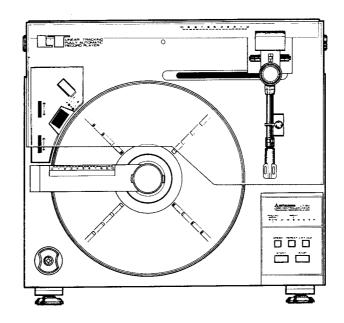


# SERVICE MANUAL

# LINEAR TRACKING TURNTABLE

# MODEL LT-5V

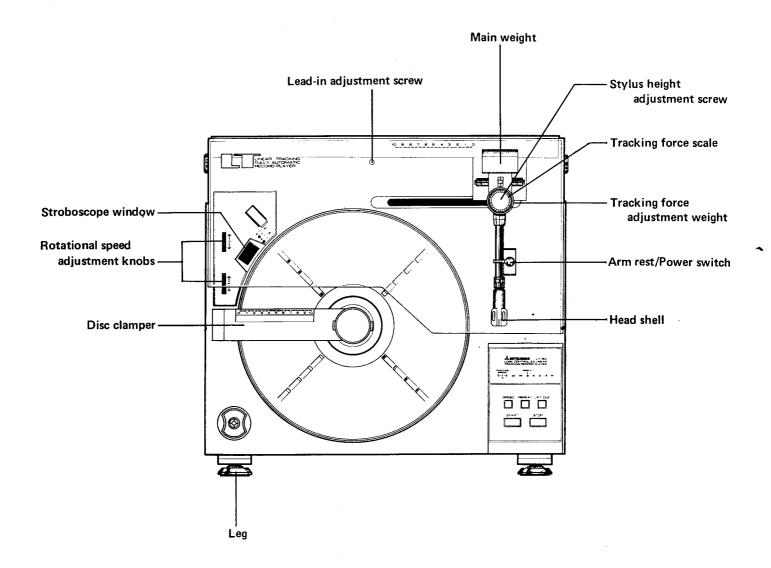


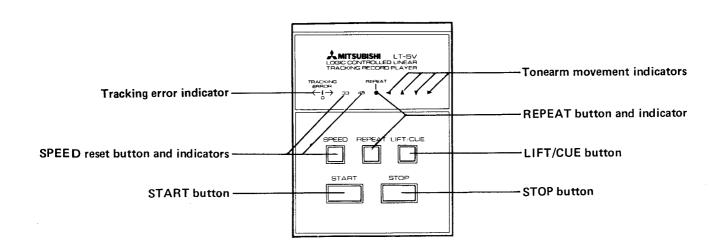
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# NAMES OF PARTS





#### **SPECIFICATIONS**

# 1. PHONO MOTOR SECTION

Drive system

Platter speed

Belt drive

Motor

PLL DC servo motor

Platter

30.4 cm (12")

Size Weight

1.3 kg (2.9 lb)

Material

Aluminum diecast

Selection

33-1/3, 45 r.p.m.

Adjustment

Automatic ±3.0 %

Wow and Flutter

±0.045 % (Wrms)

Signal to noise ratio

65 dB (IEC-B)

76 dB (DIN-B)

#### 2. TONEARM SECTION

Type

Straight universal type,

static balanced

Overall length

22.3 cm (8-3/4") 18.0 cm (7-1/12")

Effective length Overhang

14 mm (9/16")

Tracking error

±0.1°

Head shell

GFRP (6.2 g)

#### 3. CARTRIDGE SECTION

Model

AT-12E (Audio Technica)

Type

Dual moving magnet

Stylus 0.4 x 0.7 mil elliptical

diamond

Recommended traking force Output level

1.5 g

(1kHz, 5 cm/sec)

3.5 mV

Frequency responce

15  $\sim$  26.000 Hz

Channel separation (1 kHz)

23 dB

### 4. GENERAL

Power consumption

14 W

Dimensions (W x H x D)

466 x 430 x 200 mm

(18-3/8 x 16-15/16 x 7-7/8")

Weight

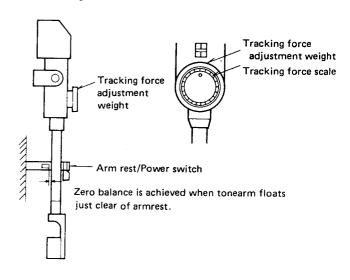
12.5 kg (27.5 lb)

Design and specifications are subject to change without notice for improvement.

#### **GENERAL ADJUSTMENTS**

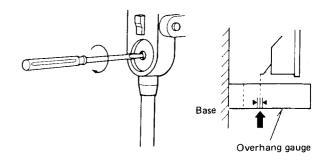
# 1. Tracking Force Adjustment

- (1) Attach the cartridge (mounted on head shell) to the tonearm.
- (2) Adjust the tonearm for zero balance by rotating the tracking force adjustment weight. Zero balance is achieved when the tonearm stays just clear of the armrest and remains suspended vertically.
- (3) Rotate the tracking force scale so that the 0 mark points upwards. While turning the dial, hold the tracking force adjustment weight so as not to disturb its position.
- (4) Rotate the tracking force adjustment weight until the indication on the scale matches the tracking force recommended for the cartridge in use. By turning the weight counter-clockwise, it is pushed out and the tracking force increases.



## 2. Stylus Height Adjustment

- (1) Remove the main weight by pulling it upwards.
- (2) Remove the tracking force adjustment weight by turning it counter-clockwise.
- (3) Turn the power ON and move the tonearm to the UP position with the LIFT/CUE button.
- (4) Hold the overhang gauge vertically to the turntable base and adjust the stylus height. The adjustment screw is located in the opening for the tracking force adjustment weight. Turning it clockwise increases the stylus height.

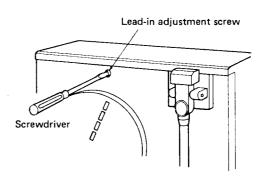


# 3. Adjustment of Lead-in Position

In case the stylus does not correctly descend in the lead-in groove of a record, perform the following adjustment.

- (1) Make sure that the turntable is positioned horizontally. Place a 30cm record on the platter and check to which side the stylus is off position.
- (2) Adjust the lead-in position gradually by turning the lead-in adjustment screw.
- (3) After having performed the adjustment for a 30cm record, repeat the same adjustment with a 17cm record.

Note: If the stylus sets down outside of the turntable, or the lead-in position is set too far inward, the automatic end-of-play shut-off may become inoperative.



#### CIRCUIT DESCRIPTION

#### 1. Start Switch ON

When the start switch S106 becomes ON, L is fed into pin 9 (START) of IC102, and because pin 21 (↑) goes L, Q120 turns OFF, Q121 becomes ON, and Q122 turns OFF. Because pin 22 (↓) is H, Q117 becomes ON,Q118 OFF, and Q119 ON. This starts the vertical motion motor and the tonearm is lifted up. Also, as Q120 goes OFF, H is fed to the base of Q204, causing Q203 to turn ON and LA207 (↑) to illuminate. (Signal flow shown by blue → on schematic diagram.)

#### 2. Tonearm Elevation Stop

As the CAM/UP switch S102 is switched to NO (Normally open), L is applied to pin 4 (UP) of IC102, the vertical motion motor stops and the elevation of the tonearm ceases.

### 3. Horizontal Tonearm Movement (Inwards)

As pin 23 ( $\leftarrow$ ) of IC102 becomes L, Q109 turns OFF, Q111 ON, and Q112 OFF. Because 22 ( $\rightarrow$ ) is H, Q113 becomes ON, Q115 OFF, and Q116 ON, causing the horizontal motion motor to operate and move the tonearm inwards. Also, as Q109 turns OFF, Q201 turns ON and LA204 ( $\leftarrow$ ) illuminates. (Signal flow shown by blue  $\triangleright$  on schematic diagram.)

#### 4. Record Size Detection (30cm Record)

When a 30cm record is placed on the turntable, the size detector Q101 receives no light and turns OFF. Thus Q103 goes OFF, and H is fed to pin 12 and pin 13 of IC101, causing L to be outputed from pin 11. L is placed on pin 15 (SIZE) of IC102, (Shown by blue ▶ on schematic diagram.) Because Q105 turns ON, the position light source LA101 goes on and the position light receiving photo diode D101 receives light. Thus H is imposed on the base of Q107 and it turns ON.

#### 5. Tonearm Lowering

As pin 1 (S-LEAD-IN) of IC102 changes from H→L, pin 21 (↓) changes from H→L, and Q117 turns OFF, Q118 ON and Q119 OFF. At that time, because pin 20 (↑) is H, Q120 is ON, Q121 OFF and Q122 ON. This causes the horizontal movement of the tonearm to stop and the tonearm to start lowering. Also, because Q117 is OFF, Q203 turns ON and LA206 (↓) illuminates. (Shown by red → on schematic diagram.)

#### 6. Tonearm Lowering Stop

First the CAM/UP switch S102 switches from NO to NC (Normally closed) and pin 4 (UP) of IC102 becomes H, then the CAM/DOWN switch S103 switches from NC to NO and the vertical motion motor stops. The tonearm now rests on the record.

#### 7. Operation of Tracking Servo Circuit

When S102 and S103 are switched as described in Step 6, pins 1 and 2 of IC102 become H, causing pin 3 to become L. and H is outputed at pin 4. Thus Q137 turns ON, causing the relay RL102 to switch to tracking servo. However, as the stylus of the cartridge follows the record groove, the tonearm is tilted inwards. This tilt causes the light interruption board to shut off the light from LA104, reducing the voltage from D107 and causing pin 2 of IC 103 to become L and pin 1 to become H. Thus pin 7 of IC103 becomes H, Q129 and Q130 go OFF, Q131 turns ON, and Q132 OFF. On the other hand, the light from LA105 is increased and the voltage from D108 increases accordingly, imposing H on pin 2 of IC104 and causing pin 1 to become L. Then, because pin 7 of IC104 goes L, Q133 and Q134 turn ON, Q135 turns OFF, and Q136 ON. When Q132 turned OFF, H was inputed into pin 3 of IC201, causing pin 1 to become H. Q205 to turn ON and LA201 (←) to illuminate. In this way, the voltage difference between D107 and D108 is amplified, operating the horizontal motion motor and moving the tonearm inwards. When the tonearm becomes exactly vertical again, the voltages from D107 and D108 are equal and the motor stops. When the tonearm is again tilted by the movement of the stylus, the above process is repeated, and so forth until the tonearm has reached the end groove of the record. (Shown by blue  $\Box$ ) on schematic diagram.)

#### 8. End Detection (Tonearm Lift)

When the tonearm moves to the end groove of a record, D 103 receives the END light and produces a voltage, causing Q108 to turn ON and L to be fed to pin 2  $\overline{(END)}$  of IC102. First, pin 20 (†) of IC102 becomes H, causing Q120 to turn OFF. Q121 to turn ON, and Q122 to turn OFF. Because pin 21 ( $\downarrow$ ) of IC 102 is H at this time, it causes Q117 to turn ON, Q118 to turn OFF, and Q119 to turn ON. Thereby, the vertical motion motor starts to operate and the tonearm is lifted up. (Indicator lamps are the same as in Step 1. Signal flow shown by red  $\triangleright$  on schematic diagram.)

#### 9. Tracking Servo Circuit Release

When the tonearm moves upwards and the CAM/DOWN switch S103 switches to NC, pin 2 of IC101 goes L, and because pin 1 is H, pin 3 becomes H and pin 4 becomes L.

Thus Q137 turns OFF and the solenoid RL 102 switches from tracking servo to normal.

#### 10. Tonearm Elevation Stop

Same as in Step 2.

#### 11. Horizontal Tonearm Movement (Outwards)

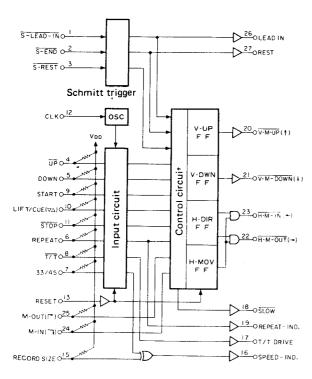
When the toneam reaches the upper limit pin 22 (→) of IC102 goes L, causing Q113 to go OFF, and Q116 to go OFF. At this time, because pin 23 (←) is H, Q109 becomes ON, Q111 OFF, and Q112 ON. Also, because Q202 is ON when Q113 is OFF, LA205 (→) illuminates. Accordingly, the horizontal motion motor operates and the tonearm is moved outwards. (Signal flow shown by red ▶ on schematic diagram.)

#### 12. Tonearm Movement Stop

When the tonearm moves horizontally and reaches the armrest position, the REST switch S101 switches from NC to NO, and L is fed into pin 3 of IC102. As the horizontal motion motor stops, the vertical motion motor starts operating, the CAM/UP switch S102 changes from NO to NC, and the tonearm is lowered. When it reaches the lower limit, the CAM/DOWN switch S103 switches to NO, and the tonearm stops on the arm rest. (Indicator lamps are the same as in Step 5. Signal flow shown by red ▷ on schematic diagram.)

### **INFORMATION ON LOGIC I.C. (IC102)**

#### 1. Circuit Construction



#### 2. Pin and Function

- 1 (S-LEAD-IN): L when tonearm is on a record, otherwise H.
- 2 (S-END): Becomes L when tonearm is moving inwards on a record and reaches the end groove, otherwise H.
- 3 (S-REST): L when at armrest, otherwise H.
- 4 (UP): L when tonearm is being lifted or moving horizontally, otherwise H.
- 5 (DOWN): L when tonearm is at armrest or on a record, otherwise H.
- 6 (REPEAT): Ordinarily H. When L is fed into this pin, the tonearm continues the repeat operation. To release, feed in L once more or make 11 (STOP) L.
- 7 (33/45): Used when selecting platter speed manually. Making this pin L causes speed to change from 33-1/3 rpm to 45 rpm or vice versa.
- 9 (START), 10 (LIFT/CUE), 11 (STOP): When START becomes L, the tonearm moves inwards; when STOP becomes L, the tonearm moves outwards. When LIFT/CUE becomes L, the tonearm is lifted or lowered. Note that, while the tonearm is being lifted, making this pin L produces no change, but if L is fed in during the lowering process, it changes back to upwards.



- **12 (CLK):** By connecting an external resistor/condensor combination to the input, a reference clock pulse is generated internally.
- 13 (RESET): A resistor/condensor combination is connected to the input. Immediately after switching on the power, the RESET input becomes L, blocking automatic movement of the tonearm.
- 14 (Vss): Connects to ground.
- 15 (RECORD SIZE): L indicates 30cm LP, H indicates 17cm EP.
- 16 (SPEED-IND): L indicates 33-1/3 rpm, H indicates 45 rpm. Can be changed freely by making 7 (33/45) L.
- 17 (T/T-DRIVE): When 9 (START) becomes L, this pin becomes H and the platter rotates. When record play is finished and the returns to arm rest position, this pin becomes L and platter rotation stops.
- 18 (SLOW): To move the tonearm horizontally while on a record, this output becomes L and the horizontal motion speed is low. At H level, the motion speed is high.

- 19 (REPEAT-IND): When 6 (REPEAT) is L in the repeat mode, this pin becomes L.
- 20 (V.M-UP), 21 (V.M-DOWN), 22 (H.M-OUT), 23 (H.M-IN): When the tonearm is at rest position or on a record and thus 5 (DOWN) is L, at first 20 (V.M-UP) becomes L and the tonearm moves up, causing 5 (DOWN) to become H. At that time 4 (UP) is L, and when the tonearm stops at the upper limit, the horizontal motion starts. When the tonearm moes inwards, 23 (H.M-IN) is L, when it moves outwards, 22 (H.M-OUT) is L. When the tonearm has moved to the pre-set horizontal position and is being lowered, 21 (V.M-DOWN) becomes L. Thus, of these 4 signals during tonearm movement, there is always one which becomes L, but never two or more simultaneously.

27 (REST): Same as output of 3 (S-REST).

28 (Vpp): Supply voltage INPUT.

#### **DISASSEMBLY INSTRUCTIONS**

#### Removal of Rear Cover

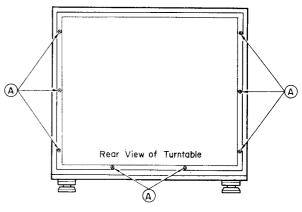
- (1) Remove the eight screws (A) as shown in the figure.
- (2) The rear cover can now be removed.

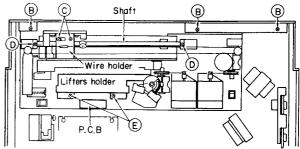
#### Removal of Turntable Platter

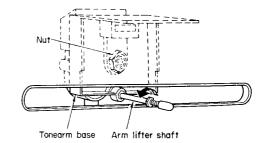
- (1) Remove the rear cover as described above.
- (2) Insert the supplied rod or a small hex wrench through the hole in the platter spindle. Using the rod as a lever turn the spindle in a clockwise direction. Remove the spindle.
- (3) While holding the platter rotate the flyweel to loosen the platter. The platter can now be pulled off.

#### Removal of Tonearm

- (1) Unscrew the three screws (B) for the ornamental metal provided on the upper side and remove the metal. When removing the metal trim use care so as not to damage.
- (2) Remove the two fixing screws (C) for the wire holder.
- (3) Losen the two fixing screws (D) for the shaft and remove the shaft.
- (4) Remove the two screws (E) for the lifter's holder.
- (5) Turn the arm lifter shaft attached to the tonearm base with a pair of pliers and remove the shaft.
- (6) Now, the tonearm, together with the tonearm base, can be lifted upward and removed.
- (7) Disconnect the output lead wires from the printed circuit board.
- (8) Remove the nut securing the tonearm.
- (9) In this condition, the tonearm can now be serviced.

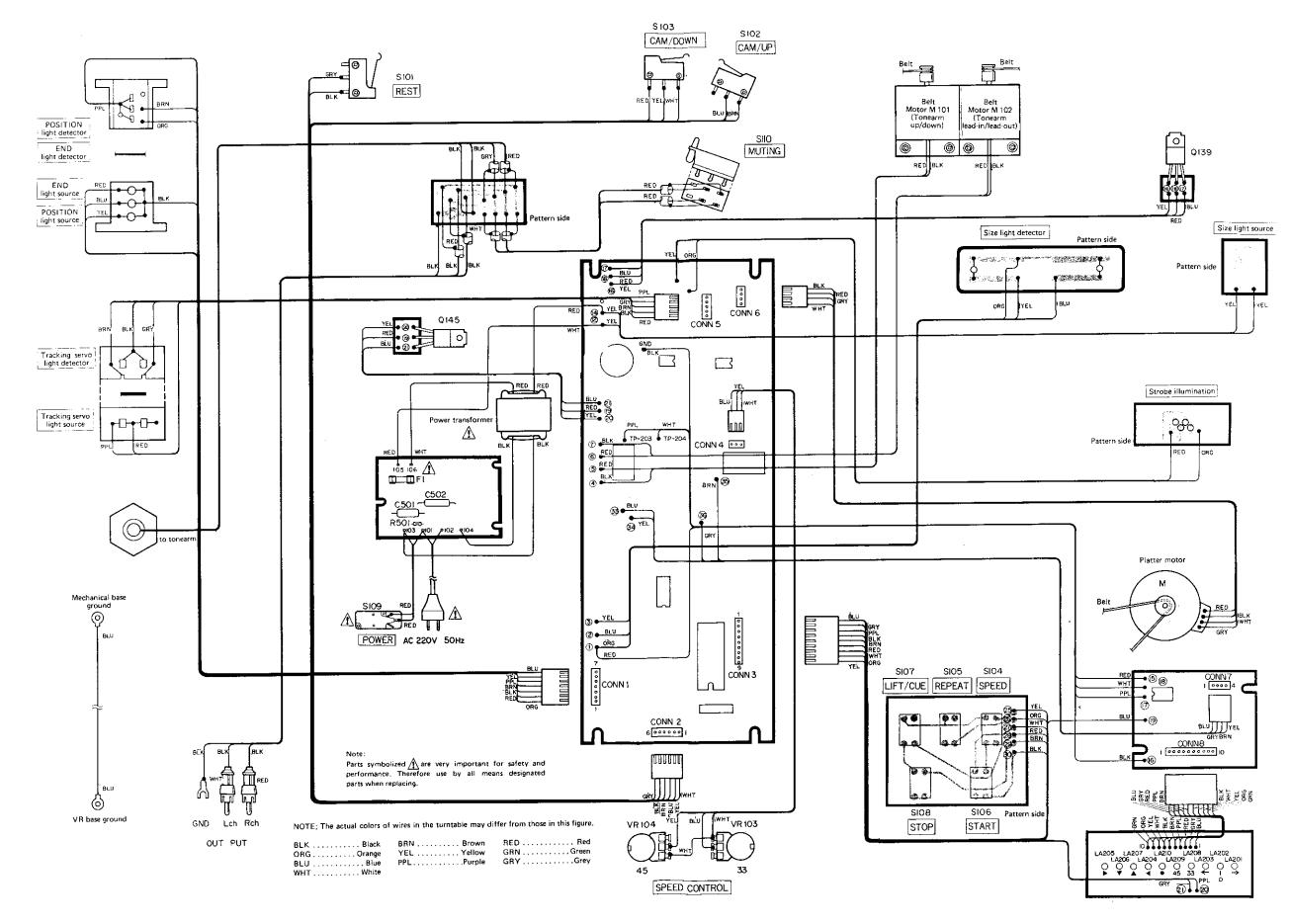




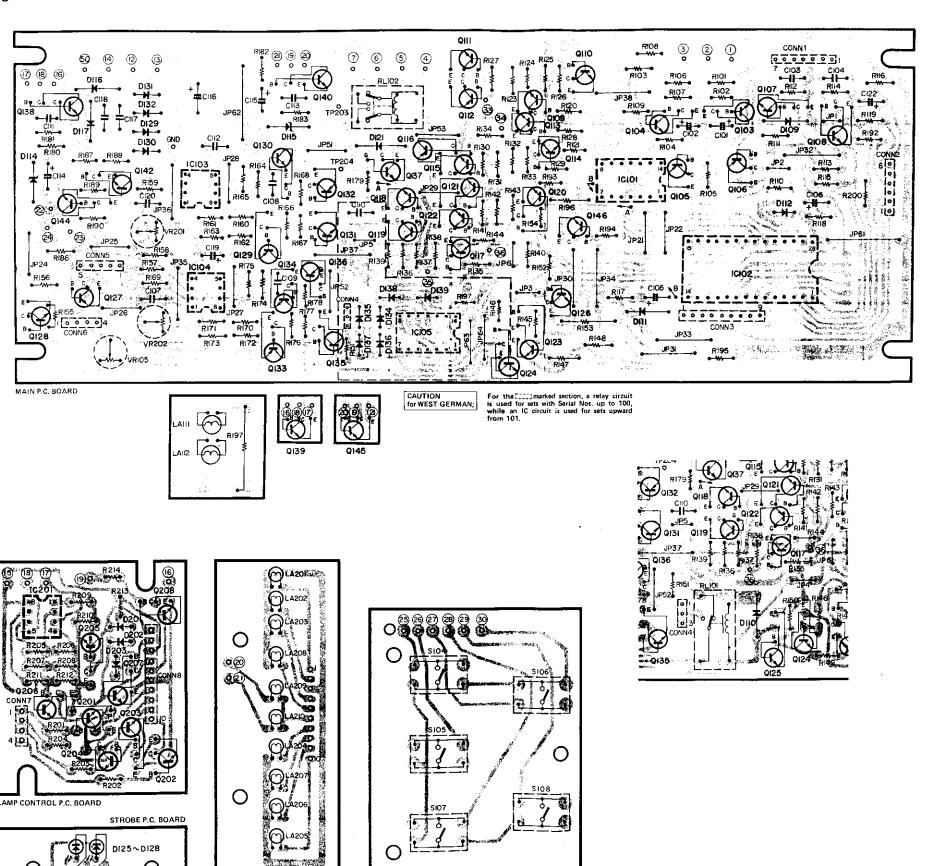


LT-5V LT-5V

#### **WIRING DIAGRAM**

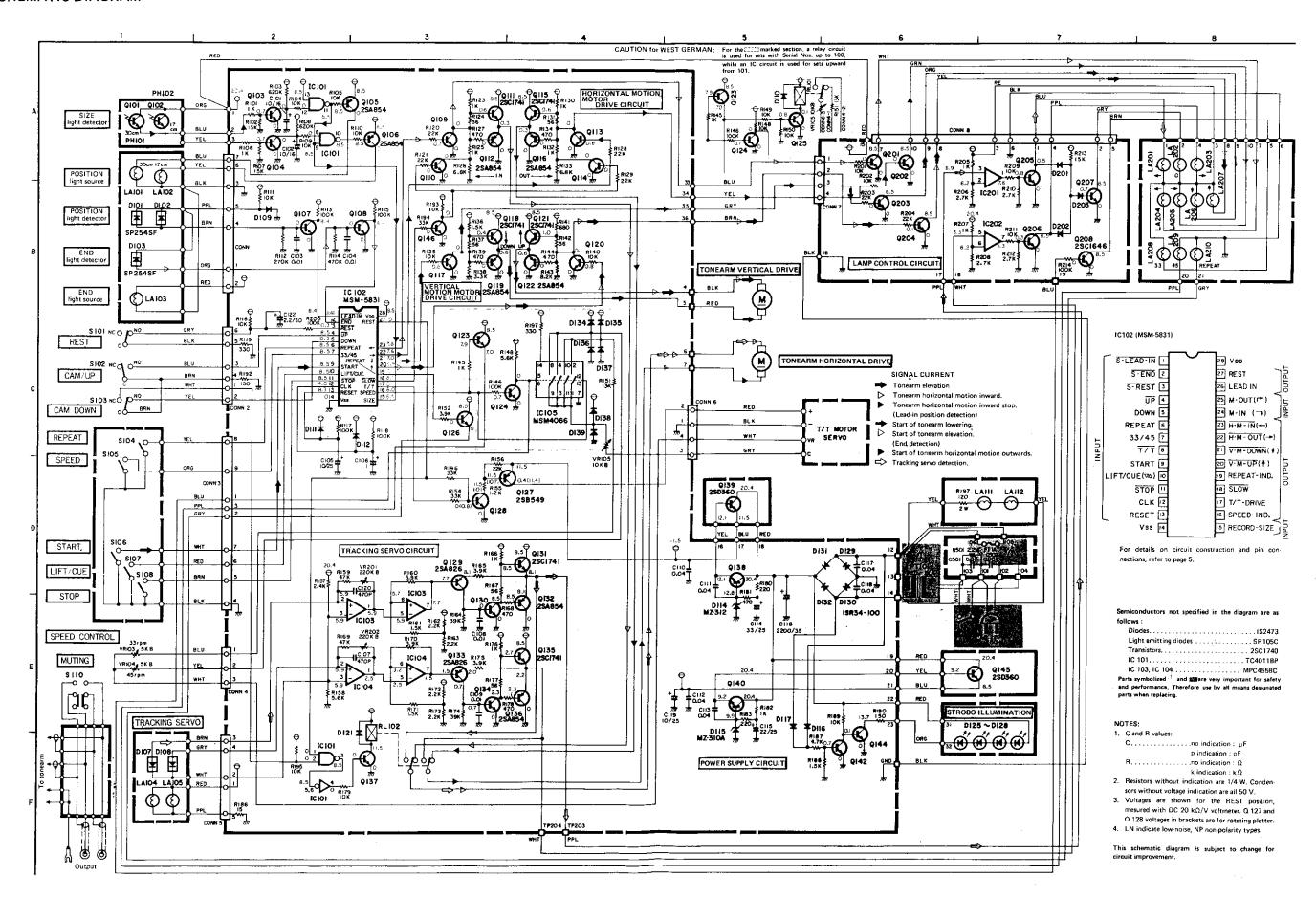


# PRINTED CIRCUIT BOARDS

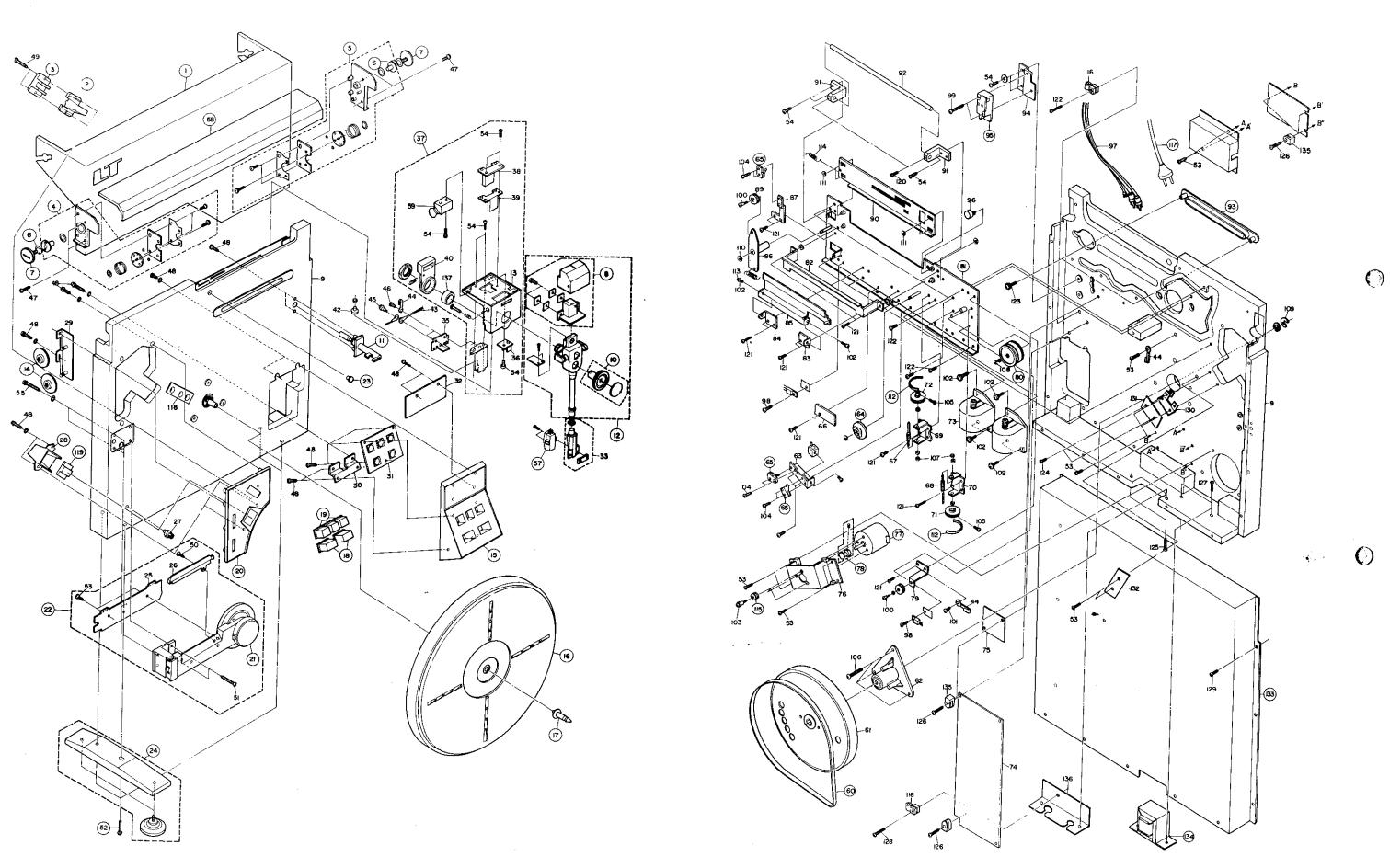


SWITCH P.C. BOARD

#### SCHEMATIC DIAGRAM



# **EXPRODED VIEWS**



# **PARTS LIST**

NOTE: And marked components on Parts list have special characteristics to keep safety performance of this unit. When replacing any of these parts, be sure to use only specified parts.

No.	Part No.	Description
1	M07445690	Dust cover
2	M07137605	Reflector
3		Holder
4	M07445772	Hinge-assy (L)
5	M07445773	Hinge-assy (R)
6	M07445747	Spacer
7	M07445777	Screw-metal
8		Weight-main
9		Base
10		Weight
11	M07445618	Arm rest-assy
12	U487B023G02	Tonearm
13	U580C047G03	Base-assy
14	U704D320H02	Knob (Speed control)
15	U703D147G02	Ornament-assy
16	U524D046G02	Platter-assy Shaft (For platter)
17	M07445602	Knob (Start, Stop)
18	U704C076H01 U704C067H04	Knob (Start, Stop) Knob (Speed, Repeat, Lift)
19	U703B035H04	Ornament
20 21	M07478720	Holder-assy
21	U541B003G04	Holder-assy
22	M07445786	Cap
23	M07478695	Leg-assy
25	10107470033	Holder
25		Holder
27	U685D189H11	Pin
28	U561C053H01	Case (For strobo)
29		Holder
30		Holder
31		PCB-assy
32		PCB-assy
33	M07478734	Head shell-assy
34		Holder
35		Holder
36		Slider
37	U580C047G03	Base-assy (For tonearm)
38		Slider
39		Holder
40		Holder
41	- 1	Spacer
42		Pulley
43	M07478686	Wire
44		Clamper Screw-metal M3
45		
46		Screw-Bind M3 x 5 Tapping-screw 3.1 x 13
47		Tapping-screw 3.1 x 13 Tapping-screw 1-3 x 10
48		P-tapping-screw 1-3 x 10
49		Tapping-screw 2-3 x 16 Tapping-screw 1-3 x 8
50 51	İ	Screw-bind M3 x 20
51		Screw-metal M4 x 14
52		Tapping-screw 1-3 x 12
54		Screw-bind M3 x 8
55		Screw-metal 2-3 × 20
56		Screw-metal M3 × 20
57	M07296760	Cartridge AT-12E
58	U713B064H05	Ornament
59		Slider
60	M04162629	Beit (For flywheel)
"		
1		

0		
Symbol	Part No.	Description
No.		
61	U524D049G01	Fly-wheel-assy
62		Bearing
63		Holder
64	M07478645	Gear
65	M07297450	Sw-micro
66		PCB-assy
67		Gear
68		Gear
69		Holder
70		Holder
71		Pullev
72		Pulley
73	M07478638	Motor (For vertical)
74	14107470000	PCB-assy
7 <del>4</del> 75		PCB-assy
75 76		Holder
	M04162638	Motor (For platter)
77 70		
78 70	M07445621	Pulley-assy Holder
79	M07445645	Gear
80	MU/445645	Base
81		
82		Holder Holder
83		
84		Holder
85		Holder
86		Holder
87		Holder
88	M07297639	Motor (Horizontal)
89		Pulley
90		Slit plate
91		Holder
92		Shaft
93	U703C088H02	Ornament
94		Holder
95	M07179660	Sw-micro (Power)
96		Pin
97	M07478680	Lead (Output)
98		Screw pc M3 x 6
99		Screw-bind M3 x 14
100		Screw M2.6 x 8
101		Screw-bind M3 x 10
102		Screw M3 x 8
103		Screw M2.6 × 8
104		Screw M2 x 10
105		Screw M2 x 6
106		Screw M4 x 20
107		E-ring 1.5
108		E-ring 2.0
109		E-ring 8.0
110		E-ring 4
111		E-ring 2.5
112	M04162628	Belt
113		Spring
114		Spring
115		Cushion-gum
116		Clamper
117	M07459440	Power cord △
118	U621D050H01	Shade
119	U564D026H02	Cover (For strobo)
120		Screw-bind M3 x 4
1		

Symbol No.	Part No.	Description
121 122 123 124 125 126 127 128 129 130 131 132 133	U564D067G01 M07479549	Screw-bind M3 x 6 Tapping-screw 1-3 x 16 Tapping-screw 2-3 x 8 Screw-metal 3 x 5 Screw metal M3 x 20 Screw bind-p 3 x 20 Screw-metal 4 x 20 Screw-bind M3 x 6  Holder PCB-assy PCB-assy Cabinet-back Trans-power Holder
		Packing
201 202 203 204 205	U800B093H03 U831C036H15 U813A060H04 U803D585H01 M07445603	Packing box Packing bag Cushion-mold Cushion Adaptor

Diodes	Symbol No.	Part No.	Description
D102   M07297320   SP254FS   SP254FS   D103   M08297320   SP254FS   D107   M07297320   SP254FS   D108   M07297320   SP254FS   D109   M07060320   1S2473   D111   M07060320   1S2473   D111   M07060320   IS2473   D112   M07060320   IS2473   D114   M07394320   MZ312   D115   M07171322   MZ310   MZ310   D116   M07060320   IS2473   D117   M07060320   IS2473   D121   M07060320   IS2473   D121   M07060320   IS2473   D121   M07060320   IS2473   D121   M07060320   IS2473   D125   M07297321   SR105C   D126   M07297321   SR105C   D127   M07297321   SR105C   D128   M07297321   SR105C   D129   M07391320   ISR34-100   D130   M07391320   ISR34-100   D131   M07391320   ISR34-100   D132   M07391320   ISR34-100   D132   M07391320   ISR34-100   D134   M07060320   IS2473   D136   M07060320   IS2473   D136   M07060320   IS2473   D137   M07060320   IS2473   D138   M07060320   IS2473   D139   M07060320   IS2473   D202   M07060320   IS2473   D203   M07060320   IS2473   D204   M07060320   IS2473   D204   M07060320   IS2473   D205   M07060320   IS2473   D206   M07060320   IS2473   D207   M07060320   I			Diodes
D103         M08297320         SP254FS           D107         M07297320         SP254FS           D108         M07297320         SP254FS           D109         M07060320         1S2473           D110         M07060320         1S2473           D111         M07060320         1S2473           D112         M07060320         1S2473           D116         M07060320         IS2473           D116         M07060320         IS2473           D117         M07060320         IS2473           D116         M07060320         IS2473           D121         M07060320         IS2473           D121         M07060320         IS2473           D121         M07060320         IS2473           D125         M07297321         SR105C           D126         M07297321         SR105C           D129         M07391320         ISR34-100           D130         M07391320         ISR34-100           D131         M07391320         ISR34-100           D132         M07391320         ISR34-100           D134         M07060320         IS2473           D136         M07060320         IS2473	D101	M07297320	SP254FS
D107         M07297320         SP254FS           D108         M07297320         SP254FS           D109         M07060320         152473           D110         M07060320         152473           D111         M07060320         152473           D112         M07060320         152473           D114         M07394320         MZ312           D115         M07171322         MZ310           D116         M07060320         152473           D117         M07060320         152473           D121         M07060320         152473           D121         M07060320         152473           D121         M07060320         152473           D125         M07297321         SR105C           D126         M07297321         SR105C           D127         M07297321         SR105C           D128         M07297321         SR105C           D129         M07391320         15R34-100           D130         M07391320         15R34-100           D131         M07391320         15R34-100           D133         M07060320         152473           D135         M07060320         152473	D102	M07297320	SP254FS
D108	D103	M08297320	
D109	D107	M07297320	
D110         M07060320         1S2473           D111         M07060320         1S2473           D112         M07060320         1S2473           D114         M07080320         1S2473           D115         M07171322         M2310           D116         M07060320         1S2473           D117         M07060320         1S2473           D121         M07060320         1S2473           D125         M07297321         SR105C           D126         M07297321         SR105C           D127         M07297321         SR105C           D128         M07297321         SR105C           D129         M07391320         1SR34-100           D130         M07391320         1SR34-100           D131         M07391320         1SR34-100           D134         M07060320         1S2473           D135         M07060320         1S2473           D136         M07060320         1S2473           D137         M07060320         1S2473           D139         M07060320         1S2473           D201         M07060320         1S2473           D201         M07437343         MC-4558C	l .	1	
D111         M07060320         152473           D112         M07060320         152473           D114         M07394320         MZ312           D115         M07171322         MZ310           D116         M07060320         152473           D121         M07060320         152473           D125         M07297321         SR105C           D126         M07297321         SR105C           D127         M07297321         SR105C           D128         M07297321         SR105C           D129         M07391320         1SR34-100           D130         M07391320         1SR34-100           D131         M07391320         1SR34-100           D132         M07391320         1SR34-100           D134         M07060320         1S2473           D135         M07391320         1SR34-100           D134         M07060320         1S2473           D135         M07060320         1S2473           D136         M07060320         1S2473           D138         M07060320         1S2473           D139         M07060320         1S2473           D201         M07060320         1S2473      <		1	
D1112         M07060320         1S2473           D114         M07394320         MZ312           D115         M07171322         MZ310           D116         M07060320         IS2473           D117         M07060320         1S2473           D121         M07060320         1S2473           D125         M07297321         SR105C           D126         M07297321         SR105C           D127         M07297321         SR105C           D128         M07297321         SR105C           D129         M07391320         1SR34-100           D130         M07391320         1SR34-100           D131         M07391320         1SR34-100           D132         M07391320         1SR34-100           D134         M07060320         1S2473           D135         M07060320         1S2473           D136         M07060320         1S2473           D137         M07060320         1S2473           D138         M07060320         1S2473           D139         M07060320         1S2473           D201         M07060320         1S2473           D202         M07060320         1S2473			
D114         M07394320         MZ312           D115         M07171322         MZ310           D116         M07060320         IS2473           D121         M07060320         1S2473           D125         M07297321         SR105C           D126         M07297321         SR105C           D127         M07297321         SR105C           D128         M07297321         SR105C           D129         M07391320         1SR34-100           D130         M07391320         1SR34-100           D131         M07391320         1SR34-100           D132         M07391320         1SR34-100           D134         M07060320         1S2473           D135         M07060320         1S2473           D136         M07060320         1S2473           D137         M07060320         1S2473           D138         M07060320         1S2473           D139         M07060320         1S2473           D201         M07060320         1S2473           D202         M07060320         1S2473           D203         M07060320         1S2473           D201         M07437343         MC-4558C <tr< td=""><td></td><td></td><td></td></tr<>			
D115         M07171322         MZ310           D116         M07060320         IS2473           D117         M07060320         1S2473           D121         M07060320         1S2473           D125         M07297321         SR105C           D126         M07297321         SR105C           D127         M07297321         SR105C           D128         M07297321         SR105C           D129         M07391320         1SR34-100           D130         M07391320         1SR34-100           D131         M07391320         1SR34-100           D132         M07391320         1SR34-100           D134         M07060320         1S2473           D135         M07060320         1S2473           D136         M07060320         1S2473           D137         M07060320         1S2473           D138         M07060320         1S2473           D139         M07060320         1S2473           D201         M07060320         1S2473           D201         M07060320         1S2473           D202         M07060320         1S2473           D203         M07437343         MSM-5831RS	l .		
D116			
D117         M07060320         152473           D121         M07060320         152473           D125         M07297321         SR105C           D126         M07297321         SR105C           D127         M07297321         SR105C           D128         M07297321         SR105C           D129         M07391320         1SR34-100           D130         M07391320         1SR34-100           D131         M07391320         1SR34-100           D132         M07391320         1SR34-100           D134         M07060320         1S2473           D135         M07060320         1S2473           D136         M07060320         1S2473           D137         M07060320         1S2473           D138         M07060320         1S2473           D201         M07060320         1S2473           D202         M07060320         1S2473           D202         M07060320         1S2473           D203         M07060320         1S2473           D203         M07060320         1S2473           IC101         M07437343         MC-4558C           IC102         M07370343         MPC-4558C		1 1	
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D126	D121	M07060320	<b>1</b> S2473
D127   M07297321   SR105C     D128   M07297321   SR105C     D129   M07391320   1SR34-100     D130   M07391320   1SR34-100     D131   M07391320   1SR34-100     D132   M07391320   1SR34-100     D134   M07060320   1S2473     D135   M07060320   1S2473     D136   M07060320   1S2473     D137   M07060320   1S2473     D138   M07060320   1S2473     D139   M07060320   1S2473     D201   M07060320   1S2473     D201   M07060320   1S2473     D202   M07060320   1S2473     D202   M07060320   1S2473     D203   M07060320   1S2473     D203   M07060320   1S2473     D203   M07060320   1S2473     D203   M07060320   1S2473     D201   M07370343   MFC-4558C     IC101   M07370343   μPC-4558C     IC104   M07370343   μPC-4558C     IC105   M07445343   MSM-4066     IC201   M07370343   μPC-4558C     IC201   M07370343   μPC-4558C     IC202   M07370343   μPC-4558C     IC204   M07370343   μPC-4558C     IC205   M07137303   PH101     O105   M07137303   PH101     O106   M07137308   2SA854     O106   M07137308   2SA854     O107   M05104313   2SC1740     O108   M05104313   2SC1740     O110   M05104313   2SC1740     O110   M05104313   2SC1740     O111   M07137307   2SC1741     O112   M07137308   2SA854     O113   M05104313   2SC1740     O114   M05104313   2SC1740     O115   M07137308   2SA854     O116   M07137308   2SA854     O117   M05104313   2SC1740     O118   M05104313   2SC1740     O119   M05104313   2SC1740     O110   M05104313   2SC1740     O111   M07137307   2SC1741     O112   M07137308   2SA854     O113   M05104313   2SC1740     O114   M05104313   2SC1740     O115   M07137308   2SA854     O116   M07137308   2SA854     O117   M05104313   2SC1740     O116   M07137307   2SC1741     O116   M07137308   2SA854     O117   M05104313   2SC1740     O118   M05104313   2SC1740     O119   M05104313   2SC1740     O119   M05104313   2SC1740     O110   M05104313   2SC1740	D125	M07297321	
D128   M07297321   SR105C     D129   M07391320   1SR34-100     D130   M07391320   1SR34-100     D131   M07391320   1SR34-100     D132   M07391320   1SR34-100     D134   M07060320   1S2473     D135   M07060320   1S2473     D136   M07060320   1S2473     D137   M07060320   1S2473     D138   M07060320   1S2473     D139   M07060320   1S2473     D139   M07060320   1S2473     D201   M07060320   1S2473     D202   M07060320   1S2473     D202   M07060320   1S2473     D203   M07060320   1S2473     D203   M07060320   1S2473     D203   M07060320   1S2473     D203   M07060320   1S2473     D201   M07370343   μPC-4558C     IC102   M07370343   μPC-4558C     IC103   M07370343   μPC-4558C     IC201   M07370343   μPC-4558C     IC202   M07370343   μPC-4558C     IC202   M07370343   μPC-4558C     IC202   M07370343   μPC-4558C     IC202   M07370343   μPC-4558C     D203   M05104313   2SC1740     D104   M05104313   2SC1740     D106   M07137308   2SA854     D107   M05104313   2SC1740     D108   M05104313   2SC1740     D109   M05104313   2SC1740     D110   M05104313   2SC1740     D111   M07137307   2SC1741     D112   M07137308   2SA854     D113   M05104313   2SC1740     D114   M05104313   2SC1740     D115   M07137307   2SC1741     D116   M07137308   2SA854     D117   M05104313   2SC1740     D118   M05104313   2SC1740     D119   M05104313   2SC1740     D110   M05104313   2SC1740     D110   M05104313   2SC1740     D111   M05104313   2SC1740     D116   M05104313   2SC1740     D116   M05104313   2SC17			- · · · · ·
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Q101         M07137303         PH101           Q102         M07137303         PH101           Q103         M05104313         2SC1740           Q104         M05104313         2SC1740           Q105         M07137308         2SA854           Q106         M07137308         2SA854           Q107         M05104313         2SC1740           Q108         M05104313         2SC1740           Q109         M05104313         2SC1740           Q110         M05104313         2SC1740           Q111         M07137307         2SC1741           Q112         M07137308         2SA854           Q113         M05104313         2SC1740           Q114         M05104313         2SC1740           Q115         M07137307         2SC1741           Q116         M07137308         2SA854           Q117         M05104313         2SC1740	1		· - i
Q101         M07137303         PH101           Q102         M07137303         PH101           Q103         M05104313         2SC1740           Q104         M05104313         2SC1740           Q105         M07137308         2SA854           Q106         M07137308         2SA854           Q107         M05104313         2SC1740           Q108         M05104313         2SC1740           Q109         M05104313         2SC1740           Q110         M05104313         2SC1740           Q111         M07137307         2SC1741           Q112         M07137308         2SA854           Q113         M05104313         2SC1740           Q114         M05104313         2SC1740           Q115         M07137307         2SC1741           Q116         M07137308         2SA854           Q117         M05104313         2SC1740		<u>                                     </u>	Transistors
0102         M07137303         PH101           0103         M05104313         2SC1740           0104         M05104313         2SC1740           0105         M07137308         2SA854           0106         M07137308         2SA854           0107         M05104313         2SC1740           0108         M05104313         2SC1740           0109         M05104313         2SC1740           0110         M05104313         2SC1740           0111         M07137307         2SC1741           0112         M07137308         2SA854           0113         M05104313         2SC1740           0114         M05104313         2SC1740           0115         M07137307         2SC1741           0116         M07137308         2SA854           0117         M05104313         2SC1740	0101	M07127302	
0103         M05104313         2SC1740           0104         M05104313         2SC1740           0105         M07137308         2SA854           0106         M07137308         2SA854           0107         M05104313         2SC1740           0108         M05104313         2SC1740           0109         M05104313         2SC1740           0110         M05104313         2SC1740           0111         M07137307         2SC1741           0112         M07137308         2SA854           0113         M05104313         2SC1740           0114         M05104313         2SC1740           0115         M07137307         2SC1741           0116         M07137308         2SA854           0117         M05104313         2SC1740		1	
Q104         M05104313         2SC1740           Q105         M07137308         2SA854           Q106         M07137308         2SA854           Q107         M05104313         2SC1740           Q108         M05104313         2SC1740           Q109         M05104313         2SC1740           Q110         M05104313         2SC1740           Q111         M07137307         2SC1741           Q112         M07137308         2SA854           Q113         M05104313         2SC1740           Q114         M05104313         2SC1740           Q115         M07137307         2SC1741           Q116         M07137308         2SA854           Q117         M05104313         2SC1740	i i		
Q106       M07137308       2SA854         Q107       M05104313       2SC1740         Q108       M05104313       2SC1740         Q109       M05104313       2SC1740         Q110       M05104313       2SC1740         Q111       M07137307       2SC1741         Q112       M07137308       2SA854         Q113       M05104313       2SC1740         Q114       M05104313       2SC1740         Q115       M07137307       2SC1741         Q116       M07137308       2SA854         Q117       M05104313       2SC1740	1		2SC1740
Q107       M05104313       2SC1740         Q108       M05104313       2SC1740         Q109       M05104313       2SC1740         Q110       M05104313       2SC1740         Q111       M07137307       2SC1741         Q112       M07137308       2SA854         Q113       M05104313       2SC1740         Q114       M05104313       2SC1740         Q115       M07137307       2SC1741         Q116       M07137308       2SA854         Q117       M05104313       2SC1740	Q105	M07137308	2SA854
Q108       M05104313       2SC1740         Q109       M05104313       2SC1740         Q110       M05104313       2SC1740         Q111       M07137307       2SC1741         Q112       M07137308       2SA854         Q113       M05104313       2SC1740         Q114       M05104313       2SC1740         Q115       M07137307       2SC1741         Q116       M07137308       2SA854         Q117       M05104313       2SC1740	Q106	M07137308	2SA854
Q109       M05104313       2SC1740         Q110       M05104313       2SC1740         Q111       M07137307       2SC1741         Q112       M07137308       2SA854         Q113       M05104313       2SC1740         Q114       M05104313       2SC1740         Q115       M07137307       2SC1741         Q116       M07137308       2SA854         Q117       M05104313       2SC1740	t		
Q110       M05104313       2SC1740         Q111       M07137307       2SC1741         Q112       M07137308       2SA854         Q113       M05104313       2SC1740         Q114       M05104313       2SC1740         Q115       M07137307       2SC1741         Q116       M07137308       2SA854         Q117       M05104313       2SC1740	1		
Q111       M07137307       2SC1741         Q112       M07137308       2SA854         Q113       M05104313       2SC1740         Q114       M05104313       2SC1740         Q115       M07137307       2SC1741         Q116       M07137308       2SA854         Q117       M05104313       2SC1740	ı		
Q112     M07137308     2SA854       Q113     M05104313     2SC1740       Q114     M05104313     2SC1740       Q115     M07137307     2SC1741       Q116     M07137308     2SA854       Q117     M05104313     2SC1740			
Q113       M05104313       2SC1740         Q114       M05104313       2SC1740         Q115       M07137307       2SC1741         Q116       M07137308       2SA854         Q117       M05104313       2SC1740	ı		
Q114       M05104313       2SC1740         Q115       M07137307       2SC1741         Q116       M07137308       2SA854         Q117       M05104313       2SC1740	1		
Q115     M07137307     2SC1741       Q116     M07137308     2SA854       Q117     M05104313     2SC1740	i i		= = :
Q116 M07137308 2SA854 Q117 M05104313 2SC1740	1	i .	ł
	1	4	2SA854
Q118   M07137307   2SC1741	Q117	M05104313	2SC1740
	Q118	M07137307	2SC1741



	Symbol No.	Part No.	Description
		+	
ı	Q119	M07137308	2SA854
- 1	Q120	M05104313	2SC1740
- 1	Q121 Q122	M07137307 M07137308	2SC1741
	Q122	M05104313	2SA854 2SC1740
	Q124	M05104313	2SC1740
	Q125	M05104313	2SC1740
	Q126	M05104313	2SC1740
Ì	Q127	M07230307	2SB549
- [	Q128	M05104313	2SC1740
- [	Q129	M07137306	2SA826
	Q130	M05104313	2SC1740
1	Q131	M07137307	2SC1741
1	Q132	M07137308	2SA854
1	Q133	M07137306	2SA826 ~
1	Q134	M05104313	2SC1740
	Q135	M07137307	2SC1741
	Q136	M07137308	2SA854
	Q137	M05104313	2SC1740
	Q138	M05104313	2SC1740
j	Q139	M05079311	2SD360 , -
	Q140	M05104313	2SC1740
İ	Q142	M05104313	2SC1740
	Q144	M05104313	2SC1740
1	Q145	M05079311	2SD360
1	Q201	M05104313	2SC1740
1	Q202	M05104313	2SC1740
	Q203	M05104313	2SC1740
	Q204	M05104313	2SC1740
	Q205 Q206	M05104313 M05104313	2SC1740
	Q207	M05104313	2SC1740
	Q208	M05104313	2SC1740 2SC1646
F			Electrical parts
	LA101	M07374251	Lamp (Position light
- 1	LA101	M07374251	Lamp (Position light source)  Lamp (Position light source)
	LA103	M07374251	Lamp (End light source)
1	LA104	M07374251	Lamp (Tracking servo light source)
	LA105	M07374251	Lamp (Tracking servo light source)
1	LA111	M07297250	Lamp (Refractor light source)
1	LA112	M07297250	Lamp (Refractor light source)
	LA201	M07374251	Lamp (Tracking indicator)
1	LA <b>2</b> 02	M07374251	Lamp (Tracking indicator)
	LA203	M07374251	Lamp (Tracking indicator)
	LA204	M07374251	Lamp (Lead-in indicator)
	LA205	M07374251	Lamp (Lead-out indicator)
1	LA206	M07374251	Lamp (Tonearm down indicator)
	LA207	M07374251	Lamp (Tonearm up indicator)
1	LA208	M07374251	Lamp (33 speed indicator)
1	LA209	M07374251	Lamp (45 speed indicator)
1	LA210	M07374251	Lamp (Repeat indicator)
	PT101	M07479549	Power transformer 🛕
1	RL101	M07374460	Relay
	RL102	M07215465	Relay (Tracking servo select)
F	=1	M07352490	Fuse-1A-SEMKO 🛕
Ц.			<b>i</b>

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S101	M07297450	Micro switch (Rest)
S102	M07297450	Micro switch (Cam/Up)
S103	M07297450	Micro switch (Cam/Down)
S104	M07445660	Push switch (Repeat)
S105	M07445660	Push switch (Speed)
S106	M07445660	Push switch (Start)
S107	M07445660	Push switch (Lift/Cue)
S108	M07445660	Push switch (Stop)
S109	M07459660	Micro switch (Power)
S110	M07445661	Slide switch (Muting)
VR103	M07445435	Variable resistor (5KΩ-B, Speed
VR104	M07445405	fine adj.)
VH104	M07445435	Variable resistor (5K $\Omega$ -B, Speed fine adj.)
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# **PACKING CHART**

