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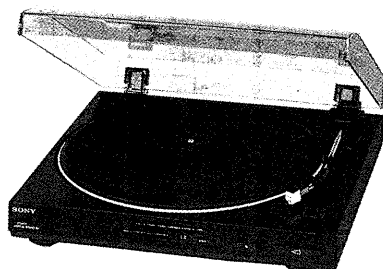
PS-LX60/LX60P

SERVICE MANUAL REVISED

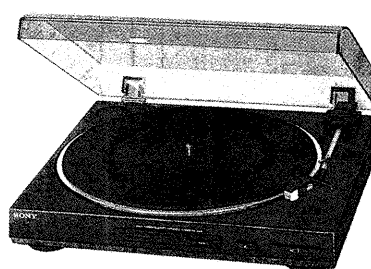
*AEP Model
E Model
PS-LX60*

*UK Model
E Model
PS-LX60P*

PS-LX60



PS-LX60P



• PS-LX60 is the turntable system in XO-D10, D20, D40, D50, and D70.

• PS-LX60P is the turntable system in XO-D50 and D70.

SPECIFICATIONS

Turntable

Platter	30 cm (12 in.)
Motor	DC servo motor
Drive system	Belt drive
Speed	33 $\frac{1}{3}$ rpm/45 rpm switchable
Wow and flutter	0.15% (WRMS)
Signal-to-noise ratio	65 dB (DIN-B)
Automatic system	Return, reject, lead in.

Tonearm

Type	Statically balanced
Pivot-to stylus length	206 mm (7 $\frac{7}{8}$ in.)
Overall arm length	235 mm (9 $\frac{3}{8}$ in.)

Cartridge

Type	Moving magnet type
Frequency response	20 Hz – 16 kHz
Stylus	ND-155G

General

Dimensions	355 × 100 × 340 mm (w/h/d) (14 × 4 × 13 $\frac{1}{2}$ inches)
Weight	Approx. 2.6 kg (4 lb 14 oz)
Power requirements	The model for Europe: 220 V AC, 50/60 Hz The model for other countries: 110 – 120 V, 220 – 240 V adjustable, 50/60 Hz
Power consumption	The model for Europe: 2 W The model for other countries : 4 W
Accessory supplied	45-rpm adaptor (1)

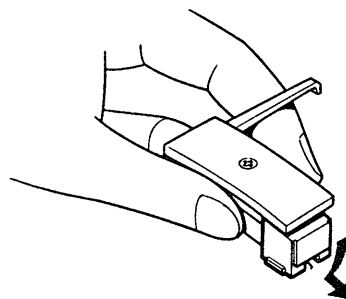
Note for Cartridge

Be careful not to use any cartridge except for specified one (Part No.: 1-549-135-11) as balance weight of pick up arm assy is fixed.

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.

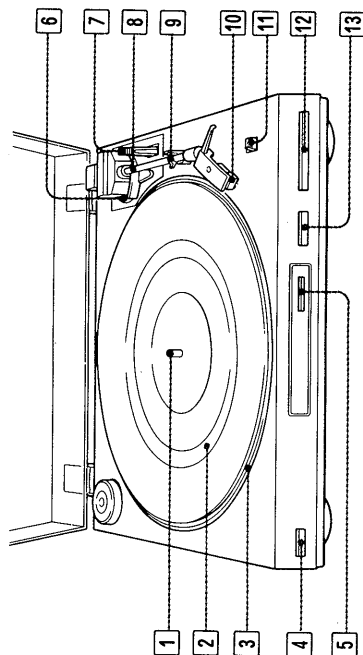
- 1 While holding the cartridge, detach the stylus assembly as illustrated.
- 2 Insert the new stylus into the cartridge.



STEREO TURNTABLE SYSTEM
SONY®

SECTION 1 GENERAL

LOCATION AND FUNCTION OF CONTROLS



- 1** Center spindle
- 2** Rubber mat
- 3** Turntable platter
- 4** POWER switch (PS-LX60 only)
- 5** SPEED select button
Allows selection of 45 rpm or 33 rpm turntable speed.
- 6** Drop point adjustment hole
- 7** Cueing lever (▼/▲)
- 8** Tonearm
- 9** Arm rest
- 10** Cartridge
- 11** SIZE SELECTOR
Allows selection of 17 cm (7 inch) or 30 cm (12 inch) records.
- 12** ◀(start) button
- 13** ■(stop) button

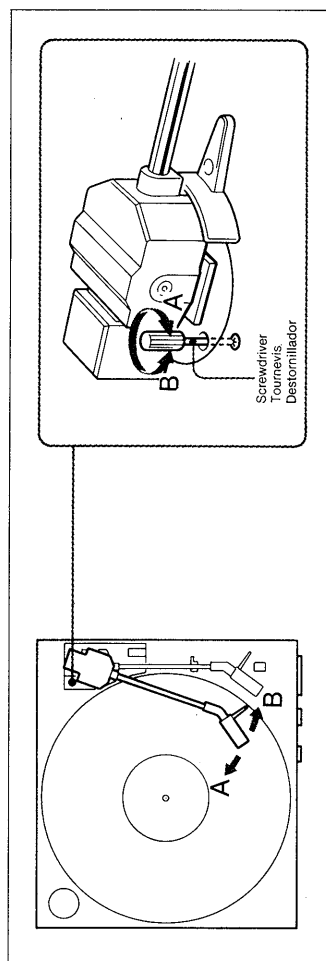
TONEARM DROP-POINT ADJUSTMENT

The tonearm drop-point during auto play has been factory-adjusted. If necessary, readjust it as follows.

To move the drop-point toward A, turn the adjustment screw clockwise with a screwdriver.

To move the drop-point toward B, turn the adjustment screw counterclockwise with a screwdriver.

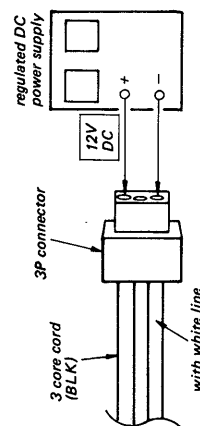
If the tonearm does not return to the arm rest automatically after play
Turn the adjustment screw counterclockwise.



REPAIRING PRECAUTION (PS-LX60P only)

[To supply B+ voltage]

The power of this unit is fed from DXA-DS0E. Because of this, connect the regulated DC power supply as illustrated right when this unit alone operates.



The schematic diagram illustrates the electrical components and connections for the PS-LX60 Model turntable system. It is divided into several functional sections:

- Cartridge Section:** Shows the connection for the Cartridge (L-CH and R-CH) to the turntable. The L-CH is connected to the WHT (White) terminal, and the R-CH is connected to the RED terminal.
- Motor Section:** Includes the Motor (M) and the Motor Switch (SW1). The Motor is connected to the AC input through a fuse (R1, 470) and a diode (D1). The Motor Switch (SW1) is connected to the Motor and the AC input. The Motor is also connected to the AC input through a fuse (R3, 390) and a diode (D1).
- Speed Control Section:** Features an AN6652 IC (IC1) with two speed adjusters (VR1 and VR2). VR1 is labeled "SPEED ADJUST 33" and VR2 is labeled "SPEED ADJUST 45". The Motor is connected to the speed control circuit through a fuse (R1, 470) and a diode (D1).
- Power Board Section (Top):** Labeled "PS-LX60 MODEL", it contains a power transformer (T901), a bridge rectifier (D2-D5, IN4002x4), and a filter capacitor (C1, 4700 25V). The transformer is connected to the AC input (220V 50Hz) and the Motor. The bridge rectifier is connected to the filter capacitor and the Motor.
- Power Board Section (Bottom):** Labeled "PS-LX60P MODEL", it contains a power transformer (T901), a bridge rectifier (D2-D5, IN4002x4), and a filter capacitor (C1, 4700 25V). The transformer is connected to the AC input (120V/60Hz or 240V/50Hz) and the Motor. The bridge rectifier is connected to the filter capacitor and the Motor.

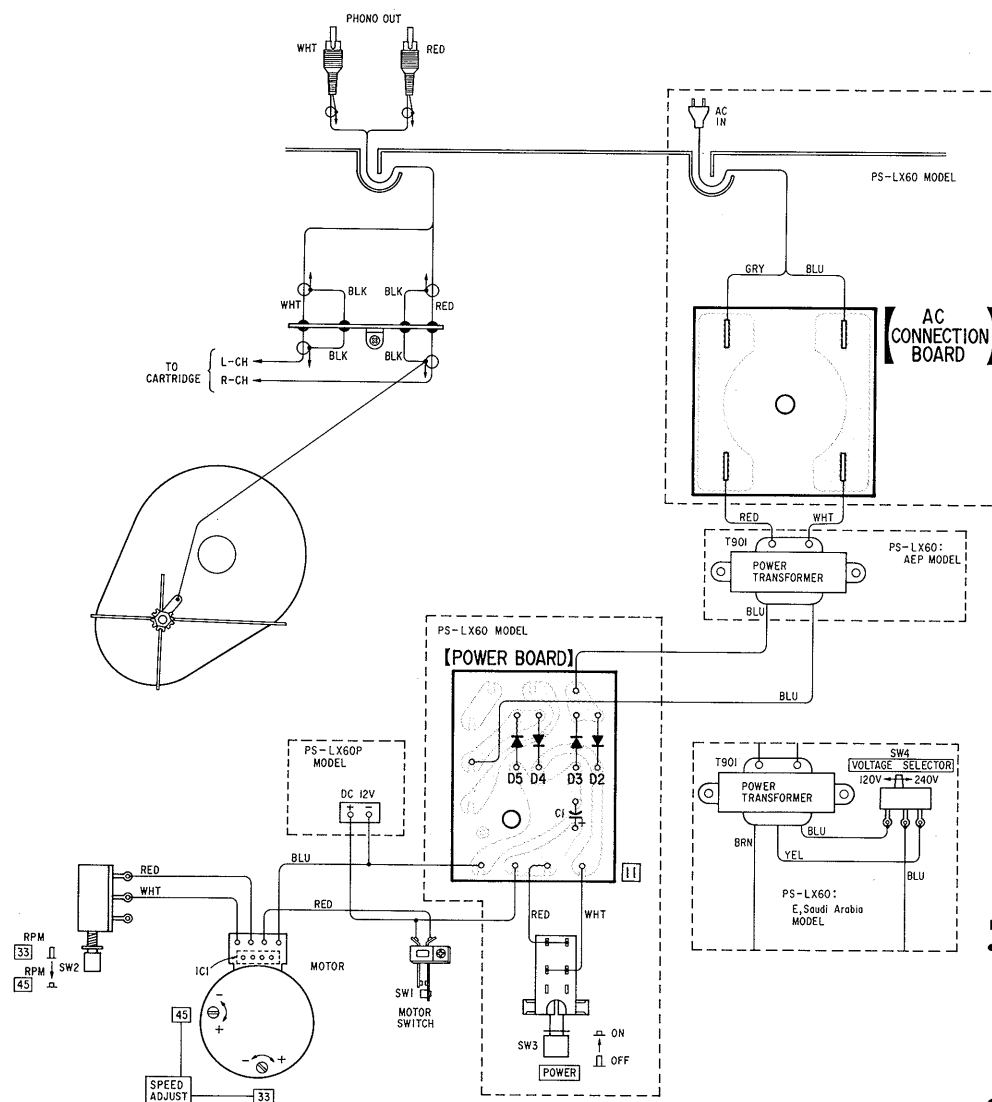
Key components and labels include:

- Motor:** HV-23GMC (M)
- Cartridge:** L-CH, R-CH, WHT, RED
- Speed Control:** SPEED 33: 11.8, 45: 11.6; SPEED 33: 9.4, 45: 8.4
- Power Transformer:** T901, PS-LX60, PS-LX60P
- Bridge Rectifier:** D2-D5, IN4002x4
- Filter Capacitor:** C1, 4700 25V
- AC Input:** 220V 50Hz, 120V/60Hz, 240V/50Hz
- DC Output:** DC12V

***NOT REPLACEABLE: BUILT IN TRANSFORMER**

Ref. No.	Switch	Position
SW1	MOTOR	OFF
SW2	SPEED	33
SW3	POWER	OFF
SW4	VOLTAGE SELECTOR	120V

2-2. WIRING DIAGRAM



— 3 —

SECTION 3

EXPLODED VIEWS

REVISED**NOTE:**

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

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts

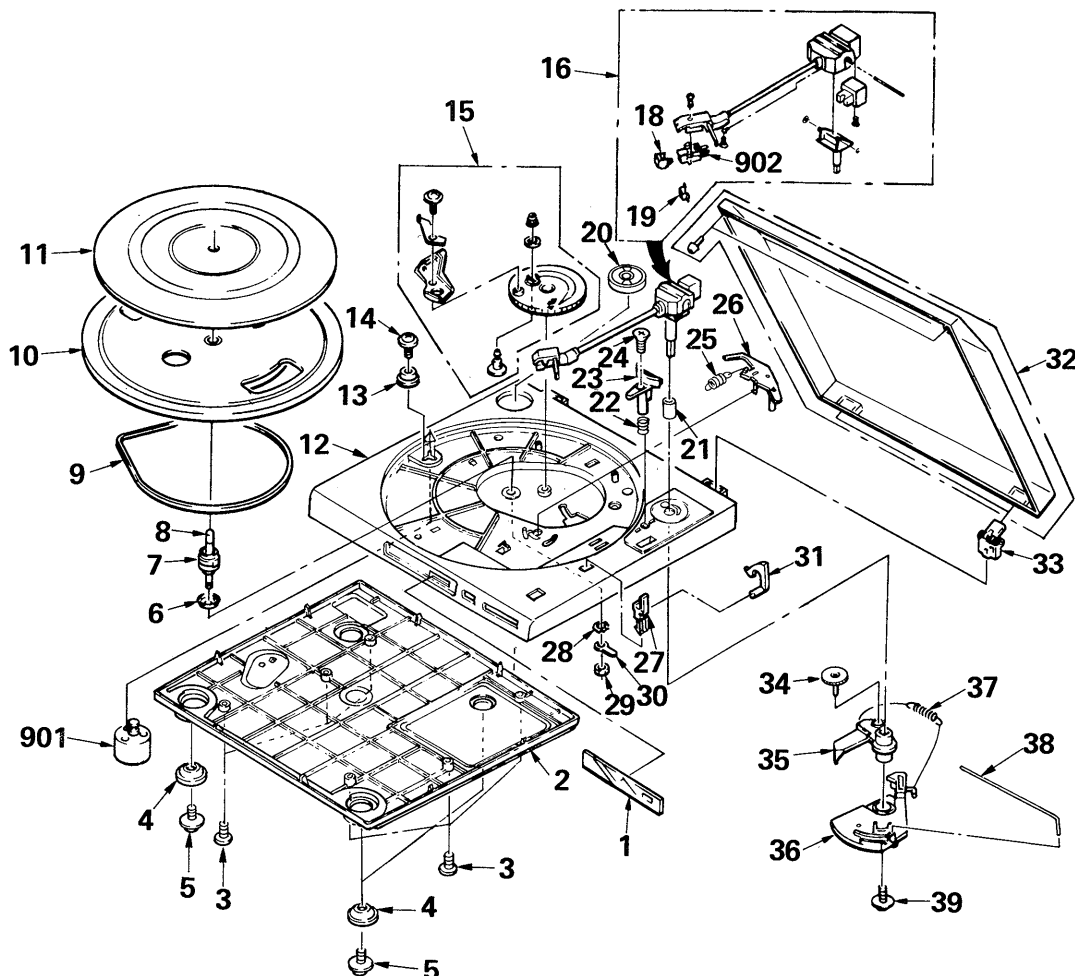
Example:

(RED) ... KNOB, BALANCE (WHITE)

↑
Cabinet's Color↑
Parts Color

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

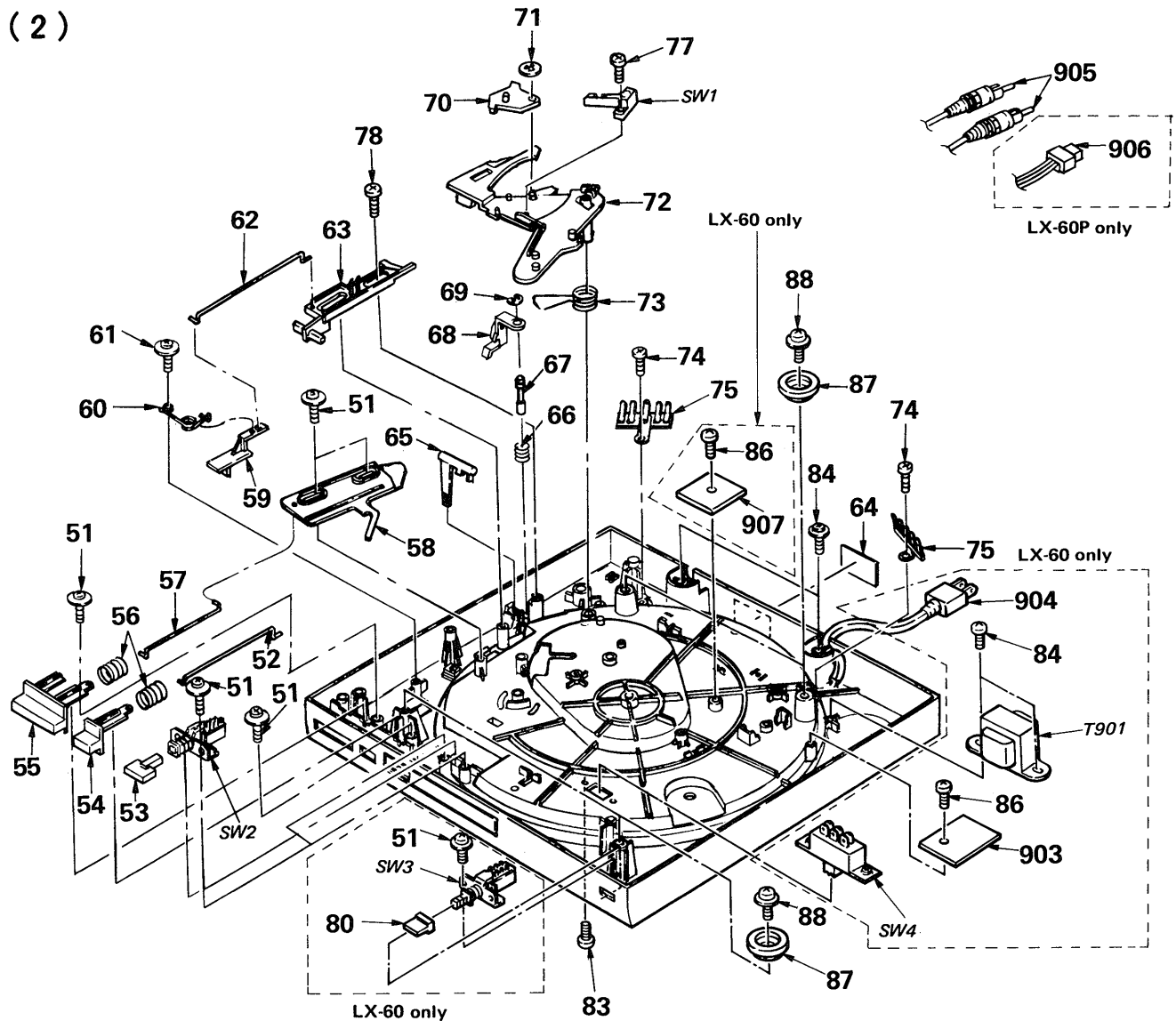
(1)



No.	Part No.	Description	Remarks
1	4-896-209-01	PANEL, FRONT	
2	*4-896-217-01	(BLACK)... BOARD, BOTTOM	
	4-896-217-01	(GRAY)... BOARD, BOTTOM	
	4-896-289-01	(WHITE)... BOARD, BOTTOM	
3	4-896-246-01	SCREW (7-BID 3010 ZN3A)	
4	4-895-435-01	FOOT	
5	4-895-430-01	SCREW (7-BID 3008 ZN3A 12D)	
6	4-896-210-01	WASHER	
7	4-896-233-01	GEAR, T/T	
8	4-896-232-01	SPINDLE	
9	4-880-655-01	BELT	
10	4-896-333-01	TURNTABLE	
11	4-896-334-01	TURNTABLE	
12	4-928-255-01	(BLACK)... CABINET	
	4-896-288-01	(LX60P: WHITE)... CABINET	
	4-928-253-01	(LX60: WHITE)... CABINET	
	4-928-256-01	(LX60: GRAY)... CABINET	
	4-928-254-01	(LX60P: GRAY)... CABINET	
13	4-895-414-01	GROMMET (A)	
14	4-895-413-01	SCREW	
15	X-4895-409-1	GEAR ASSY, CAM	
16	X-4895-410-1	ARM ASSY	
18	4-896-234-01	BEAM	
19	4-896-235-01	COVER, BEAM	

No.	Part No.	Description	Remarks
20	3-701-806-00	ADAPTOR, 45	
21	*4-896-265-01	SHAFT, P.U	
22	4-896-267-01	SPRING (A)	
23	4-896-258-01	PLATFORM, LIFT	
24	4-896-259-01	SCREW (1-FLAT 2612 ZN3K)	
25	4-896-262-01	SPRING	
26	4-896-260-01	LEVER, REJECT	
27	4-895-417-01	P.U. REST	
28	4-895-443-01	W GEAR 0003 ZN3A	
29	4-895-445-01	NUT 50 ZN3A	
30	4-896-239-01	TERMINAL, GROUND	
31	4-895-418-01	P.U. TUBE HOOK	
32	A-4620-041-A	COVER ASSY, DUST	
33	4-895-410-01	HINGE ASSY	
34	4-895-458-01	ADJUST CAM	
35	4-896-223-01	LINK (A), RETURN	
36	4-896-224-01	LINK (B), RETURN	
37	4-895-460-01	ADJUST SPRING	
38	*4-896-264-01	ROD, TRIP	
39	4-896-249-01	SCREW (7-BID 3014 ZN3A 12D)	
901	1-541-568-11	MOTOR	
902	1-549-135-11	CARTRIDGE	
903	1-626-640-11	(LX60)...PC BOARD, POWER	

(2)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	4-895-879-01	SCREW (7-BID 3008 ZN3A 10D)		73	4-896-247-01	SPRING	
52	4-896-261-01	WIRE, REJECT		74	4-896-263-01	SCREW (7-BID 3008 ZN3A)	
53	4-896-241-01	(BLACK)... BUTTON, SPEED		75	*4-895-423-01	LUG TERMINAL	
	4-896-241-11	(GRAY)... BUTTON, SPEED		76	4-896-256-01	SCREW ASSY	
	4-896-290-01	(WHITE)... BUTTON, SPEED					
54	4-896-240-01	(BLACK)... BUTTON, STOP		77	7-685-104-19	SCREW (7-PAN 2006 ZN3A)	
	4-896-240-11	(GRAY)... BUTTON, STOP		78	7-685-649-79	SCREW (7-BID 3016 ZN3A)	
	4-896-291-01	(WHITE)... BUTTON, STOP		80	4-895-896-01	(LX60)... BUTTON, POWER	
55	4-896-242-01	(BLACK)... BUTTON, START					
	4-896-242-11	(GRAY)... BUTTON, START		83	7-621-775-20	2-BID 2605 ZN3A	
	4-896-292-01	(WHITE)... BUTTON, START		84	4-895-430-01	SCREW (7-BID 3008 ZN3A 12D)	
56	4-896-255-01	SPRING		86	7-685-647-79	SCREW +P 3X10 TYP A N-S	
57	4-896-216-01	WIRE, CONTROL ARM		87	4-895-435-01	FOOT	
58	4-896-215-01	LEVER, CONTROL		88	7-685-646-79	SCREW (7-BID ZN3A 12D)	
59	4-896-243-01	KNOB, SPEED		903	1-626-640-11	(LX60)... PC BOARD, POWER	
60	4-896-244-01	SPRING		904	Δ.1-551-908-11	(LX60: AEP, Saudi Arabia)	
61	4-896-245-01	SCREW (7-CUP 3008 ZN3A 10D)			Δ.1-551-188-XX	(LX60: E)...CORD, POWER	
62	*4-896-213-01	WIRE, SELECTOR		905	1-558-595-11	CORD, CONNECTION	
63	4-896-214-01	SELECTOR, SIZE		906	1-558-596-11	(LX60P)... CORD, CONNECTION (3 CORE)	
64	*4-896-208-01	LABEL, MODEL NUMBER (ALL)		907	4-896-337-01	(LX60)... PC BOARD, AC CONNECTION	
65	4-896-212-01	LEVER, CUE					
66	4-896-251-01	SPRING (B)		SW1	1-570-666-11	SWITCH, LEAF	
67	4-896-252-01	SHAFT, ARM LIFT		SW2	1-571-419-11	SWITCH, PUSH (1KEY)	
68	4-896-253-01	FORK, LIFT		SW3	1-571-560-11	(LX60)...SWITCH, PUSH (1 KEY)	
69	4-896-254-01	RING (DIA.3), E		SW4	Δ.1-571-088-11	(LX60: E, Saudi Arabia)... SWITCH, SLIDE	
70	4-896-248-01	CAM					
71	4-303-605-00	PUSH NUT DIA.3		T901	Δ.1-449-290-11	(LX60: AEP).....TRANSFORMER, POWER	
72	4-896-218-01	ARM, CONTROL		T901	Δ.1-449-291-11	(LX60: E, Saudi Arabia).TRANSFORMER, POWER	

SECTION 4

ELECTRICAL PARTS LIST

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.

CAPACITORS:MF: μ F, PF: μ μ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORSIn each case, U: μ , for example:UA...: μ A..., UPA...: μ PA...,UPC...: μ PC, UPD...: μ PD...

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
901	1-541-568-11	MOTOR
902	1-549-135-11	CARTRIDGE
903	1-626-640-11	(LX60) ... PC BOARD, POWER
904	 1-555-795-00	(LX60: AEP, West Germany, Saudi Arabia) CORD, POWER, EULO PLUG
	 1-551-188-XX	(LX60: E) ... CORD, POWER
905	1-558-595-11	CORD, CONNECTION
906	1-558-596-11	(LX60P) ... CORD, CONNECTION (3 CORE)
907	4-896-337-01	(LX60) ... PC BOARD, AC CONNECTION
C1	1-123-336-00	ELECT 470 20% 25V
D2	8-719-200-02	(LX60) ... DIODE 10E2
D3	8-719-200-02	(LX60) ... DIODE 10E2
D4	8-719-200-02	(LX60) ... DIODE 10E2
D5	8-719-200-02	(LX60) ... DIODE 10E2
SW1	1-570-666-11	SWITCH, LEAF
SW2	1-571-419-11	SWITCH, PUSH (1 KEY)
SW3	1-571-560-11	(LX60) ... SWITCH, PUSH (1 KEY)
SW4	 1-571-088-11	(LX60: E, Saudi Arabia) ... SWITCH, SLIDE
 T901	 1-449-291-11	(LX60: E, Saudi Arabia) ... TRANSFORMER, POWER
 T901	 1-449-290-11	(LX60: AEP, West Germany) ... TRANSFORMER, POWER

ACCESSORY & PACKING MATERIAL

4-896-206-01	(LX60: West Germany) ... INDIVIDUAL CARTON
4-896-336-01	(LX60: AEP, E Saudi Arabia) ... INDIVIDUAL CARTON
3-701-806-00	ADAPTOR, 45
3-769-871-12	(LX60: AEP, E, Saudi Arabia) ... MANUAL, INSTRUCTION
3-769-871-41	(LX60: AEP, West Germany) ... MANUAL, INSTRUCTION
4-895-483-01	SLEEVE, DUST COVER