

CDP-M71

SERVICE MANUAL

*AEP Model
UK Model
E Model
Australian Model*



SPECIFICATIONS

Compact disc player

Frequency response	2 Hz – 20 kHz $\pm$ 0.5 dB
Signal-to-noise ratio	More than 108 dB
Dynamic range	More than 98 dB
Harmonic distortion	Less than 0.0027%
Channel separation	More than 100 dB

Outputs

LINE OUT (FIXED) (phono jacks)	Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms
LINE OUT (VARIABLE) (phono jacks)	Output level max. 2 V (at 50 kilohms) Load impedance over 50 kilohms
DIGITAL OUT (OPTICAL) (optical output connector)	Wave length 660 nm Output level -18 dBm
PHONES (stereo phone jack)	Output level max. 10 mW Load impedance 32 ohms

General

	CDP-M71
Power requirements	Model for Continental Europe 220 V – 230 V AC, 50/60 Hz Model for the United Kingdom 240 V AC, 50 Hz Model for Australia 240 V AC, 50Hz Model for other countries 110, 120, 220, or 240 V AC adjustable, 50/60 Hz
Power consumption	12 W
Dimensions (approx., including projections)	355 $\times$ 110 $\times$ 310 mm (w/h/d) (14 $\times$ 4 $\frac{1}{4}$ $\times$ 12 $\frac{1}{4}$ inches)
Weight (approx.)	3.5 kg (7 lbs 15 oz)

Supplied accessories

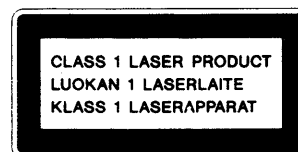
Audio cord	1 (2 phono plugs – 2 phono plugs)
Remote commander	1
R6 (AA) batteries	2
AC plug adaptor (for some areas)	1

Remote commander RM-D791

Remote control system	Infrared control
Power requirements	3 V DC with two R6 (size AA) batteries
Dimensions	Approx. 62 $\times$ 20 $\times$ 175 mm (w/h/d) (1 $\frac{1}{2}$ $\times$ 1 $\frac{1}{4}$ $\times$ 7 inches)
Weight	Approx. 130 g (4.6 oz) Including batteries

Design and specifications subject to change without notice.

Optional accessory
Optical cable POC-15



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

COMPACT DISC PLAYER
SONY®

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK Δ OR DOTTED LINE WITH MARK Δ 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.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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.

1. Laser Diode Properties
 - Material: GaAlAs
 - Wavelength: 780nm
 - Emission Duration: continuous
 - Laser Output: max.44.6 μ W*

* This output is the value measured at a distance of about 200mm from the objective lens surface on the Optical Pick-up Block.

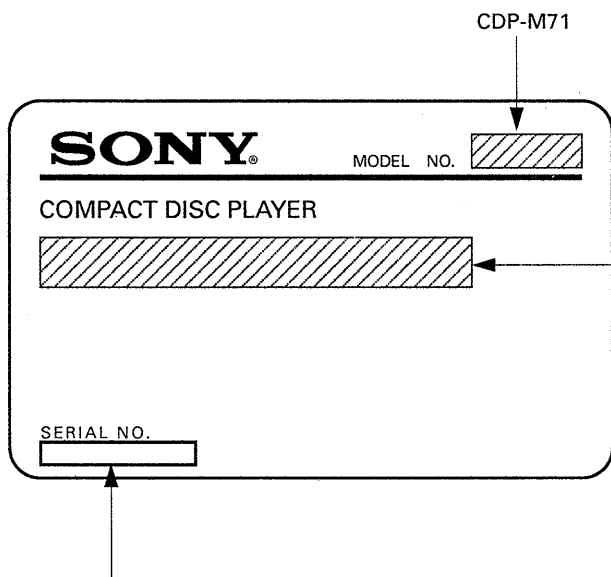
2. During service, do not take the Optical Pick-up Block apart, and do not adjust the APC circuit. If there is a breakdown in the APC circuit (including laser diode), replace the entire Optical Pick-up Block (including APC board).

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MODEL IDENTIFICATION

- SPECIFICATION LABEL -



AEP MODEL : AC220, 50/60Hz
UK, Australian MODEL : AC240V, 50/60Hz
E, Saudi Arabian MODEL : AC110-120, 220-240V, 50/60Hz, 14W

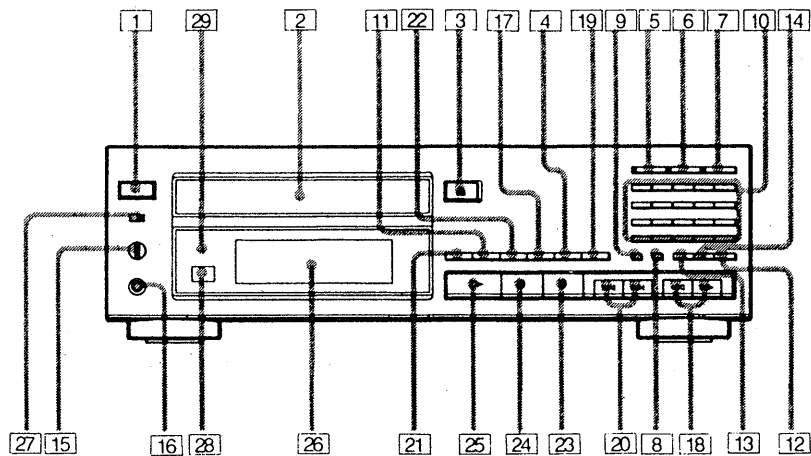
MADE IN JAPAN : Japan Made Model
MADE IN FRANCE : France Made Model

SECTION 1

GENERAL

1-1. LOCATION OF CONTROLS

This section is extracted from instruction manual.



- 1 POWER switch
- 2 Disc tray
- 3 ▲ OPEN/CLOSE button
- 4 PEAK SEARCH button
- 5 CONTINUE button and indicator
- 6 SHUFFLE button and indicator
- 7 PROGRAM button and indicator
- 8 TIME SET button
- 9 EDIT/TIME FADE button
- 10 Numeric buttons
- 11 REPEAT button
- 12 >20 (over 20) button
- 13 CHECK (program check) button
- 14 CLEAR (program clear) button
- 15 LINE OUT/PHONE LEVEL control
- 16 PHONES jack
- 17 MUSIC SCAN button
- 18 ◀▶▶▶ (manual search) buttons
- 19 FADER button
- 20 ◀◀▶▶ (AMS*) buttons
- 21 TIME button
- 22 A.SPACE (auto space)/A.CUE (auto cue) button
- 23 ■ (stop) button
- 24 || (pause) button
- 25 ▶ (play) button
- 26 Display window
- 27 TIMER switch
- 28 Remote sensor
- 29 Auto cue indicator

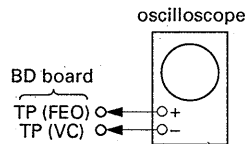
* AMS is an abbreviation of Automatic Music Sensor.

SECTION 2

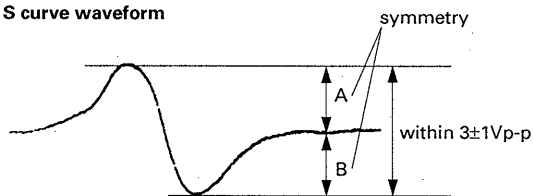
ELECTRICAL BLOCK CHECKING

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 :**

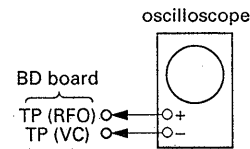
1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical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

S curve waveform

5. After check, remove the lead wire connected in step 2.

Note :

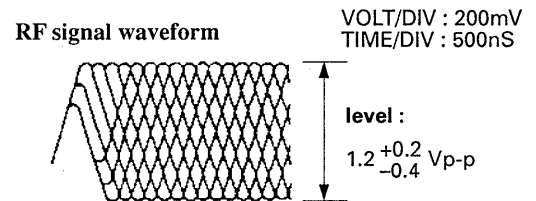
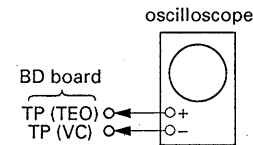
- Try to measure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.
- Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check**Procedure :**

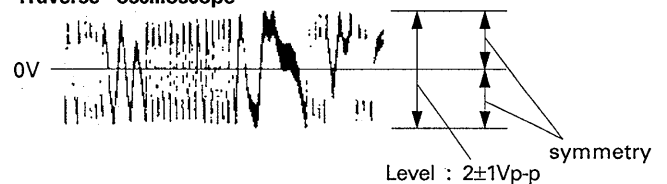
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

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.

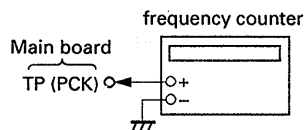
Traverse oscilloscope

6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

1. Connect frequency counter to test point (PCK) with lead wire.



2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

Focus/Tracking Gain

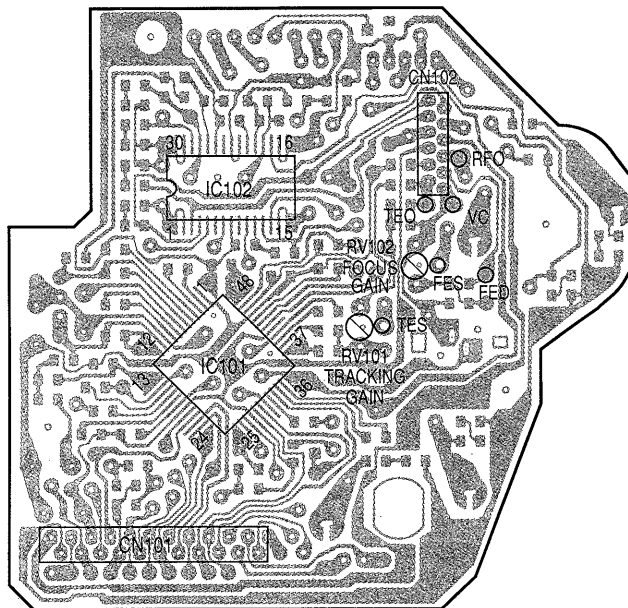
This gain has a margin, so even if it is slightly off.

There is no problem.

Therefore, do not perform, this adjustment.

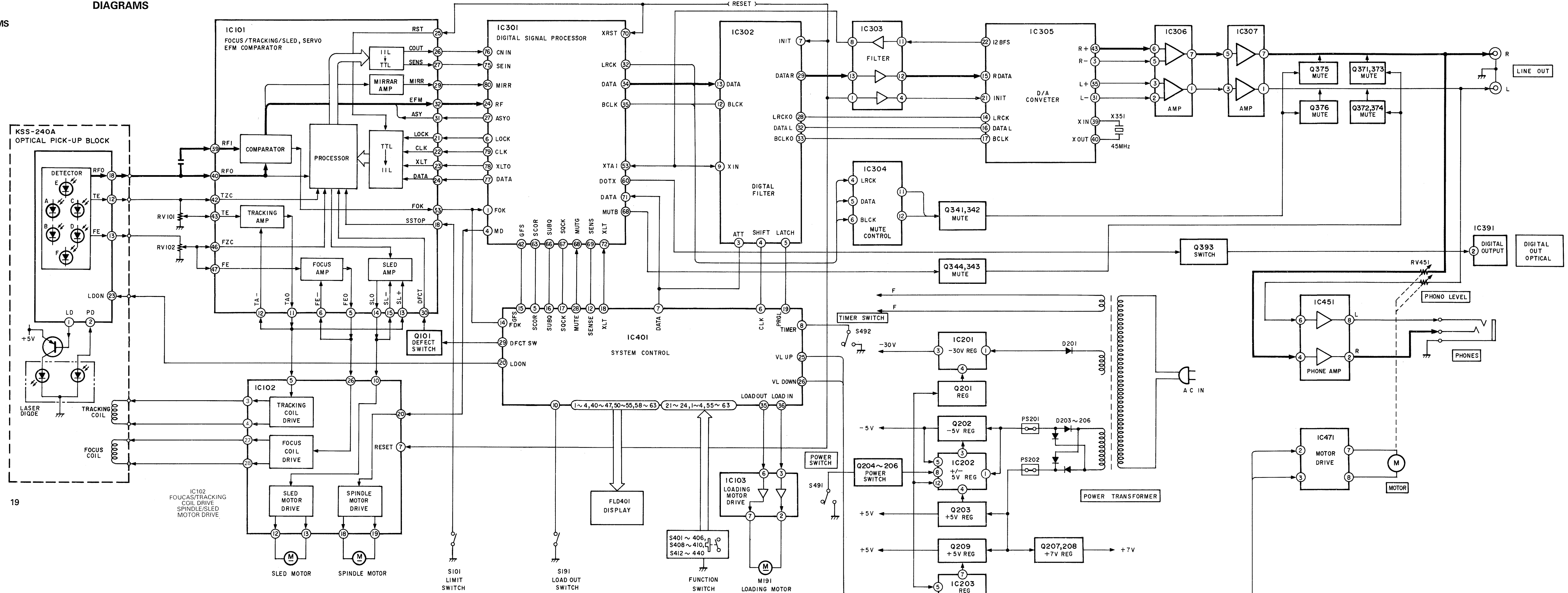
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

[BD BOARD] – Component Side –

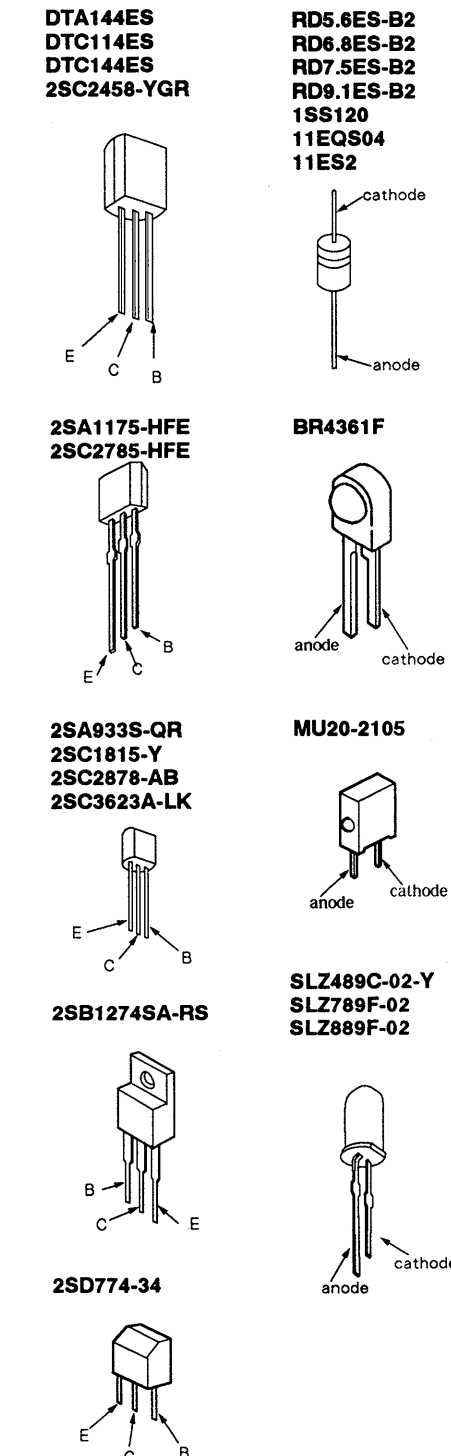


3-1. BLOCK DIAGRAMS

SECTION 3 DIAGRAMS



3-2. SEMICONDUCTOR LEAD LAYOUTS



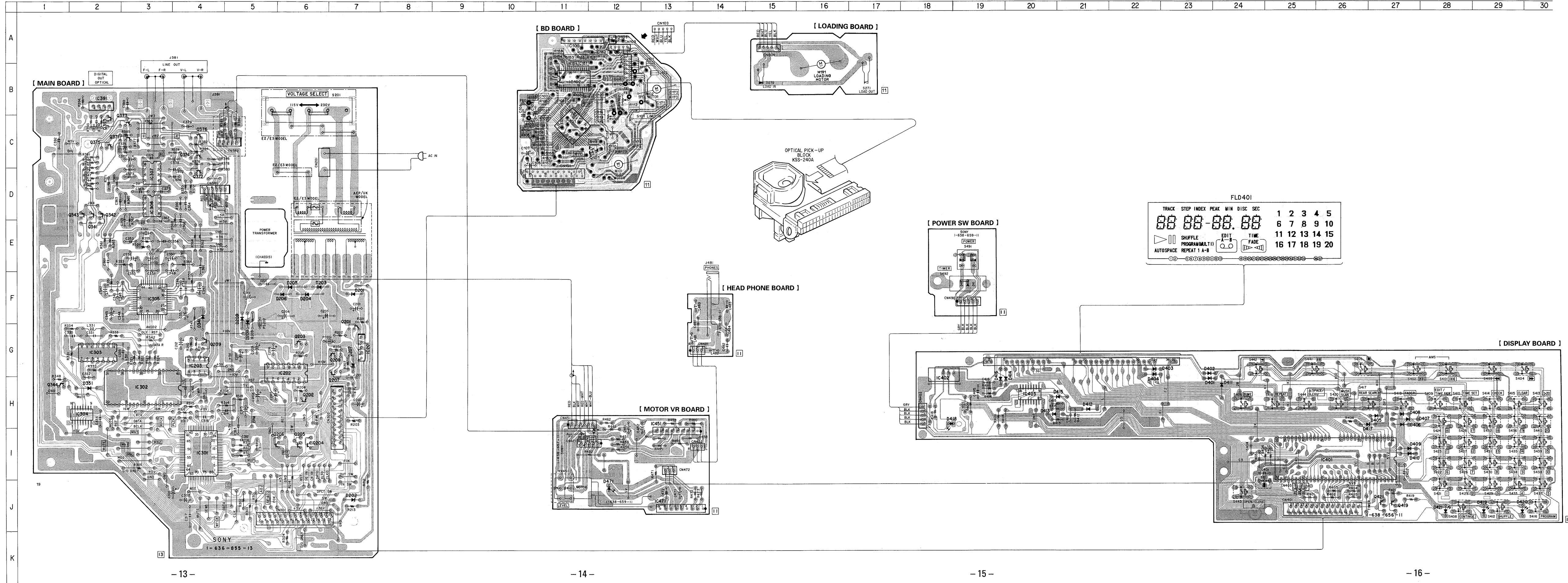
● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D201	F - 7	IC203	G - 4
D202	J - 7	IC301	I - 4
D203	F - 6	IC302	H - 3
D204	F - 6	IC303	G - 2
D205	F - 6	IC304	H - 2
D206	F - 6	IC305	F - 3
D207	G - 7	IC306	D - 3
D208	F - 5	IC307	D - 3
D209	F - 5	IC391	B - 2
D301	F - 4	IC401	I - 26
D351	H - 2	IC402	G - 18
D401	G - 23	Q101	C - 12
D402	G - 23	Q201	F - 7
D403	G - 22	Q202	H - 6
D404	G - 22	Q203	H - 6
D405	H - 27	Q204	I - 6
D406	H - 27	Q205	I - 6
D407	H - 27	Q206	I - 6
D408	H - 27	Q208	G - 7
D409	I - 27	Q209	G - 4
D410	I - 27	Q341	D - 2
D411	H - 24	Q342	D - 2
D412	H - 21	Q343	D - 2
D413	H - 20	Q344	H - 1
D414	G - 19	Q371	C - 3
D415	H - 20	Q372	D - 4
D416	G - 19	Q373	C - 3
D417	H - 26	Q374	C - 4
D418	H - 18	Q375	C - 2
D419	J - 29	Q376	C - 4
D420	J - 30	Q393	C - 2
D421	J - 28	Q419	J - 27
D471	J - 12	Q421	J - 27
IC101	C - 11		
IC102	B - 11		
IC103	A - 11		
IC201	G - 7		
IC202	G - 6		

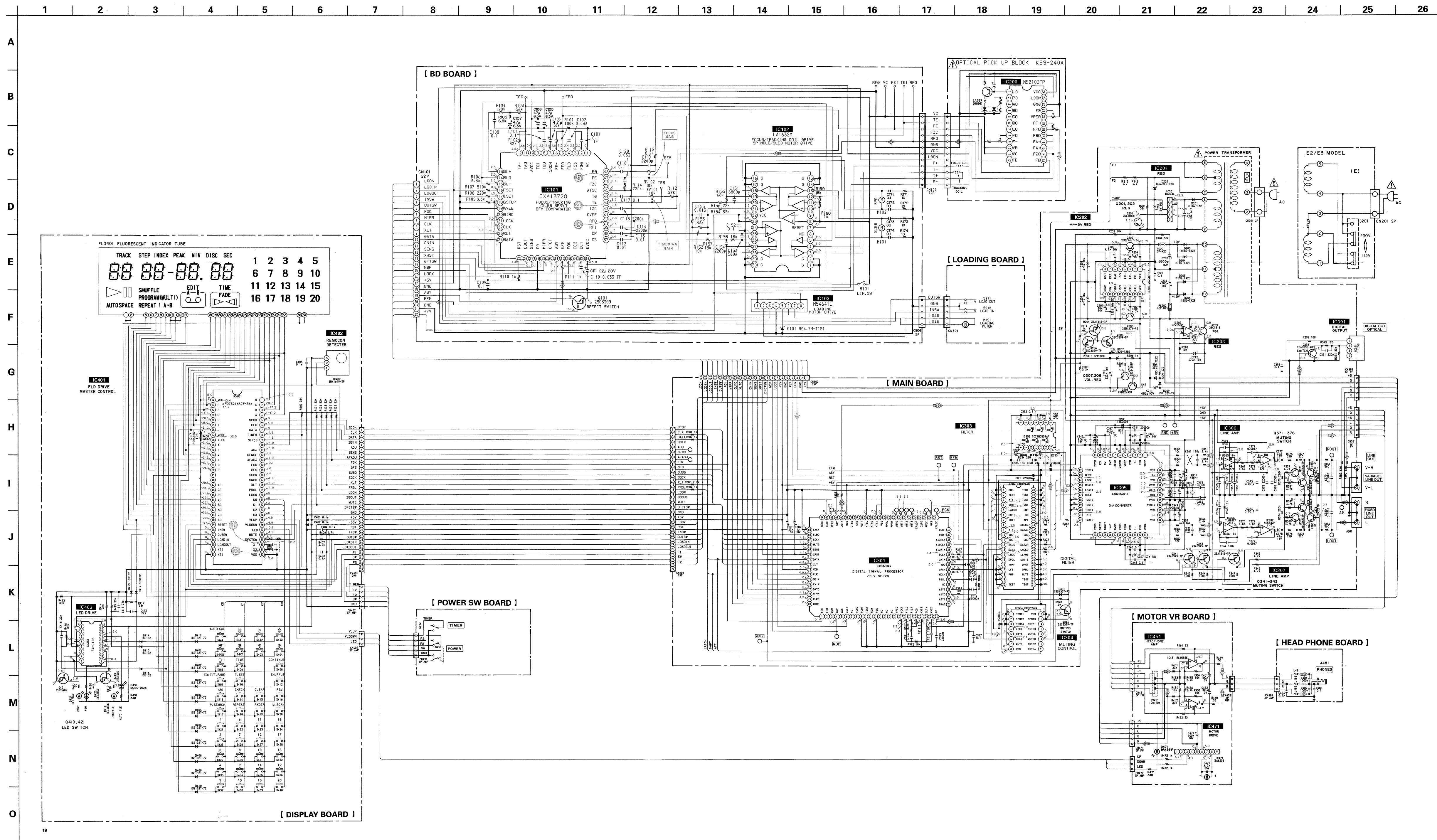
Note:

- : indicated a lead wire mounted on the component side.
- : indicated a lead wire mounted on the conductor side.
- : Through hole.
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

3-3. PRINTED WIRING BOARDS



3-4. SCHEMATIC DIAGRAM



Note:

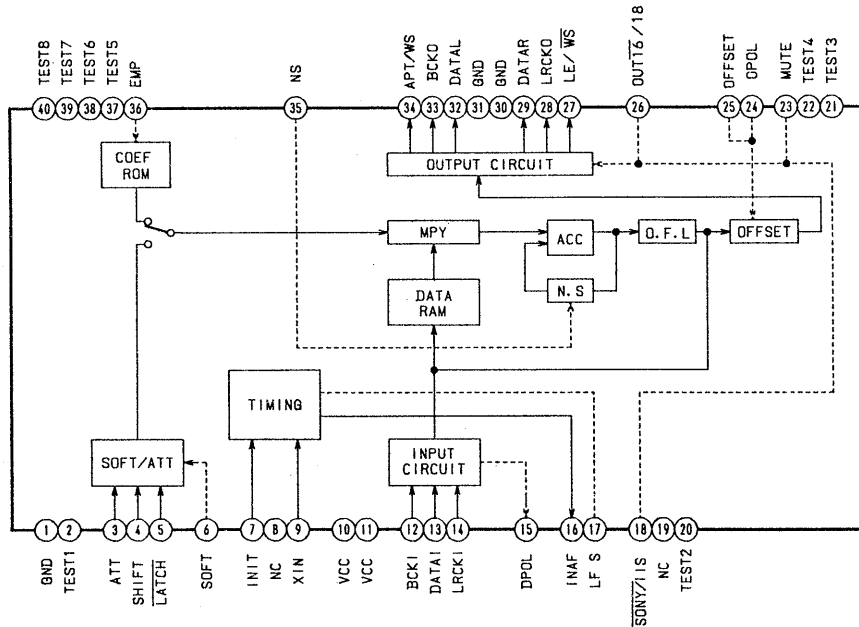
- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/4W or less unless otherwise noted.
- Δ : internal component.

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

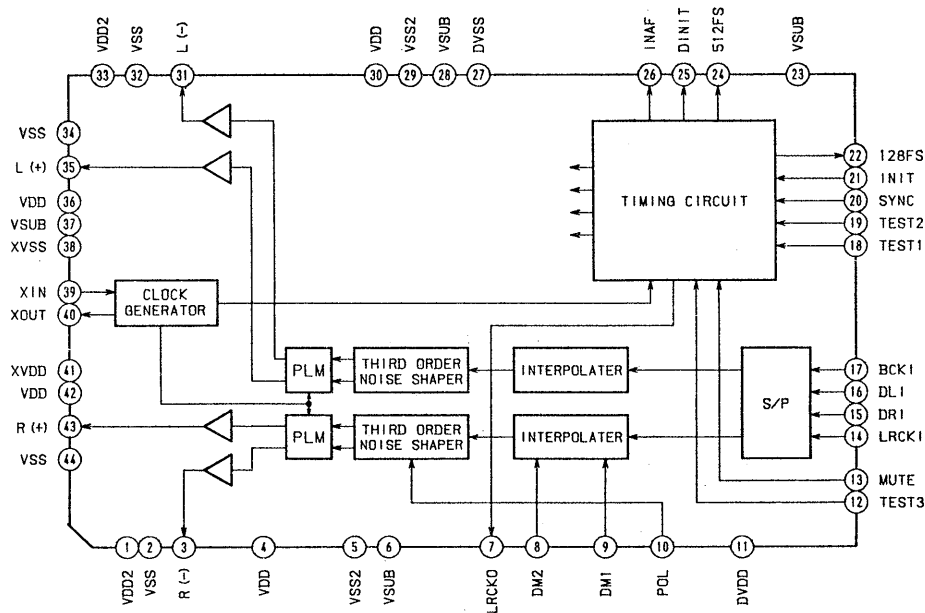
- *  : B+ Line.
- *  : B- Line.
- *  : adjustment for repair.
- * Voltages are DC between measurement points and ground under no-signal (STOP) conditions.
- * no make : PB mode
- * Voltages are taken with a VOM (input impedance 10M Ω).
Voltage variations may be noted due to normal production tolerances.
- * Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- * Circled numbers refer to waveforms.
- * Signal path
 : CD

3-5. IC BLOCK DIAGRAMS

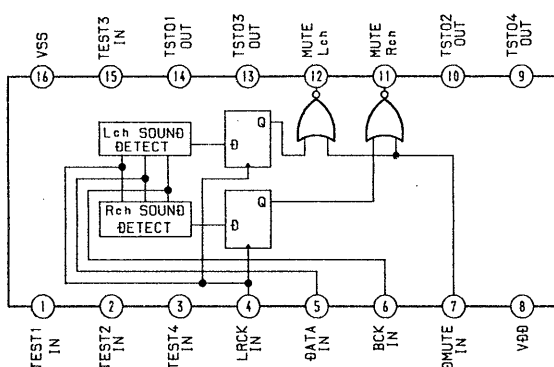
IC302 CXD1244S



IC303 CXD2552



IC304 CXD2557M



SECTION 4

EXPLODED VIEW

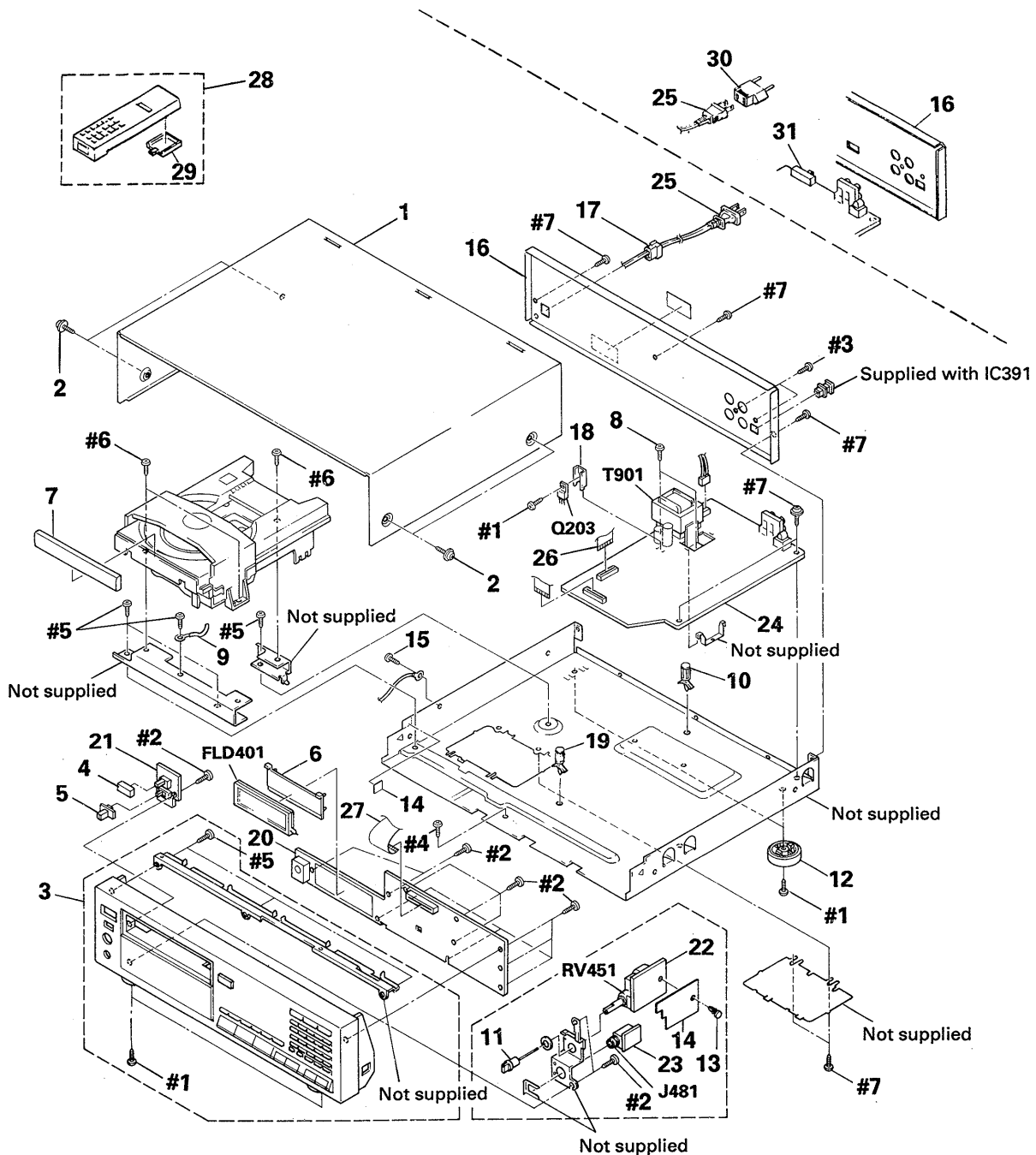
NOTE:

- -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

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware(# mark) list is given in the last of this parts list.

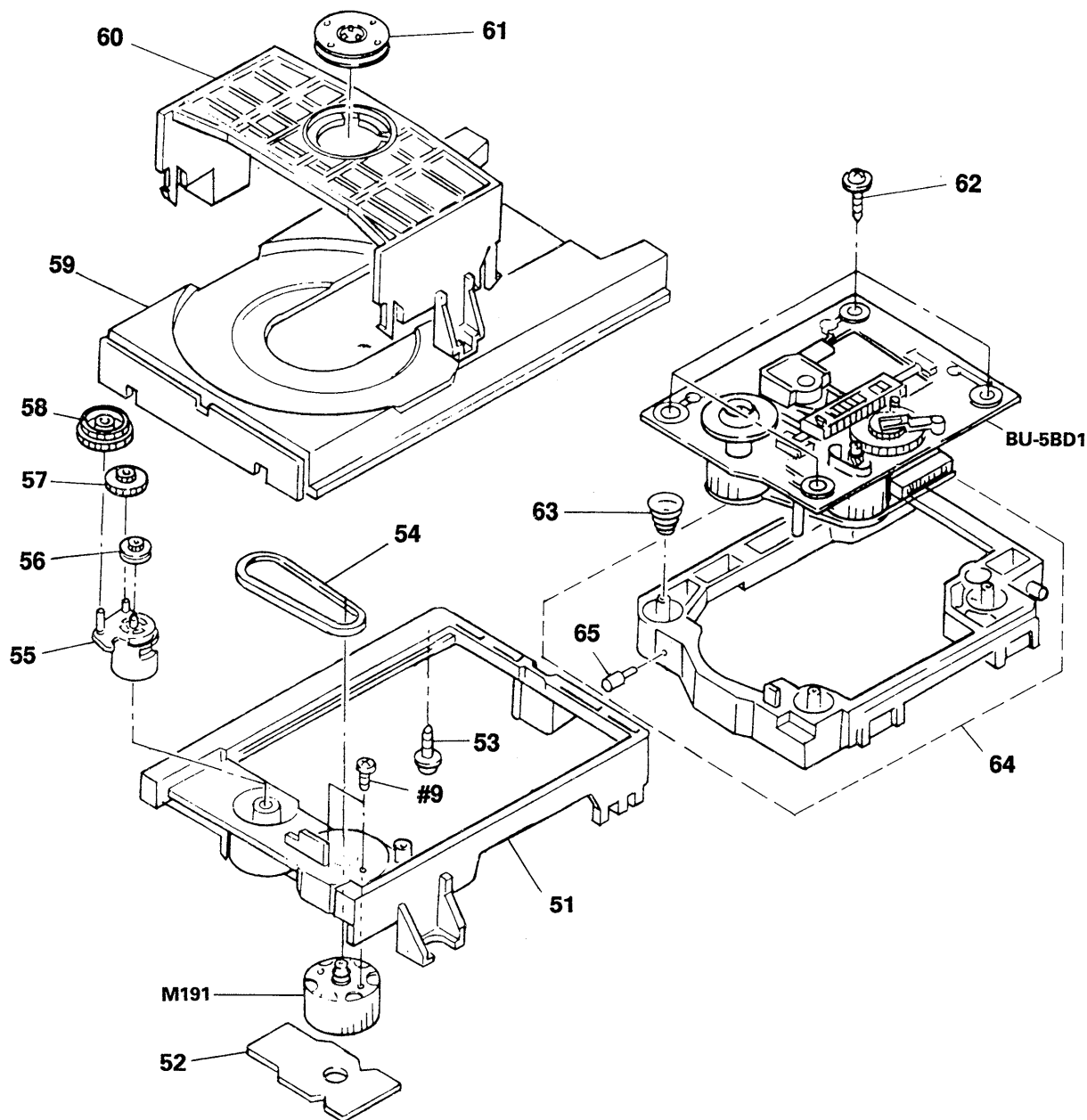
The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

(1) CHASSIS SECTION



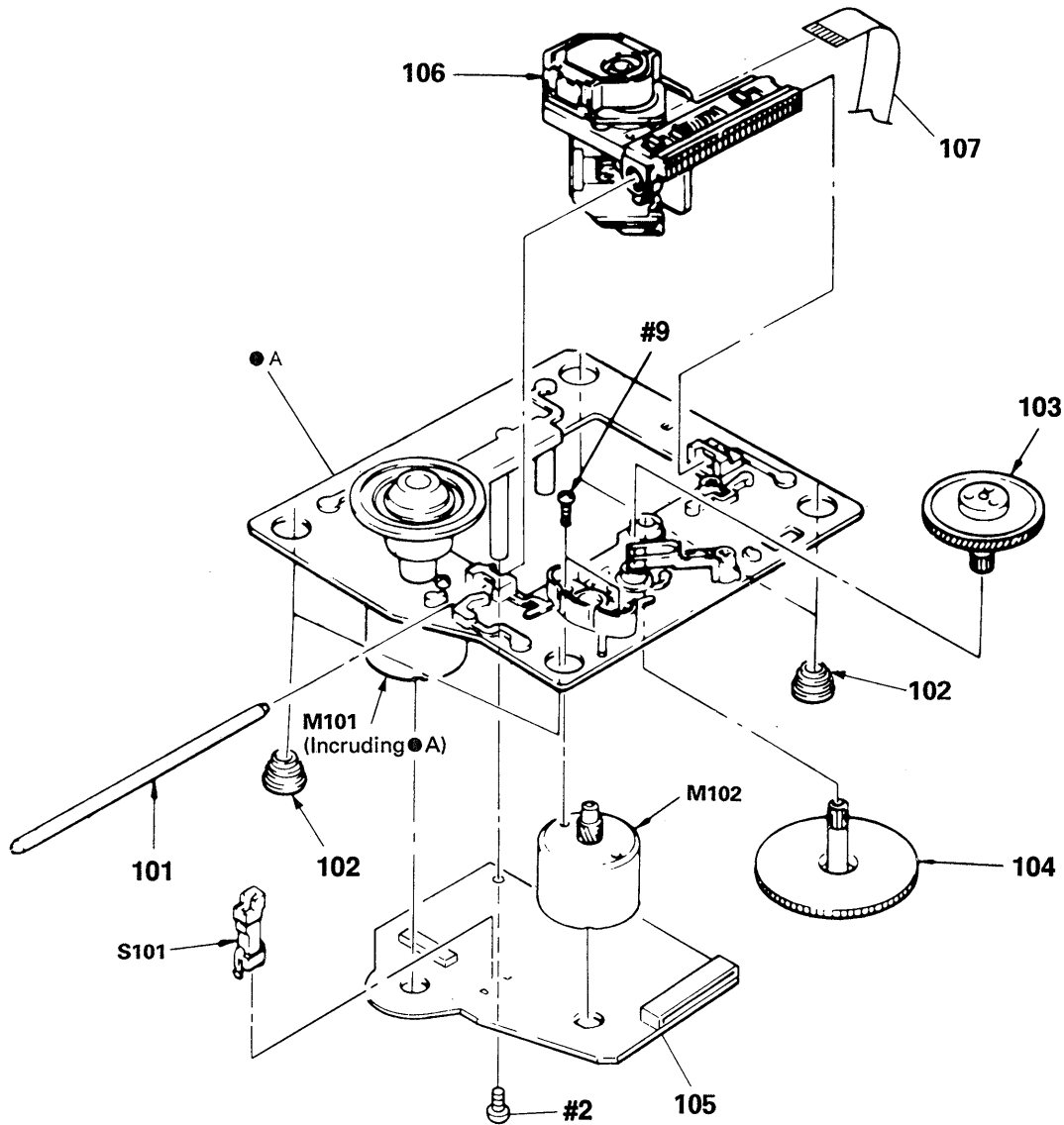
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	4-919-377-01	CASE		21	* 1-638-659-11	POWER SW BOARD	
2	3-704-366-01	SCREW (CASE) (M3X8)		22	* 1-638-657-11	MOTOR VR BOARD	
3	X-4941-315-1	PANEL ASSY, FRONT		23	* 1-638-658-11	HP BOARD	
4	4-922-903-01	BUTTON (PW)		24	* A-4617-717-A (AE, UK, AU)...MAIN BOARD, COMPLETE		
5	4-943-114-11	BUTTON (TIMER)			* A-4617-722-A (E2/E3)...MAIN BOARD, COMPLETE		
6	* 4-941-993-01	HOLDER, FL TUBE		25	⚠ 1-575-651-21 (AE)... CORD, POWER		
7	4-941-997-11	PANEL, LOADING			⚠ 1-558-946-21 (UK)... CORD, POWER		
8	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6			⚠ 1-575-653-21 (E2/E3)... CORD, POWER		
9	* 3-701-822-00	HOLDER, WIRE			⚠ 1-574-358-31 (AU)... CORD, POWER		
10	* 3-349-025-41	HOLDER, PC BOARD (WHITE)		26	1-575-160-11	WIRE, FLAT TYPE (22 CORE)	
11	A-4604-702-A	KNOB (HP) ASSY		27	1-590-795-11	WIRE, FLAT TYPE (29 CORE)	
12	4-934-884-01	FOOT		28	1-465-594-11	COMMANDER, REMOTE	
13	4-818-403-00	RIVET, NYLON		29	3-707-584-01	COVER, BATTERY	
14	* 4-944-636-01	COVER		30	⚠ 1-569-007-11 (E2/E3)... ADAPTER, CONVERSION 2P		
15	4-929-510-01	SCREW, S TIGHT, 2.6X5		31	1-571-722-11 (E2/E3)... SWITCH, VOLTAGE SELECTION		
16	* 4-943-116-11 (AE)... PANEL, BACK			FLD401	1-519-618-21	INDICATOR TUBE, FLUORESCENT	
	* 4-943-116-21 (UK, AU)... PANEL, BACK			IC391	8-749-921-20	IC T-1550	
	* 4-943-116-31 (E2/E3)... PANEL, BACK			J481	1-568-519-21	JACK, LARGE TYPE	
17	* 3-703-244-00	BUSHING (2104), CORD		Q203	8-729-821-73	TRANSISTOR 2SB1274SA-RS	
18	* 4-941-237-01	HEAT SINK		RV451	1-241-346-11	RES, VAR, CARBON 10k/10k	
19	* 4-944-316-01	HOLDER, PC BOARD (BLACK)		T901	⚠ 1-449-922-11 (AE, UK, AU)... TRANSFORMER, POWER		
20	* A-4617-718-A	DISPLAY BOARD, COMPLETE			⚠ 1-449-923-11 (E2/E3)... TRANSFORMER, POWER		

(2) CD MECHANISM SECTION (CDM14-5BD1)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	4-933-111-01	CHASSIS (MD)		60	4-933-110-01	HOLDER (MG)	
52	* 1-632-202-11	LOADING BOARD		61	* 1-452-538-11	MAGNET	
53	* 4-917-583-21	BRACKET, YOKE		62	4-933-134-01	SCREW (+PTPWH M2. 6X6)	
54	4-927-649-01	BELT		63	4-917-541-01	SPRING (B)	
55	4-933-109-01	CAM		64	4-933-129-01	HOLDER (BU)	
56	4-927-651-01	PULLEY (S)		65	4-933-108-01	SHAFT (CAM)	
57	4-927-628-01	GEAR (C)		M191	A-4604-363-A	MOTOR (L) ASSY	
58	4-933-107-01	GEAR (PL)					
59	4-933-112-01	TABLE, DISK					

(3) OPTICAL PICK-UP BLOCK (BU-5BD1)



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	Remarks
101	4-917-565-01	SHAFT, SLED	
102	4-933-126-01	INSULATOR (A)	
103	4-917-567-01	GEAR (M)	
104	4-917-564-01	GEAR (P), FLATNESS	
105	* A-4617-161-A	BD BOARD, COMPLETE	
106	$\triangle$ 8-848-144-11	DEVICE, OPTICAL KSS-240A	
107	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
M101	X-4917-523-3	ASSY, MOTOR (SPINDLE)	
M102	X-4917-504-1	ASSY, MOTOR (SLED)	
S101	1-572-085-11	SWITCH, LEAF	

BD

SECTION 5

ELECTRICAL PARTS LIST

NOTE:

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

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

- 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, -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: μ , for example:
uA...: μ A..., uPA...: μ PA...,
uPB...: μ PB..., uPC...: μ PC...,
uPD...: μ PD...
- CAPACITORS
uF : μ F
- COILS
uH : μ H
- Hardware(# mark) list is given in the last of this parts list.

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
	* A-4617-161-A	BD BOARD, COMPLETE *****		CN101	1-568-796-11	SOCKET, CONNECTOR 22P	
		< CAPACITOR >		CN102	1-568-795-11	SOCKET, CONNECTOR 12P	
C101	1-163-038-00	CERAMIC CHIP 0.1uF	25V	CN103	* 1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P	
C102	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V			< DIODE >	
C103	1-126-163-11	ELECT 4.7uF	20% 50V	D101	8-719-105-72	DIODE RD4.7M-B1	
C104	1-163-038-00	CERAMIC CHIP 0.1uF	25V			< IC >	
C105	1-126-154-11	ELECT 47uF	20% 6.3V	IC101	8-752-050-82	IC CXA1372Q	
C106	1-126-154-11	ELECT 47uF	20% 6.3V	IC102	8-759-822-36	IC LA6532M-T1	
C107	1-126-154-11	ELECT 47uF	20% 6.3V	IC103	8-759-633-65	IC M54641L	
C108	1-163-038-00	CERAMIC CHIP 0.1uF	25V			< JACK >	
C109	1-163-038-00	CERAMIC CHIP 0.1uF	25V	J101	1-216-295-00	METAL CHIP 0	5% 1/10W
C110	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V	J102	1-216-295-00	METAL CHIP 0	5% 1/10W
C111	1-131-367-00	TANTALUM 22uF	10% 20V			< TRANSISTOR >	
C112	1-164-232-11	CERAMIC CHIP 0.01uF	50V	Q101	8-729-901-01	TRANSISTOR DTC144EK	
C113	1-164-232-11	CERAMIC CHIP 0.01uF	50V			< RESISTOR >	
C114	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V	R101	1-216-097-00	METAL CHIP 100K	5% 1/10W
C115	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V	R102	1-216-095-00	METAL CHIP 82K	5% 1/10W
C117	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R103	1-216-091-00	METAL CHIP 56K	5% 1/10W
C118	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R104	1-216-099-00	METAL CHIP 120K	5% 1/10W
C119	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V	R105	1-216-069-00	METAL CHIP 6.8K	5% 1/10W
C120	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V	R106	1-216-061-00	METAL CHIP 3.3K	5% 1/10W
C151	1-163-019-00	CERAMIC CHIP 0.0068uF	10% 50V	R107	1-216-114-00	METAL GLAZE 510K	5% 1/10W
C152	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R108	1-216-105-00	METAL CHIP 220K	5% 1/10W
C153	1-163-006-11	CERAMIC CHIP 560PF	10% 50V	R109	1-216-061-00	METAL CHIP 3.3K	5% 1/10W
C154	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 100V	R110	1-216-049-00	METAL CHIP 1K	5% 1/10W
C155	1-163-023-00	CERAMIC CHIP 0.015uF	5% 50V	R111	1-216-049-00	METAL CHIP 1K	5% 1/10W
C171	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R112	1-216-083-00	METAL CHIP 27K	5% 1/10W
C172	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R113	1-216-071-00	METAL CHIP 8.2K	5% 1/10W
C173	1-163-038-00	CERAMIC CHIP 0.1uF	25V				
C174	1-163-038-00	CERAMIC CHIP 0.1uF	25V				
		< CONNECTOR >					

BD

LOADING

MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R114	1-216-105-00	METAL CHIP	220K 5% 1/10W	C206	1-126-059-11	ELECT	10uF 20% 50V
R152	1-216-073-00	METAL CHIP	10K 5% 1/10W	C207	1-126-059-11	ELECT	10uF 20% 50V
R153	1-216-085-00	METAL CHIP	33K 5% 1/10W	C208	1-124-997-11	ELECT	470uF 20% 10V
R154	1-216-085-00	METAL CHIP	33K 5% 1/10W	C209	1-124-997-11	ELECT	470uF 20% 10V
R155	1-216-093-00	METAL CHIP	68K 5% 1/10W	C210	1-126-024-11	ELECT	220uF 20% 16V
R156	1-216-081-00	METAL CHIP	22K 5% 1/10W	C211	1-124-997-11	ELECT	470uF 20% 10V
R157	1-216-079-00	METAL CHIP	18K 5% 1/10W	C212	1-124-997-11	ELECT	470uF 20% 10V
R158	1-216-079-00	METAL CHIP	18K 5% 1/10W	C221	1-164-159-11	CERAMIC	0.1uF 50V
R159	1-216-079-00	METAL CHIP	18K 5% 1/10W	C301	1-126-022-11	ELECT	47uF 20% 16V
R160	1-216-049-00	METAL CHIP	1K 5% 1/10W	C302	1-126-301-11	ELECT	1uF 20% 50V
R171	1-216-001-00	METAL CHIP	10 5% 1/10W	C311	1-130-491-00	MYLAR	0.047uF 5% 50V
R172	1-216-001-00	METAL CHIP	10 5% 1/10W	C312	1-161-374-11	CERAMIC	0.0015uF 20% 50V
R173	1-216-001-00	METAL CHIP	10 5% 1/10W	C313	1-161-494-00	CERAMIC	0.022uF 25V
R174	1-216-001-00	METAL CHIP	10 5% 1/10W	C314	1-162-306-11	CERAMIC	0.01uF 20% 16V
< VARIABLE RESISTOR >				C315	1-126-300-11	ELECT	0.47uF 20% 50V
RV101	1-238-016-11	RES, ADJ, CARBON 10K		C316	1-161-494-00	CERAMIC	0.022uF 25V
RV102	1-238-016-11	RES, ADJ, CARBON 10K		C317	1-164-159-11	CERAMIC	0.1uF 50V
< SWITCH >				C321	1-161-494-00	CERAMIC	0.022uF 25V
S101	1-572-085-11	SWITCH, LEAF		C331	1-162-208-31	CERAMIC	24PF 5% 50V
*****				C332	1-130-495-00	MYLAR	0.1uF 5% 50V
* 1-632-202-11 LOADING BOARD				C333	1-161-494-00	CERAMIC	0.022uF 25V
*****				C334	1-161-494-00	CERAMIC	0.022uF 25V
< CONNECTOR >				C335	1-162-205-31	CERAMIC	18PF 5% 50V
CN301	* 1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P		C341	1-161-494-00	CERAMIC	0.022uF 25V
< SWITCH >				C342	1-126-022-11	ELECT	47uF 20% 16V
S271	1-572-086-11	SWITCH, LEAF		C343	1-161-494-00	CERAMIC	0.022uF 25V
S272	1-572-086-11	SWITCH, LEAF		C344	1-161-494-00	CERAMIC	0.022uF 25V
*****				C345	1-126-022-11	ELECT	47uF 20% 16V
* A-4617-717-A (AE, UK, AU)...MAIN BOARD, COMPLETE				C346	1-164-159-11	CERAMIC	0.1uF 50V
* A-4617-722-A (E2/E3)...MAIN BOARD, COMPLETE				C347	1-126-022-11	ELECT	47uF 20% 16V
*****				C348	1-164-159-11	CERAMIC	0.1uF 50V
* 4-941-237-01 HEAT SINK				C349	1-161-494-00	CERAMIC	0.022uF 25V
< CAPACITOR >				C350	1-126-022-11	ELECT	47uF 20% 16V
C201	1-124-572-11	ELECT	100uF 20% 63V	C351	1-161-494-00	CERAMIC	0.022uF 25V
C202	1-126-059-11	ELECT	10uF 20% 50V	C352	1-126-022-11	ELECT	47uF 20% 16V
C203	1-124-887-00	ELECT	3300uF 20% 16V	C353	1-162-199-31	CERAMIC	10PF 5% 50V
C204	1-126-937-11	ELECT	4700uF 20% 16V	C354	1-162-199-31	CERAMIC	10PF 5% 50V
C205	1-126-163-11	ELECT	4.7uF 20% 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
				C361	1-162-285-31	CERAMIC	180PF 10% 50V
				C362	1-162-285-31	CERAMIC	180PF 10% 50V
				C363	1-162-283-31	CERAMIC	120PF 10% 50V
				C364	1-162-283-31	CERAMIC	120PF 10% 50V
				C365	1-162-283-31	CERAMIC	120PF 10% 50V
				C366	1-162-283-31	CERAMIC	120PF 10% 50V
				C367	1-161-494-00	CERAMIC	0.022uF 25V
				C368	1-161-494-00	CERAMIC	0.022uF 25V
				C371	1-130-479-00	MYLAR	0.0047uF 5% 50V

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

MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C372	1-130-479-00	MYLAR	0.0047uF 5% 50V			< COIL >	
C373	1-130-472-00	MYLAR	0.0012uF 5% 50V				
C374	1-130-472-00	MYLAR	0.0012uF 5% 50V				
C375	1-161-494-00	CERAMIC	0.022uF 25V	L331	1-408-403-00	INDUCTOR 3.3uH	
C376	1-161-494-00	CERAMIC	0.022uF 25V			< IC LINK >	
C377	1-126-022-11	ELECT	47uF 20% 16V	PS201	△ 1-532-685-00	LINK, IC	
C378	1-126-022-11	ELECT	47uF 20% 16V	PS202	△ 1-532-637-00	LINK, IC 1.0A	
C379	1-130-474-00	MYLAR	0.0018uF 5% 50V			< TRANSISTOR >	
C380	1-130-474-00	MYLAR	0.0018uF 5% 50V				
C391	1-162-286-31	CERAMIC	220PF 10% 50V	Q201	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C392	1-164-159-11	CERAMIC	0.1uF 50V	Q202	8-729-140-96	TRANSISTOR 2SD774-34	
		< CONNECTOR >		Q203	8-729-821-73	TRANSISTOR 2SB1274SA-RS	
CN201	* 1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P		Q204	8-729-900-65	TRANSISTOR DTA144ES	
CN301	* 1-568-844-11	SOCKET, CONNECTOR 29P		Q205	8-729-900-89	TRANSISTOR DTC144ES	
CN302	* 1-568-822-11	SOCKET, CONNECTOR 22P		Q206	8-729-900-89	TRANSISTOR DTC144ES	
CN381	* 1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P		Q207	8-729-230-45	TRANSISTOR 2SC2458-YGR	
CN382	* 1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P		Q208	8-729-821-73	TRANSISTOR 2SB1274SA-RS	
		< DIODE >		Q209	8-729-281-52	TRANSISTOR 2SC1815-Y	
D201	8-719-200-82	DIODE 11ES2		Q341	8-729-900-65	TRANSISTOR DTA144ES	
D202	8-719-109-97	DIODE RD6. 8ES-B2		Q342	8-729-900-65	TRANSISTOR DTA144ES	
D203	8-719-200-82	DIODE 11ES2		Q343	8-729-900-65	TRANSISTOR DTA144ES	
D204	8-719-200-82	DIODE 11ES2		Q344	8-729-900-89	TRANSISTOR DTC144ES	
D205	8-719-200-82	DIODE 11ES2		Q371	8-729-141-30	TRANSISTOR 2SC3623A-LK	
D206	8-719-200-82	DIODE 11ES2		Q372	8-729-141-30	TRANSISTOR 2SC3623A-LK	
D207	8-719-114-49	DIODE RD7. 5JS-B2		Q373	8-729-141-30	TRANSISTOR 2SC3623A-LK	
D208	8-719-109-89	DIODE RD5. 6ES-B2		Q374	8-729-141-30	TRANSISTOR 2SC3623A-LK	
D209	8-719-912-20	DIODE 1SS120		Q375	8-729-231-55	TRANSISTOR 2SC2878-AB	
D341	8-719-210-21	DIODE 11EQS04		Q376	8-729-231-55	TRANSISTOR 2SC2878-AB	
D351	8-719-912-20	DIODE 1SS120		Q393	8-729-920-68	TRANSISTOR 2SA933S-QR	
		< IC >				< RESISTOR >	
IC201	8-759-633-42	IC M5293L		R201	1-249-435-11	CARBON 33K 5% 1/4W	
IC202	8-759-630-21	IC M5290P-16		R202	1-249-438-11	CARBON 56K 5% 1/4W	
IC203	8-759-945-58	IC RC4558P		R203	1-249-429-11	CARBON 10K 5% 1/4W	
IC301	8-752-337-26	IC CXD2500AQ		R204	1-249-425-11	CARBON 4.7K 5% 1/4W	
IC302	8-752-328-61	IC CXD1244S		R205	1-249-425-11	CARBON 4.7K 5% 1/4W	
IC303	8-759-917-18	IC TC74HCU04AP		R206	1-249-417-11	CARBON 1K 5% 1/4W	
IC304	8-752-339-86	IC CXD2557M		R207	1-249-417-11	CARBON 1K 5% 1/4W	
IC305	8-752-335-53	IC CXD2552Q-3		R208	1-249-423-11	CARBON 3.3K 5% 1/4W	
IC306	8-759-990-82	IC TL082CP		R209	1-249-413-11	CARBON 470 5% 1/4W	
IC307	8-759-900-72	IC NE5532P		R210	1-249-429-11	CARBON 10K 5% 1/4W	
IC391	8-749-921-20	IC T-1550		R211	1-249-410-11	CARBON 270 5% 1/4W	
		< JACK >		R212	1-249-385-11	CARBON 2.2 5% 1/6W	
J381	* 1-569-443-11	JACK, PIN 4P		R213	1-249-385-11	CARBON 2.2 5% 1/6W	
				R214	1-249-417-11	CARBON 1K 5% 1/4W	
				R301	1-249-417-11	CARBON 1K 5% 1/4W	
				R302	1-249-417-11	CARBON 1K 5% 1/4W	
				R303	1-249-421-11	CARBON 2.2K 5% 1/4W	
				R304	1-249-417-11	CARBON 1K 5% 1/4W	

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

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

MAIN

MOTOR VR

HP

POWER SW

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R305	1-249-411-11	CARBON	330	5%	1/4W	R379	1-249-425-11	CARBON	4. 7K	5%	1/4W
R311	1-249-423-11	CARBON	3. 3K	5%	1/4W	R380	1-249-425-11	CARBON	4. 7K	5%	1/4W
R312	1-249-429-11	CARBON	10K	5%	1/4W	R381	1-249-425-11	CARBON	4. 7K	5%	1/4W
R313	1-249-423-11	CARBON	3. 3K	5%	1/4W	R382	1-249-425-11	CARBON	4. 7K	5%	1/4W
R314	1-249-429-11	CARBON	10K	5%	1/4W	R383	1-249-414-11	CARBON	560	5%	1/4W
R315	1-249-417-11	CARBON	1K	5%	1/4W	R384	1-249-414-11	CARBON	560	5%	1/4W
R316	1-249-417-11	CARBON	1K	5%	1/4W	R385	1-249-393-11	CARBON	10	5%	1/4W
R317	1-249-420-11	CARBON	1. 8K	5%	1/4W	R386	1-249-393-11	CARBON	10	5%	1/4W
R318	1-249-441-11	CARBON	100K	5%	1/4W	R389	1-249-414-11	CARBON	560	5%	1/4W
R321	1-249-417-11	CARBON	1K	5%	1/4W	R390	1-249-414-11	CARBON	560	5%	1/4W
R322	1-249-417-11	CARBON	1K	5%	1/4W	R392	1-249-405-11	CARBON	100	5%	1/4W
R323	1-249-417-11	CARBON	1K	5%	1/4W	R393	1-249-406-11	CARBON	120	5%	1/4W
R324	1-249-418-11	CARBON	1. 2K	5%	1/4W	R394	1-249-435-11	CARBON	33K	5%	1/4W
R331	1-249-413-11	CARBON	470	5%	1/4W						
R332	1-247-887-00	CARBON	220K	5%	1/4W			< TRANSFORMER >			
R333	1-249-417-11	CARBON	1K	5%	1/4W	T901	⚠ 1-449-922-11	(AE, UK, AU)... TRANSFORMER, POWER			
R334	1-249-409-11	CARBON	220	5%	1/4W		⚠ 1-449-923-11	(E2/E3)... TRANSFORMER, POWER			
R341	1-249-393-11	CARBON	10	5%	1/4W			< CRYSTAL >			
R342	1-249-417-11	CARBON	1K	5%	1/4W						
R343	1-249-441-11	CARBON	100K	5%	1/4W	X351	1-579-161-11	VIBRATOR, CRYSTAL (45MHz)			
R344	1-249-441-11	CARBON	100K	5%	1/4W						
R345	1-249-425-11	CARBON	4. 7K	5%	1/4W						
R346	1-249-425-11	CARBON	4. 7K	5%	1/4W						
R347	1-249-441-11	CARBON	100K	5%	1/4W						
R348	1-249-429-11	CARBON	10K	5%	1/4W						
R351	1-249-429-11	CARBON	10K	5%	1/4W						
R352	1-249-429-11	CARBON	10K	5%	1/4W						
R353	1-249-429-11	CARBON	10K	5%	1/4W						
R354	1-249-429-11	CARBON	10K	5%	1/4W						
R355	1-247-848-11	CARBON	5. 1K	5%	1/4W						
R356	1-249-405-11	CARBON	100	5%	1/4W						
R361	1-247-840-00	CARBON	2. 4K	5%	1/4W						
R362	1-247-840-00	CARBON	2. 4K	5%	1/4W						
R363	1-247-840-00	CARBON	2. 4K	5%	1/4W						
R364	1-247-840-00	CARBON	2. 4K	5%	1/4W						
R365	1-249-432-11	CARBON	18K	5%	1/4W						
R366	1-249-432-11	CARBON	18K	5%	1/4W						
R367	1-249-432-11	CARBON	18K	5%	1/4W						
R368	1-249-432-11	CARBON	18K	5%	1/4W						
R369	1-249-419-11	CARBON	1. 5K	5%	1/4W						
R370	1-249-419-11	CARBON	1. 5K	5%	1/4W						
R371	1-249-419-11	CARBON	1. 5K	5%	1/4W						
R372	1-249-419-11	CARBON	1. 5K	5%	1/4W						
R373	1-247-887-00	CARBON	220K	5%	1/4W						
R374	1-247-887-00	CARBON	220K	5%	1/4W						
R375	1-249-409-11	CARBON	220	5%	1/4W						
R376	1-249-409-11	CARBON	220	5%	1/4W						
R377	1-249-409-11	CARBON	220	5%	1/4W						
R378	1-249-409-11	CARBON	220	5%	1/4W						

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Replace only with part number specified.

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MOTOR VR

HP

POWER SW

Ref. No.	Part No.	Description	Remarks
C482	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C483	1-164-159-11	CERAMIC 0.1uF 50V	
C484	1-164-159-11	CERAMIC 0.1uF 50V	

< CONNECTOR >

CN401	* 1-568-844-11	SOCKET, CONNECTOR 29P	
CN451	* 1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P	
CN471	* 1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P	
CN472	* 1-568-952-11	PIN, CONNECTOR 3P	

< DIODE >

D401	8-719-912-20	DIODE 1SS120	
D402	8-719-912-20	DIODE 1SS120	
D403	8-719-912-20	DIODE 1SS120	
D404	8-719-912-20	DIODE 1SS120	
D405	8-719-912-20	DIODE 1SS120	
D406	8-719-912-20	DIODE 1SS120	
D407	8-719-912-20	DIODE 1SS120	
D408	8-719-912-20	DIODE 1SS120	
D409	8-719-912-20	DIODE 1SS120	
D410	8-719-912-20	DIODE 1SS120	
D411	8-719-912-20	DIODE 1SS120	
D412	8-719-912-20	DIODE 1SS120	
D413	8-719-912-20	DIODE 1SS120	
D414	8-719-912-20	DIODE 1SS120	
D415	8-719-912-20	DIODE 1SS120	
D416	8-719-912-20	DIODE 1SS120	
D417	8-719-110-13	DIODE RD9. 1ES-B2	
D418	8-719-974-67	DIODE MU20-2105	
D419	8-719-989-59	DIODE SLZ-489C-02-Y	
D420	8-719-989-58	DIODE SLZ-889F-02	
D421	8-719-989-57	DIODE SLZ-789F-02	
D471	8-719-970-49	DIODE BR4361F	

< FILTER >

FLD401	1-519-618-21	INDICATOR TUBE, FLUORESCENT	
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< IC >

IC401	8-759-152-97	IC uPD75216ACW-B64	
IC402	8-741-100-48	IC SBX1610-59	
IC403	8-759-926-29	IC SN74HC175ANS	
IC451	8-759-981-89	IC RC4556S	
IC471	8-759-962-08	IC BA6208	

< JACK >

J481	1-568-519-21	JACK, LARGE TYPE	
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< COIL >

Ref. No.	Part No.	Description	Remarks
L481	1-424-090-11	COIL, LINE FILTER	
L482	1-424-090-11	COIL, LINE FILTER	
L483	1-424-090-11	COIL, LINE FILTER	

< TRANSISTOR >

Q419	8-729-900-80	TRANSISTOR DTC114ES	
Q421	8-729-900-80	TRANSISTOR DTC114ES	

< RESISTOR >

R401	1-249-435-11	CARBON 33K 5% 1/4W	
R402	1-249-435-11	CARBON 33K 5% 1/4W	
R403	1-249-435-11	CARBON 33K 5% 1/4W	
R404	1-249-435-11	CARBON 33K 5% 1/4W	
R405	1-249-435-11	CARBON 33K 5% 1/4W	
R406	1-249-425-11	CARBON 4.7K 5% 1/4W	
R407	1-249-425-11	CARBON 4.7K 5% 1/4W	
R408	1-249-439-11	CARBON 68K 5% 1/4W	
R409	1-249-435-11	CARBON 33K 5% 1/4W	
R412	1-249-435-11	CARBON 33K 5% 1/4W	
R413	1-249-435-11	CARBON 33K 5% 1/4W	
R414	1-249-435-11	CARBON 33K 5% 1/4W	
R415	1-249-435-11	CARBON 33K 5% 1/4W	
R416	1-249-435-11	CARBON 33K 5% 1/4W	
R418	1-249-411-11	CARBON 330 5% 1/4W	
R419	1-249-407-11	CARBON 150 5% 1/4W	
R420	1-249-413-11	CARBON 470 5% 1/4W	
R421	1-249-407-11	CARBON 150 5% 1/4W	
R451	1-249-435-11	CARBON 33K 5% 1/4W	
R452	1-249-435-11	CARBON 33K 5% 1/4W	
R453	1-249-432-11	CARBON 18K 5% 1/4W	
R454	1-249-432-11	CARBON 18K 5% 1/4W	
R455	1-249-422-11	CARBON 2.7K 5% 1/4W	
R456	1-249-422-11	CARBON 2.7K 5% 1/4W	
R457	1-249-429-11	CARBON 10K 5% 1/4W	
R458	1-249-429-11	CARBON 10K 5% 1/4W	
R459	1-249-402-11	CARBON 56 5% 1/4W	
R460	1-249-402-11	CARBON 56 5% 1/4W	
R461	1-249-399-11	CARBON 33 5% 1/4W	
R462	1-249-399-11	CARBON 33 5% 1/4W	
R471	1-249-411-11	CARBON 330 5% 1/4W	
R472	1-249-417-11	CARBON 1K 5% 1/4W	
R473	1-249-417-11	CARBON 1K 5% 1/4W	

< VARIABLE RESISTOR >

RV451	1-241-346-11	RES, VAR, CARBON 10K/10K	
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< SWITCH >

S401	1-554-303-21	SWITCH, TACTILE (■◀◀)	
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The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

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

MOTOR VR**HP****POWER SW**

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
S402	1-554-303-21	SWITCH, TACTILE (▷▷)				MISCELLANEOUS	
S403	1-554-303-21	SWITCH, TACTILE (◁◁)				*****	
S404	1-554-303-21	SWITCH, TACTILE (▷▷)					
S405	1-554-303-21	SWITCH, TACTILE (□)					
S406	1-554-303-21	SWITCH, TACTILE (TIME)					
S408	1-554-303-21	SWITCH, TACTILE (CONTINUE)					
S409	1-554-303-21	SWITCH, TACTILE (EDIT/T FADE)					
S410	1-554-303-21	SWITCH, TACTILE (TIME SET)					
S412	1-554-303-21	SWITCH, TACTILE (SHUFFLE)					
S413	1-554-303-21	SWITCH, TACTILE () 20)					
S414	1-554-303-21	SWITCH, TACTILE (CLEAR)					
S415	1-554-303-21	SWITCH, TACTILE (CHECK)					
S416	1-554-303-21	SWITCH, TACTILE (PROGRAM)					
S417	1-554-303-21	SWITCH, TACTILE (P. SEARCH)					
S418	1-554-303-21	SWITCH, TACTILE (REPEAT)					
S419	1-554-303-21	SWITCH, TACTILE (FADER)					
S420	1-554-303-21	SWITCH, TACTILE (M. SCAN)					
S421	1-554-303-21	SWITCH, TACTILE (1)					
S422	1-554-303-21	SWITCH, TACTILE (6)					
S423	1-554-303-21	SWITCH, TACTILE (11)					
S424	1-554-303-21	SWITCH, TACTILE (16)					
S425	1-554-303-21	SWITCH, TACTILE (2)					
S426	1-554-303-21	SWITCH, TACTILE (7)					
S427	1-554-303-21	SWITCH, TACTILE (12)					
S428	1-554-303-21	SWITCH, TACTILE (17)					
S429	1-554-303-21	SWITCH, TACTILE (3)					
S430	1-554-303-21	SWITCH, TACTILE (8)					
S431	1-554-303-21	SWITCH, TACTILE (13)					
S432	1-554-303-21	SWITCH, TACTILE (18)					
S433	1-554-303-21	SWITCH, TACTILE (4)					
S434	1-554-303-21	SWITCH, TACTILE (9)					
S435	1-554-303-21	SWITCH, TACTILE (14)					
S436	1-554-303-21	SWITCH, TACTILE (19)					
S437	1-554-303-21	SWITCH, TACTILE (5)					
S438	1-554-303-21	SWITCH, TACTILE (10)					
S439	1-554-303-21	SWITCH, TACTILE (15)					
S440	1-554-303-21	SWITCH, TACTILE (20)					
S441	1-554-303-21	SWITCH, TACTILE (□□)					
S442	1-554-303-21	SWITCH, TACTILE (▷)					
S443	1-554-303-21	SWITCH, TACTILE (△)					
S444	1-554-303-21	SWITCH, TACTILE (AUTO CUE)					
S491	1-554-118-00	SWITCH, PUSH (1 KEY)					
S492	1-570-157-51	SWITCH, SLIDE					
		< CRYSTAL >					
X401	1-577-358-21	VIBRATOR, CERAMIC (4MHz)					

25	△	1-558-946-21	(UK)... CORD, POWER
	△	1-574-358-31	(AU)... CORD, POWER
	△	1-575-651-21	(AE)... CORD, POWER
	△	1-575-653-21	(E2/E3)... CORD, POWER
26		1-575-160-11	WIRE, FLAT TYPE (22 CORE)
27		1-590-795-11	WIRE, FLAT TYPE (29 CORE)
30	△	1-569-007-11	(E2/E3)... ADAPTER, CONVERSION 2P
61	*	1-452-538-11	MAGNET
106	△	8-848-144-11	DEVICE, OPTICAL KSS-240A
107		1-575-001-11	WIRE, FLAT TYPE (12 CORE)
IC391		8-749-921-20	IC T-1550
M101		X-4917-523-3	ASSY, MOTOR (SPINDLE)
M102		X-4917-504-1	ASSY, MOTOR (SLED)
M191		A-4604-363-A	MOTOR (L) ASSY
Q203		8-729-821-73	TRANSISTOR 2SB1274SA-RS

ACCESSORY & PACKING MATERIAL

1-465-594-11	COMMANDER, REMOTE
1-559-533-11	CORD, CONNECTION
1-559-533-11	CORD, CONNECTION
3-707-584-01	COVER, BATTERY
3-752-690-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH/ SPANISH/PORTUGUESE)
3-752-690-41	(AE)... MANUAL, INSTRUCTION (GERMAN/ DUTCH/SWEDISH/ITALIAN)
* 4-941-548-01	LABEL, CLASS 1
* 4-942-896-11	INDIVIDUAL CARTON
* 4-944-163-01	CUSHION

HARDWARE LIST

#1	7-682-547-09	SCREW +BVTT	3X6 (S)
#2	7-685-134-19	SCREW +BTP	2.6X8 TYPE2 N-S
#3	7-685-646-79	SCREW +BVTP	3X8 TYPE2 N-S
#4	7-685-647-79	SCREW +BVTP	3X10 TYPE2 N-S
#5	7-682-547-04	SCREW +BVTT	3X6 (S)
#6	7-682-548-04	SCREW +BVTT	3X8 (S)
#7	7-682-548-09	SCREW +BVTT	3X8 (S)
#8	7-621-775-10	SCREW +B	2.6X4
#9	7-621-255-15	SCREW +P	2X3

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