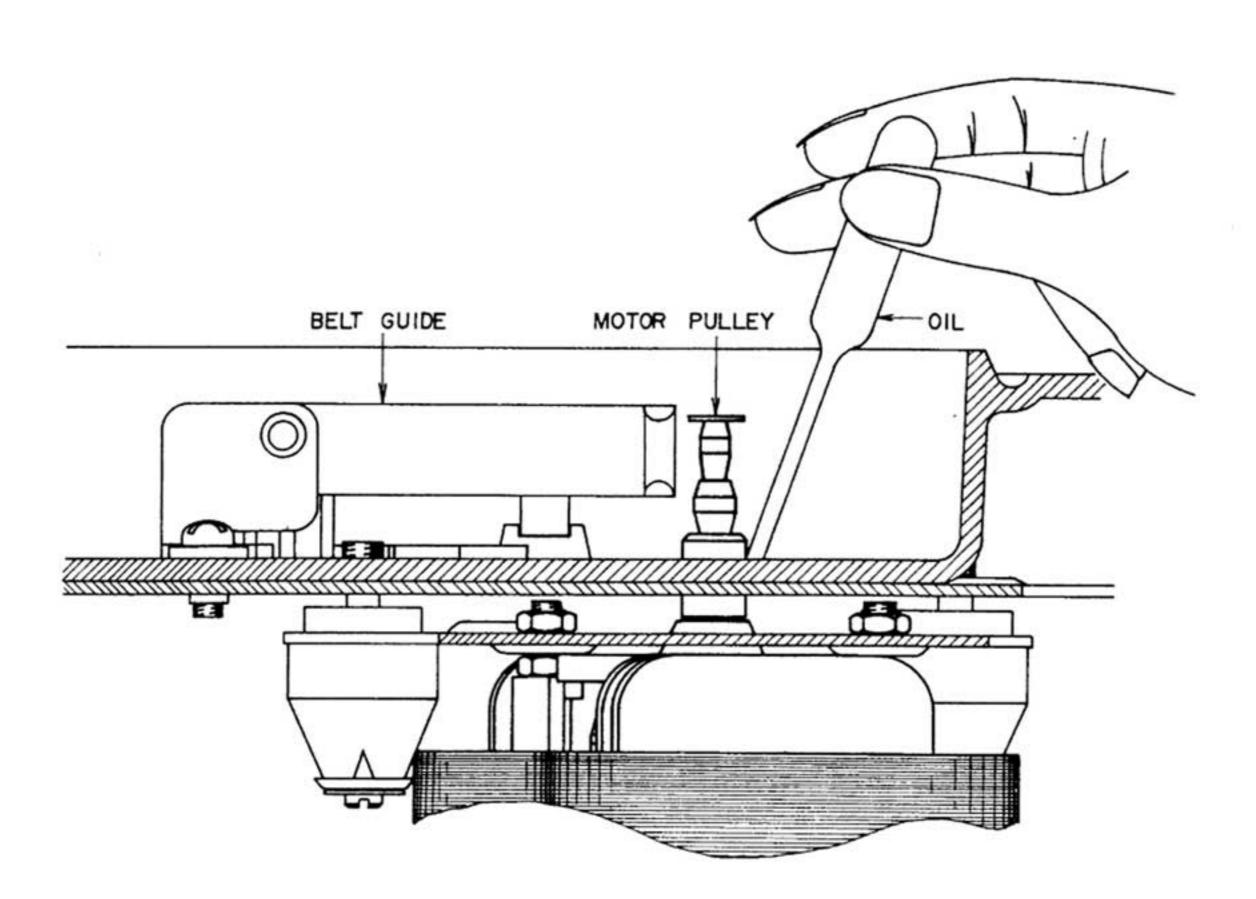


Fig. 4

1. LIFE OF STYLUS

The lifetime of stylus is about 500 hrs. of use (both sides of about 500 30 cm LP records). If the stylus becomes old, because the record will be damaged and tone quality will become inferior, be sure to replace as soon as is needed. If records on which dust is allowed to accumulate are played, the stylus will wear especially fast and the record surface will be scratched. Therefore, please be sure to keep record clean by wiping and cleaning the record grooves with water soaked gauze. Also if dust adheres to the turntable mat, as this will cause the record to become dirty easily, the mat should also be kept clean.

2. STYLUS CHANGE

When replacing stylus, be sure that the stylus (ATS-11) is inserted properly in the direction of the arrow mark shown in Fig. 3 and fits into cartridge firmly. Use only model ATS-11 stylus which is for use in model AT-11 cartridge.

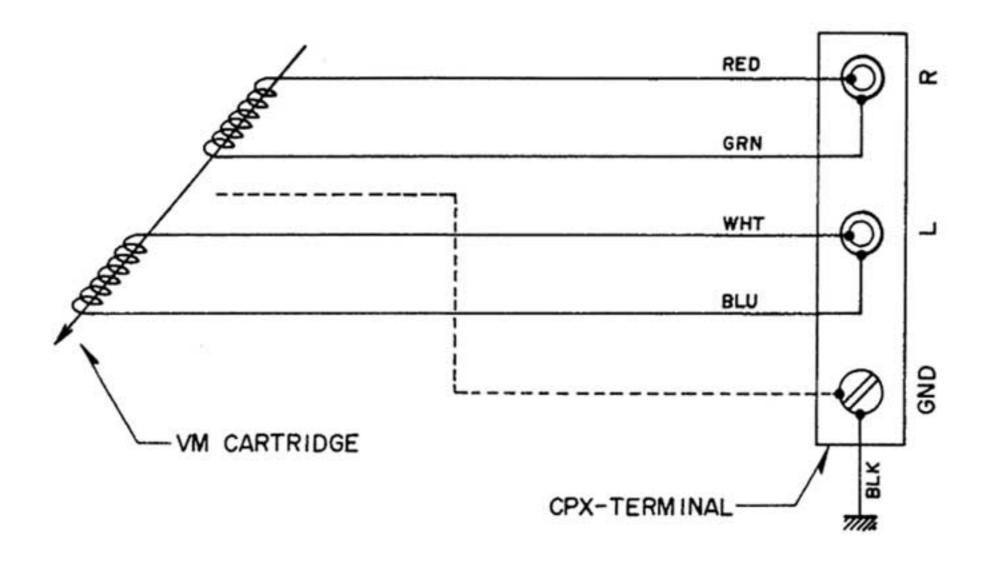
3. LUBRICATION

Because for rotating parts and parts which rub together during operation, oilless metal and thebest grease or oil is used, your machine will not need lubrication for some time. About once per year use standard accessory player oil, and apply one ort wo drops to the motor shaft as shown in Fig. 4. Incase you do not have player oil, use #60 spindle oilor a high grade machine oil. If used continually for business purposes, etc., oil about once or twice per month.

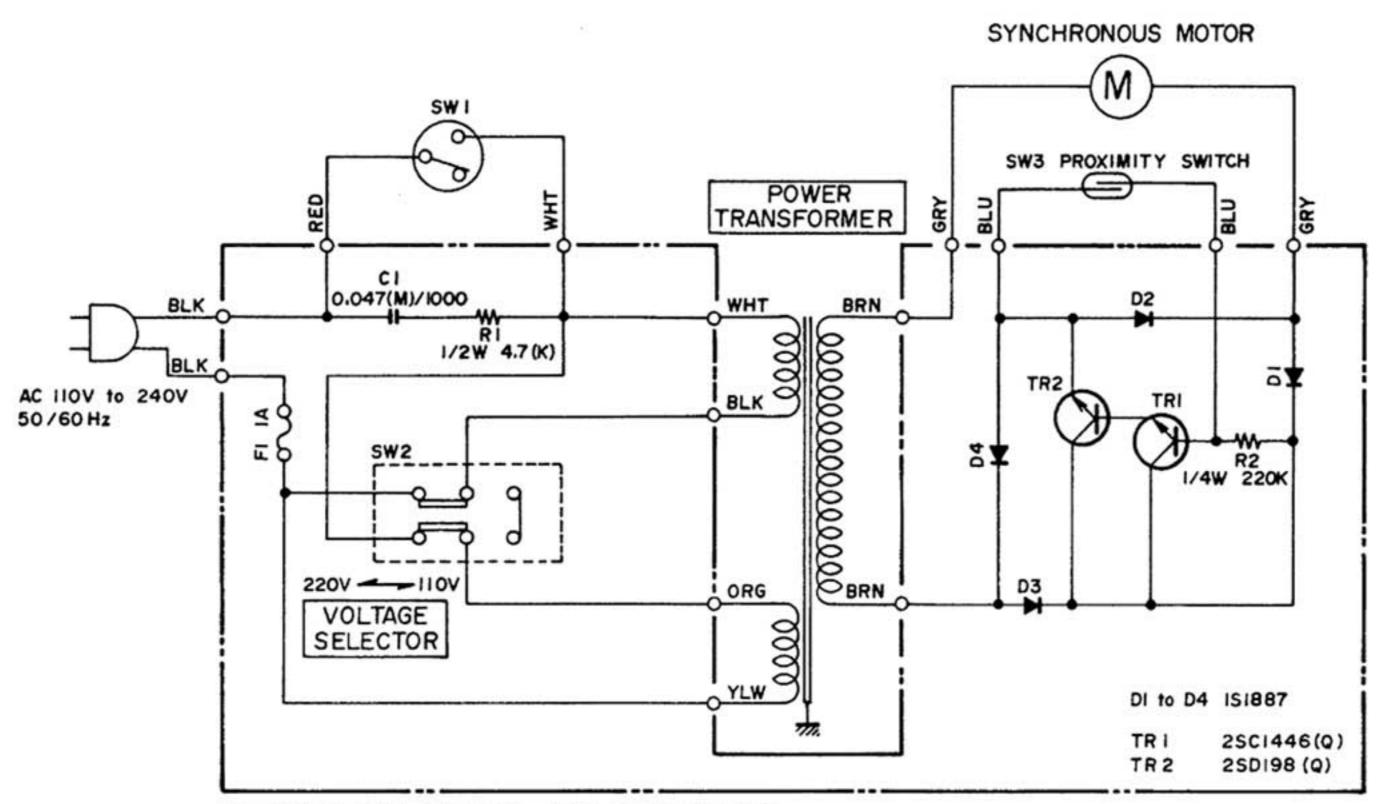
CAUTION: Following lubrication, because oil will adhere to the drive belt and pulley and to the turntable etc., wipe the oil off of these parts with a cloth to which a little carbon tetrachloride or thinner (benzine can be also be used) has been applied.

VII. BLOCK DIAGRAM

1. CARTRIDGE

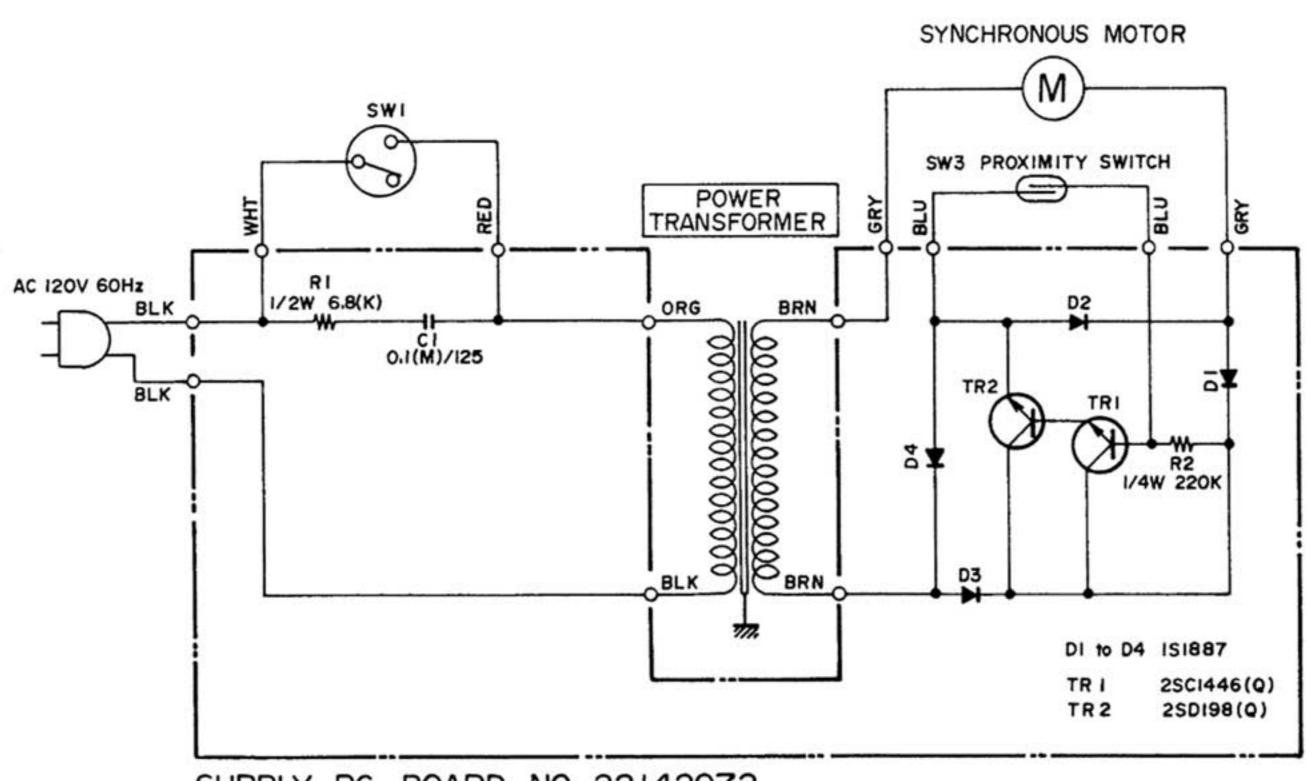


2. SWITCHABLE MODELS

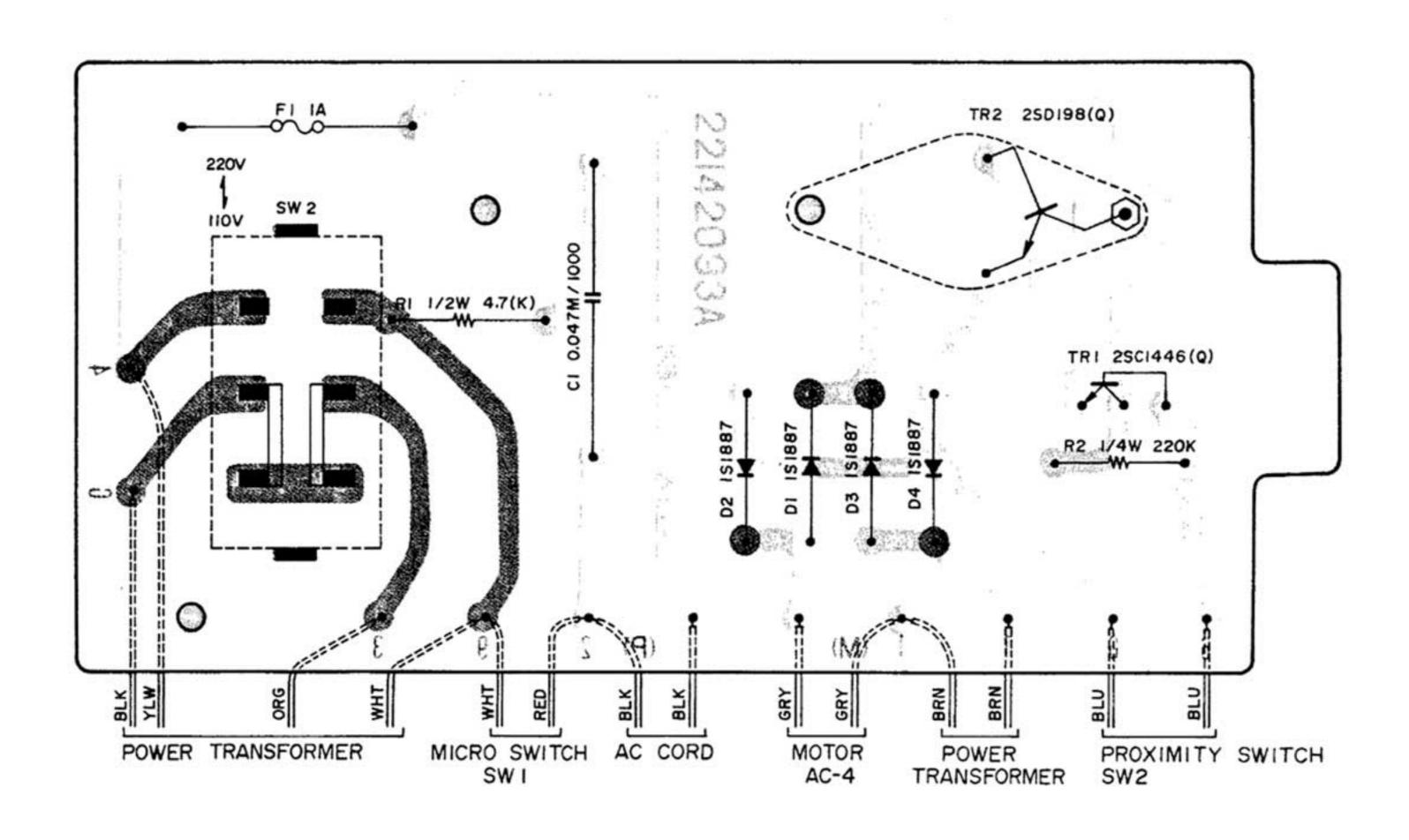


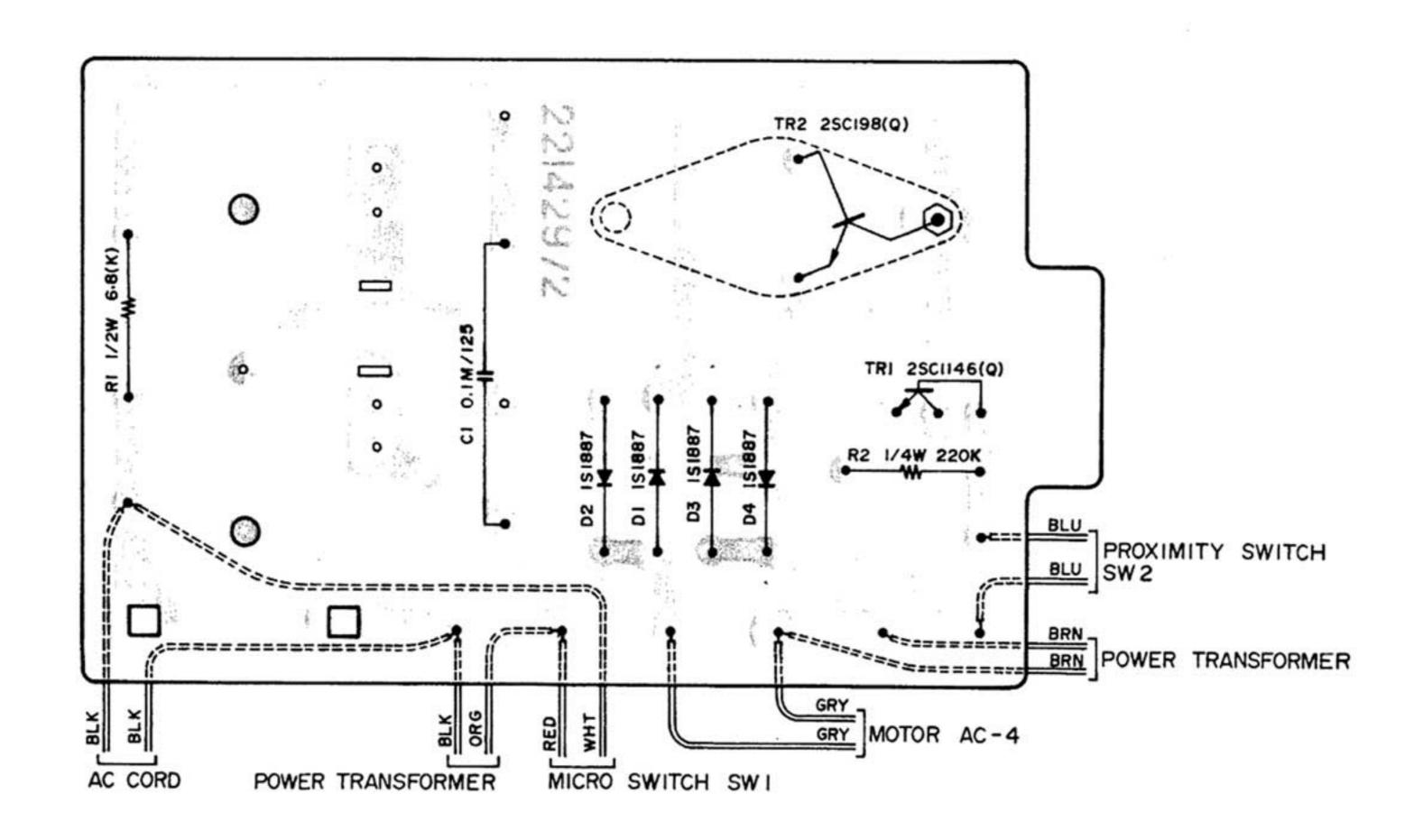
SUPPLY P.C BOARD NO. 22370139

3. CSA MODELS

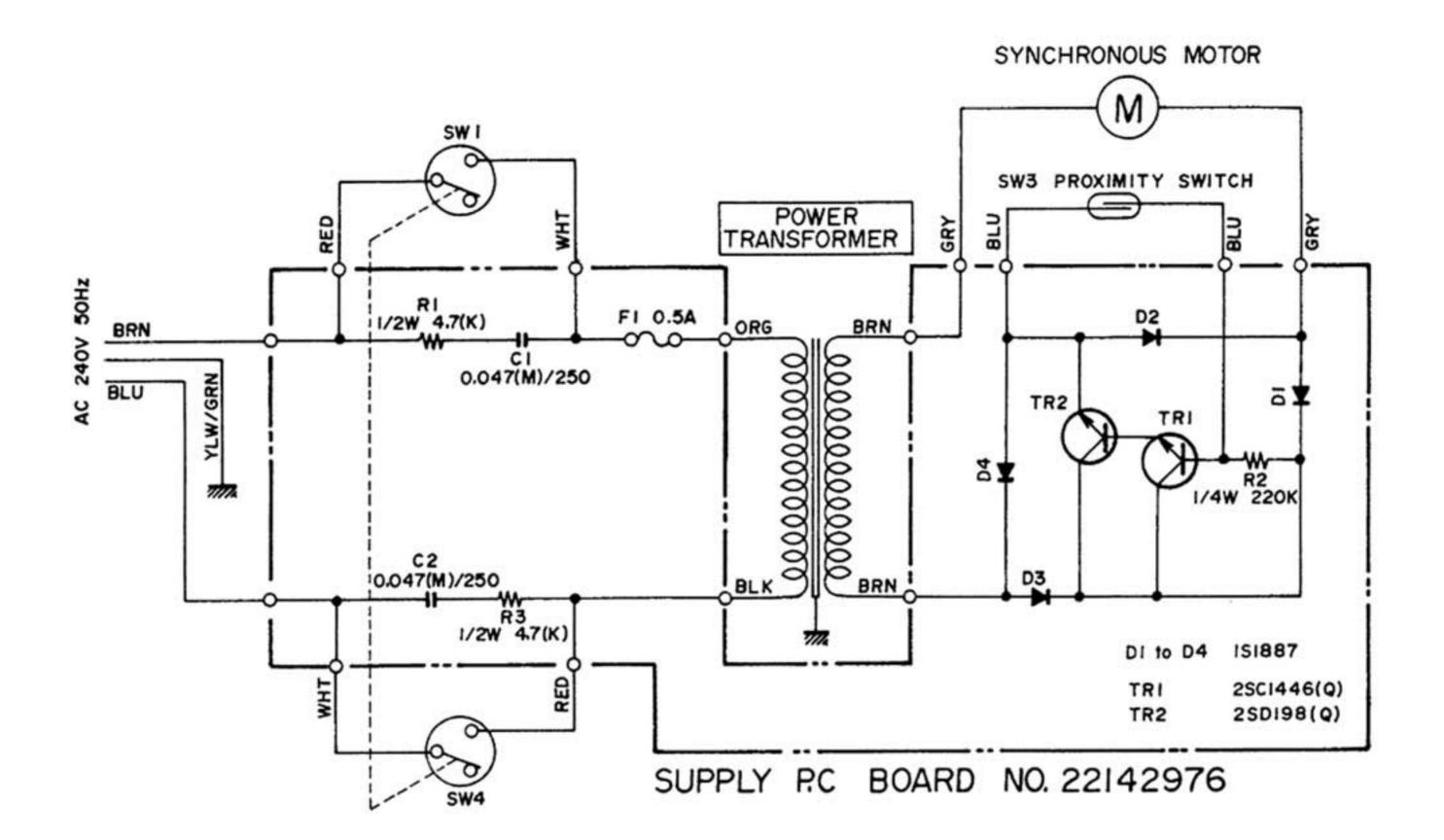


SUPPLY P.C BOARD NO. 22142972

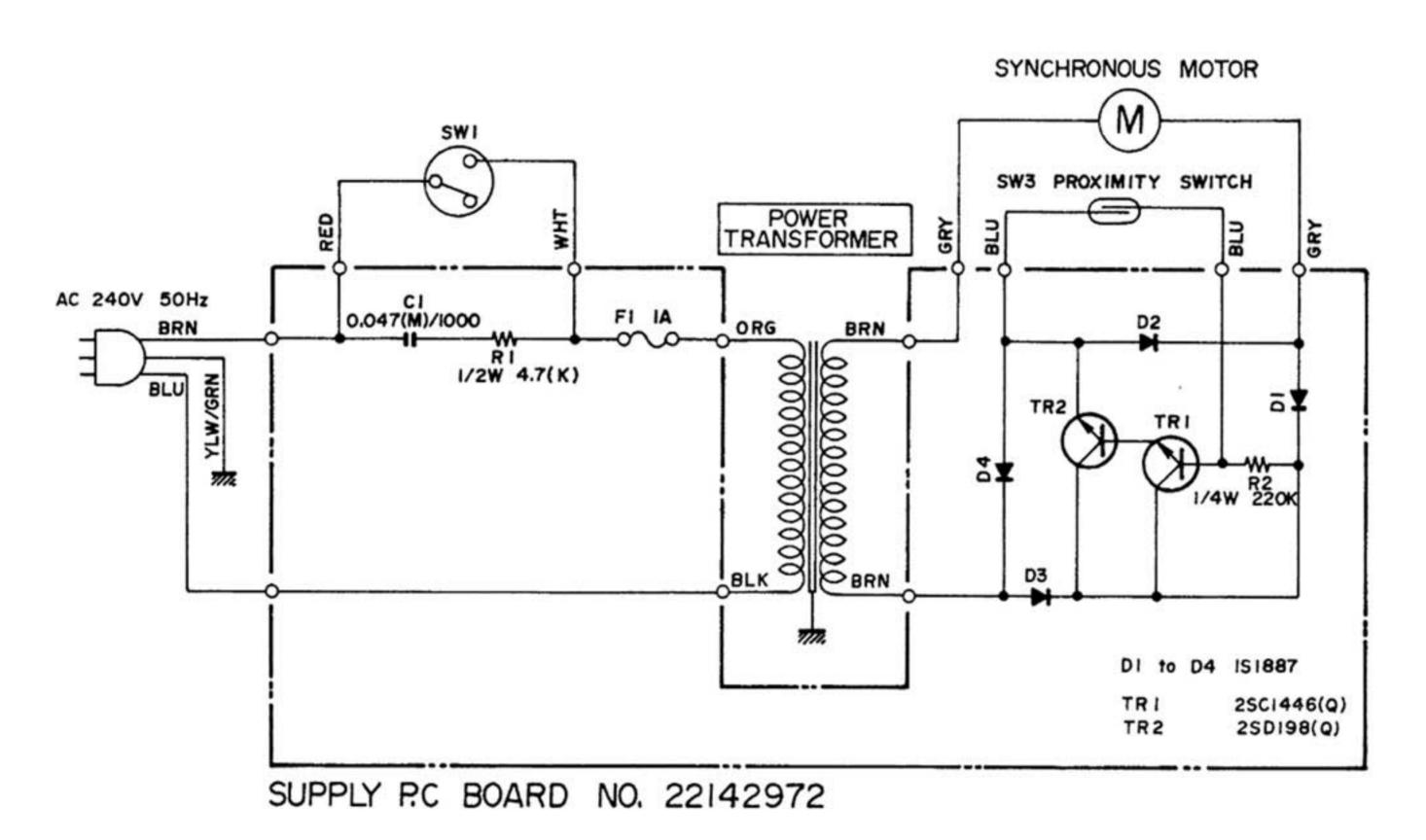




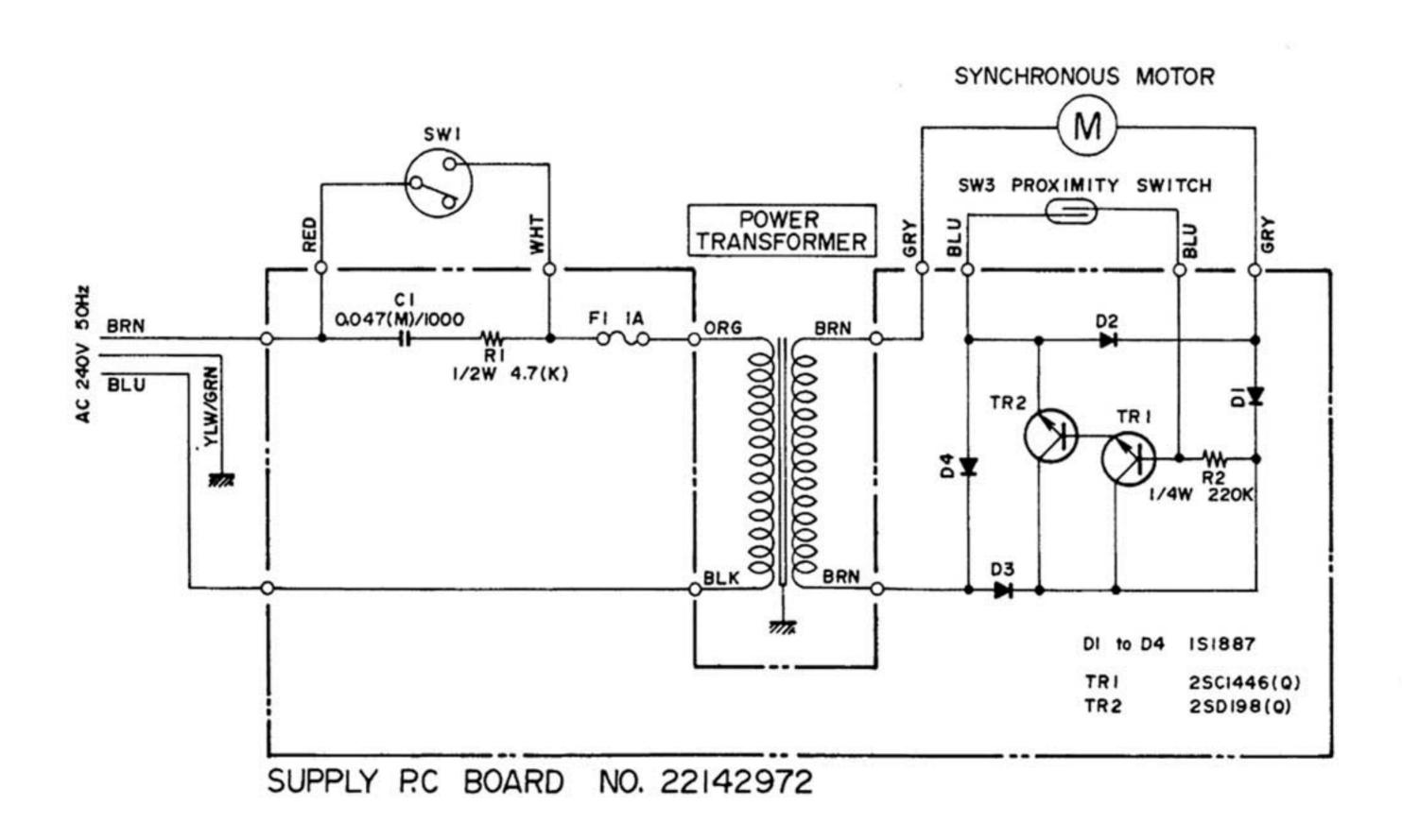
4. BSI MODELS

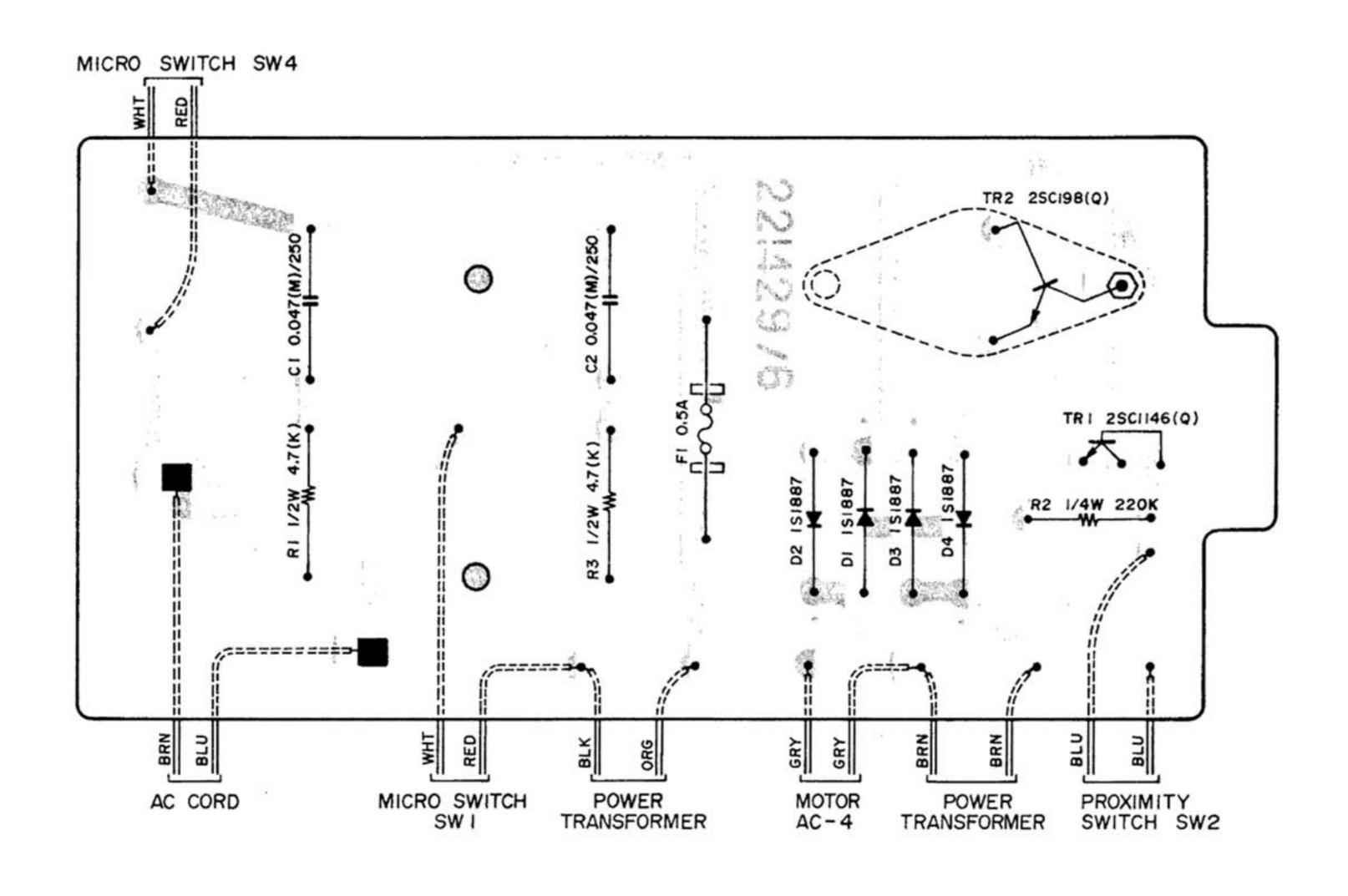


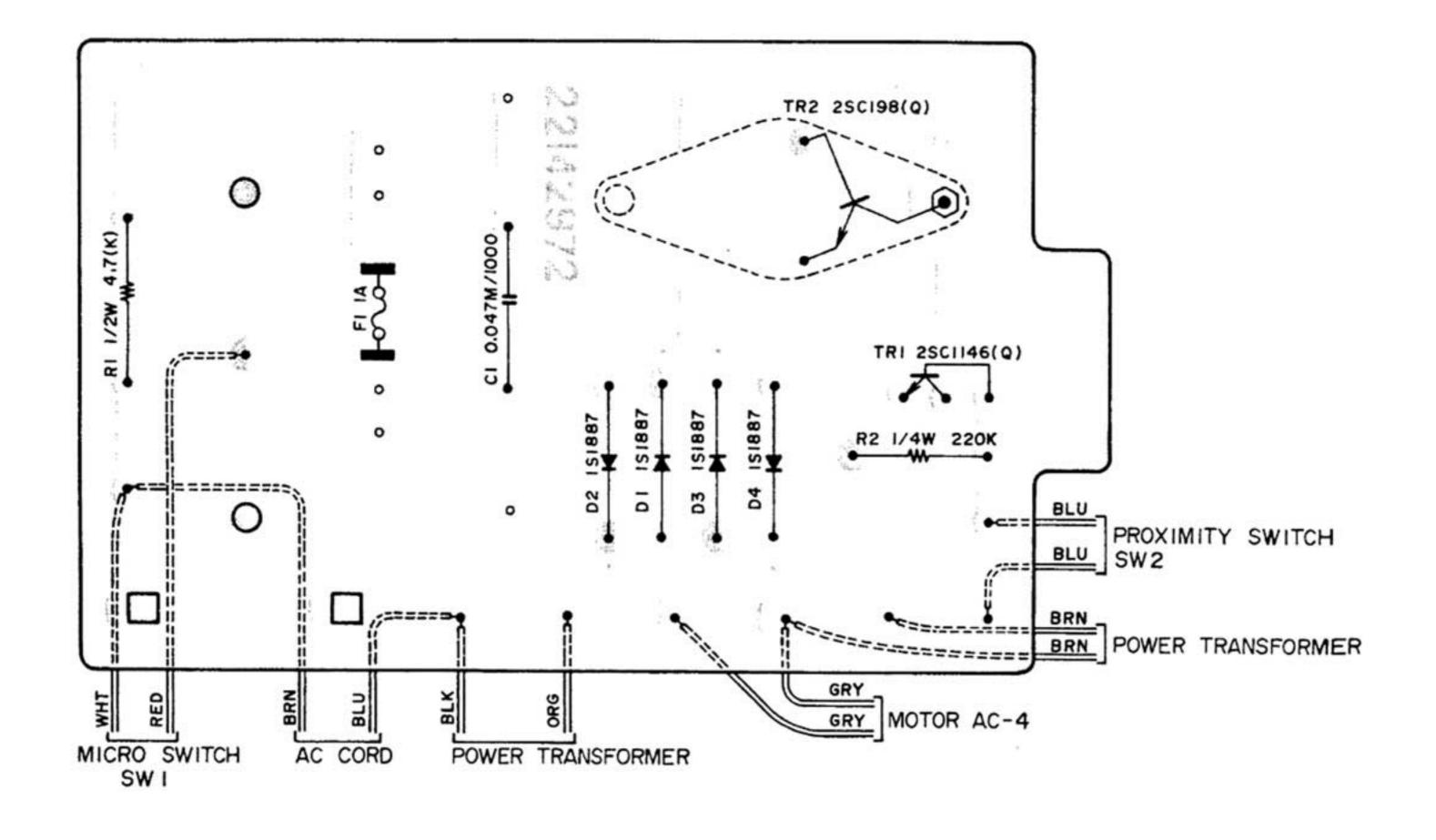
5. AST MODELS



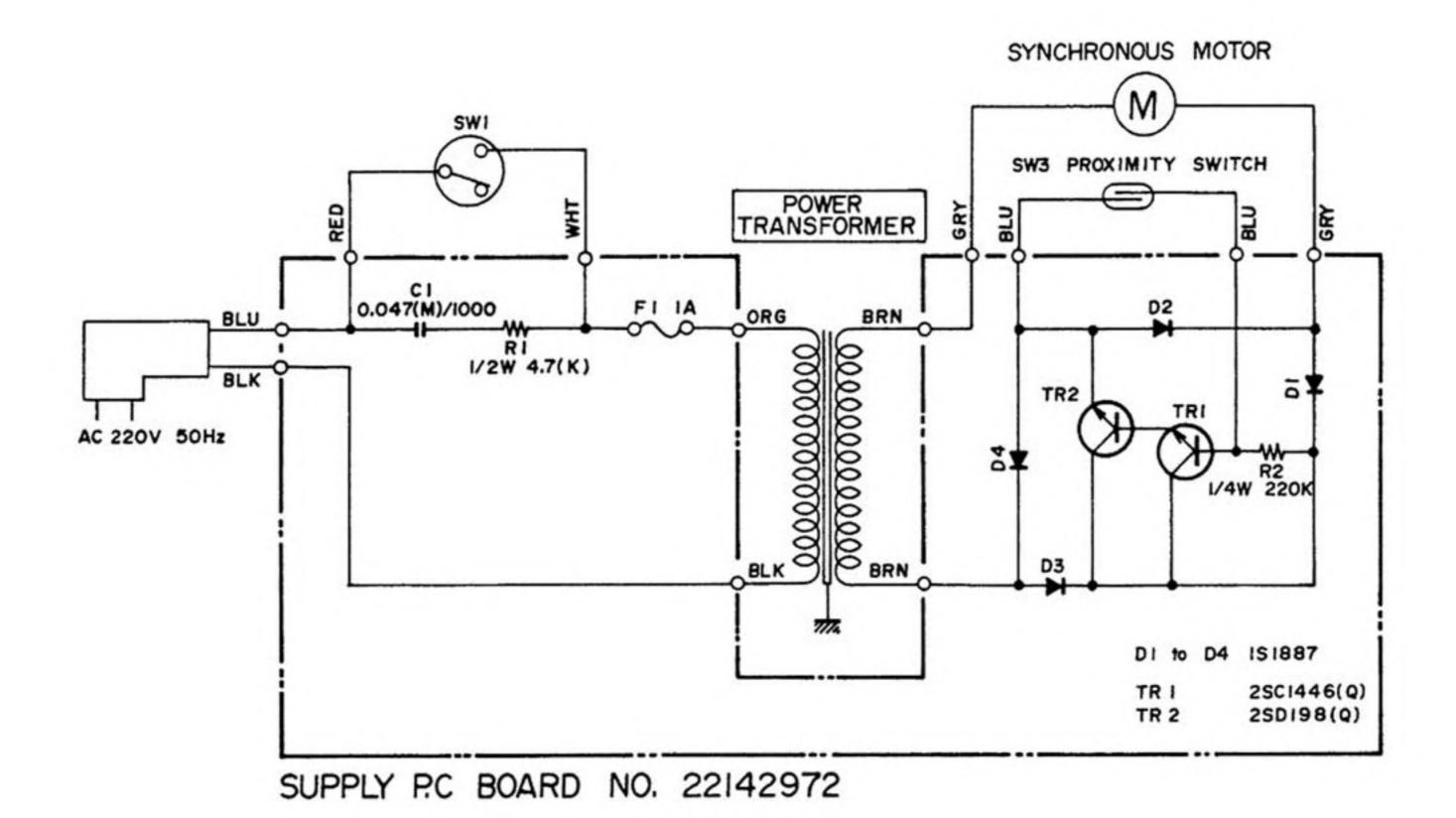
6. OTHER MODELS

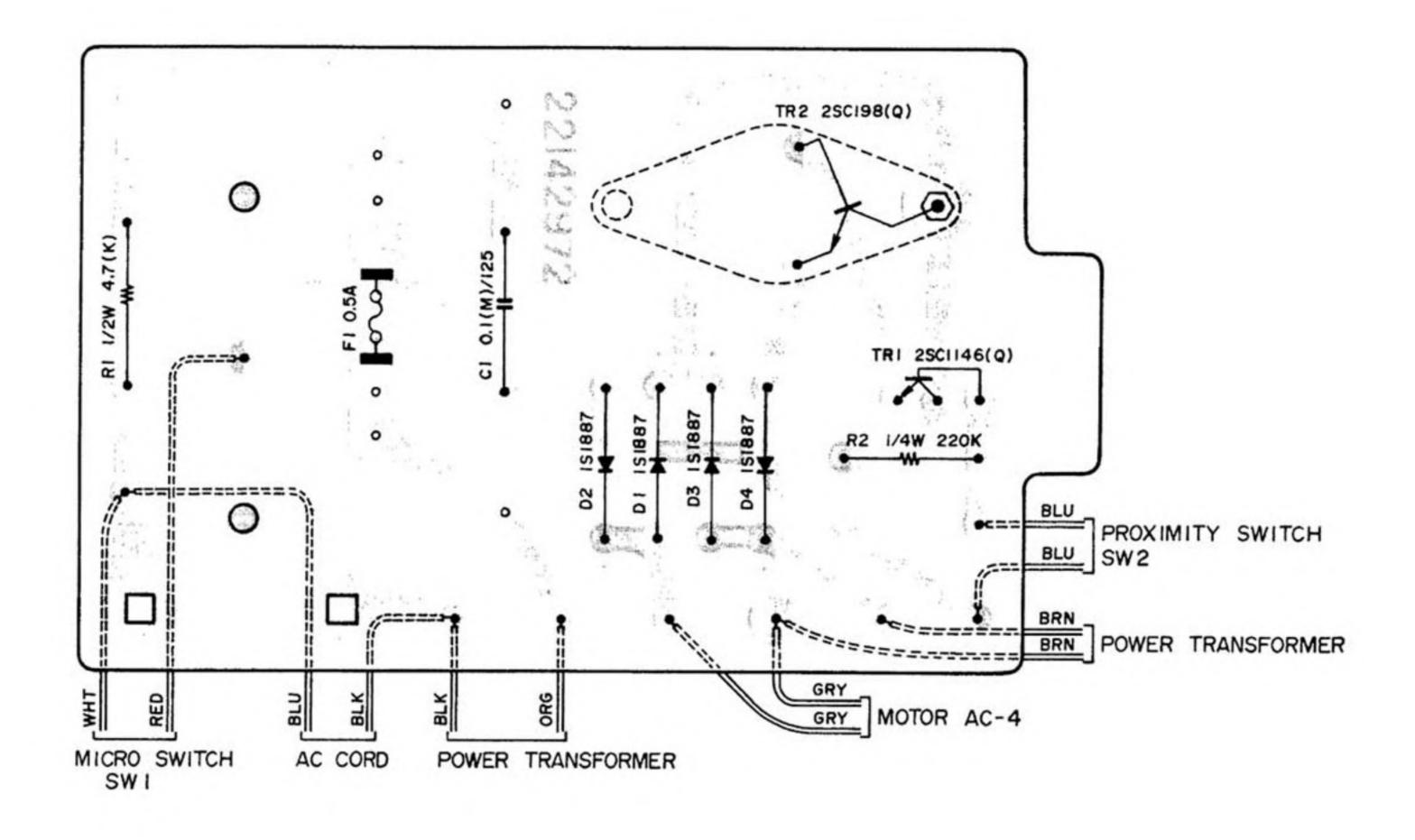






7. CEE MODELS





VIII. TROUBLE SHOOTING CHART

Condition	Explanation	Confirmation	Source	Countermeasure
Poor tone quality	1. Distortion (When using new record)	Distortion persists after changing stylus and confirming normal pick-up arm operation. (Amp. Speaker normal)	Faulty cartridge.	Replace cartridge
		 Crackling sound even when playing new record. Especially vague at high range. 	Worn stylus.	Replace stylus.
		 A crunching sound exists and there is a sudden change in sound level. Also the level of right and left differs greatly. 	Bent stylus.	
		4. Sound is vague or distortion exists.	Dust adhering to stylus.	Clean stylus.
		5. Stylus jumps.	Insufficient pressure.	Readjust stylus pressure.
		6. Stylus sinks to far into cartridge body during record playback.	Too much pressure.	
	2. Hum noise.	 When pick up arm or player body is touched with your hand, hum noise increases. 	Faulty grounding between cartridge and amp. input or turntable and amp.	Replace or repair ground wire.
		2. A hum is emitted from one channel (or both channels).	Faulty pin plug Connection.	Connect perfectly
		3. Hum is altered by changing posi- tion of lead wire from pick-up.	Lead wire from pick-up and source wiring is too close together.	Move lead wire to obtain minimum hum.
	3. Left/right sound separation poor.	Using a monaural record, left/right sound scatters and is not emitted from the center.	The plus and minus terminals are reversed on one side at cartridge out-put pin and shell pin connection or faulty cartridge.	Connect plus and minus correctly. Replace cartridge.
	4. Distortion at one channel only.	Observe pick-up arm head during record performance.	Bent pick-up head.	Replace pick-up arm.
		2. After pick-up arm side pressure and zero balance adjustment, pick-up arm does not move smoothly by means of inside force canceller.	Pick-up arm rotating shaft faulty.	Replace pick-up arm assy.
		 Pick-up arm heavy or catches when moved to left and right by hand. 	Installation of pick-up plate assy faulty.	Correct pick-up plate installation height as specified.
	5. No sound	Check pin plug cord lead-through with tester.	Disconnected or broken wire.	Replace pin plug cord.
		2. Check cartridge terminal DC resistance with tester. (L ch, R ch)	Broken or shorted wire inside cartridge.	Replace cartridge.
Unusual noise	Mechanical noise (direct	1. Belt contacting belt guide.	Faulty motor pulley height.	Adjust height of motor pulley.
	noise)	2. Observe motor pulley during revolutions.	Variation in motor pulley.	Replace motor pulley.
		3. During revolutions, vibration exists or noise is audible.	Faulty motor.	Replace motor.
		4. During motor rotation, if arm or table mount is touched with your hand, vibration is evident.	Faulty installation of motor or variation in motor cushions.	Adjust motor installation position. Replace motor cushion.

Condition	Explanation	Confirmation	Source	Countermeasure
	2. Electrical noise. (from speaker)	Sometimes shock noise and hum is emitted. Interference when lead wire is moved or no sound periodically.	Lead wire leak or lead wire is broken or disconnected. Faulty pin plug cord connection.	Repair or replace lead wire. Make proper pin plug cord connection.
		2. Interference when upper part of shell is lightly tapped.	Defective cartridge. Faulty cartridge terminal connection.	Replace cartridge. Make proper lead wire connection.
		3. Vibration and noise from motor during revolutions.	Faulty motor.	Replace motor.
Turntable does not rotate.	1. Electrical circuit problem.	Check Supply P.C Board fuse with tester.	Fuse blown.	Replace with proper fuse
(or rotation is unstable)		 Check Proximity switch lead- through with tester. 	Shorted.	Replace Proximity switch.
		 Check power switch lead- through with tester. 	Open.	Replace micro switch.
		4. Check main lead wires with tester.	Disconnected or broken lead wire.	Replace or repair lead wire.
		5. Check motor coils with tester.	Disconnected or broken wire.	Replace motor.
		6. When rotor is rotated by hand, it catches or rotation is not light and smooth.	Insufficient oil.	Lubricate rotor shaft and clean.
	2. Table shaft out of order. When turntable in rotated by har seems heavy. Unusual noise and too much ratt (with belt removed).		Insufficient oil.	Lubricate table shaft and bearing. Replace table shaft.
	3. Speed change mechanism defective.	Slippage between belt, motor pulley and turntable.	Worn out belt. Oil adhering to belt.	Replace belt. Clean with carbon tetra- chloride or alcohol.
		2. Belt does not run on middle of motor pulley (drum-like part).	Faulty motor pulley height.	Adjust motor pulley height and motor slant.
		3. Belt rubbing noise.		
	4. Revolutions too slow. (or uneven)	Check for variation in shape of belt and whether dust is adhering to belt, motor pulley and turntable.	Variation of belt. Dust.	Replace belt. Clean with carbon tetra- chloride or alcohol.
peration of nanual lifter	1. Lifting or lowering takes	1. Observe plate spring.	Variation in shape or bent.	Repair or replace.
ulty. (at record erformance)	place too fast when manipulat- ing the lifter manually.	2. Check lifter shaft silicon oil.	Insufficient silicon oil.	Apply silicon oil (200000CS).
	2. Lifting or lowering is too	 Check strength of pressure coil spring. 	Pressure coil spring has lost strength.	Replace pressure coil spring.
	slow when manipulating the lifter manually.	2. Check lifter silicon oil.	Too much oil.	Wipe off oil.
osition of arm ato stop faulty.	1. Too soon.	Auto stop takes place too soon (17 cm, 30 cm record).	Faulty adjustment.	Use a 30 cm recorda s standard and adjust by turning adjustment screw (A) counter-lockwise.
	2. Too late.	Auto stop takes place too late (17 cm, 30 cm record).	Faulty adjustment	Use a 30 cm recorda s standard and adjust by turning adjustment screw (A) clock-wie.

Condition	Explanation	Confirmation	Source	Countermeasure
	3. Auto stop of either 17 cm or 30 cm record sooner or later than normal auto stop.	When the bottom panel is removed and the movement of the aluminum plate (switch holder plate) on which the Proximity Switch is installed is changed by manipulating the change lever, the stopper screw sticks to part of the square hole in the aluminum plate and does not move freely.	Faulty connection pole or adjustment.	Replace connection pole and also change holes (choose the most suitable of the 3 holes) at tip of aluminum plate to which connection pole is connected.
	4. Specified stop position.	30 cm, 25 record operation begins between 115ϕ and 109ϕ (center 56R). 17 cm record operation begins between 106ϕ and 98ϕ (center 51R).		

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4.1

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SECTION 2

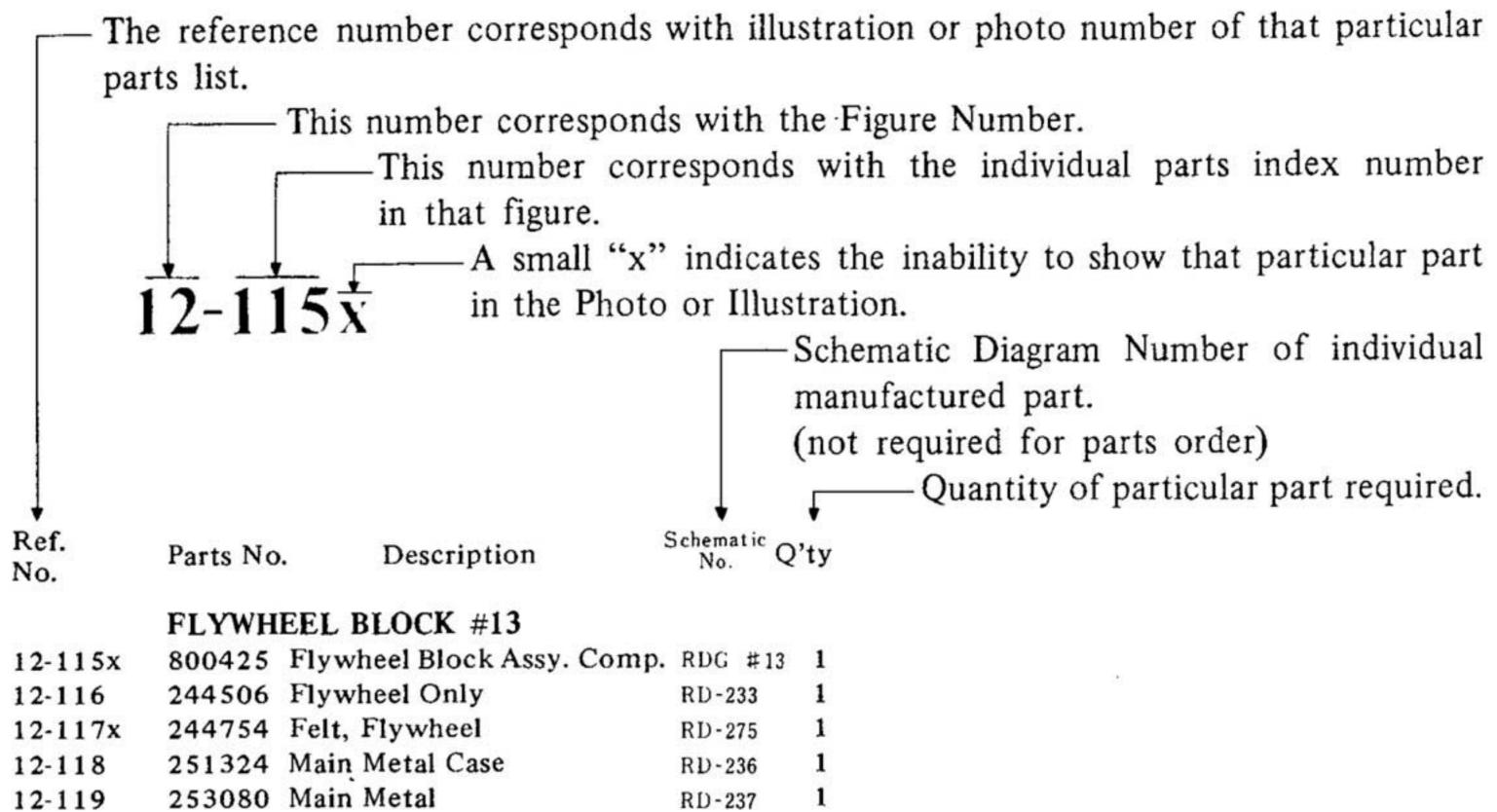
PARTS LIST

TABLE OF CONTENTS

1.	ASSEMBLY BLOCK (1)	23
2.	ASSEMBLY BLOCK (2)	24
3.	CABINET BLOCK	27
TAID	EV	

HOW TO USE THIS PARTS LIST

- 1. This parts list is compiled by various individual blocks based on assembly process.
- 2. When ordering parts, please describe parts number, serial number, and model number in detail.
- 3. How to read List



- 4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of Components of the Schematic Diagram or Service Manual.
- 5. Please utilize separate "Common List for Service Parts" for Resistor Parts orders.
- 6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
- 7. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.

It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).

8. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

1) ASSEMBLY BLOCK (1)

2) ASSEMBLY BLOCK (2)

,		(1)			2)	ASSEMB	LI BLOCK (2)		
Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
	CABINET	BLOCK				CADINET	DI OCK		
1-1	TP710021	Rubber Cap	2000176000	// E ≠ 6	2.	CABINET			
1-2	TP720257		2088176800	. 15	2-1	ZG709132			4
100 T	11 /2025 /	Rabbel Cashion	2275683000	2	2.2	70200143	(Cone Type) AP-001/C	2070382700	1
	SPEED CH	ANGE BRACKET BLOCK			2-2	ZG709143	-1		
1-3	BZ709323				0.7	707001	(Cone Type) AP-001/C	2070382800	1
10	DE 107323	The state of the s	0074600000		2-3	ZG709154	F 6 (0) 22.2022		
1-4	TP709334	AP-001/C			1	70	(Cone Type) AP-001/C	2070382900	1
1-5	MB719008	Guard AP-001/C Belt AP-003	2074051900	-	2-4	ZG709165			
1-6	BM709356		2072861100	1		20	(Cone Type) AP-001/C	2070383000	1
1-0	DIM 709330				2-5	ZS712135	Tapping Screw, pan head		
1 7	MDZ00201	AP-001/C		1			40x8		4
1-7	MB709391		2088172200	3	2-6	TP720314	Cushion	2088180700	4
1-8	MR709402			1	2-7	TP720268	Holder Plate	2074690000	1
1-9x	MR709413	,	2071675100	1	2-8	ZS720281	Screw, w/washer 3×10		
1-10	MS709424	B ()				40176-2400 SPA 1 60 PURES 1 555 FA	(Special)	2079477900	1
			2076463000	1	2-9	TP720270	Rubber Pad A	2088180400	2
1-11	MS709435	Motor Hang Shaft (B)			2-10	TP720292	Rubber Pad B	2088180500	1
		AP-001/C	2076463100	2	2-11	TP720303	Rubber Pad C	2088180600	1
1-12	TP709446	Cushion Holder AP-001/C	2074672100	3					
1-13	ZW712236	'E' Ring 4M		3		SPEED CH.	ANGE BRACKET BLOCK		
				6457	2-12	BZ709312			
	PU ARM BI	LOCK					Block Comp. AP-001/C	2073564800	1
1-14	TP709457	PU Arm AP-001/C	2073174600	1	2-13	ZG718918	Turn-over Spring AP-003	2277172000	1
1-15	BL719381	Lifter Bar Block Comp.		VI	2-14	ZS712225	Tapping Screw, pan head		-
		AP-003	2076165700	1			30×8		2
1-16	MS709468	Lifter Shaft AP-001/C	2076469000	1	2-15	SB631157	Push Button E	CW-2014	2
1-17x	ZG709470	Cramp Coil Spring AP-001/C	2070381800	1				0 11 2011	-
1-18x	ZW712361	'E' Ring 3M		1		RECORD S	ELECT CAM BLOCK		
1-19	BZ709481	PU Rest Block Comp.		V-722	2-16	TP709558	Connecting Pole AP-001/C	2076468800	,
		AP-001/C	2073871100	1	2-17	TP709560	SW. Holder AP-001/C	2074687000	1
1-20	TP719594	Pick-up Stand AP-003	2073563700	1	2-18	ZG709571	Pull Coil Spring AP-001/C		1
1-21x	ZS712372	Screw, cone point			2-19	ZW713586		227178200	1
		Flat Socket 40x10		1 1	2-20	ZS715228	Tapping Screw, pan head	2270351000	2
1-22x	ZS712653	Tapping Screw Pan head				20713223			
		30×10		3	2-21	ES711786	Reed SW.	001/60000	
		*			2-22	BD709582	PU Plate Block Comp.	221463220 0	1
	TURN TAB	LE BLOCK		1	2 22	DD 709362	mi - Karama i maranani manananan nanan nanan maranan na - Mara	0005100500	
1-23	TP709492	Turn Table AP-001/C	2072365300	1	2-23	ZS715230	AP-001/C	207517950 0	1
1-24	TP709503	Table Sheet AP-001/C	2072368600	1	2-23	23/13/30	Screw, countersunk head		
1-25	MV709514	Table Shaft Holder AP-001/C	2072568300	1			26×8 (PC)		1
1-26	ZW719043	Special Nut AP-003	2079663100	1		EL ECTPIC	AL PARTS BLOCK		
1-27	ZW712697	Special Washer 101x170x10	2073003100	,	2-24				
1-28	ZS712765	Screw, pan head 30x4x4		t	2-24	EJ709593	Output Terminal Plate		2022
1-29	MS709525	Table shaft AP-001/C	2076468900	1	2-25x	EW700604	AP-001/C	221623500 O	1
	THE CONTRACT SCHOOL SECTION SE		2070400500	*	2-25	EW709604 TP709727	PU Cord AP-001/C	221643470 O	1
	LIFTER LE	VER BLOCK		1	2-20		Spacer AP-001/C	227528940 O	4
1-30		Lifter Lever Block Comp.			2-27	ZS715241	Tapping Screw 3x16BR	0.W-1000-0.0000 000 1000 00	4
		AP-001/C	2075179400			MB718885	Cushion Rubber AP-003	2088161000	4
1-31	SK715533	Knob		2	2-29	BT709751	Power Trans.	5000000000	
1 01	511113333	IXIIOO	2283540100	2	2 20	DTTTOOTCO	(U/T, 110/220)/KMA	2222332800	1
	RECORD SE	ELECT CAM BLOCK			2-30X	BT709762	Power Trans.		
1-32		Record Select Cam Block			2 21	DTTTOOTTO	(U/T, 240/50)/AST, BSI	2222334100	1
1 02	D2107541		000500000	. 1		BT709773	Power Trans. CEE (SEMKO)	2222334300	1
		Comp. AP-001/C	2075772200	1	2-32x		Power Trans. CSA	2222334400	1
	ELECTRICA	L PARTS BLOCK		1	2-33	TP711011	Cord Retainer	2074679000	1
	기교도 전 경기 가장 내가 있는 아이를 하지 않는데 아니다.	Micro SW. AP-003	001400000			TP711022	Cord Retainer	2074682600	1
		M: 011/	2214633500	1	2-35	TP712001	Cord Stopper UL	2088167600	1
		Min all at again (non)	2214033600	1		TP712012	Cord Stopper 3 Core	2218512600	1
1-33X	E3709017	Micro SW. 5A 250V (BSI)	2214035100	2	2-37X	TP709795	Cord Stopper KMA, CEE		
							(SEMKO)	2218512900	1
					2-38	BA709828	P.C Board Comp. (U/T,		
							110/220)/KMA AP-001/C	R-030207	1
					2-39x	BA709830	P.C Board Comp. (U/T,		
							240/50)/AST AP-001/C	R-030227	1
					2-40x	BA709841	P.C Board Comp. CSA		
								R-030226	1
					2-41x	BA709852	P.C Board Comp. CEE		
							170	R-030225	1
					2-42x	BA709863	P.C Board Comp. BSI	The second secon	10201
							A.P-001/C	R-030228	1
					2-43	ET709874	Transistor 2SD198 (Q)	2211444000	1
					2-44		Transistor 2SC1446 (Q)	2211444100	1
					2-45	[19일()] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1	Diode 1S1887	3756870000	4
					2-46			22370139900	1
					2-47			22370133300 2237014700A	1
						and a market proper		TO THE PARTY OF TH	-

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
2-48x	EC709920	Metalized/C. 0.047µF		
_		AC250V	2233011400	1
2-49	EF711966	Fuse 1A 250V	2214422400	1
2-50x	EF709931	Fuse 0.5A(T)	2214419200	1
2-51x	EJ709942	Fuse Holder AP-001/C	2216504700	2
2-52	ES712078	Seesaw SW.	2214649400	1
2-53x	ZW709953	Nut 3M (AP-001/C)		1
2-54x	ZW709964	Spring Washer 3M Small		
	2510 2910 1130 250 751 112	AP-001/C		1
2-55x	ZW709975	Spring Washer 3M Large		
		AP-001/C		1
2-56	EW711955	AC Cord 2.5M UL	2217619900	1
2-57x	EW711990	AC Cord 2.5M 3 Core, SAA	2217705100	1
2-58x	EW709986	AC Cord KMA AP-001/C	2217652400	1
2-59x	EW709997		2217706900	1
2-60x	EW710065	AC Cord CEE (SEMKO)		
		AP-001/C	2217652500	1
2-61x	EW710741	AC Cord AST	2217653100	1

3. PHOTO OF CABINET BLOCK



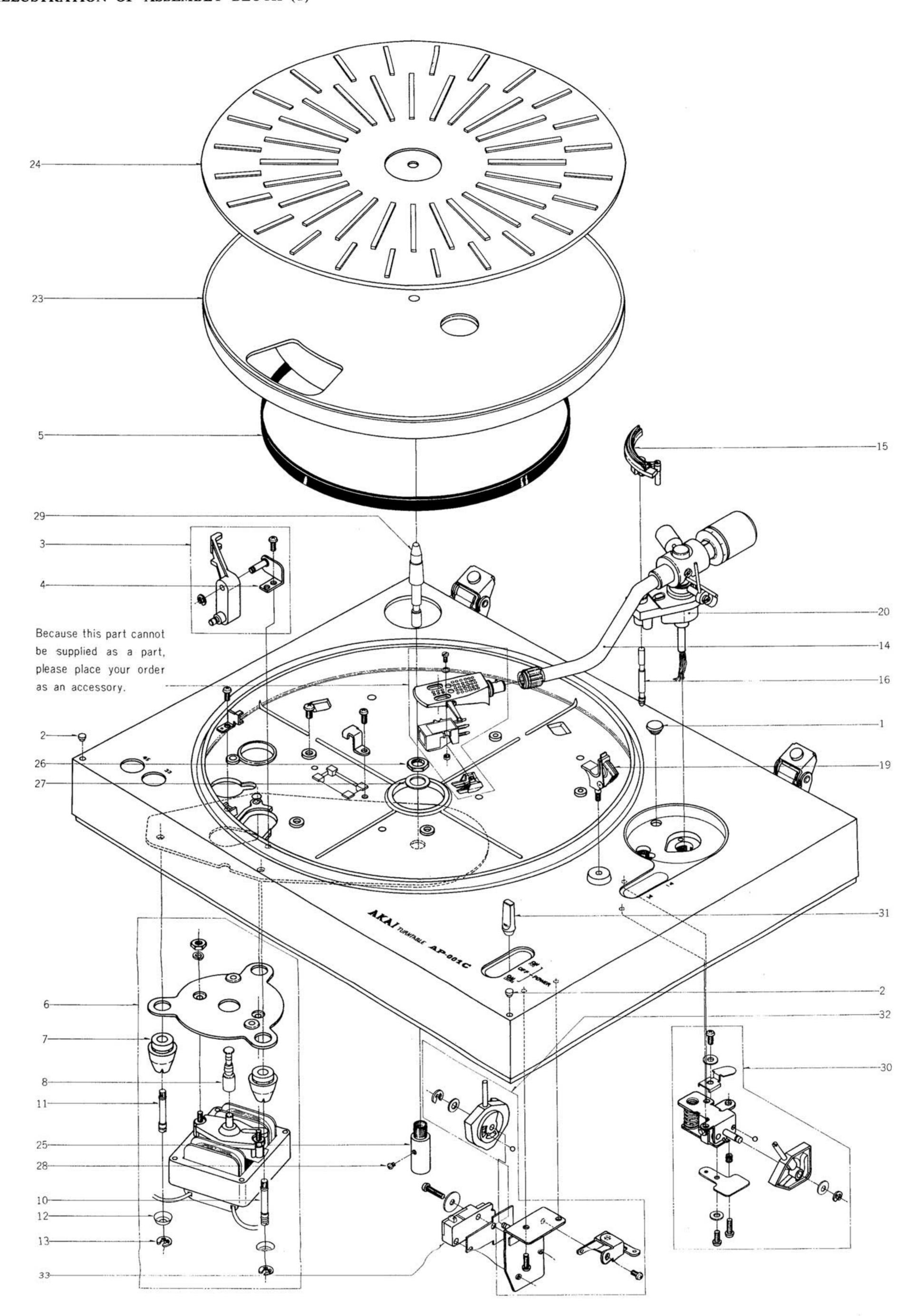
3) CABINET BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
3-1	BC709007	Cabinet AP-001	208477510)	1
3-2x	BC709121	Cabinet AP-001C	208477690)	1
3-3	TP719853	Hinge A AP-003	208616870)	2
3-4x	ZS711808	Tapping Screw, pan head		
		30×10		6
3-5	BC709233	Dust Cover Block Comp.		
		AP-001/C	208478210)	1
3-6	TP719897	Hinge B AP-003	208616880	2
3-7	ZS712214	Screw, oval countersunk		
		head 40×10		4
3-8	SP709244	Bottom Case AP-001/C	2084661110	1
3-9x	SA718762	Foot (Rubber) AP-003	228745120	4
3-10x	TP709266	Lock Plate AP-001/C	207546020	3
3-11x	ZS718637	Screw (Special), w/washer		
		4×12	2079592710	3
3-12x	TP720246	Vinyl Sheet	209436780	3

INDEX

Posts No.	Dof No	D4- N-	Def Ne	D. A. N.	D . C . N.	T			
Parts No. BA709828	2-38	Parts No.	Ref. No.	Parts No.	Ref. No.	Parts No.	Ref. No.	Parts No.	Ref. No.
BA709830	2-39x	ZG709132	2-1						
BA709841 BA709852	2-40x 2-41x	ZG709143 ZG709154	2-2 2-3						
BA709863	2-42x	ZG709165	2-4						
BC709007 BC709121	3-1 3-2x	ZG709470 ZG709571	1-17x 2-18						
BC709233	3-5	ZG718918	2-13						
BD709582 BL709536	2-22 1-30	ZS711808 ZS712135	3-4x						
Red Contract Contract Contract (Contract Contract Contrac	1-30		2-5						
BL719381 BM709356	1-15 1-6	ZS712214 ZS712225	3-7 2-14						
BT709751	2-29	ZS712372	1-21x						
BT709762 BT709773	2-30x 2-31x	ZS712653 ZS712765	1-22x 1-28						
BT709784	2-32x	ZS715228	2-20						
BZ709312 BZ709323	2-12 1-3	ZS715230 ZS715241	2-23 2-27						
BZ709481	1-19	ZS718637	3-11x						
BZ709547	1-32	ZS720281	2-8						
EC709907	2-46	ZW709953	2-53x						
EC709918 EC709920	2-47x 2-48x	ZW709964 ZW709975	2-54x 2-55x						
ED709896 EF709931	2-45	ZW712236	1-13						
EF711966	2-50x 2-49	ZW712361 ZW712697	1-18x 1-27						
EJ709593 EJ709942	2-24 2-51x	ZW713586	2-19	· <u>·</u>					
ES709806	1-34x	ZW719043	1-26						
ES709817	1-35x			2					
ES711786									
ES712078 ES718648	2-52 1-33								
ET709874	2-43			5 2					
ET709885 EW709604	2-44 2-25x								
EW709986 EW709997	2-58x 2-59x								
EW710065	2-60x								
EW710741	2-61x								
EW711955 EW711990	2-56								
MB709391	2-57x 1-7								
MB718885 MB719008	2-28 1-5								
MR709402	1-8	0)							
MR709413 MS709424	1-9x 1-10								
MS709435	1-11								
MS709468	1-16	*							
MS709525 MV709514	1-29								
SA718762	1-25 3-9x								
SB631157 SK715533	2-15 1-31								
SP709244	3-8								
TP709266 TP709334	3-10x 1-4			100					
TP709446 TP709457	1-12								
ACCESS ASSESSMENT OF THE THE T	1-14								
TP709492 TP709503	1-23 1-24								
TP709558 TP709560	2-16								
TP709727	2-17 2-26	b)							
TP709795 TP710021	2-37x 1-1								
TP711011	2-33								
TP711022 TP712001	2-34x 2-35								
TP712012	2-36x								
TP719594	1-20								
TP719853 TP719897	3-3 3-6								
TP720246 TP720257	3-12x								
TP720268	1-2 2-7				i				
TP720270 TP720292	2-9 2-10	e) '							
TP720303	2-10	<u>1</u>				-:40		e e	
							- Star commen		

1. ILLUSTRATION OF ASSEMBLY BLOCK (1)



2. ILLUSTRATION OF ASSEMBLY BLOCK (2)

