PS-6750

UK Model
AEP Model

STEREO TURNTABLE SYSTEM

SPECIFICATIONS

TURNTABLE

Platter:	32 cm (12⅝"), diecast aluminum alloy
Drive System:	DC sevo-controlled motor, direct drive
Speeds:	33⅓ and 45 rpm
Speed Control Range:	±4 %
Starting Time:	Within ½ turn (33⅓ rpm)
Wow and Flutter:	Less than ±0.045 % (DIN 45 507 weighted)
S/N Ratio:	Batter than 70 dB (DIN 45 539, B-curve weighted)

TONEARM

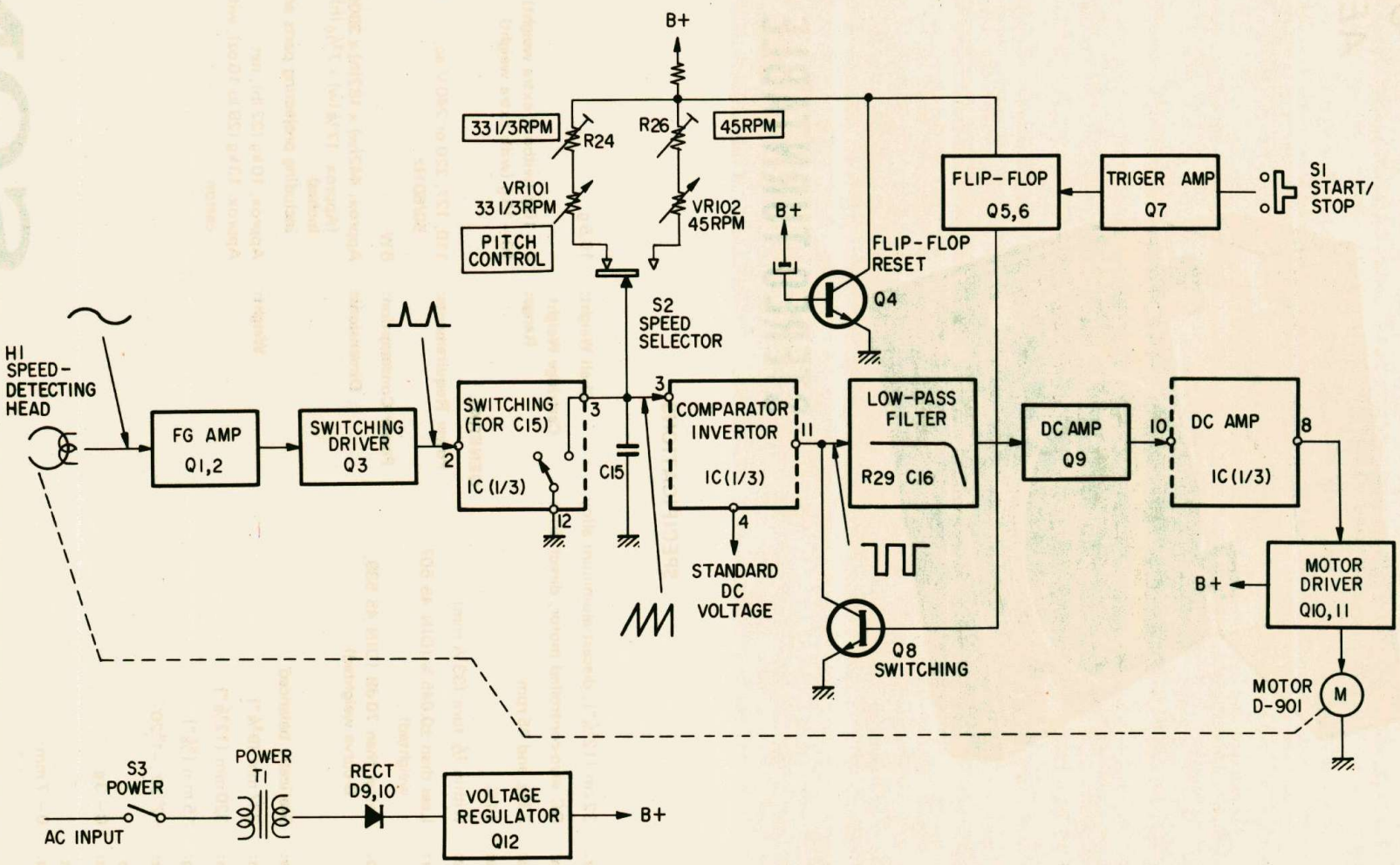
Type:	Statically balanced
Pivot to Stylus Length:	237 mm (9⅜")
Overall Arm Length:	320 mm (12⅝")
Overhang:	15 mm (⅝")
Tracking Error:	+2° 30', -1° 20'
Tracking-force Adjustment Range:	0 – 3 g
Arm Height Adjustment Range:	0 – 7 mm
Shell Weight:	10.5 g
Cartridge Weight Range:	4 – 10 g (without extra weight) 10 – 15 g (with extra weight)

GENERAL

Power Requirements:	110, 127, 220 or 240 V ac, 50/60 Hz
Power Consumption:	6 W
Dimensions:	Approx. 442(w) x 182(h) x 390(d) mm (Approx. 17⅜(w) x 7³/₁₆(h) x 15⅜(d) inches) including projecting parts and controls
Weight:	Approx. 10 kg (22 lb), net Approx. 13 kg (28 lb 10 oz), with shipping carton

SONY®

SERVICE MANUAL



SECTION 2
EXTERNAL AND INTERNAL VIEWS

2-1. EXTERNAL VIEW

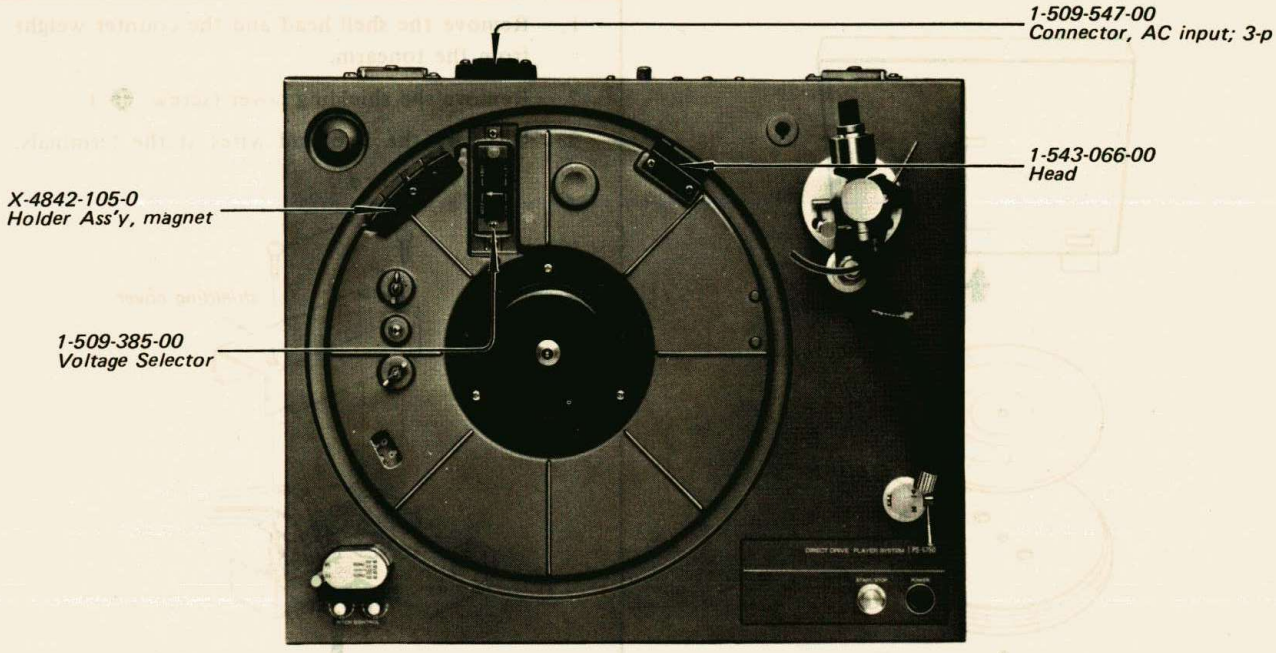


Fig. 2-1.

2-2. INTERNAL VIEW

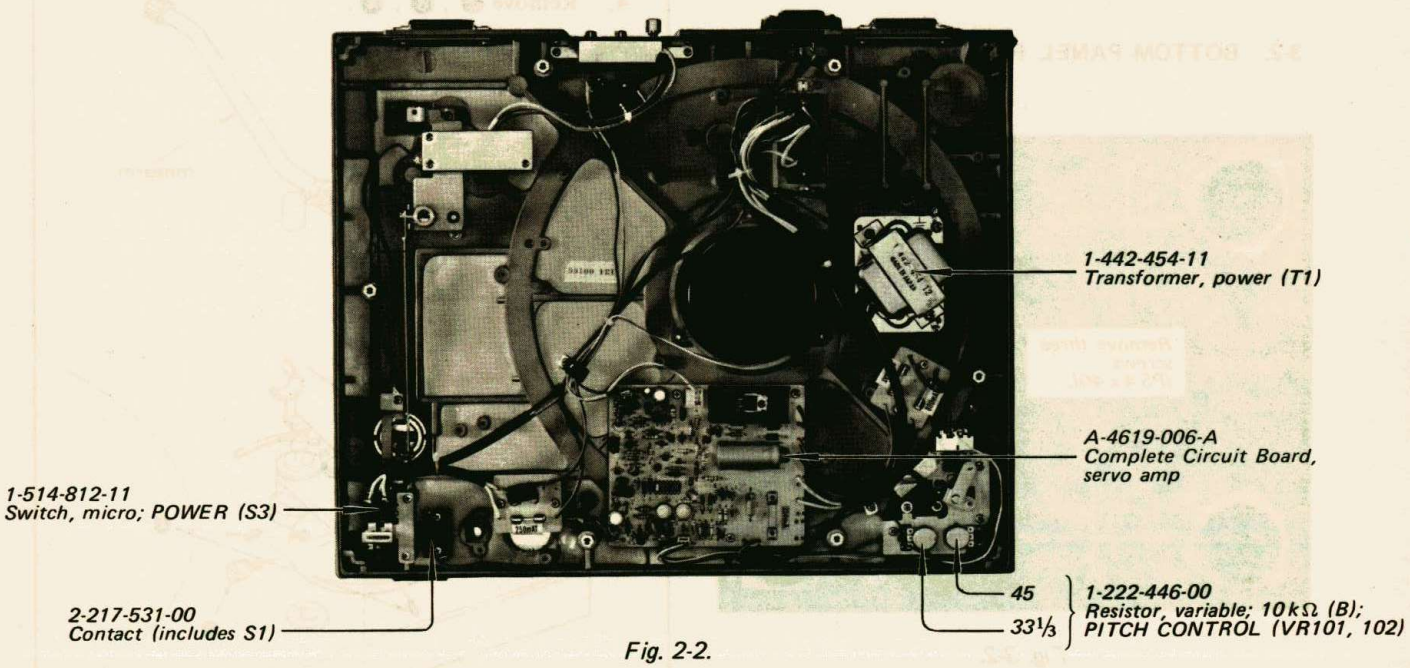


Fig. 2-2.

SECTION 3
REMOVAL, REPLACEMENT AND ADJUSTMENT

3-1. TURNTABLE REMOVAL

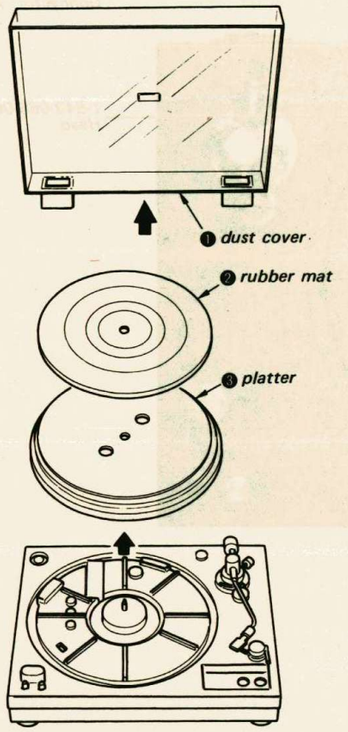


Fig. 3-1.

3-2. BOTTOM PANEL REMOVAL

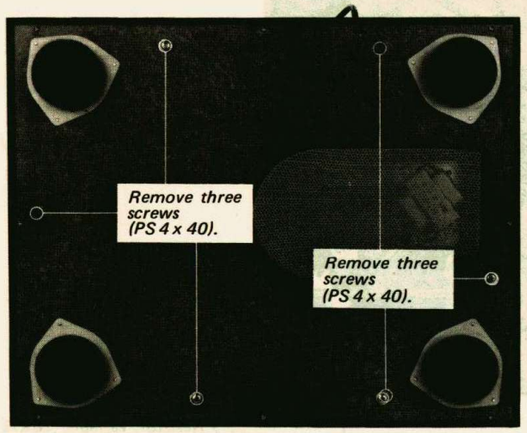


Fig. 3-2.

3-3. TONEARM REPLACEMENT

1. Remove the shell head and the counter weight from the tonearm.
2. Remove the shielding cover (screw ❶).
3. Unsolder the five lead wires at the terminals.

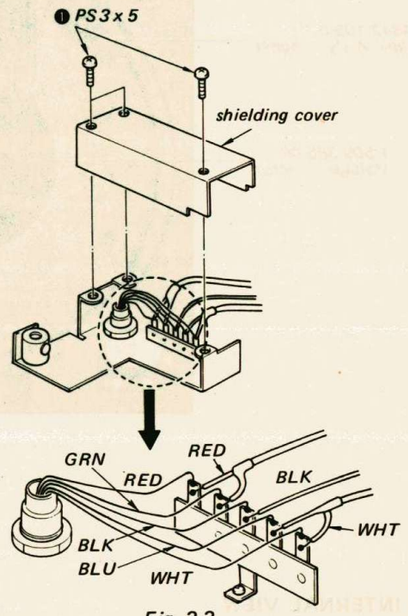


Fig. 3-3.

4. Remove ❷ , ❸ , ❹ .
5. Replace the tonearm.

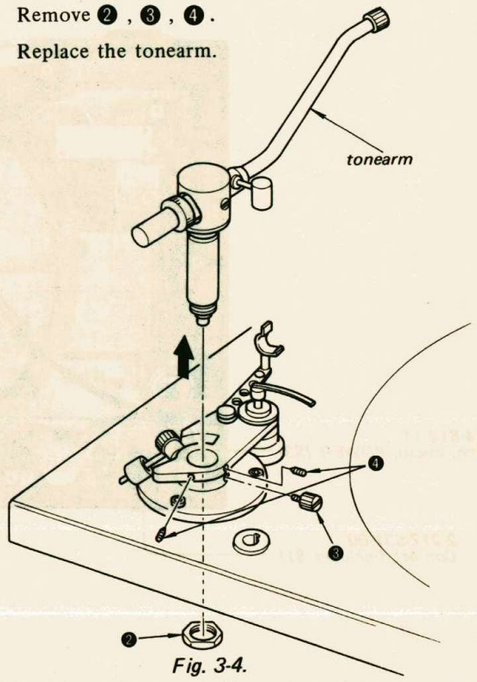


Fig. 3-4.

3-4. MOTOR REPLACEMENT

1. Disconnect the two lead wires from the servo amp board.
2. Remove the two screws (❶).

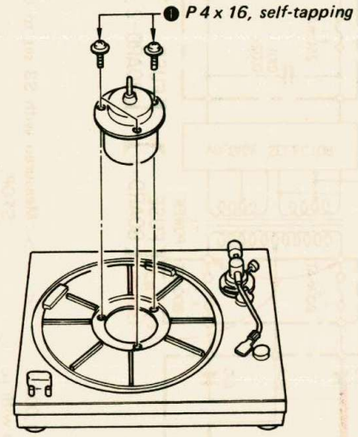


Fig. 3-5.

3-5. TONEARM HEIGHT ADJUSTMENT

1. Place a record on the turntable.
2. Lift the lifter lever up (▼), and bring the arm over the record.
3. Loosen the arm height adjustment lever. Holding the lifter base, lift the arm axis up and down so that the stylus tip is 4-7 mm (5/32" – 9/32") above the record and secure the arm axis by turning the arm height adjustment lever toward right as shown below.

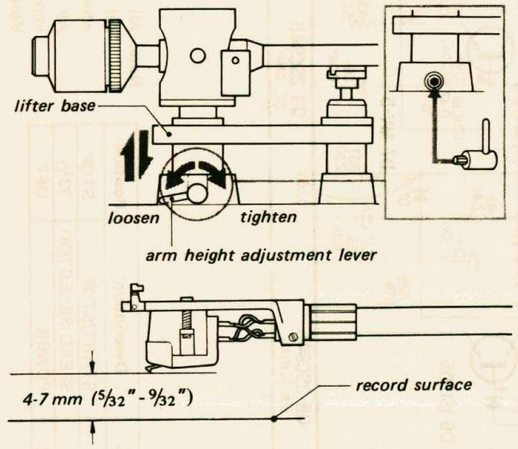


Fig. 3-6.

4. Ensure that the stylus touches the record surface when lowered and there exists approximately 1 mm (3/64") space between the arm pipe and arm lifter.
If not, adjust the height of the arm lifter by loosening the arm lifter screw.

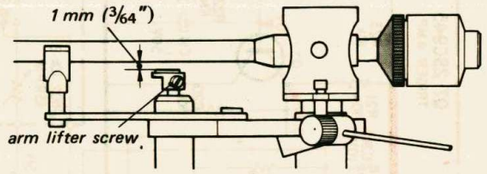


Fig. 3-7.

3-6. SPEED CONTROL ADJUSTMENT

1. Turn the two pitch control knobs on the frame to the mechanical-mid position.
2. Adjust SPEED CONTROL – R24 (33 1/3 rpm), R26 (45 rpm) – shown in Fig. 3-8 so that the stroboscope pattern appears stationary.

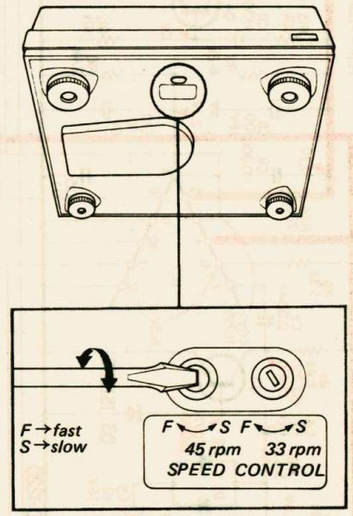
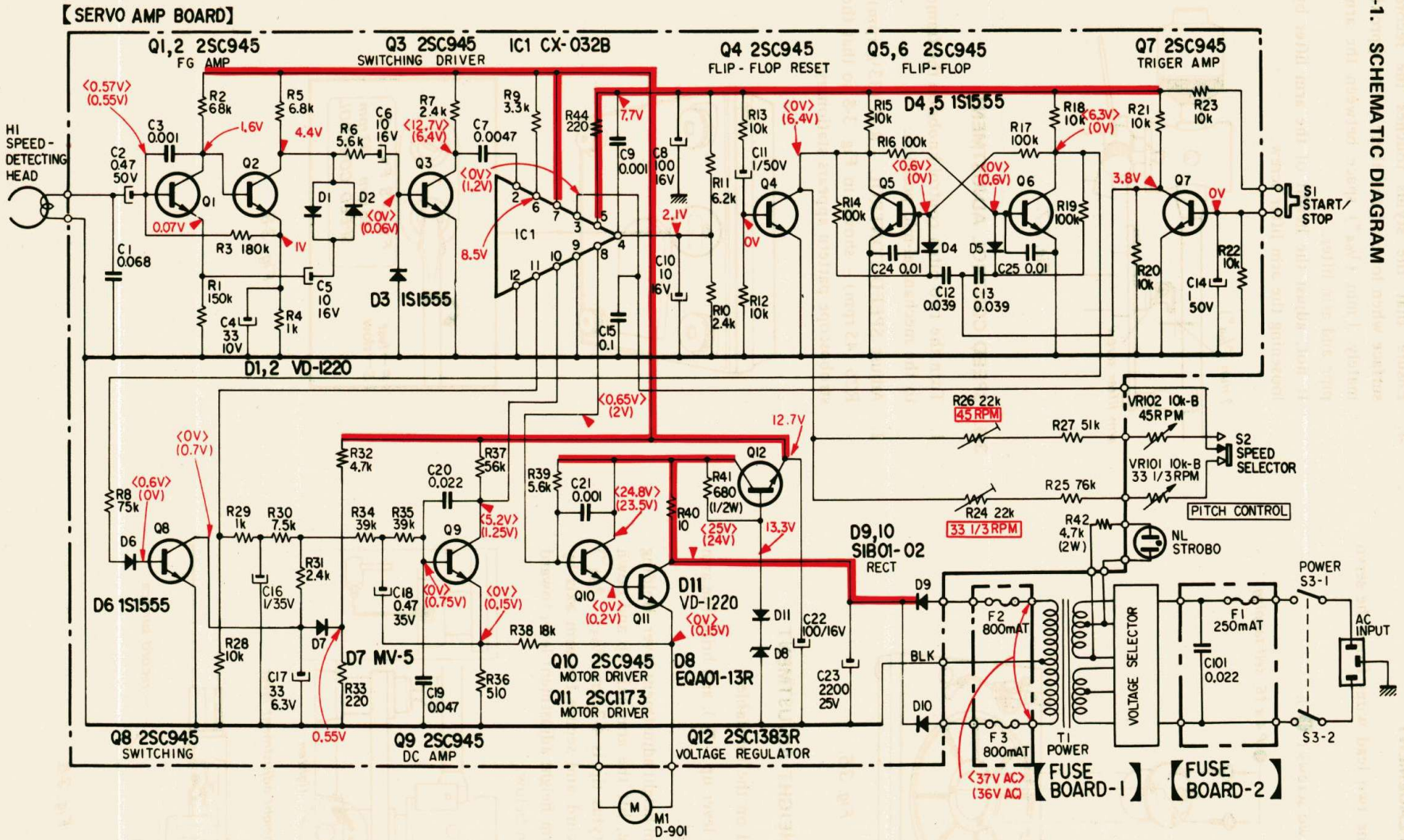


Fig. 3-8.



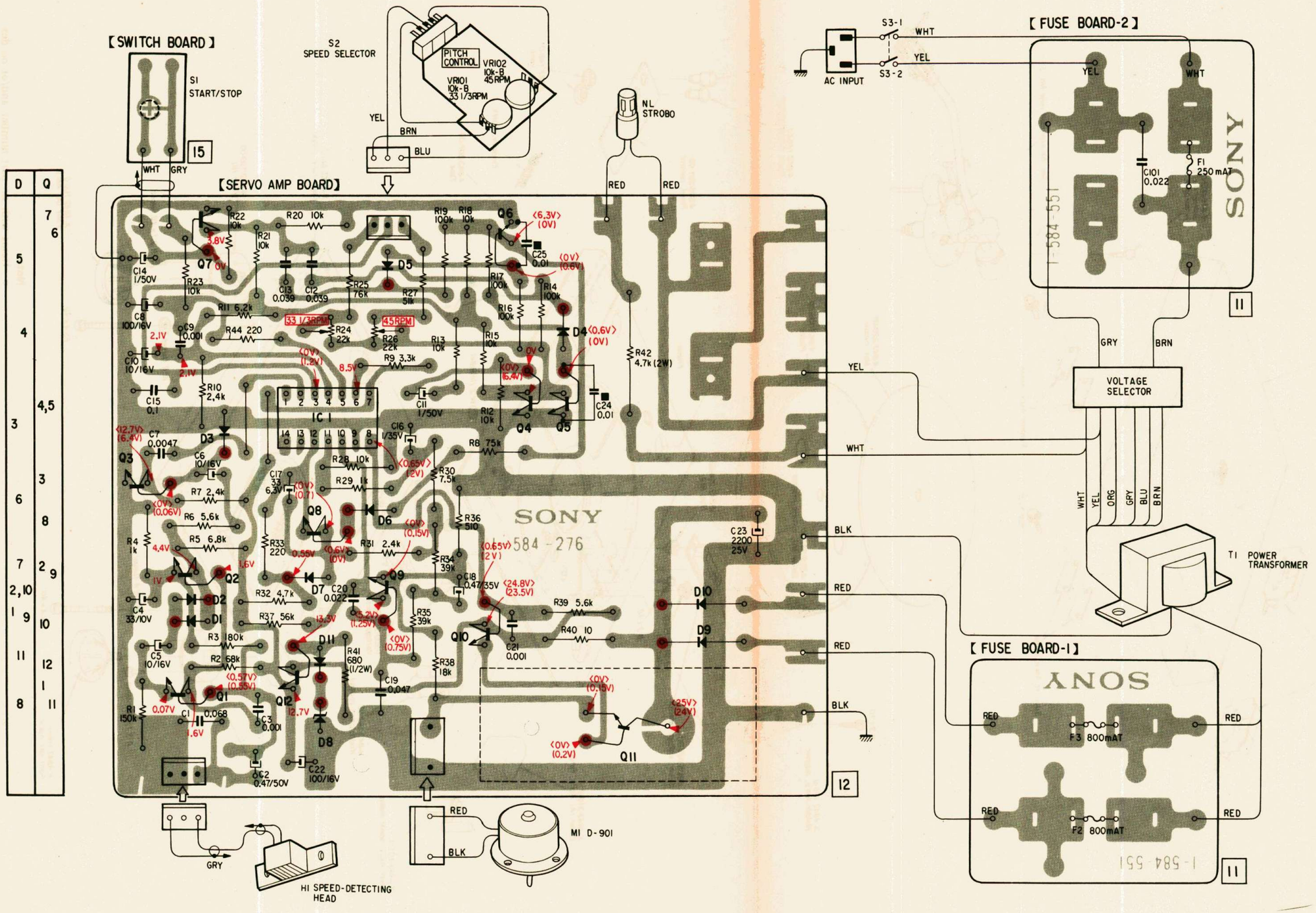
Ref. No.	Description	Position
S1	START/STOP	STOP
S2	SPEED SELECTOR	33⅓
S3-1~2	POWER	OFF

Note: All resistance values are in ohms. k = 1,000, M = 1,000 k.
All capacitance values are in μF except as indicated with p, which means μμF.
All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.
Voltage variations may be noted because of normal production tolerances.

< > : Measured with S3 set to ON, and with S1 set to STOP.
( ) : Measured when the turntable is turning at 33⅓ rpm or 45 rpm correctly.
indicates B + circuit.

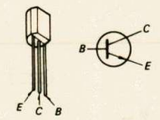
4-2. MOUNTING DIAGRAM

– Conductor Side –

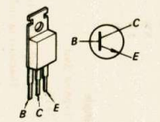


Note: ■ indicates the parts on the conductor side.
●— indicates lead wire connection on the conductor side.
○— indicates lead wire connection through the component side.

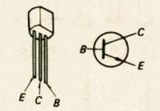
Q1~10: 2SC945



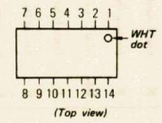
Q11: 2SC1173



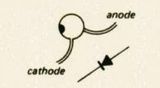
Q12: 2SC1383R



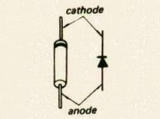
IC1: CX-032B



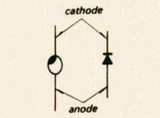
D1, 2, 11: VD-1220



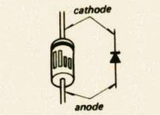
D3~6: 1S1555



D7: MV-5



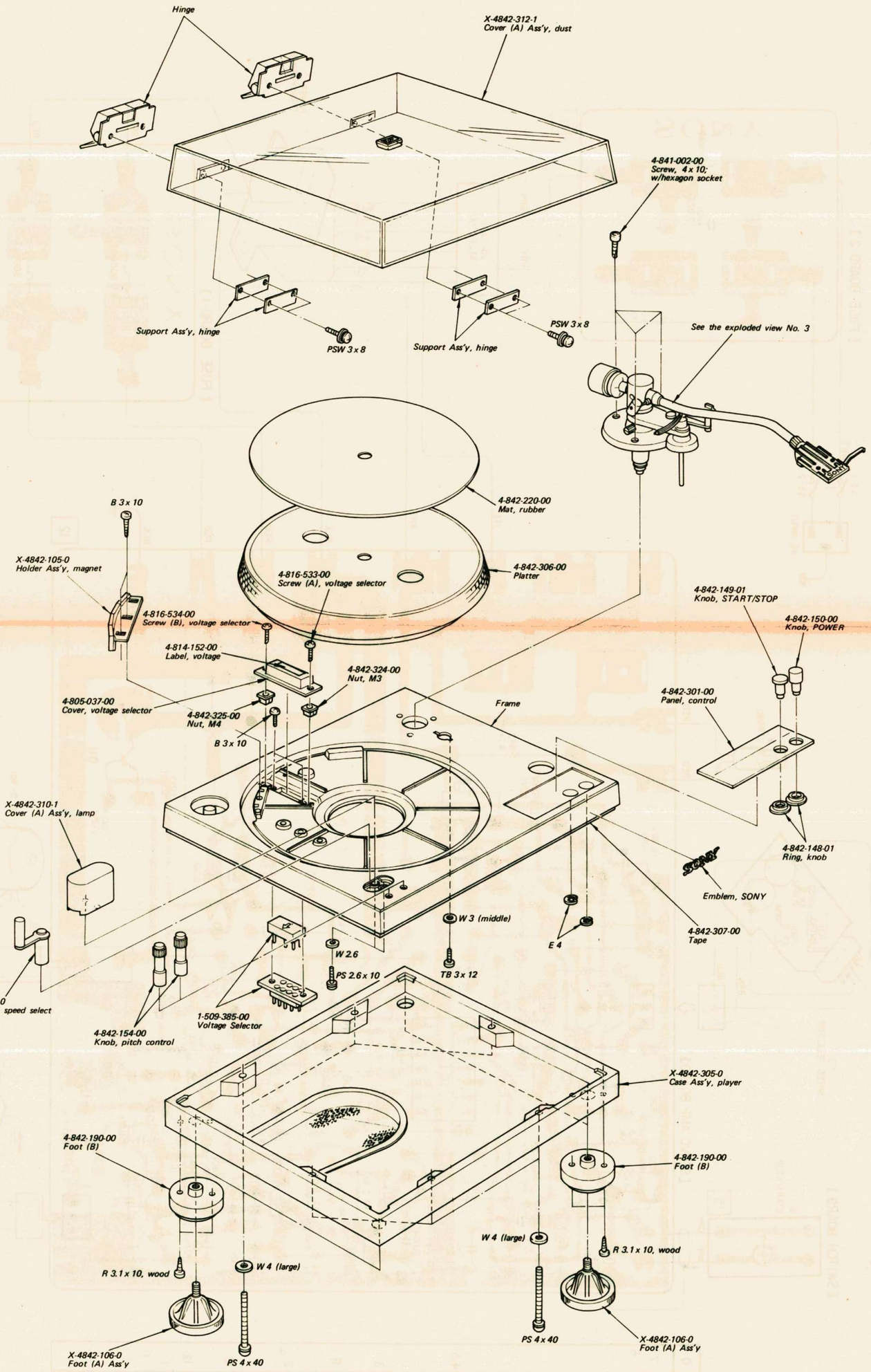
D8: EQA01-13R
D9, 10: SIB01-02



(1).

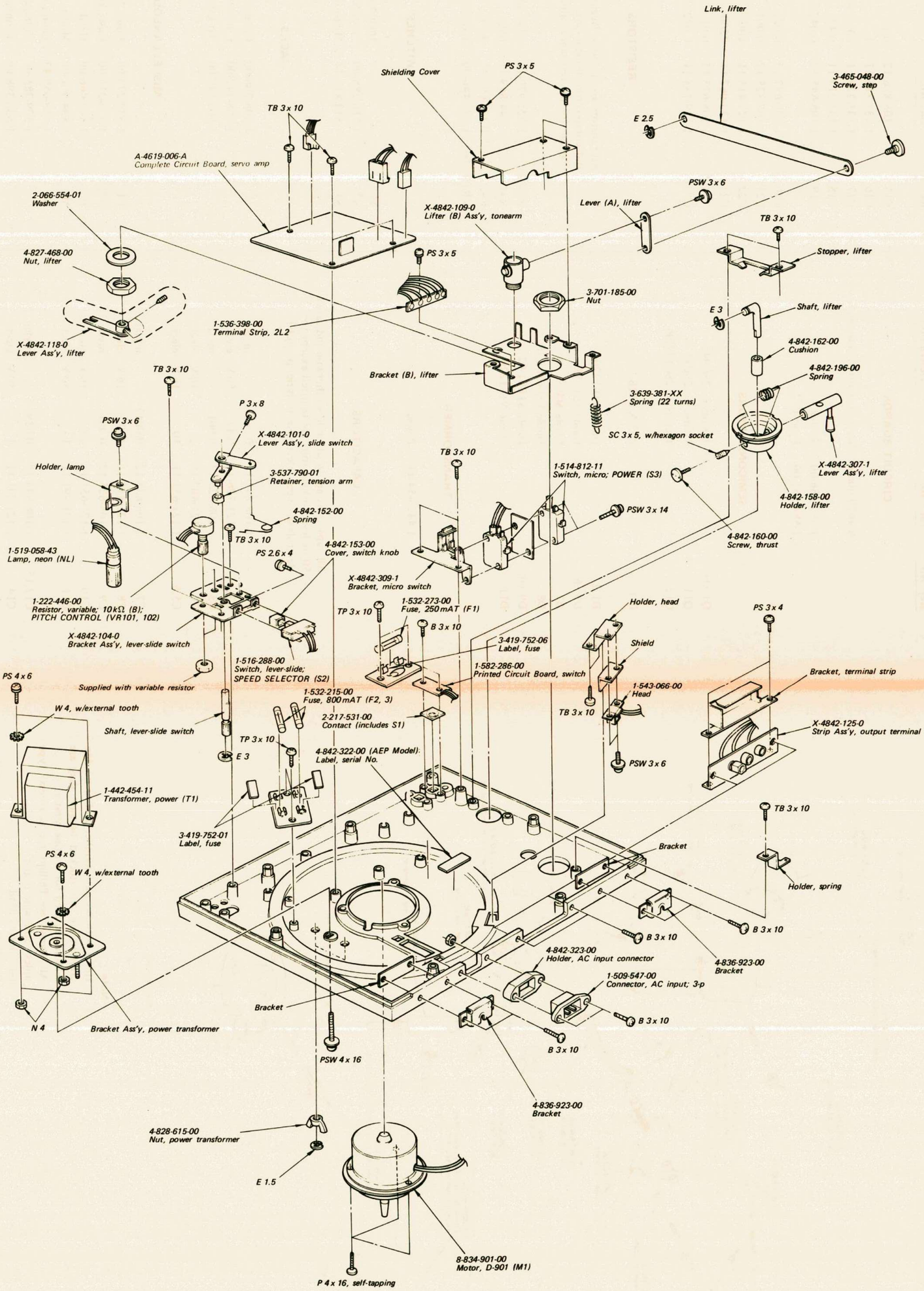
P	Pan Head Screw	SC	Set Screw
PS	Pan Head Screw with Spring Washer	E	Retaining Ring (E Washer)
K	Flat Countersunk Head Screw	W	Washer
B	Binding Head Screw	SW	Spring Washer
RK	Oval Countersunk Head Screw	LW	Lock Washer
T	Truss Head Screw	N	Nut
R	Round Head Screw		
F	Flat Fillister Head Screw		

– Example –
Type of Slot
⊕ P 3x10
Length in mm (L)
Diameter in mm (D)
Type of Head



Note:

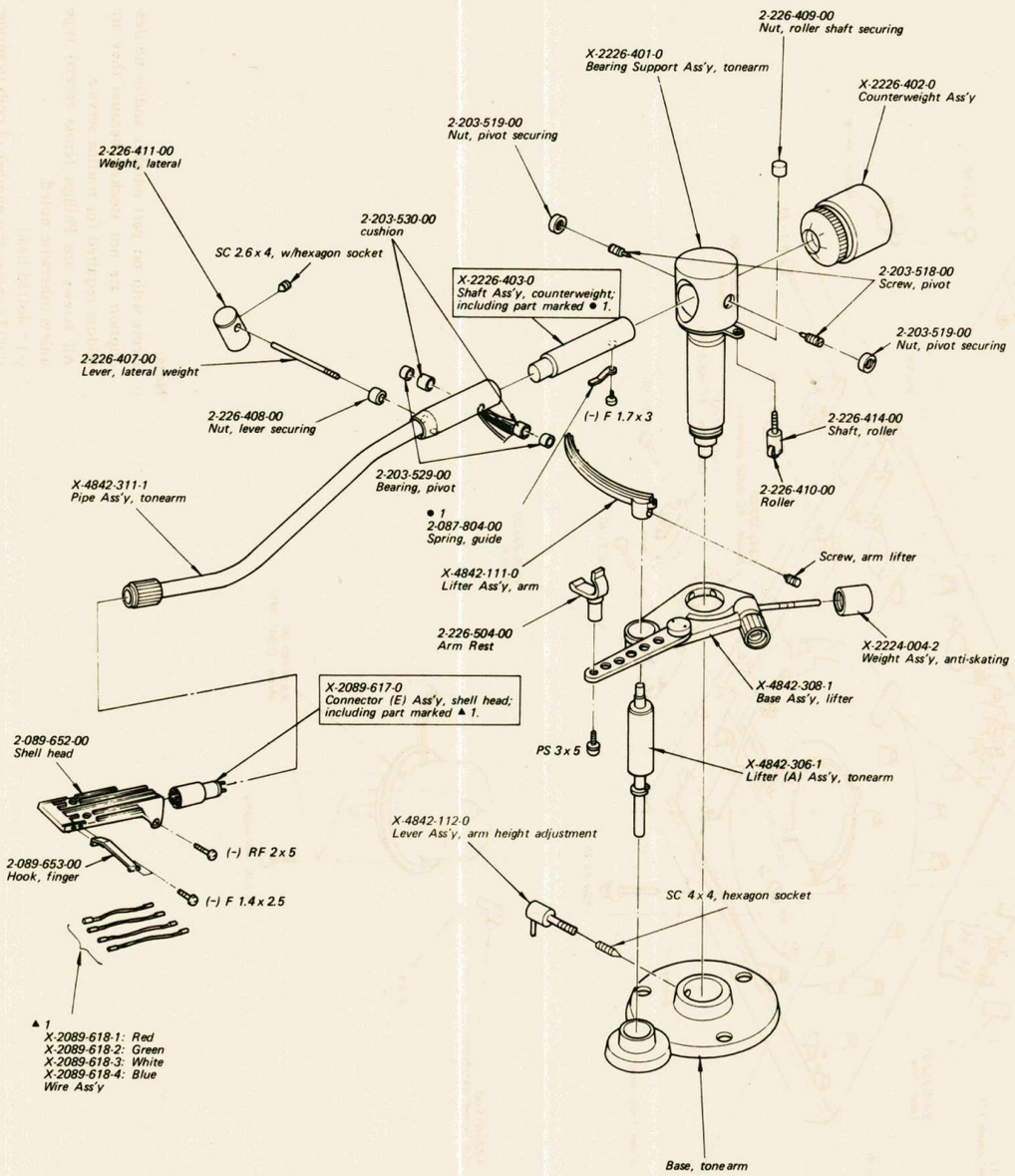
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (-) = slotted head
- (□□T) shows the number of coils in spring.



Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- (□□T) shows the number of coils in spring.

(3).



Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (-) = slotted head
- (□□T) shows the number of coils in spring.

SECTION 6
ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
	CIRCUIT BOARDS	
	A-4619-006-A	Servo Amplifier, complete
	1-582-286-00	Switch
	1-584-551-00	Fuse 1, 2
	SEMICONDUCTORS	
Q1~10		Transistor 2SC945
Q11		Transistor 2SC1173
Q12		Transistor 2SC1383R
IC1		IC CX-032B
D1,2		Diode VD-1220
D3~6		Diode 1S1555
D7		Diode MV-5
D8		Diode EQA01-13R
D9,10		Diode S1B01-02
D11		Diode VD-1220
	TRANSFORMER	
T1	1-442-454-11	Power

CAPACITORS

All capacitors are in μF unless otherwise indicated. 50 or less working volts are omitted except for electrolytic type. (elect = electrolytic, p = μμF)

C1	1-108-847-12	0.068		mylar
C2	1-121-726-11	0.47	50 V	elect
C3	1-108-825-12	0.001		mylar
C4	1-121-402-11	33	10 V	elect
C5,6	1-121-651-11	10	16 V	elect
C7	1-108-833-12	0.0047		mylar
C8	1-121-415-11	100	16 V	elect
C9	1-108-825-12	0.001		mylar
C10	1-121-651-11	10	16 V	elect
C11	1-121-391-11	1	50 V	elect
C12,13	1-108-844-12	0.039		mylar
C14	1-121-391-11	1	50 V	elect
C15	1-108-816-12	0.1		mylar
C16	1-131-215-11	1	35 V	tantalum
C17	1-131-229-61	33	6.3 V	tantalum
C18	1-131-213-11	0.47	35 V	tantalum
C19	1-108-845-12	0.047		mylar
C20	1-105-677-12	0.022		mylar
C21	1-108-825-12	0.001		mylar
C22	1-121-415-11	100	16 V	elect
C23	1-123-067-11	2200	25 V	elect
C24,25	1-105-673-12	0.01		mylar
C101	1-129-735-11	0.022		polypropylene

RESISTORS

All resistors are in ohms. Regular type ¼ W carbon and composition resistors are omitted. Check schematic diagram for the resistance values. k = 1,000, M = 1,000 k

R24,26	1-221-979-11	22 k, adjustable		
R41	1-244-869-11	680	½ W	carbon
R42	1-206-697-11	4.3 k	2 W	metal oxide
VR101,102	1-222-446-00	10 k (B), variable; PITCH CONTROL		

SWITCHES

S1		Included in Contact, START/STOP
S2	1-516-288-00	Lever-Slide, SPEED SELECTOR
S3	1-514-812-11	Micro, POWER

JACKS

1-508-706-00	Connector, 2 p
1-508-742-00	Connector, 3 p
1-509-547-00	3 p Inlet

MISCELLANEOUS

F1	1-532-273-00	Fuse, 250 mAT
F2,3	1-532-215-00	Fuse, 800 mAT
H1	1-543-066-00	Head
M1	8-834-901-00	Motor, D-901
NL	1-519-058-43	Lamp, neon; strobo
	1-509-385-00	Voltage Selector
	1-536-398-00	Terminal Strip, 2L2

Part No.	*Description*
	HARDWARE
	SCREWS
	All screws are Phillips (cross recess) type unless otherwise indicated. (–): slotted head
7-621-303-25	(–) F 1.7 x 3
7-621-712-17	SC 2.6 x 2, w/hexagon socket
7-621-712-37	SC 2.6 x 4, w/hexagon socket
7-621-731-34	SC 3 x 5, w/hexagon socket
7-621-843-29	R 3.1 x 10, wood
7-628-254-32	PS 2.6 x 10
7-681-623-13	(–) F 2 x 3
7-682-148-01	P 3 x 8
7-682-150-01	P 3 x 12
7-682-253-92	PS 2.6 x 4
7-682-548-04	B 3 x 8
7-682-645-01	PS 3 x 4
7-682-646-01	PS 3 x 5
7-682-660-01	PS 4 x 6
7-682-670-01	PS 4 x 40
7-682-846-04	BS 3 x 5
7-682-946-01	PSW 3 x 5
7-682-950-01	PSW 3 x 12
7-682-951-01	PSW 3 x 14
7-682-965-01	PSW 4 x 16
7-683-237-32	SC 3 x 3, w/hexagon socket
7-683-238-32	SC 3 x 4, w/hexagon socket
7-685-163-21	P 4 x 16, self-tapping
7-685-547-21	TB 3 x 10
	WAHERS
7-623-105-22	W 2 (large)
7-623-108-18	W 3
7-623-110-25	W 4 (large)
	RETAINING RINGS
7-624-102-01	E 1.5
7-624-106-01	E 3
	MISCELLANEOUS
7-622-210-02	Nut N 4
7-623-505-01	Lug
7-626-308-91	Pin
7-671-102-00	Steel Ball

ACCESSORIES

Part No.	*Description*
X-2089-619-2	Screw, cartridge
X-4842-302-0	Support Weight Ass'y
1-551-085-00	Cord, with connector (male)
2-089-697-00	Screwdriver, blade
3-701-806-00	Adaptor, 45 rpm
3-780-753-11	Manual, instruction
3-793-395-13	Card, alignment protractor
3-793-528-82	Card, guaranty (UK model)
4-842-326-00	Holder, turntable
4-842-327-00	Protector

Sony Corporation

9-958-092-01

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