

# CDP-C322M

## SERVICE MANUAL

*US Model  
AEP Model  
UK Model  
E Model  
Australian Model*



Model Name Using Similar Mechanism	CDP-C325M/C422M
Optical Pick-up Block Type	BU-5BD8B

### SPECIFICATIONS

System	Compact disc digital audio system	<b>General</b>	
Laser	Semiconductor laser ( $\lambda = 780 \text{ nm}$ )	Power requirements	US model: 120V AC, 60Hz UK, Australian model: 240V AC, 50/60Hz AEP model: 220–230V AC, 50/60Hz E model: 110–120 or 220–240V AC adjustable, 50/60Hz
Laser output	Emission duration: continuous Max. $44.6 \mu\text{W}^*$ * This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.	Power consumption	12 W
Frequency response	2 Hz – 20 kHz ( $\pm 0.5 \text{ dB}$ )	Dimensions	Approx. $355 \times 120 \times 385 \text{ mm}$ (w/h/d) ( $14 \times 4\frac{3}{4} \times 15\frac{1}{4}$ inches) including projecting parts and controls
Signal to noise ratio	More than 100 dB	Weight	Approx. 5.0 kg (11 lbs 1 oz), net
Dynamic range	More than 98 dB	<b>Supplied accessories</b>	
Harmonic distortion	Less than 0.005% (1 kHz)	Audio signal connecting cord	(phono plug $\times 2 \leftrightarrow$ phono plug $\times 2$ ) (1)
Channel separation	More than 100 dB (1 kHz)	Operating Manual	(1)
Wow and flutter	Below measurable limit		
Outputs	LINE OUT (phono jacks) Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms		

Design and specifications are subject to change without notice.



COMPACT DISC PLAYER  
**SONY**®

# CDP-C322M

## SERVICE MANUAL

US Model  
AEP Model  
UK Model  
E Model  
Australian Model



Model Name (yang Seder Modelnya)	CDP-C322M/C322E
Original Part-Kit Stock Type	BU-88288

### SPECIFICATIONS

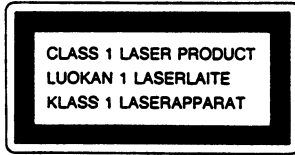
System	Compact disc digital audio system	General	18 (total)
Label	Resistive (layer 0.1-0.16 mm)	Power requirements	100V AC, 60Hz
Laser output	Emitter diameter continuous laser, 40.8 $\mu$ m * This output is the value measured at a distance of about 200 mm from the optical pickup lens on the Optical Pick-up Block.	Power consumption (Standalone)	1.5W Approx. 330 (x) 100 (x) 300 mm per 1/8 (24 (x) 48 (x) 10%), including projecting parts and controls
Frequency response	2 Hz - 20 kHz ( $\pm 0.5$ dB)	Weight	Approx. 5.6 kg (12 lbs 1-1/2, net)
Signal to noise ratio	more than 100 dB	Supplied accessories	Audio signal controlling cord (phone plug x 2 - phone plug x 1) (1)
Dynamic range	more than 80 dB	Operating interval (1)	
Harmonic distortion	less than 0.0005% (1 kHz)		
Channel separation	more than 100 dB (1 kHz)		
Wow and flutter	below measurable limit		
Outputs	LIFE OUT (pinch) (built-in) (Output level 0.7 V 80 dB without load impedance over 10 ohms)		

Design and specifications are subject to change without notice.



COMPACT DISC PLAYER  
**SONY**

**For the United Kingdom and European Countries.**



This Compact Disc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the rear exterior.

**NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT**

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts. The flexible board is easily damaged and should be handled with care.

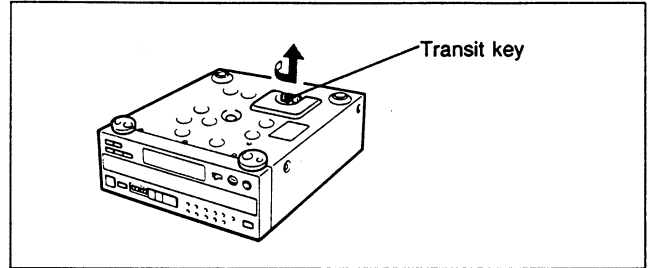
**NOTES ON LASER DIODE EMISSION CHECK**

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30cm away from the objective lens.

**SAFETY-RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

**Note on the Transit Key**

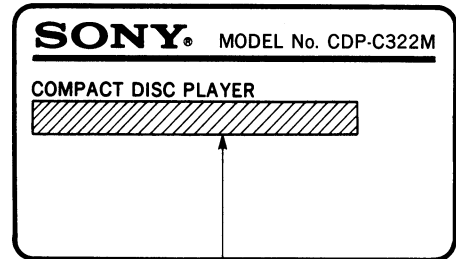


The transit key on the bottom exterior of the unit protects the optical system against shock during transportation. Before operating the CD player, be sure to remove the key by following the instructions on the label, and store it in a safe place.

When transporting the unit, replace the key in its original hole and lock it in place.

**MODEL IDENTIFICATION**

— Specification Label —



- US model: AC: 120V 60Hz 12W
- AEP model: AC: 220-230V~50/60Hz
- UK, AUS model: AC: 240V~50/60Hz
- E model: AC: 110-120, 220-240V~50/60Hz 12W

•AUS: Australian model

For the United Kingdom and European Countries.



The Compact Disc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the rear exterior.

**NOTES ON HANDLING THE OPTICAL PICKUP MOUNT ON BASE UNIT**

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, oil, dust, clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

**NOTES ON LASER BEAM EMISSION CHECK**

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser beam emission, observe that your face does not come close to the objective lens.

**SAFETY-RELATED COMPONENT WARNINGS:**

COMPONENTS IDENTIFIED BY MARK **A** ON PORTED LINE WITH MARK **A** ON THE MANUFACTURE MARKING AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH BONY PARTS IDENTICAL PART MARKINGS APPEAR AS LISTED IN THIS MANUAL, OR IN SUPPLEMENTAL PART LISTS BY BONY.

**Note on the Transit Key**



The transit key on the bottom exterior of the unit protects the optical system against shock during transportation. Before operating the CD player, be sure to remove the key by following the instructions on the label, and store it in a safe place.

When transporting the unit, replace the key in its original hole and lock it in place.

**MODEL IDENTIFICATION**

— Specification Label —



- 100 model: AC: 100V 50/60 100W
- 120V model: AC: 120-240V 50/60Hz
- 240V model: AC: 240V 50/60Hz
- 2 model: AC: 110-240 100-240V 50/60Hz 100W

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## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

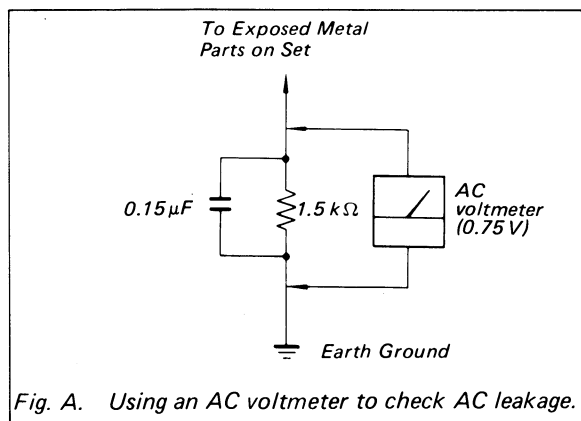


Fig. A. Using an AC voltmeter to check AC leakage.

## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the unit to the customer:

Check for excessive terminals, loose wires, "unshielded" leads, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

### LEAKAGE TEST

The AC leakage from any exposed metal part in both ground and from all exposed metal parts in any exposed metal part during a service to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage meter, such as the Simpson 228 or RCA WT-245A. Follow the manufacturer's instructions to use these instruments.
2. A factory-operated AC milliammeter. The Data Precision 344 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or factory-operated AC multimeter. The "load" indication is 0.15V, so scaling across must have an accurate low-voltage scale. The Simpson 220 and Sears 584-0101 are examples of a precise VOM that is suitable. Study all factory-operated digital multimeters that have a [V AC] range as suitable. (See Fig. A.)



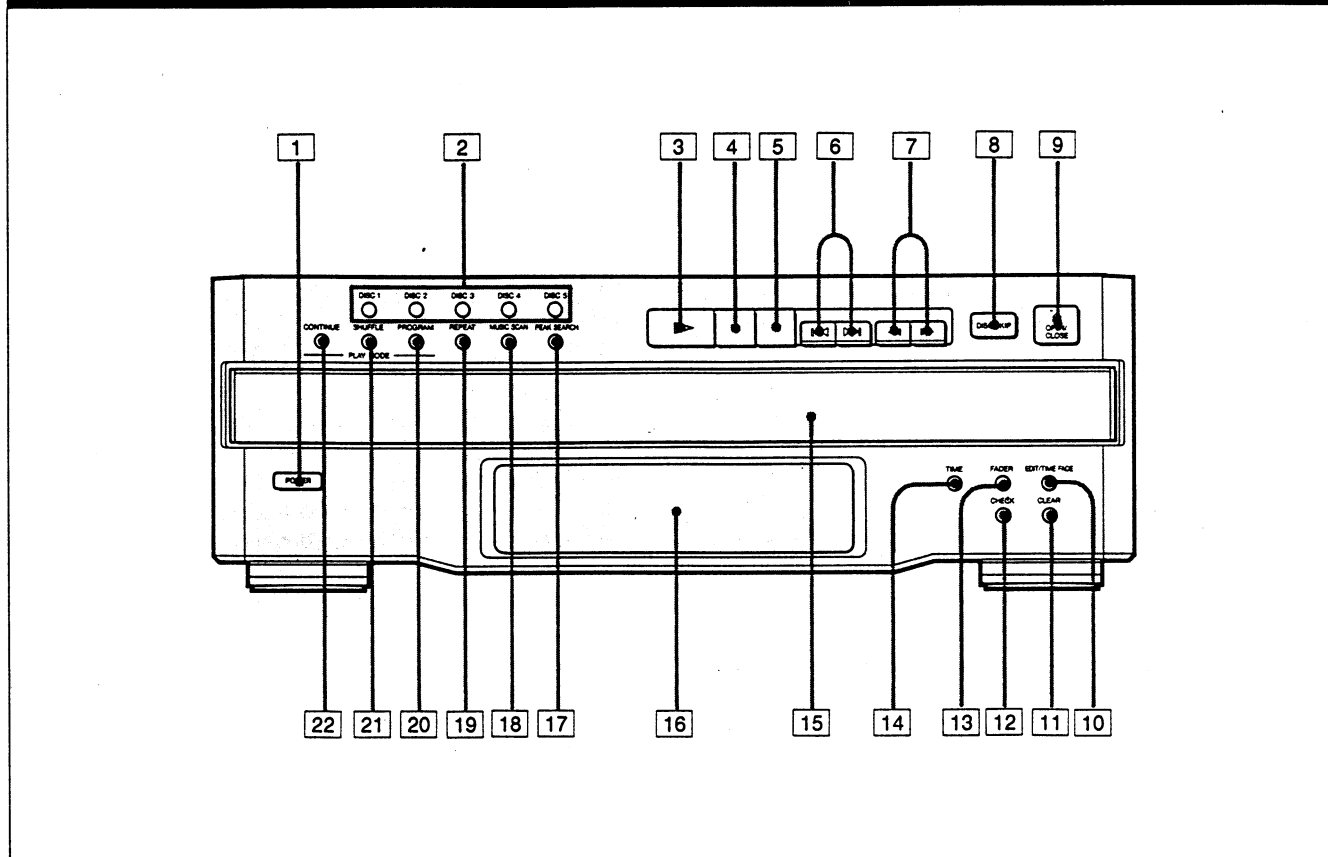
Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1  
GENERAL

This section is extracted from instruction manual.

1-1. LOCATION AND CONTROLS

Front Panel



Refer to the pages indicated in ( ) for details.

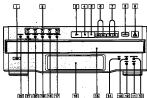
- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>1 POWER switch (page 8)</li> <li>2 DISC 1-5 buttons (page 8)</li> <li>3 ► (play) button (page 8)</li> <li>4    (pause) button (page 8)</li> <li>5 ■ (stop) button (page 8)</li> <li>6 ◀◀/▶▶ (AMS*) buttons (page 10)</li> <li>7 ◀◀/▶▶ (manual search) buttons (page 10)</li> <li>8 DISC SKIP button (page 8)</li> <li>9 ▲ OPEN/CLOSE button (page 8)</li> <li>10 EDIT/TIME FADE button (page 14)</li> <li>11 CLEAR (program clear) button (page 13)</li> </ul> | <ul style="list-style-type: none"> <li>12 CHECK (program check) button (page 13)</li> <li>13 FADER button (page 17)</li> <li>14 TIME button (page 9)</li> <li>15 Disc tray (page 8)</li> <li>16 Display window</li> <li>17 PEAK SEARCH button (page 18)</li> <li>18 MUSIC SCAN button (page 16)</li> <li>19 REPEAT button (page 16)</li> <li>20 PROGRAM button (page 12)</li> <li>21 SHUFFLE button (page 11)</li> <li>22 CONTINUE button (page 8)</li> </ul> |
|---|---|

\* AMS is the abbreviation of Automatic Music Sensor.

SECTION 1  
GENERALThis section is extracted from  
Instruction manual.

## 1.1. LOCATION AND CONTROLS

## Front Panel



Refer to the pages indicated in ( ) for details.

- |  |   |
|--|---|
| 1 POWER switch (page 6)                          | 17 CHECK (program check) button (page 18) |
| 2 TRAC 1-4 buttons (page 6)                      | 18 FOCUS button (page 17)                 |
| 3 PLAY button (page 6)                           | 19 TIME button (page 6)                   |
| 4 STOP button (page 6)                           | 20 Still free (page 6)                    |
| 5 FF (fast) button (page 6)                      | 21 Display window                         |
| 6 Fast/Normal (F/N*) buttons (page 10)           | 22 FEAR (SEARCH) button (page 18)         |
| 7 F.F.W.F.F. (manual ejection) buttons (page 10) | 23 MISC. SCAN button (page 18)            |
| 8 DISC STOP button (page 6)                      | 24 REPEAT button (page 18)                |
| 9 MISC. OPEN/CLOSE button (page 6)               | 25 PROGRAM button (page 18)               |
| 10 STOP/TIME PAUSE button (page 10)              | 26 SHUFFLE button (page 11)               |
| 11 CLEAR (program check) button (page 18)        | 27 CONTINUE button (page 6)               |

\* F/N is the abbreviation of Automatic-Normal Search.

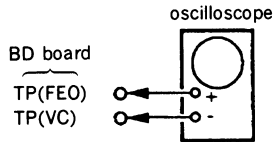


## SECTION 2 ELECTRICAL BLOCK CHECKING

### Note :

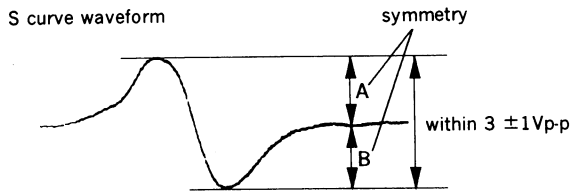
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than  $10M\Omega$  impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

### S Curve Check



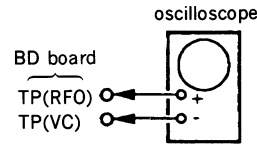
### Procedure :

1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within  $3 \pm 1V_{p-p}$ .



5. After check, remove the lead wire connected in step 2.
- Note :**
- Try to measure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.
  - Take sweep time as long as possible and light up the brightness to obtain best waveform.

### RF Level Check

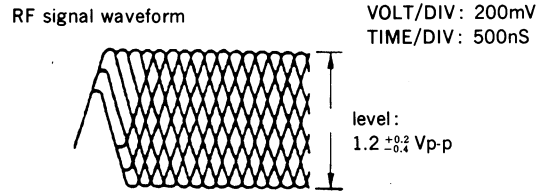


### Procedure :

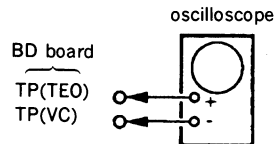
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

### Note :

Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

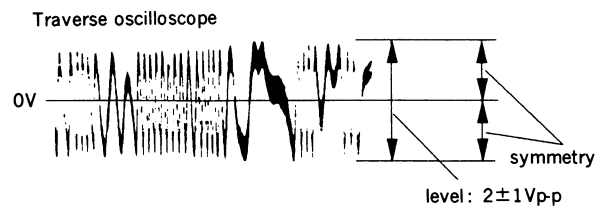


### E-F Balance Check



### Procedure :

1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.



6. Remove the lead wire connected in step 1.

## SECTION 2 ELECTRICAL BLOCK CHECKING

### Notes:

1. CD block is usually constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YIELD/STOP (Y) (H) (L) (S) unless otherwise indicated.
3. Use DC oscilloscope with more than 10MHz impedance.
4. Clear on signal trace by an oscilloscope with second detector when the signal level is low than specified value with the following checks:

### B Curve Check



#### Procedure:

1. Connect oscilloscope to test point TP (P50) on BD board.
2. Connect between test point TP (P50) and TP (V2) by lead wire.
3. Turned Power switch on and activate the focus knob between the focus knob when the table is moving to end end.
4. Check the oscilloscope waveform (I) curve is established on between A and B. And confirm peak to peak level within 1.1V<sub>p-p</sub>.

#### I wave waveform



5. After check, remove the lead wire connected in step 2.
- Note:** • Try to observe several times to make sure that the value of A, B or C, A is more than 2 : 1.  
• Take every care as long as possible and light up the brightness to obtain best waveform.

### B7 Level Check



#### Procedure:

1. Connect oscilloscope to test point TP (P50) on BD board.
2. Turn Power switch on.
3. Put the (YIELD/STOP) to end playback.
4. Confirm that oscilloscope waveform is clear and check B7 signal level is correct or not.

#### Note:

Clear B7 signal waveform means that the slope "Q" can be clearly distinguished at the center of the waveform.

#### B7 signal waveform



### B4 Balance Check



#### Procedure:

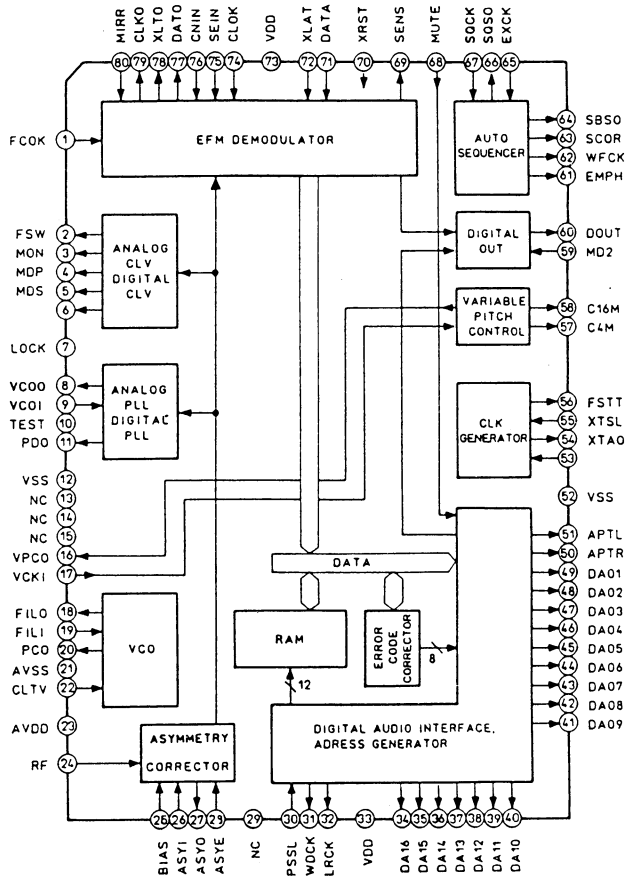
1. Connect test point TP (A02) to ground and TP (E20) to TP (V2) with lead wire.
2. Connect oscilloscope to test point TP (E20) on BD board.
3. Turn Power switch on.
4. Put the (YIELD/STOP) to end playback.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom to reference to TP, and check this level.

#### Balance waveform

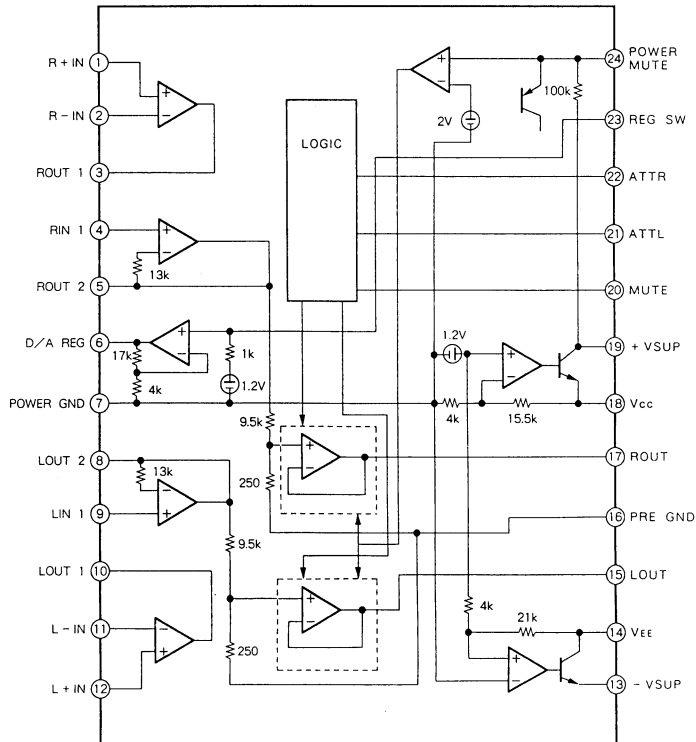


6. Remove the lead wire connected in step 1.

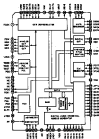
IC301 CXD2500AQ



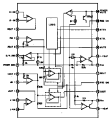
IC306 LA9215



K004 CONTROLLER



K004 LAYOUT



# SECTION 4 EXPLODED VIEWS

**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.

- -XX, -X mean standardized parts, so they may have some differences from the original one.

- Color Indication of Appearance Parts  
Example:  
KNOB, BALANCE (WHITE)...(RED)

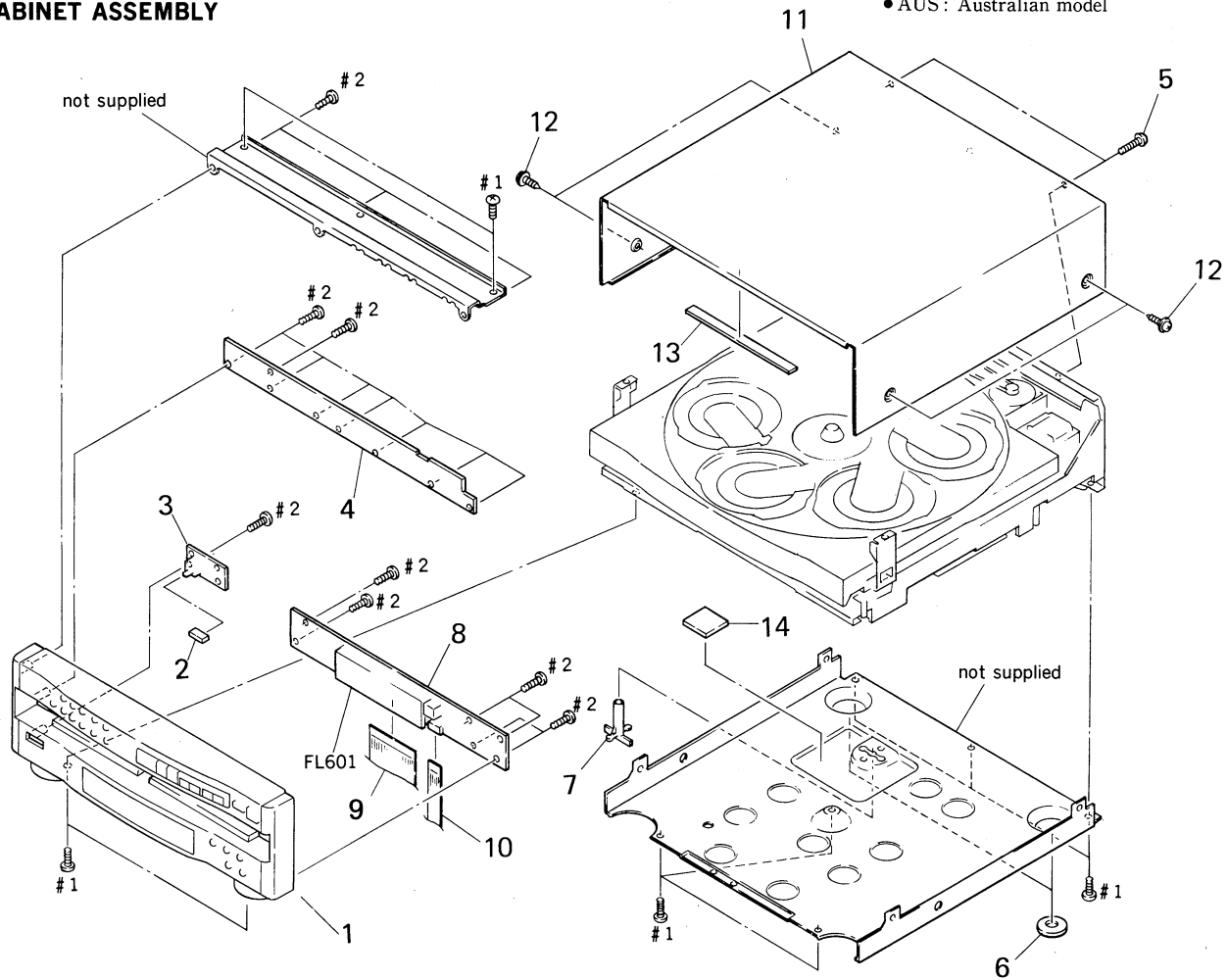
Parts Color      Cabinet's Color

- Hardware (# mark) list is given in the last of this parts list.

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

**4-1. CABINET ASSEMBLY**

- AUS: Australian model



Ref. No.	Part No.	Description	Remark
1	X-4942-544-1	PANEL ASSY, FRONT (AEP:BLACK)	
1	X-4942-545-1	PANEL ASSY, FRONT (UK, AEP:GRAY)	
1	X-4942-546-1	PANEL ASSY, FRONT (US)	
1	X-4942-547-1	PANEL ASSY, FRONT (E, AUS)	
2	4-927-341-01	BUTTON (POWER)	
* 3	1-643-531-11	PUSH SW BOARD	
* 4	1-643-529-11	SW BOARD	
5	3-703-685-21	SCREW (+BV 3X8)	
6	4-924-410-01	FELT	
7	4-937-945-01	PLATE (TRANSPORT), LOCK	

Ref. No.	Part No.	Description	Remark
* 8	1-643-530-11	DISPLAY BOARD	
9	1-690-848-21	WIRE (FLAT TYPE) (33 CORE)	
10	1-690-849-21	WIRE (FLAT TYPE) (11 CORE)	
* 11	4-943-992-01	CASE (US, AEP:BLACK)	
* 11	4-943-992-11	CASE (UK, E, AUS, AEP:GRAY)	
12	3-704-366-01	SCREW (CASE) (M3X8)	
* 13	4-929-557-01	CUSHION (PANEL)	
* 14	4-951-946-01	SHEET	
FL601	1-519-721-11	INDICATOR TUBE, FLUORESCENT	

## SECTION 4 EXPLODED VIEWS

### NOTES:

- The mechanical parts with no reference number in this exploded view must be replaced as a set.
- Some models "A" are not available since they are obsolete (marked as "obsolete" in the parts list). The parts should be substituted with similar items from other models.

- "C" and "L" mean residential units, as they may have some differences from the regular unit.

- Color indicators of Appearance Parts Indicators: **EMR, BALLPAC WHITE, LOGS**

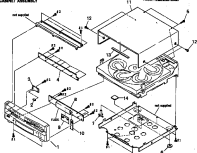
From Color    Customer's Color

- Dimensions of wood top is given in the list of this part list.

The appearance identified in part list is for reference only and is not intended for sales. Appearance may vary from model to model.

\*A222 - Interchange model

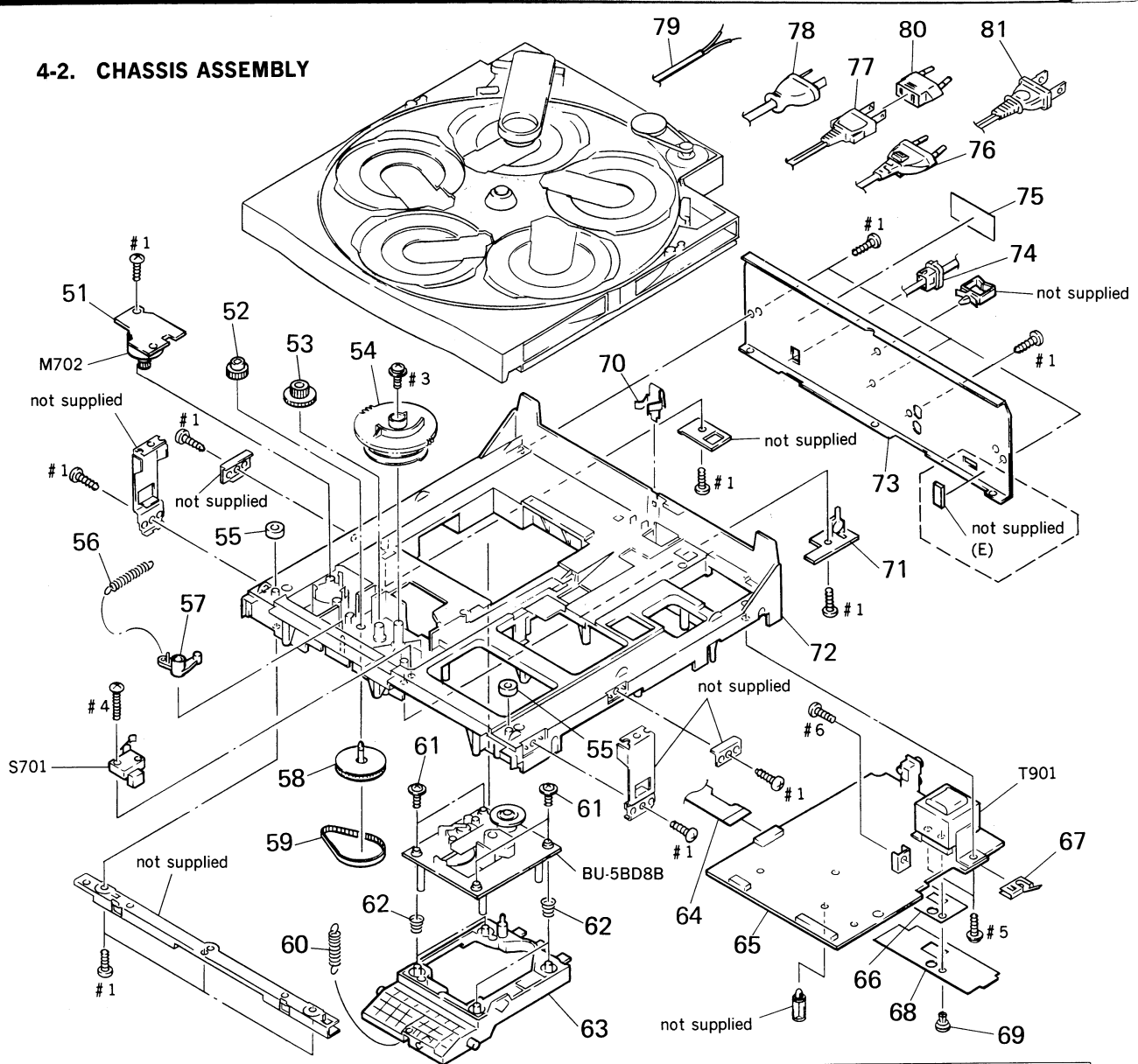
### 4.1. CABINET ASSEMBLY



Part No.	Part No.	Description	Remark
1	1-000-000-0	FRONT PANEL (EMR)	
1	1-000-000-1	FRONT PANEL (BALLPAC)	
1	1-000-000-2	FRONT PANEL (LOGS)	
1	1-000-000-3	FRONT PANEL (EMR)	
1	1-000-000-4	FRONT PANEL (BALLPAC)	
1	1-000-000-5	FRONT PANEL (LOGS)	
2	1-000-000-0	CABINET BODY (EMR)	
2	1-000-000-1	CABINET BODY (BALLPAC)	
2	1-000-000-2	CABINET BODY (LOGS)	
2	1-000-000-3	CABINET BODY (EMR)	
2	1-000-000-4	CABINET BODY (BALLPAC)	
2	1-000-000-5	CABINET BODY (LOGS)	

Part No.	Part No.	Description	Remark
3	1-000-000-0	SCREW (EMR)	
3	1-000-000-1	SCREW (BALLPAC)	
3	1-000-000-2	SCREW (LOGS)	
3	1-000-000-3	SCREW (EMR)	
3	1-000-000-4	SCREW (BALLPAC)	
3	1-000-000-5	SCREW (LOGS)	
4	1-000-000-0	SCREW (EMR)	
4	1-000-000-1	SCREW (BALLPAC)	
4	1-000-000-2	SCREW (LOGS)	
4	1-000-000-3	SCREW (EMR)	
4	1-000-000-4	SCREW (BALLPAC)	
4	1-000-000-5	SCREW (LOGS)	
5	1-000-000-0	SCREW (EMR)	
5	1-000-000-1	SCREW (BALLPAC)	
5	1-000-000-2	SCREW (LOGS)	
5	1-000-000-3	SCREW (EMR)	
5	1-000-000-4	SCREW (BALLPAC)	
5	1-000-000-5	SCREW (LOGS)	
6	1-000-000-0	SCREW (EMR)	
6	1-000-000-1	SCREW (BALLPAC)	
6	1-000-000-2	SCREW (LOGS)	
6	1-000-000-3	SCREW (EMR)	
6	1-000-000-4	SCREW (BALLPAC)	
6	1-000-000-5	SCREW (LOGS)	
7	1-000-000-0	SCREW (EMR)	
7	1-000-000-1	SCREW (BALLPAC)	
7	1-000-000-2	SCREW (LOGS)	
7	1-000-000-3	SCREW (EMR)	
7	1-000-000-4	SCREW (BALLPAC)	
7	1-000-000-5	SCREW (LOGS)	

## 4-2. CHASSIS ASSEMBLY

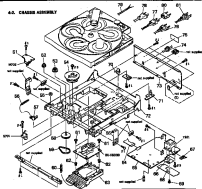


**Note:** The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
* 51	1-638-730-11	LOADING MOTOR BOARD	
52	4-934-375-01	GEAR (LOADING B)	
53	4-934-381-01	GEAR (LOADING C)	
54	4-934-391-01	GEAR (LOADING A)	
* 55	4-951-619-01	CUSHION (A)	
56	4-924-412-01	SPRING (B), TENSION	
57	4-917-519-01	LEVER, SET	
58	X-4941-529-1	PULLEY ASSY	
59	4-944-490-01	BELT (TIMING)	
60	4-937-911-01	SPRING, TENSION	
61	4-933-134-01	SCREW (+PTPW M2. 6X6)	
62	4-949-385-01	SPRING (D), COIL	
* 63	4-934-373-01	BRACKET (BU)	
64	1-694-003-11	JAMPER, FILM (WITH TARMINAL)	
* 65	A-4649-204-A	MAIN BOARD, COMPLETE (AEP, UK, AUS)	
* 65	A-4649-212-A	MAIN BOARD, COMPLETE (US)	
* 65	A-4649-219-A	MAIN BOARD, COMPLETE (E)	
* 66	4-951-933-01	SHEET, INSULATING (AEP, UK, AUS)	
* 67	4-944-581-01	PLATE, GROUND	
* 68	4-944-178-01	SHEET (INSULATING)	
69	3-531-576-11	RIVET	

Ref. No.	Part No.	Description	Remark
* 70	4-943-996-01	SPRING, LEAF	
* 71	1-638-731-11	OPEN/UP SW BOARD	
* 72	4-943-997-01	CHASSIS	
* 73	4-949-861-01	PANEL, BACK (US)	
* 73	4-949-861-21	PANEL, BACK (AEP)	
* 73	4-949-861-31	PANEL, BACK (UK, AUS)	
* 73	4-949-861-41	PANEL, BACK (E)	
* 74	3-703-244-00	BUSHING (2104), CORD (EXCEPT E)	
* 74	3-703-571-11	BUSHING (S) (4516), CORD (E)	
* 75	4-941-548-01	LABEL, CLASS 1 (EXCEPT US)	
$\triangle$ 76	1-575-651-21	CORD, POWER (AEP)	
$\triangle$ 77	1-575-653-21	CORD, POWER (E)	
$\triangle$ 78	1-574-358-31	CORD, POWER (WITH CONNECTOR) (AUS)	
$\triangle$ 79	1-558-946-21	CORD, POWER (UK)	
$\triangle$ 80	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
$\triangle$ 81	1-590-836-11	CORD, POWER (US)	
M702	A-4604-834-A	MOTOR ASSY, LOADING	
S701	1-572-713-11	SWITCH, PUSH (WITH CONNECTOR)	
$\triangle$ T901	1-449-955-11	TRANSFORMER, POWER (AEP, UK, AUS)	
$\triangle$ T901	1-449-956-11	TRANSFORMER, POWER (E)	
$\triangle$ T901	1-450-876-11	TRANSFORMER, POWER (US)	

## 4.2. CHASSIS ASSEMBLY



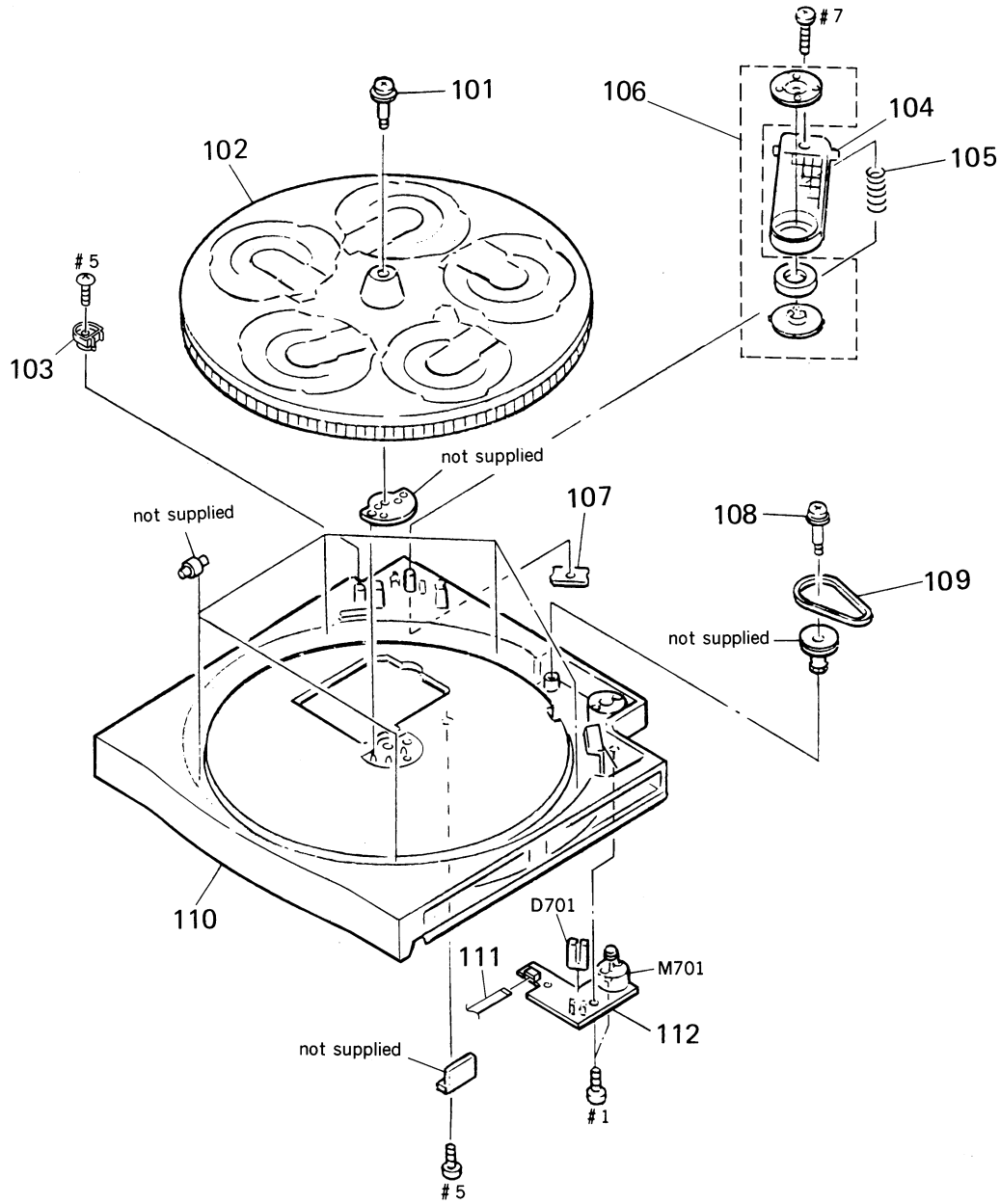
Note: The components identified by each  $\Delta$  in detail list only apply to the version of the chassis shown. Components not shown were not included.

Call No.	Part No.	Description	Mount
1	1-00-10-01	TOP COVER (SEE NOTE)	
2	1-00-07-01	WASHER (SEE NOTE)	
3	1-00-08-01	WASHER (SEE NOTE)	
4	1-00-09-01	WASHER (SEE NOTE)	
5	1-00-11-01	WASHER (SEE NOTE)	
6	1-00-12-01	WASHER (SEE NOTE)	
7	1-00-13-01	WASHER (SEE NOTE)	
8	1-00-14-01	WASHER (SEE NOTE)	
9	1-00-15-01	WASHER (SEE NOTE)	
10	1-00-16-01	WASHER (SEE NOTE)	
11	1-00-17-01	WASHER (SEE NOTE)	
12	1-00-18-01	WASHER (SEE NOTE)	
13	1-00-19-01	WASHER (SEE NOTE)	
14	1-00-20-01	WASHER (SEE NOTE)	
15	1-00-21-01	WASHER (SEE NOTE)	
16	1-00-22-01	WASHER (SEE NOTE)	
17	1-00-23-01	WASHER (SEE NOTE)	
18	1-00-24-01	WASHER (SEE NOTE)	
19	1-00-25-01	WASHER (SEE NOTE)	
20	1-00-26-01	WASHER (SEE NOTE)	
21	1-00-27-01	WASHER (SEE NOTE)	
22	1-00-28-01	WASHER (SEE NOTE)	
23	1-00-29-01	WASHER (SEE NOTE)	
24	1-00-30-01	WASHER (SEE NOTE)	
25	1-00-31-01	WASHER (SEE NOTE)	
26	1-00-32-01	WASHER (SEE NOTE)	
27	1-00-33-01	WASHER (SEE NOTE)	
28	1-00-34-01	WASHER (SEE NOTE)	
29	1-00-35-01	WASHER (SEE NOTE)	
30	1-00-36-01	WASHER (SEE NOTE)	
31	1-00-37-01	WASHER (SEE NOTE)	
32	1-00-38-01	WASHER (SEE NOTE)	
33	1-00-39-01	WASHER (SEE NOTE)	
34	1-00-40-01	WASHER (SEE NOTE)	
35	1-00-41-01	WASHER (SEE NOTE)	
36	1-00-42-01	WASHER (SEE NOTE)	
37	1-00-43-01	WASHER (SEE NOTE)	
38	1-00-44-01	WASHER (SEE NOTE)	
39	1-00-45-01	WASHER (SEE NOTE)	
40	1-00-46-01	WASHER (SEE NOTE)	
41	1-00-47-01	WASHER (SEE NOTE)	
42	1-00-48-01	WASHER (SEE NOTE)	
43	1-00-49-01	WASHER (SEE NOTE)	
44	1-00-50-01	WASHER (SEE NOTE)	
45	1-00-51-01	WASHER (SEE NOTE)	
46	1-00-52-01	WASHER (SEE NOTE)	
47	1-00-53-01	WASHER (SEE NOTE)	
48	1-00-54-01	WASHER (SEE NOTE)	
49	1-00-55-01	WASHER (SEE NOTE)	
50	1-00-56-01	WASHER (SEE NOTE)	
51	1-00-57-01	WASHER (SEE NOTE)	
52	1-00-58-01	WASHER (SEE NOTE)	
53	1-00-59-01	WASHER (SEE NOTE)	
54	1-00-60-01	WASHER (SEE NOTE)	
55	1-00-61-01	WASHER (SEE NOTE)	
56	1-00-62-01	WASHER (SEE NOTE)	
57	1-00-63-01	WASHER (SEE NOTE)	
58	1-00-64-01	WASHER (SEE NOTE)	
59	1-00-65-01	WASHER (SEE NOTE)	
60	1-00-66-01	WASHER (SEE NOTE)	
61	1-00-67-01	WASHER (SEE NOTE)	
62	1-00-68-01	WASHER (SEE NOTE)	
63	1-00-69-01	WASHER (SEE NOTE)	
64	1-00-70-01	WASHER (SEE NOTE)	
65	1-00-71-01	WASHER (SEE NOTE)	
66	1-00-72-01	WASHER (SEE NOTE)	
67	1-00-73-01	WASHER (SEE NOTE)	
68	1-00-74-01	WASHER (SEE NOTE)	
69	1-00-75-01	WASHER (SEE NOTE)	
70	1-00-76-01	WASHER (SEE NOTE)	
71	1-00-77-01	WASHER (SEE NOTE)	
72	1-00-78-01	WASHER (SEE NOTE)	
73	1-00-79-01	WASHER (SEE NOTE)	
74	1-00-80-01	WASHER (SEE NOTE)	
75	1-00-81-01	WASHER (SEE NOTE)	
76	1-00-82-01	WASHER (SEE NOTE)	
77	1-00-83-01	WASHER (SEE NOTE)	
78	1-00-84-01	WASHER (SEE NOTE)	
79	1-00-85-01	WASHER (SEE NOTE)	
80	1-00-86-01	WASHER (SEE NOTE)	
81	1-00-87-01	WASHER (SEE NOTE)	
82	1-00-88-01	WASHER (SEE NOTE)	

Call No.	Part No.	Description	Mount
79	1-00-89-01	WASHER (SEE NOTE)	
80	1-00-90-01	WASHER (SEE NOTE)	
81	1-00-91-01	WASHER (SEE NOTE)	
82	1-00-92-01	WASHER (SEE NOTE)	
83	1-00-93-01	WASHER (SEE NOTE)	
84	1-00-94-01	WASHER (SEE NOTE)	
85	1-00-95-01	WASHER (SEE NOTE)	
86	1-00-96-01	WASHER (SEE NOTE)	
87	1-00-97-01	WASHER (SEE NOTE)	
88	1-00-98-01	WASHER (SEE NOTE)	
89	1-00-99-01	WASHER (SEE NOTE)	
90	1-00-100-01	WASHER (SEE NOTE)	
91	1-00-101-01	WASHER (SEE NOTE)	
92	1-00-102-01	WASHER (SEE NOTE)	
93	1-00-103-01	WASHER (SEE NOTE)	
94	1-00-104-01	WASHER (SEE NOTE)	
95	1-00-105-01	WASHER (SEE NOTE)	
96	1-00-106-01	WASHER (SEE NOTE)	
97	1-00-107-01	WASHER (SEE NOTE)	
98	1-00-108-01	WASHER (SEE NOTE)	
99	1-00-109-01	WASHER (SEE NOTE)	
100	1-00-110-01	WASHER (SEE NOTE)	
101	1-00-111-01	WASHER (SEE NOTE)	
102	1-00-112-01	WASHER (SEE NOTE)	
103	1-00-113-01	WASHER (SEE NOTE)	
104	1-00-114-01	WASHER (SEE NOTE)	
105	1-00-115-01	WASHER (SEE NOTE)	
106	1-00-116-01	WASHER (SEE NOTE)	
107	1-00-117-01	WASHER (SEE NOTE)	
108	1-00-118-01	WASHER (SEE NOTE)	
109	1-00-119-01	WASHER (SEE NOTE)	
110	1-00-120-01	WASHER (SEE NOTE)	
111	1-00-121-01	WASHER (SEE NOTE)	
112	1-00-122-01	WASHER (SEE NOTE)	
113	1-00-123-01	WASHER (SEE NOTE)	
114	1-00-124-01	WASHER (SEE NOTE)	
115	1-00-125-01	WASHER (SEE NOTE)	
116	1-00-126-01	WASHER (SEE NOTE)	
117	1-00-127-01	WASHER (SEE NOTE)	
118	1-00-128-01	WASHER (SEE NOTE)	
119	1-00-129-01	WASHER (SEE NOTE)	
120	1-00-130-01	WASHER (SEE NOTE)	



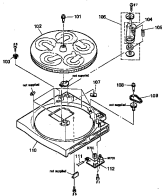
### 4-3. TRAY ASSEMBLY



Ref. No.	Part No.	Description	Remark
101	4-926-384-01	SCREW, STEP	
* 102	4-926-383-01	TABLE (B), DISK	
* 103	4-949-226-01	PLATE, LOCK	
* 104	4-930-506-02	BRACKET (PRESS PULLEY)	
105	4-926-395-01	SPRING, COMPRESSION	
* 106	1-452-538-11	MAGNET	
* 107	4-926-388-01	BRACKET (ADJUSTMENT)	
108	4-923-597-01	SCREW, STEP	

Ref. No.	Part No.	Description	Remark
109	4-926-399-01	BELT	
110	4-951-106-01	TABLE (A), DISK (UK, E, AEP:GRAY)	
110	4-951-106-11	TABLE (A), DISK (US, AEP:BLACK)	
111	1-590-849-11	WIRE, FLAT TYPE (5 CORE)	
* 112	1-638-729-11	TABLE MOTOR BOARD	
D701	8-719-970-19	DIODE GP1A521	
M701	A-4604-585-A	MOTOR ASSY, ROTARY	

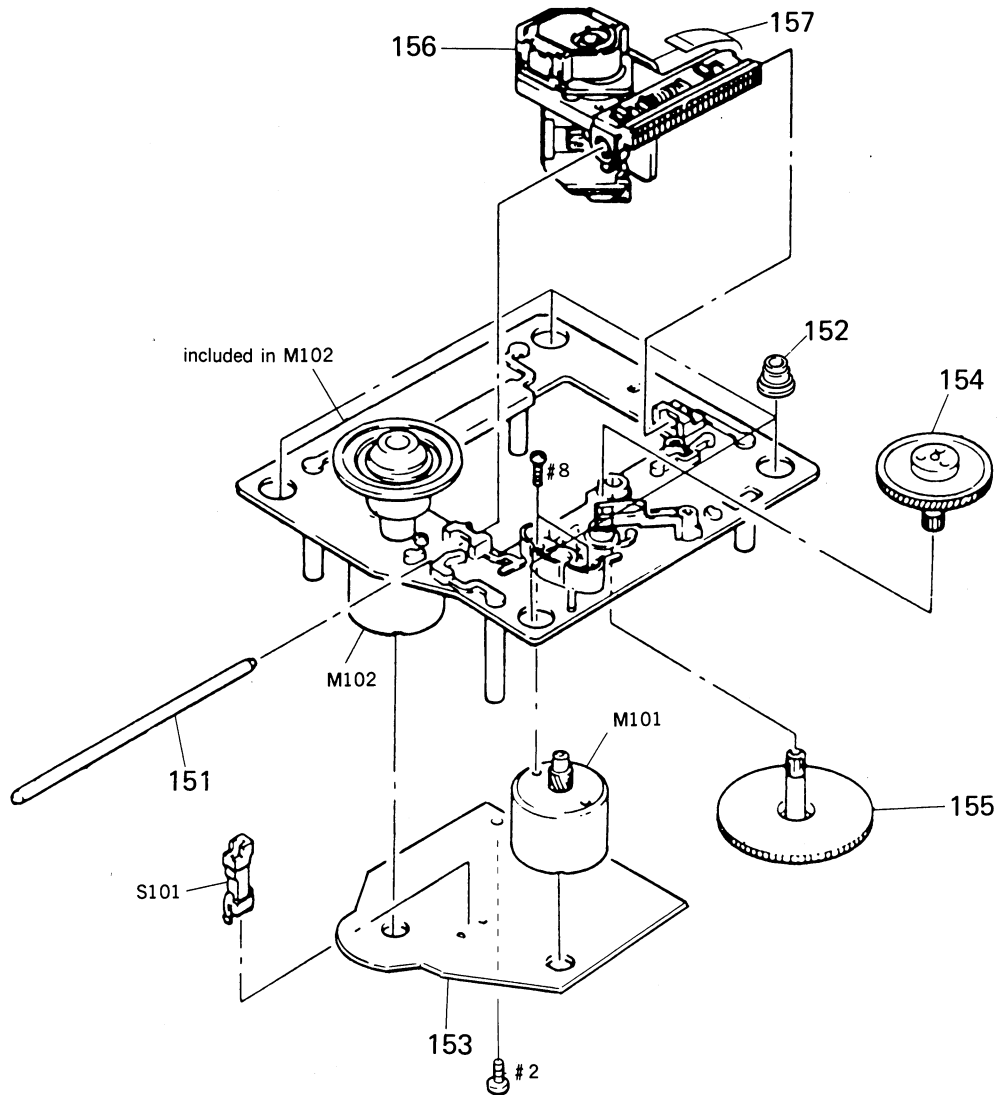
#### 4-3. TEST ASSEMBLY



Part No.	Part No.	Description	Quantity
100	4-100-00-01	BASE, STD	1
101	4-100-00-01	SHAFT, 1/8" DIA.	1
102	4-100-00-01	PLATE, STD	1
103	4-100-00-01	WASHER, 1/8" DIA.	1
104	4-100-00-01	WASHER, 1/8" DIA.	1
105	4-100-00-01	WASHER, 1/8" DIA.	1
106	4-100-00-01	WASHER, 1/8" DIA.	1
107	4-100-00-01	WASHER, 1/8" DIA.	1
108	4-100-00-01	WASHER, 1/8" DIA.	1
109	4-100-00-01	WASHER, 1/8" DIA.	1
110	4-100-00-01	WASHER, 1/8" DIA.	1
111	4-100-00-01	WASHER, 1/8" DIA.	1

Part No.	Part No.	Description	Quantity
101	4-100-00-01	WASHER, 1/8" DIA.	1
102	4-100-00-01	WASHER, 1/8" DIA.	1
103	4-100-00-01	WASHER, 1/8" DIA.	1
104	4-100-00-01	WASHER, 1/8" DIA.	1
105	4-100-00-01	WASHER, 1/8" DIA.	1
106	4-100-00-01	WASHER, 1/8" DIA.	1
107	4-100-00-01	WASHER, 1/8" DIA.	1
108	4-100-00-01	WASHER, 1/8" DIA.	1
109	4-100-00-01	WASHER, 1/8" DIA.	1
110	4-100-00-01	WASHER, 1/8" DIA.	1
111	4-100-00-01	WASHER, 1/8" DIA.	1

#### 4-4. OPTICAL PICK-UP BLOCK (BU-5BD8B)

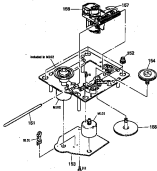


**Note:** The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
151	4-917-565-01	SHAFT, SLED	
* 152	4-951-940-01	INSULATOR (BU)	
* 153	A-4649-199-A	BD BOARD, COMPLETE	
154	4-917-567-01	GEAR (M)	
155	4-917-564-01	GEAR (P), FLATNESS	

Ref. No.	Part No.	Description	Remark
$\triangle$ 156	8-848-144-11	DEVICE, OPTICAL KSS-240A	
157	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
M101	X-4917-504-1	MOTOR ASSY, SLED	
M102	X-4917-523-3	MOTOR ASSY, SPINDLE	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	

#### 4.4. OPTICAL PICKUP BLOCK (9A-00000)



Note: The components identified by a cross (X) in this list are listed in the parts list for the optical pickup and are not included in this list.

Ref. No.	Part No.	Description	Notes	Ref. No.	Part No.	Description	Notes
100	4-01-00-01	LENS, 0.50		104	4-01-00-01	LENS, 0.50	
101	4-01-00-02	LENS, 0.50		105	4-01-00-02	LENS, 0.50	
102	4-01-00-03	LENS, 0.50		106	4-01-00-03	LENS, 0.50	
103	4-01-00-04	LENS, 0.50		107	4-01-00-04	LENS, 0.50	
104	4-01-00-05	LENS, 0.50		108	4-01-00-05	LENS, 0.50	
105	4-01-00-06	LENS, 0.50		109	4-01-00-06	LENS, 0.50	
106	4-01-00-07	LENS, 0.50		110	4-01-00-07	LENS, 0.50	
107	4-01-00-08	LENS, 0.50		111	4-01-00-08	LENS, 0.50	
108	4-01-00-09	LENS, 0.50		112	4-01-00-09	LENS, 0.50	
109	4-01-00-10	LENS, 0.50		113	4-01-00-10	LENS, 0.50	
110	4-01-00-11	LENS, 0.50		114	4-01-00-11	LENS, 0.50	
111	4-01-00-12	LENS, 0.50		115	4-01-00-12	LENS, 0.50	
112	4-01-00-13	LENS, 0.50		116	4-01-00-13	LENS, 0.50	
113	4-01-00-14	LENS, 0.50		117	4-01-00-14	LENS, 0.50	
114	4-01-00-15	LENS, 0.50		118	4-01-00-15	LENS, 0.50	
115	4-01-00-16	LENS, 0.50		119	4-01-00-16	LENS, 0.50	
116	4-01-00-17	LENS, 0.50		120	4-01-00-17	LENS, 0.50	
117	4-01-00-18	LENS, 0.50					
118	4-01-00-19	LENS, 0.50					
119	4-01-00-20	LENS, 0.50					
120	4-01-00-21	LENS, 0.50					

## SECTION 5 ELECTRICAL PARTS LIST

**BD**   **DISPLAY**  
**PUSH SW**   **SW**

**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.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS  
All resistors are in ohms.  
METAL: Metal-film resistor.  
METAL OXIDE: Metal oxide-film resistor.  
F: nonflammable

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA ..:  $\mu$ A.   uPA..:  $\mu$ PA.  
uPB..:  $\mu$ PB.   uPC..:  $\mu$ PC.   uPD..:  $\mu$ PD.
- CAPACITORS  
uF:  $\mu$ F
- COILS  
uH:  $\mu$ H

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

When indicating parts by reference number, please include the board.

● AUS: Australian model

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-4649-199-A	BD BOARD, COMPLETE *****					
		< CAPACITOR >					
C101	1-163-005-11	CERAMIC CHIP   470PF	10%   50V	R112	1-216-049-00	METAL CHIP   1K   5%	1/10W
C102	1-163-038-00	CERAMIC CHIP   0.1uF	25V	R113	1-216-077-00	METAL CHIP   15K   5%	1/10W
C103	1-163-005-11	CERAMIC CHIP   470PF	10%   50V	R114	1-216-077-00	METAL CHIP   15K   5%	1/10W
C104	1-164-505-11	CERAMIC CHIP   2.2uF	16V	R117	1-216-077-00	METAL CHIP   15K   5%	1/10W
C105	1-135-155-21	TANTALUM CHIP   4.7uF	10%   16V	R118	1-216-077-00	METAL CHIP   15K   5%	1/10W
C106	1-164-346-11	CERAMIC CHIP   1uF	16V	R121	1-216-077-00	METAL CHIP   15K   5%	1/10W
C107	1-164-505-11	CERAMIC CHIP   2.2uF	16V	R122	1-216-077-00	METAL CHIP   15K   5%	1/10W
C108	1-164-346-11	CERAMIC CHIP   1uF	16V	R151	1-216-070-00	METAL CHIP   7.5K   5%	1/10W
C112	1-163-038-00	CERAMIC CHIP   0.1uF	25V	R152	1-216-070-00	METAL CHIP   7.5K   5%	1/10W
C151	1-163-007-11	CERAMIC CHIP   680PF	10%   50V	R153	1-216-070-00	METAL CHIP   7.5K   5%	1/10W
C152	1-163-007-11	CERAMIC CHIP   680PF	10%   50V	R154	1-216-070-00	METAL CHIP   7.5K   5%	1/10W
C153	1-163-038-00	CERAMIC CHIP   0.1uF	25V	R155	1-216-070-00	METAL CHIP   7.5K   5%	1/10W
C154	1-164-336-11	CERAMIC CHIP   0.33uF	25V	R156	1-216-070-00	METAL CHIP   7.5K   5%	1/10W
C155	1-163-007-11	CERAMIC CHIP   680PF	10%   50V	R157	1-216-085-00	METAL CHIP   33K   5%	1/10W
C156	1-163-007-11	CERAMIC CHIP   680PF	10%   50V	R158	1-216-076-00	METAL CHIP   13K   5%	1/10W
C157	1-163-037-11	CERAMIC CHIP   0.022uF	10%   25V	R159	1-216-085-00	METAL CHIP   33K   5%	1/10W
C158	1-163-037-11	CERAMIC CHIP   0.022uF	10%   25V	R160	1-216-081-00	METAL CHIP   22K   5%	1/10W
C159	1-163-023-00	CERAMIC CHIP   0.015uF	5%   50V	R161	1-216-093-00	METAL CHIP   68K   5%	1/10W
C160	1-163-019-00	CERAMIC CHIP   0.0068uF	10%   50V	R162	1-216-085-00	METAL CHIP   33K   5%	1/10W
C181	1-163-038-00	CERAMIC CHIP   0.1uF	25V	R163	1-216-308-00	METAL CHIP   4.7   5%	1/10W
		< CONNECTOR >					
CN101	1-568-861-11	SOCKET, CONNECTOR 18P					
CN102	1-568-795-11	SOCKET, CONNECTOR 12P					
		< IC >					
IC101	8-752-344-48	IC   CXD2501Q					
IC102	8-759-071-79	IC   BA6297AFP					
		< RESISTOR >					
R101	1-216-077-00	METAL CHIP   15K   5%	1/10W				
R102	1-216-097-00	METAL CHIP   100K   5%	1/10W				
R103	1-216-077-00	METAL CHIP   15K   5%	1/10W				
R104	1-216-085-00	METAL CHIP   33K   5%	1/10W				
R105	1-216-097-00	METAL CHIP   100K   5%	1/10W				
		< SWITCH >					
S101	1-572-085-11	SWITCH, LEAF (LIMIT)					
		*****					
*	1-643-530-11	DISPLAY BOARD *****					
*	1-643-531-11	PUSH SW BOARD *****					
*	1-643-529-11	SW BOARD *****					
		< CONNECTOR >					
* CN601	1-691-901-11	SOCKET, CONNECTOR (L TYPE) 33P					
* CN602	1-691-889-11	SOCKET, CONNECTOR (L TYPE) 11P					
* CN703	1-568-944-11	PIN, CONNECTOR 6P					
		< FLUORESCENT INDICATOR >					
FL601	1-519-721-11	INDICATOR TUBE, FLUORESCENT					



DISPLAY PUSH SW SW LOADING MOTOR

OPEN/UP SW TABLE MOTOR MAIN

Ref. No.	Part No.	Description	Remark
		< IC >	
IC601	8-741-100-48	IC SBX1610-59	
		< RESISTOR >	
R601	1-249-427-11	CARBON 6.8K 5%	1/4W
R602	1-249-422-11	CARBON 2.7K 5%	1/4W
R603	1-249-424-11	CARBON 3.9K 5%	1/4W
R701	1-249-427-11	CARBON 6.8K 5%	1/4W
R702	1-249-432-11	CARBON 18K 5%	1/4W
R703	1-249-424-11	CARBON 3.9K 5%	1/4W
R704	1-249-422-11	CARBON 2.7K 5%	1/4W
R705	1-249-427-11	CARBON 6.8K 5%	1/4W
R706	1-249-424-11	CARBON 3.9K 5%	1/4W
R707	1-249-422-11	CARBON 2.7K 5%	1/4W
R708	1-249-422-11	CARBON 2.7K 5%	1/4W
R709	1-249-422-11	CARBON 2.7K 5%	1/4W
R710	1-249-424-11	CARBON 3.9K 5%	1/4W
R711	1-249-427-11	CARBON 6.8K 5%	1/4W
R712	1-249-422-11	CARBON 2.7K 5%	1/4W
R713	1-249-424-11	CARBON 3.9K 5%	1/4W
R714	1-249-427-11	CARBON 6.8K 5%	1/4W
R715	1-249-432-11	CARBON 18K 5%	1/4W
R716	1-249-432-11	CARBON 18K 5%	1/4W
		< SWITCH >	
SW601	1-572-714-11	SWITCH, PUSH (POWER)	
SW604	1-554-303-21	SWITCH, TACTILE (TIME)	
SW605	1-554-303-21	SWITCH, TACTILE (FADER)	
SW606	1-554-303-21	SWITCH, TACTILE (EDIT/TIME)	
SW607	1-554-303-21	SWITCH, TACTILE (CHECK)	
SW608	1-554-303-21	SWITCH, TACTILE (CLEAR)	
SW702	1-554-303-21	SWITCH, TACTILE (DISC 1)	
SW703	1-554-303-21	SWITCH, TACTILE (DISC 2)	
SW704	1-554-303-21	SWITCH, TACTILE (DISC 3)	
SW705	1-554-303-21	SWITCH, TACTILE (DISC 4)	
SW706	1-554-303-21	SWITCH, TACTILE (DISC 5)	
SW707	1-554-303-21	SWITCH, TACTILE (CONTINUE)	
SW708	1-554-303-21	SWITCH, TACTILE (SHUFFLE)	
SW709	1-554-303-21	SWITCH, TACTILE (PROGRAM)	
SW710	1-554-303-21	SWITCH, TACTILE (REPEAT)	
SW711	1-554-303-21	SWITCH, TACTILE (MUSIC SCAN)	
SW712	1-554-303-21	SWITCH, TACTILE (PEAK SEARCH)	
SW713	1-554-303-21	SWITCH, TACTILE (>)	
SW714	1-554-303-21	SWITCH, TACTILE (  )	
SW715	1-554-303-21	SWITCH, TACTILE (■)	
SW716	1-554-303-21	SWITCH, TACTILE (K)	
SW717	1-554-303-21	SWITCH, TACTILE (▶)	
SW718	1-554-303-21	SWITCH, TACTILE (◀)	

Ref. No.	Part No.	Description	Remark
SW719	1-554-303-21	SWITCH, TACTILE (▶▶)	
SW720	1-554-303-21	SWITCH, TACTILE (DISC SKIP)	
SW721	1-554-303-21	SWITCH, TACTILE (△OPEN/CLOSE)	
*****			
*	1-638-730-11	LOADING MOTOR BOARD	
*****			
*	1-638-731-11	OPEN/UP SW BOARD	
*****			
*	1-638-729-11	TABLE MOTOR BOARD	
*****			
		< CAPACITOR >	
C704	1-161-375-00	CERAMIC 0.0022uF	20% 50V
C705	1-161-375-00	CERAMIC 0.0022uF	20% 50V
		< CONNECTOR >	
* CN705	1-573-383-11	PIN, CONNECTOR (PC BOARD) 2P	
* CN707	1-573-044-11	SOCKET, CONNECTOR 5P	
		< DIODE >	
D701	8-719-970-19	DIODE GP-1A521	
		< RESISTOR >	
R701	1-249-416-11	CARBON 820 5%	1/4W
		< SWITCH >	
S702	1-571-300-21	SWITCH, ROTARY (OPEN/UP)	
*****			
*	A-4649-212-A	MAIN BOARD, COMPLETE (US)	
*	A-4649-204-A	MAIN BOARD, COMPLETE (AEP, UK, AUS)	
*	A-4649-219-A	MAIN BOARD, COMPLETE (E)	
*****			
	7-682-548-04	SCREW +BVTT 3X8 (S)	
		< CAPACITOR >	
C201	1-124-572-11	ELECT 100uF	20% 63V
C202	1-126-059-11	ELECT 10uF	20% 50V
C203	1-124-360-11	ELECT 1000uF	20% 16V
C204	1-124-887-00	ELECT 3300uF	20% 16V
C205	1-126-163-11	ELECT 4.7uF	20% 50V
C206	1-126-163-11	ELECT 4.7uF	20% 50V
C207	1-124-910-11	ELECT 47uF	20% 50V
C209	1-124-997-11	ELECT 470uF	20% 10V
C210	1-126-024-11	ELECT 220uF	20% 16V
C221	1-161-494-00	CERAMIC 0.022uF	25V
C230	1-126-049-11	ELECT 22uF	20% 25V
C231	1-124-994-11	ELECT 100uF	20% 10V

**DISPLAY**   **PUSH SW**   **SW**   **LOADING MOTOR**
**OPEN/UP SW**   **TABLE MOTOR**   **MAIN**
**Part No.**   **Part No.**   **Description**   **Q'ty**
**1 (1)**
**9999 1-03-01-02**   **SWITCH**
**1 (2)**

9999 1-03-01-10	SWITCH	1.00	00	1.00
9999 1-03-01-15	SWITCH	1.70	00	1.70
9999 1-03-01-16	SWITCH	1.00	00	1.00
9999 1-03-01-17	SWITCH	0.80	00	0.80
9999 1-03-01-18	SWITCH	1.00	00	1.00

9999 1-03-01-19	SWITCH	1.00	00	1.00
9999 1-03-01-20	SWITCH	1.70	00	1.70
9999 1-03-01-21	SWITCH	0.80	00	0.80
9999 1-03-01-22	SWITCH	0.80	00	0.80
9999 1-03-01-23	SWITCH	1.70	00	1.70

9999 1-03-01-24	SWITCH	1.70	00	1.70
9999 1-03-01-25	SWITCH	1.70	00	1.70
9999 1-03-01-26	SWITCH	0.80	00	0.80
9999 1-03-01-27	SWITCH	0.80	00	0.80
9999 1-03-01-28	SWITCH	1.70	00	1.70

9999 1-03-01-29	SWITCH	1.00	00	1.00
9999 1-03-01-30	SWITCH	0.80	00	0.80
9999 1-03-01-31	SWITCH	0.80	00	0.80
9999 1-03-01-32	SWITCH	0.80	00	0.80

**1 (3)**

9999 1-03-01-33	SWITCH	FOR (3)
9999 1-03-01-34	SWITCH	FOR (3)
9999 1-03-01-35	SWITCH	FOR (3)
9999 1-03-01-36	SWITCH	FOR (3)
9999 1-03-01-37	SWITCH	FOR (3)

9999 1-03-01-38	SWITCH	FOR (3)
9999 1-03-01-39	SWITCH	FOR (3)
9999 1-03-01-40	SWITCH	FOR (3)
9999 1-03-01-41	SWITCH	FOR (3)
9999 1-03-01-42	SWITCH	FOR (3)

9999 1-03-01-43	SWITCH	FOR (3)
9999 1-03-01-44	SWITCH	FOR (3)
9999 1-03-01-45	SWITCH	FOR (3)
9999 1-03-01-46	SWITCH	FOR (3)
9999 1-03-01-47	SWITCH	FOR (3)
9999 1-03-01-48	SWITCH	FOR (3)

9999 1-03-01-49	SWITCH	FOR (3)
9999 1-03-01-50	SWITCH	FOR (3)
9999 1-03-01-51	SWITCH	FOR (3)
9999 1-03-01-52	SWITCH	FOR (3)
9999 1-03-01-53	SWITCH	FOR (3)

9999 1-03-01-54	SWITCH	FOR (3)
9999 1-03-01-55	SWITCH	FOR (3)
9999 1-03-01-56	SWITCH	FOR (3)

**Part No.**   **Part No.**   **Description**   **Q'ty**

9999 1-03-01-57	SWITCH	FOR (3)
9999 1-03-01-58	SWITCH	FOR (3)
9999 1-03-01-59	SWITCH	FOR (3)

**1 (4)**
**9999 1-03-01-60**   **SWITCH**
**9999 1-03-01-61**   **SWITCH**
**9999 1-03-01-62**   **SWITCH**
**1 (5)**

9999 1-03-01-63	SWITCH	1.00	00	1.00
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9999 1-03-01-64	SWITCH	1.00	00	1.00
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**1 (6)**

9999 1-03-01-65	SWITCH	1.70	00	1.70
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9999 1-03-01-66	SWITCH	0.80	00	0.80
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**1 (7)**

9999 1-03-01-67	SWITCH	1.70	00	1.70
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**1 (8)**

9999 1-03-01-68	SWITCH	0.80	00	0.80
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**1 (9)**

9999 1-03-01-69	SWITCH	1.00	00	1.00
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9999 1-03-01-70	SWITCH	FOR (3)
9999 1-03-01-71	SWITCH	FOR (3)
9999 1-03-01-72	SWITCH	FOR (3)

9999 1-03-01-73	SWITCH	FOR (3)
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**1 (10)**

9999 1-03-01-74	SWITCH	0.80	00	0.80
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9999 1-03-01-75	SWITCH	1.00	00	1.00
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9999 1-03-01-76	SWITCH	0.80	00	0.80
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9999 1-03-01-77	SWITCH	1.70	00	1.70
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9999 1-03-01-78	SWITCH	1.00	00	1.00
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9999 1-03-01-79	SWITCH	0.80	00	0.80
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9999 1-03-01-80	SWITCH	0.80	00	0.80
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9999 1-03-01-81	SWITCH	0.80	00	0.80
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9999 1-03-01-82	SWITCH	1.00	00	1.00
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9999 1-03-01-83	SWITCH	1.00	00	1.00
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9999 1-03-01-84	SWITCH	1.70	00	1.70
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9999 1-03-01-85	SWITCH	1.00	00	1.00
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9999 1-03-01-86	SWITCH	1.00	00	1.00
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Ref. No.	Part No.	Description		Remark	
C232	1-124-994-11	ELECT	100uF	20%	10V
C233	1-126-012-11	ELECT	470uF	20%	16V
C234	1-126-012-11	ELECT	470uF	20%	16V
C301	1-126-022-11	ELECT	47uF	20%	16V
C302	1-161-494-00	CERAMIC	0.022uF		25V
C303	1-161-494-00	CERAMIC	0.022uF		25V
C304	1-164-159-11	CERAMIC	0.1uF		50V
C311	1-136-161-00	FILM	0.047uF	5%	50V
C312	1-161-374-11	CERAMIC	0.0015uF	20%	50V
C313	1-161-494-00	CERAMIC	0.022uF		25V
C314	1-162-306-11	CERAMIC	0.01uF	20%	16V
C315	1-126-300-11	ELECT	0.47uF	20%	50V
C316	1-161-494-00	CERAMIC	0.022uF		25V
C319	1-162-282-31	CERAMIC	100PF	10%	50V
C320	1-130-483-00	MYLAR	0.01uF	5%	50V
C322	1-164-159-11	CERAMIC	0.1uF		50V
C331	1-162-208-31	CERAMIC	24PF	5%	50V
C336	1-126-022-11	ELECT	47uF	20%	16V
C337	1-161-494-00	CERAMIC	0.022uF		25V
C342	1-126-022-11	ELECT	47uF	20%	16V
C343	1-161-494-00	CERAMIC	0.022uF		25V
C349	1-161-494-00	CERAMIC	0.022uF		25V
C350	1-126-022-11	ELECT	47uF	20%	16V
C351	1-161-494-00	CERAMIC	0.022uF		25V
C353	1-162-205-31	CERAMIC	18PF	5%	50V
C354	1-162-205-31	CERAMIC	18PF	5%	50V
C355	1-161-494-00	CERAMIC	0.022uF		25V
C356	1-126-022-11	ELECT	47uF	20%	16V
C357	1-124-997-11	ELECT	470uF	20%	10V
C358	1-161-494-00	CERAMIC	0.022uF		25V
C361	1-162-280-31	CERAMIC	82PF	10%	50V
C363	1-162-213-31	CERAMIC	39PF	5%	50V
C364	1-162-213-31	CERAMIC	39PF	5%	50V
C365	1-162-213-31	CERAMIC	39PF	5%	50V
C366	1-162-213-31	CERAMIC	39PF	5%	50V
C367	1-162-280-31	CERAMIC	82PF	10%	50V
C371	1-130-479-00	MYLAR	0.0047uF	5%	50V
C372	1-130-479-00	MYLAR	0.0047uF	5%	50V
C373	1-130-472-00	MYLAR	0.0012uF	5%	50V
C374	1-130-472-00	MYLAR	0.0012uF	5%	50V
C375	1-124-994-11	ELECT	100uF	20%	10V
C376	1-124-994-11	ELECT	100uF	20%	10V
C377	1-124-994-11	ELECT	100uF	20%	10V
C378	1-124-994-11	ELECT	100uF	20%	10V
C379	1-130-473-00	MYLAR	0.0015uF	5%	50V
C380	1-130-473-00	MYLAR	0.0015uF	5%	50V
C384	1-126-022-11	ELECT	47uF	20%	16V
C385	1-126-022-11	ELECT	47uF	20%	16V
C390	1-161-494-00	CERAMIC	0.022uF		25V

Ref. No.	Part No.	Description		Remark	
C391	1-124-997-11	ELECT	470uF	20%	10V
C392	1-164-159-11	CERAMIC	0.1uF		50V
C393	1-164-159-11	CERAMIC	0.1uF		50V
C394	1-164-159-11	CERAMIC	0.1uF		50V
C401	1-126-022-11	ELECT	47uF	20%	16V
C402	1-161-494-00	CERAMIC	0.022uF		25V
C403	1-126-023-11	ELECT	100uF	20%	16V
C404	1-126-023-11	ELECT	100uF	20%	16V
C408	1-164-159-11	CERAMIC	0.1uF		50V
C409	1-164-159-11	CERAMIC	0.1uF		50V
C414	1-161-494-00	CERAMIC	0.022uF		25V
C425	1-162-294-31	CERAMIC	0.001uF	10%	50V
C426	1-162-294-31	CERAMIC	0.001uF	10%	50V
C429	1-162-294-31	CERAMIC	0.001uF	10%	50V
C430	1-162-294-31	CERAMIC	0.001uF	10%	50V
C431	1-162-294-31	CERAMIC	0.001uF	10%	50V
C432	1-162-294-31	CERAMIC	0.001uF	10%	50V
< CONNECTOR >					
* CN201	1-573-047-11	PIN, CONNECTOR (PC BOARD) 2P			
* CN301	1-691-895-11	SOCKET, CONNECTOR (L TYPE) 18P			
* CN401	1-691-901-11	SOCKET, CONNECTOR (L TYPE) 33P			
CN402	1-691-889-11	SOCKET, CONNECTOR (L TYPE) 11P			
* CN403	1-568-824-11	SOCKET, CONNECTOR 5P			
* CN404	1-568-943-11	PIN, CONNECTOR 5P			
< DIODE >					
D201	8-719-200-82	DIODE	11ES2		
D202	8-719-110-08	DIODE	RD8. 2ES-B2		
D203	8-719-200-82	DIODE	11ES2		
D204	8-719-200-82	DIODE	11ES2		
D205	8-719-200-82	DIODE	11ES2		
D206	8-719-200-82	DIODE	11ES2		
D207	8-719-200-82	DIODE	11ES2 (EXCEPT E)		
D208	8-719-200-82	DIODE	11ES2 (EXCEPT E)		
D385	8-719-987-63	DIODE	1N4148M		
< IC >					
IC201	8-759-633-42	IC	M5293L		
IC202	8-759-061-65	IC	LA5602		
IC204	8-759-604-86	IC	M5F7807L		
IC301	8-752-337-26	IC	CXD2500AQ		
IC302	8-752-342-65	IC	CXD2560M		
IC303	8-752-351-19	IC	CXD2561BM		
IC306	8-759-061-66	IC	LA9215		
IC401	8-752-837-01	IC	CXP50116-287Q		
IC402	8-759-821-32	IC	CXA1291P		

Mat. No.	Part No.	Description	Quant	Units	Price
487	1-24-88-11	BUSH	1.000	EA	100
488	1-24-88-11	WASHER	1.000	EA	100
489	1-24-88-11	WASHER	1.000	EA	100
490	1-24-88-11	WASHER	1.000	EA	100
491	1-24-88-11	WASHER	1.000	EA	100
492	1-24-88-11	WASHER	1.000	EA	100
493	1-24-88-11	WASHER	1.000	EA	100
494	1-24-88-11	WASHER	1.000	EA	100
495	1-24-88-11	WASHER	1.000	EA	100
496	1-24-88-11	WASHER	1.000	EA	100
497	1-24-88-11	WASHER	1.000	EA	100
498	1-24-88-11	WASHER	1.000	EA	100
499	1-24-88-11	WASHER	1.000	EA	100
500	1-24-88-11	WASHER	1.000	EA	100
501	1-24-88-11	WASHER	1.000	EA	100
502	1-24-88-11	WASHER	1.000	EA	100
503	1-24-88-11	WASHER	1.000	EA	100
504	1-24-88-11	WASHER	1.000	EA	100
505	1-24-88-11	WASHER	1.000	EA	100
506	1-24-88-11	WASHER	1.000	EA	100
507	1-24-88-11	WASHER	1.000	EA	100
508	1-24-88-11	WASHER	1.000	EA	100
509	1-24-88-11	WASHER	1.000	EA	100
510	1-24-88-11	WASHER	1.000	EA	100
511	1-24-88-11	WASHER	1.000	EA	100
512	1-24-88-11	WASHER	1.000	EA	100
513	1-24-88-11	WASHER	1.000	EA	100
514	1-24-88-11	WASHER	1.000	EA	100
515	1-24-88-11	WASHER	1.000	EA	100
516	1-24-88-11	WASHER	1.000	EA	100
517	1-24-88-11	WASHER	1.000	EA	100
518	1-24-88-11	WASHER	1.000	EA	100
519	1-24-88-11	WASHER	1.000	EA	100
520	1-24-88-11	WASHER	1.000	EA	100

Mat. No.	Part No.	Description	Quant	Units	Price
521	1-24-88-11	BUSH	1.000	EA	100
522	1-24-88-11	WASHER	1.000	EA	100
523	1-24-88-11	WASHER	1.000	EA	100
524	1-24-88-11	WASHER	1.000	EA	100
525	1-24-88-11	WASHER	1.000	EA	100
526	1-24-88-11	WASHER	1.000	EA	100
527	1-24-88-11	WASHER	1.000	EA	100
528	1-24-88-11	WASHER	1.000	EA	100
529	1-24-88-11	WASHER	1.000	EA	100
530	1-24-88-11	WASHER	1.000	EA	100
531	1-24-88-11	WASHER	1.000	EA	100
532	1-24-88-11	WASHER	1.000	EA	100
533	1-24-88-11	WASHER	1.000	EA	100
534	1-24-88-11	WASHER	1.000	EA	100
535	1-24-88-11	WASHER	1.000	EA	100
536	1-24-88-11	WASHER	1.000	EA	100
537	1-24-88-11	WASHER	1.000	EA	100
538	1-24-88-11	WASHER	1.000	EA	100
539	1-24-88-11	WASHER	1.000	EA	100
540	1-24-88-11	WASHER	1.000	EA	100
541	1-24-88-11	WASHER	1.000	EA	100
542	1-24-88-11	WASHER	1.000	EA	100
543	1-24-88-11	WASHER	1.000	EA	100
544	1-24-88-11	WASHER	1.000	EA	100
545	1-24-88-11	WASHER	1.000	EA	100
546	1-24-88-11	WASHER	1.000	EA	100
547	1-24-88-11	WASHER	1.000	EA	100
548	1-24-88-11	WASHER	1.000	EA	100
549	1-24-88-11	WASHER	1.000	EA	100
550	1-24-88-11	WASHER	1.000	EA	100

(continued)

- 1-24-88-11 FUL. COMPLETE (IN PART) 1/
- 1-24-88-11 BUSH, COMPLETE 1, 1000 EA
- 1-24-88-11 WASHER, COMPLETE 1, 1000 EA
- 1-24-88-11 WASHER, COMPLETE 1, 1000 EA
- 1-24-88-11 WASHER, COMPLETE 1, 1000 EA

• 1-24-88-11 FUL. COMPLETE 1/

(cont)

551	1-24-88-11	WASHER	1.000	EA	100
552	1-24-88-11	WASHER	1.000	EA	100
553	1-24-88-11	WASHER	1.000	EA	100
554	1-24-88-11	WASHER	1.000	EA	100
555	1-24-88-11	WASHER	1.000	EA	100
556	1-24-88-11	WASHER	1.000	EA	100
557	1-24-88-11	WASHER	1.000	EA	100
558	1-24-88-11	WASHER	1.000	EA	100
559	1-24-88-11	WASHER	1.000	EA	100
560	1-24-88-11	WASHER	1.000	EA	100

(cont)

561	1-24-88-11	WASHER	1.000	EA	100
562	1-24-88-11	WASHER	1.000	EA	100
563	1-24-88-11	WASHER	1.000	EA	100
564	1-24-88-11	WASHER	1.000	EA	100
565	1-24-88-11	WASHER	1.000	EA	100
566	1-24-88-11	WASHER	1.000	EA	100
567	1-24-88-11	WASHER	1.000	EA	100
568	1-24-88-11	WASHER	1.000	EA	100
569	1-24-88-11	WASHER	1.000	EA	100
570	1-24-88-11	WASHER	1.000	EA	100

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< JACK >					
J501	1-569-442-11	JACK, PIN 2P (LINE OUT)		R351	1-249-436-11	CARBON 39K 5% 1/4W	
		< COIL >		R352	1-249-436-11	CARBON 39K 5% 1/4W	
L301	1-412-473-21	INDUCTOR 0uH		R353	1-249-436-11	CARBON 39K 5% 1/4W	
L302	1-412-473-21	INDUCTOR 0uH		R354	1-249-436-11	CARBON 39K 5% 1/4W	
L303	1-412-473-21	INDUCTOR 0uH		R355	1-249-436-11	CARBON 39K 5% 1/4W	
L305	1-412-473-21	INDUCTOR 0uH		R356	1-249-436-11	CARBON 39K 5% 1/4W	
L306	1-412-297-11	INDUCTOR 3. 3uH		R357	1-249-436-11	CARBON 39K 5% 1/4W	
L309	1-412-473-21	INDUCTOR 0uH		R358	1-249-436-11	CARBON 39K 5% 1/4W	
L310	1-412-473-21	INDUCTOR 0uH		R359	1-247-903-00	CARBON 1M 5% 1/4W	
L311	1-412-473-21	INDUCTOR 0uH		R361	1-249-431-11	CARBON 15K 5% 1/4W	
L331	1-412-297-11	INDUCTOR 3. 3uH		R362	1-249-431-11	CARBON 15K 5% 1/4W	
		< TRANSISTOR >		R363	1-249-431-11	CARBON 15K 5% 1/4W	
Q201	8-729-119-76	TRANSISTOR 2SA1175-HFE		R364	1-249-431-11	CARBON 15K 5% 1/4W	
Q302	8-729-900-80	TRANSISTOR DTC114ES		R365	1-249-438-11	CARBON 56K 5% 1/4W	
Q303	8-729-900-89	TRANSISTOR DTC144ES		R366	1-249-438-11	CARBON 56K 5% 1/4W	
Q304	8-729-900-61	TRANSISTOR DTA114ES		R367	1-249-438-11	CARBON 56K 5% 1/4W	
Q305	8-729-900-61	TRANSISTOR DTA114ES		R368	1-249-438-11	CARBON 56K 5% 1/4W	
Q401	8-729-900-89	TRANSISTOR DTC144ES		R369	1-249-419-11	CARBON 1. 5K 5% 1/4W	
		< RESISTOR >		R370	1-249-419-11	CARBON 1. 5K 5% 1/4W	
R201	1-249-435-11	CARBON 33K 5% 1/4W		R371	1-249-419-11	CARBON 1. 5K 5% 1/4W	
R202	1-249-438-11	CARBON 56K 5% 1/4W		R372	1-249-419-11	CARBON 1. 5K 5% 1/4W	
R203	1-249-429-11	CARBON 10K 5% 1/4W		R373	1-249-429-11	CARBON 10K 5% 1/4W	
R301	1-249-417-11	CARBON 1K 5% 1/4W		R374	1-249-429-11	CARBON 10K 5% 1/4W	
R302	1-249-417-11	CARBON 1K 5% 1/4W		R375	1-249-429-11	CARBON 10K 5% 1/4W	
R303	1-249-417-11	CARBON 1K 5% 1/4W		R376	1-249-429-11	CARBON 10K 5% 1/4W	
R304	1-249-417-11	CARBON 1K 5% 1/4W		R383	1-249-417-11	CARBON 1K 5% 1/4W	
R306	1-249-413-11	CARBON 470 5% 1/4W		R384	1-249-417-11	CARBON 1K 5% 1/4W	
R309	1-249-405-11	CARBON 100 5% 1/4W		R385	1-249-422-11	CARBON 2. 7K 5% 1/4W	
R311	1-249-423-11	CARBON 3. 3K 5% 1/4W		R401	1-249-433-11	CARBON 22K 5% 1/4W	
R312	1-249-429-11	CARBON 10K 5% 1/4W		R402	1-249-433-11	CARBON 22K 5% 1/4W	
R313	1-249-423-11	CARBON 3. 3K 5% 1/4W		R404	1-249-425-11	CARBON 4. 7K 5% 1/4W	
R314	1-249-429-11	CARBON 10K 5% 1/4W		R405	1-249-425-11	CARBON 4. 7K 5% 1/4W	
R315	1-249-417-11	CARBON 1K 5% 1/4W		R406	1-249-425-11	CARBON 4. 7K 5% 1/4W	
R316	1-249-417-11	CARBON 1K 5% 1/4W		R408	1-249-441-11	CARBON 100K 5% 1/4W	
R317	1-249-419-11	CARBON 1. 5K 5% 1/4W		R409	1-247-864-11	CARBON 24K 5% 1/4W	
R318	1-249-441-11	CARBON 100K 5% 1/4W		R410	1-247-880-11	CARBON 110K 5% 1/4W	
R319	1-247-903-00	CARBON 1M 5% 1/4W		R411	1-249-440-11	CARBON 82K 5% 1/4W	
R321	1-249-417-11	CARBON 1K 5% 1/4W		R412	1-247-876-11	CARBON 75K 5% 1/4W	
R322	1-249-417-11	CARBON 1K 5% 1/4W		R413	1-249-440-11	CARBON 82K 5% 1/4W	
R323	1-249-417-11	CARBON 1K 5% 1/4W		R414	1-247-874-11	CARBON 62K 5% 1/4W	
R324	1-249-417-11	CARBON 1K 5% 1/4W		R415	1-249-435-11	CARBON 33K 5% 1/4W	
R330	1-249-417-11	CARBON 1K 5% 1/4W		R416	1-247-878-00	CARBON 91K 5% 1/4W	
R331	1-249-417-11	CARBON 1K 5% 1/4W		R421	1-249-393-11	CARBON 10 5% 1/4W	
R342	1-249-417-11	CARBON 1K 5% 1/4W		R422	1-249-393-11	CARBON 10 5% 1/4W	
				R425	1-249-429-11	CARBON 10K 5% 1/4W	
				R426	1-249-429-11	CARBON 10K 5% 1/4W	
				R427	1-249-429-11	CARBON 10K 5% 1/4W	
				R428	1-249-429-11	CARBON 10K 5% 1/4W	
				R429	1-249-429-11	CARBON 10K 5% 1/4W	



**MAIN**

Ref. No.	Part No.	Description	Remark
R430	1-249-429-11	CARBON 10K 5%	1/4W
R431	1-249-429-11	CARBON 10K 5%	1/4W
R432	1-249-429-11	CARBON 10K 5%	1/4W
< SWITCH >			
△S201	1-571-722-11	SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR) (E)	
< VIBRATOR >			
X351	1-579-314-11	VIBRATOR, CRYSTAL (22.5MHz)	
*****			
MISCELLANEOUS			
*****			
9	1-690-848-21	WIRE (FLAT TYPE) (33 CORE)	
10	1-690-849-21	WIRE (FLAT TYPE) (11 CORE)	
64	1-694-003-11	JAMPER, FILM (WITH TARMINAL)	
△76	1-575-651-21	CORD, POWER (AEP)	
△77	1-575-653-21	CORD, POWER (E)	
△78	1-574-358-31	CORD, POWER (WITH CONNECTOR) (AUS)	
△79	1-558-946-21	CORD, POWER (UK)	
△80	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
△81	1-590-836-11	CORD, POWER (US)	
* 106	1-452-538-11	MAGNET	
111	1-590-849-11	WIRE, FLAT TYPE (5 CORE)	
△156	8-848-144-11	DEVICE, OPTICAL KSS-240A	
157	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
M101	X-4917-504-1	MOTOR ASSY, SLED	
M102	X-4917-523-3	MOTOR ASSY, SPINDLE	
M701	A-4604-585-A	MOTOR ASSY, ROTARY	
M702	A-4604-834-A	MOTOR ASSY, LOADING	
S701	1-572-713-11	SWITCH, PUSH (WITH CONNECTOR)	
△T901	1-449-955-11	TRANSFORMER, POWER (AEP, UK, AUS)	
△T901	1-449-956-11	TRANSFORMER, POWER (E)	
△T901	1-450-876-11	TRANSFORMER, POWER (US)	
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Ref. No.	Part No.	Description	Remark
ACCESSORIES & PACKING MATERIALS			
*****			
	1-558-271-11	CORD, CONNECTION (EXCEPT AUS)	
	1-558-271-11	CORD, CONNECTION (US)	
	3-754-847-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUSE) (EXCEPT US)	
	3-754-847-21	MANUAL, INSTRUCTION (ENGLISH) (US)	
	3-754-847-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP)	
*	4-951-269-01	INDIVIDUAL CARTON	
*	4-951-270-01	CUSHION (FRONT)	
*	4-951-273-01	CUSHION (REAR)	
	9-910-999-33	INSTRUCTION (US)	

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**HARDWARE LIST**  
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#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#2	7-685-134-19	SCREW +BTP 2. 6X8 TYPE2 N-S
#3	7-682-661-09	SCREW +PSW 4X8
#4	7-685-136-19	SCREW +P 2. 6X12 TYPE2 NON-SLIT
#5	7-685-647-79	SCREW, TAPPING
#6	7-682-548-04	SCREW +BVTT 3X8 (S)
#7	7-682-554-04	SCREW +B 3X25
#8	7-621-255-15	SCREW +P 2X3

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

MAIN

Part No.	Part No.	Description	Quantity	Unit	Remark
800	1-00-00-0	SHOCK	100	EA	1.0P
802	1-00-00-0	SHOCK	100	EA	1.0P
804	1-00-00-0	SHOCK	100	EA	1.0P

## CONTINUED

▲808	1-00-00-0	SHOCK, DOUBLE SHOCKING (DOUBLE SHOCKING) (5)			
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## CONTINUED

804	1-00-00-0	SHOCK, DOUBLE SHOCKING			
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## ENCLOSURE

8	1-00-00-0	SHOCK (ELECT TYPE) (2) SHOCK			
8	1-00-00-0	SHOCK (ELECT TYPE) (2) SHOCK			
8	1-00-00-0	SHOCK, FOR SHOCK CHARGING			
▲78	1-00-00-0	SHOCK, DOUBLE SHOCKING			
▲77	1-00-00-0	SHOCK, DOUBLE SHOCKING			

▲76	1-00-00-0	SHOCK, DOUBLE SHOCKING (SHOCK)			
▲74	1-00-00-0	SHOCK, DOUBLE SHOCKING			
▲73	1-00-00-0	SHOCK, DOUBLE SHOCKING			
▲72	1-00-00-0	SHOCK, DOUBLE SHOCKING			

8	1-00-00-0	SHOCK, ELECT TYPE (2) SHOCK			
▲70	1-00-00-0	SHOCK, DOUBLE SHOCKING			
8	1-00-00-0	SHOCK, ELECT TYPE (2) SHOCK			
▲6	1-00-00-0	SHOCK, DOUBLE SHOCKING			
▲5	1-00-00-0	SHOCK, DOUBLE SHOCKING			

▲7	1-00-00-0	SHOCK, DOUBLE SHOCKING			
▲6	1-00-00-0	SHOCK, DOUBLE SHOCKING			
▲5	1-00-00-0	SHOCK, DOUBLE SHOCKING			
▲4	1-00-00-0	SHOCK, DOUBLE SHOCKING			
▲3	1-00-00-0	SHOCK, DOUBLE SHOCKING			

▲2	1-00-00-0	SHOCK, DOUBLE SHOCKING			
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Part No.	Part No.	Description	Quantity
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## CONTINUED &amp; PARTIAL LISTINGS

1-00-00-0	SHOCK, DOUBLE SHOCKING (SHOCK)		
1-00-00-0	SHOCK, DOUBLE SHOCKING (SHOCK)		
1-00-00-0	SHOCK, DOUBLE SHOCKING (SHOCK)		
1-00-00-0	SHOCK, DOUBLE SHOCKING (SHOCK)		
1-00-00-0	SHOCK, DOUBLE SHOCKING (SHOCK)		

+	1-00-00-0	SHOCK, DOUBLE SHOCKING	
+	1-00-00-0	SHOCK, DOUBLE SHOCKING	
+	1-00-00-0	SHOCK, DOUBLE SHOCKING	
	1-00-00-0	SHOCK, DOUBLE SHOCKING	

## HANDPIECE LIST

81	1-00-00-0	SHOCK, DOUBLE SHOCKING	
82	1-00-00-0	SHOCK, DOUBLE SHOCKING	
83	1-00-00-0	SHOCK, DOUBLE SHOCKING	
84	1-00-00-0	SHOCK, DOUBLE SHOCKING	
85	1-00-00-0	SHOCK, DOUBLE SHOCKING	

86	1-00-00-0	SHOCK, DOUBLE SHOCKING	
87	1-00-00-0	SHOCK, DOUBLE SHOCKING	
88	1-00-00-0	SHOCK, DOUBLE SHOCKING	

The information shown here is for reference only. It is not intended for use in the design of any product. It is not intended for use in the design of any product. It is not intended for use in the design of any product.



