

PS-LX40/LX40P/LX43P/LX44P

SERVICE MANUAL

US Model
PS-LX43P

AEP Model
PS-LX40P/LX43P

UK Model
PS-LX40P/LX43P/LX44P

E Model
PS-LX40/LX40P/LX43P



Photo : PS-LX40

SPECIFICATIONS

Turntable	
Platter	30 cm
Motor	DC servo motor
Drive system	Belt drive
Speed	33 $\frac{1}{3}$ rpm/45 rpm switchable
Wow and flutter	0.2% (WRMS)
Signal-to-noise ratio	50 dB (DIN-B)
Automatic system	Return, reject

Tonearm	
Type	Statically balanced
Pivot-to stylus length	203 mm
Overall arm length	235 mm

Cartridge	
Type	Moving magnet type
Frequency response	20 Hz - 20 kHz
Stylus	ND-155G

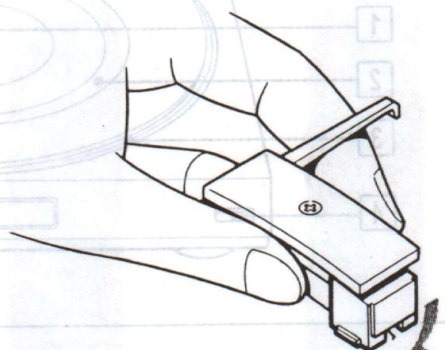
General	
Dimensions	Approx. 355 × 95 × 345 mm (14 × 3 $\frac{3}{4}$ × 13 $\frac{3}{8}$ inches)

Weight	PS-LX40 : Approx. 2.5 kg PS-LX40P/LX43P/LX44P : Approx. 2.1 kg (4 lb 11 oz)
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Power requirements	PS-LX40: 110 - 120 V, 220 - 240 V AC adjustable, 50/60 Hz PS-LX40P/LX43P/LX44P : 12V DC. Supplied from STEREO DECK RECEIVER (HST).
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Power consumption	4 W
Accessory supplied	45-rpm adaptor (1)
Optional accessories	Replacement stylus ND-155G

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 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.

Design and specifications subject to change without notice.



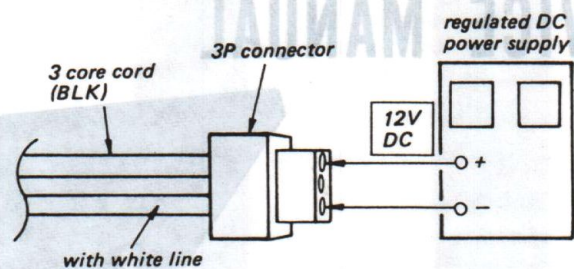
STEREO TURNTABLE SYSTEM

SONY®

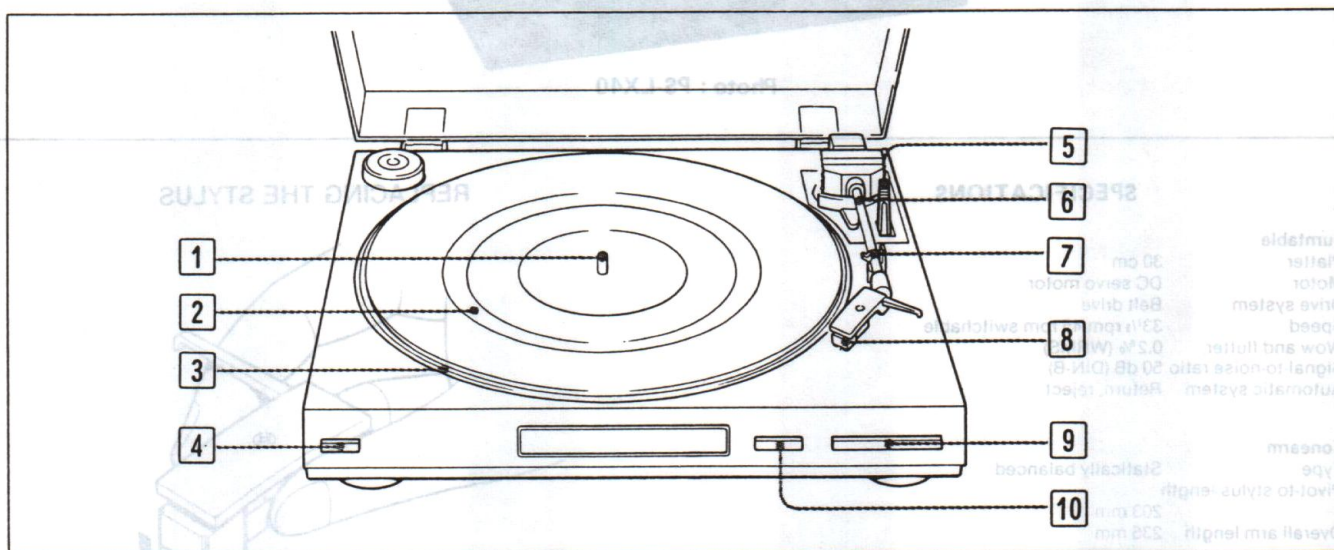
REPAIRING PRECAUTION (PS-LX40P/LX43P/LX44P only)

[To supply B+ voltage]

The power of this unit is fed from HST-D201, D301, D301CD or D501CD. Because of this, connect the regulated power supply as illustrated right when this unit alone operates.



LOCATION AND FUNCTION OF CONTROLS



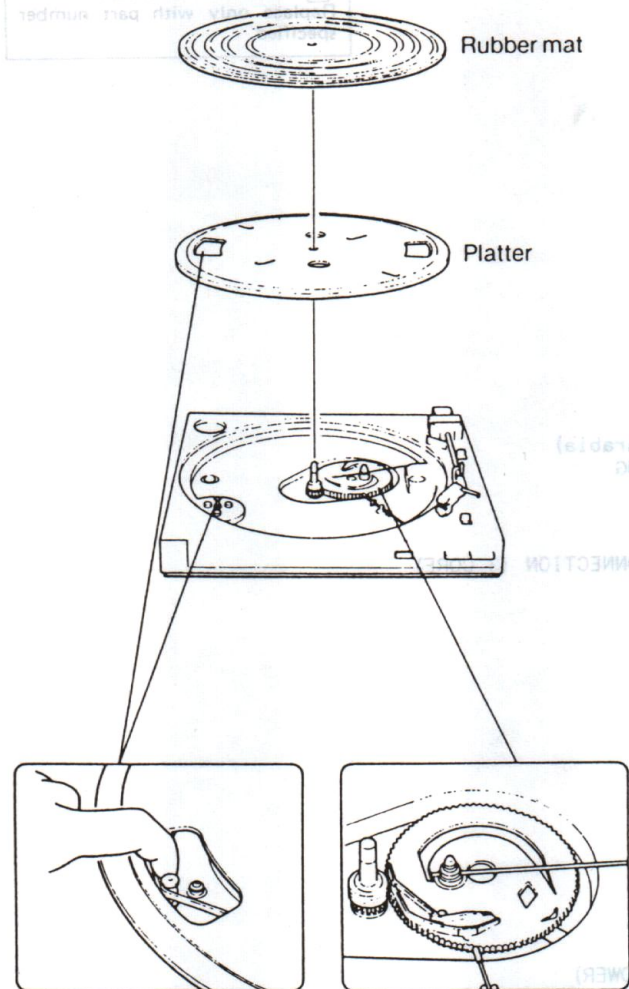
- 1 Center spindle
- 2 Rubber mat
- 3 Turntable platter
- 4 POWER switch (PS-LX40 only)
- 5 Cueing lever (▼/▲)
- 6 Tonearm
- 7 Arm rest
- 8 Cartridge
- 9 REJECT button
- 10 SPEED select button
Allows selection of 45 rpm or 33 rpm turntable speed.

Cartridge	WD-155G
Type	Moving magnet type
Frequency response	20 Hz - 20 kHz
Stylus	AN-D-155G replacement stylus is available
General	
Dimensions	Approx. 385 x 95 x 345 mm (15 1/2 x 3 7/8 x 13 3/8 inches)
Weight	PS-LX40: Approx. 2.5 kg (5.5 lb) PS-LX40P/LX43P/LX44P: Approx. 3.1 kg (6.8 lb)
Power requirements	PS-LX40: 110 - 120 V, 50/60 Hz PS-LX40P/LX43P/LX44P: 120 V, 50/60 Hz
Power consumption	4 W
Accessories supplied	45 rpm adaptor (F)
Optional accessories	Replacement stylus WD-155G

Design and specifications subject to change without notice.



TURNTABLE ASSEMBLY



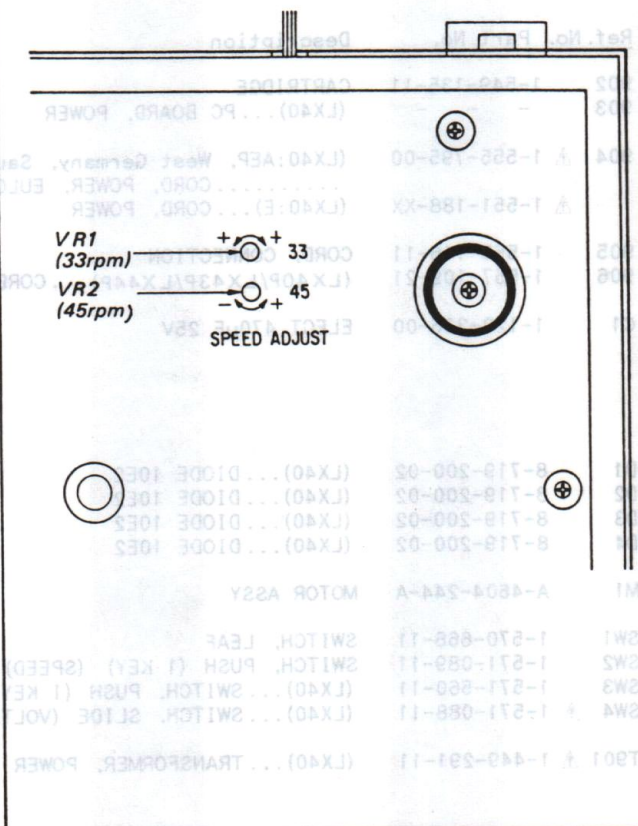
Hook the belt on the motor pulley.

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 33 rpm.

1. Place a stroboscope board on the turntable sheet.
2. Set the SPEED switch to 45.
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.

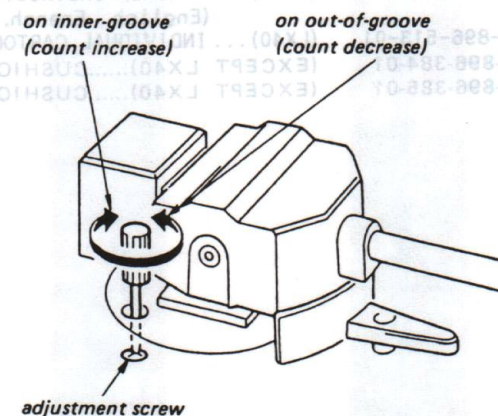


Stylus Drop-point Adjustment

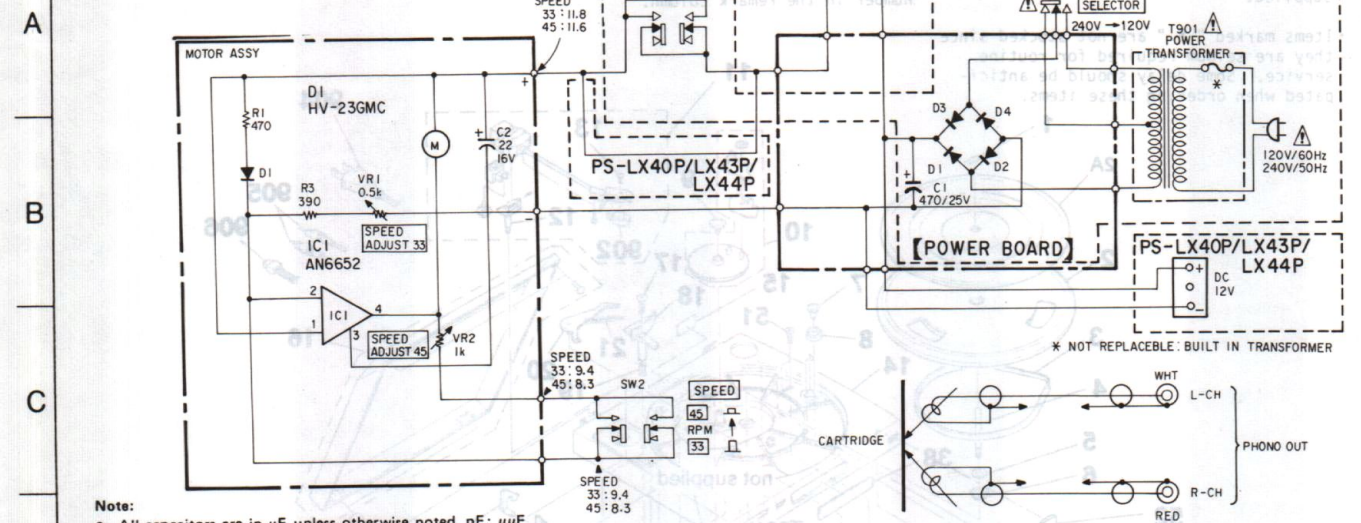
1. Place a test record (YFSC-16) on the turntable sheet.
2. Set the SPEED switch to 33.
3. Press the START button.
4. By using a screwdriver, turn the adjustment screw so that the stylus tip drops on the record at the 7-17 counts position.
5. Move the arm to return detecting groove and confirm that the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



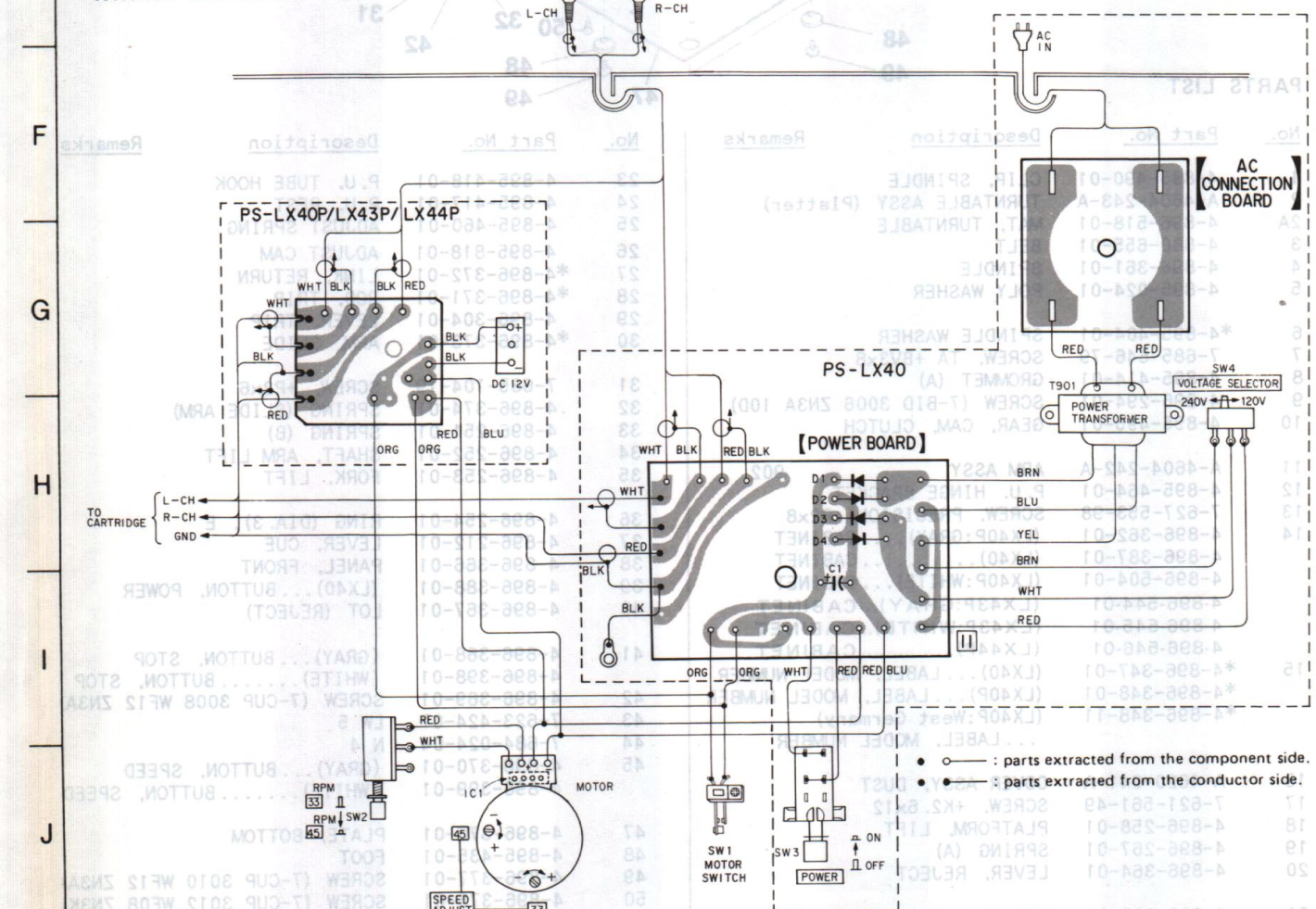
Note:

- All capacitors are in μF unless otherwise noted. pF is μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Switches:

Ref. No.	Switch	Position
SW1	MOTOR	OFF
SW2	SPEED	33
SW3	POWER	OFF
SW4	VOLTAGE SELECTOR	240V

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

WIRING DIAGRAM



- — : parts extracted from the component side.
- — : parts extracted from the conductor side.

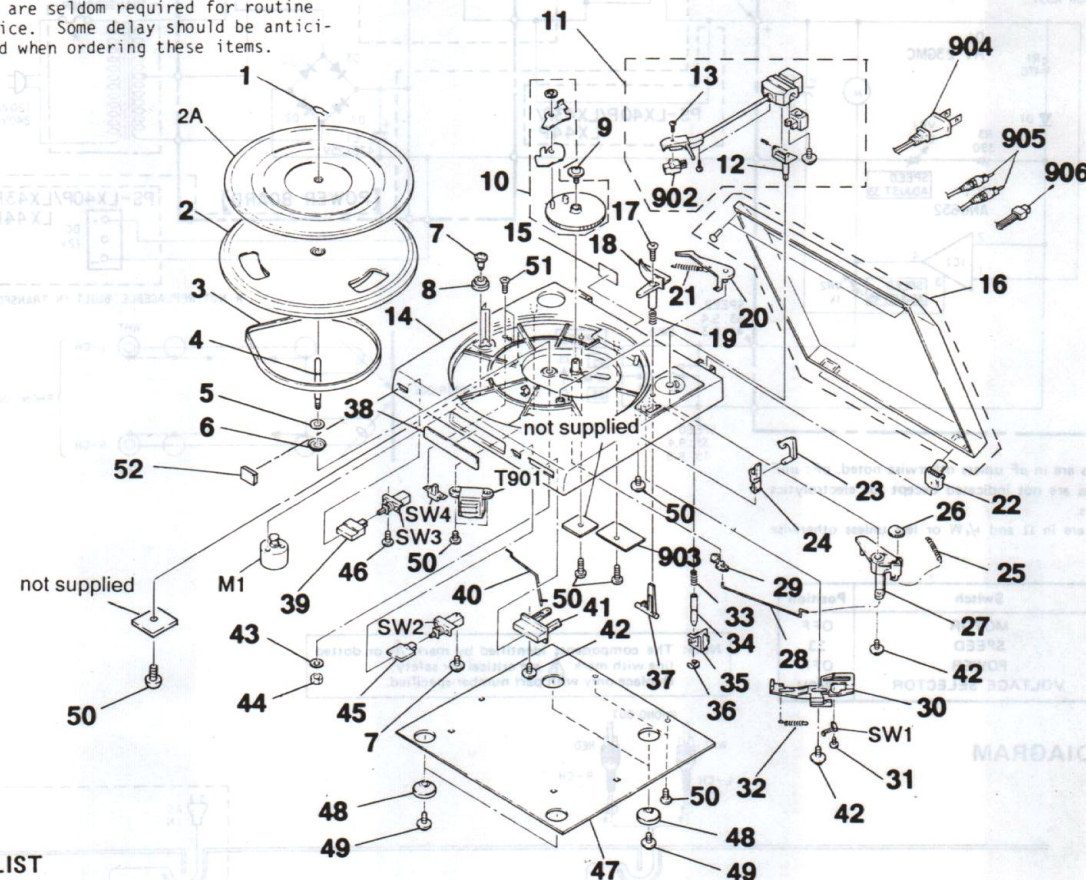
EXPLODED VIEW

NOTE:

The mechanical parts with no reference number in the exploded views are not supplied.

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

The construction parts of an assembled part are indicated with a collation number in the remark column.



PARTS LIST

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	4-895-490-01	CLIP, SPINDLE		23	4-895-418-01	P.U. TUBE HOOK	
2	A-4604-243-A	TURNTABLE ASSY (Platter)		24	4-895-417-01	P.U. REST	
2A	4-896-518-01	MAT, TURNTABLE		25	4-895-460-01	ADJUST SPRING	
3	4-880-655-01	BELT		26	4-895-818-01	ADJUST CAM	
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	*4-895-404-01	SPINDLE WASHER		29	4-896-304-01	LEVER, TRIP	
7	7-685-646-79	SCREW, TA +BV3x8		30	*4-896-373-01	ARM, SLIDE	
8	4-895-414-01	GROMMET (A)		31	7-685-104-19	SCREW, +P2x6	
9	4-896-294-01	SCREW (7-BID 3006 ZN3A 10D)		32	4-896-374-01	SPRING (SLIDE ARM)	
10	4-895-495-01	GEAR, CAM, CLUTCH		33	4-896-251-01	SPRING (B)	
11	A-4604-242-A	ARM ASSY	902	34	4-896-252-01	SHAFT, ARM LIFT	
12	4-895-464-01	P.U. HINGE BRACKET		35	4-896-253-01	FORK, LIFT	
13	7-627-553-98	SCREW, PRECISION +P2x8		36	4-896-254-01	RING (DIA.3), E	
14	4-896-362-01	(LX40P:GRAY)... CABINET		37	4-896-212-01	LEVER, CUE	
	4-896-387-01	(LX40)... CABINET		38	4-896-366-01	PANEL, FRONT	
	4-896-504-01	(LX40P:WHITE)... CABINET		39	4-896-388-01	(LX40)... BUTTON, POWER	
	4-896-544-01	(LX43P:GRAY)... CABINET		40	4-896-367-01	LOT (REJECT)	
	4-896-545-01	(LX43P:WHITE)... CABINET		41	4-896-368-01	(GRAY)... BUTTON, STOP	
	4-896-546-01	(LX44P)... CABINET		42	4-896-398-01	(WHITE)... BUTTON, STOP	
15	*4-896-347-01	(LX40)... LABEL, MODEL NUMBER		43	4-896-369-01	SCREW (7-CUP 3008 WF12 ZN3A)	
	*4-896-348-01	(LX40P)... LABEL, MODEL NUMBER		44	7-623-424-07	LW 5	
	*4-896-348-11	(LX40P:West Germany) ... LABEL, MODEL NUMBER		45	7-684-024-04	N 4	
16	A-4620-041-A	COVER ASSY, DUST		46	4-896-370-01	(GRAY)... BUTTON, SPEED	
17	7-621-561-49	SCREW, +K2. 6x12		47	4-896-399-01	(WHITE)... BUTTON, SPEED	
18	4-896-258-01	PLATFORM, LIFT		48	4-896-376-01	PLATE, BOTTOM	
19	4-896-267-01	SPRING (A)		49	4-895-435-01	FOOT	
20	4-896-364-01	LEVER, REJECT		50	4-896-377-01	SCREW (7-CUP 3010 WF12 ZN3A)	
21	4-896-365-01	SPRING (C)		51	4-896-375-01	SCREW (7-CUP 3012 WF08 ZN3K)	
22	4-895-410-01	HINGE ASSY		52	7-621-775-20	SCREW, +B2. 6x5	
					4-925-161-21	(LX44P)... EMBLEM (4-A), SONY	

ELECTRICAL PARTS

NOTE:

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.

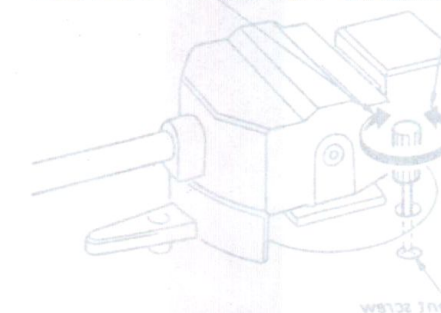
Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

Ref. No.	Part No.	Description
902	1-549-135-11	CARTRIDGE
903	- - -	(LX40)... PC BOARD, POWER
904	△ 1-555-795-00	(LX40:AEP, West Germany, Saudi Arabia) ... CORD, POWER, EULO PLUG
	△ 1-551-188-XX	(LX40:E)... CORD, POWER
905	1-555-116-11	CORD, CONNECTION
906	1-557-109-21	(LX40P/LX43P/LX44P)... CORD, CONNECTION (3 CORE)
C1	1-123-336-00	ELECT 470μF 25V
D1	8-719-200-02	(LX40)... DIODE 10E2
D2	8-719-200-02	(LX40)... DIODE 10E2
D3	8-719-200-02	(LX40)... DIODE 10E2
D4	8-719-200-02	(LX40)... DIODE 10E2
M1	A-4604-244-A	MOTOR ASSY
SW1	1-570-666-11	SWITCH, LEAF
SW2	1-571-089-11	SWITCH, PUSH (1 KEY) (SPEED)
SW3	1-571-560-11	(LX40)... SWITCH, PUSH (1 KEY) (POWER)
SW4	△ 1-571-088-11	(LX40)... SWITCH, SLIDE (VOLTAGE SELECTOR)
T901	△ 1-449-291-11	(LX40)... TRANSFORMER, POWER

ACCESSORY & PACKING MATERIAL

3-701-806-00	ADAPTOR, 45
3-750-345-11	(LX40)... MANUAL, INSTRUCTION (English, French, Spanish)
4-896-513-01	(LX40)... INDIVIDUAL CARTON
4-896-384-01	(EXCEPT LX40)... CUSHION(R)
4-896-385-01	(EXCEPT LX40)... CUSHION(L)



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

PS-LX40/LX40P

SERVICE MANUAL

AEP Model

UK Model

PS-LX40P

E Model

PS-LX40/LX40P

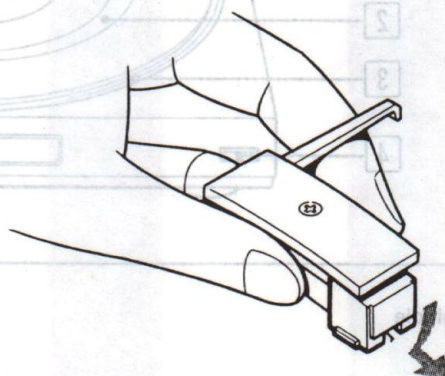


Photo : PS-LX40

SPECIFICATIONS

Turntable	
Platter	30 cm
Motor	DC servo motor
Drive system	Belt drive
Speed	33 $\frac{1}{3}$ rpm/45 rpm switchable
Wow and flutter	0.2% (WRMS)
Signal-to-noise ratio	50 dB (DIN-B)
Automatic system	Return, reject
Tonearm	
Type	Statically balanced
Pivot-to stylus length	203 mm
Overall arm length	235 mm
Cartridge	
Type	Moving magnet type
Frequency response	20 Hz – 20kHz
Stylus	ND-155G
General	
Dimensions	PS-LX40 : 355 × 95 × 345 mm (w/h/d)
	PS-LX40P: Approx. 355 × 95 × 345 mm (14 × 3 $\frac{3}{4}$ × 13 $\frac{3}{8}$ inches)
Weight	PS-LX40 : Approx. 2.5 kg
	PS-LX40P: Approx. 2.1 kg (4 lb 11 oz)
Power requirements	PS-LX40: 110 – 120 V, 220 – 240 V AC adjustable, 50/60 Hz
	PS-LX40P: 12V DC. Supplied from STEREO DECK RECEIVER (HST-).
Power consumption	4 W
Accessory supplied	45-rpm adaptor (1)
Optional accessories	Replacement stylus ND-155G

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 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.

Design and specifications subject to change without notice.

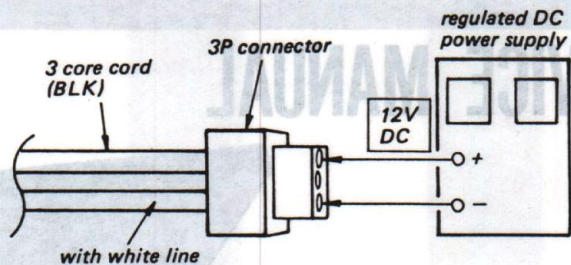
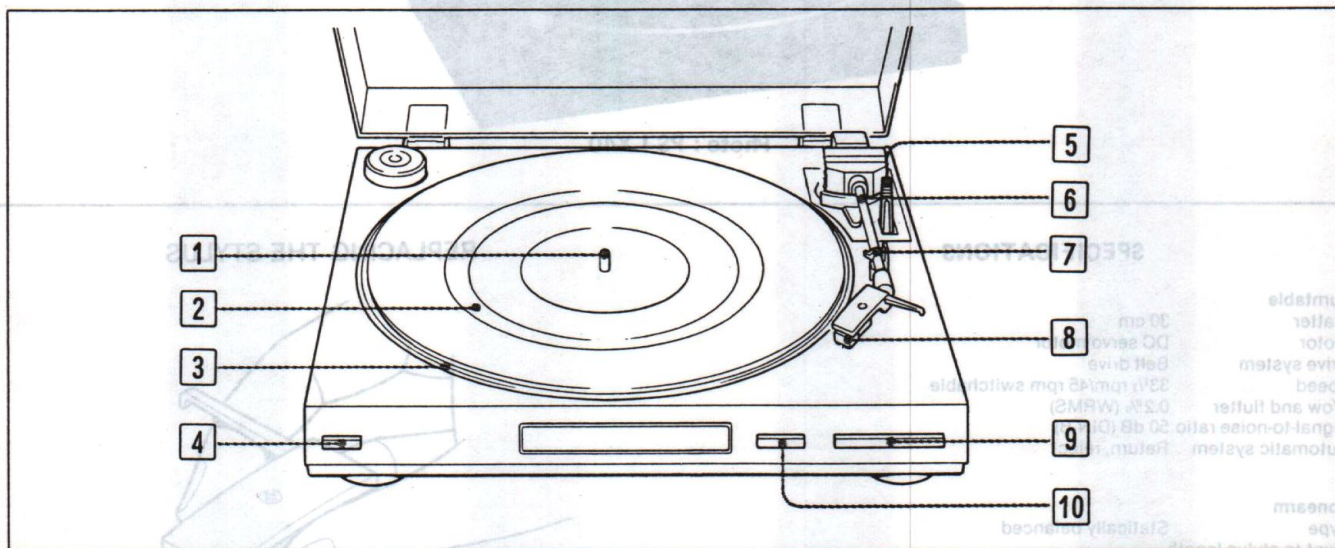


STEREO TURNTABLE SYSTEM

SONY®

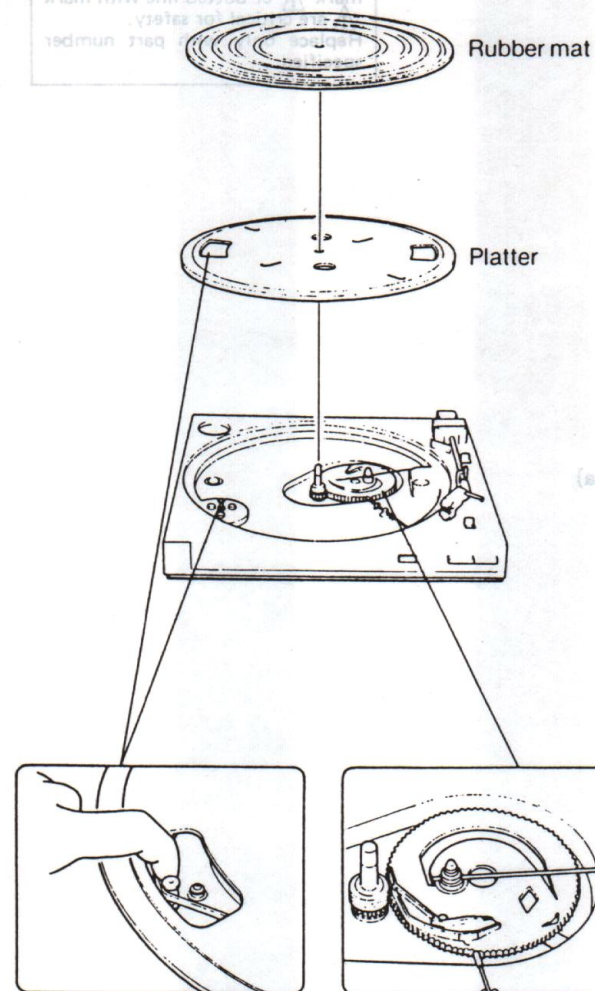
REPAIRING PRECAUTION (PS-LX40P only)**[To supply B+ voltage]**

The power of this unit is fed from HST-D201, D301, D301CD or D501CD. 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 POWER switch (PS-LX40 only)
- 5 Cueing lever (▼/▼)
- 6 Tonearm
- 7 Arm rest
- 8 Cartridge
- 9 REJECT button
- 10 SPEED select button
Allows selection of 45 rpm or 33 rpm turntable speed.

TURNTABLE ASSEMBLY



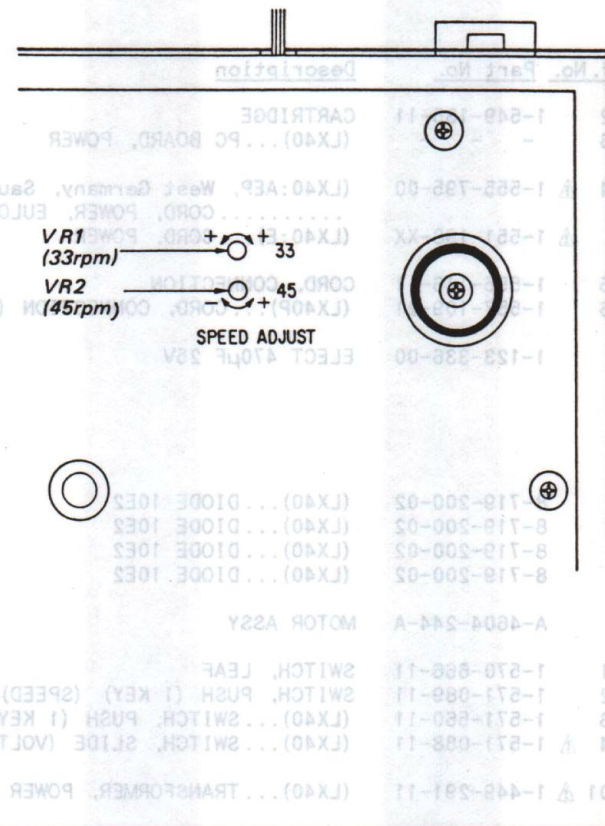
Hook the belt on the motor pulley.

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 33 rpm.

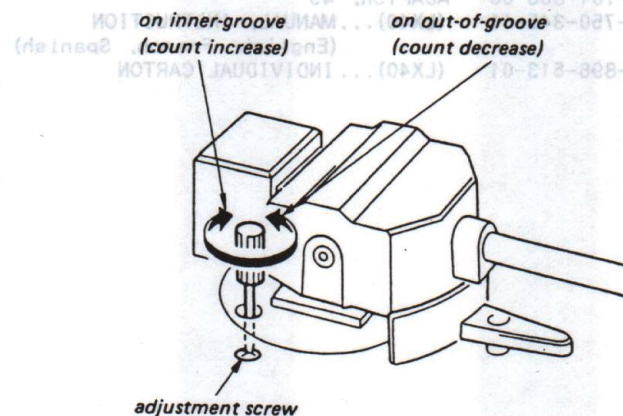
1. Place a stroboscope board on the turntable sheet.
2. Set the SPEED switch to 45.
Press the START button.
Adjust VR2 so that the stripped pattern of stroboscope board is stationary.
3. Set the SPEED switch to 33.
Adjust VR1 in the same way.



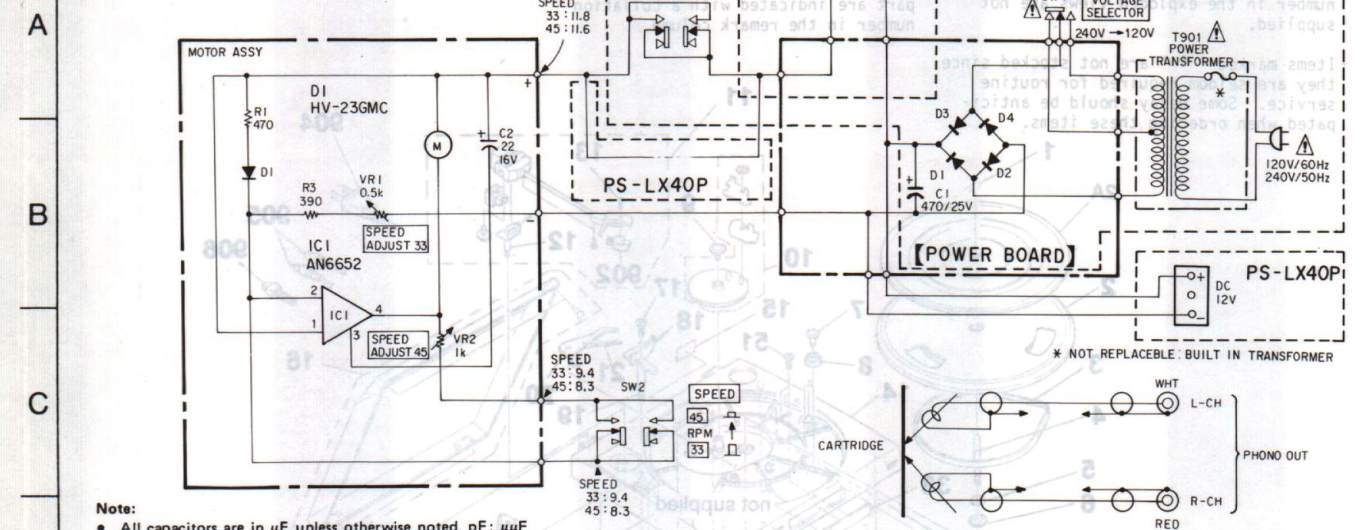
Stylus Drop-point Adjustment

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



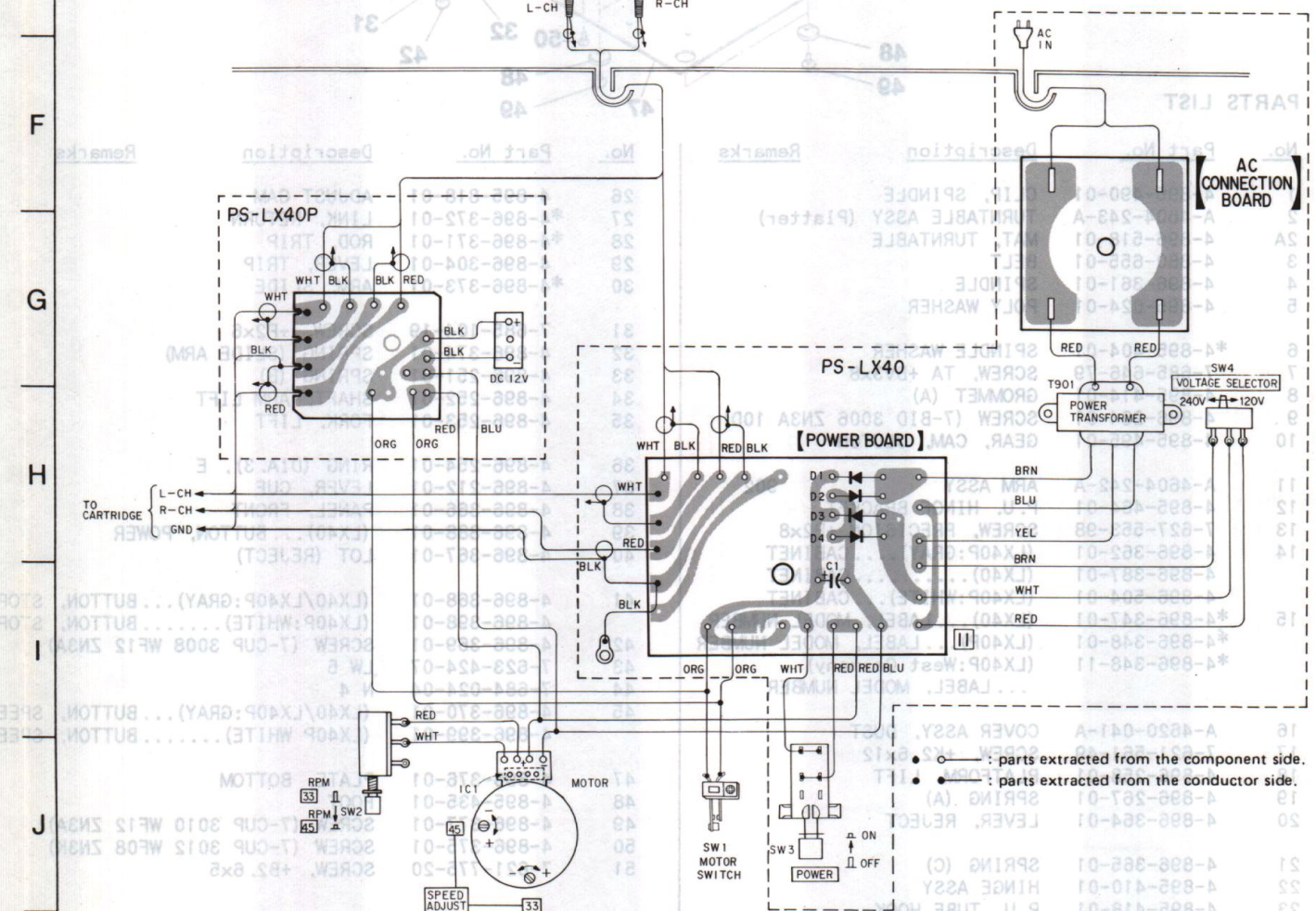
Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- Switches:

Ref. No.	Switch	Position
SW1	MOTOR	OFF
SW2	SPEED	33
SW3	POWER	OFF
SW4	VOLTAGE SELECTOR	240V

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

WIRING DIAGRAM



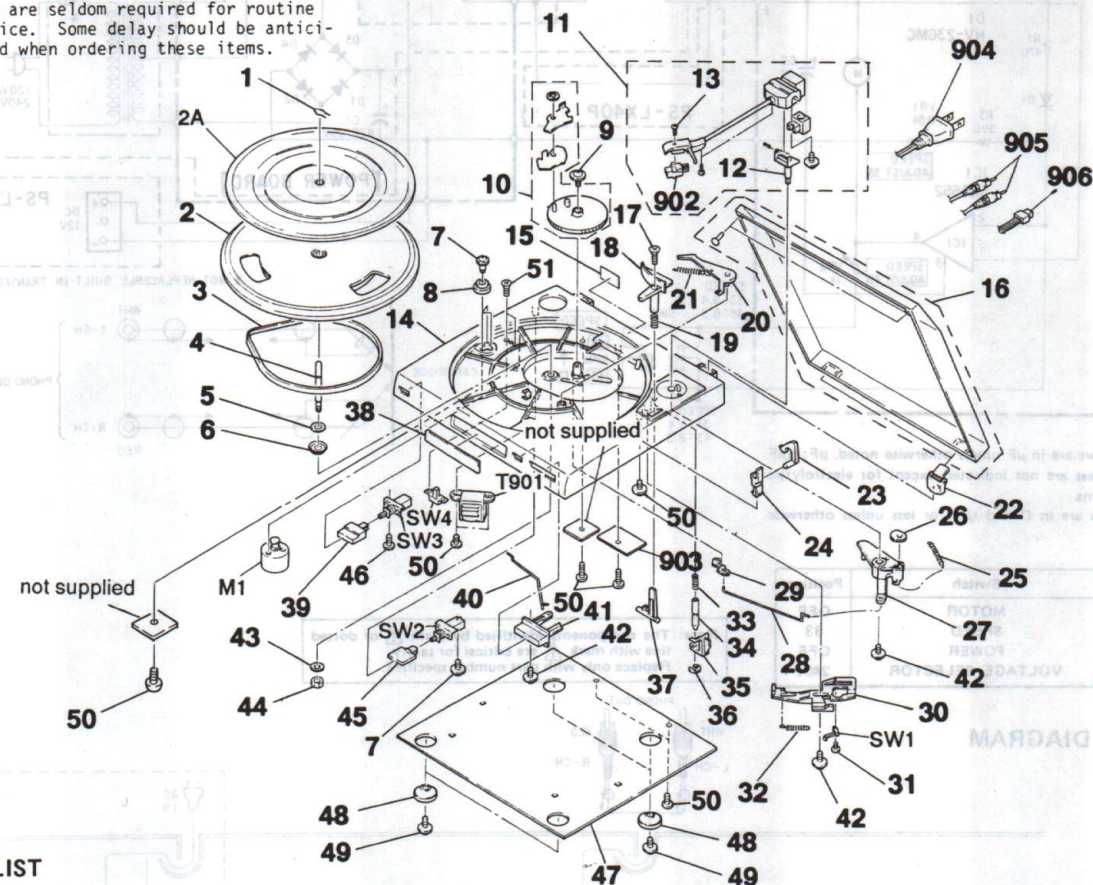
EXPLODED VIEW

NOTE:

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The construction parts of an assembled part are indicated with a collation number in the remark column.



PARTS LIST

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	4-895-490-01	CLIP, SPINDLE		26	4-895-818-01	ADJUST CAM	
2	A-4604-243-A	TURNABLE ASSY (Platter)		27	*4-896-372-01	LINK, RETURN	
2A	4-896-518-01	MAT, TURNABLE		28	*4-896-371-01	ROD, TRIP	
3	4-880-655-01	BELT		29	4-896-304-01	LEVER, TRIP	
4	4-896-361-01	SPINDLE		30	*4-896-373-01	ARM, SLIDE	
5	4-895-024-01	POLY WASHER		31	7-685-104-19	SCREW, +P2x6	
6	*4-895-404-01	SPINDLE WASHER		32	4-896-374-01	SPRING (SLIDE ARM)	
7	7-685-646-79	SCREW, TA +BV3x8		33	4-896-251-01	SPRING (B)	
8	4-895-414-01	GROMMET (A)		34	4-896-252-01	SHAFT, ARM LIFT	
9	4-896-294-01	SCREW (7-BID 3006 ZN3A 10D)		35	4-896-253-01	FORK, LIFT	
10	4-895-495-01	GEAR, CAM, CLUTCH		36	4-896-254-01	RING (DIA. 3), E	
11	A-4604-242-A	ARM ASSY	902	37	4-896-212-01	LEVER, CUE	
12	4-895-464-01	P.U. HINGE BRACKET		38	4-896-366-01	PANEL, FRONT	
13	7-627-553-98	SCREW, PRECISION +P2x8		39	4-896-388-01	(LX40)...BUTTON, POWER	
14	4-896-362-01	(LX40P:GRAY)...CABINET		40	4-896-367-01	LOT (REJECT)	
	4-896-387-01	(LX40)...CABINET		41	4-896-368-01	(LX40/LX40P:GRAY)...BUTTON, STOP	
	4-896-504-01	(LX40P:WHITE)...CABINET		42	4-896-398-01	(LX40P:WHITE)...BUTTON, STOP	
15	*4-896-347-01	(LX40)...LABEL, MODEL NUMBER		43	4-896-369-01	SCREW (7-CUP 3008 WF12 ZN3A)	
	*4-896-348-01	(LX40P)...LABEL, MODEL NUMBER		44	7-623-424-07	LW 5	
	*4-896-348-11	(LX40P:West Germany)...LABEL, MODEL NUMBER		45	4-896-370-01	(LX40/LX40P:GRAY)...BUTTON, SPEED	
					4-896-399-01	(LX40P WHITE)...BUTTON, SPEED	
16	A-4620-041-A	COVER ASSY, DUST		47	4-896-376-01	PLATE, BOTTOM	
17	7-621-561-49	SCREW, +K2.6x12		48	4-895-435-01	FOOT	
18	4-896-258-01	PLATFORM, LIFT		49	4-896-377-01	SCREW (7-CUP 3010 WF12 ZN3A)	
19	4-896-267-01	SPRING (A)		50	4-896-375-01	SCREW (7-CUP 3012 WF08 ZN3K)	
20	4-896-364-01	LEVER, REJECT		51	7-621-775-20	SCREW, +B2.6x5	
21	4-896-365-01	SPRING (C)					
22	4-895-410-01	HINGE ASSY					
23	4-895-418-01	P.U. TUBE HOOK					
24	4-895-417-01	P.U. REST					
25	4-895-460-01	ADJUST SPRING					

ELECTRICAL PARTS

NOTE:

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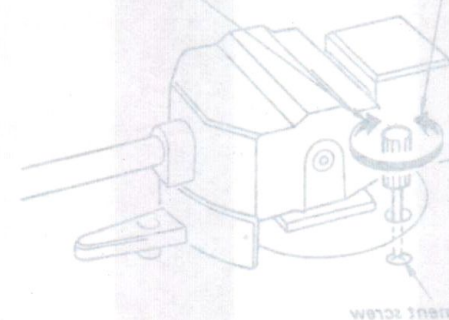
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Ref. No.	Part No.	Description
902	1-549-135-11	CARTRIDGE
903	- - -	(LX40)...PC BOARD, POWER
904	△ 1-555-795-00	(LX40:AEP, West Germany, Saudi Arabia).....CORD, POWER, EULO PLUG
	△ 1-551-188-XX	(LX40:E)...CORD, POWER
905	1-555-116-11	CORD, CONNECTION
906	1-557-109-21	(LX40P)...CORD, CONNECTION (3 CORE)
C1	1-123-336-00	ELECT 470μF 25V
D1	8-719-200-02	(LX40)...DIODE 10E2
D2	8-719-200-02	(LX40)...DIODE 10E2
D3	8-719-200-02	(LX40)...DIODE 10E2
D4	8-719-200-02	(LX40)...DIODE 10E2
M1	A-4604-244-A	MOTOR ASSY
SW1	1-570-666-11	SWITCH, LEAF
SW2	1-571-089-11	SWITCH, PUSH (1 KEY) (SPEED)
SW3	1-571-560-11	(LX40)...SWITCH, PUSH (1 KEY) (POWER)
SW4	△ 1-571-088-11	(LX40)...SWITCH, SLIDE (VOLTAGE SELECTOR)
T901	△ 1-449-291-11	(LX40)...TRANSFORMER, POWER

ACCESSORY & PACKING MATERIAL

3-701-806-00	ADAPTOR, 45
3-750-345-11	(LX40)...MANUAL, INSTRUCTION (English, French, Spanish)
4-896-513-01	(LX40)...INDIVIDUAL CARTON



Stylus Drop-point Adjustment

- Place a test record (YFSC-16) on the turntable.
- Set the SPEED switch to 33.
- Press the START button.
- By using a screwdriver, turn the adjustment screw so that the stylus tip drops on the record at the 7-17 counts position.
- 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.

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