

PS-LX49P

SERVICE MANUAL

*AEP Model
UK Model
East European Model*



SPECIFICATIONS

Turntable

Platter	30cm (12 in.)
Motor	DC servo motor
Drive system	Belt drive
Speed	33 1/3 rpm/45 rpm switchable
Wow and flutter	0.2% (WRMS)
Signal-to-noise ratio	60 dB (DIN-B)
Automatic system	Return, reject

Tonearm

Type	Dynamically balanced
Pivot-to-stylus length	203 mm (8 in.)
Overall arm length	235 mm (9 1/4 in.)

Cartridge

Type	Moving magnet type
Frequency response	20 Hz-20kHz
Stylus	CN-234

General

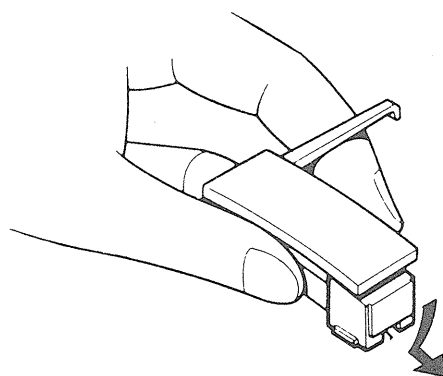
Dimensions	355x96.5x348 mm(w/h/d) (14x3 4/5x13 3/4 inches)
Weight	Approx. 1.95kg (4 lb 5 oz)
Power requirements	12V DC
Accessory supplied	45-rpm adaptor (1)
Optional accessories	Replacement stylus CN-234 Stat spray XP-C10 Cleaner XP-C1, XP-C2

Design and specifications subject to change without notice.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

REPLACING THE STYLUS



Replace the stylus after about 400 hours of use because using a worn stylus will damage records. An CN-234 replacement stylus is available at your Sony dealer.

Be sure to turn the amplifier off before proceeding with replacement.

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

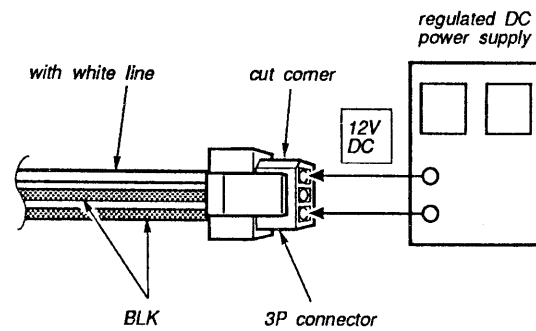
STEREO TURNTABLE SYSTEM
SONY®



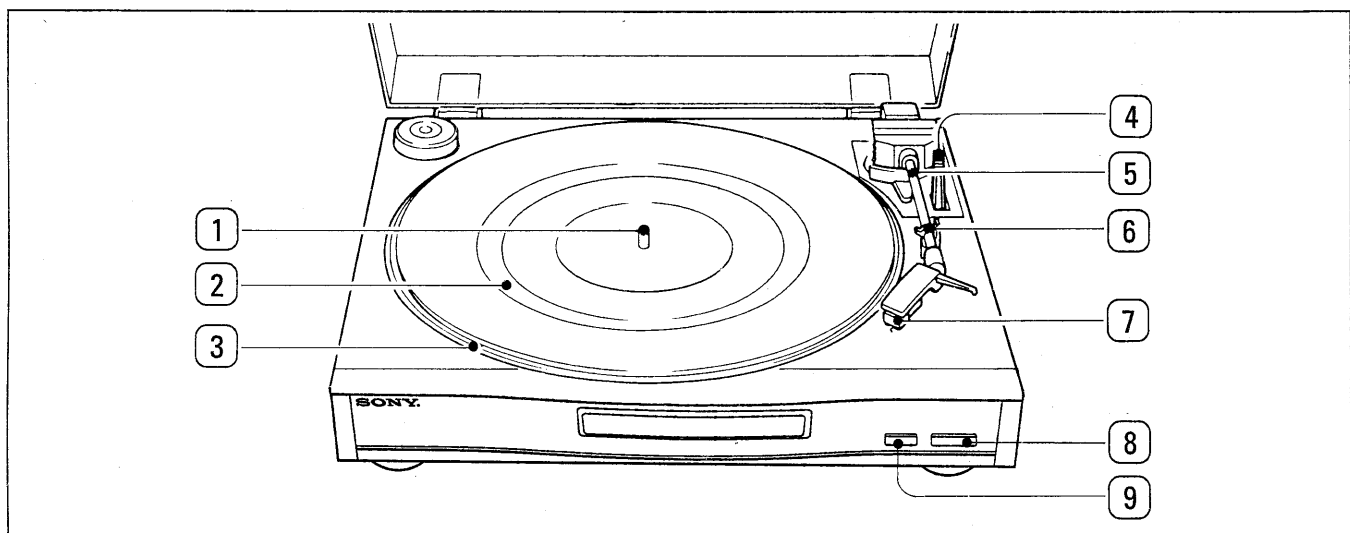
REPAIRING PRECAUTION

[To supply B+ voltage]

The power of this unit is fed from HST model. Because of this, connect the regulated power supply as illustrated right when this unit alone operates.

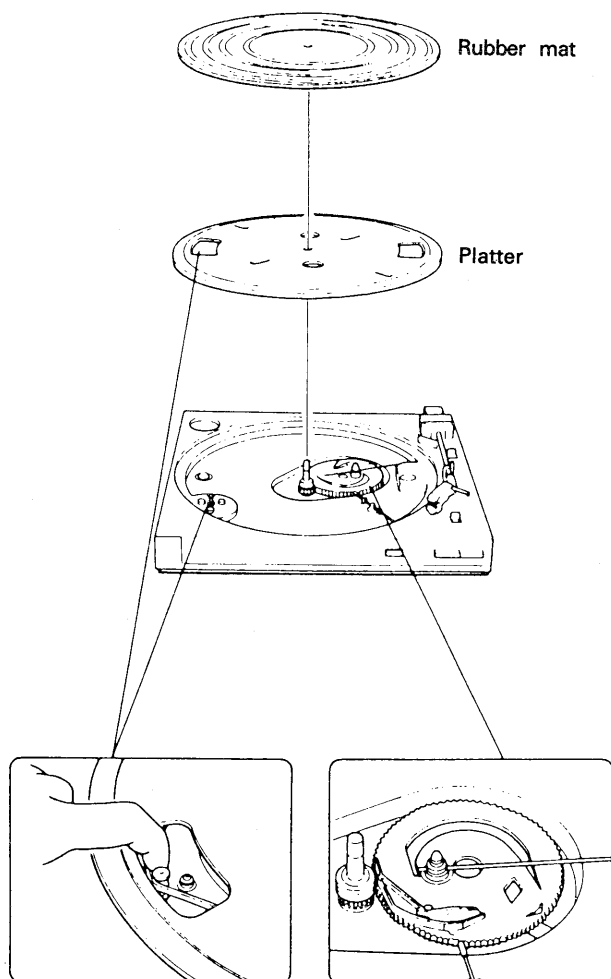


LOCATION AND FUNCTION OF CONTROLS



- 1 Center spindle
- 2 Rubber mat
- 3 Turntable platter
- 4 Cueing lever (▼ / ▼)
- 5 Tonearm
- 6 Arm rest
- 7 Cartridge
- 8 REJECT button
- 9 SPEED select button
Allows selection of 45rpm or 33rpm turntable speed.

TURNTABLE ASSEMBLY

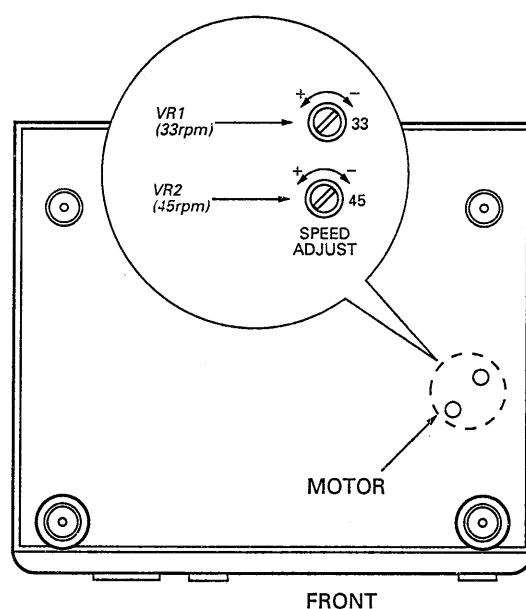


Hook the belt on the motor pulley.
If the belt is removed from the platter, replace it with the glossy side outward.

Speed Adjustment

Note: Be sure to perform 45rpm adjustment before 33rpm.

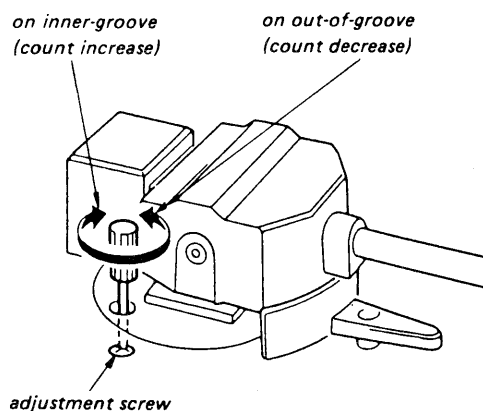
1. Place a stroboscope board on the turntable sheet.
Press the START button.
Adjust VR2 so that the stripped pattern of stroboscope board is stationary.
3. Set the SPEED switch to 33.
Adjust VR1 in the same way.



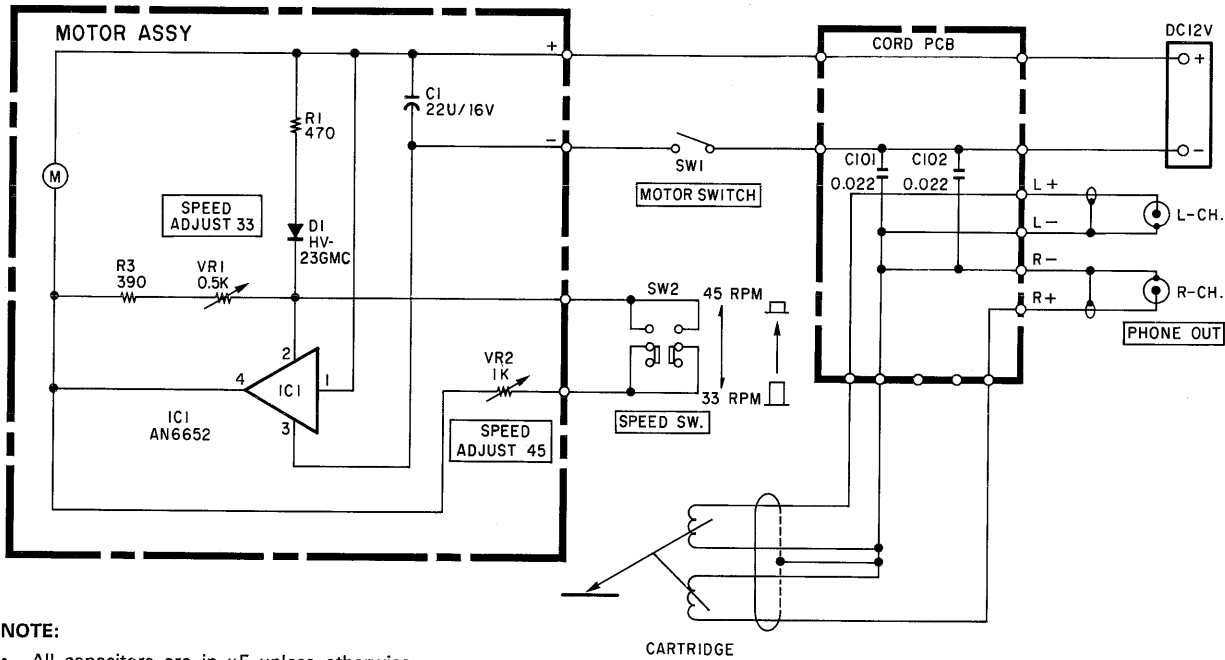
Stylus Drop-point Adjustment

1. Place a test record (YFSC-16) on the turntable sheet.
2. Set the SPEED switch to 33.
3. Press the START button.
4. By using a screwdriver, turn the adjustment screw so that the stylus tip drops on the record at the 7-17 counts position.
5. Move the arm to return detecting groove and confirm that the auto-return operation is started normally.

Note: The proper adjustment for a 30cm record is also correct for a 17cm record.
when turning adjustment screw, put the arm on the arm rest.



SCHEMATIC DIAGRAM



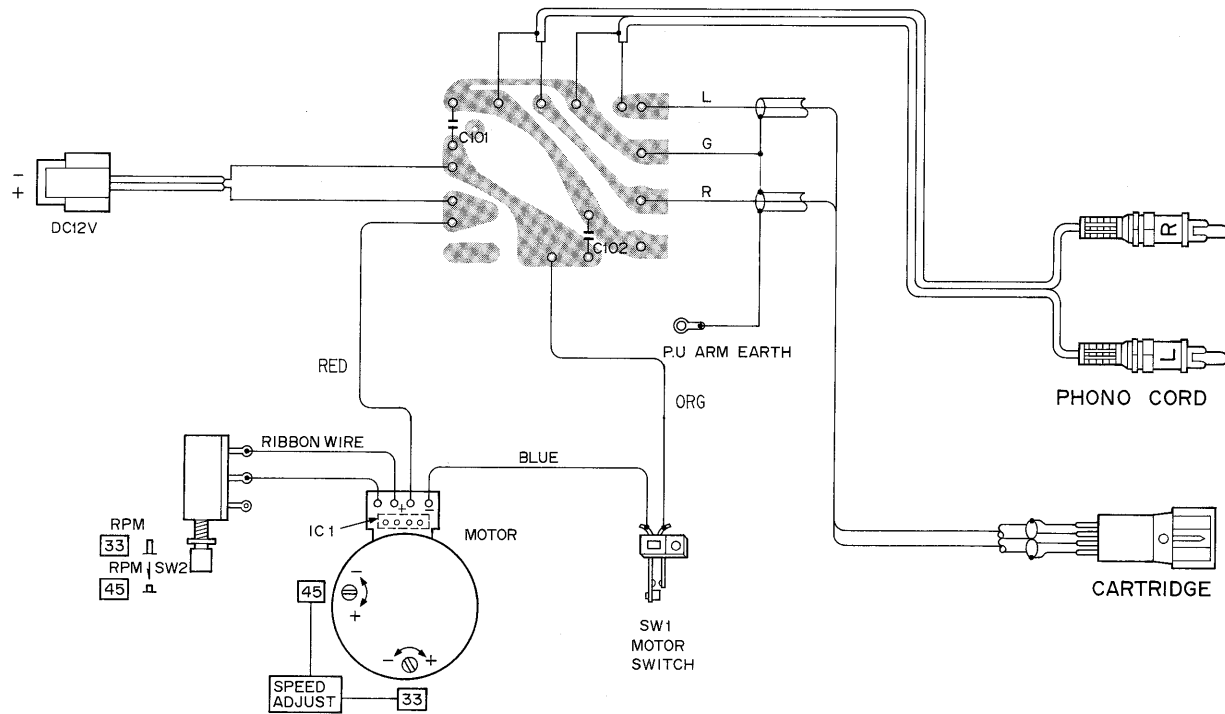
NOTE:

- All capacitors are in μF unless otherwise noted. pF : μF 50VV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.

Switches :

Ref.No.	Switch	Position
SW1	MOTOR	OFF
SW2	SPEED	33

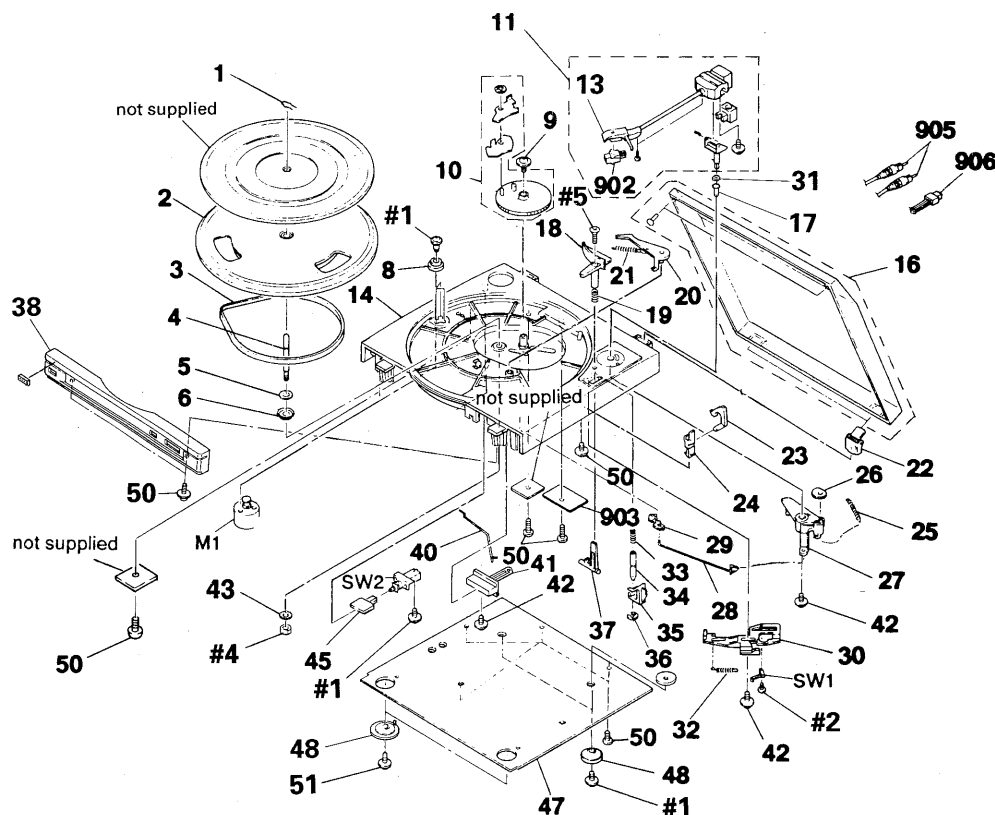
WIRING DIAGRAM



EXPLODED VIEW

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- 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.
- Screw(# mark) list is given in the last of this parts list.



Ref.No.	Part No.	Description	Remarks	Ref.No.	Part No.	Description	Remarks
1	4-895-490-01	CLIP, SPINDLE		26	4-895-818-01	CAM, ADJUSTMENT	
2	A-4604-243-A	TURNTABLE ASSY		27	* 4-896-372-01	LINK, RETURN	
3	4-943-396-01	BELT		28	4-896-371-01	ROD, TRIP	
4	* 4-896-361-01	SPINDLE		29	* 4-896-304-01	LEVER, TRIP	
5	4-895-024-01	POLY WASHER		30	* 4-896-373-01	ARM, SLIDE	
6	4-943-399-01	WASHER, FLAT		31	3-701-446-01	WASHER	
8	4-895-414-01	GROMMET (A)		32	4-896-374-01	SPRING (SLIDE ARM)	
9	4-896-294-01	SCREW(7-BID 3006 2N3A 10D)		33	4-943-405-01	SPRING, DUMPING	
10	4-895-495-01	GEAR, CAM, CLUTCH		34	4-896-252-01	SHAFT, ARM LIFT	
11	A-4660-132-A	ARM ASSY		35	4-896-253-01	FORK, LIFT	
13	1-543-927-11	HEAD P.U		36	4-896-254-01	RING (DIA.3), E	
14	* 4-943-945-01	CABINET, MAIN		37	4-896-212-01	LEVER, CUE	
16	A-4620-041-A	COVER ASSY, DUST		38	A-4660-133-A	PANEL, FRONT	
17	* 4-947-001-01	SHAFT, P.U		40	4-896-367-01	LOT (REJECT)	
18	4-896-258-01	PLATFORM, LIFT		41	4-950-458-01	BUTTON (REJECT)	
19	4-896-267-01	SPRING (A)		42	4-896-369-01	SCREW (7-CUP 3008 WF12 ZN3A)	
20	* 4-896-364-01	LEVER (REJECT)		43	4-943-397-01	WASHER, SPRING	
21	4-896-365-01	SPRING (C)		45	4-950-459-01	BUTTON (SPEED)	
22	4-896-321-01	HINGE ASSY		47	4-947-002-01	BOARD BOTTOM	
23	4-895-418-01	P.U. TUBE HOOK		48	4-895-435-01	FOOT	
24	4-943-398-01	REST, P.U		50	4-896-375-01	SCREW (7-CUP 3012 WF08 ZN3K)	
25	4-895-460-01	ADJUST SPRING		51	4-943-406-01	SCREW (7-CUP 3006 WF12 ZN3A)	

ELECTRICAL PARTS LIST

NOTE:

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.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE : Metal Oxide-film resistor
F : nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u : μ , for example :
uA...: μ A..., uPA...: μ PA...,
uPB...: μ PB..., uPC...: μ PC...,
uPD...: μ PD...
- CAPACITORS
MF : μ F, PF : μ μ F
- COILS
MMH : mH, uH : μ H

Ref.No.	Part No.	Description	Remarks	Ref.No.	Part No.	Description	Remarks
902	1-549-142-11	CARTRIDGE				PACKING MATERIAL	
903	1-643-201-11	PC BOARD, CORD					
905	1-555-116-11	CORD, CONNECTION			* 4-950-461-01	CUSHION (RIGHT)	
906	1-557-109-21	CORD, CONNECTION (3 CORE)			* 4-950-480-01	CUSHION (LEFT)	
M1	A-4604-244-A	MOTOR ASSY			*****		
SW1	1-570-666-11	SWITCH, LEAF				SCREW	
SW2	1-571-089-11	SWITCH, PUSH (1KEY) (SPEED)					
*****				#1	7-685-646-79	SCREW (7-CUP 3010 WF12 ZN3A)	
				#2	7-685-104-19	SCREW (7-PAN 2006 ZN3A)	
				#4	7-684-024-04	NUT 50 ZN3A	
				#5	7-621-561-49	SCREW (1-FLAT 2612 ZN3K)	

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SUPPLEMENT-1

File this supplement with the service manual.

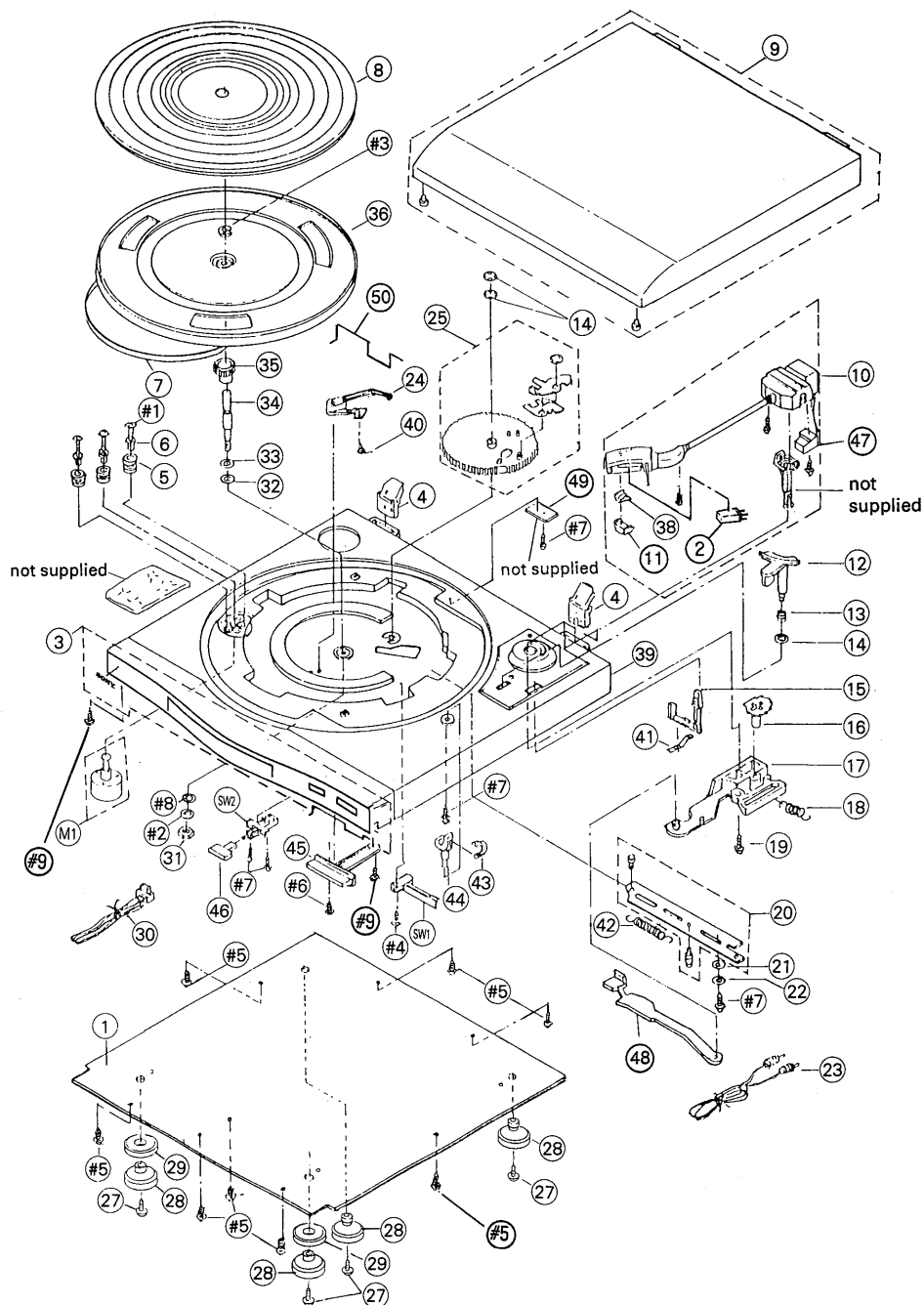
This supplement updates the following.

- For models with serial number YA500001 or larger, refer to this service manual.

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1	4-950-488-01	BUTTON BOARD		6	4-947-504-01	COLLAR	
2	1-251-028-11	CARTRIDGE		7	4-947-503-01	BELT	
3	A-4660-136-A	PANEL (G) ASSY, FRONT		8	4-947-539-01	RUBBER MAT	
4	4-947-476-01	HINGE		9	A-4604-946-A	COVER ASSY, DUST	
5	4-947-505-01	CUSHION MOTOR					

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
10	A-4604-940-A	ARM ASSY, TONE		31	4-947-510-01	NUT	
11	4-948-095-01	COVER CARTRIDGE		32	3-451-162-01	WASHER (56)	
12	4-947-466-01	TONE ARM ELEVATOR		33	3-701-445-21	WASHER	
13	4-947-467-01	SPRING (6)		34	4-947-498-01	STELL BALL	
14	4-947-514-01	4MM CS RING		35	4-947-497-01	GEAR	
15	4-947-468-01	LEVER, CUEING		36	4-947-494-01	TURNTABLE PLATTER	
16	4-947-470-01	ADJUST CAM		38	4-951-290-01	STYLUS (CN-234)	
* 17	4-947-471-01	LINK, RETURN		39	4-947-475-01	MAIN CABINET (G)	
18	4-947-472-01	SPRING (9-1)		40	4-947-496-01	SPRING (34)	
19	4-948-097-01	SCREW (68)		* 41	4-947-477-01	SPRING SHEET	
20	A-4604-947-A	RETURN ASSY, LEVER		42	4-947-485-01	SPRING (22)	
21	3-659-350-01	WASHER		43	4-947-490-01	ARM CLIP	
22	4-890-173-01	WASHER		44	4-947-491-01	ARM REST	
23	1-696-142-11	PHONO CORD		45	4-950-485-01	KNOB RETURN	
24	4-947-495-01	WIPER REJECT		46	4-950-486-01	KNOB SPEED	
25	A-4604-916-A	GEAR ASSY, SPUR		47	4-947-464-01	COUNTER WEIGHT	
27	4-950-497-01	FOOT SEAT		* 48	4-947-487-01	RETURN LINK	
28	4-950-490-01	PLASTIC STAND		49	1-644-410-11	P.C BOARD	
29	4-950-489-01	FOOT RING		50	4-948-101-01	SPRING (38)	
30	1-696-145-11	DC CORD					

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uPB... : μ PB..., uPC... : μ PC...,

uPD... : μ PD...

CAPACITORS

MF : μ F, PF : μ F

COILS

MMH : mH, uH : μ H

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
23	1-696-142-11	PHONO CORD		HARDWARE LIST			
30	1-696-145-11	DC CORD		#1	7-621-773-87	SCREW (64)	
* 49	1-644-410-11	P.C BOARD		#2	7-623-210-22	WASHER (57)	
M1	A-4604-945-A	MOTOR ASSY		#3	7-624-110-04	6MM E RING	
SW1	1-692-186-11	SWITCH (MOTOR SW)		#4	7-685-105-01	SCREW (59)	
SW2	1-692-187-11	PUSH SWITCH (SPEED SW)		#5	7-685-147-21	SCREW (70)	
*****				#6	7-685-646-79	SCREW (62)	
ACCESSORIES & PACKING MATERIALS				#7	7-685-647-79	SCREW (58)	
*****				#8	7-688-005-01	WASHER (69)	
3-754-840-41 MANUAL, INSTRUCTION (German, Dutch, Swedish, Italian)				#9	7-685-146-21	SCREW (60)	
*	4-947-532-01	SNOW BOX (L)					
*	4-947-533-01	SNOW BOX (R)					

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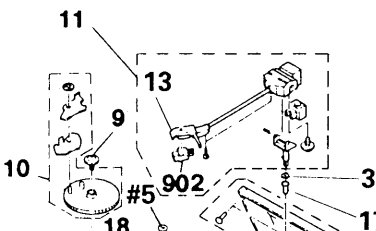
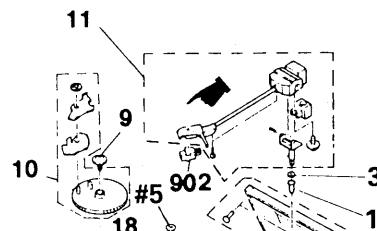
SONY®
SERVICE MANUAL
REVISED

AEP Model
UK Model
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CORRECTION-1R

Correct your service manual as shown below.

 : Indicates corrected portion

Page	Incorrect	Correct												
5	 <table><tr><th>Ref No.</th><th>Part No.</th><th>Description</th></tr><tr><td>13</td><td>1-543-927-11</td><td>HEAD P.U</td></tr></table>	Ref No.	Part No.	Description	13	1-543-927-11	HEAD P.U	 <table><tr><th>Ref No.</th><th>Part No.</th><th>Description</th></tr><tr><td>—</td><td>—</td><td>—</td></tr></table>	Ref No.	Part No.	Description	—	—	—
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6	<table><tr><td>902</td><td>1-549-142-11</td><td>CARTRIDGE</td></tr></table>	902	1-549-142-11	CARTRIDGE	<table><tr><td>902</td><td> 1-251-028-11</td><td>CARTRIDGE</td></tr></table>	902	 1-251-028-11	CARTRIDGE						
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