

PS-333

PS-333



US Model
AEP Model
E Model
SCN Model
Canadian Model
UK Model

STEREO TURNTABLE SYSTEM

SPECIFICATIONS

GENERAL

Power Requirements: 120 V ac, 60 Hz (US, Canadian model)
220 V ac, 50/60 Hz (or 240 V ac adjustable by authorized Sony personnel) (AEP, SCN model)
240 V ac, 50/60 Hz (or 220 V ac adjustable by authorized Sony personnel) (UK model)
110, 120, 220, 240 V ac adjustable, 50/60 Hz (E model)

Power Consumption: 6W

Dimensions: Approx. 430 (w) x 125 (h) x 365 (d) mm
17 (w) x 4 7/8 (h) x 14 3/8 (d) inches including projecting parts and controls

Weight: Approx. 5.5 kg, 12 lb 2 oz (net)
Approx. 6.7 kg, 14 lb 12 oz (in shipping carton)

TURNTABLE

Platter: 32.4 cm (12 3/4 inches), aluminum-alloy diecast

Motor: Linear BSL (brushless and slotless) motor

Drive System: Direct drive

Speed: 33 1/3 rpm, 45 rpm

Starting Characteristics: Comes to nominal speed within a half revolution (33 1/3 rpm)


Wow and Flutter: ±0.045% (DIN) (AEP, UK, E, SCN model)
0.03% (WRMS)

Signal-to-Noise Ratio: 70 dB (DIN-B)


Automatic System: Lead-in, return, reject

— Continued on page 2 —

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS 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 UN TRAMÉ ET UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES 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 DES SUPPLÉMENTS PUBLIÉS PAR SONY.

SONY

SERVICE MANUAL

TO NEARM

Type: Statically balanced, universal

Pivot-to-Stylus Length: 216.5 mm (8 1/2 inches)

Overall Arm Length: 290 mm (11 1/2 inches)

Overhang: 16.5 mm (2 1/32 inches)

Tracking Error: +3°, -1°

Tracking Force Adjustment Range: 0-3 g

Total of Cartridge and Headshell Weight Range: 11.5-19 g

CARTRIDGE VL-37G

Type: Moving magnet

Frequency Range: 10-20,000 Hz

Channel Separation: More than 23 dB (1 kHz)

Output Voltage: 3 mV (1 kHz, 3.54 cm/s, 45°)

Suitable Load Impedance: 50 kΩ

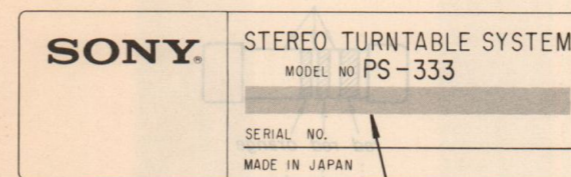
Tracking Force: 1.5-2.5 g (2 g) (recommended value)

Replacement Stylus: Sony ND-137G (conical 0.6 mil diamond)

Weight: 13 g including the headshell

MODEL IDENTIFICATION

— Specification Label —



US, Canadian model AC 120 V 60 Hz 6W
AEP, SCN model AC 220 V 50 Hz 6W
E model AC 110, 120, 220, 240 V 50 Hz 6W
UK model AC 240 V 50 Hz 6W

MELF (Metal Electrodes Face-Bonding) Components (AEP, E Model)

Warning

If MELF components are forcibly removed from the printed circuit board with pincers or pliers, the circuit board pattern is likely to peel away. Always remove MELF components according to the procedure described on the next page. Replace MELF components with the lead type components.

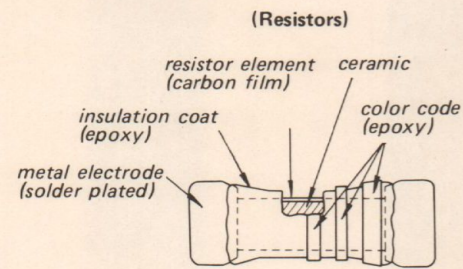
MELF components are soldered directly to the surface of the printed circuit board.

MELF resistors and capacitors have the same dimensions and are distinguished by their background colors: light brown for resistors, and pink or light green for capacitors.

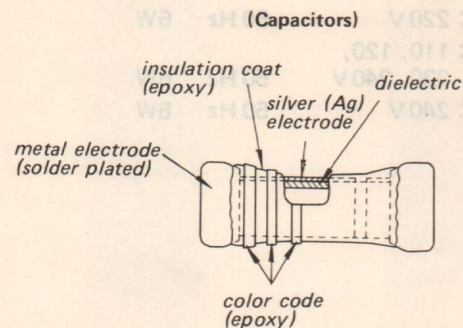
The MELF resistor color coding is the same as for conventional resistors, and MELF capacitor color coding is the same as for tube-type ceramic capacitors. Note, however, that all MELF resistors are rated at 1/4 W and ±5%.

Components larger than resistors and without a color code are cross conductors, which are used instead of jumper wires.

1. Structure



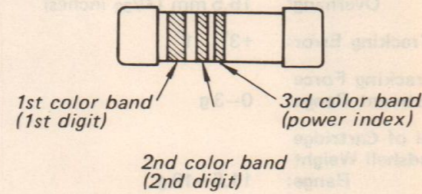
(Resistors)



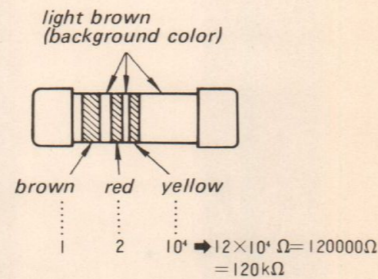
(Capacitors)

Fig. 1

2. Color Code Reading



(Example of Resistor)



(Example of Capacitor)

background color { pink 25 V voltage resistance
light green 50 V voltage resistance

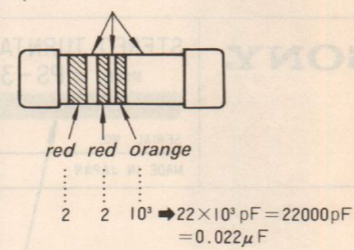


Fig. 2

3. How to Remove MELF Components and Mount Replacements

Use a soldering iron of at least 40W with an iron tip 4 mm in diameter and file the tip down to the angle shown in the diagram.

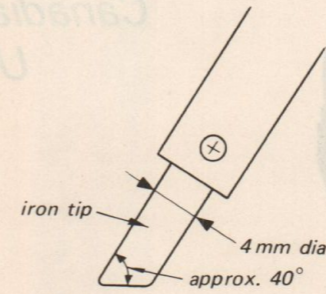


Fig. 3

1. Bring the flat surface of the soldering iron in equal contact with both soldered ends of the component.
2. The solder should melt in about 4 seconds. (The solder will melt more readily if a small amount of solder is attached to the iron tip and the iron tip is placed against the component.)
3. Once the solder has melted, tap the component aside with the tip of the soldering iron, and remove it from the board.

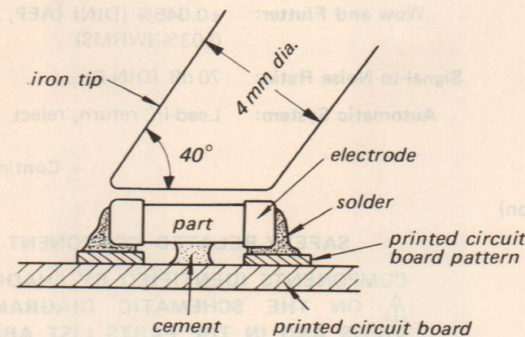


Fig. 4

4. Use lead type resistors or capacitors to replace the MELF components. These replacements may be mounted either with short leads (see Fig. 5), or by covering a lead with tubing (see Fig. 6).

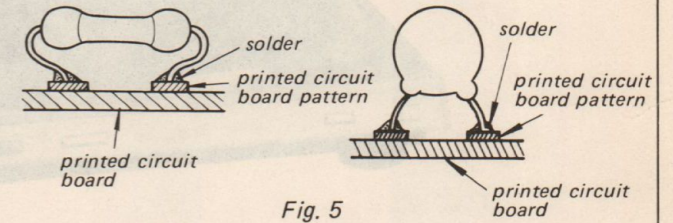


Fig. 5

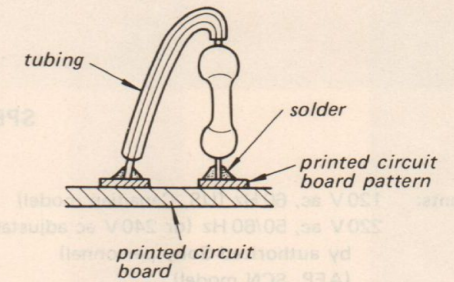
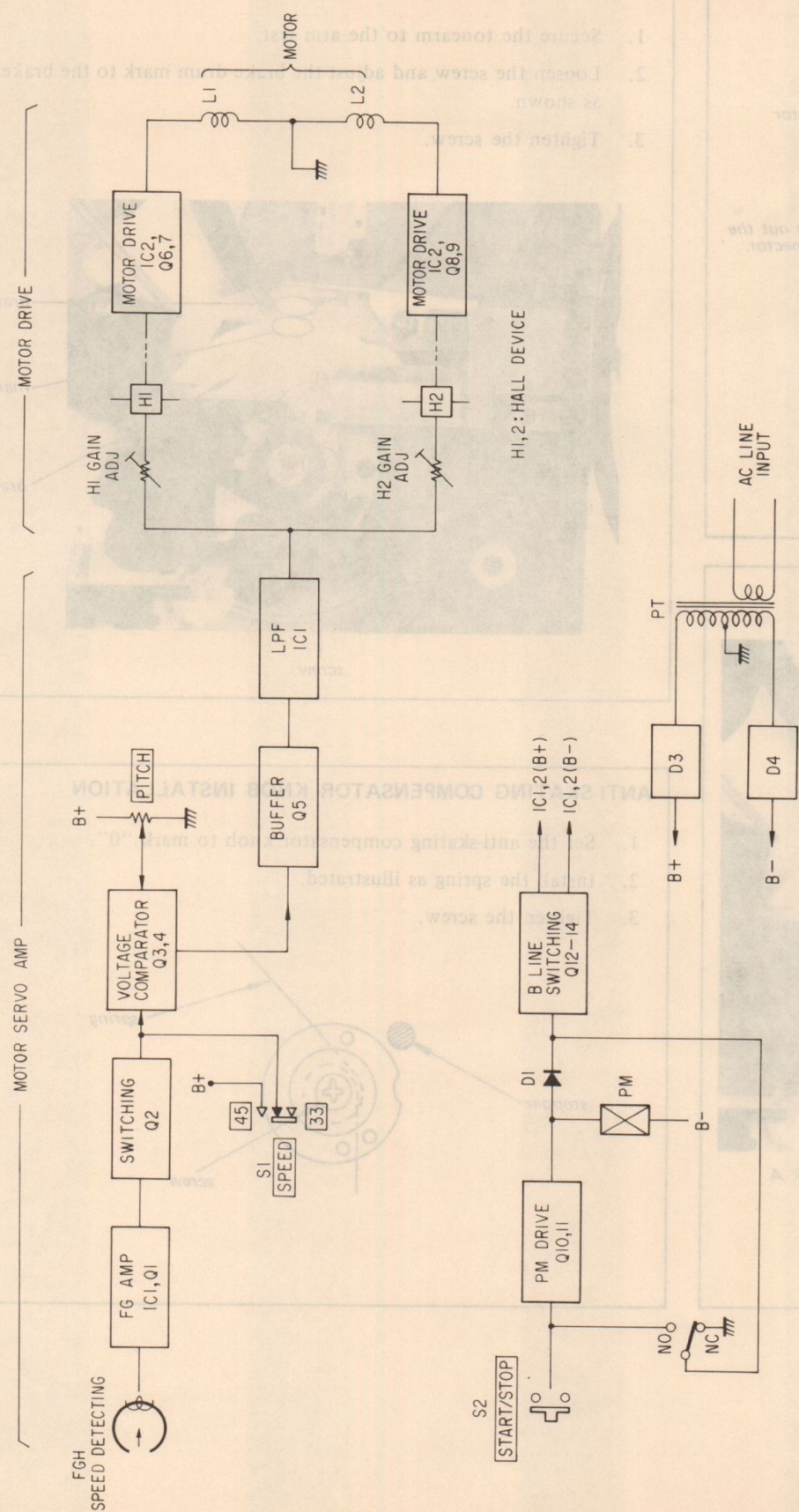


Fig. 6

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM

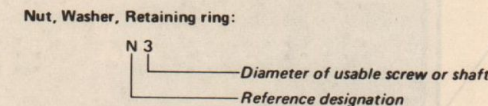
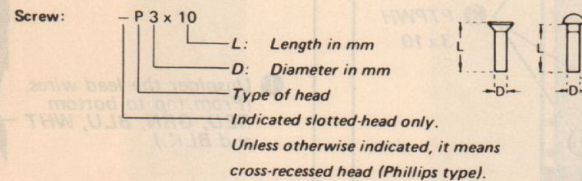


1/4 WATT CARBON RESISTORS (A)

Note: Circled letter (A) is applicable to European models only.

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

HARDWARE NOMENCLATURE



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

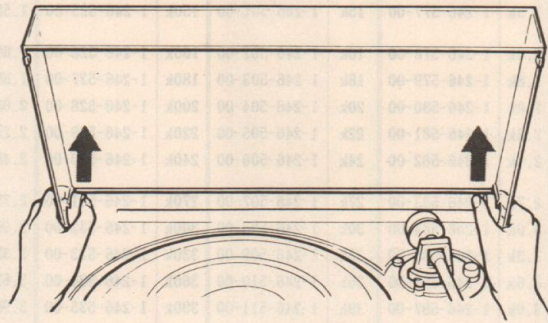
Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

DUST COVER

To remove the dust cover, open the dust cover fully and slide it as illustrated while holding it with both hands.



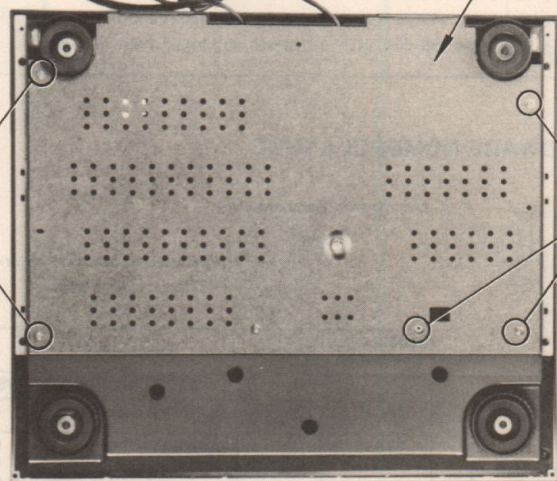
BOTTOM PLATE

1 Remove the rubber mat and the turntable.

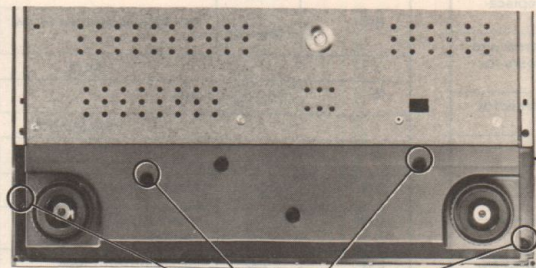
4 bottom plate

2 PTPWH 3x10

3 PTPWH 3x10



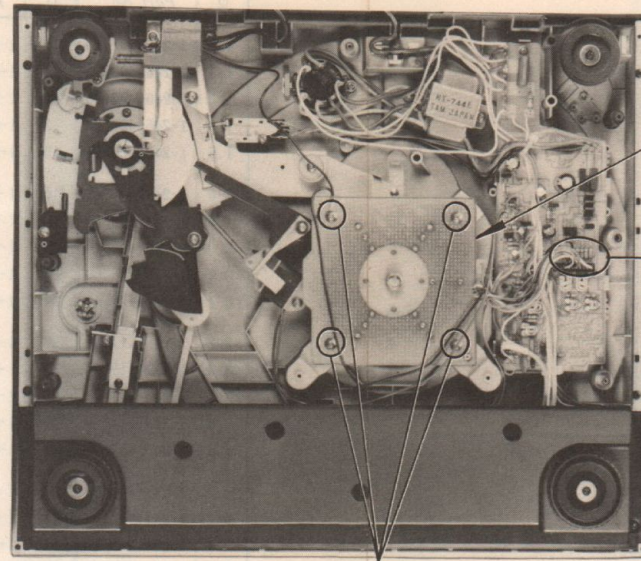
LOWER COVER



1 BVTP 3x10

2 lower cover

MOTOR



3 motor

1 Plug out the connector.

2 BVTP 4x12

TONARM BLOCK

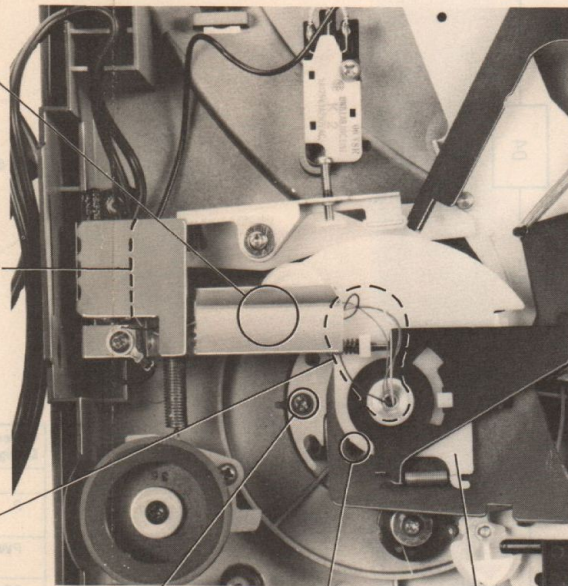
1 Unsolder the lead wires. (From top to bottom RED, GRN, BLU, WHT and BLK.)

2 Plug out the PHONO leads.

3 Loosen the screw A with an L-shaped wrench (1.4 mm) and pullout the block A.

4 Remove the screw B and the parts.

shielded section



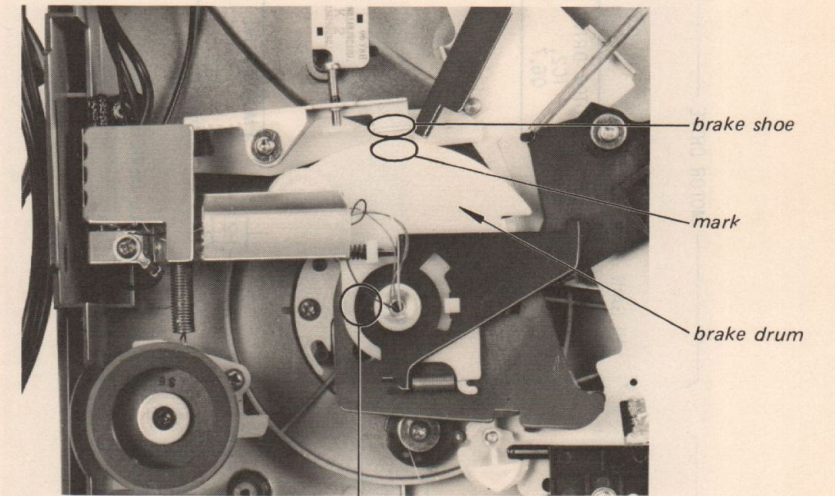
screw B

screw A

block A

BRAKE DRUM INSTALLATION

1. Secure the tonearm to the arm rest.
2. Loosen the screw and adjust the brake drum mark to the brake shoe as shown.
3. Tighten the screw.



brake shoe

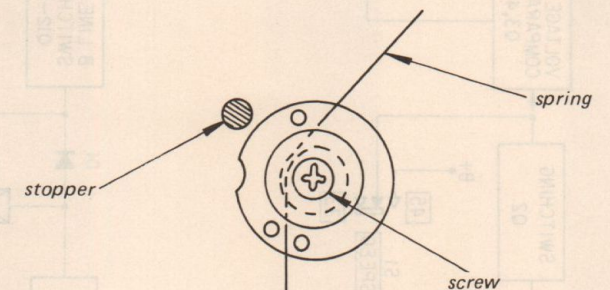
mark

brake drum

screw

ANTI-SKATING COMPENSATOR KNOB INSTALLATION

1. Set the anti-skating compensator knob to mark "0".
2. Install the spring as illustrated.
3. Tighten the screw.



spring

stopper

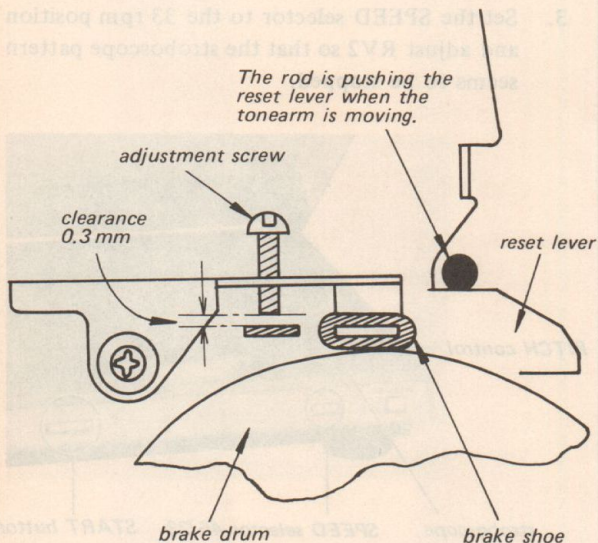
screw

SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

Brake Adjustment

1. Turn the drive gear counterclockwise, and the tonearm moves inwards and the brake shoe touches the brake drum.
2. Adjust the screw so that the clearance is 0.3 mm as shown.

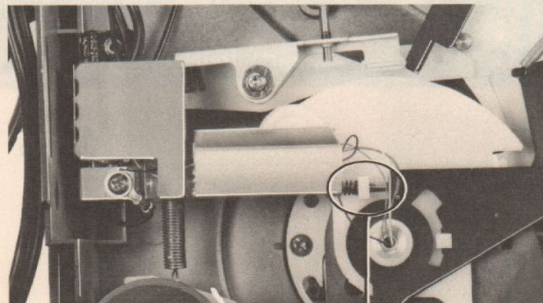


Auto Return Position Adjustment

1. Turn the turntable by hand, and the tonearm moves inwards.
2. Adjust the screw so that the tonearm returns at the position where the distance between the stylus and the spindle is 61–64 mm.

Return position	Adjustment screw
early	clockwise
later	counterclockwise

Play the test record (YFSC-16) and confirm that the tonearm returns at count of 4–11.



automatic return
adjustment screw

Tonearm Drop-point Adjustment

1. Remove the rubber cap of the tonearm drop-point adjustment hole.
2. Set the record size selector lever to the 30 (12") position and make sure that the stylus gets down on the specified point of the test record.

test record: YFSC-16

Record size selector lever position	Count of drop-point
30 (12")	4 to 16
25 (10")	6 to 24
17 (7")	7 to 25

3. If necessary, insert the screwdriver into the hole and adjust the drop-point by turning the adjustment screw.

To change the drop-point inward:

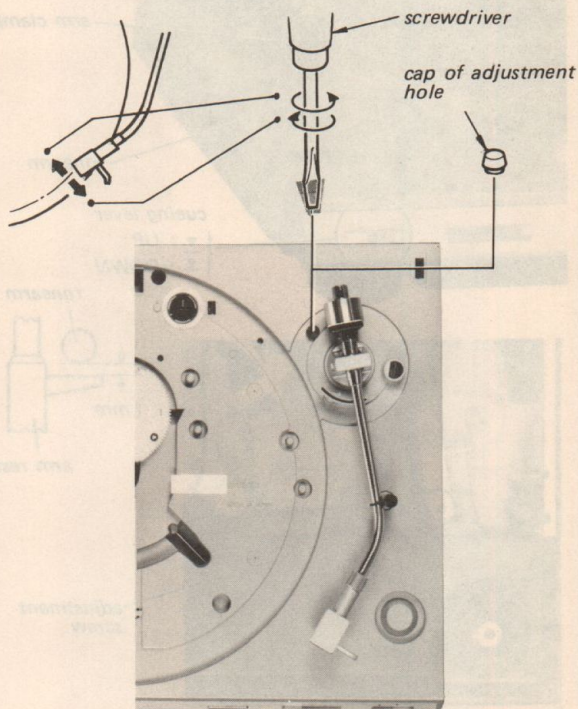
Turn the adjustment screw slightly counterclockwise.

To change the drop-point outward:

Turn the adjustment screw slightly clockwise.

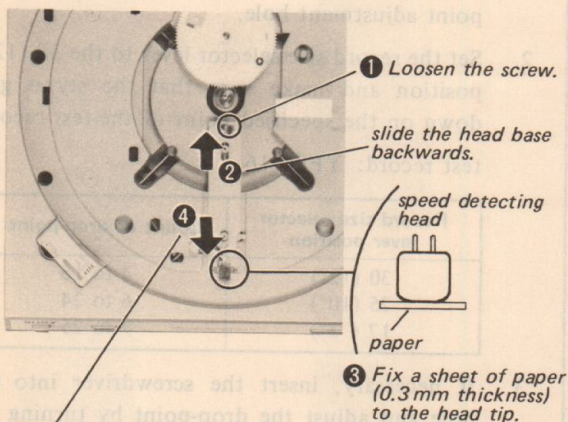
4. Once it is properly adjusted with a 30 cm (12") record, the drop-point will be correct for 17 cm (7") and 25 cm (10") records as well.

Note: The tonearm drop-point is changed about 12 mm (½") by one turn of the adjustment screw.



3-2. ELECTRICAL ADJUSTMENT

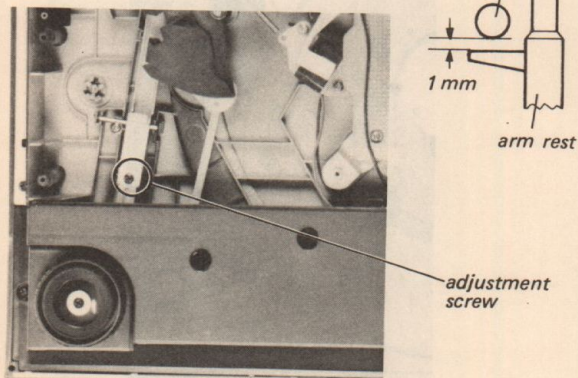
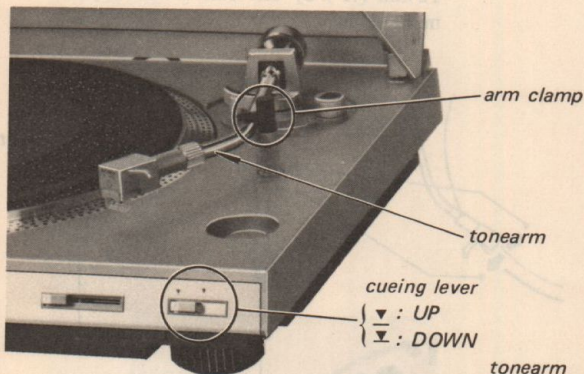
Speed Detecting Head Position Adjustment



Install the turntable and slide the head base forwards so that the head tip touches the turntable rim. Remove the turntable and tighten the screw. Finally, peel off the paper from head tip.

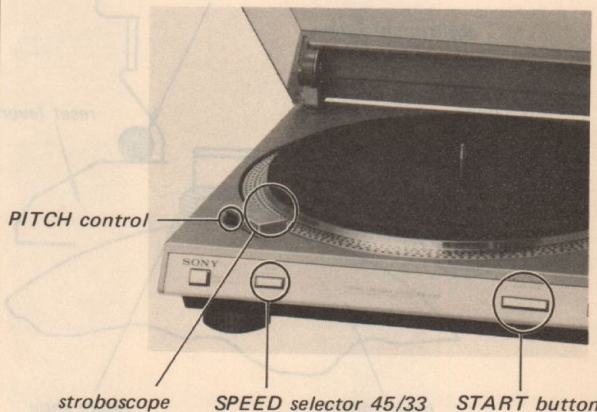
Tonearm Height Adjustment

1. Release the tonearm from the clamp and place the tonearm on the arm rest.
2. Set the cueing lever to the up-position.
3. Adjust the screw so that the clearance between the tonearm and the arm rest is 1 mm.

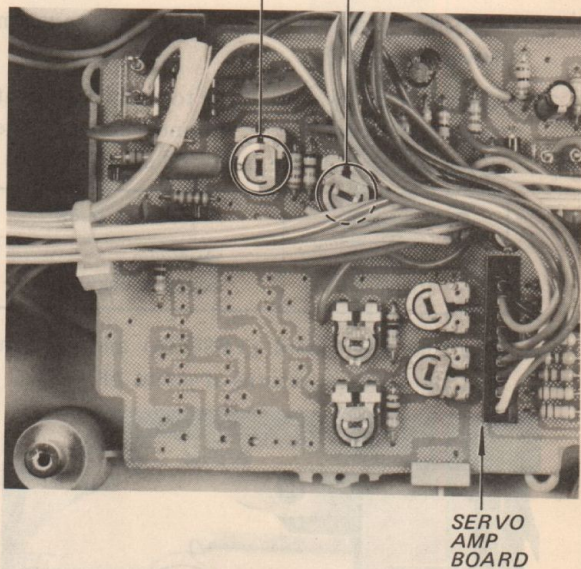


Speed Adjustment

1. Set the PITCH control at center position and push the START button.
2. Set the SPEED selector to the 33 rpm position and adjust RV1 so that the stroboscope pattern seems to be stopped.
3. Set the SPEED selector to the 33 rpm position and adjust RV2 so that the stroboscope pattern seems to be stopped.

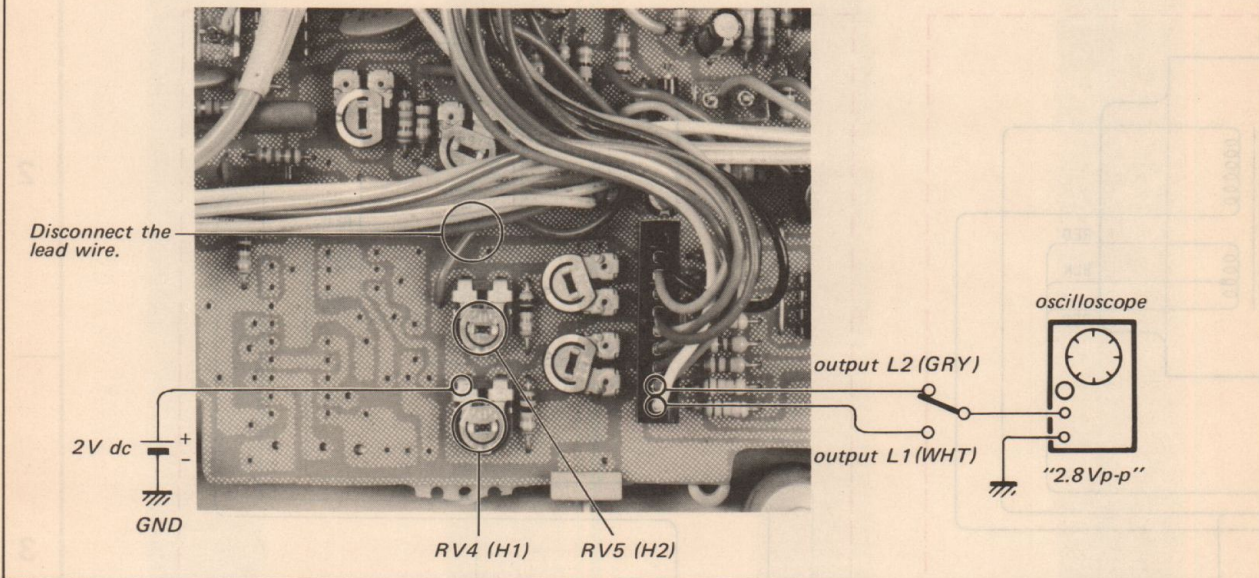


RV2 for 45 rpm ADJ RV1 for 33 rpm ADJ



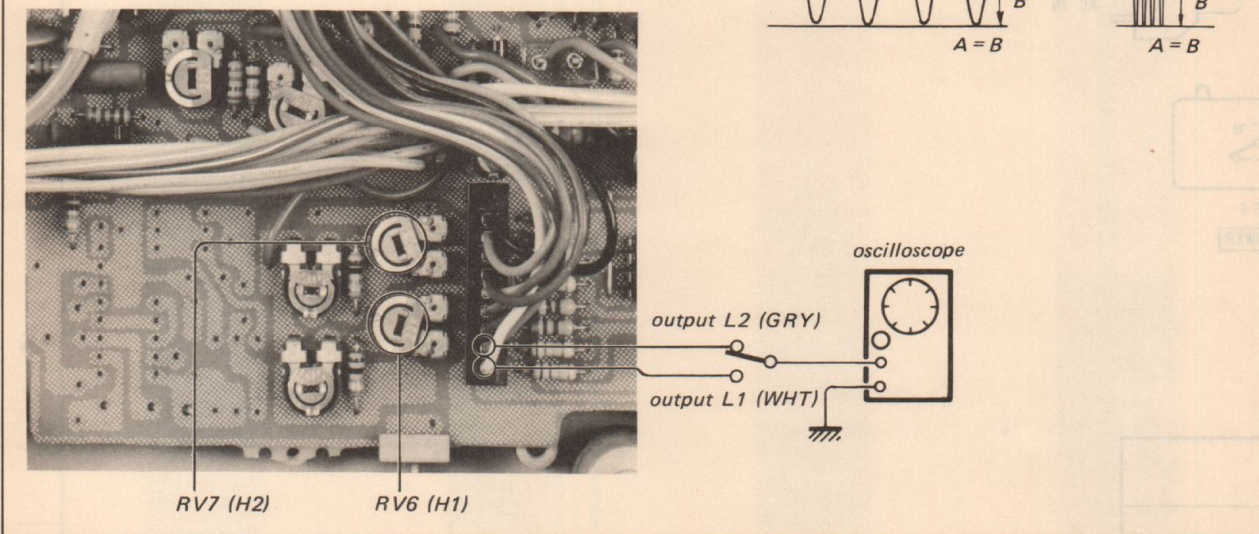
Hall Device Gain Adjustment

1. Disconnect the lead wire and connect the regulated power supply as shown below.
2. Connect an oscilloscope to L1 and adjust RV4 to obtain 2.8V peak to peak.
3. Likewise, adjust RV5 for L2.

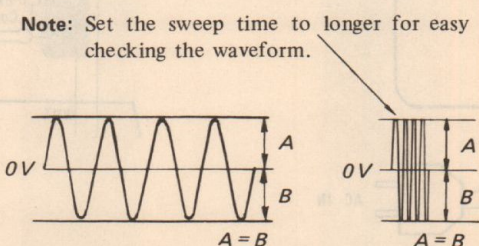


Motor Amp Offset Adjustment

1. Connect an oscilloscope to L1 and adjust RV6 to observe the waveform on an oscilloscope as shown below.
2. Connect an oscilloscope to L2 and adjust RV7 to observe the waveform on an oscilloscope as shown below.



Waveform on Oscilloscope:



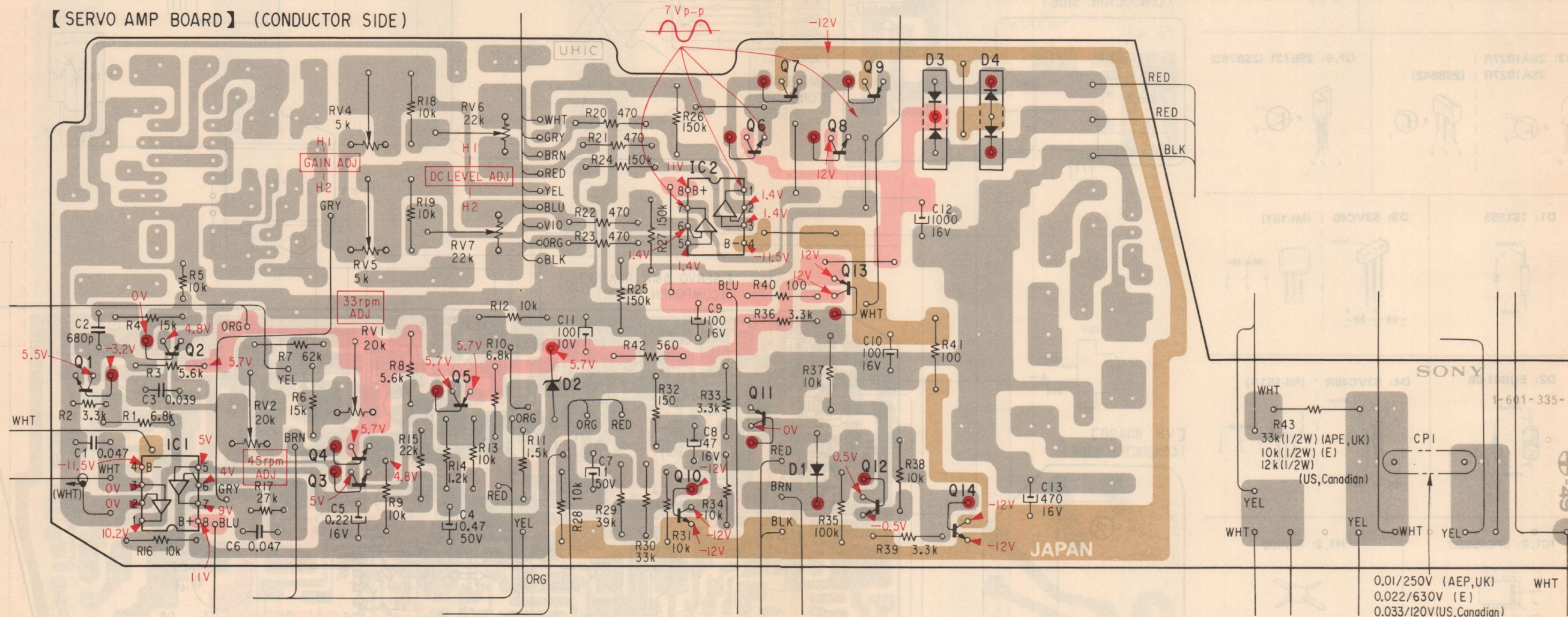
4-1. MOUNTING DIAGRAM

US, Canadian, UK, SCN Model

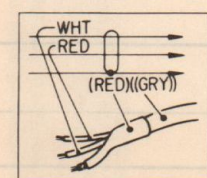
- Conductor Side -

1	2	3	4	5	6	7	8	9	10	11	12	13	14	D
1	IC1	4			IC2									Q, IC

[SERVO AMP BOARD] (CONDUCTOR SIDE)



Note:
 • : B+ pattern
 • : B- pattern
 • Color code of sleeving over the end of the jacket.



4-2. MOUNTING DIAGRAM

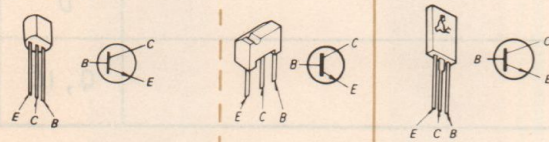
US, Canadian, UK, SCN Model

- Component Side -

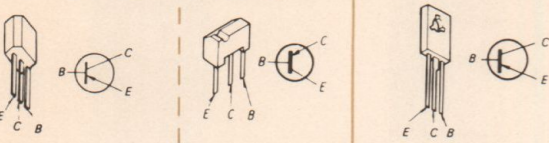
1 Replacement Semiconductors

For replacement, use semiconductors except in ().

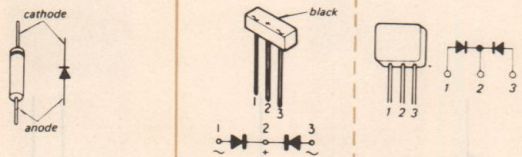
Q1-4, Q10, 12, 14 } : 2SC1364 (2SD637) Q6, 8: 2SD809 (2SD973)



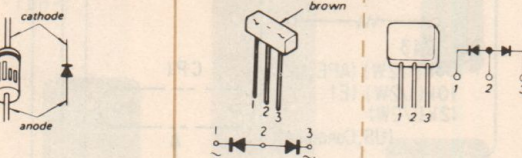
Q5, 13: 2SA1027R Q11: 2SA1027R (2SB642) Q7, 9: 2SB731 (2SB793)



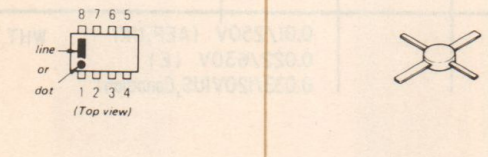
D1: 1S1555 D3: S3VC40 (MI-151)



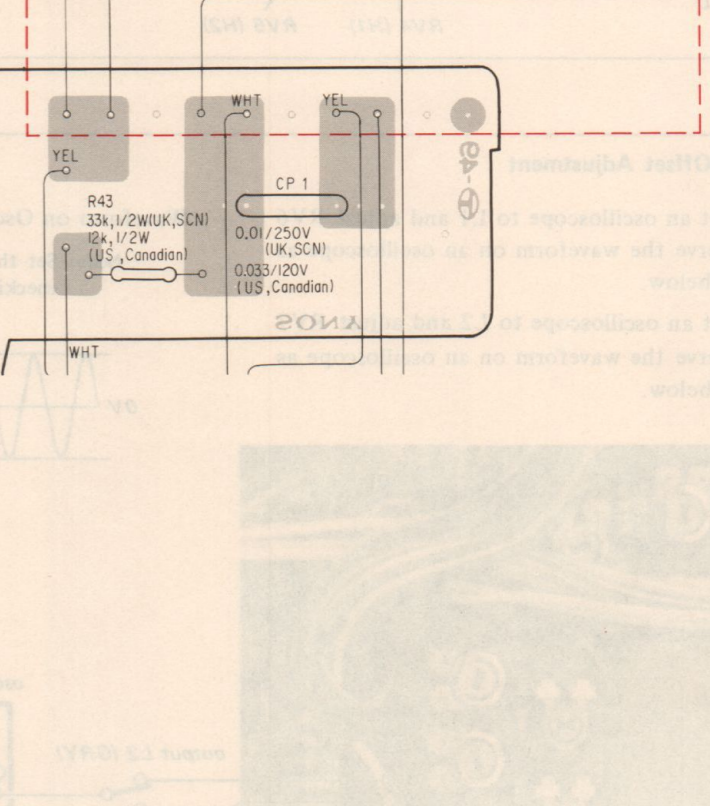
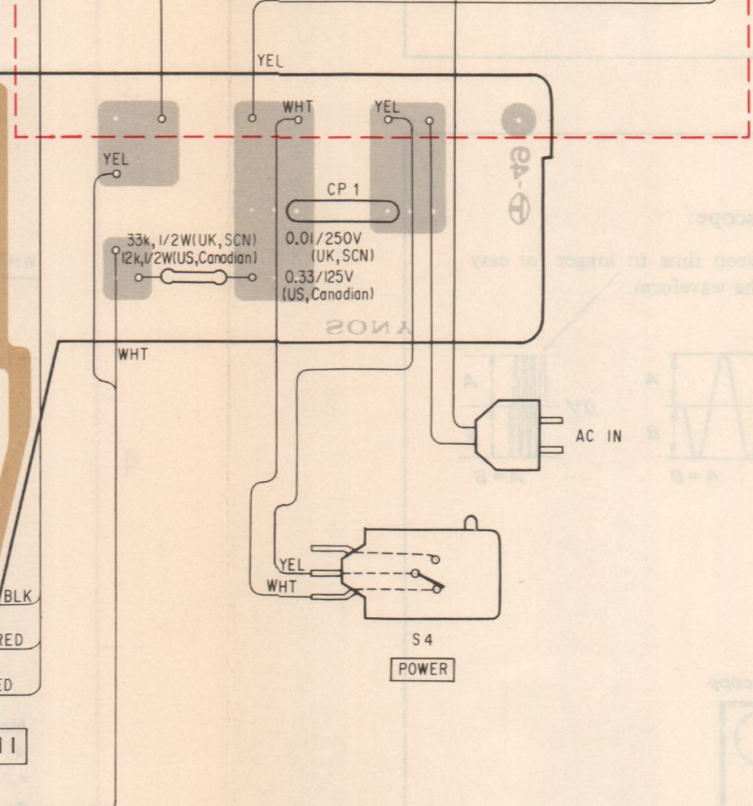
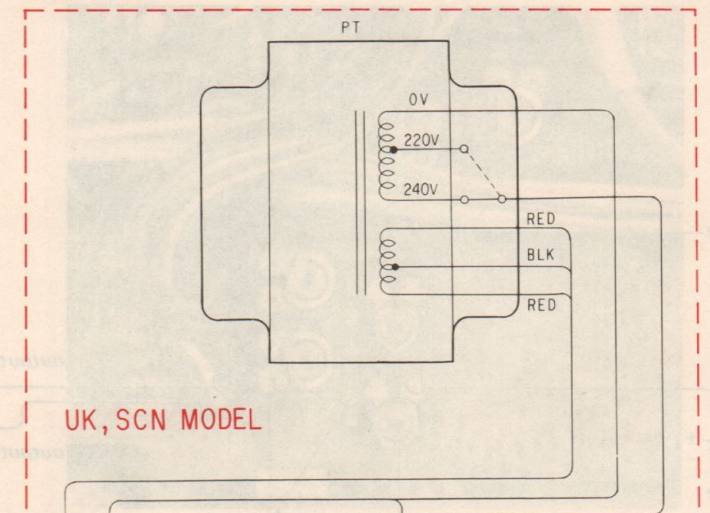
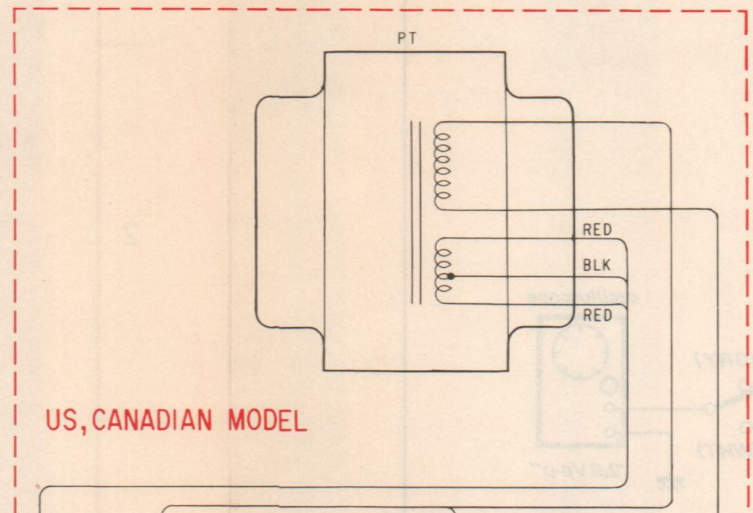
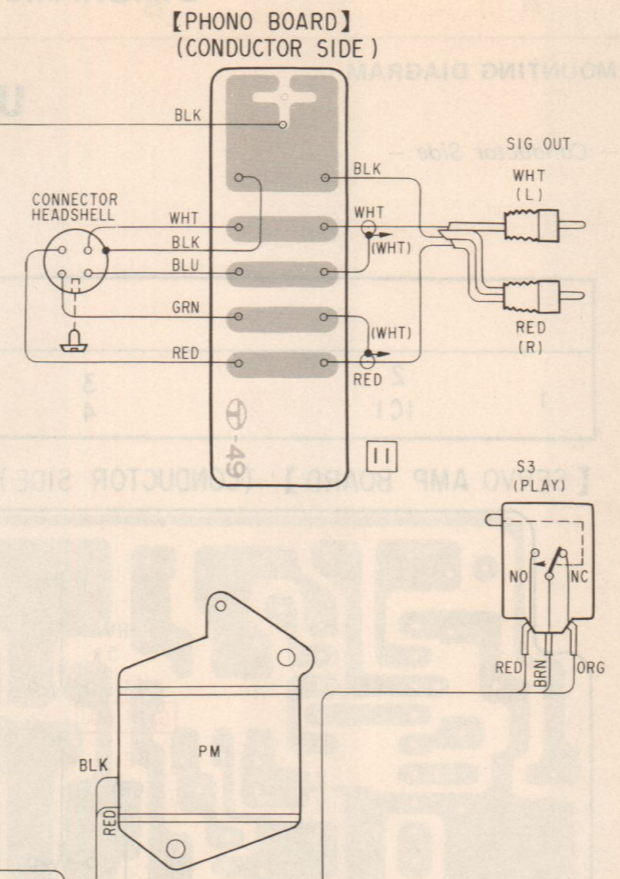
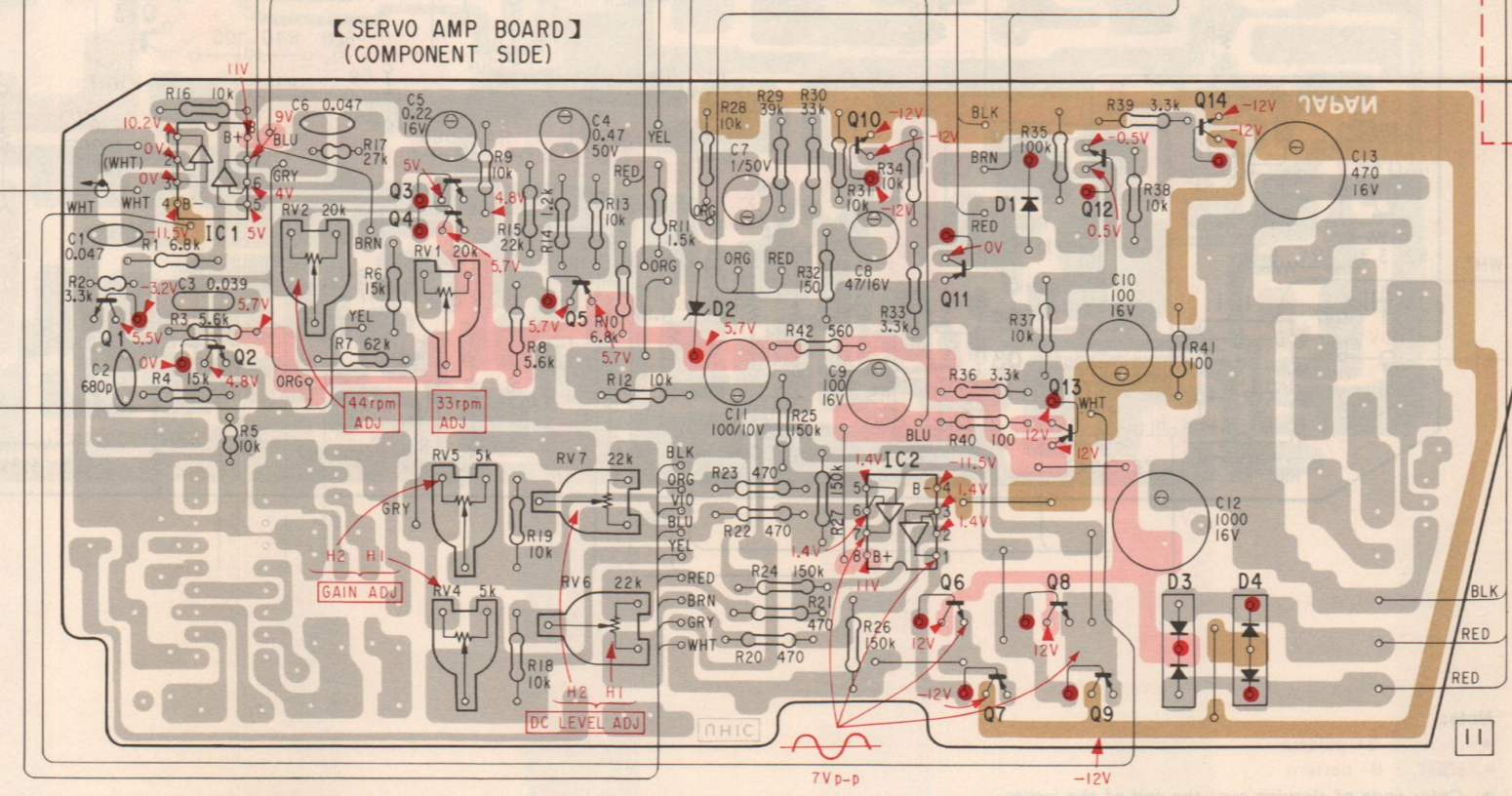
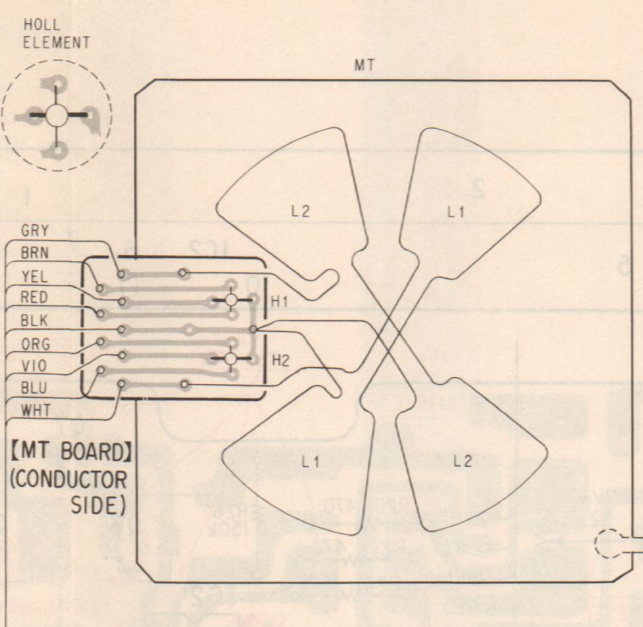
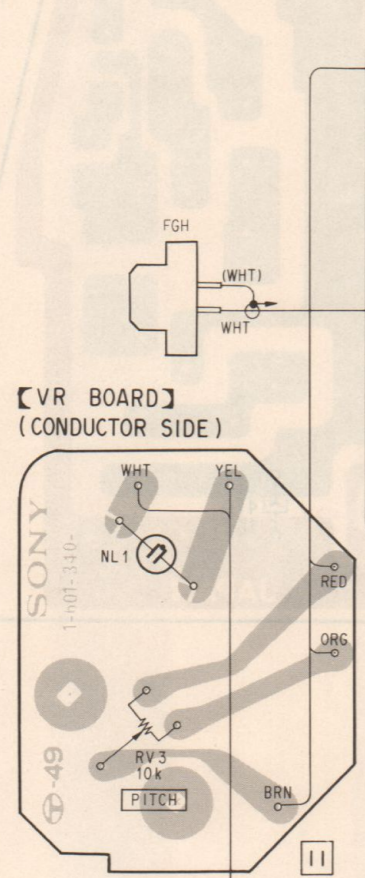
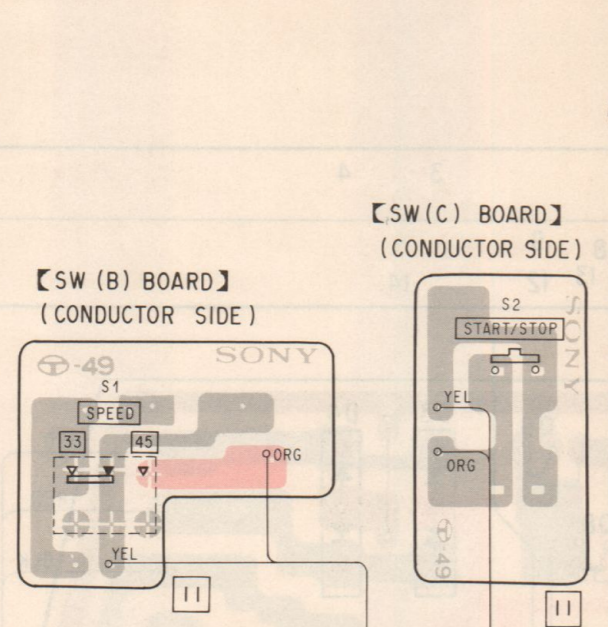
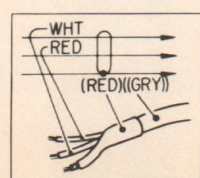
D2: EQB01-06 D4: S3VC40R (MI-151R)



IC1, 2: μPC4558C H1, 2: F-1409



Note:
 ● : B+ pattern
 ● : B- pattern
 ● Color code of sleeving over the end of the jacket.



Q	1	2	3	4	5	10	11	12	14
IC	IC1	IC2							
D		2		1			3	4	

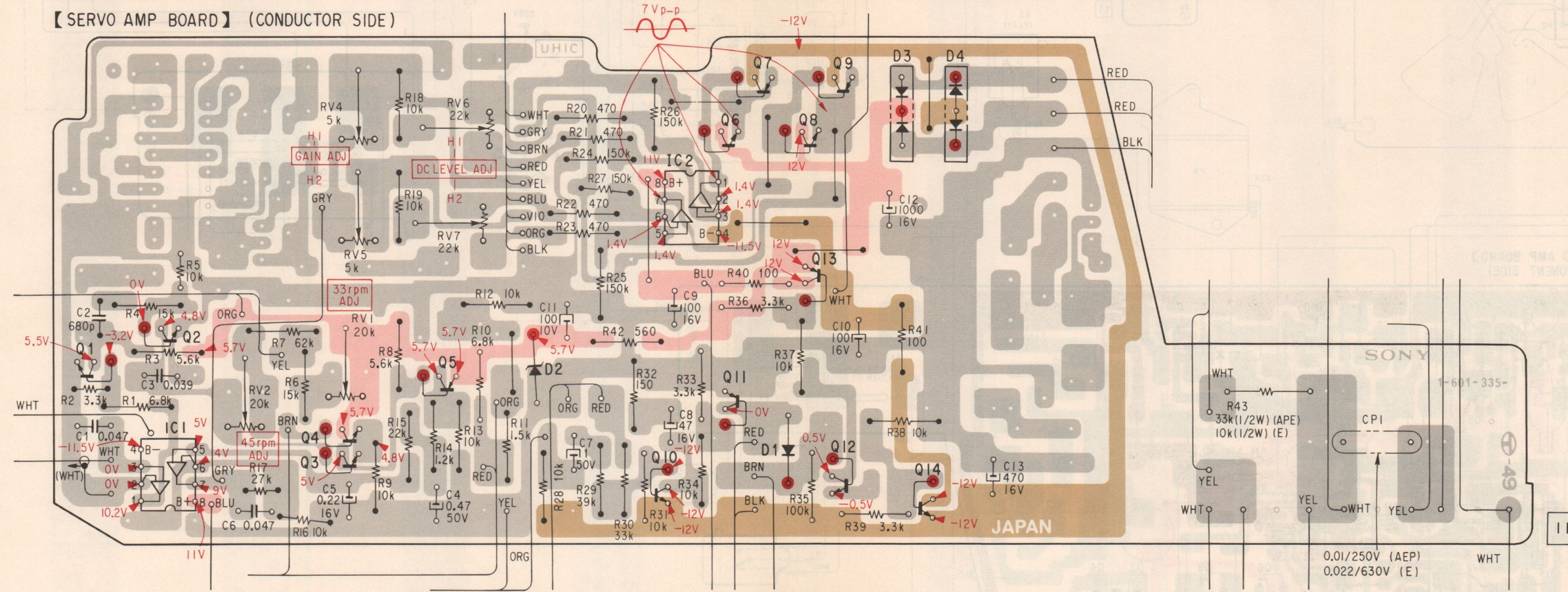
4.3. MOUNTING DIAGRAM

E, AEP Model

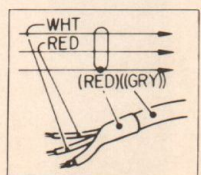
— Conductor Side —

		2			1				3 4		D			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	Q, IC

【SERVO AMP BOARD】 (CONDUCTOR SIDE)



- Note**
- : B+ pattern
 - : B- pattern
 - : MELF components.
 - : Color code of sleeving over the end of the jacket.

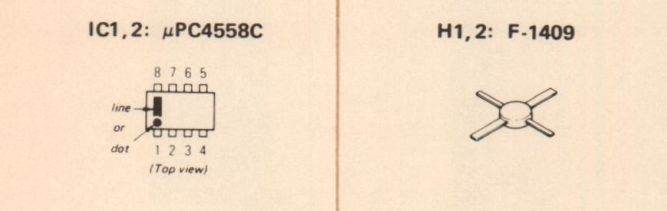
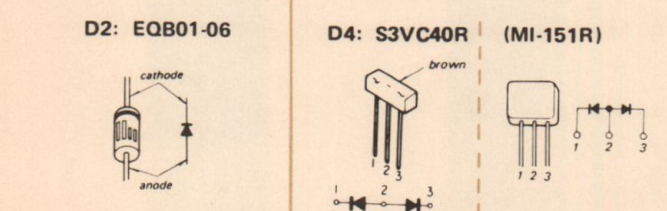
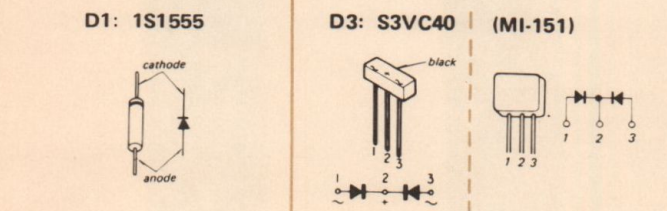
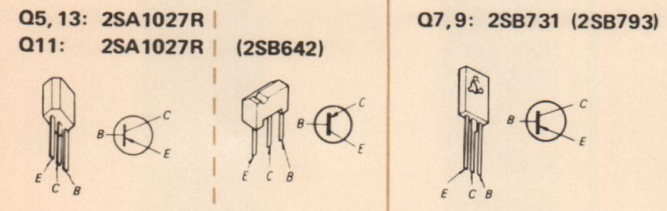
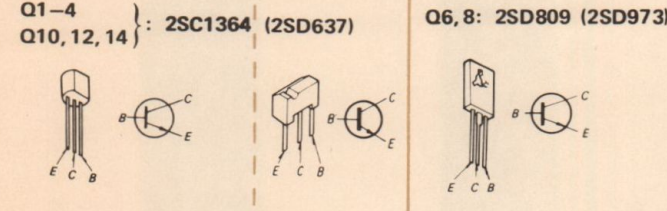


4-4. MOUNTING DIAGRAM

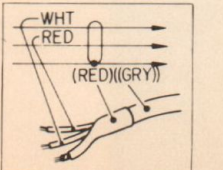
— Component Side —

Replacement Semiconductors

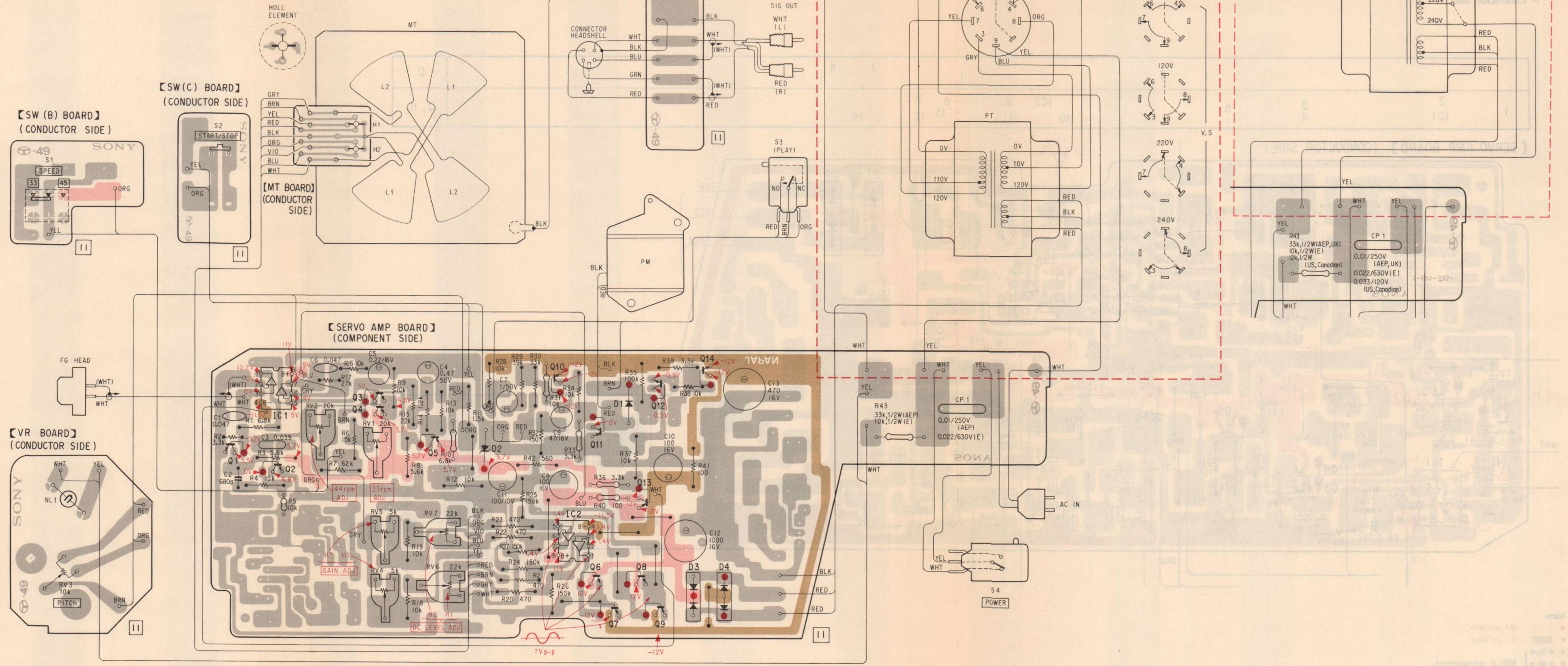
For replacement, use semiconductors except in ().



- Note
- : B+ pattern
 - : B- pattern
 - : MELF components
 - : Color code of sleeving over the end of the jacket.

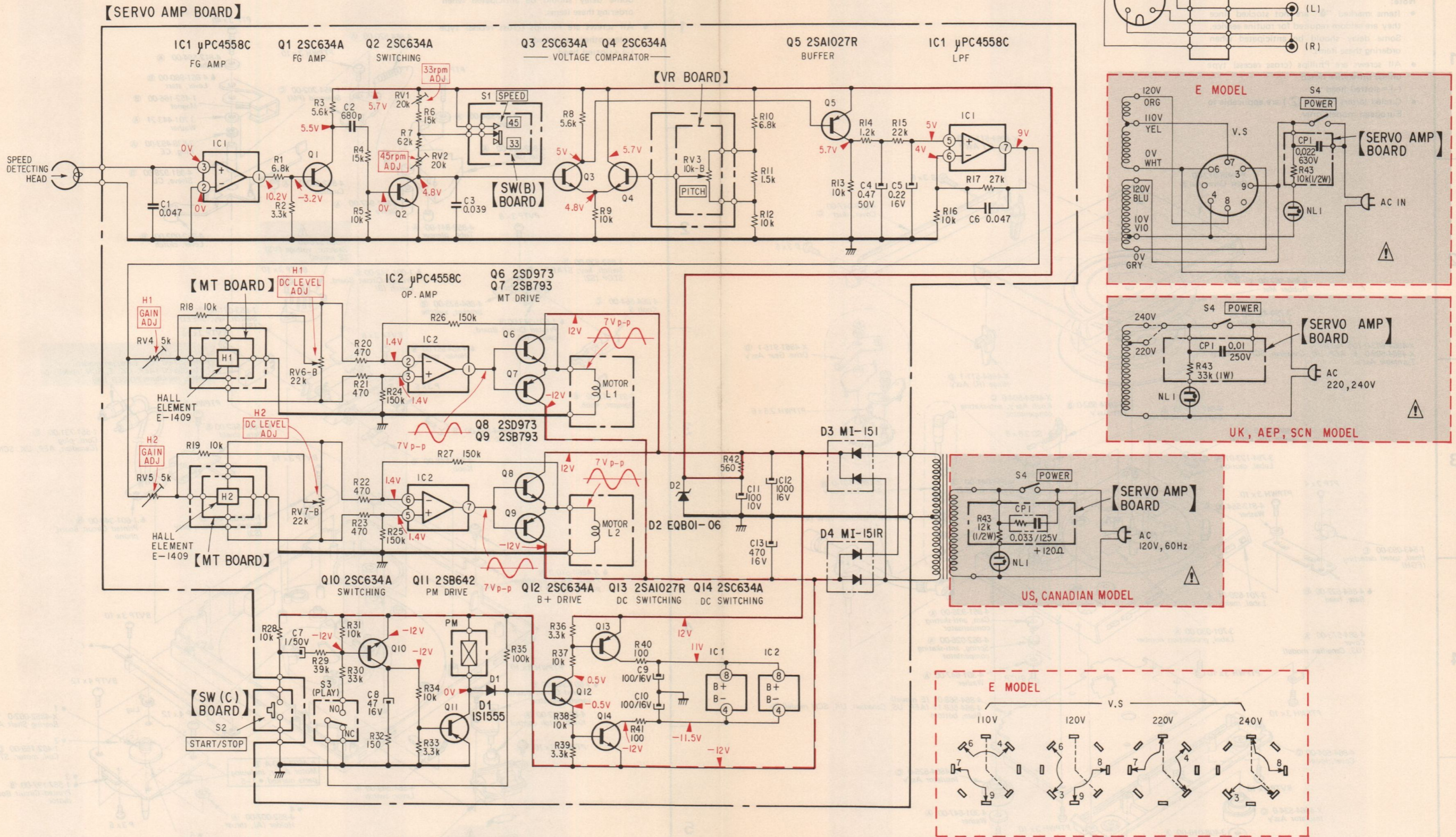


E, AEP Model



Q	1	IC1	2	3	4	5	10	11	12	14	
IC							IC2	6	7	8	9
D				2				1		3	4

4.3. SCHEMATIC DIAGRAM



Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ: 1000 Ω; MΩ: 1000 kΩ
- Voltage variations may be noted due to normal production tolerances.
- Readings are taken under no-signal 33 rpm X'TAL LOCK conditions with a VOM (20 kΩ/V).
- Transistor base-emitter voltages are measured on the 2.5V range.
- — : B+ bus.
- - - - : B- bus.
- □ : panel designation.
- ◻ : adjustment for repair.

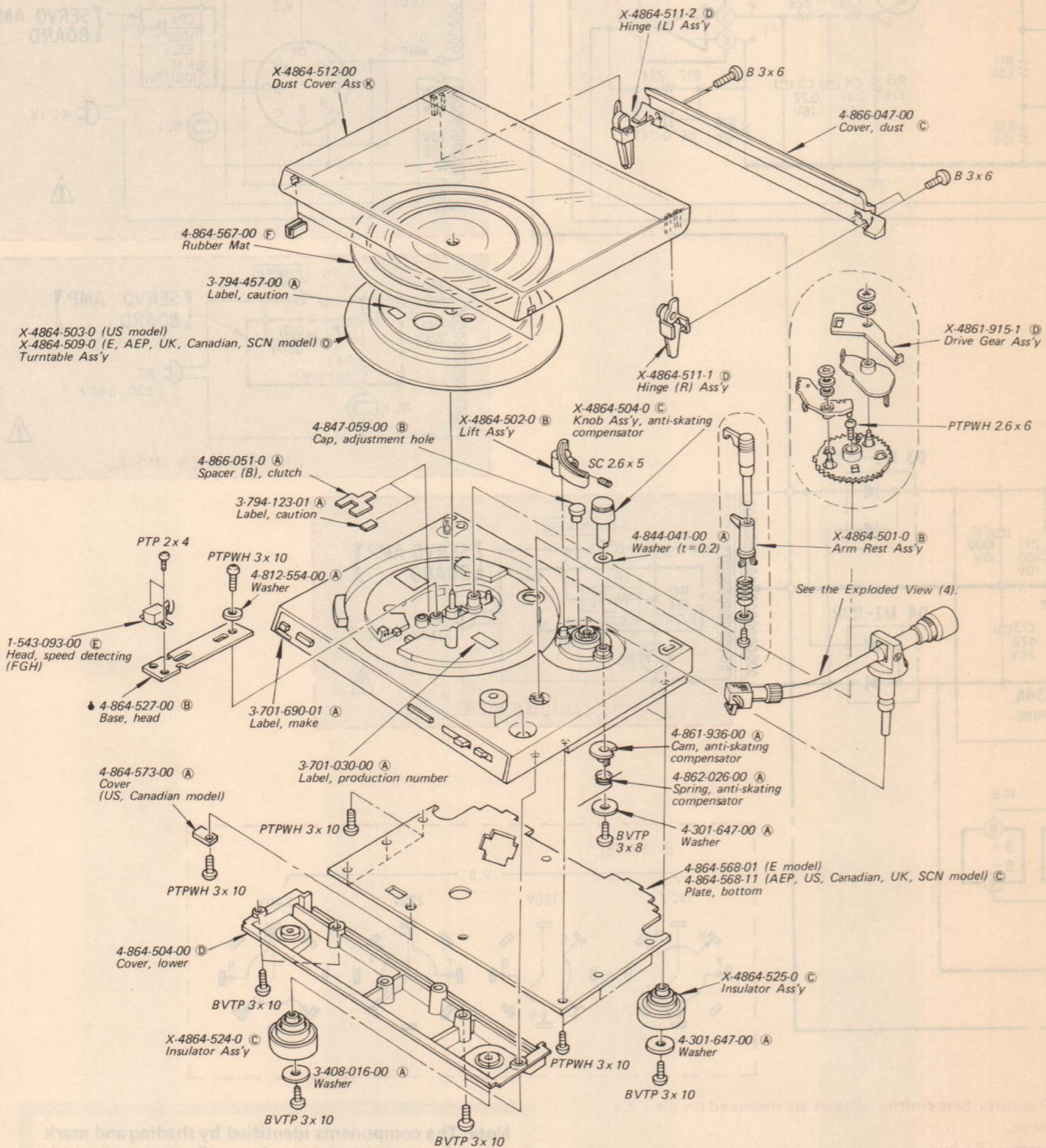
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

SECTION 5
EXPLODED VIEWS

(1)

Note:

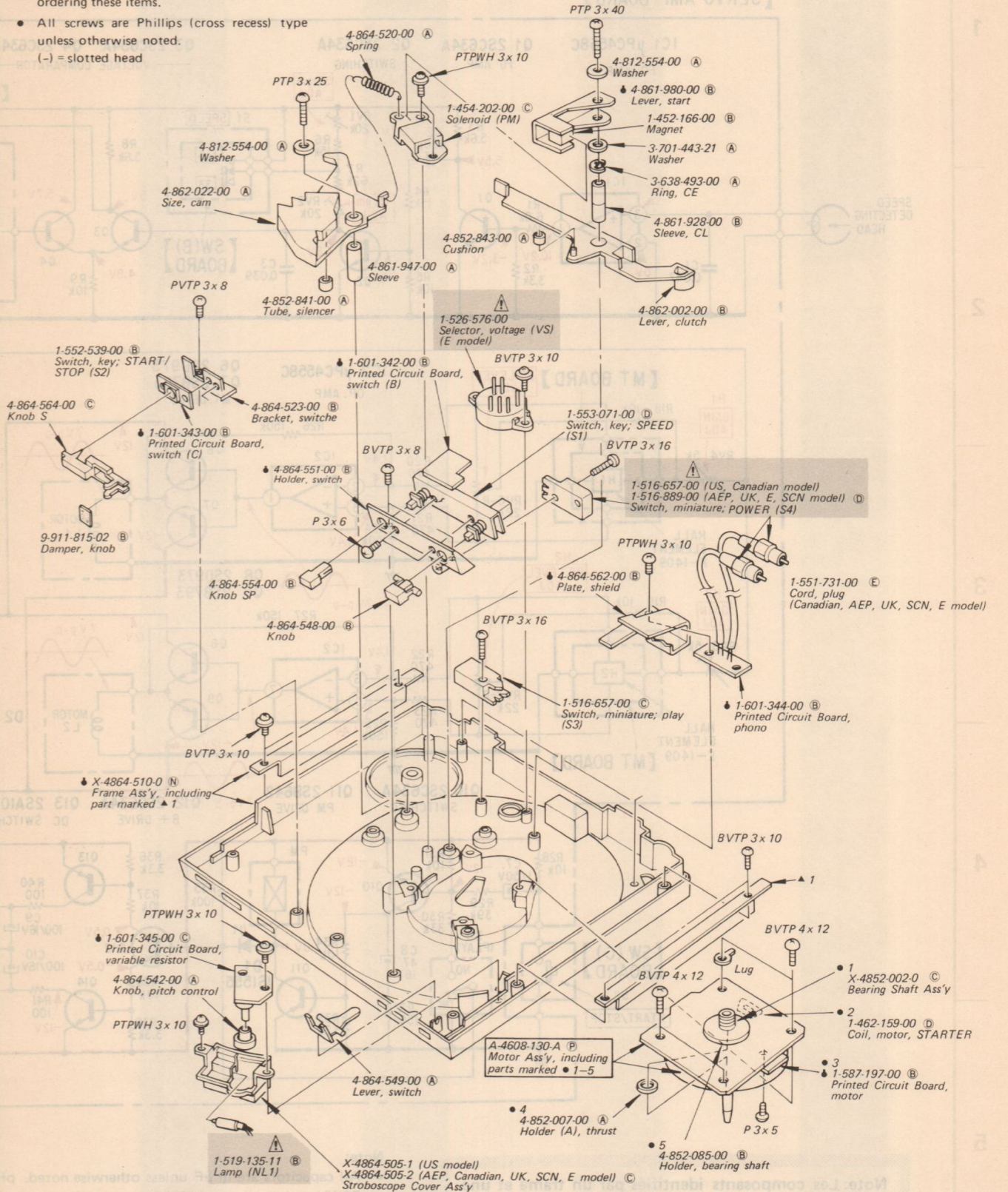
- Items marked "⚡" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head
- Circled letters (A to Z) are applicable to European models only.



(2)

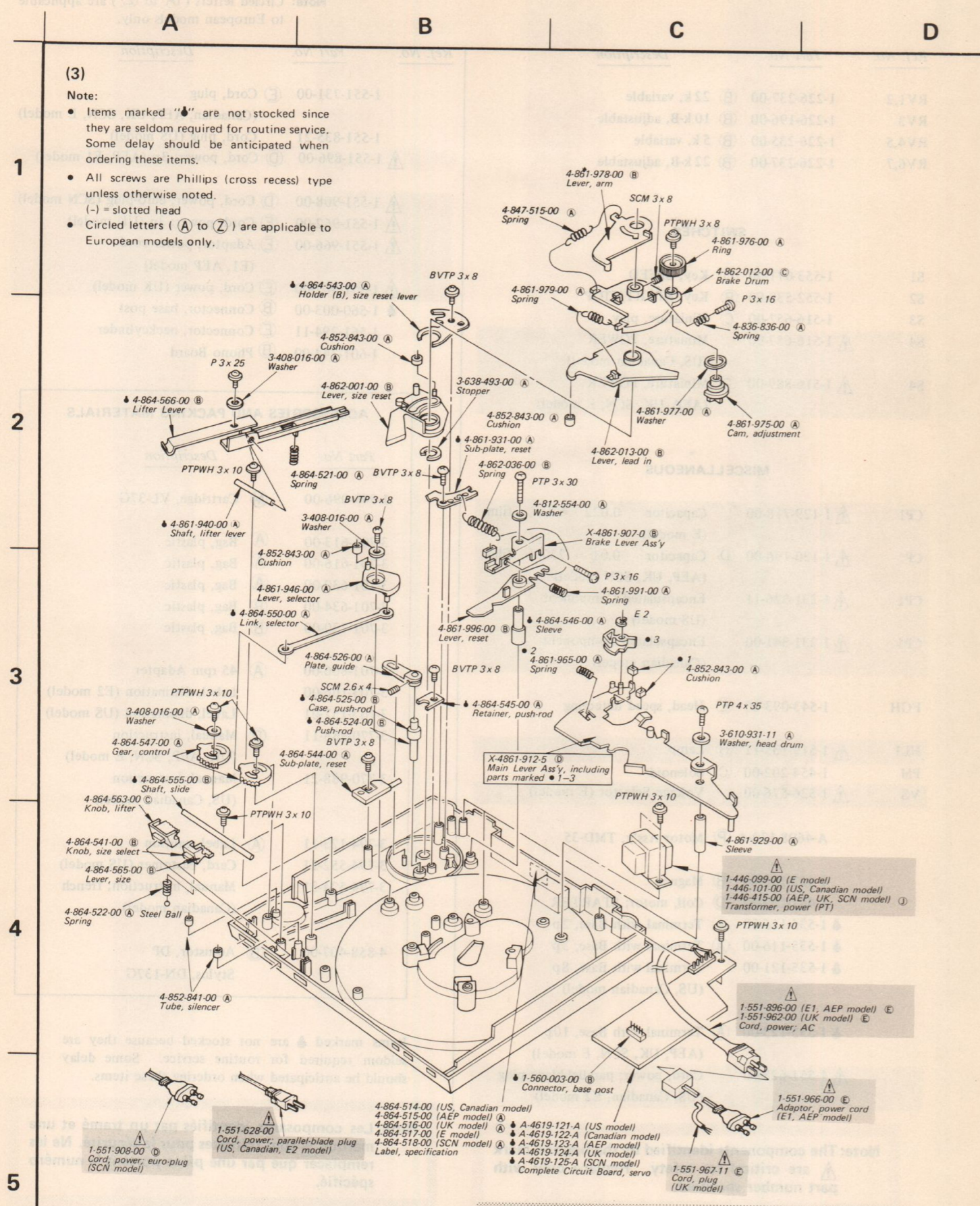
Note:

- Items marked "⚡" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head
- Circled letters (A to Z) are applicable to European models only.



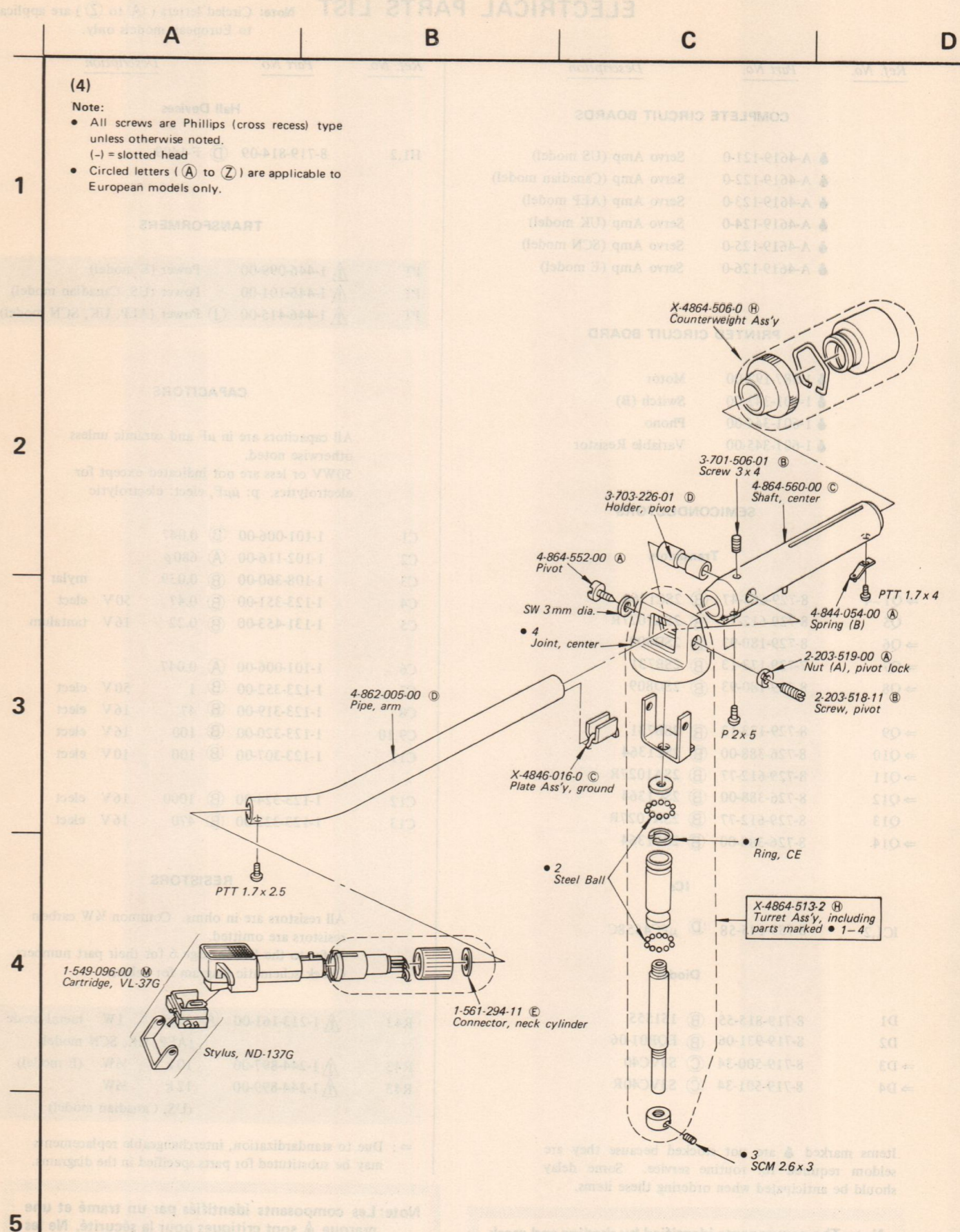
Note: Les composants identifiés par un trame et une marque ⚡ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: The components identified by shading and mark ⚡ are critical for safety. Replace only with part number specified.



Note: The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



SECTION 6
ELECTRICAL PARTS LIST

Note: Circled letters (A to Z) are applicable to European models only.

Note: Circled letters (A to Z) are applicable to European models only.

Ref. No.	Part No.	Description
COMPLETE CIRCUIT BOARDS		
♣ A-4619-121-0		Servo Amp (US model)
♣ A-4619-122-0		Servo Amp (Canadian model)
♣ A-4619-123-0		Servo Amp (AEP model)
♣ A-4619-124-0		Servo Amp (UK model)
♣ A-4619-125-0		Servo Amp (SCN model)
♣ A-4619-126-0		Servo Amp (E model)
PRINTED CIRCUIT BOARD		
♣ 1-587-197-00		Motor
♣ 1-601-342-00		Switch (B)
♣ 1-601-344-00		Phono
♣ 1-601-345-00		Variable Resistor
SEMICONDUCTORS		
Transistors		
⇒ Q1-4	8-729-663-47 (B)	2SC1364
Q5	8-729-612-77 (B)	2SA1027R
⇒ Q6	8-729-180-93 (B)	2SD809
⇒ Q7	7-729-173-13 (B)	2SB731
⇒ Q8	8-729-180-93 (B)	2SD809
⇒ Q9	8-729-173-13 (B)	2SB731
⇒ Q10	8-726-388-00 (B)	2SC1364
⇒ Q11	8-729-612-77 (B)	2SA1027R
⇒ Q12	8-726-388-00 (B)	2SC1364
Q13	8-729-612-77 (B)	2SA1027R
⇒ Q14	8-726-388-00 (B)	2SC1364
ICs		
IC1,2	8-759-145-58 (D)	μPC4558C
Diodes		
D1	8-719-815-55 (B)	1S1555
D2	8-719-931-06 (B)	EQB01-06
⇒ D3	8-719-500-34 (C)	S3VC40
⇒ D4	8-719-501-34 (C)	S3VC40R

Items marked ♣ are not stocked because they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description
Hall Devices		
H1,2	8-719-814-09 (D)	F-1409
TRANSFORMERS		
PT	⚠ 1-446-099-00	Power (E model)
PT	⚠ 1-446-101-00	Power (US, Canadian model)
PT	⚠ 1-446-415-00 (J)	Power (AEP, UK, SCN model)
CAPACITORS		
All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. p: μμF, elect: electrolytic		
C1	1-101-006-00 (B)	0.047
C2	1-102-116-00 (A)	680p
C3	1-108-360-00 (B)	0.039 mylar
C4	1-123-351-00 (B)	0.47 50V elect
C5	1-131-453-00 (B)	0.22 16V tantalum
C6	1-101-006-00 (A)	0.047
C7	1-123-352-00 (B)	1 50V elect
C8	1-123-319-00 (B)	47 16V elect
C9,10	1-123-320-00 (B)	100 16V elect
C11	1-123-307-00 (B)	100 10V elect
C12	1-123-324-00 (B)	1000 16V elect
C13	1-123-323-00 (B)	470 16V elect
RESISTORS		
All resistors are in ohms. Common ¼W carbon resistors are omitted. Refer to the list on page 6 for their part numbers. Check schematic diagram for values.		
R43	⚠ 1-213-161-00 (A)	33k 1W metal oxide (AEP, UK, SCN model)
R43	⚠ 1-244-897-00	10k ½W (E model)
R43	⚠ 1-244-899-00	12k ½W (US, Canadian model)

⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description
RV1,2	1-226-237-00 (B)	22 k, variable
RV3	1-226-196-00 (B)	10 k-B, adjustable
RV4,5	1-226-235-00 (B)	5 k, variable
RV6,7	1-226-237-00 (B)	22 k-B, adjustable
SWITCHES		
S1	1-553-071-00 (D)	Key, SPEED
S2	1-552-539-00 (B)	Key, START/STOP
S3	1-516-657-00 (C)	Miniature, play
S4	⚠ 1-516-657-00	Miniature, POWER (US, Canadian model)
S4	⚠ 1-516-889-00 (D)	Miniature, POWER (AEP, UK, SCN, E model)
MISCELLANEOUS		
CP1	⚠ 1-129-718-00	Capacitor 0.022 630V film (E model)
CP1	⚠ 1-130-196-00 (D)	Capacitor 0.01 250V film (AEP, UK, SCN model)
CP1	⚠ 1-231-326-11	Encapsulated Component (US model)
CP1	⚠ 1-231-341-00	Encapsulated Component (Canadian model)
FGH	1-543-093-00 (E)	Head, speed detecting
NL1	⚠ 1-519-135-11 (B)	Lamp
PM	1-454-202-00 (C)	Solenoid
VS	⚠ 1-526-576-00	Voltage Selector (E model)
A-4608-130-A (P)		Motor Ass'y, TMD-35
1-452-166-00 (B)		Magnet
1-462-159-00 (D)		Coil, motor; STARTER
♣ 1-535-115-00 (A)		Terminal with Base, 2p
♣ 1-535-116-00 (A)		Terminal with Base, 3p
♣ 1-535-121-00		Terminal with Base, 8p (US, Canadian model)
♣ 1-535-123-00 (A)		Terminal with Base, 10p (AEP, UK, SCN, E model)
⚠ 1-551-628-00		Cord, power; parallel-blade plug (US, Canadian, E2 model)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description
	1-551-731-00 (E)	Cord, plug (Canadian, AEP, UK, SCN, E model)
	1-551-835-21	Cord, plug (US model)
⚠	1-551-896-00 (D)	Cord, power; 3p (AEP, E1 model)
⚠	1-551-908-00 (D)	Cord, power; euro-plug (SCN model)
⚠	1-551-962-00 (E)	Cord, power; 3p (UK model)
⚠	1-551-966-00 (E)	Adaptor, power cord (E1, AEP model)
⚠	1-551-967-00 (E)	Cord, power (UK model)
♣	1-560-003-00 (B)	Connector, base post
	1-561-294-11 (E)	Connector, neckycylinder
	1-601-344-00 (B)	Phono Board

ACCESSORIES AND PACKING MATERIALS

Part No.	Description
1-549-096-00 (M)	Cartridge, VL-37G
3-701-613-00 (A)	Bag, plastic
3-701-616-00 (A)	Bag, plastic
3-701-630-00 (A)	Bag, plastic
3-701-634-00 (B)	Bag, plastic
3-701-730-00 (B)	Bag, plastic
3-701-806-00 (A)	45 rpm Adapter
3-703-106-00	Label, destination (E2 model)
3-703-157-01	Label, destination (US model)
3-770-988-11 (D)	Manual, instruction (UK, AEP, SCN, E model)
3-770-988-21	Manual, instruction (US, Canadian model)
3-794-123-11 (A)	Label, caution
3-794-552-21	Card, customer (US model)
3-794-574-31	Manual, instruction; french (Canadian model)
4-858-407-00 (B)	Adjustor, DP Stylus, DN-137G

Items marked ♣ are not stocked because they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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STEREO TURNTABLE SYSTEM

PS-333

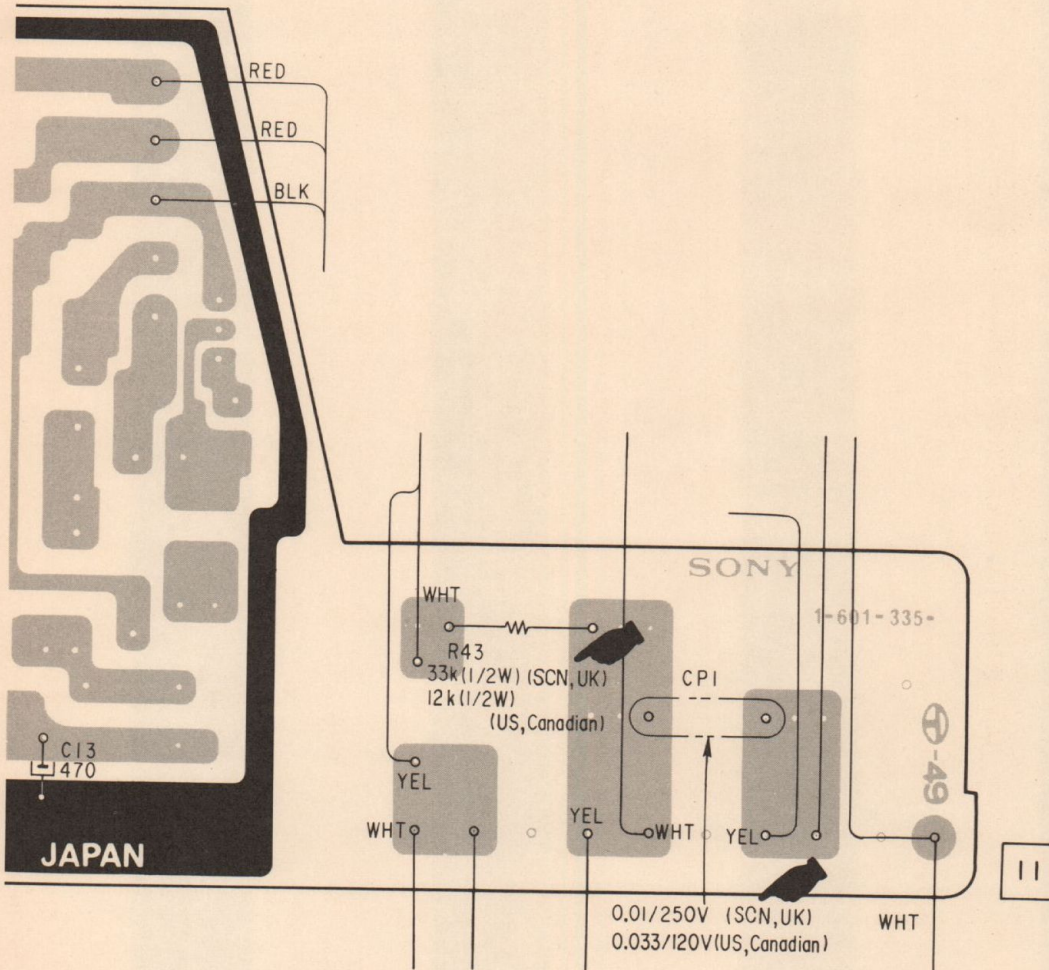
*US Model
AEP Model
E Model
SCN Model
Canadian Model
UK Model*

CORRECTION

No. 1
September, 1979

 : Corrected portions.

— Page 13 —



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SERVICE MANUAL

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