AIWA®

S/M Code No. 84-009
DATE OF ISSUE 3/1984

SERVICE MANUAL

STEREO TURNTABLE SYSTEM

MODEL NO. LX-50

TYPE. H,HB,E,EB,K,KB,G

SPECIFICATIONS

<GENERAL>

Power source:	H. HB models AC 120V/220V/240V switchable, 50/60 Hz E. EB models AC 220V. 50/60 Hz K. KB. G models AC 240V. 50/60 Hz
Power consumption:	10W
Dimensions:	330(W)×88(H)×330(D) mm (13"×3-1/2"×13")
Weight:	4.1kg (9 lbs)

<TURN TABLE SECTION>

Drive system:	Frequency generated direct drive system
Motor:	4-phase 8-pole linear torque DD hall motor
Turntable platter:	Aluminum alloy diecast
Speeds:	33-1/3 and 45 rpm
Wow & Flutter:	0.045% (WRMS)
S/N ratio:	70 dB (DIN-B)

<TONE ARM SECTION>

Type:	Linear tracking type Straight static balanced type
Effective arm length:	131 mm
Tracking error:	10°
Arm elevation time: (nermal temperature)	1.2s/1.2s (DOWN/UP)

<CARTRIDGE SECTION>

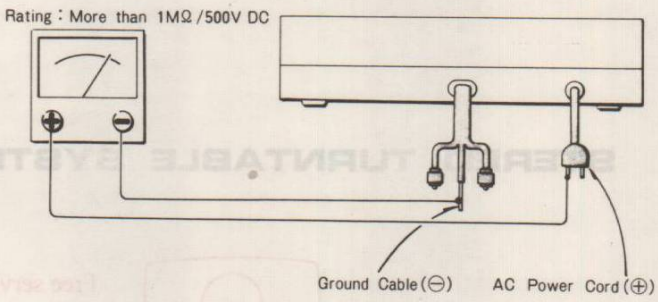
Type:	VM type
Frequency response:	20~20,000 Hz
Out put voltage:	2.3+1.5/-0.5 mV (1 kHz 3.54 cm/s)
Separation:	More than 18 dB (33-1/3 rpm. at 1 kHz)
Stylus pressure:	1.5±0.3g
Load impedance:	47 kΩ
Dynamic compliance:	5×10^{-6} cm/dyne
Stylus tip:	0.6 mil. Diamond

- The specifications and external appearance of this set are subject to change without prior notice.

Follow the instructions carefully, which will allow the user to optimise the products' performance and give many years of serivce.

1. **No scratch and melting shall be made to covered lead-wires of an a.c. primary circuit including mains leads.**
2. **No illegibility shall be given to the specification plate, the caution labels, the fuse labels and others.**
3. **When, on pattern sides of circuit boards, additional repair-parts have been made up, the parts shall be firmly glued to circuit boards or other components, unless the parts can be attached firmly.**
4. **The following matters shall be maintained as they are, when repairing.**
   1) Soldering of lead-wire ends
      * Care should be taken of the space distance in an a.c. primary circuit as well as soldering.
   2) Wiring and holding of lead-wires with wire-clips and binders
   3) Materials of lead-wires
      * e.g.; For UL models, lead-wires to be used shall be approved or accepted by the UL.
   4) Location of all kinds of insulators
   5) Setting of voltage selector switch
      * Set the Voltage Selector Switch to 240V, 220V, or 120V, According to your Local Voltage.
5. **After repaired, the insulation resistance or leakage current shall be measured with 500 ± 5V D.C and shall be not less than 1MΩ.**

Measuring Point



As to the disassembling instructions, refer to the service manual of LX-110.

ELECTRICAL MAIN PARTS LIST

"★★★" shows unavailable Repair Part.

Symbol No.	Part No.	Description	Remark
<MAIN CIRCUIT BOARD SECTION>			
PCB-A	※	MAIN CIRCUIT BOARD	
⊕IC1	84-124-635	IC, TLCS-43	
IC2	87-027-827	IC, TC4069UBP	
IC3	87-020-147	IC, M54547	
IC4	87-020-149	IC, BA6208	
Q101	89-415-090	TRANSISTOR, 2SD1509	
Q102	89-404-713	TRANSISTOR, 2SD471 (L)	
Q103	89-318-464	TRANSISTOR, 2SC1846R, S	
Q104	89-110-153	TRANSISTOR, 2SA-1015 (O)	
Q105	84-195-639	PHOTO TRANSISTOR, PN150	
Q106	89-318-154	TRANSISTOR, 2SC1815 (Y)	
Q107,108, 109	89-320-011	TRANSISTOR, 2SC2001 (K)	
Q110,111	87-026-198	TRANSISTOR, DTA124	
D101,102	87-027-365	DIODE, S5277B	
D103,108, 109,110, 111,112, 113,114	87-027-097	DIODE, 1S1555	
D104	87-027-364	ZENER DIODE, HZ12A3L	
D105	87-027-556	ZENER DIODE, HZ11B3	
D106	87-027-332	ZENER DIODE, HZ6B1L	
D107	87-027-943	LED, PR5731K (REPEAT)	
L101	84-128-602	COIL, OSC500N	
SW101,102, 103,104, 105	87-031-741	TACT SWITCH, (START/CUT, RIGHT, LEFT, UP/DOWN, REPEAT)	
SW106	87-031-737	PUSH-SWITCH, (SPEED)	
SFR101	87-021-745	SEMI-FIXED RESISTOR, 47kΩ-B	
PIN101,102	87-049-273	PIN, 3P	★★★
PIN103	87-049-404	PIN, 7P	★★★
PIN104,105	87-049-275	PIN, 5P	★★★
PIN106	87-049-396	PIN, 2P	★★★
PIN107	87-049-407	PIN, 6P	★★★
PIN108	87-049-397	PIN, 2P	★★★
PIN109	87-049-260	PIN, 2P	★★★
PIN110	87-049-398	PIN, 2P	★★★
PIN111	87-049-357	PIN, 5P	★★★
<CAPACITOR>			
C101,102 103	87-010-119	1000μF 35V ELECTROLYTIC	
<POSITION SENSOR PHT CIRCUIT BOARD SECTION>			
PCB-B	※	POSITION SENSOR PHT CIRCUIT BOARD	
Q112,113	84-195-667	PHOTO TRANSISTOR PN150	
CON104	84-127-638	CONNECTOR Ass'y, 5P	

Symbol No.	Part No.	Description	Remark
<LED CIRCUIT BOARD SECTION>			
PCB C	※	LED CIRCUIT BOARD	
D115	84-195-638	LED, LN55	
<POWER SW CIRCUIT BOARD SECTION>			
PCB D	※	POWER SW CIRCUIT BOARD	
SW107	87-031-739	PUSH SWITCH, (POWER)	
<ANGLE SENSOR CIRCUIT BOARD SECTION>			
PCB E	※	ANGLE SENSOR CIRCUIT BOARD	
CP101	87-020-150	SENSOR, KU107	
CON102	84-127-637	CONNECTOR Ass'y, 3P	★★★
<PHONO MOTOR CIRCUIT BOARD SECTION>			
M1	84-128-603	DC MOTOR (PHONO)	
<MISCELLANEOUS>			
⚠T1	84-128-615	POWER TRANSFORMER (H, HB only)	
⚠T1	84-128-613	POWER TRANSFORMER (E, EB only)	
⚠T1	84-128-614	POWER TRANSFORMER (K, KB, G only)	
M2,M3	84-127-601	DC MOTOR (UP/DOUN, LINEAR)	
SW108,109	87-031-736	LEAF SWITCH (UP SENSOR, DOWN SENSOR)	
⚠SW110		ROTRARY SWITCH (AC VOLTAGE) (H, HB only)	
	87-033-140	SPLICE CONNECTOR	
⚠	87-085-165	CORD BUSHING (H, HB only)	
⚠	87-085-185	CORD BUSHING (E, EB, K, KB, G only)	
⚠	87-034-956	AC POWER CORD (H only)	
⚠	87-034-958	AC POWER CORD (HB only)	
⚠	87-034-877	AC POWER CORD (E, EB only)	
⚠	87-034-711	AC POWER CORD (K, KB, G only)	
	84-199-606	OUTPUT CORD Ass'y (L-CH, R-CH OUTPUT)	
	84-124-665	REC SYNC CORD Ass'y	

⚠ Safety component symbol

This symbol is given to important parts which serve to maintain the safety of the product, and which are made to conform to special safety specifications. Therefore, when replacing a component with this symbol, make absolutely sure that you use a designated part.

C-MOS IC handling precaution

The C-MOS IC's construction makes this part susceptible to damage by static electricity and so take sufficient care in regard to following articles.

1. Need to be put on conductive sheet, to be put in a metallic box and to be wrapped by aluminium foil for transportation and deposit.
2. To use solder iron less than 40W (less than 260℃) of power consumption for soldering. But do not overheat more than 10 second.
3. Do not perform a conductivity test with a tester, etc. Refer to the circuit voltages of each part.
4. The ICs on the electrical parts which are indicated by an C-MOS IC symbol mark (⊕).

Note; Combination Circuit Board

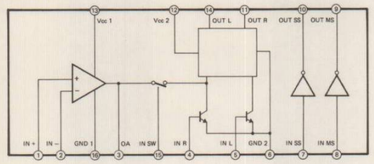
The parts on the electrical parts list which are indicated by an asterisk (*) are supplied as one single combined circuit board. Therefore, they will not be supplied separately. If this becomes necessary, please order the entire circuit board.

Combination circuit board A 84-128-620-11
- **PCB-A 84-128-621-11**
- **PCB-D 84-128-622-11**

Combination circuit board B 84-127-626-01
- **PCB-B 84-127-629-01**
- **PCB-E 84-127-627-01**
- **PCB-C 84-127-628-01**

IC 説明

IC M54547



Pin No.	Pin mark	Function
1	1N+	Angle sensor input. Voltage rises when arm angle drifts.
2	IN-	Operation amp (-) pin.
3	OA	Operation amp output.
4	IN R	Rightward movement input.
5	IN L	Leftward movement input.
6	GND_2	GND
7	IN SS	Size sensor input
8	IN MS	Music sensor input
9	OUI MS	Music sensor output
10	OUI SS	Size sensor input
11	OUI R	Rightward movement output. 8V during arm UP and movement to the right.
12	Vcc_2	+10V
13	Vcc_1	+12V
14	OUI L	Leftward movement output. 3~4V during arm DOWN operation and 8V during arm UP. movement to the left.
15	IN SW	Set to "H" during arm DOWN operation and the switch inside IC is set to ON.
16	GND_1	GND

IN PUT			OUT PUT		Remarks
IN SW	IN R	IN L	OUT R	OUT L	
0	1	0	1	0	Forward rotation (during arm UP and movement to the right)
0	0	1	0	1	Reverse rotation (during arm UP and movement to the left)
0	1	1	0	0	Brake
1	0	0	1	0	Analog forward rotation (Not possible in normal operation)
1	0	1	0	1	Analog reverse operation (during arm DOWN operation)

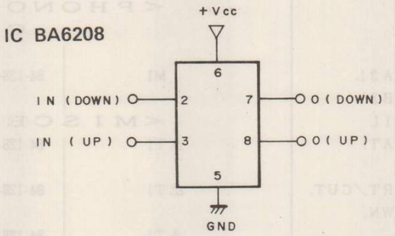
(Note) • 1Nsw = 1
Inhibit
1Ni = 1
• Oscillation may occur when the brake is applied.

IC TLCS-43

IC1 TLCS-43 Pin specifications

Pin No.	Pin mark	Function
1	TEST	Power pin
2~5	KEY 1 KEY 4	Key inputs
6	UP	Arm UP output. Set to "LOW" during arm UP operation.
7	DOWN	Arm DOWN output. Set to "HIGH" during arm DOWN operation.
8	ARM.R	Arm rightward movement output. Set to "LOW" while arm is moving to the right.
9	ARM.L	Arm leftward movement output. Set to "LOW" while arm is moving to the left.
10~16	PRG 1 PRG 7	Not used.
17	REPEAT	REPEAT indication output. Lit at "LOW" .
18	RPM	Phonomotor speed select output. "LOW" →45 rpm "HIGH" →33 rpm
19	PHM	Phonomotor ON/OFF output. Rotates at "LOW" and stops at "HIGH" .
20	DK.MUTE	Not used.
21	GND	GND
22	INI	Not used.
23	RST	RESET input. Reset at "LOW" .
24	X IN	Clock input. 5Vp-p. 500kHz.
25	X OUT	Clock output. 2Vp-p. 500kHz.
26 27	LOAD OUT M LOAD IN M	Grounded and not used in LX-50.
28	A.KILL	Arm UP: "LOW" . Angle sensor muting output. Arm DOWN: "HIGH" .
29	RMT.B	Remote control input. Starts musical performance at the rise to "HIGH" from "LOW" .
30	KEY 9	GND (not used)
31 32 33	KEY 8 KEY 7 KEY 6	Key matrix inputs.
34	DK SNS	+5V (not used)
35	S SNS	Record size detection input. Judges a 17cm record when an "L" pulse is output from the 30I position of the sensor. and judges a 30cm record when it "H" at the 30I position of the sensor.
36	DWN S	Arm sensor input. "LOW" during DOWN operation.
37	UP S	Arm UP sensor input. "LOW" during UP operation.
38	POS 2	Tone arm position detection input. Detects 30cm TOP, 25cm TOP, 17cm TOP, 30cm END.
39	POS 1	Tone arm movement range detection input. Detects the rest position 17cm END.
40	RMT A	+5V (not used)
41	KEY 5	Key input
42	V_{pp}	+5V

IC BA6208



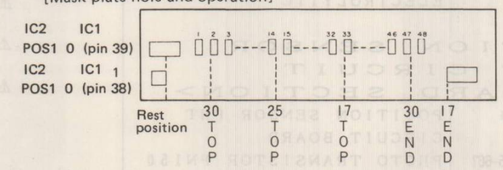
IN (DOWN)	IN (UP)	O (DOWN)	O (UP)	Arm operation
1	0	H	L	DOWN
0	1	L	H	UP
1	1	L	L	None in seneral
0	0	H	H	Stop

[Arm position and microprocessor port]

	POSI 0	POSI 1
Rest position	1	1
30 TOP	No.2	0
25 TOP	No.14	0
17 TOP	No.33	0
30 END	No.47	0
17 END	0	1

POSITION SENSOR

[Mask plate hole and operation]



ADJUSTMENT

1. Stylus height adjustment

1) Place a service jig on the external circumference of the rubber sheet and turn the adjustment screw to adjust so that the stylus height is at the position shown in the diagram. (Refer to Fig. 1)

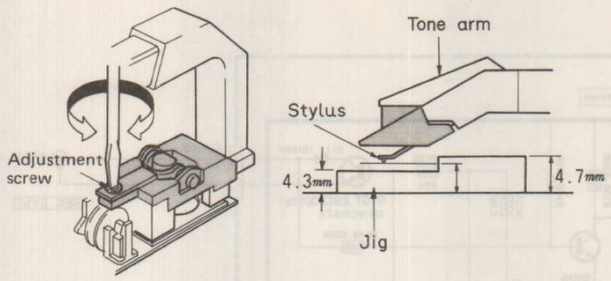


Fig. 1

2) Turn the turntable 180° after adjusting the height at adjustment point (1); if the stylus height at adjustment point (2) is 4.7mm or more, adjust it again. (Refer to Fig. 2)

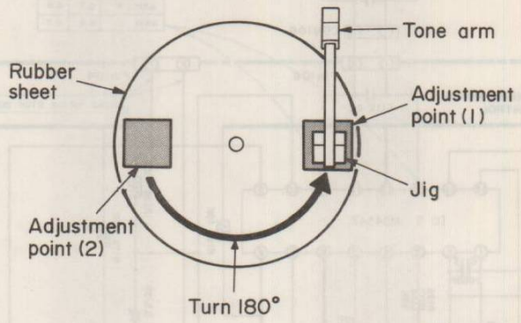


Fig. 2

Reference
1. Standard : 3.5~5.5mm.
2. When the cabinet is attached, the adjustment height may be approx. 0.2mm heighter.

2. Angle sensor (A sensor) adjustment

Perform this adjustment after adjusting the stylus height.

1) Remove the belt of the linear motor.
2) Short-circuit PIN 109 and stop the turntable.
3) Place a test record (ATR-003) on the turntable.
4) Turn the adjustment boss clockwise (in the direction of the arrow) and move the holder fully in the direction of the arrow. (Refer to Fig. 3)
5) Move the tone arm to the auto check 25cm position by hand.
6) Adjust SFR101 so that the voltage between test points TP1 and TP2 is 7 ± 1V. (UP condition)
7) Press the UP/DOWN button to lower the arm.
8) Turn the adjustment screw clockwise so that the voltage is 1 ± 0.1V. (DOWN condition)

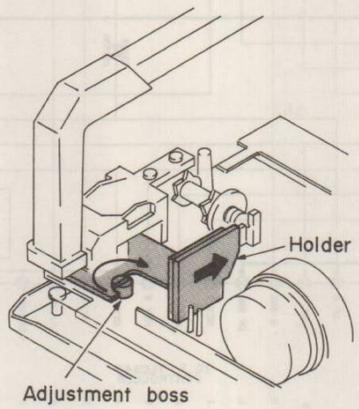


Fig. 3

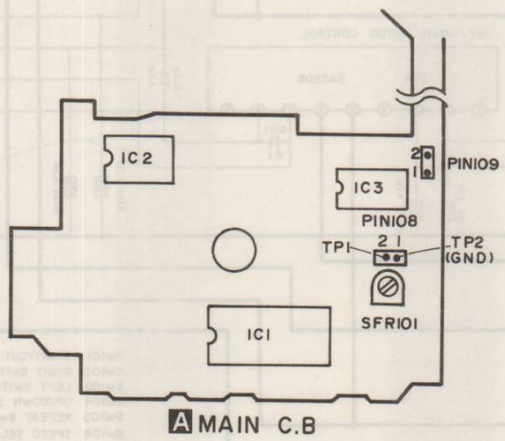


Fig. 4

3. Auto-in/out adjustment

30cm record

1) Plece AIWA test record (ATR-003) on the turn table, press the START/CUT button and turn the adjustment boss to adjust so that the auto-in count in 19~28. (Refer to Fig. 5)
2) Check that the auto-out count is 11~14 after adjustment is completed.
Adjust the auto-in again when the auto-out count is out of the specified range (11~14).

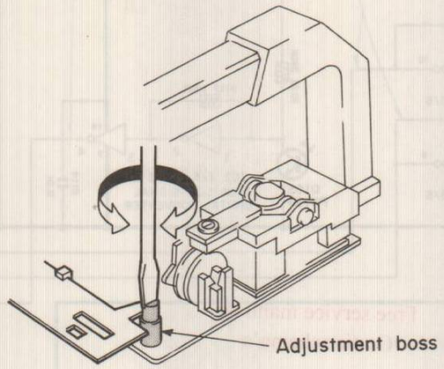


Fig. 5

17cm record

1) Press the START/CUT button and check that the auto in count is 24~37.
2) Check that the auto-out count is 15 or more after adjustment is completed.

[Method to check]
Prepare paper as shown in the diagram. Place it under the stylus and move the tone arm and pull out the paper when the tone arm passes the 25cm lend-in.
(Refer to Fig. 6)

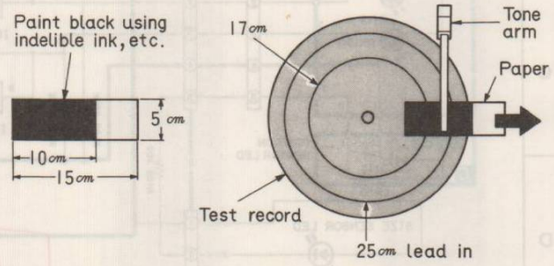
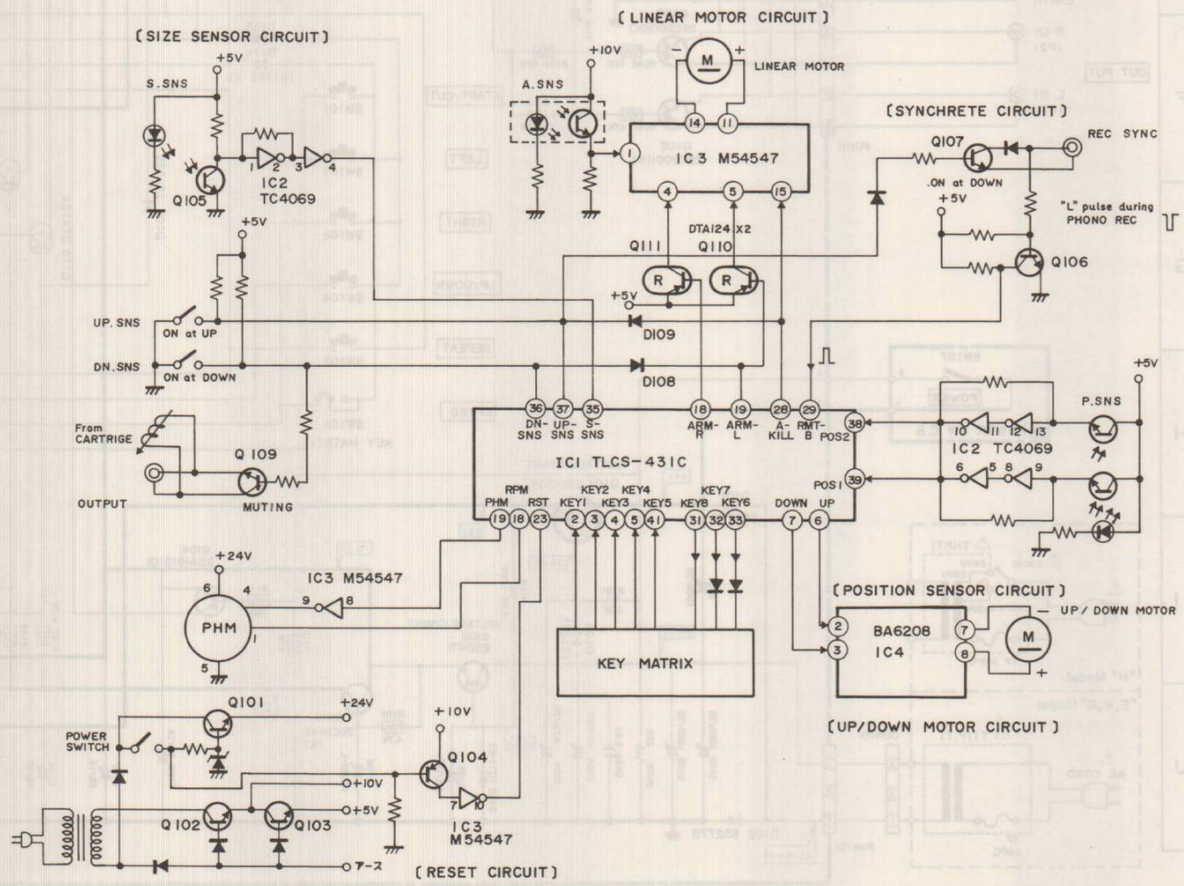


Fig. 6

BLOCK DIAGRAM



LX-50 H,HB,E,EB K,KB,G

LX-50 H,HB,E,EB K,KB,G

LX-50 H,HB,E,EB K,KB,G

AIW

SCHEMATIC DIAGRAM—1

1 2 3 4 5 6 7 8 9 10 11 12 13 14

A B C D E F G H I J

DURING POS1 DETECTION PIN ⑥ "H"
DURING POS II DETECTION PIN ⑩ "H"

RECORD	PIN ④
33 cm	"H"
17 cm	"L"

IC3 PIN	⑪	⑭
STOP	9.8	9.8
ARM R	0.7	8.9
ARM L	8.9	0.7

A MAIN C.B

B POSITION SENSOR PHT C.B

C LED C.B

D POWER SW C.B

E ANGLE SENSOR C.B

F PHONO MOTOR C.B

POSITION SIGNAL DIGITAL CONVERTER IC2 TC4069UBP

IC2 6/6 IC2 5/6 IC2 4/6 IC2 3/6 IC2 1/6 IC2 2/6

DISK SIZE SIGNAL DIGITAL CONVERTER

LINEAR MOTOR CONTROL

(LINEAR MOTOR) M3

PHONO MOTOR STOP DURING SHORTING

IC 3 M54547

ANGLE SENSOR Adj.

Q106 2SC1815(Y)

Q107 2SC2001(K) SYNCRATE

UP MODE	6 ± 1 (V)
DOWN MODE	1.3 ± 0.1 (V)

REC SYNC

P H M M1 (PHONO MOTOR)

IC 1 TLCS43 CONTROLLER

REPEAT

UP/DOWN MOTOR CONTROL

IC4 BA6208

M2 (UP/DOWN MOTOR)

IC4 PIN	⑦	⑧
STOP	0	0
ARM UP	0	9.5
ARM DOWN	9.5	0

CARTRIDGE
RED
GREEN
WHITE
BLUE

EARTH
R-CH (P2)
L-CH (P1)
OUT PUT

MUTING

START/CUT
LEFT
RIGHT
UP/DOWN
REPEAT
SPEED

SW101 START/CUT SWITCH
SW102 RIGHT SWITCH
SW103 LEFT SWITCH
SW104 UP/DOWN SWITCH
SW105 REPEAT SWITCH
SW106 SPEED SELECTOR SWITCH
SW107 POWER SWITCH
SW108 UP SENSOR SWITCH
SW109 DOWN SENSOR SWITCH
SW110 VOLTAGE SELECTOR SWITCH

SW106 KEY MATRIX

SIZE SENSOR LED

POSITION SENSOR LED

VOLTAGE CONST Q101 2SD1509

VOLTAGE CONST Q102 2SD471

Q103 2SC1846 (K)

Q104 2SA1015(O)

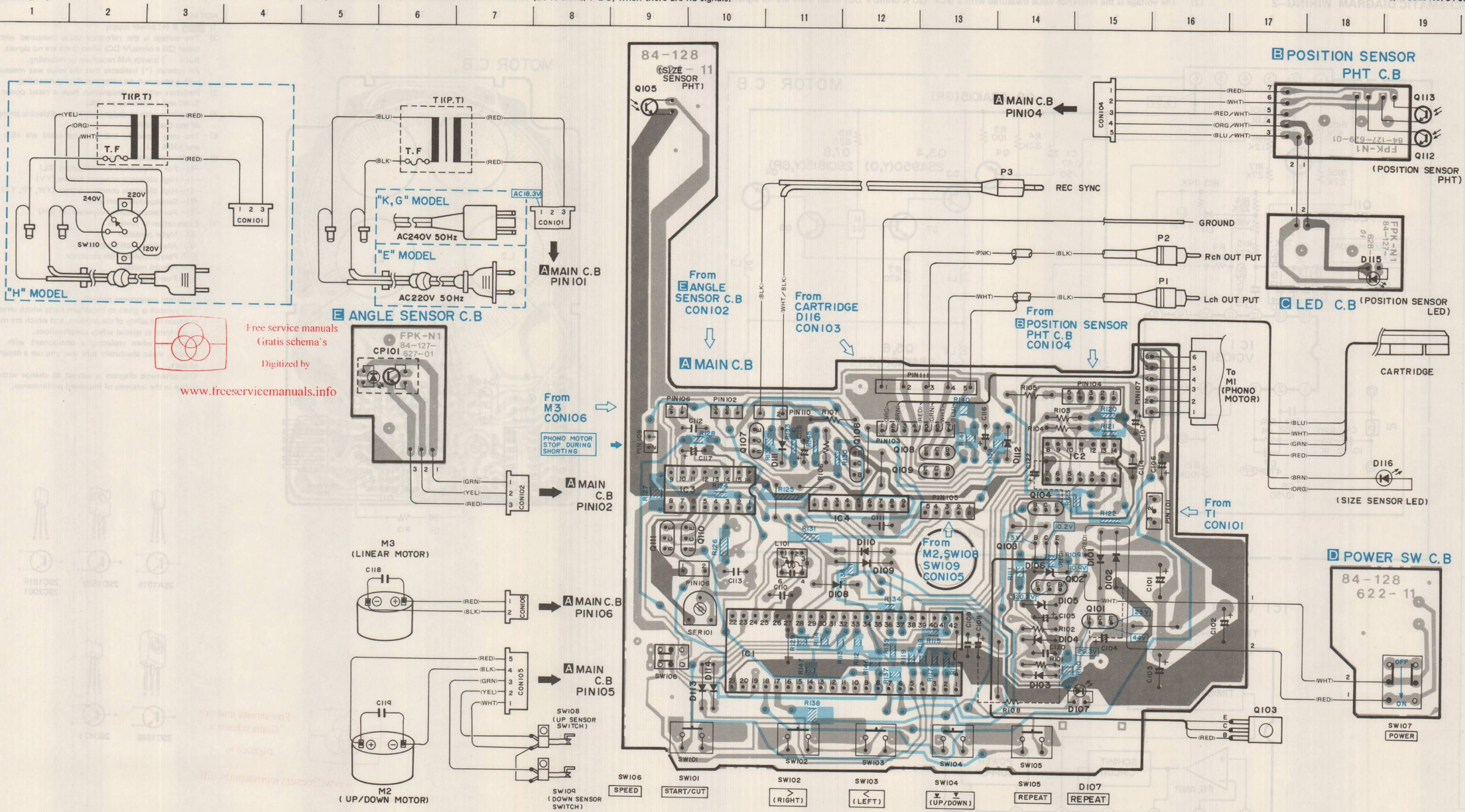
"H" Model

"E,K,G" Model

AC CORD

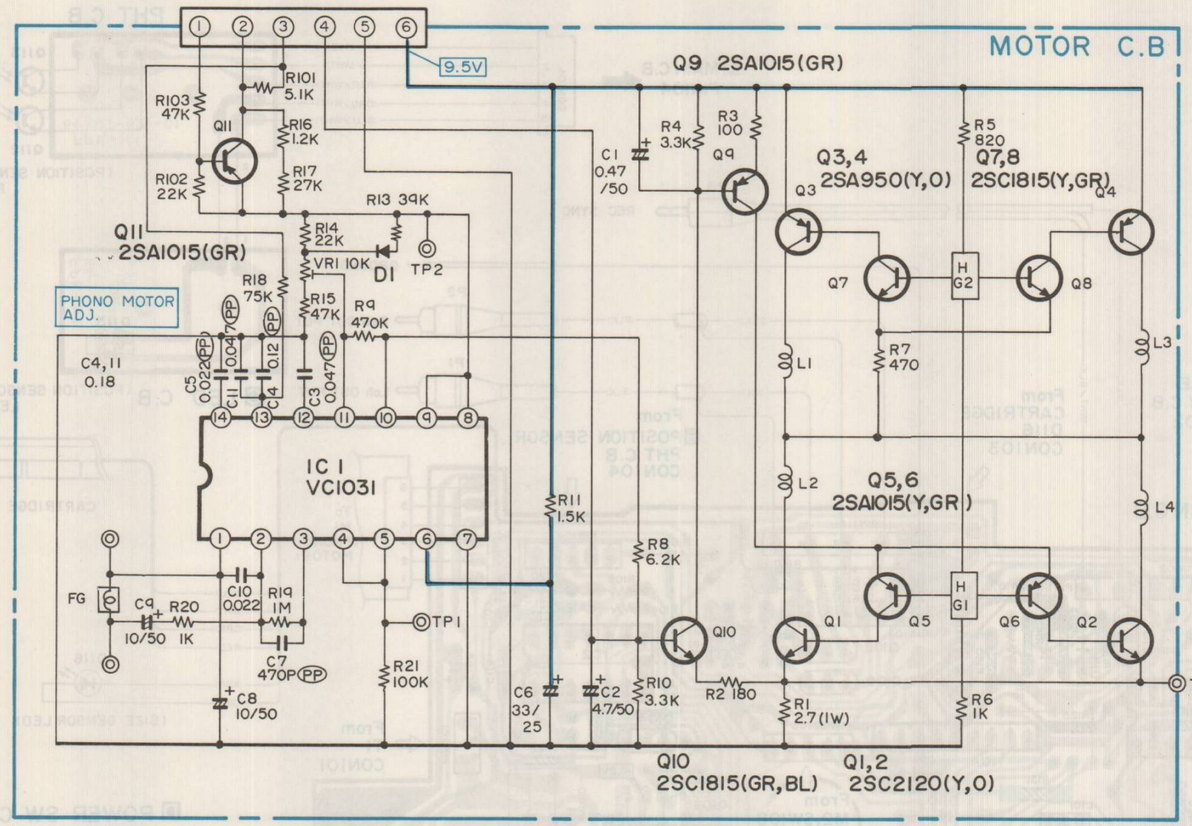
NOTES (1) Earth pattern Printed resistor pattern Others pattern
(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.

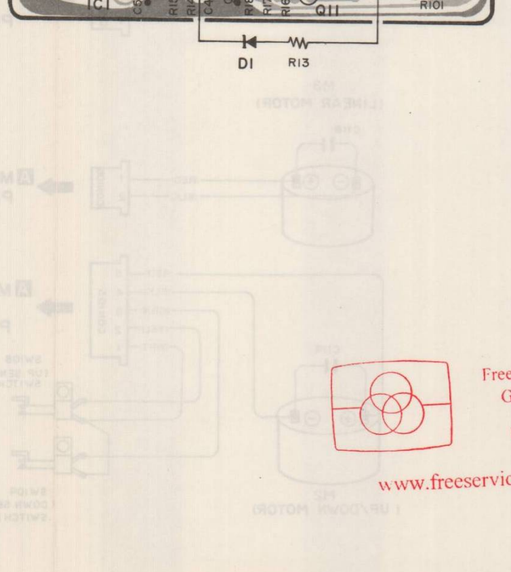
WIRING—1



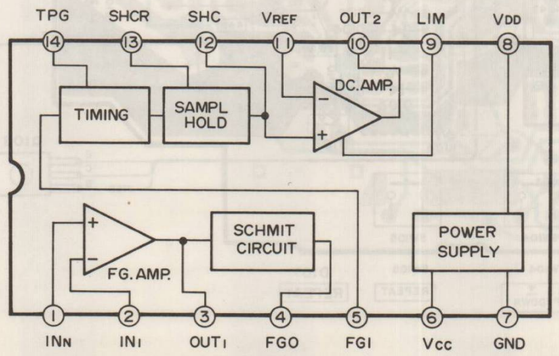
SCHEMATIC DIAGRAM WIRING–2

NOTES (1) Earth pattern Others pattern
(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.



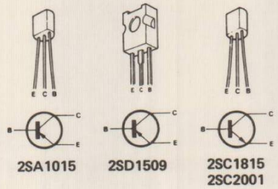


IC1 VC1031



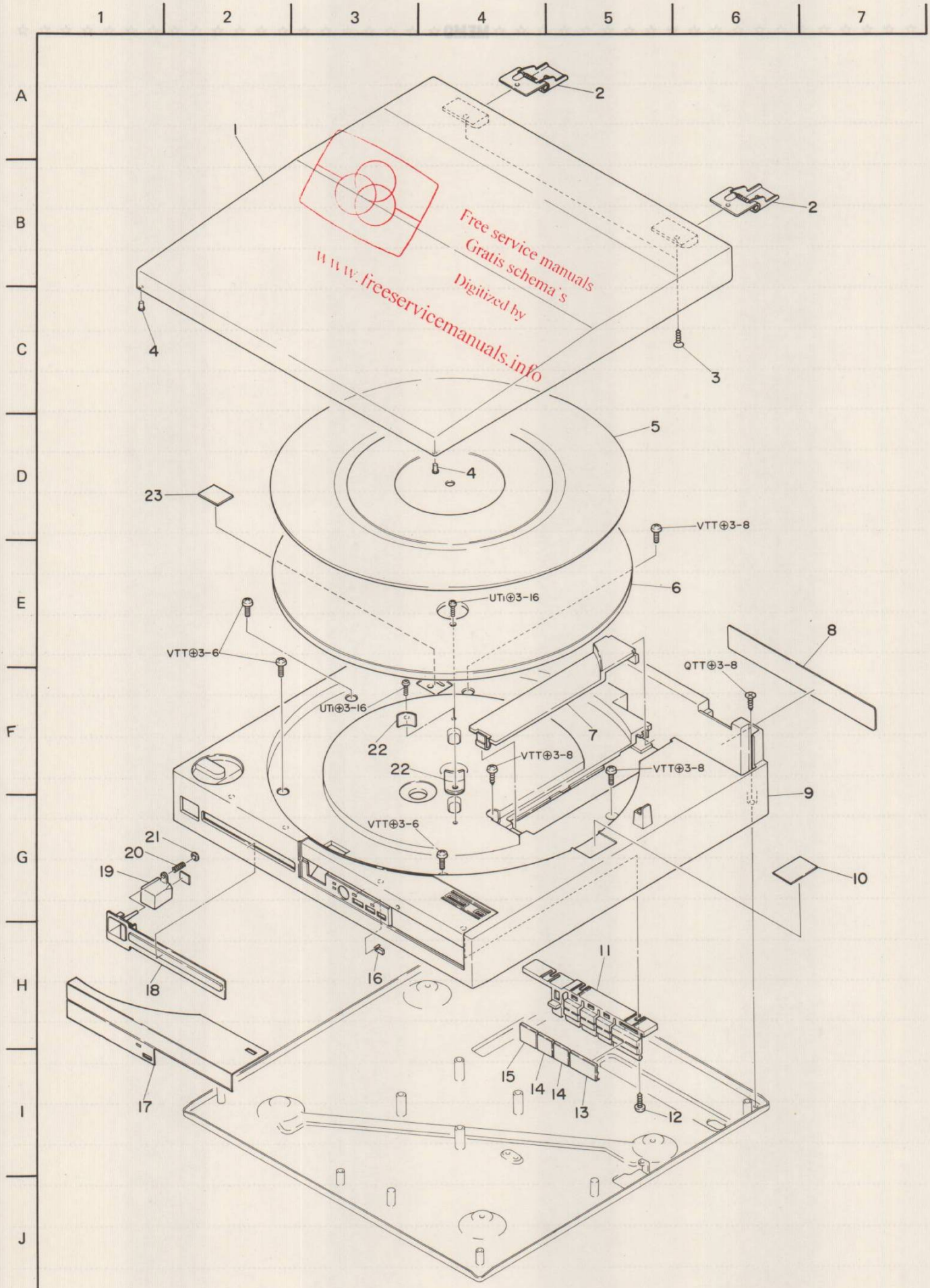
NOTES:
1) B (+) power supply
2) The voltage is the reference value measured with a tester (20 k-ohms/V DC) when there are no signals. But ( ) is with AM reception or recording. An asterisk (*) indicates that the value was measured with a vacuum-tube voltmeter during recording.
3) Resistors with no designation have a rated power of 1/4W and a tolerance of ±5%.
4) Capacitors with no designation have a dielectric strength of less than 50WV.
5) The only capacitor tolerance indicated are ±5% (J) and ±10% (K).
6) Ceramic capacitor symbols:
   - For temperature compensation (SL)
   - High dielectric constant system (YY)
   - High dielectric constant system (YW, YP, YZ)
   - Semiconductor ceramic
   - For temperature compensation (SH)
7) Explanation of symbols
   - (M) Mylar capacitor
   - (A) Aluminum solid capacitor
   - (PP) Polypropylene film capacitor
   - Printed resistor
   - Fuse resistor

⚠ Safety component symbol
This symbol is given to important parts which serve to maintain the safety of the product, and which are made to conform to special safety specifications.
Therefore, when replacing a component with this symbol, make absolutely sure that you use a designated part.
This schematic diagram is subject to change without notice in the interests of improved performance.



☆ **MEMO** ☆

EXPLODED VIEW-I



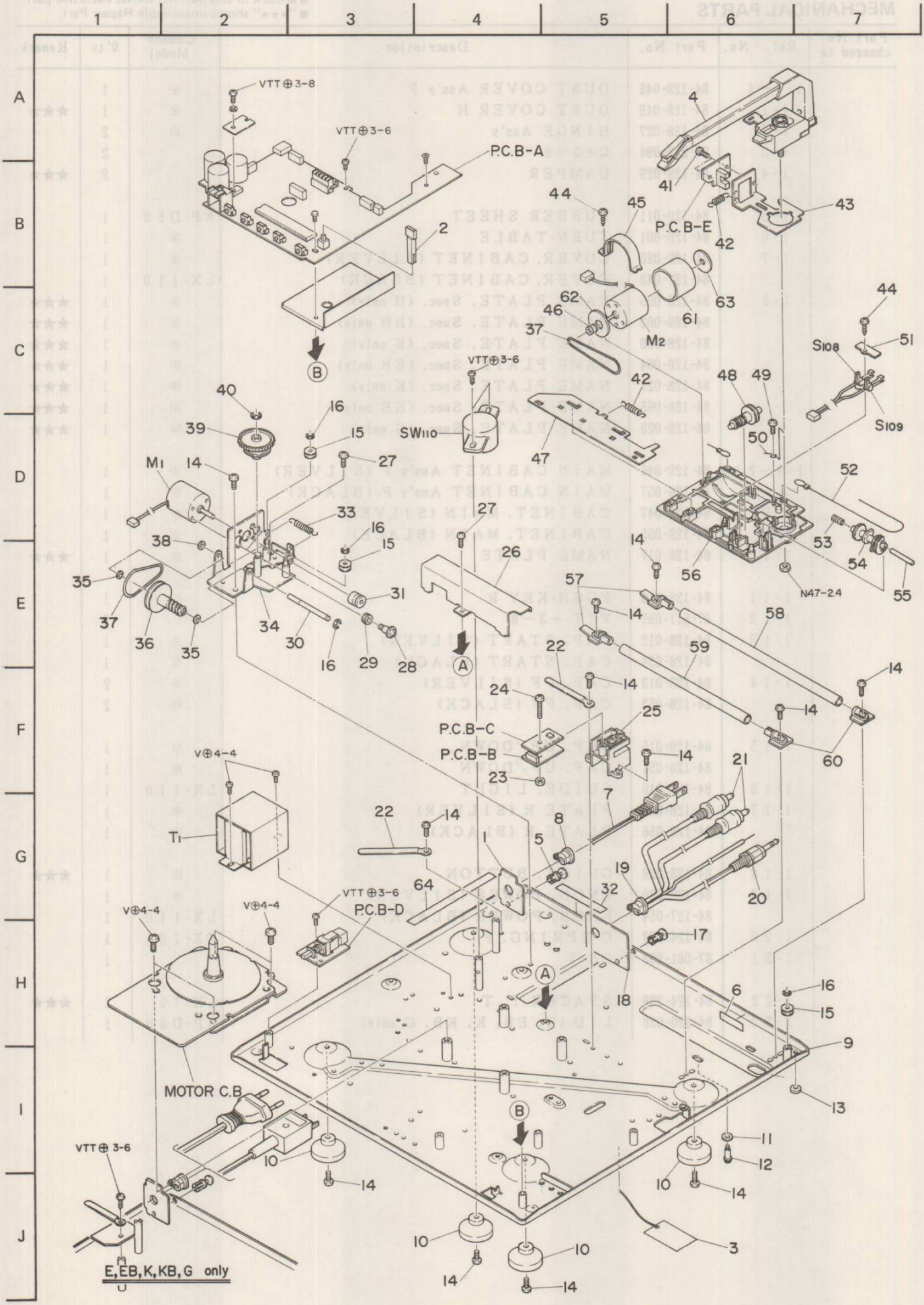
PARTS LIST

MECHANICAL PARTS

■ ※mark in this part list shows exclusive part.
■ "★★★" shows unavailable Repair Part.

Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty	Remark
	1-1～4	84-128-048	DUST COVER Ass'y F	※	1	
	1-1	84-128-049	DUST COVER H	※	1	★★★
	1-2	84-128-027	HINGE Ass'y	※	2	
	1-3	87-233-094	Q+3－6		2	
	1-4	84-128-029	DAMPER		2	★★★
	1-5	84-120-011	RUBBER SHEET	AP-D60	1	
	1-6	84-128-001	TURN-TABLE	※	1	
	1-7	84-128-026	COVER, CABINET (SILVER)	※	1	
		84-127-043	COVER, CABINET (BLACK)	LX-110	1	
	1-8	84-128-025	NAME PLATE, Spec. (H only)	※	1	★★★
		84-128-063	NAME PLATE, Spec. (HB only)	※	1	★★★
		84-128-020	NAME PLATE, Spec. (E only)	※	1	★★★
		84-128-064	NAME PLATE, Spec. (EB only)	※	1	★★★
		84-128-021	NAME PLATE, Spec. (K only)	※	1	★★★
		84-128-065	NAME PLATE, Spec. (KB only)	※	1	★★★
		84-128-023	NAME PLATE, Spec. (G only)	※	1	★★★
	1-9～21	84-128-046	MAIN CABINET Ass'y F (SILVER)	※	1	
		84-128-057	MAIN CABINET Ass'y F (BLACK)	※	1	
	1-9	84-128-047	CABINET, MAIN (SILVER)	※	1	
		84-128-055	CABINET, MAIN (BLACK)	※	1	
	1-10	84-128-017	NAME PLATE	※	1	★★★
	1-11	84-128-016	PUSH-KEY R	※	1	
	1-12	87-511-095	VFT, +3－8		2	
	1-13	84-128-012	CAP, START (SILVER)	※	1	
		84-128-054	CAP, START (BLACK)	※	1	
	1-14	84-128-013	CAP, FF (SILVER)	※	2	
		84-128-053	CAP, FF (BLACK)	※	2	
	1-15	84-128-015	CAP, UP/DOWN	※	1	
		84-128-051	CAP, UP/DOWN	※	1	
	1-16	84-123-016	GUIDE, LIGHT	LX-110	1	
	1-17	84-128-008	PLATE R (SILVER)	※	1	
		84-128-056	PLATE R (BLACK)	※	1	
	1-18	84-128-028	GUIDE, BUTTON	※	1	★★★
	1-19	84-128-030	KNOB, POWER (SILVER)	※	1	
		84-127-054	KNOB, POWER (BLACK)	LX-110	1	
	1-20	84-124-227	C-SPRING, P	LX-70	1	
	1-21	87-081-903	CS-2		1	
	1-22	84-124-239	SPACER T, T	LX-70	2	★★★
	1-23	84-120-038	LID (E, EB, K, KB, G only)	AP-D60	1	

EXPLODED VIEW-2



Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty	Remark
	2-1	84-123-027	JACK PLATE B (H, HB only)	LX-100	1	★★★
		84-123-061	JACK PLATE EK (E, EB, K, KB, G only)	LX-100	1	★★★
	2-2	84-124-013	KNOB, SPEED	LX-70	1	
	2-3	84-124-952	TAG, CAUTION	LX-70	1	★★★
	2-4	84-128-101	TONE ARM Ass'y	※	1	
	2-5	87-084-063	NYLON RIVET 3-5.5 (H, HB only)		1	
		87-084-078	NYLON RIVET 3-4.5 (E, EB, K, , KB, G only)		1	
	2-6	84-127-215	HIMELON 15-8	LX-110	1	★★★
	2-7	87-034-956	AC POWER CORD (H only)		1	
		87-034-958	AC POWER CORD (HB only)		1	
		87-034-877	AC POWER CORD (E, EB only)		1	
		87-034-711	AC POWER CORD (K, KB, G only)		1	
	2-8	87-085-165	CORD BUSHING (H, HB only)		1	
		87-085-185	CORD BUSHING (E, EB, K, KB, G only)		1	
	2-9～64	84-128-210	BOTTOM CABINET Ass'y F (H, HB only)	※	1	
		84-128-211	BOTTOM CABINET Ass'y F (E, EB, K, KB, G only)	※	1	
	2-9	84-128-208	CABINET, BOTTOM (H, HB only)	※	1	★★★
		84-128-209	CABINET, BOTTOM (E, EB, K, KB, G only)	※	1	★★★
	2-10	84-120-025	RUBBER FOOT Ass'y	AP-D60	4	
	2-11	84-123-060	RUBBER CUSHION 4-10-1.5	LX-100	1	★★★
	2-12	84-124-238	SCREW	LX-70	1	
	2-13	84-124-246	SHEET 5-2-1.9	LX-70	1	★★★
	2-14	87-081-511	VTT+3-6		10	
	2-15	87-071-013	PULLEY A		3	
	2-16	87-441-005	STE-2		4	
	2-17	87-084-063	NYLON RIVET 3.5-5.5		1	
	2-18	84-124-045	JACK PLATE A	LX-70	1	★★★
	2-19	87-085-101	CORD BUSHING		1	
	2-20	84-199-606	PIN CORD		1	
	2-21	84-124-665	SYNCRATE CORD	LX-70	1	
	2-22	87-038-039	WIRE BINDER		2	★★★
	2-23	87-391-717	N3-2.4		1	
	2-24	87-261-100	V+3-16		1	
	2-25	84-124-211	HOLDER A, MASK	LX-70	1	
	2-26	84-124-225	LEAD HOLDER C	LX-70	1	★★★
	2-27	87-067-020	VTT+3-4		3	
	2-28	87-081-483	MOTOR SCREW, M2.6		2	
	2-29	87-087-029	RUBBER CUSHION		2	★★★
	2-30	84-123-206	SHAFT A, WORM	LX-100	1	
	2-31	84-127-205	MOTOR PULLEY L	LX-110	1	
	2-32	84-127-213	HIMELON 50-8	LX-110	1	★★★
	2-33	84-123-236	E-SPRING, SOLENOID	LX-100	1	
	2-34	84-124-231	MOTOR HOLDER B Ass'y	LX-70	1	★★★
	2-35	84-123-309	W3.2-8	LX-100	2	

Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty	Remark
	2-36	84-123-205	GEAR B, WORM	LX-100	1	
	2-37	82-541-268	RUBBER BELT, COUNTER		2	
	2-38	87-067-039	PW2.3-8-0.25		1	
	2-39	84-123-204	GEAR A, PULLEY	LX-100	1	
	2-40	87-441-011	STE-4		1	
	2-41	87-081-501	VTT+2.6-4		2	
	2-42	84-123-238	E-SPRING, SENSOR	LX-100	2	
	2-43	84-124-209	LEVER A, SENSOR	LX-70	1	
	2-44	87-351-094	VT$_1$+3-6		2	
	2-45	84-127-201	COVER, MOTOR	LX-110	1	★★★
	2-46	84-127-206	MOTOR PULLEY S	LX-110	1	
	2-47	84-124-210	PLATE A, MASK	LX-70	1	★★★
	2-48	84-124-204	GEAR A, WORM	LX-70	1	
	2-49	87-261-071	V+2.6-4		1	
	2-50	84-124-242	T-SPRING, WIRE	LX-70	1	
	2-51	84-124-222	SWITCH HOLDER A	LX-70	1	★★★
	2-52	84-124-223	WIRE ROPE	LX-70	1	★★★
	2-53	84-124-228	C-SPRING, CAM A	LX-70	1	
	2-54	84-124-207	UP-DOWN CAM A	LX-70	1	★★★
	2-55	84-124-219	SHAFT A, UP/DOWN	LX-70	1	★★★
	2-56	84-124-201	MECHANISM CHASSIS Ass'y	LX-70	1	
	2-57	84-124-205	HOLDER A, PIPE	LX-70	2	★★★
	2-58	84-124-214	PIPE A	LX-70	1	★★★
	2-59	84-124-215	PIPE B	LX-70	1	
	2-60	84-124-206	HOLDER B, PIPE	LX-70	1	★★★
	2-61	84-127-209	PLATE A, MOTOR	LX-110	1	★★★
	2-62	84-127-210	PLATE B, MOTOR	LX-110	1	★★★
	2-63	84-127-211	PLATE C, MOTOR	LX-110	1	★★★
	2-64	84-127-212	HIMELON 100-8	LX-110	1	★★★

Part No.	Description
87-261-167-21	V+4-4
87-341-100-21	UT+3-16
87-081-511-01	VTT+3-6
87-081-512-01	VTT+3-8
87-089-532-01	QTT+3-8
87-067-156-01	N4.7-2.4

■ACCESSORIES/PACKAGE LIST

Part No. changed to	Ref. No.	Part No.	Description	Common Model	Q'ty	Remark
	1	84-128-852	PRINTED INDIV. . PACKING	※	1	★★★
	2	84-124-857	SHEET. CORRUGATED BOARD	LX-70	1	★★★
	3	84-124-858	SHEET. FOAMED MAT	LX-70	1	★★★
	4	84-124-861	SHEET. FOAMED MAT	LX-70	1	★★★
	5	84-127-852	CUSHION F. PRINTED INDIV.	LX-110	1	★★★
	6	84-127-853	CUSHION R. PRINTED INDIV.	LX-110	1	★★★
	7	84-128-855	PAD. CORRUGATED BOARD	※	1	★★★
	8	87-051-171	POLY-VINYL SACK		1	★★★
	9	84-128-904	INSTRUCTIONS BOOKLET	※	1	★★★
	10	87-051-171	POLY-VINYL SACK(for instruction)		1	★★★
	11	87-056-009	DISTRIBUTORS LIST		1	★★★
	12	87-056-059	GUARANTEE CARD(G only)		1	★★★
	13	87-032-845	SIEMENS PLUG(H. HB only)		1	
	14	84-190-965	45 ADAPTER(H. E. K. G only)	AP-2200	1	
	15	84-190-978	45 ADAPTER S(HB. EB. KB only)	AP-2200	1	

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