

#### Deze download wordt u gratis aangeboden door Pick-upnaalden.nl

Web: www.pickupnaalden.com

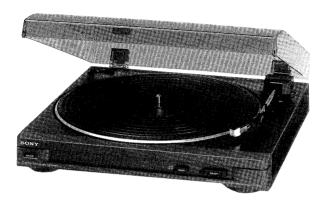
Email : info@pick-upnaalden.nl

Facebook : www.facebook.com/pickupnaalden

Twitter : twitter.com/Pickupnaalden

Google+ : https://plus.google.com/+FCaris\_pickupnaalden

## SERVICE MANUAL



US Model

AEP Model PS-LX46/LX46P

UK Model PS-LX46P/LX47P

E Model PS-LX47P

Australian Model

Photo: PS-LX46

#### **SPECIFICATIONS**

#### Turntable

Platter Motor Drive system Speed Wow and flutter Signal-to-noise ratio Automatic system

#### Tonearm

Type Pivot-to-stylus length Overall arm length

#### Cartridge

Type Frequency response Stylus

#### General

Dimensions

#### Weight

Power requirements Power consumption Accessory supplied Optional accessories 30cm (12 in.)
DC servo motor
Belt drive
33 ½ rpm/45 rpm switchable
0.2% (WRMS)
60 dB (DIN-B)
Return, reject

Dynamically blanced 203 mm (8 in.) 235 mm (9 ¼ in.)

Moving magnet type 20 Hz-20kHz ND-155G

355×94×341 mm(w/h/d) (14×3 <sup>3</sup>/<sub>4</sub>×13 <sup>1</sup>/<sub>2</sub> inches) Approx. 2.6 kg (5 lb 12 oz)

220V AC, 50/60 Hz 2 W

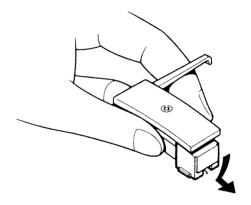
45-rpm adaptor (1) Replacement stylus ND-155G Stat spray XP-C10 Cleaner XP-C1, XP-C2

Design and specificatins subject to change without notice.

#### Note

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

#### **REPLACING THE STYLUS**



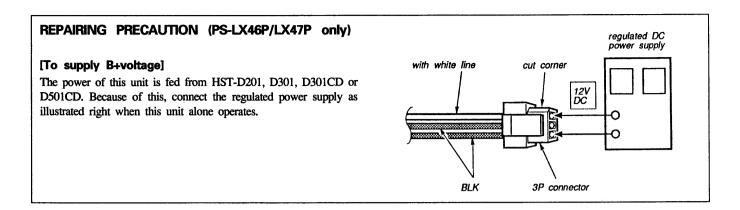
Replace the stylus after about 400 hours of use because using a worn stylus will damage records. An ND-155G replacement stylus is avilable at your Sony dealer.

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

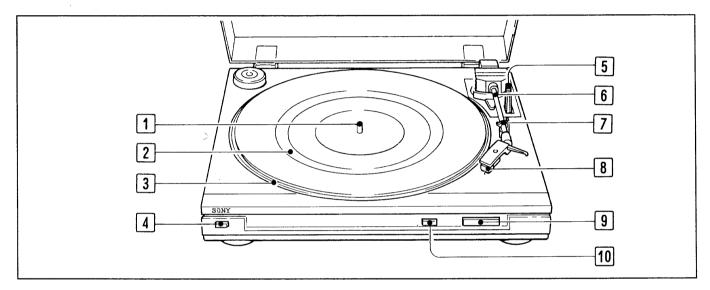
- 1 While holding the cartridge, detach the stylus assembly as illustrated.
- 2 Insert the new stylus into the cartridge.





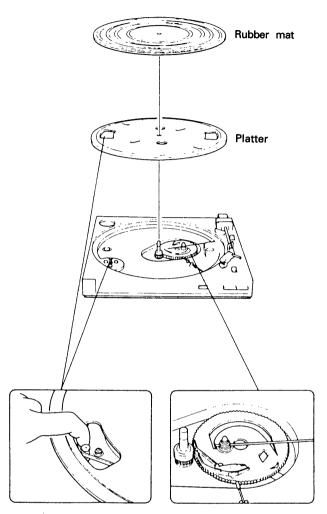


#### LOCATION AND FUNCTION OF CONTROLS



- 1 Center spindle
- 2 Rubber mat
- 3 Turntable platter
- 4 POWER switch (PS-LX46 only)
- 5 Cueing lever (▼/▼)
- 6 Tonearm
- 7 Arm rest
- 8 Cartridge
- 9 REJECT button
- SPEED select button
  Allows selection of 45rpm or 33rpm turntable speed.

#### TURNTABLE ASSEMBLY

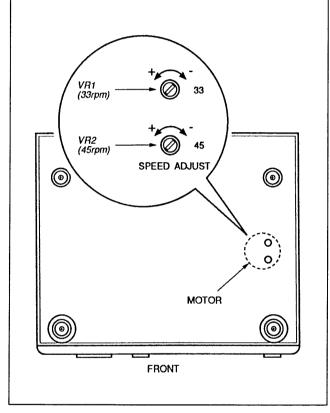


Hook the belt on the motor pulley. If the belt is removed from the platter, replace it with the glossy side outward.

#### Speed Adjsutment

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

- 1. Place a stroboscope board on the turntable sheet.
- Set the SPEED switch to 45.
   Press the START button.
   Ajust VR2 so that the stripped pattern of stroboscope board is stationary.
- 3. Set the SPEED switch to 33. Adjust VR1 in the same way.

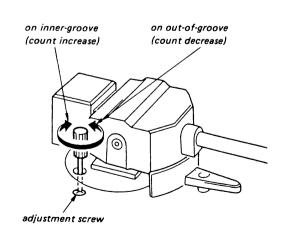


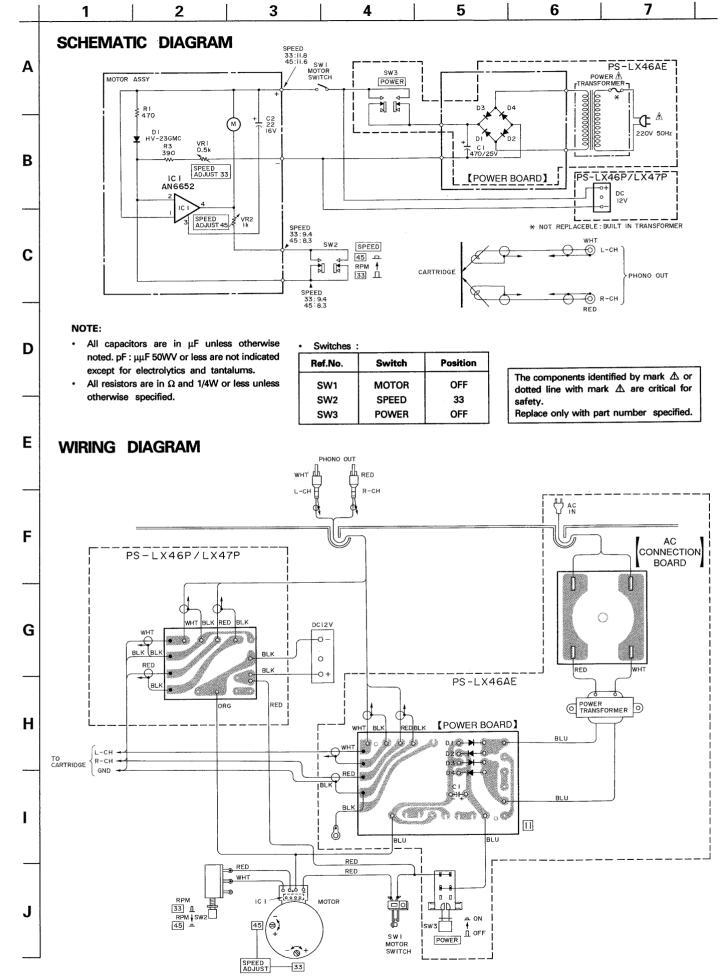
#### Stylus Drop-point Adjustment

- 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-raturn 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.





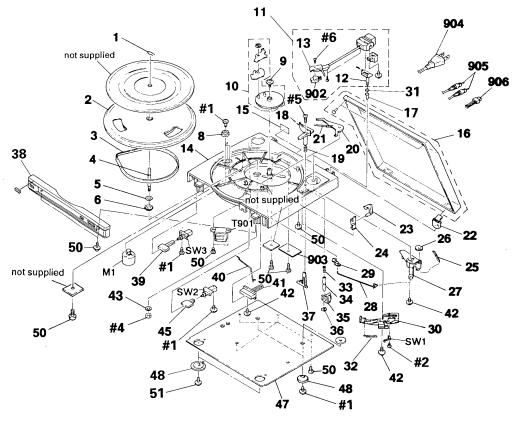
#### **EXPLODED VIEW**

#### NOTE:

- -XX, -X mean standard 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.

The components identified by  $\mbox{ mark } \Delta$  or dotted line with mark  $\Delta$  are critical for safety.

Replace only with part number specified.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-895-490-01	CLIP. SPINDLE		24	4-943-398-01	REST, P.U	
2		TURNTABLE ASSY		25	4-895-460-01	ADJUST SPRING	
3	4-943-396-01			26		CAM, ADJUSTMENT	
4	* 4-896-361-01	SPINDLE		27	* 4-896-372-01	LINK, RETURN	
5	4-895-024-01	POLY WASHER		28	4-896-371-01	ROD, TRIP	
6	4-943-399-01	WASHER, FLAT		29	* 4-896-304-01	LEVER, TRIP	
8	4-895-414-01	GROMMET (A)		30	* 4-896-373-01	ARM, SLIDE	
9	4-896-294-01	SCREW (7-BID 3006 2N3	A 10D)	31	3-701-446-01	WASHER	
10	4-895-495-01	GEAR, CAM, CLUTCH		32	4-896-374-01	SPRING (SLIDE ARM)	
				33	4-943-405-01	SPRING, DUMPING	
11	A-4604-242-A	ARM ASSY					
12	4-895-464-01	P. U. HINGE BRACKET		34		SHAFT, ARM LIFT	
13	4-896-227-01	SHELL, HEAD		35	4-896-253-01		
14	* 4-943-945-01	CABINET, MAIN		36	4-896-254-01	RING (DIA.3), E	
15	4-944-400-01	LABEL, MODEL NUMBER	(LX46P)	37	4-896-212-01	LEVER, CUE	
				38	4-943-948-01	PANEL, FRONT	
15		LABEL, MODEL NUMBER	•				
15	4-944-401-01	LABEL, MODEL NUMBER	(AE1/IT1) (LX46)	39		BUTTON (POWER) (LX46)	
16	A-4620-041-A	COVER ASSY, DUST		40		LOT (REJECT)	
17	* 4-896-265-01	SHAFT, P.U		41		BUTTON (REJECT)	
18	4-896-258-01	PLATFORM, LIFT		42		SCREW (7-CUP 3008 WF12 ZN3A)	
				43	4-943-397-01	WASHER, SPRING	
19	4-896-267-01	` '		45	4-943-943-01	BUTTON (SPEED)	
20		LEVER (REJECT)				PLATE. BOTTOM	
21	4-896-365-01	• •		48	4-895-435-01	· · · · · · · · · · · · · · · · · · ·	
22	4-896-321-01			50		SCREW (7-CUP 3012 WF08 ZN3K)	
23	4-895-418-01	P. U. TUBE HOOK		_ 51		SCREW (7-CUP 3006 WF12 ZN3A)	
				-5 - 1	, 3.3 400 01	30. 20. 3000 HTL 2.10/1/	

#### **ELECTRICAL PARTS LIST**

#### NOTE:

The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety.

Replace only with part number specified.

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 ohrns 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...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS

  MF: μF, PF:μμF
- COILS MMH : mH, uH : μH

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
902	1-549-135-11	CARTRIDGE				ACCESSORY & PACKING MATERIAL	
903 *	1-638-222-11	PC BOARD, CORD					
904 A ·	1-555-795-00	CORD, POWER (LX46)			3-753-018-11	MANUAL, INSTRUCTION	
905	1-555-116-11	CORD. CONNECTION			3-753-018-41	MANUAL, INSTRUCTION	
906	1-557-109-21	CORD. CONNECTION (3 CORE)		*	k 4-896-384-01	CUSHION (RIGHT)	
C1	1-123-336-00	· · · · · · · · · · · · · · · · · · ·	, i	*	k 4-896-385-01	CUSHION (LEFT)	
D1	8-719-200-02	DIODE 10E2 (LX46)					
D2	8-719-200-02	DIODE 10E2 (LX46)		******	******	:*************	******
D3	8-719-200-02	DIODE 10E2 (LX46)					
D4	8-719-200-02	DIODE 10E2 (LX46)				SCREW	
М1	A-4604-244-A	MOTOR ASSY					
SW1		SWITCH, LEAF	ĺ	#1	7-685-646-79	SCREW (7-CUP 3010 WF12 ZN3A)	
SW2		SWITCH, PUSH (1KEY) (SPEED)		#2	7-685-104-19	SCREW (7-PAN 2006 ZN3A)	
SW3		SWITCH, PUSH (IKEY) (POWER) (LX	(46)	#4	7-684-024-04	1 NUT 50 ZN3A	
		TRANSFORMER, POWER (LX46)	(10)	#5	7-621-561-49	SCREW (1-FLAT 2612 ZN3K)	
—		······································	į	#6	7-627-553-98	3 SCREW (7-PAN 2008 ZN3K)	
******	********	**********	******				

## SERVICE MANUAL

US Model

AEP Model

UK Model PS-LX46P/47P

> E Model PS-LX47P

Australian Model

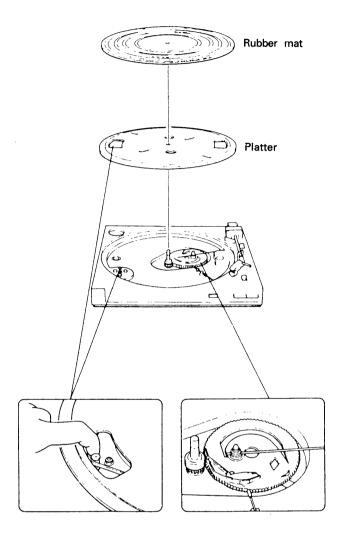
### **SUPPLEMENT-1**

File this supplement with the service manual.

**Subject: Modification of parts** 

- Regarding PS-LX46P (UK), parts with red cartridges in use are already modified.
- See this Service Manual (Supplement-1).

#### **TURNTABLE ASSEMBLY**

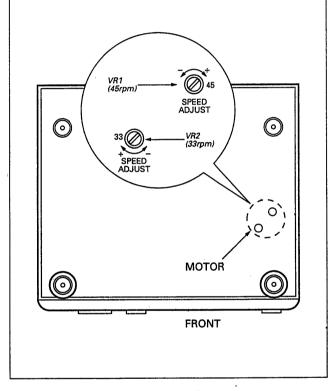


Hook the belt on the motor pulley. If the belt is removed from the platter, replace it with the glossy side outward.

#### **Speed Adjsutment**

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

- 1. Place a stroboscope board on the turntable sheet.
- Set the SPEED switch to 45.
   Press the START button.
   Ajust VR1 so that the stripped pattern of stroboscope board is stationary.
- 3. Set the SPEED switch to 33. Adjust VR2 in the same way.

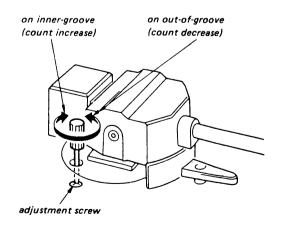


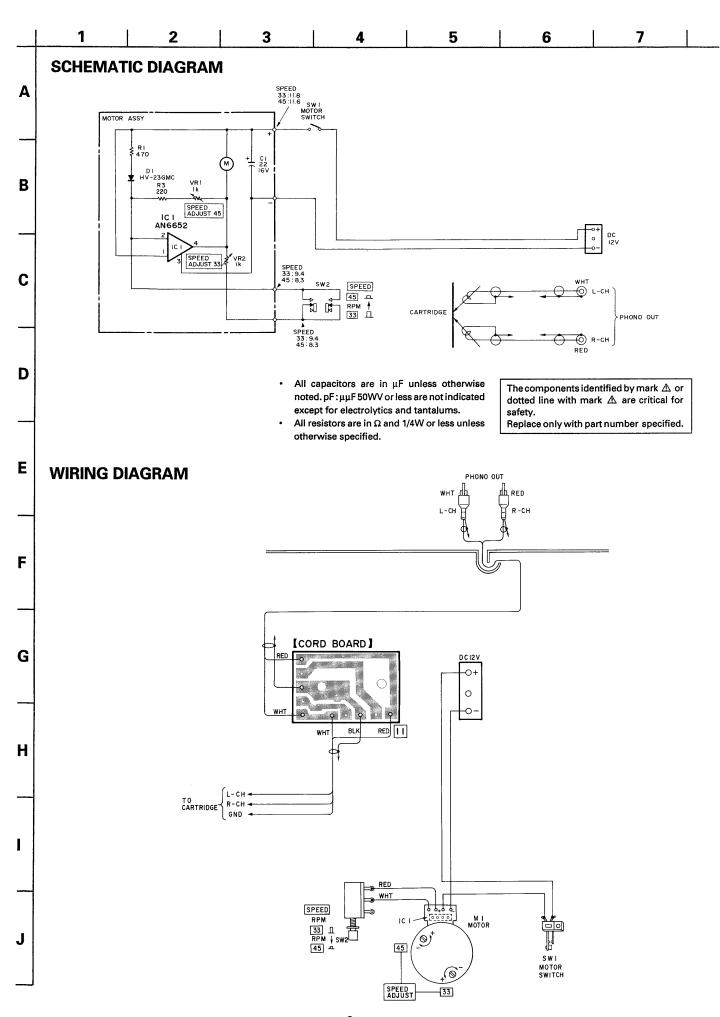
#### **Stylus Drop-point Adjustment**

- 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-raturn 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.





#### **EXPLODED VIEWS**

#### NOTE:

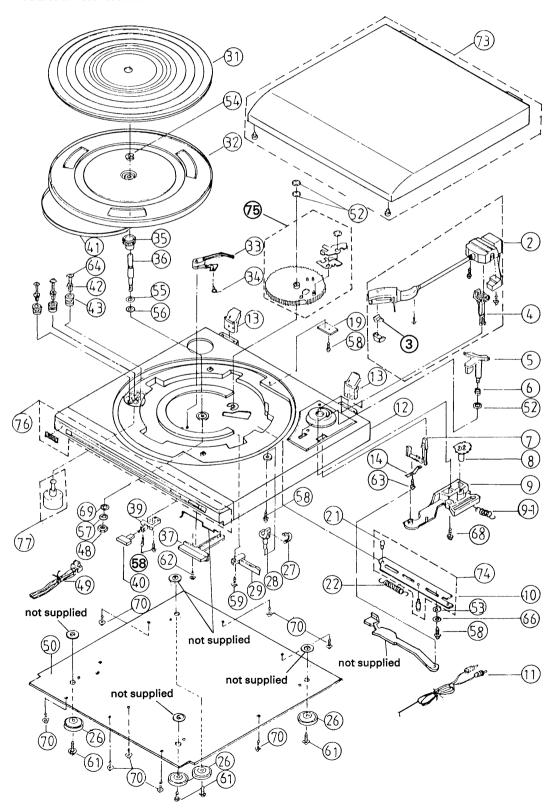
- –XX, –X mean standardized parts, so they may have some differences from the original
- Color Indication of Appearance Parts Example: KNOB,BALANCE(WHITE)...(RED)

Parts color Cabinet's color

- 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.

The components identified by mark △ or dotted line with mark △ are critical for safety.

Replace only with part number specified.



Ref. No.	Part No.	Description R	lemarks	Ref. No.	Part No.	Description	Remarks
2	A-4604-940-A	ARM ASSY, TONE		42	4-947-504-01	COLLAR	
3	4-948-094-01	STYLUS (MG-2500)				CUSHION MOTOR	
4	4-947-465-01	P. U. HINGE BRACKET		48	4-947-510-01	NUT	
5	4-947-466-01	TONE ARM ELEVATOR			1-557-109-21		
6	4-947-467-01	SPRING (6)		50 *	4-947-512-01	BUTTON BOARD	
7	4-947-468-01	LEVER, CUEING		52	4-947-514-01	4MM CS RING	
8	4-947-470-01			53	3-659-350-01	WASHER	
9	* 4-947-471-01	LINK, RETURN		54	7-624-110-04	6MM E RING	
11	1-555-116-11	PHONO CORD		<b>5</b> 5	3-701-445-21	WASHER	
12	4-947-475-01	MAIN CABINET (G)		56	3-451-162-01	WASHER (56)	
13	4-947-476-01	HINGE		57	7-623-210-22	WASHER (57)	
14	* 4-947-477-01	SPRING SHEET		58	7-685-647-79	SCREW (58)	
22	4-947-485-01	SPRING (22)		59	7-685-105-01	SCREW (59)	
26	4-947-489-01	RUBBER STAND		60	4-947-522-01	SCREW (60)	
27	4-947-490-01	ARM CLIP		61	4-947-523-01	SCREW (61)	
28	4-947-491-01	ARM REST		62	7-685-646-79	SCREW (62)	
29	1-570-666-11	SWITCH		64	7-621-773-87	SCREW (64)	
31	4-947-539-01	RUBBER MAT		66	4-890-173-01	WASHER	
32	4-947-494-01	TURNTABLE PLATTER		68	4-948-097-01	SCREW (68)	
33	4-947-495-01	WIPER REJECT		69	7-685-005-01	WASHER No. 5	
34	4-947-496-01	SPRING (34)		70	7-685-147-21	SCREW +P 3X10	
35	4-947-497-01	GEAR	1	73	A-4604-946-A	COVER ASSY, DUST	
36	4-947-498-01	STELL BALL		74	A-4604-947-A	RETURN ASSY, LEVER	
37	4-947-499-01	KNOB REJECT		75	A-4604-916-A	GEAR ASSY, SPUR	
39	1-571-089-11	PUSH SWITCH (SPEED)		76	A-4604-948-A	PANEL (G) ASSY, FRONT	
40	4-947-502-01	KNOB SPEED		77	A-4604-945-A	MOTOR ASSY	
41	4-947-503-01	BELT		9-1	4-947-472-01	SPRING (9-1)	

#### **ELECTRICAL PARTS LIST**

#### NOTE:

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety.

Replace only with part number specified.

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...: μA..., uPA...: μPA...,
    uPB...: μPB..., uPC...: μPC...,
    uPD...: μPD...
- · CAPACITORS uF:μF
- COILS uH:μH

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
<b>M</b> 1	1-555-116-11 1-557-109-21 A-4604-945-A	DC CORD				S & PACKING MATERIALS	
SW1	1-570-666-11	SWITCH, LEAF (MOTOR SWITCH)		*	4-947-532-01	SNOW BOX (L)	
SW2	1-571-089-11	SWITCH, PUSH (1KEY) (SPEED)			4-947-533-01 4-947-534-01	SNOW BOX (R) CARTON	
******	********	***********	******				

## SONY. SERVICE MANUAL

US Model PS-LX47P

AEP Model

UK Model

E Model PS-LX47P

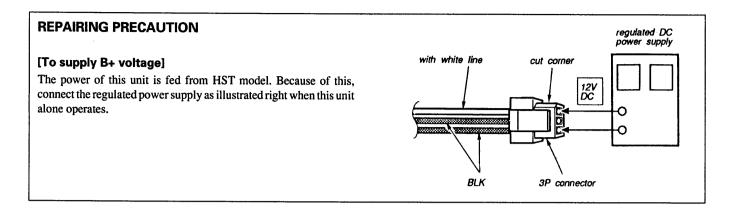
Australian Model

### **SUPPLEMENT-2**

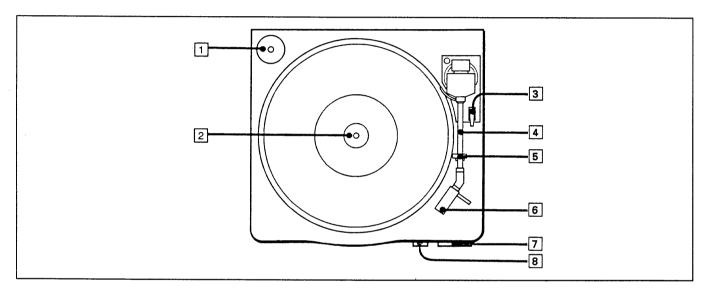
File this suppplement with the service manual.

This supplement updates the following.

 For PS-LX47P models with serial number JJ600001 or larger, refer to this service manual.

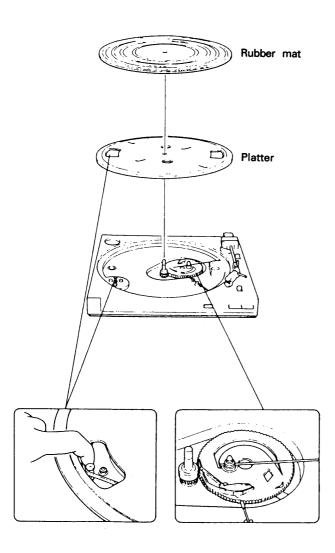


#### **LOCATION OF CONTROLS**



- 1 45-rpm adaptor
- 2 Center spindle
- 3 Cueing lever
- 4 Tonearm
- 5 Arm rest
- 6 Cartridge
- 7 EJECT button
- 8 Speed selector

#### **TURNTABLE ASSEMBLY**

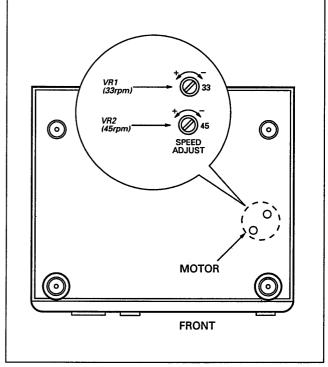


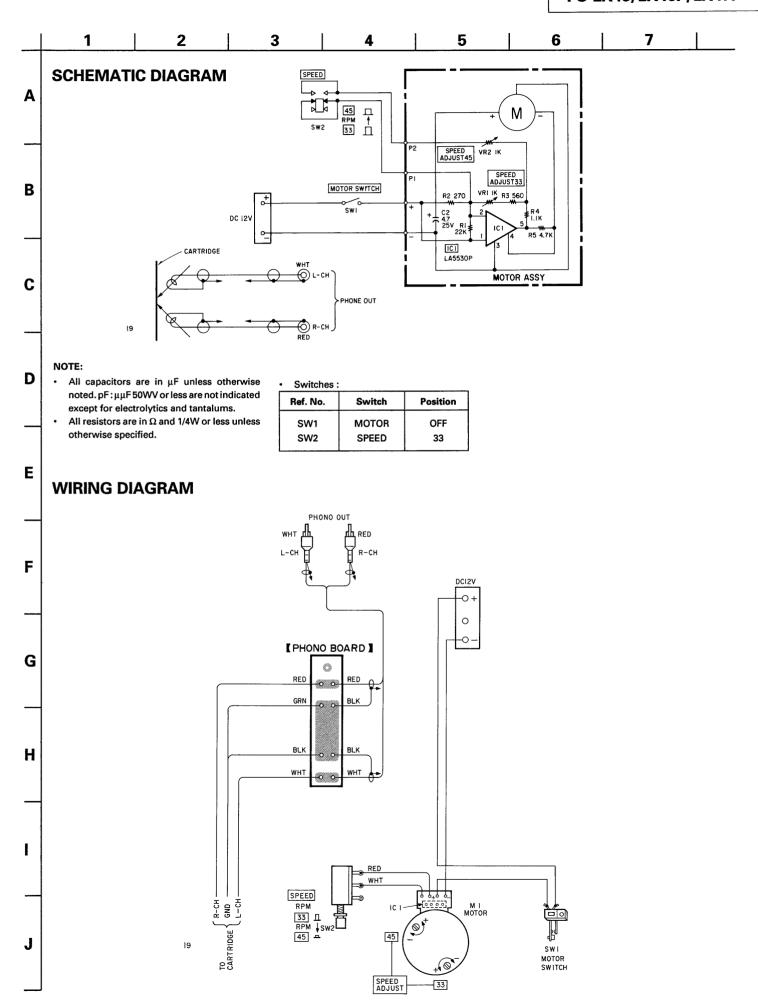
Hook the belt on the motor pulley. If the belt is removed from the platter, replace it with the glossy side outward.

#### **Speed Adjsutment**

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

- 1. Place a stroboscope board on the turntable sheet.
- Set the SPEED switch to 45.
   Press the START button.
   Adjust VR2 so that the striped pattern of stroboscope board is stationary.
- 3. Set the SPEED switch to 33. Adjust VR1 in the same way.



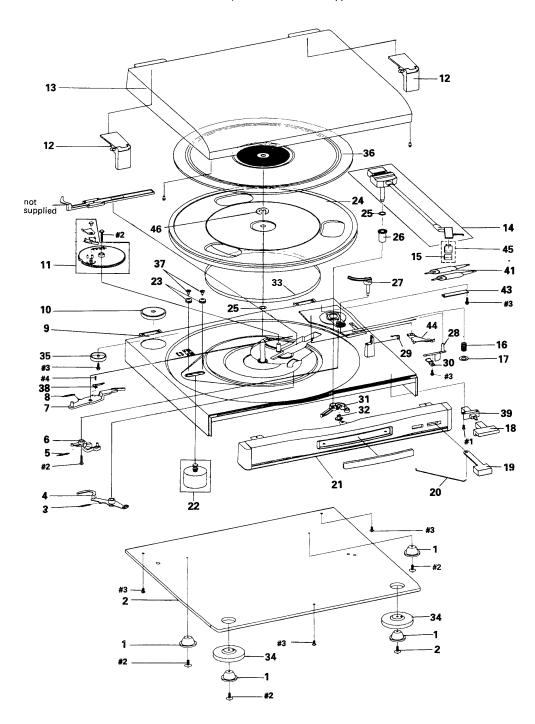


-4-

#### **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 * 2 3 4 5	4-956-082-01 4-950-453-01 4-950-452-01	FOOT RUBBER COVER-BOTTOM SPRING-REJECT LEVER-REJECT SPRING-ELEVATOR		6 7 8 * 9			

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
10	4-950-467-01	ADAPTOR-45RPM		28	4-950-440-01	LEVER-CUEING	
11	A-4660-140-A	GEAR ASSY, RING		29	4-950-439-01	LOCKER-ARM	
12	4-950-432-01	HINGE		30	4-950-441-01	BRACKET-CUEING	
13	A-4660-138-A	COVER ASSY, DUST		31	4-950-450-01	ARM-FEED	
14	A-4660-139-A	ARM ASSY, TONE		32	4-950-451-01	CAM-ADJUST	
15	4-951-290-01	STYLUS (CN-234)		33	4-950-434-01	BELT	
16	4-950-442-01	SPRING-ELEVATION		34	4-950-474-01	COVER-FOOT	
17	4-950-444-01	WASHER-C/S		35	4-956-083-01	HOLDER, CORD	
18	4-950-445-01	BUTTON-SPEED		36	4-950-505-01	RUBBER SHEET	
19	4-950-447-01	BUTTON-REJECT		37	4-950-469-01	SCREW-SETTING MOTOR	
20	4-956-081-01	LINK-REJECT		38	1-572-746-11	SWITCH, LEAF	
21	A-4660-137-A	PANEL (G) ASSY, FRONT		39	1-572-744-11	SWITCH, PUSH (2 KEY) (SPEED)	
22	A-4660-141-A			41	1-590-871-11	CORD, CONNECTION (3 CORE)	
23	4-950-470-01	CUSHION-MOTOR		43	1-639-237-11	PHONE BOARD	
24	4-950-433-01	PLATTER		44	4-953-060-01	LEVER, SWITCH	
25	4-950-435-01	SPACER		45	1-251-028-11	CARTRIDGE (MAIN)	
26	4-950-436-01	BUSHING-TONE ARM		46	4-953-059-01	E RING	
27	4-950-437-01	ARM-ELEVATION					

#### **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...: μA..., uPA...; μPA..., uPB...: μPB..., uPC...; μPC...,

uPD...: μPD... CAPACITORS

 $MF: \mu F, PF: \mu \mu F$ 

COILS

MMH : mH, uH : μH

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		MISCELLANEOUS				ES & PACKING MATERIALS	
		****			*****	******	
38	1-572-746-11	SWITCH, LEAF		10	4-950-467-03	1 ADAPTOR-45RPM	
39	1-572-744-11	SWITCH, PUSH (2 KEY) (SPEED)		36	4-950-505-03	1 RUBBER SHEET	
41	1-590-871-11	CORD, CONNECTION (3 CORE)		*	4-950-496-03	1 SNOW BOX (L)	
45	1-251-028-11	CARTRIDGE (MAIN)		*	4-950-503-01	1 SNOW BOX (R)	
				*	4-950-504-01	1 CARTON	
******	******	***********	*****				
				******	******	**********	*****
			į			HARDWARE LIST	
				#1	7-685-246-19	9 SCREW +KTP 3X8 TYPE2 N	NON-SLIT
				#2	7-685-903-21	1 SCREW +PTPWH 3X8 TYPE2	
			İ	#3	7-685-646-79	9 SCREW	
				#4	7-685-104-19	9 SCREW +P 2X6 TYPE2 NON	N-SLIT

**Sony Corporation** 

English 92H1924-1 Printed in Japan © 1992.9

### SONY SERVICE MANUAL

**US Model** PS-LX47P

AEP Model PS-LX46/LX46P

UK Model

PS-LX46P/LX47P

E Model

Australian Model

**CORRECTION-1** 

Correct your service manual as shown below.

: indicates corrected portion.

	, indicates corrected portion.			
Page	INCORRECT			CORRECT
5	No. Part No. Description 2 A-4604-243-A TURNTABLE ASSY	<u>No.</u> 2	Part No. A-4604-243-A	Description TURNTABLE ASSY (except US)
		2	A-4604-942-A	TURNTABLE ASSY (US)
	38 4-943-948-01 PANEL, FRONT	38	4-943-948-01	PANEL, FRONT (PS-LX46)
		38	4-943-942-01	PANEL, FRONT (PS-LX46P)
		38	4-943-951-01	PANEL, FRONT (PS-LX47P : E, UK, Australian)
		38	4-943-951-11	PANEL, FRONT (US)
	not supplied	52	4-896-334-01	SHEET, TURNTABLE (except US)
		52	4-896-518-11	TURNTABLE MAT (US)
	not supplied  2  3		<b>1</b> 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	