

PS-J10

SERVICE MANUAL

*US Model
Canadian Model
AEP Model
UK Model
E Model*



Photo: SILVER

SPECIFICATIONS

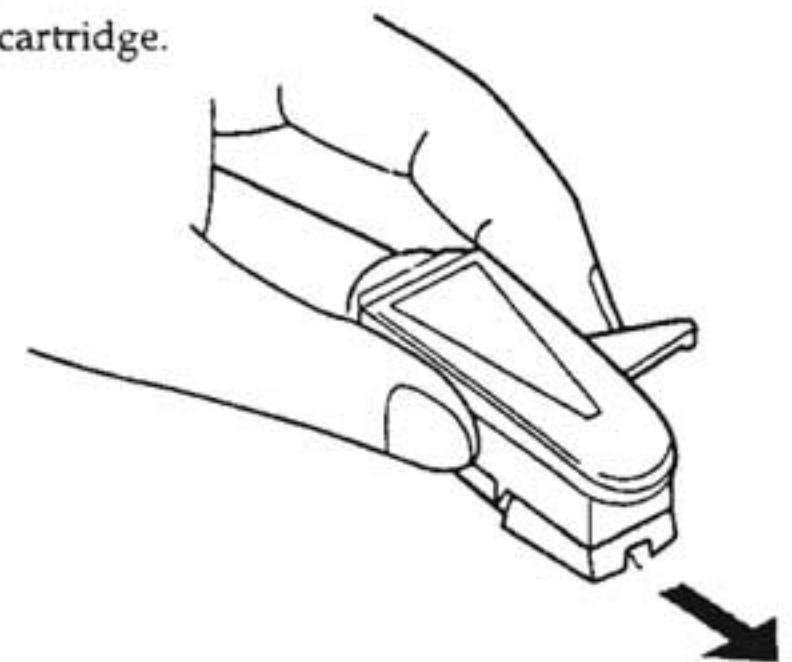
Platter	18.3 cm, aluminum-alloy diecast
Motor	DC servo motor
Drive system	Belt drive
Speed	33 1/3 rpm, 45 rpm
Automatic system	Return, reject
Tone arm type	Statically balanced
Cartridge type	Moving magnet type
Stylus	CN-234
General	
Dimensions	Approx. 270 × 88.5 × 320 mm (w/h/d) (10 3/4 × 3 1/2 × 12 5/8 inches)
Mass	Approx. 1.9 kg (4 lbs 3 oz)
Power requirement	220 - 230 V AC, 50 / 60 Hz (AEP, UK MODEL) 110 - 120 or 220 - 240 V AC adjustable, 50 / 60 Hz (E MODEL) 120 V AC, 50 / 60 Hz (US, Canadian MODEL)
Power consumption	4 W
Supplied accessory	45 rpm adaptor (1)

Design and specifications are subject to change without notice.

Replacing the Stylus

Use the procedure below to replace the stylus after about 400 hours of use because a worn stylus will damage records. A CN-234 replacement stylus is available at your Sony dealer.

- 1 Turn off the amplifier.
- 2 While holding the cartridge, detach the stylus assembly as illustrated.
- 3 Insert the new stylus into the cartridge.



SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK $\triangle$ OR DOTTED LINE WITH MARK $\triangle$ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE $\triangle$ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

STEREO TURNTABLE SYSTEM

SONY®



Connections

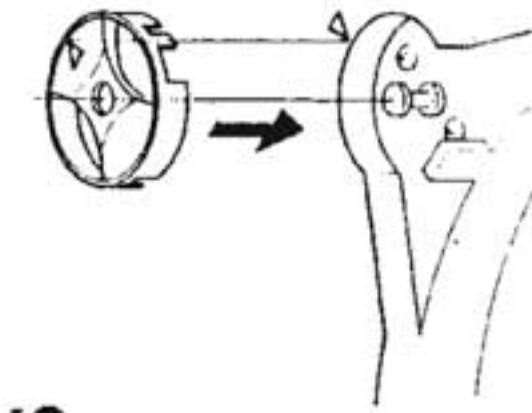
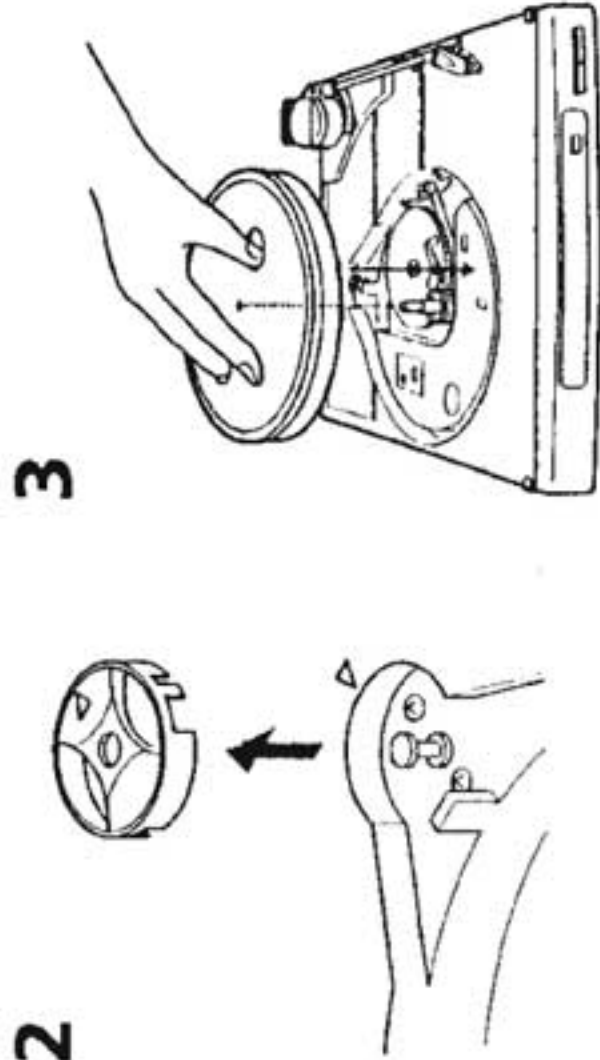
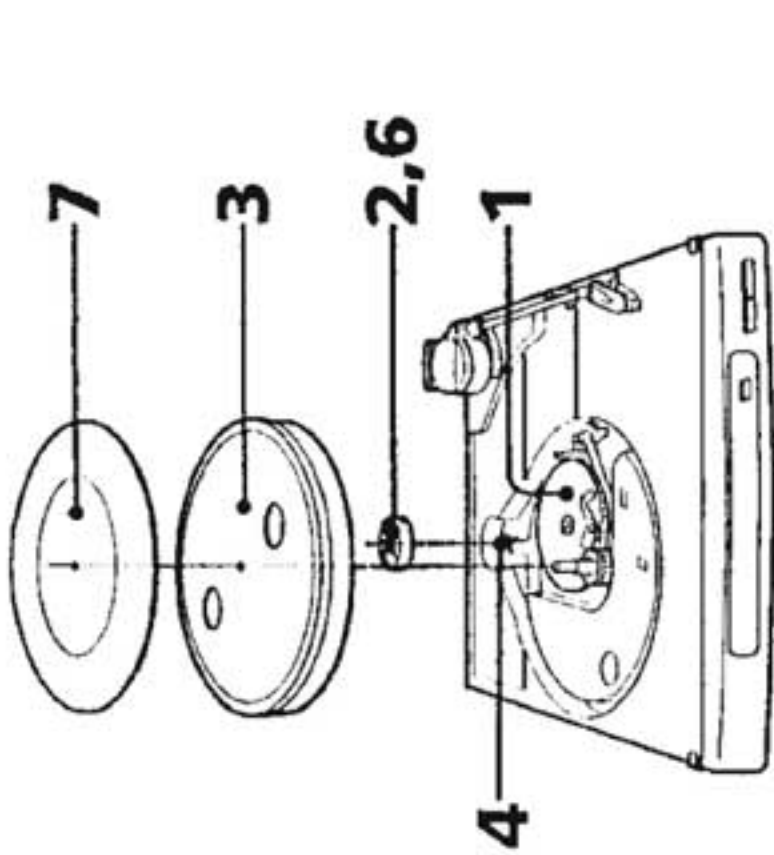
Assembling the Turntable

- 1 Turn the large plastic gear counterclockwise until the notch aligns with the small plastic gear.
- 2 Remove the adapter for 17-cm records from the adaptor stay.
- 3 Gripping the platter through the two holes, place it carefully onto the spindle.
- 4 Turn the platter clockwise until the ribbon tape aligns with the pulley, then pull both ends of the ribbon, gently stretching the rubber belt around the pulley.
- 5 Carefully remove the ribbon tape without twisting the rubber belt.
- 6 Put the adapter for 17-cm records back into the adapter stay, aligning the ▼ mark on the adapter stay with the ▲ mark below.
- 7 Place the rubber mat onto the platter.

To make sure it operates properly, rotate the platter clockwise once or twice with your hand.

Notes on installation

- Place the turntable on a level surface.
- Avoid placing the unit near electrical appliances (such as a television, hair dryer, or fluorescent lamp) which may cause hum or noise.
- Place the turntable where it will not be subject to any vibration, such as from speakers, slamming of doors, etc.
- Keep the unit away from direct sunlight, extremes of temperature, and excessive dust and moisture.



Playing Records

- 1 Place a record on the platter.
- 2 Press SPEED to select the speed. The indicator lights to show the selected speed.
- 3 Remove the cover from the cartridge.
- 4 Press ARM LIFTER. The tone arm rises.
- 5 Move the tone arm to the proper position over the record. The platter automatically starts rotating.
- 6 Press ARM LIFTER again. The tone arm lowers onto the record and the record starts playing.

When the record comes to an end

The tone arm returns to the arm rest and the turntable stops.

To stop during play

Press REJECT.

To move the tone arm to a different point on the record

Press ARM LIFTER to raise the tone arm, move the tone arm to the proper position on the record, then press ARM LIFTER again.

To play a 17-cm record

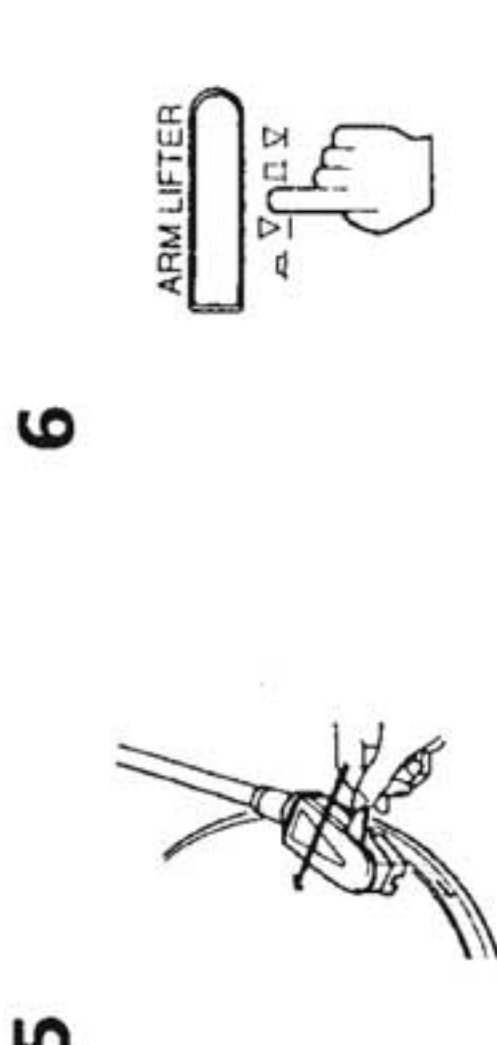
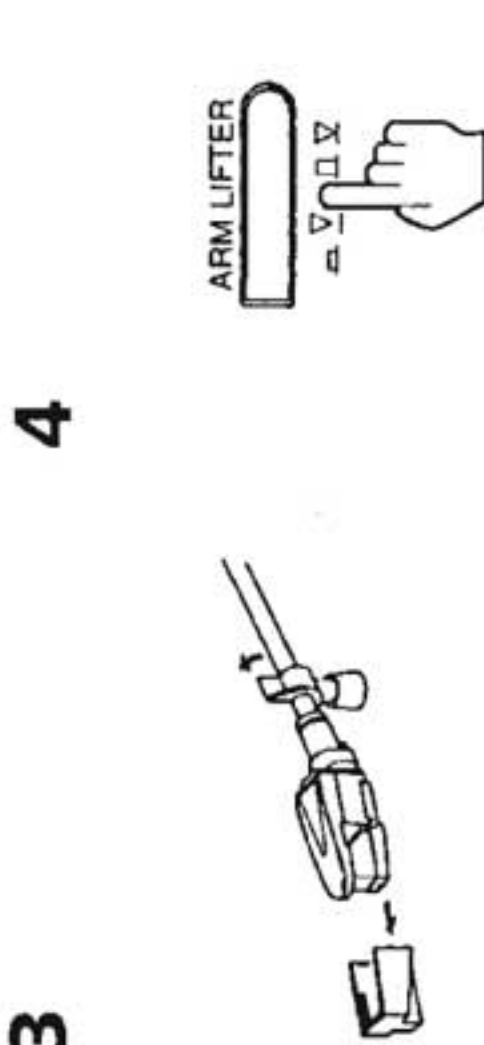
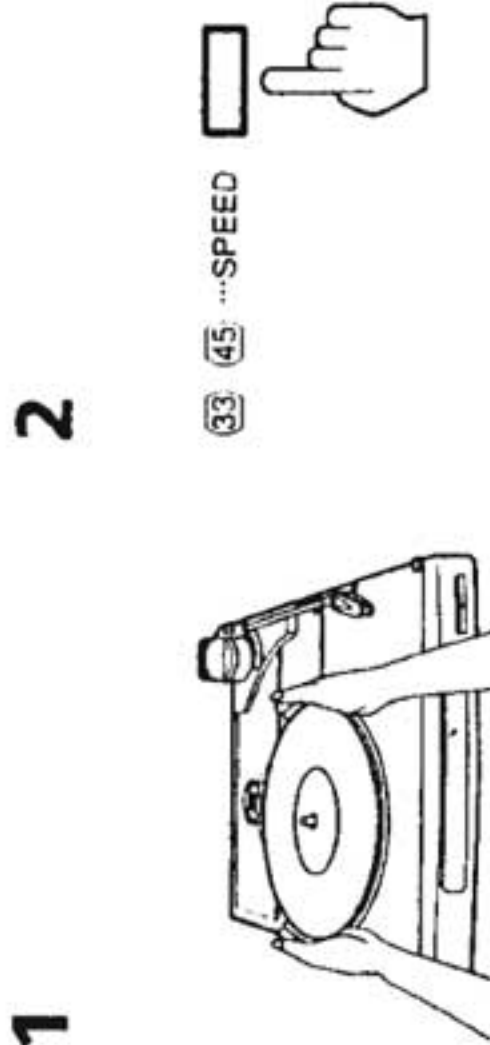
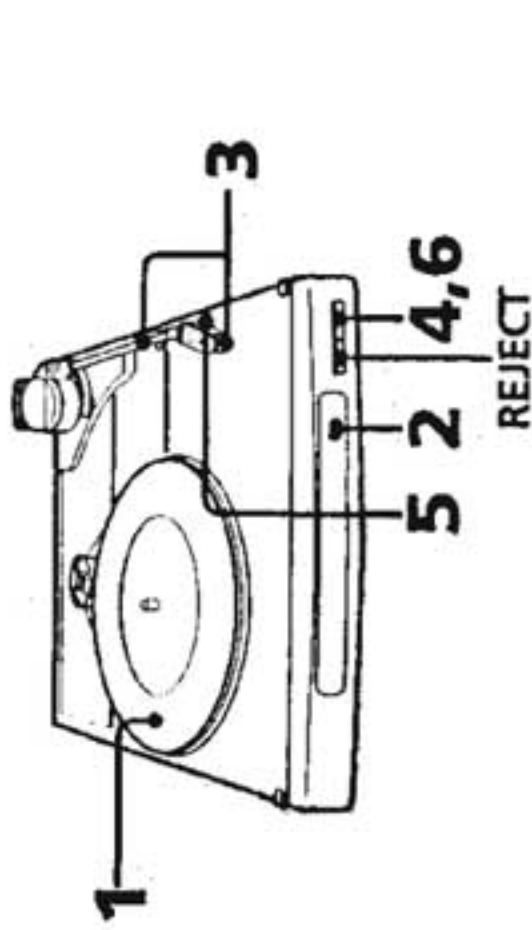
Use the supplied adaptor. When you have finished using the adaptor, put it back in the adaptor stay with the ▲ mark aligned to the ▼ mark on the adaptor stay.

If the tone arm begins to return to the arm rest as you move it towards the center

Do not resist this movement, as it may damage the automatic return mechanism.

If the tone arm does not return to the arm rest at the end of the record

Press REJECT.



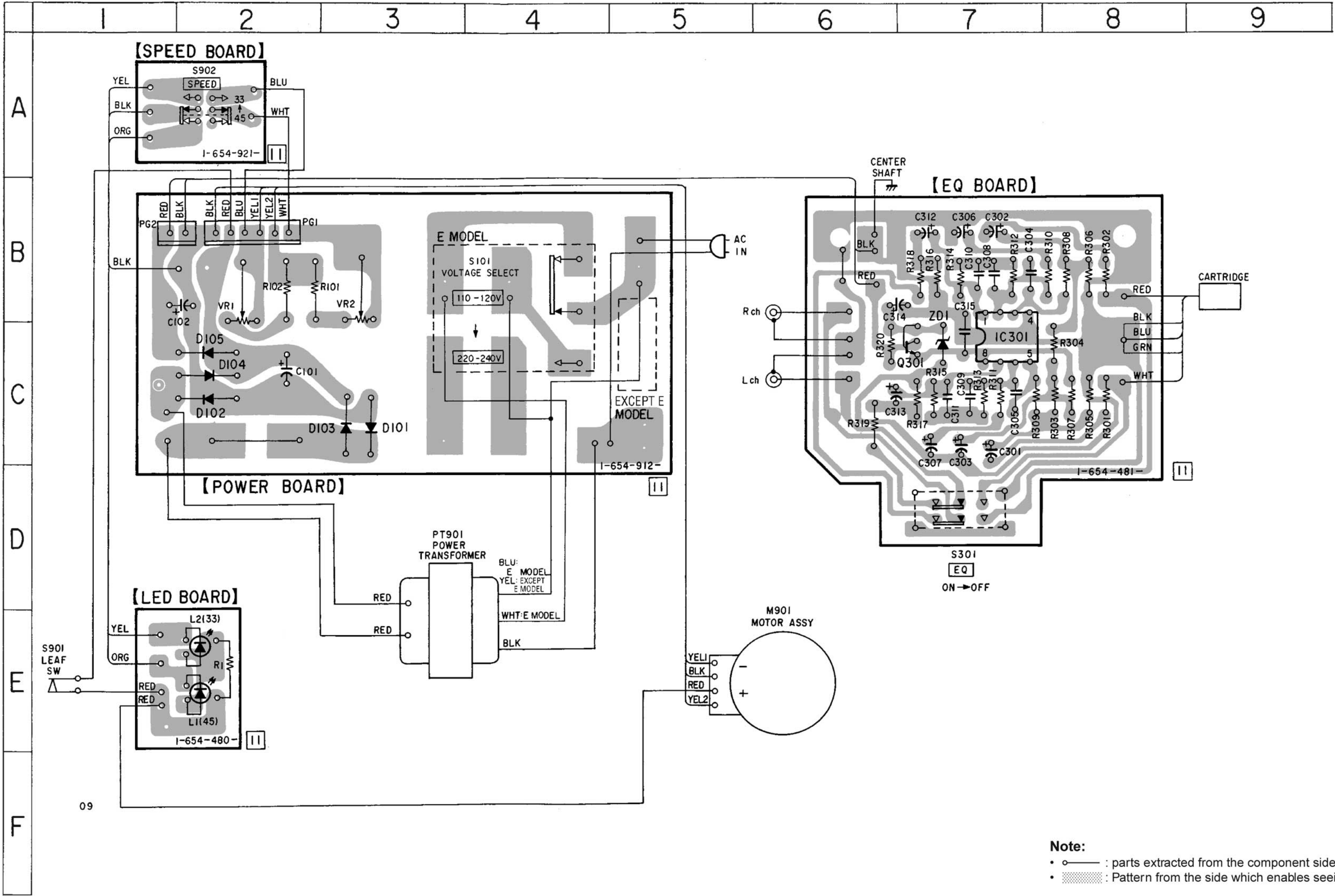
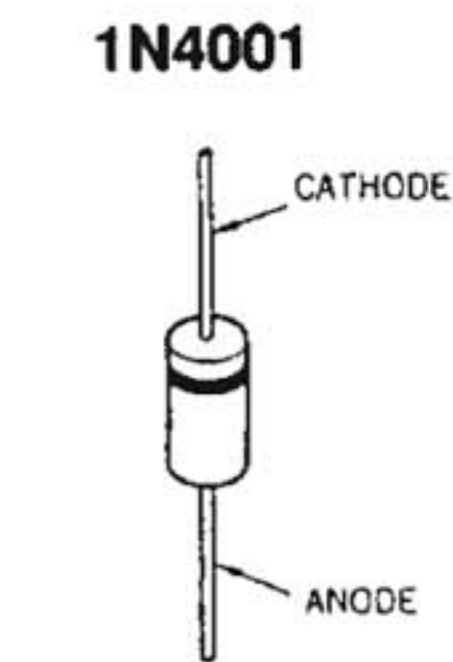
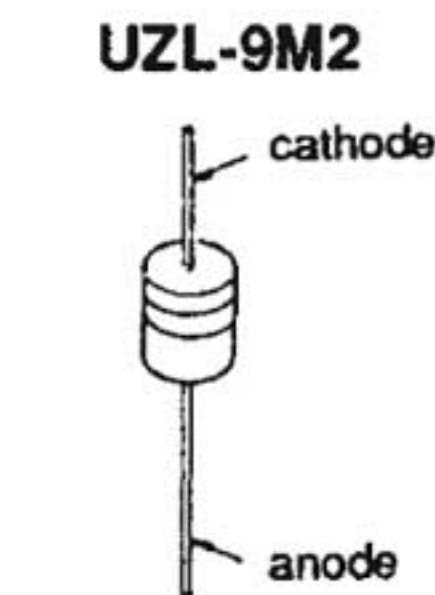
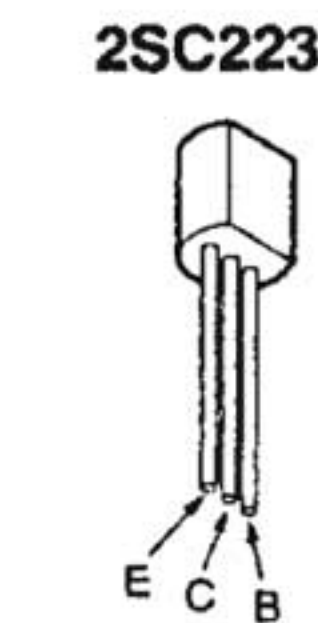
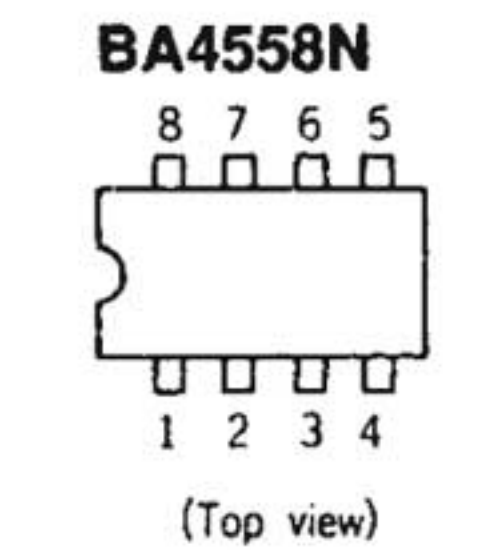
SECTION 2
DIAGRAMS

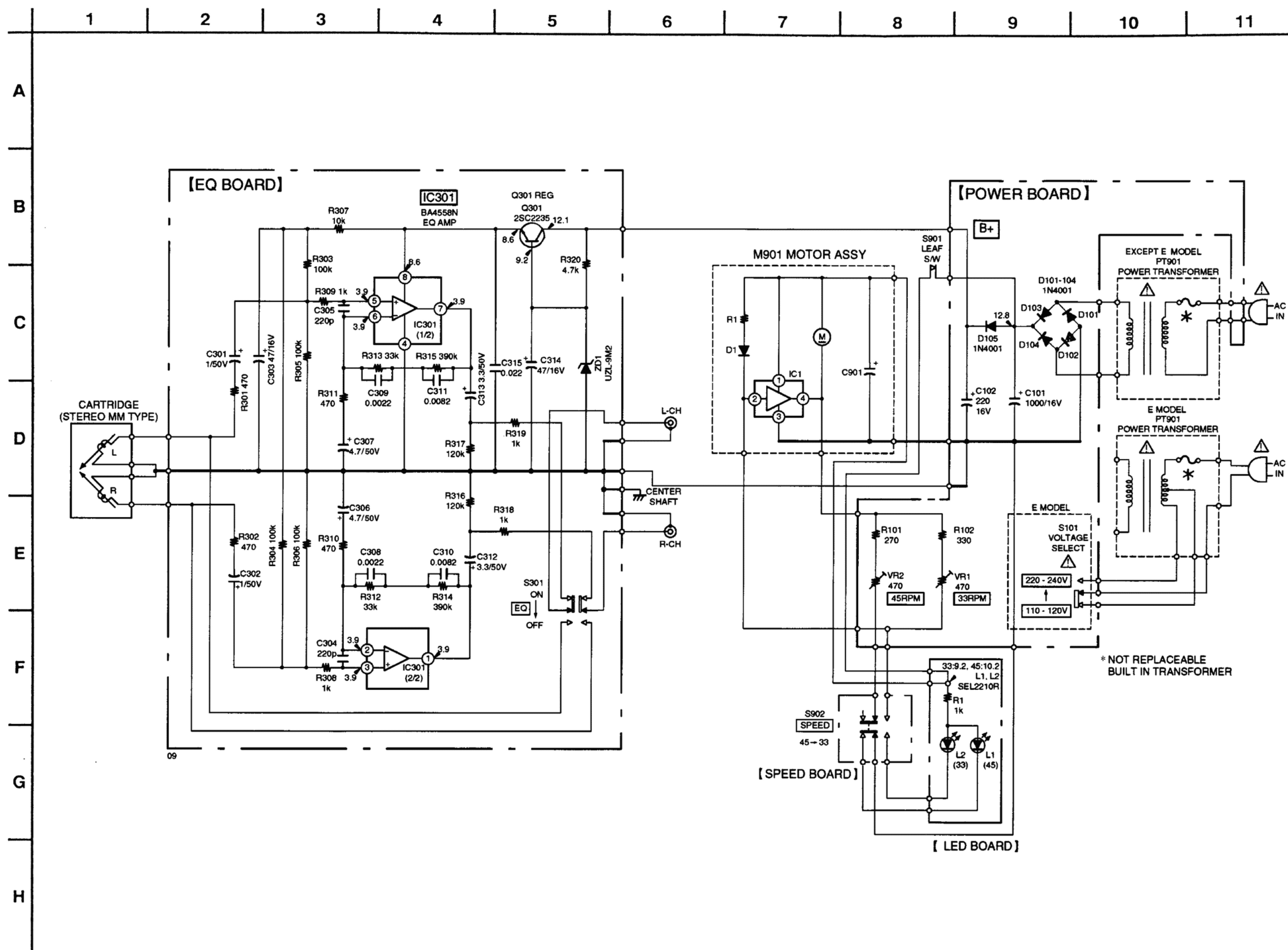
2-1. PRINTED WIRING BOARDS

• Semiconductor Location

Ref. No.	Location
D101	C-3
D102	C-2
D103	C-3
D104	C-2
D105	C-2
IC301	C-7
L1	E-2
L2	E-2
Q301	C-7
ZD1	C-7

• Semiconductor Lead Layouts





SECTION 3

EXPLODED VIEWS

NOTE:

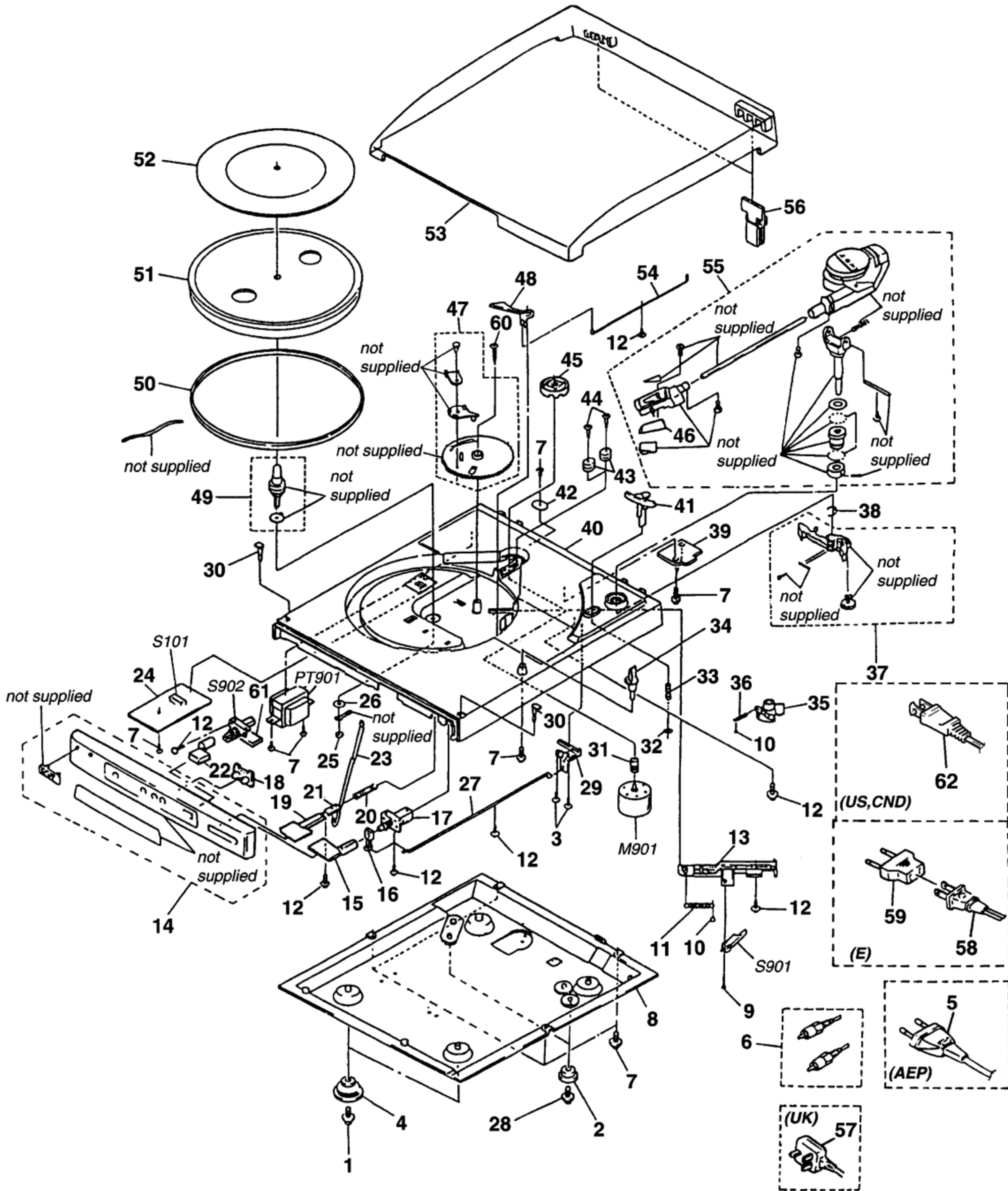
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories and packing materials are given in the last of this parts list.
- Abbreviation
CND: Canadian model

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité.

Ne les remplacer que par une
pièce portant le numéro spécifié.



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
* 1	4-970-314-01	FOOT SCREW		* 34	4-970-326-01	ARM STAND	
2	4-970-312-01	RUBBER FOOT		* 35	4-970-301-01	ELEVATOR	
* 3	4-970-328-01	WASHER SCREW TAP WPH		* 36	4-970-305-01	SPRING ELEVATOR	
4	4-970-313-01	RUBBER FOOT		37	A-4660-773-A	ARM ASSY, FEED	
△ 5	1-575-651-11	CORD, POWER (AEP)		* 38	4-970-306-01	E-RING	
6	1-555-116-11	CORD, PHONE		* 39	1-654-481-11	EQ BOARD	
7	4-960-220-01	SCREW TAP WPH		* 40	4-970-290-01	CABINET UPPER (BLACK)	
* 8	4-970-307-01	COVER BOTTOM		* 40	4-970-290-11	CABINET UPPER (SILVER)	
9	4-970-310-01	SCREW TAP WPH		* 41	4-970-295-01	ELEVATION ARM	
* 10	4-970-329-01	STOPPER SPRING		42	4-960-209-01	STOPPER CORD	
* 11	4-970-330-01	ACTUATING ARM SPRING		43	4-960-182-01	CUSHION MOTOR	
12	4-960-217-01	WASHER SCREW TAP WPH		* 44	4-970-325-01	MOTOR SETTING SCREW	
* 13	4-970-298-01	ACTUATING ARM		45	4-970-308-01	ADAPTOR E.P	
14	A-4384-983-A	PANEL ASSY, FRONT (SILVER)		46	4-951-290-01	STYLUS (CN-234)	
14	A-4660-791-A	PANEL ASSY, FRONT (BLACK)		47	A-4660-485-A	RING GEAR ASSY	
15	4-970-322-01	CUE KNOB		* 48	4-970-300-01	CUT LEVER	
* 16	4-970-323-01	CUE LINK HOLDER		49	A-4660-772-A	SHAFT ASSY, CENTER	
17	1-572-744-11	SWITCH, PUSH (1 KEY)(ARM LIFTER)		50	4-960-222-01	BELT RUBBER	
* 18	1-654-480-11	LED BOARD		* 51	4-971-209-01	PLATTER	
19	4-970-294-01	KNOB REJECT (BLACK)		52	4-971-208-01	RUBBER SHEET	
19	4-970-294-11	KNOB REJECT (SILVER)		53	4-970-309-01	COVER DUST	
* 20	4-970-321-01	RETURN		* 54	4-970-299-01	LINK CUT	
* 21	4-970-320-01	HOLDER REJECT		55	A-4660-769-A	ARM ASSY, TONE	
22	4-970-293-01	KNOB SPEED (BLACK)		56	A-4660-774-A	HINGE ASSY	
22	4-970-293-11	KNOB SPEED (SILVER)		△ 57	1-696-570-21	CORD, POWER (UK)	
* 23	4-970-311-01	LINK REJECT		△ 58	1-590-074-11	CORD, POWER (E)	
* 24	1-654-912-11	POWER BOARD		△ 59	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
* 25	4-970-303-01	NUT HEX		60	4-960-218-01	WASHER SCREW TAP WPH	
* 26	4-970-302-01	WASHER PLANE		* 61	1-654-921-11	SPEED BOARD	
* 27	4-970-324-01	QUEING LINK		△ 62	1-777-361-11	CABLE, INTERFACE (MAC) (US, CND)	
* 28	4-970-316-01	SCREW TAP WPH		M901	1-698-210-11	MOTOR	
* 29	4-970-327-01	CUE LEVER		△ PT901	1-427-716-11	TRANSFORMER, POWER (AEP,UK)	
30	4-970-291-01	CUSHION DUST COVER		△ PT901	1-427-857-11	TRANSFORMER, POWER (E)	
31	4-970-304-01	PULLEY MOTOR		△ PT901	1-431-954-11	TRANSFORMER, POWER (US,CND)	
* 32	4-970-297-01	WASHER C.S		△ S101	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (E)	
* 33	4-970-296-01	SPRING ELEVATION		S901	1-692-692-11	LEAF S/W	
				S902	1-762-224-11	SWITCH, PUSH (SPEED)(1 KEY)	

SECTION 4
ELECTRICAL PARTS LIST

EQ

LED

POWER

Note:

The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
 - -XX, -X mean standardized parts, so they may have some difference from the original one.
 - Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F : nonflammable
 - SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA..., uPB...: μ PB...,
uPC...: μ PC..., uPD...: μ PD...
 - CAPACITORS
uF : μ F
 - COILS
uH : μ H
 - Abbreviation
CND: Canadian model

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
*	1-654-481-11	EQ BOARD *****					R319	1-249-417-11	CARBON	1K	5%	1/4W F	
							R320	1-247-847-11	CARBON	4.7K	5%	1/4W	
		< CAPACITOR >							< SWITCH >				
C301	1-124-903-11	ELECT	1uF	20%	50V		S301	1-762-223-11	SWITCH, SLIDE (EQ)				
C302	1-124-903-11	ELECT	1uF	20%	50V				< DIODE >				
C303	1-104-664-11	ELECT	47uF	20%	16V								
C304	1-102-978-00	CERAMIC	220PF	5%	50V		ZD1	8-719-001-15	DIODE UZL-9M2				
C305	1-102-978-00	CERAMIC	220PF	5%	50V	*****							
C306	1-126-963-11	ELECT	4.7uF	20%	50V	*	1-654-480-11	LED BOARD	*****				
C307	1-126-963-11	ELECT	4.7uF	20%	50V				< DIODE >				
C308	1-130-475-00	MYLAR	0.0022uF	5%	50V	L1	8-719-300-71	LED SEL2210R (45)					
C309	1-130-475-00	MYLAR	0.0022uF	5%	50V	L2	8-719-300-71	LED SEL2210R (33)					
C310	1-130-482-00	MYLAR	0.0082uF	5%	50V				< RESISTOR >				
C311	1-130-482-00	MYLAR	0.0082uF	5%	50V	R1	1-249-417-11	CARBON	1K	5%	1/4W F		
C312	1-126-962-11	ELECT	3.3uF	20%	50V	*****							
C313	1-126-962-11	ELECT	3.3uF	20%	50V	*	1-654-912-11	POWER BOARD	*****				
C314	1-104-664-11	ELECT	47uF	20%	16V				< CAPACITOR >				
C315	1-101-005-00	CERAMIC	22000PF		50V	C101	1-126-942-61	ELECT	1000uF	20%	16V		
		< IC >					C102	1-104-666-11	ELECT	220uF	20%	16V	
IC301	8-759-989-89	IC BA4558N							< DIODE >				
		< TRANSISTOR >					D101	8-719-200-02	DIODE 10E2				
Q301	8-729-020-80	TRANSISTOR 2SC2235-OY					D102	8-719-200-02	DIODE 10E2				
		< RESISTOR >					D103	8-719-200-02	DIODE 10E2				
R301	1-247-823-31	CARBON	470	5%	1/4W	D104	8-719-200-02	DIODE 10E2					
R302	1-247-823-31	CARBON	470	5%	1/4W	D105	8-719-200-02	DIODE 10E2					
R303	1-249-441-11	CARBON	100K	5%	1/4W				< RESISTOR >				
R304	1-249-441-11	CARBON	100K	5%	1/4W	R101	1-249-410-11	CARBON	270	5%	1/4W		
R305	1-249-441-11	CARBON	100K	5%	1/4W	R102	1-249-411-11	CARBON	330	5%	1/4W		
R306	1-249-441-11	CARBON	100K	5%	1/4W				< SWITCH >				
R307	1-247-855-31	CARBON	10K	5%	1/4W	△ S101	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (E)					
R308	1-249-417-11	CARBON	1K	5%	1/4W F								
R309	1-249-417-11	CARBON	1K	5%	1/4W F								
R310	1-247-823-31	CARBON	470	5%	1/4W								
R311	1-247-823-31	CARBON	470	5%	1/4W								
R312	1-249-435-11	CARBON	33K	5%	1/4W								
R313	1-249-435-11	CARBON	33K	5%	1/4W								
R314	1-247-893-11	CARBON	390K	5%	1/4W								
R315	1-247-893-11	CARBON	390K	5%	1/4W								
R316	1-247-881-00	CARBON	120K	5%	1/4W								
R317	1-247-881-00	CARBON	120K	5%	1/4W								
R318	1-249-417-11	CARBON	1K	5%	1/4W F								

PS-J10

POWER

SPEED

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
VR1	1-241-760-11	RES, ADJ, CARBON 470	
VR2	1-241-760-11	RES, ADJ, CARBON 470	

*	1-654-921-11	SPEED BOARD *****	
S902	1-762-224-11	SWITCH, PUSH (SPEED) (1 KEY)	

		MISCELLANEOUS *****	
△ 5	1-575-651-11	CORD, POWER (AEP)	
6	1-555-116-11	CORD, PHONE	
17	1-572-744-11	SWITCH, PUSH (1 KEY)(ARM LIFTER)	
△ 57	1-696-570-21	CORD, POWER (UK)	
△ 58	1-590-074-11	CORD, POWER (E)	
△ 59	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
62	1-777-361-11	CABLE, INTERFACE (MAC)(US,CND)	
M901	1-698-210-11	MOTOR	
△ PT901	1-427-716-11	TRANSFORMER, POWER (AEP,UK)	
△ PT901	1-427-857-11	TRANSFORMER, POWER (E)	
△ PT901	1-431-954-11	TRANSFORMER, POWER (US,CND)	
△ S101	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (E)	
S901	1-692-692-11	LEAF S/W	
S902	1-762-224-11	SWITCH, PUSH (SPEED) (1 KEY)	

		ACCESSORIES & PACKING MATERIALS *****	
△	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
	3-759-639-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH,SPANISH,PORTUGUESE)(US,CND,AEP,UK)	
	3-759-639-41	MANUAL, INSTRUCTION (GERMAN,DUTCH,SWEDISH,ITALIAN)(AEP)	
	3-759-639-51	MANUAL, INSTRUCTION (ENGLISH,FRENCH,SPANISH,CHINESE)(E)	
	4-960-222-01	BELT RUBBER	
*	4-970-333-01	INDIVIDUAL CARTON	
	4-971-208-01	RUBBER SHEET	
*	4-971-209-01	PLATTER	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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