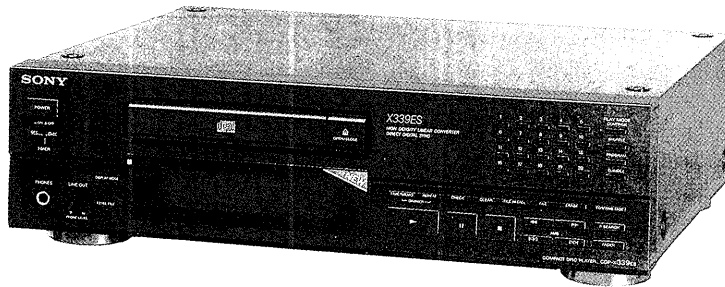


CDP-X339ES

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model



COMPACT
disc
DIGITAL AUDIO

SPECIFICATIONS

Compact disc player

| | |
|-----------------------|---|
| Laser | Semiconductor laser ($\lambda = 780 \text{ nm}$) |
| 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. |
| Frequency response | 2 Hz–20 kHz $\pm 0.3 \text{ dB}$ |
| Signal to noise ratio | More than 116 dB |
| Dynamic range | More than 100 dB |
| Harmonic distortion | Less than 0.0018% |
| Channel separation | More than 110 dB |

Outputs

| | |
|--|--|
| LINE OUT (FIXED) (phono jacks) | Output level 2V (at 50 kilohms) Load impedance over 10 kilohms |
| LINE OUT (VARIABLE) (phono jacks) | Output level max. 2V (at 50 kilohms) Load impedance over 50 kilohms |
| DIGITAL OUT (OPTICAL) (optical output connector) | Wave length 660 nm Output level–18 dBm |
| HEADPHONES (Stereo phone jack) | Output level max. 28 mW Load impedance 32 ohms |

General

| | |
|--------------------|---|
| Power requirements | AEP model: 220–230 V AC, 50/60 Hz UK model: 240 V AC, 50/60 Hz US, Canadian model: 120 V AC, 60 Hz |
|--------------------|---|

| | |
|------------------------------------|-------------|
| Model Name Using Similar Mechanism | NEW |
| CD Transport Mechanism Type | CDM19E-6H50 |
| Optical Pick-up Block Type | BU-6H |

| | |
|--|---|
| Power consumption | 23 W |
| Dimension (approx., including projections) | AEP, UK model: Approx. 430×125×375 mm (w/h/d) (17×5×14 7/8 inches) US, Canadian model: Approx. 470×125×375 mm (w/h/d) (18 5/8×5×14 7/8 inches) |
| Weight | AEP, UK model: Approx. 11 kg (24 lbs 4 oz) US, Canadian model: Approx. 12 kg (26 lbs 7.3 oz) |

Remote commander (RM-D991)

| | |
|-----------------------|--|
| Remote control system | Infrared control |
| Power requirements | 3V DC with two batteries size AA (IEC designation R6) |
| Dimensions | Approx. 62×18×175 mm (w/h/d) (2 1/2×23/32×7 inches) |
| Weight | Approx. 130 g (4.6 oz) Including batteries |

Supplied accessories

| | |
|--------------------------|---------------------------------|
| Connecting cord | 1 (2 phono plugs→2 phono plugs) |
| Remote commander | 1 |
| Sony SUM-3(NS) batteries | 2 |
| Screws | 8 (US, Canadian model) |

Design and specifications are subject to change without notice.

COMPACT DISC PLAYER
SONY®

SAFETY CHECK-OUT (US Model)

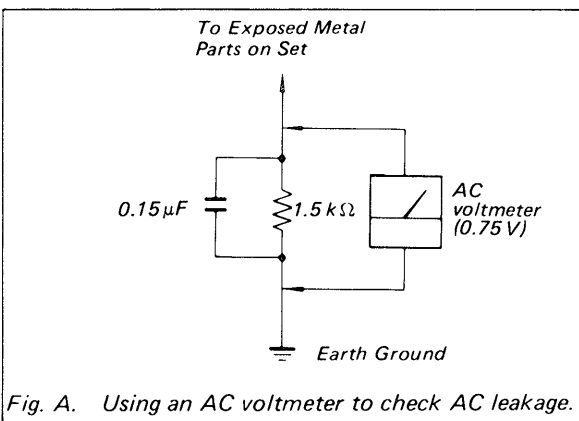
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

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.

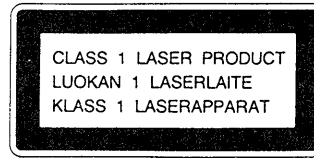
1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means 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)



SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle 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.

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.

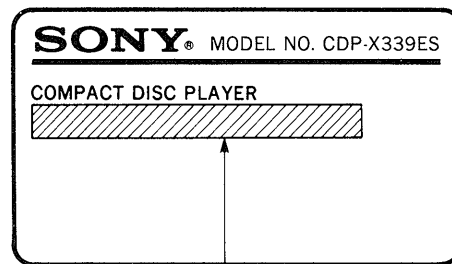
The flexible board is easily damaged and should be handled with care.

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.

MODEL IDENTIFICATION

—Model Number Label—



US, CND model: AC: 120V 60Hz 23W
 AEP model: AC: 220~230V~50/60Hz
 UK model: AC: 240V~50/60Hz

CND : Canadian model

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

This section is extracted from instruction manual.

SECTION 1 GENERAL

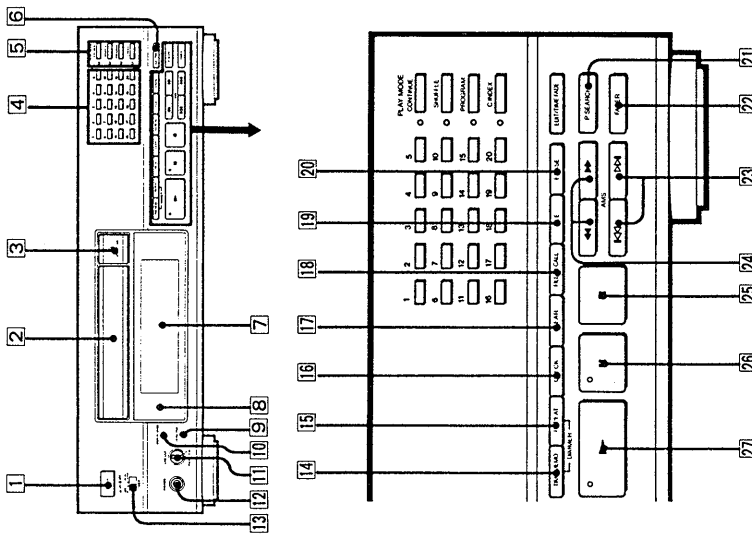
1-1. IDENTIFYING THE PARTS

Front Panel

Refer to the pages indicated in () for details.

- 1. POWER switch (22)
- 2. Disc tray (22)
- 3. OPEN/CLOSE button (22)
- 4. Numeric buttons (26)
- 5. PLAY MODE buttons CONTINUE button and indicator (22)
- 6. SHUFFLE button and indicator (22)
- 7. PROGRAM button and indicator (46)
- 8. (custom) INDEX button and indicator (92)
- 9. EDIT/TIME FADE button (70)
- 10. Display window (24)
- 11. Remote sensor
- 12. LEVEL FILE button (98)
- 13. DISPLAY MODE button (24)
- 14. LINE OUT/PHONE LEVEL control (22)
- 15. PHONES jack (22)
- 16. TIMER/MEMO button (24)
- 17. REPEAT button (42)
- 18. CHECK (program check) button (46)
- 19. CLEAR (program clear) button (36, 46)
- 20. FILE RECALL button (78)
- 21. FILE (custom file) button (78)
- 22. ERASE (memory erase) button (78)
- 23. P. (peak) SEARCH button (74)
- 24. FADER (fade in/lade out) button (72)
- 25. AMS* buttons (26)
- 26. (stop) button (22)
- 27. (pause) button and indicator (22)
- 28. (play) button and indicator (22)

* AMS is the abbreviation of Automatic Music Sensor.



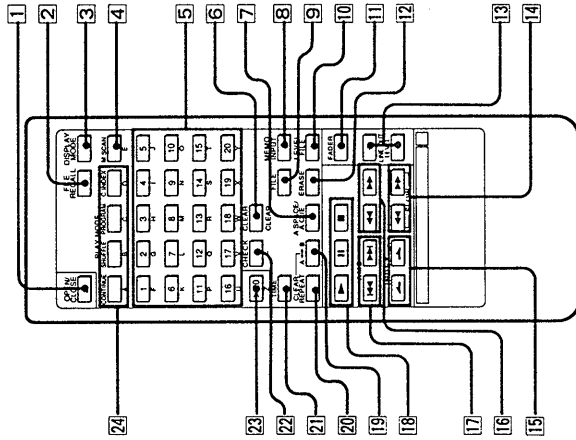
Remote Commander

Refer to the pages indicated in () for details.

- 1. OPEN/CLOSE button (22)
- 2. FILE RECALL button (78)
- 3. DISPLAY MODE button (24)
- 4. M. SCAN button (38)
- 5. Numeric buttons (26)
- 6. CLEAR button (36, 46)
- 7. A. SPACE (auto space)/A.CUE (auto cue) button (30, 72)
- 8. MEMO INPUT button (80)
- 9. FILE (custom file) button (78)
- 10. LEVEL FILE button (98)
- 11. FADER (fade in/lade out) button (72)
- 12. ERASE button (78)
- 13. LINE OUT LEVEL (line out/headphones level) buttons (22)
- 14. SLOW (low speed manual search) buttons (28)
- 15. INDEX buttons (28)
- 16. (manual search) buttons (28)
- 17. AMS* buttons (26)
- 18. (stop) button (22)
- 19. (pause) button (22)
- 20. (play) button (22)
- 21. A. + B repeat button (44)
- 22. REPEAT (repeat/A-B repeat clear) button (42)
- 23. TIME button (24)
- 24. CHECK button (46)
- 25. > 20 (over 20) button (26)
- 26. PLAY MODE buttons CONTINUE button (22)
- 27. SHUFFLE button (32)
- 28. PROGRAM button (46)
- 29. INDEX button (92)

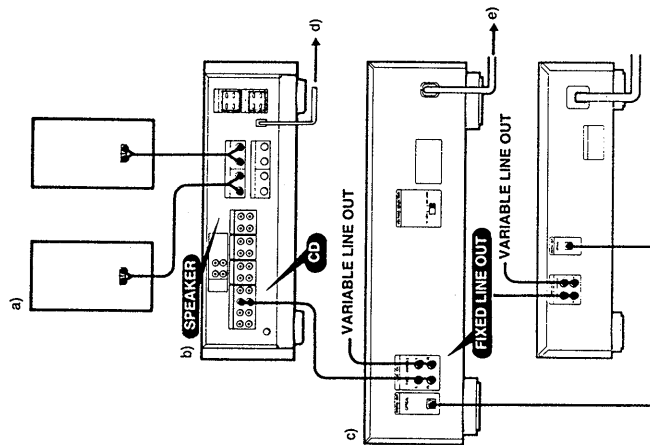
Buttons with orange letters (A, B, +, -) are for writing a disc memo (page 80).

*AMS is the abbreviation of Automatic Music Sensor.



1-2. HOOKING UP THE SYSTEM

A



Connecting Directly to an Amplifier

Proceed as shown in Fig. A1.

- a) Speaker system
- b) Amplifier
- c) Player
- d) to a wall outlet
- e) to an AC outlet

Note on LINE OUT

FIXED: The output level is fixed. **VARIABLE:** The output level can be adjusted with the LINE OUT/PHONE LEVEL control or LINE OUT LEVEL on the remote commander.

- Connect your system to the VARIABLE output when using Level files.
- Note, if the LINE OUT/PHONE LEVEL control or the LINE OUT LEVEL on the remote commander is turned while recording, the recording level will change even when it is preset on the tape deck.

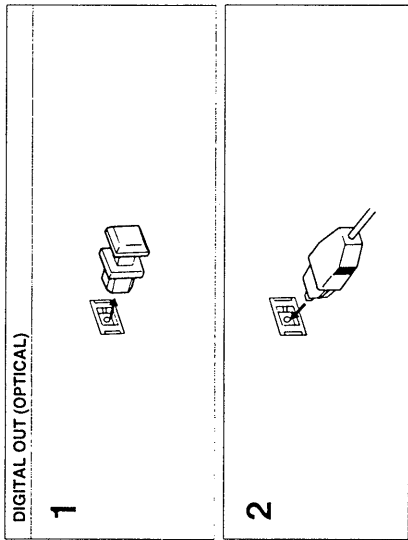
Amplifier or D/A converter

When connecting to an amplifier or D/A converter with OPTICAL IN, use DIGITAL OUT (OPTICAL) instead of LINE OUT. See the figures on the left.

- 1 Take off the cap.
- 2 Plug in firmly.

Note on DIGITAL OUT (OPTICAL)

When connecting with DIGITAL OUT (OPTICAL), use the POC-15 audio optical connecting cord (not supplied). Please note that when the digital out is connected, fade out, fade in, time fade and level file functions cannot be used.

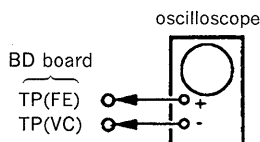


SECTION 2 ELECTRICAL BLOCK CHECKING

Note :

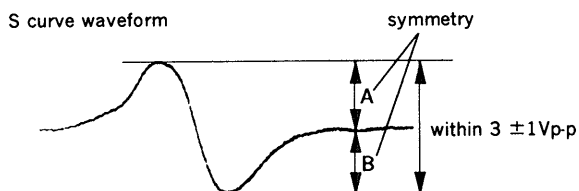
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal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

S Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FE) on BD board.
2. Connect between test point TP (FEI) and TP (VC) with lead wire.
3. Turned Power switch on and actuate the focus search. (actuate the focus search 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 $3 \pm 1V_{p-p}$.

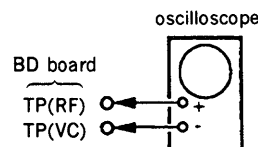


5. After check, remove the lead wire connected in step 2.

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

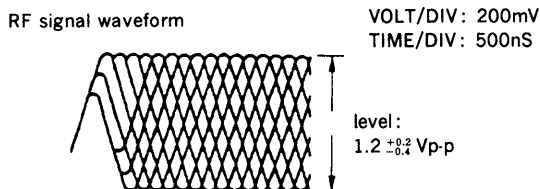


Procedure :

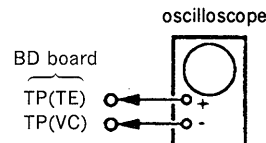
1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

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

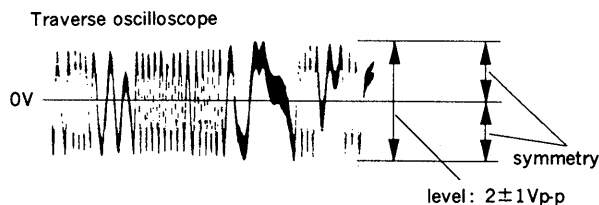


E-F Balance Check



Procedure :

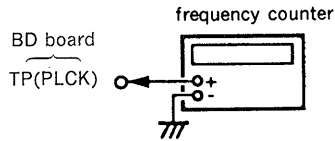
1. Connect test point TP (ADJ) to ground and TP (TEI) to TP (VC) with lead wires.
2. Connect oscilloscope to test point TP (TE) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V,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



6. Remove the lead wires connected in step 1.

RF PLL Free-run Frequency Check**Procedure :**

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



2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that reading on frequency counter is 4.3218MHz.

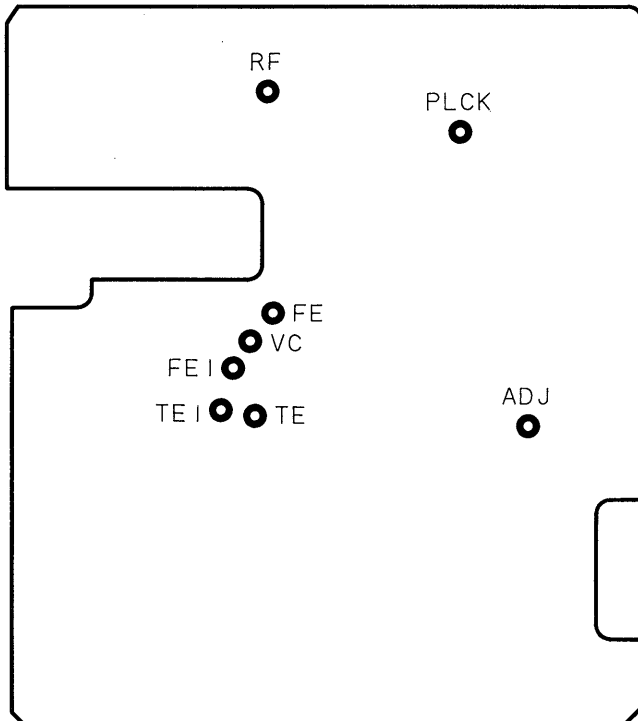
Focus/Tracking Gain

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

There is no problem.

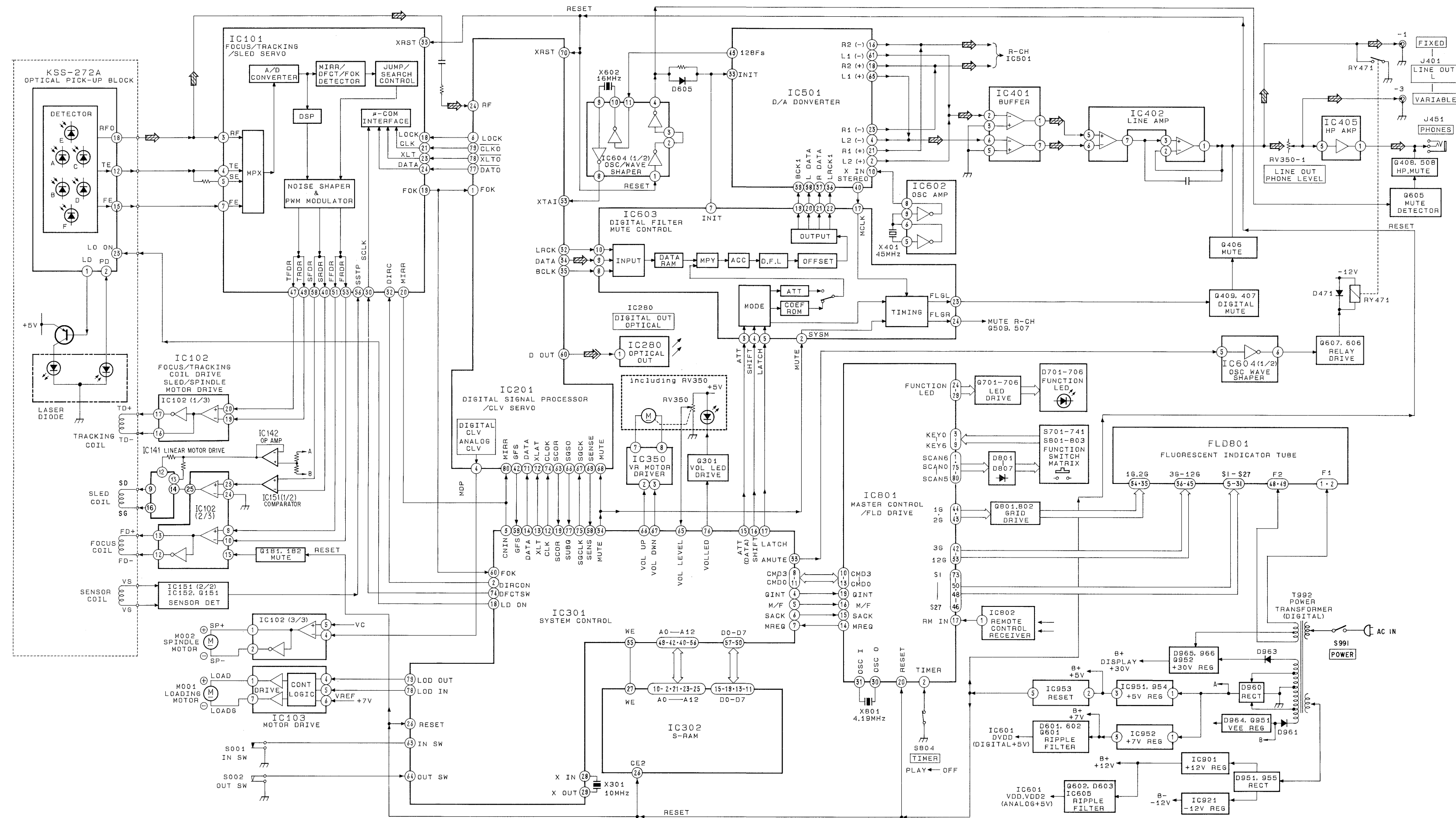
Therefore, do not perform, this adjustment.

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

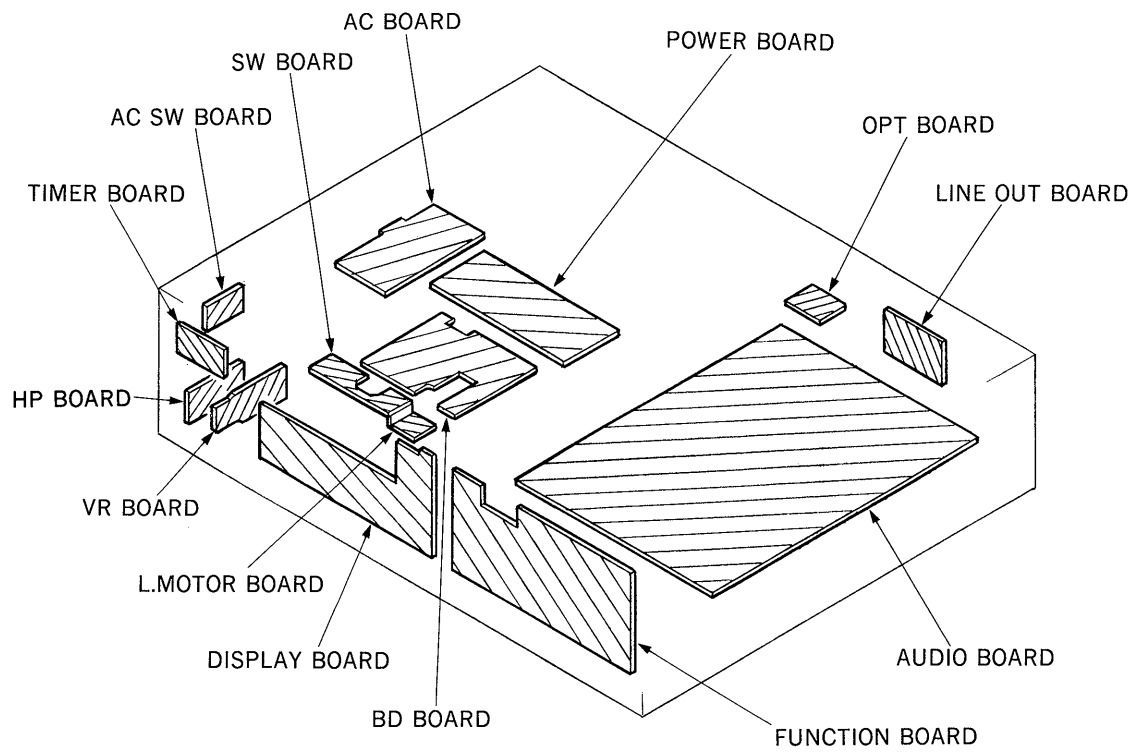
Check Point Location : BD board—side A—

**SECTION 3
DIAGRAMS**

3-1. BLOCK DIAGRAM



3-2. CIRCUIT BOARDS LOCATION

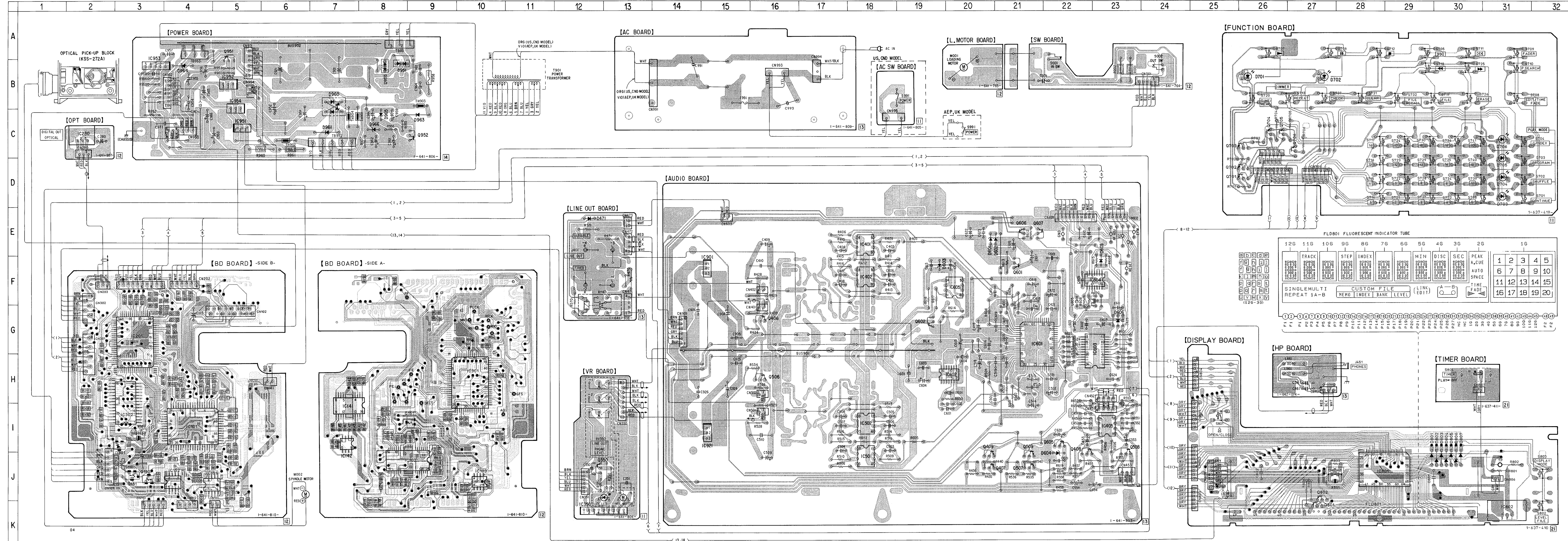


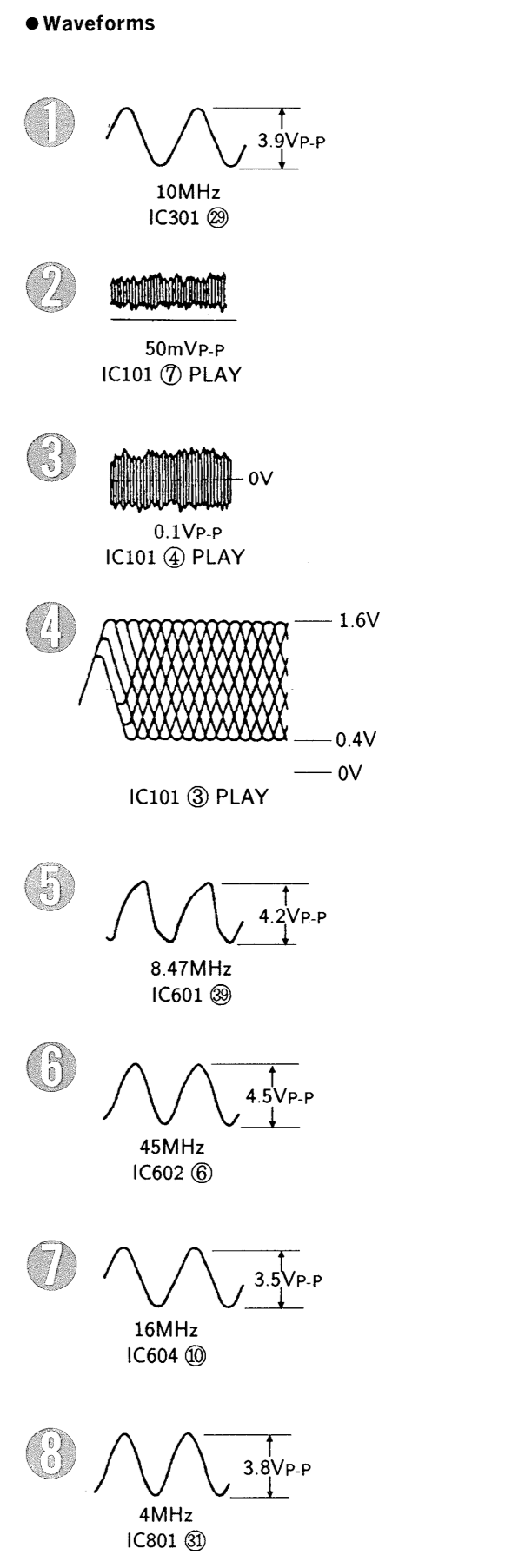
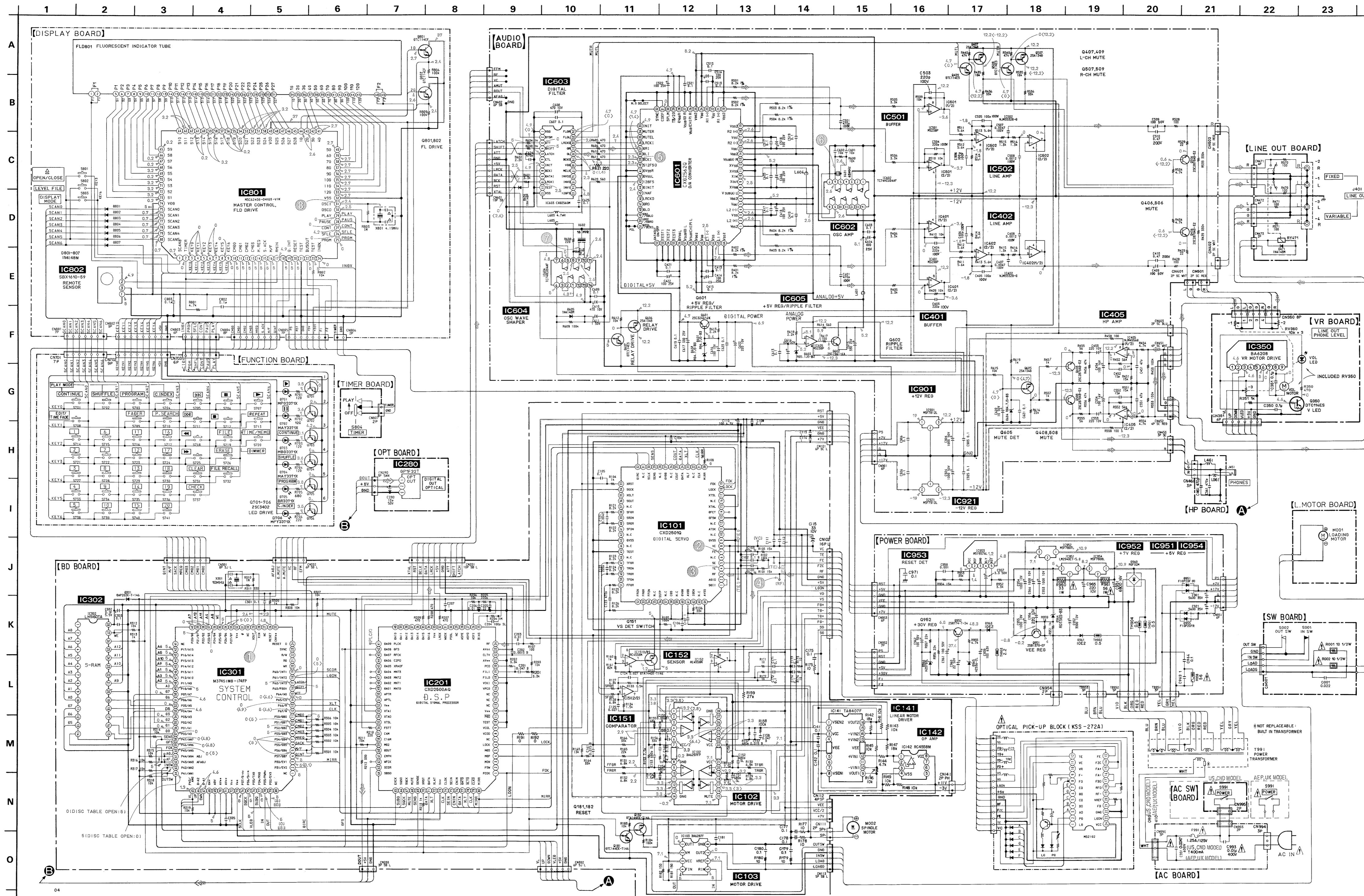
● Semiconductor Location

| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D301 | I-3 | IC405 | I-23 |
| D471 | E-12 | IC501 | J-18 |
| D601 | E-20 | IC502 | I-18 |
| D602 | E-20 | IC601 | G-21 |
| D603 | F-19 | IC602 | H-20 |
| D604 | I-22 | IC603 | G-22 |
| D605 | F-23 | IC604 | F-22 |
| D606 | G-23 | IC605 | F-20 |
| D701 | B-26 | IC801 | J-28 |
| D702 | B-27 | IC802 | K-31 |
| D703 | D-31 | IC901 | F-15 |
| D704 | D-31 | IC921 | I-15 |
| D705 | D-31 | IC951 | C-5 |
| D706 | C-31 | IC952 | B-5 |
| D801 | J-29 | IC953 | B-3 |
| D802 | J-29 | IC954 | B-5 |
| D803 | J-30 | | |
| D804 | J-30 | Q151 | I-9 |
| D805 | J-30 | Q181 | J-3 |
| D806 | J-30 | Q182 | J-3 |
| D807 | J-30 | Q350 | J-12 |
| D951 | B-8 | Q406 | G-16 |
| D955 | B-8 | Q407 | J-20 |
| D960 | B-7 | Q408 | I-22 |
| D961 | C-7 | Q409 | I-20 |
| D963 | C-9 | Q506 | H-16 |
| D964 | B-4 | Q507 | J-21 |
| D965 | C-8 | Q508 | I-23 |
| D966 | C-8 | Q509 | I-21 |
| | | Q601 | F-21 |
| IC101 | I-4 | Q602 | G-19 |
| IC102 | J-8 | Q605 | I-22 |
| IC103 | J-10 | Q606 | E-21 |
| IC141 | I-7 | Q607 | E-21 |
| IC142 | I-7 | Q701 | D-25 |
| IC151 | J-4 | Q702 | D-25 |
| IC152 | J-4 | Q703 | C-25 |
| IC201 | G-3 | Q704 | C-26 |
| IC280 | C-2 | Q705 | C-26 |
| IC301 | H-10 | Q706 | C-27 |
| IC302 | H-3 | Q801 | K-27 |
| IC350 | K-12 | Q802 | J-27 |
| IC401 | E-18 | Q951 | A-5 |
| IC402 | F-18 | Q952 | C-9 |

Note:
 ● : parts extracted from the component side.
 ● : Through hole.
 ● : Pattern on the side which is seen.
 ● : Pattern of the rear side.
 ● CND : Canadian model

3-3. PRINTED WIRING BOARDS ● Refer to page 21 for Semiconductor Lead Layouts.





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 Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- \square : nonflammable resistor.
- \square : fusible resistor.

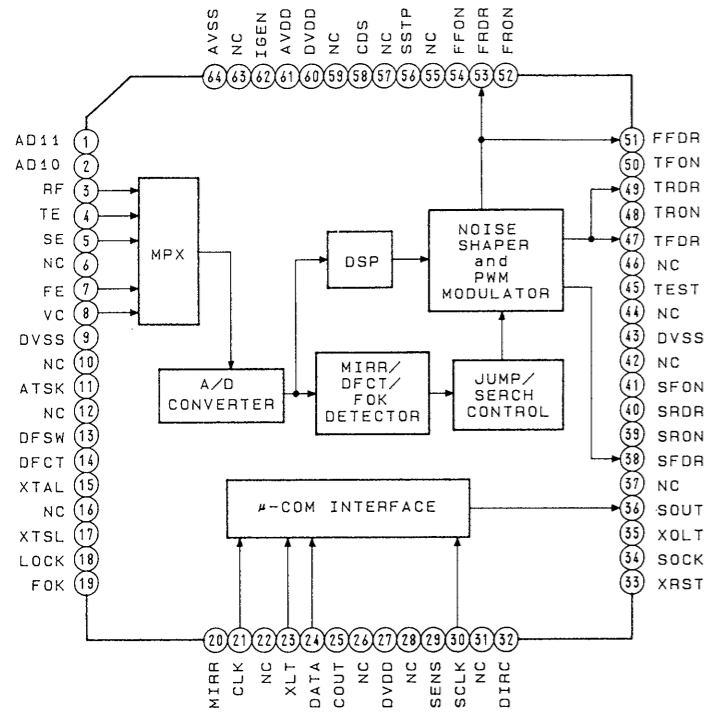
Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

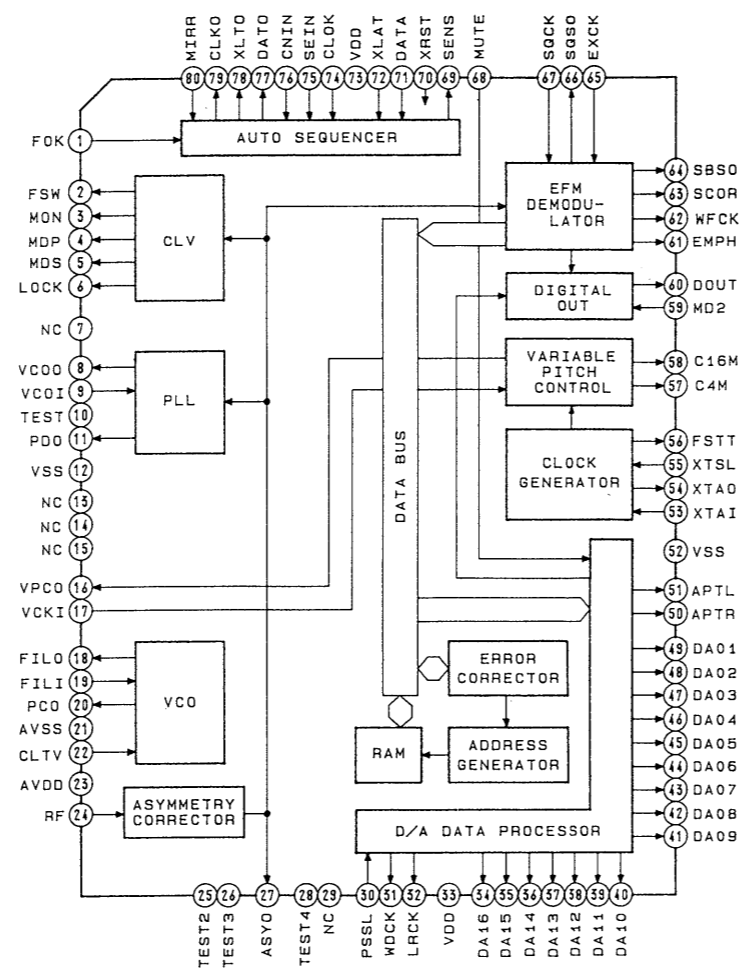
- B+ Line
- B- Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark: STOP
- () : LOAD OUT MOVING
- () : LOAD IN MOVING
- < > : PLAY
- Voltages are taken with a VOM (Input Impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- \square : CD
- \square : digital out
- CND: Canadian model

● IC Block Diagrams

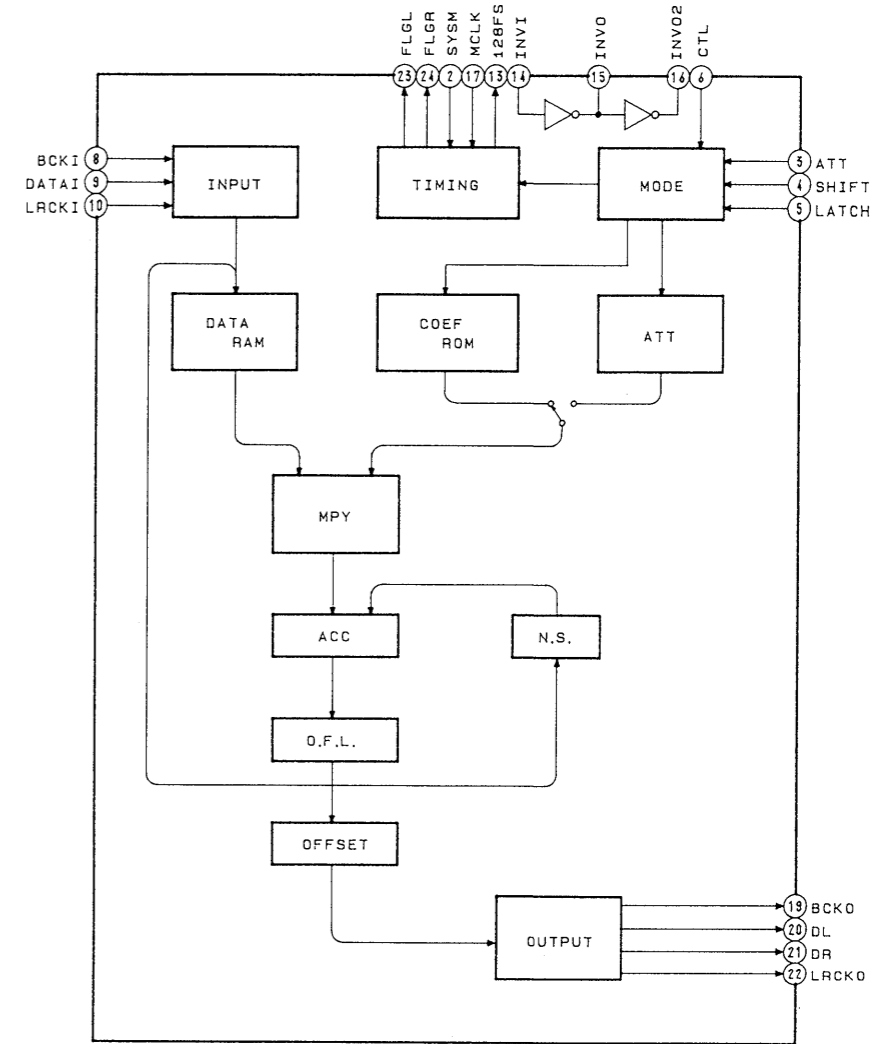
IC101 CXD2501Q



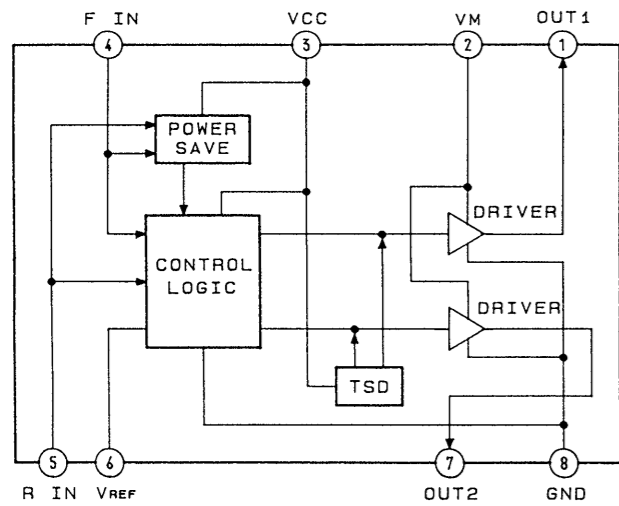
IC201 CXD2500AQ



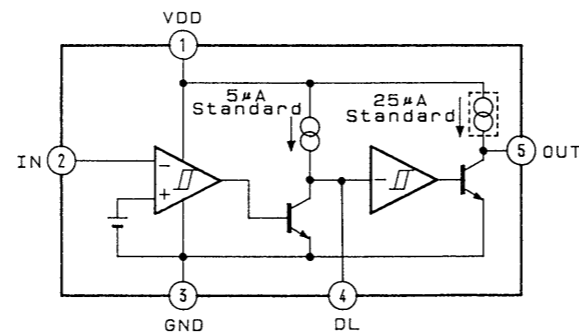
IC603 CXD2560M



IC102 BA6297FP

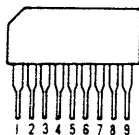


IC953 M51957AL

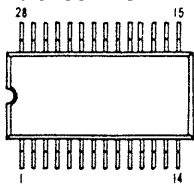


3-5. SEMICONDUCTOR LEAD LAYOUTS

BA6208

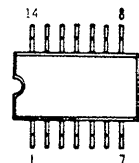


LH5160N-10L



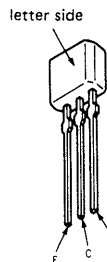
(TOP VIEW)

TC74HCU04AF

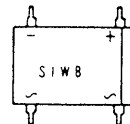


(TOP VIEW)

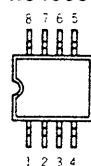
2SC3246-JK



RDF02M

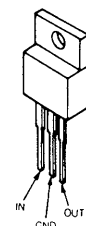


**BA6287F
RC4558M**

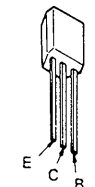


(TOP VIEW)

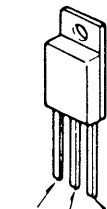
**LM2940CT-5.0
M5F7807
M5F7808
TA7812S**



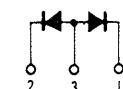
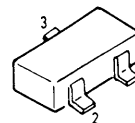
**DTA114ES
DTC114ES**



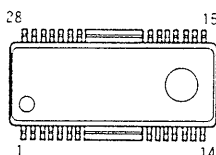
F10P20F (R)



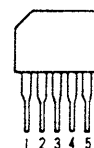
1S2836



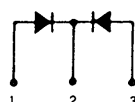
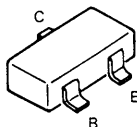
BA6297FP



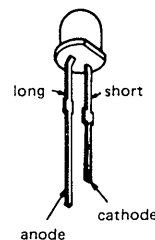
M51957AL



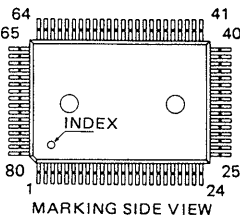
**DTA144EK
DTC144EK**



**BR3371X
MAY3371X-M-177
MBG3371X
MPG3371X-150
MPY3371X-177**

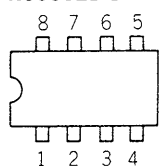


**CXD2500AQ
MSC62408-041GS-V1K
M37451M8-174FP**

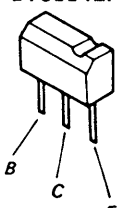


MARKING SIDE VIEW

**M5238P
RC4556D
RC5532D-D**

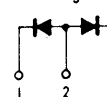
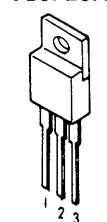


DTC114EF

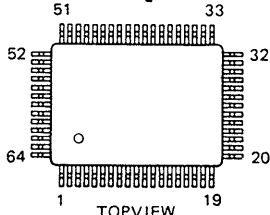


2SB1370-EF

F10P20FR

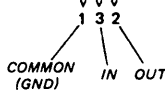
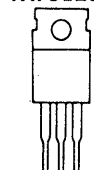


**CXD2501Q
CXD2562Q**

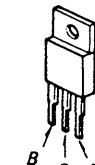
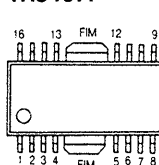


TOPVIEW

TA7912S

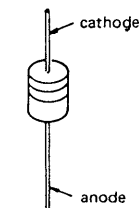


TA8407F

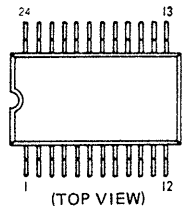


**2SC1941-KA
2SD774-34**

**HZS7B3L
RD4.7JS-B3
RD5.1JS-B2
RD7.5ES-B3**



CXD2560M

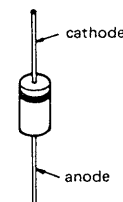


(TOP VIEW)

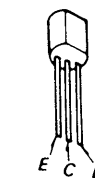
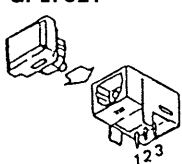


2SC2878-AB

**HZ36-2L
1N4148M
10E2**



GP1F32T



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.

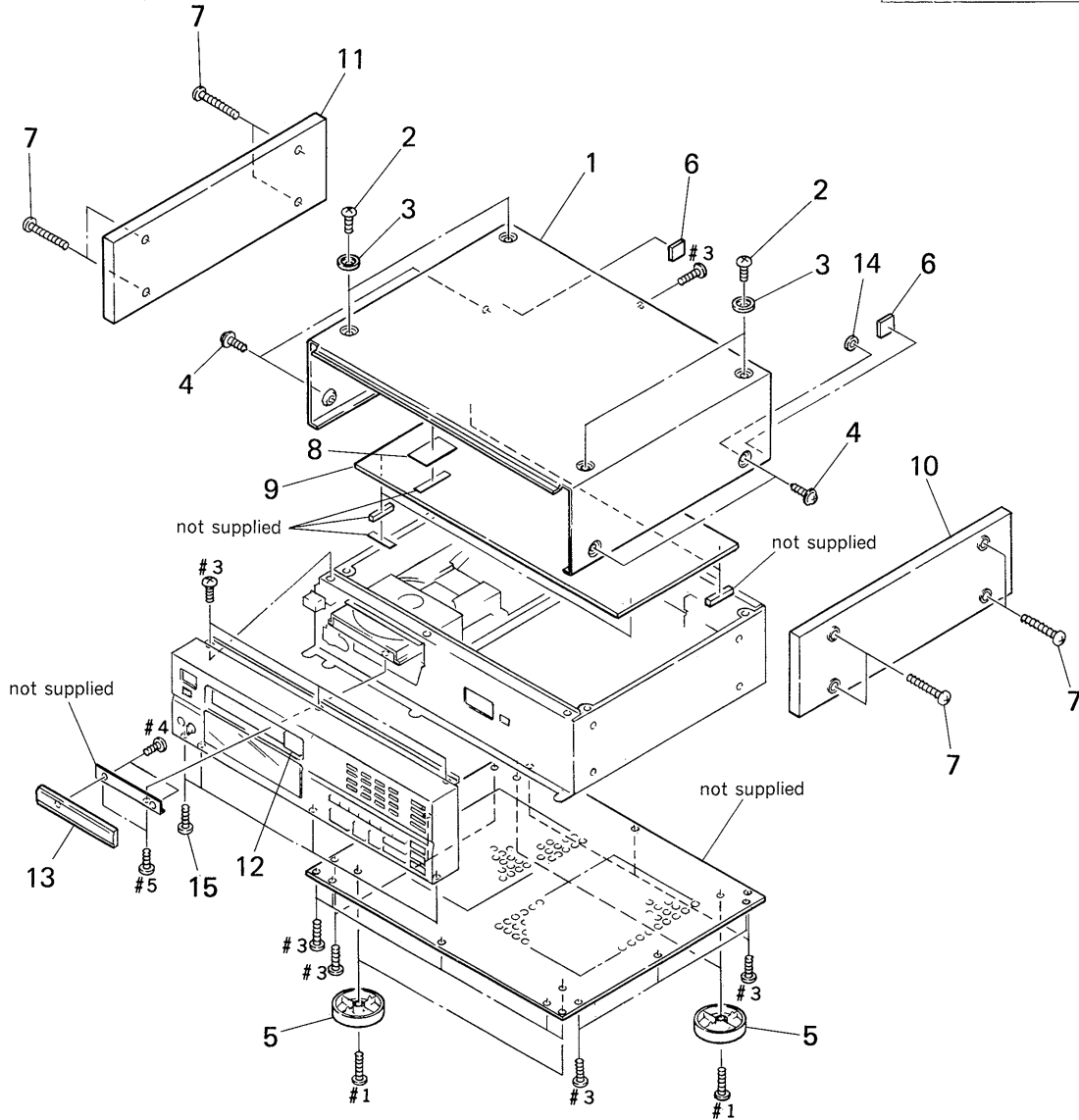
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
Example :
KNOB, BALANCE (WHITE)...(RED)
 ↑ ↑
 Parts Color Cabinet's Color

- 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.

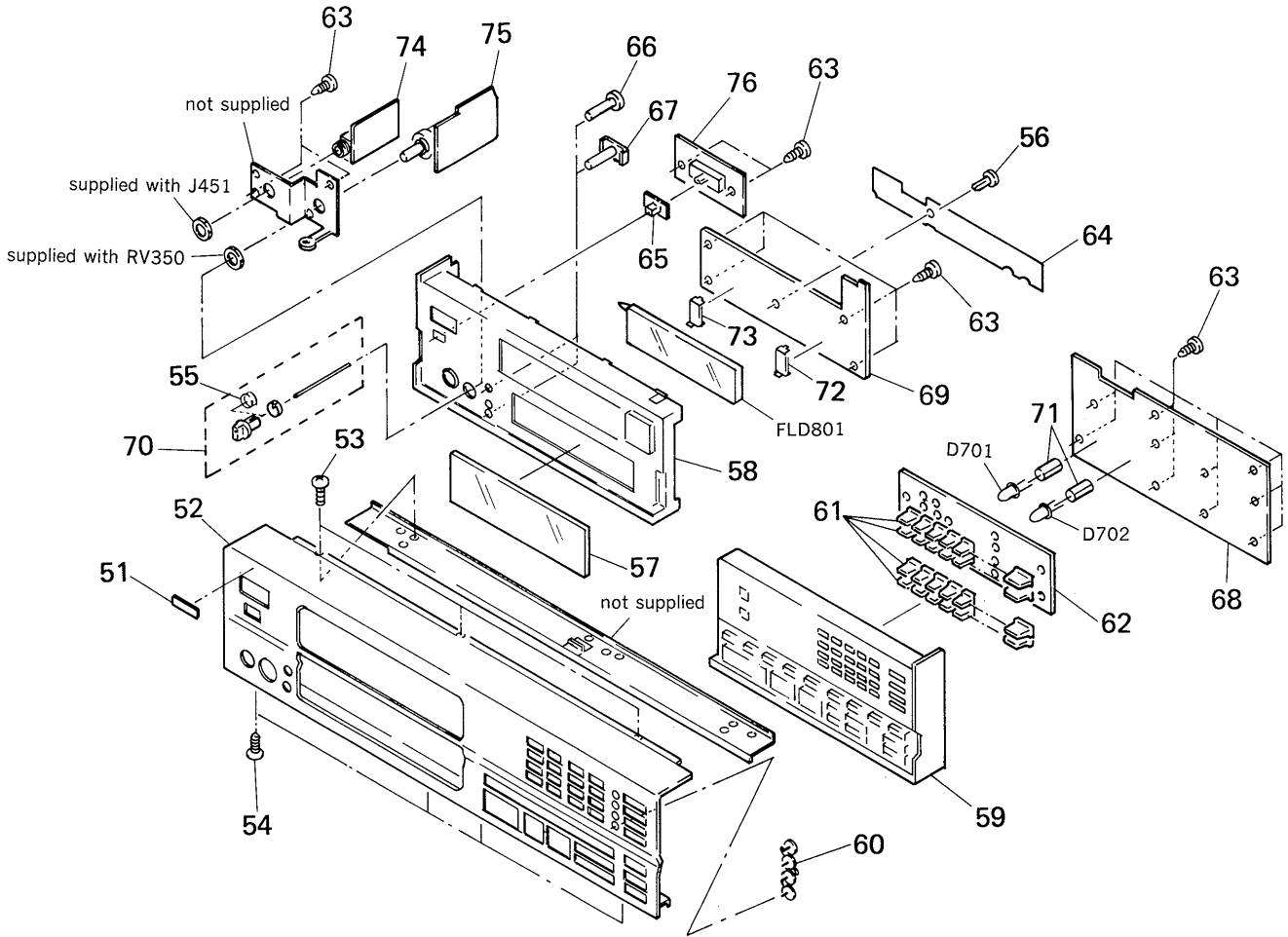
Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-1. CABINET SECTION



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-----------------------------|--------|----------|--------------|---|--------|
| 1 | 4-934-043-01 | CASE (UK) | | * 8 | 4-923-563-11 | CUSHION | |
| * 1 | 4-934-043-41 | CASE (US, Canadian, AEP) | | 9 | A-4675-309-A | REINFORCEMENT (TOP PLATE) ASSY | |
| 2 | 4-924-242-11 | SCREW (M3X6), FLAT HEAD | | 10 | X-4928-002-1 | PLATE (RIGHT) ASSY, SIDE (US, Canadian) | |
| 3 | 4-928-025-11 | ESCUTCHEON (TOP PLATE) | | 11 | X-4928-001-1 | PLATE (LEFT) ASSY, SIDE (US, Canadian) | |
| 4 | 4-847-802-00 | SCREW (AEP, UK) | | 12 | X-4941-988-1 | BUTTON (OPEN/CLOSE) ASSY | |
| 5 | X-4941-014-1 | FOOT ASSY (AEP, UK) | | 13 | X-4941-991-1 | PANEL ASSY, LOADING | |
| 5 | X-4941-550-1 | FOOT ASSY (US, Canadian) | | 14 | 4-935-917-01 | WASHER (CASE) | |
| * 6 | 4-929-007-01 | CUSHION (CASE) | | 15 | 4-929-074-01 | SCREW (3X8) | |
| 7 | 4-885-979-11 | SCREW (4X25) (US, Canadian) | | | | | |

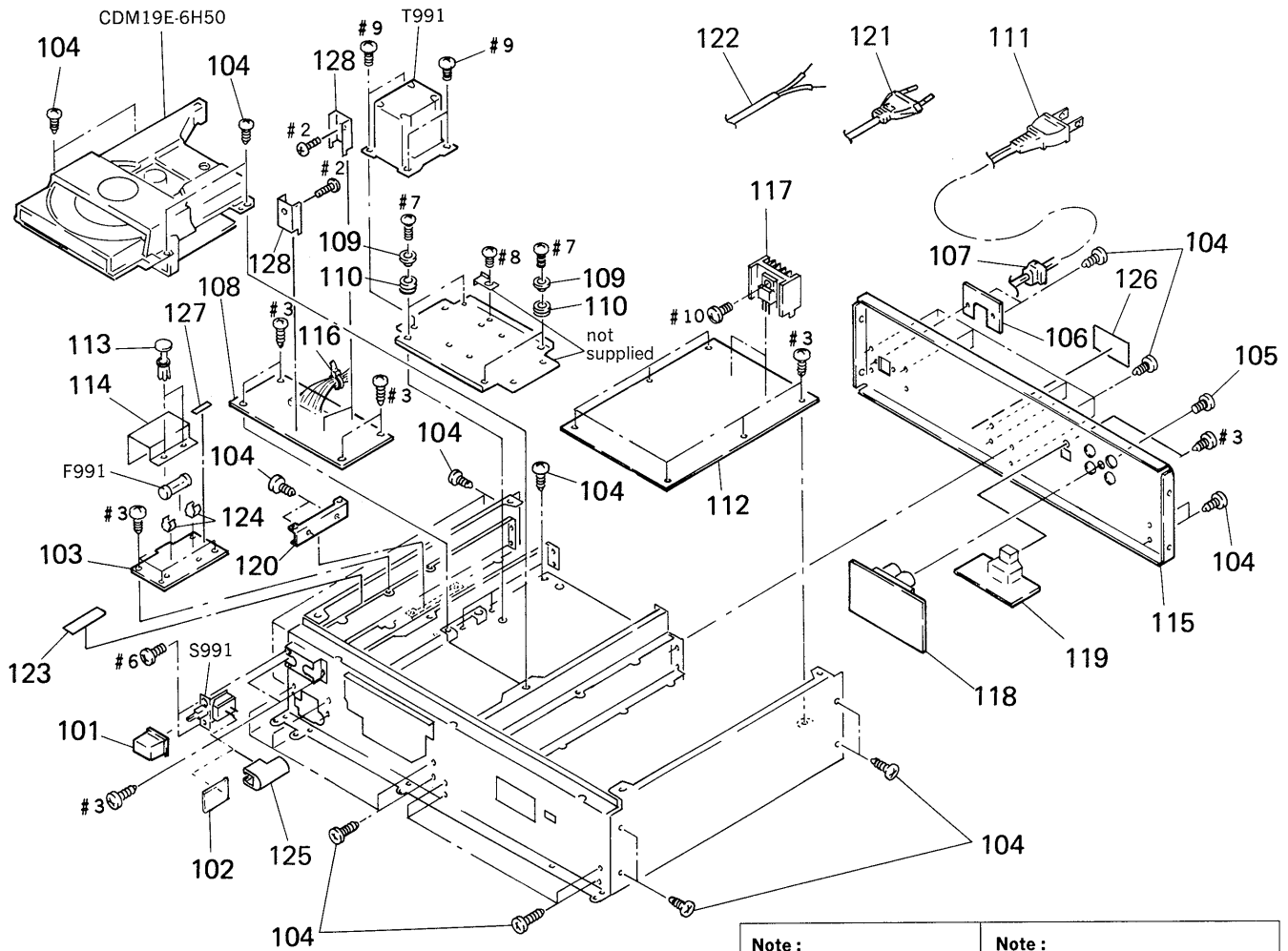
4-2. FRONT PANEL SECTION







| Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------------------------|--------|
| 51 | 4-908-848-01 | EMBLEM, SONY | |
| 52 | 4-948-008-01 | PANEL (FRONT) | |
| 53 | 3-703-685-21 | SCREW (+BV 3X8) | |
| 54 | 4-929-074-01 | SCREW (3X8) | |
| 55 | 4-948-469-01 | SPRING, RING | |
| 56 | 3-531-576-11 | RIVET | |
| 57 | 4-941-087-01 | PLATE, INDICATION | |
| 58 | X-4941-990-1 | PANEL (L) ASSY | |
| 59 | X-4941-013-1 | PANEL (R) ASSY | |
| 60 | 4-941-093-01 | INDICATOR | |
| 61 | 4-941-079-01 | BUTTON (20 KEY) | |
| * 62 | 4-941-092-01 | ABSORBENT (20 KEY), VIBRATION | |
| 63 | 4-951-620-01 | SCREW (2. 6X8), +BVTP | |
| * 64 | 4-941-220-01 | COVER (CABLE) | |
| 65 | 4-922-518-11 | KNOB (TIMER) | |







| Ref. No. | Part No. | Description | Remark |
|----------|--------------|----------------------------------|--------|
| 66 | 4-941-084-01 | BUTTON (DISPLAY MODE) | |
| 67 | 4-941-085-01 | BUTTON (LEVEL FILE) | |
| * 68 | 1-637-419-11 | FUNCTION BOARD | |
| * 69 | 1-637-410-11 | DISPLAY BOARD | |
| 70 | A-4604-901-A | KNOB (LINE OUT/PHONE LEVEL) ASSY | |
| * 71 | 4-923-532-21 | SPACER, LED | |
| * 72 | 4-928-052-01 | HOLDER (RIGHT) | |
| * 73 | 4-928-053-01 | HOLDER (LEFT) | |
| * 74 | 1-642-074-11 | HP BOARD | |
| * 75 | 1-641-804-11 | VR BOARD | |
| * 76 | 1-637-411-11 | TIMER BOARD | |
| D701 | 8-719-970-07 | LED MPG3371X-150 (▶) | |
| D702 | 8-719-971-52 | LED MAY3371X-M-177 (■) | |
| FLD801 | 1-519-622-11 | INDICATOR TUBE, FLUORESCENT | |

4-3. CHASSIS SECTION

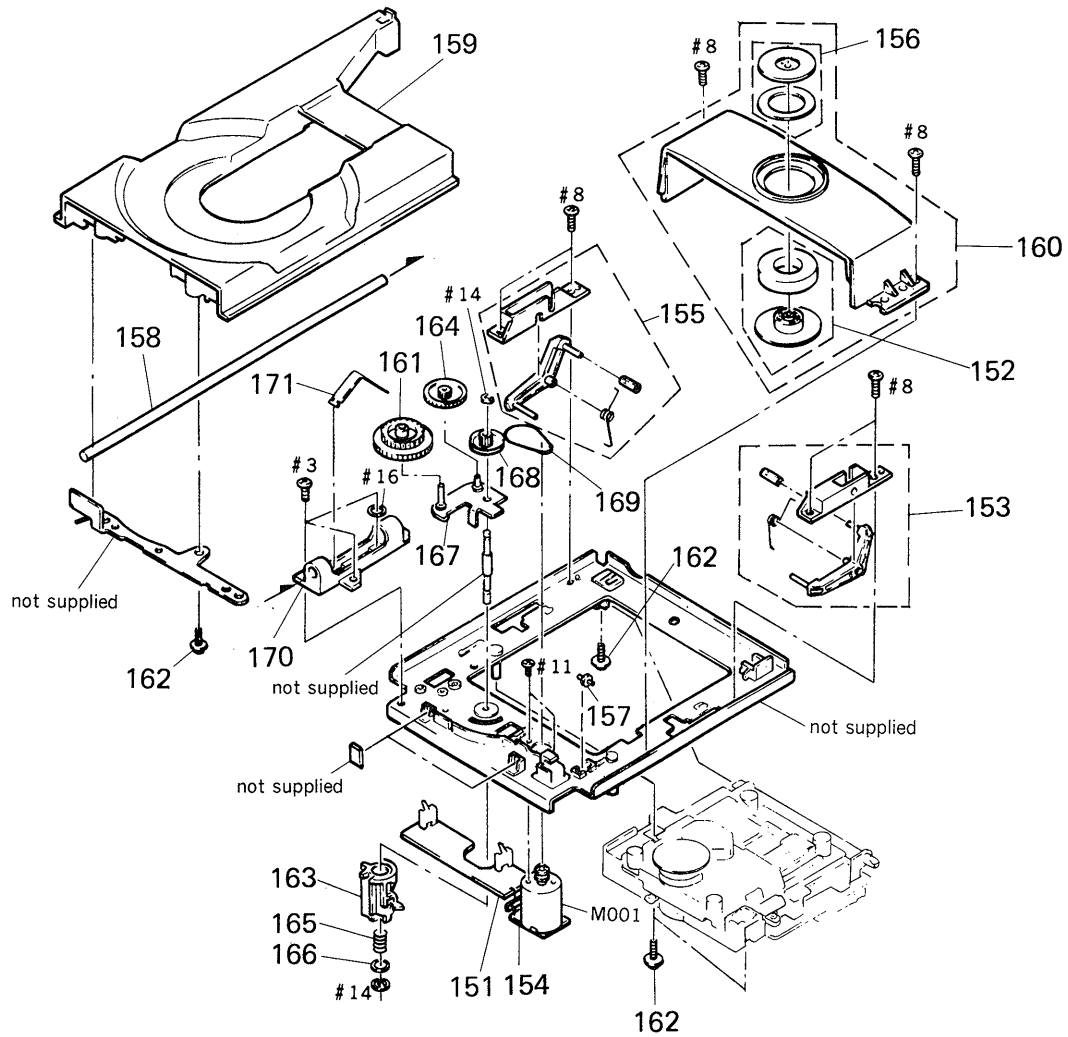


| | |
|--|--|
| <p>Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.</p> | <p>Note: Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p> |
|--|--|

| Ref. No. | Part No. | Description | Remark |
|---|----------|---|--------|
| | 101 | 4-923-520-51 KNOB (POWER) | |
| * | 102 | 1-641-805-11 AC SW BOARD (US, Canadian) | |
| * | 103 | 1-641-809-11 AC BOARD | |
| | 104 | 4-929-074-01 SCREW (3X8) | |
| | 105 | 3-703-685-21 SCREW (+BV 3X8) | |
| * | 106 | 4-923-873-01 BRACKET, CORD STOPPER | |
| * | 107 | 3-703-244-00 BUSHING (2104), CORD | |
| * | 108 | A-4649-346-A POWER BOARD, COMPLETE | |
| | 109 | 4-928-032-01 COLLAR (A) | |
| * | 110 | 4-888-798-00 BUSHING, RUBBER | |
|  | 111 | 1-559-583-21 CORD, POWER (US, Canadian) | |
| * | 112 | A-4649-345-A AUDIO BOARD, COMPLETE | |
| | 113 | 3-531-576-11 RIVET | |
| * | 114 | 4-949-240-01 COVER (POWER PCB) | |
| * | 115 | 4-948-005-01 PANEL, BACK (AEP, UK) | |
| * | 115 | 4-948-005-32 PANEL, BACK (US) | |
| * | 115 | 4-948-005-41 PANEL, BACK (Canadian) | |
| | 116 | 3-655-653-21 BAND (TAITON), BINDING | |
| * | 117 | 4-363-146-00 HEAT SINK, V. OUT | |

| Ref. No. | Part No. | Description | Remark |
|---|----------|---|--------|
| * | 118 | 1-641-808-11 LINE OUT BOARD | |
| * | 119 | 1-641-807-11 OPT BOARD | |
| * | 120 | 4-941-636-11 BRACKET (PCB-R2) | |
|  | 121 | 1-558-568-21 CORD, POWER (AEP) | |
|  | 122 | 1-559-555-21 CORD, POWER (UK) | |
| | 123 | 3-831-441-XX CUSHION | |
| * | 124 | 1-533-183-11 HOLDER, FUSE | |
| | 125 | 3-575-524-00 COVER, POWER SWITCH (AEP, UK) | |
| * | 126 | 4-941-548-01 LABEL, CLASS 1 (AEP, UK) | |
| * | 127 | 3-701-948-10 LABEL (T400MA), FUSE (AEP, UK) | |
| * | 127 | 3-703-044-26 LABEL, CAUTION (US, Canadian) | |
| * | 128 | 4-941-237-01 HEAT SINK | |
|  | F991 | 1-532-066-00 FUSE, TIME-LAG (T400mA) (AEP, UK) | |
|  | F991 | 1-532-741-11 FUSE, GLASS TUBE (1.25A/125V) (US, Canadian) | |
|  | S991 | 1-570-156-11 SWITCH, PUSH (AC POWER) (1 KEY) (POWER) | |
|  | T991 | 1-450-891-11 TRANSFORMER, POWER (US, Canadian) | |
|  | T991 | 1-450-892-11 TRANSFORMER, POWER (AEP, UK) | |

4-4. CD MECHANISM BLOCK SECTION
(CDM19E-6H50)

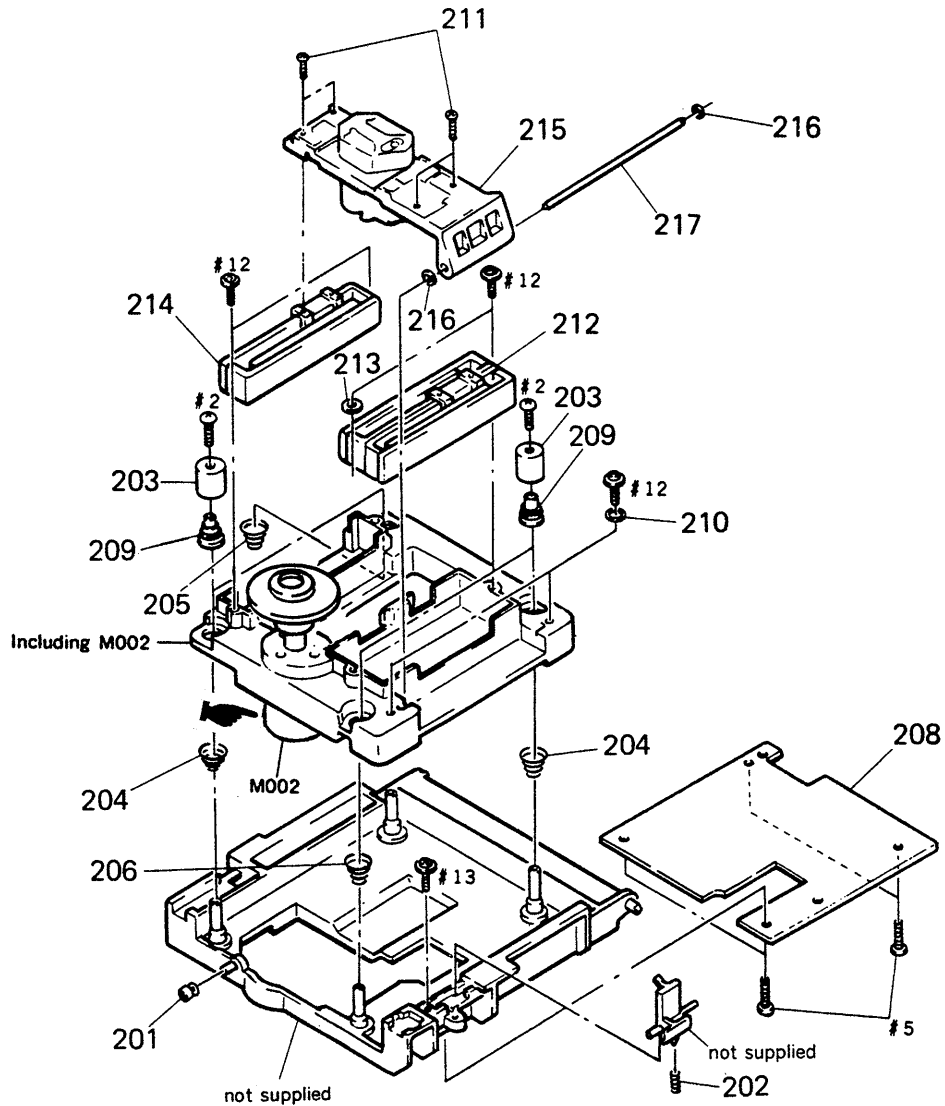


| Ref. No. | Part No. | Description | Remark |
|----------|--------------|-----------------------|--------|
| * 151 | 1-641-764-11 | SW BOARD | |
| * 152 | 4-918-679-04 | PULLEY, PRESS | |
| 153 | A-4604-914-A | LOCK (R) ASSY, STABLE | |
| * 154 | 1-641-765-11 | L. MOTOR BOARD | |
| 155 | A-4604-913-A | LOCK (L) ASSY, STABLE | |
| 156 | A-4665-024-A | MAGNET ASSY | |
| 157 | 4-927-627-01 | ROLLER (S, G) | |
| * 158 | 4-948-368-01 | BAR (MAIN), GUIDE | |
| 159 | 4-948-353-01 | TABLE, DISK | |
| 160 | A-4604-911-A | HOLDER (A. P.) ASSY | |
| 161 | 4-927-620-01 | GEAR (P) | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------|--------|
| * 162 | 4-917-583-21 | BRACKET, YOKE | |
| * 163 | 4-948-371-01 | CAM (BU) | |
| 164 | 4-927-628-01 | GEAR (C) | |
| 165 | 3-659-338-00 | SPRING, COMPRESSION | |
| 166 | 4-927-654-01 | WASHER (LIMITER) | |
| 167 | X-4927-608-1 | ARM ASSY, SWING | |
| 168 | 4-929-724-01 | PULLEY (B) | |
| 169 | 4-927-649-01 | BELT | |
| * 170 | 4-948-360-01 | BEARING, LOADING | |
| * 171 | 4-927-648-01 | SLIDER (GROUND) | |
| M001 | A-4604-347-A | MOTOR (L) ASSY | |

REVISED

4-5. BASE UNIT SECTION
(BU-6H)



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

Note:
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref. No. | Part No. | Description | Remark |
|----------------|-------------------------|---------------------------------|--------|
| 201 | 4-927-631-01 | ROLLER (L) | |
| 202 | 3-305-423-00 | SPRING, COMPRESSION | |
| 203 | 4-927-634-01 | HOLDER (SP) | |
| 204 | 4-917-572-01 | SPRING (B) | |
| 205 | 4-917-571-01 | SPRING (A) | |
| 206 | 4-917-573-01 | SPRING (E) | |
| 207 | 4-922-671-02 | MECHANISM BASE (M.6) | |
| * 208 | A-4649-007-A | BD BOARD, COMPLETE | |
| * 209 | 4-917-584-11 | INSULATOR | |

| Ref. No. | Part No. | Description | Remark |
|-----------------|--------------|---------------------------------------|--------|
| 210 | 4-927-318-01 | WASHER | |
| 211 | 3-318-203-61 | SCREW (B1.7X4), TAPPING | |
| 212 | A-4608-335-A | MOTOR ASSY, LINEAR (INCLUDING M002) | |
| 213 | 4-927-669-01 | WASHER (BU) | |
| 214 | A-4638-084-A | SENSOR ASSY, SPEED | |
| \triangle 215 | 8-848-244-11 | DEVICE, OPTICAL KSS-272A | |
| * 216 | 4-917-582-01 | CUSHION, SLIDE | |
| * 217 | 4-910-431-01 | SHAFT, SLIDE | |
| M002 | X-4942-963-1 | BASE ASSY, MECHANICAL (SPINDLE MOTOR) | |

SECTION 5 ELECTRICAL PARTS LIST

AC
AC SW
AUDIO

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: 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

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

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

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref. No. | Part No. | Description | Remark |
|---------------|--------------|---|------------------|
| * | 1-641-809-11 | AC BOARD ***** | |
| | 1-533-183-11 | HOLDER, FUSE | |
| | | < CAPACITOR > | |
| Δ C991 | 1-162-599-12 | CERAMIC | 0.0047uF 400V |
| Δ C993 | 1-161-744-00 | CERAMIC | 0.01uF 400V |
| | | < CONNECTOR > | |
| * CN991 | 1-535-140-00 | BASE POST 22MM (10MM PITCH) 3P | |
| CN993 | 1-564-321-00 | PIN, CONNECTOR 2P | |
| * CN994 | 1-580-230-11 | PIN, CONNECTOR (PC BOARD) 3P | |
| ***** | | | |
| * | 1-641-805-11 | AC SW BOARD (US, Canadian) ***** | |
| | | < SWITCH > | |
| Δ S991 | 1-570-156-11 | SWITCH, PUSH (AC POWER) (1 KEY) (POWER) | |
| ***** | | | |
| * | A-4649-345-A | AUDIO BOARD, COMPLETE ***** | |
| | 7-682-147-15 | SCREW, TR | |
| * | 4-363-146-00 | HEAT SINK, V. OUT | |
| | | < CAPACITOR > | |
| C401 | 1-136-812-11 | FILM | 470PF 5% 100V |
| C403 | 1-136-810-11 | FILM | 220PF 5% 100V |
| C404 | 1-136-810-11 | FILM | 220PF 5% 100V |
| C405 | 1-136-808-11 | FILM | 100PF 5% 100V |
| C406 | 1-136-808-11 | FILM | 100PF 5% 100V |
| C407 | 1-136-233-11 | FILM | 0.0047uF 2% 100V |
| C408 | 1-136-228-11 | FILM | 0.0012uF 2% 100V |
| C409 | 1-124-572-11 | ELECT | 100uF 20% 63V |
| C410 | 1-136-580-11 | FILM | 0.47uF 10% 200V |
| C413 | 1-130-495-00 | MYLAR | 0.1uF 5% 50V |
| C414 | 1-124-122-11 | ELECT | 100uF 20% 50V |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------|------------------|
| C415 | 1-130-495-00 | MYLAR | 0.1uF 5% 50V |
| C417 | 1-130-495-00 | MYLAR | 0.1uF 5% 50V |
| C418 | 1-124-122-11 | ELECT | 100uF 20% 50V |
| C419 | 1-130-495-00 | MYLAR | 0.1uF 5% 50V |
| C421 | 1-136-165-00 | FILM | 0.1uF 5% 50V |
| C422 | 1-124-122-11 | ELECT | 100uF 20% 50V |
| C451 | 1-162-215-31 | CERAMIC | 47PF 5% 50V |
| C452 | 1-162-203-31 | CERAMIC | 15PF 5% 50V |
| C453 | 1-124-995-11 | ELECT | 220uF 20% 10V |
| C454 | 1-126-023-11 | ELECT | 100uF 20% 16V |
| C501 | 1-136-812-11 | FILM | 470PF 5% 100V |
| C503 | 1-136-810-11 | FILM | 220PF 5% 100V |
| C504 | 1-136-810-11 | FILM | 220PF 5% 100V |
| C505 | 1-136-808-11 | FILM | 100PF 5% 100V |
| C506 | 1-136-808-11 | FILM | 100PF 5% 100V |
| C507 | 1-136-233-11 | FILM | 0.0047uF 2% 100V |
| C508 | 1-136-228-11 | FILM | 0.0012uF 2% 100V |
| C509 | 1-124-572-11 | ELECT | 100uF 20% 63V |
| C510 | 1-136-580-11 | FILM | 0.47uF 10% 200V |
| C513 | 1-130-495-00 | MYLAR | 0.1uF 5% 50V |
| C514 | 1-124-122-11 | ELECT | 100uF 20% 50V |
| C515 | 1-130-495-00 | MYLAR | 0.1uF 5% 50V |
| C517 | 1-130-495-00 | MYLAR | 0.1uF 5% 50V |
| C518 | 1-124-122-11 | ELECT | 100uF 20% 50V |
| C519 | 1-130-495-00 | MYLAR | 0.1uF 5% 50V |
| C521 | 1-136-165-00 | FILM | 0.1uF 5% 50V |
| C522 | 1-124-122-11 | ELECT | 100uF 20% 50V |
| C551 | 1-162-215-31 | CERAMIC | 47PF 5% 50V |
| C552 | 1-162-203-31 | CERAMIC | 15PF 5% 50V |
| C553 | 1-124-995-11 | ELECT | 220uF 20% 10V |
| C554 | 1-126-023-11 | ELECT | 100uF 20% 16V |
| C601 | 1-162-199-31 | CERAMIC | 10PF 5% 50V |
| C602 | 1-162-199-31 | CERAMIC | 10PF 5% 50V |
| C603 | 1-162-806-11 | CERAMIC | 0.1uF 10% 50V |
| C604 | 1-124-122-11 | ELECT | 100uF 20% 50V |
| C605 | 1-162-806-11 | CERAMIC | 0.1uF 10% 50V |
| C606 | 1-124-122-11 | ELECT | 100uF 20% 50V |
| C607 | 1-136-165-00 | FILM | 0.1uF 5% 50V |
| C608 | 1-124-997-11 | ELECT | 470uF 20% 10V |
| C609 | 1-164-159-11 | CERAMIC | 0.1uF 50V |

AUDIO

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------------------------|----------------|----------|--------------|-----------------------|--------|
| C610 | 1-124-997-11 | ELECT | 470uF 20% 10V | IC601 | 8-759-044-10 | IC CXD2562Q | |
| C611 | 1-126-301-11 | ELECT | 1uF 20% 50V | IC602 | 8-759-233-64 | IC TC74HC004AF | |
| C613 | 1-130-495-00 | MYLAR | 0.1uF 5% 50V | IC603 | 8-752-342-65 | IC CXD2560M | |
| C614 | 1-124-122-11 | ELECT | 100uF 20% 50V | IC604 | 8-759-233-64 | IC TC74HC004AF | |
| C615 | 1-126-025-11 | ELECT | 330uF 20% 25V | IC605 | 8-759-602-83 | IC M5238P | |
| C616 | 1-126-101-11 | ELECT | 100uF 20% 16V | IC901 | 8-759-231-58 | IC TA7812S | |
| C617 | 1-126-025-11 | ELECT | 330uF 20% 25V | IC921 | 8-759-245-86 | IC TA7912S | |
| C619 | 1-136-165-00 | FILM | 0.1uF 5% 50V | | | < COIL > | |
| C620 | 1-126-059-11 | ELECT | 10uF 20% 50V | L601 | 1-410-397-21 | FERRITE BEAD INDUCTOR | |
| C621 | 1-136-165-00 | FILM | 0.1uF 5% 50V | L603 | 1-410-969-11 | INDUCTOR 4.7uH | |
| C622 | 1-126-335-11 | ELECT | 220uF 20% 10V | L604 | 1-410-397-21 | FERRITE BEAD INDUCTOR | |
| C623 | 1-136-165-00 | FILM | 0.1uF 5% 50V | L605 | 1-410-397-21 | FERRITE BEAD INDUCTOR | |
| C624 | 1-162-290-31 | CERAMIC | 470PF 10% 50V | | | < TRANSISTOR > | |
| C625 | 1-164-159-11 | CERAMIC | 0.1uF 50V | Q406 | 8-729-231-55 | TRANSISTOR 2SC2878-AB | |
| C904 | 1-126-170-11 | ELECT | 1000uF 20% 50V | Q407 | 8-729-900-61 | TRANSISTOR DTA114ES | |
| C905 | 1-162-806-11 | CERAMIC | 0.1uF 10% 50V | Q408 | 8-729-231-55 | TRANSISTOR 2SC2878-AB | |
| C906 | 1-162-806-11 | CERAMIC | 0.1uF 10% 50V | Q409 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| C924 | 1-126-170-11 | ELECT | 1000uF 20% 50V | Q506 | 8-729-231-55 | TRANSISTOR 2SC2878-AB | |
| C925 | 1-162-806-11 | CERAMIC | 0.1uF 10% 50V | Q507 | 8-729-900-61 | TRANSISTOR DTA114ES | |
| C926 | 1-162-806-11 | CERAMIC | 0.1uF 10% 50V | Q508 | 8-729-231-55 | TRANSISTOR 2SC2878-AB | |
| | | < CONNECTOR > | | Q509 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| * CN401 | 1-573-261-11 | PIN, CONNECTOR 2P | | Q601 | 8-729-620-23 | TRANSISTOR 2SC3246-JK | |
| * CN402 | 1-573-261-11 | PIN, CONNECTOR 2P | | Q602 | 8-729-194-13 | TRANSISTOR 2SC1941-KA | |
| * CN451 | 1-573-263-11 | PIN, CONNECTOR 4P | | Q605 | 8-729-900-61 | TRANSISTOR DTA114ES | |
| * CN452 | 1-573-263-21 | PIN, CONNECTOR 4P | | Q606 | 8-729-900-61 | TRANSISTOR DTA114ES | |
| * CN453 | 1-573-262-11 | PIN, CONNECTOR 3P | | Q607 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| * CN501 | 1-573-261-21 | PIN, CONNECTOR 2P | | | | < RESISTOR > | |
| * CN502 | 1-573-261-21 | PIN, CONNECTOR 2P | | R401 | 1-249-945-11 | CARBON 8.2K 1% 1/4W | |
| * CN601 | 1-569-997-11 | PIN, CONNECTOR (PC BOARD) 10P | | R402 | 1-249-945-11 | CARBON 8.2K 1% 1/4W | |
| * CN602 | 1-569-993-11 | PIN, CONNECTOR (PC BOARD) 6P | | R403 | 1-249-945-11 | CARBON 8.2K 1% 1/4W | |
| * CN603 | 1-573-261-31 | PIN, CONNECTOR 2P | | R404 | 1-249-945-11 | CARBON 8.2K 1% 1/4W | |
| * CN901 | 1-573-865-21 | PIN, CONNECTOR (PC BOARD) 6P | | R405 | 1-247-719-11 | CARBON 3.3K 5% 1/4W | |
| | | < DIODE > | | R406 | 1-247-719-11 | CARBON 3.3K 5% 1/4W | |
| D601 | 8-719-114-27 | DIODE RD4. 7JS-B3 | | R409 | 1-247-725-11 | CARBON 10K 5% 1/4W | |
| D602 | 8-719-114-27 | DIODE RD4. 7JS-B3 | | R410 | 1-247-725-11 | CARBON 10K 5% 1/4W | |
| D603 | 8-719-114-30 | DIODE RD5. 1JS-B2 | | R411 | 1-247-722-11 | CARBON 5.6K 5% 1/4W | |
| D604 | 8-719-114-27 | DIODE RD4. 7JS-B3 | | R412 | 1-247-722-11 | CARBON 5.6K 5% 1/4W | |
| D605 | 8-719-987-63 | DIODE 1N4148M | | R413 | 1-247-722-11 | CARBON 5.6K 5% 1/4W | |
| D606 | 8-719-987-63 | DIODE 1N4148M | | R414 | 1-247-722-11 | CARBON 5.6K 5% 1/4W | |
| | | < IC > | | R415 | 1-249-926-11 | CARBON 1.3K 5% 1/4W | |
| IC401 | 8-759-602-83 | IC M5238P | | R416 | 1-249-926-11 | CARBON 1.3K 5% 1/4W | |
| IC402 | 8-759-982-03 | IC RC5532D-D | | R428 | 1-247-700-11 | CARBON 100 5% 1/4W | |
| IC405 | 8-759-981-85 | IC RC4556D | | R429 | 1-249-512-11 | CARBON 22 5% 1/4W | |
| IC501 | 8-759-602-83 | IC M5238P | | R434 | 1-259-444-11 | CARBON 4.7K 5% 1/6W | |
| IC502 | 8-759-982-03 | IC RC5532D-D | | R435 | 1-259-458-11 | CARBON 18K 5% 1/6W | |
| | | | | R436 | 1-259-464-11 | CARBON 33K 5% 1/6W | |

AUDIO

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| Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------|---------------|
| R439 | 1-247-891-00 | CARBON | 330K 5% 1/4W |
| R440 | 1-259-468-11 | CARBON | 47K 5% 1/6W |
| R451 | 1-259-456-11 | CARBON | 15K 5% 1/6W |
| R452 | 1-259-470-11 | CARBON | 56K 5% 1/6W |
| R453 | 1-259-476-11 | CARBON | 100K 5% 1/6W |
| R454 | 1-259-444-11 | CARBON | 4. 7K 5% 1/6W |
| R455 | 1-259-398-11 | CARBON | 56 5% 1/6W |
| R456 | 1-259-468-11 | CARBON | 47K 5% 1/6W |
| R457 | 1-259-428-11 | CARBON | 1K 5% 1/6W |
| R458 | 1-259-404-11 | CARBON | 100 5% 1/6W |
| R501 | 1-249-945-11 | CARBON | 8. 2K 1% 1/4W |
| R502 | 1-249-945-11 | CARBON | 8. 2K 1% 1/4W |
| R503 | 1-249-945-11 | CARBON | 8. 2K 1% 1/4W |
| R504 | 1-249-945-11 | CARBON | 8. 2K 1% 1/4W |
| R505 | 1-247-719-11 | CARBON | 3. 3K 5% 1/4W |
| R506 | 1-247-719-11 | CARBON | 3. 3K 5% 1/4W |
| R509 | 1-247-725-11 | CARBON | 10K 5% 1/4W |
| R510 | 1-247-725-11 | CARBON | 10K 5% 1/4W |
| R511 | 1-247-722-11 | CARBON | 5. 6K 5% 1/4W |
| R512 | 1-247-722-11 | CARBON | 5. 6K 5% 1/4W |
| R513 | 1-247-722-11 | CARBON | 5. 6K 5% 1/4W |
| R514 | 1-247-722-11 | CARBON | 5. 6K 5% 1/4W |
| R515 | 1-249-926-11 | CARBON | 1. 3K 5% 1/4W |
| R516 | 1-249-926-11 | CARBON | 1. 3K 5% 1/4W |
| R528 | 1-247-700-11 | CARBON | 100 5% 1/4W |
| R529 | 1-249-512-11 | CARBON | 22 5% 1/4W |
| R534 | 1-259-444-11 | CARBON | 4. 7K 5% 1/6W |
| R535 | 1-259-458-11 | CARBON | 18K 5% 1/6W |
| R536 | 1-259-464-11 | CARBON | 33K 5% 1/6W |
| R539 | 1-247-891-00 | CARBON | 330K 5% 1/4W |
| R540 | 1-259-468-11 | CARBON | 47K 5% 1/6W |
| R551 | 1-259-456-11 | CARBON | 15K 5% 1/6W |
| R552 | 1-259-470-11 | CARBON | 56K 5% 1/6W |
| R553 | 1-259-476-11 | CARBON | 100K 5% 1/6W |
| R554 | 1-259-444-11 | CARBON | 4. 7K 5% 1/6W |
| R555 | 1-259-398-11 | CARBON | 56 5% 1/6W |
| R556 | 1-259-468-11 | CARBON | 47K 5% 1/6W |
| R557 | 1-259-428-11 | CARBON | 1K 5% 1/6W |
| R558 | 1-259-404-11 | CARBON | 100 5% 1/6W |
| R600 | 1-259-452-11 | CARBON | 10K 5% 1/6W |
| R601 | 1-249-423-11 | CARBON | 3. 3K 5% 1/4W |
| R602 | 1-249-421-11 | CARBON | 2. 2K 5% 1/4W |
| R603 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R604 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R605 | 1-259-420-11 | CARBON | 470 5% 1/6W |
| R606 | 1-259-420-11 | CARBON | 470 5% 1/6W |
| R607 | 1-249-427-11 | CARBON | 6. 8K 5% 1/4W |
| R608 | 1-249-409-11 | CARBON | 220 5% 1/4W |
| R609 | 1-249-441-11 | CARBON | 100K 5% 1/4W |

| Ref. No. | Part No. | Description | Remark |
|---------------|--------------|---------------------------|-------------------|
| R610 | 1-259-420-11 | CARBON | 470 5% 1/6W |
| R611 | 1-259-420-11 | CARBON | 470 5% 1/6W |
| R612 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R613 | 1-247-717-11 | CARBON | 2. 2K 5% 1/4W |
| R614 | 1-247-710-11 | CARBON | 560 5% 1/4W |
| R615 | 1-259-452-11 | CARBON | 10K 5% 1/6W |
| R616 | 1-259-460-11 | CARBON | 22K 5% 1/6W |
| R617 | 1-247-700-11 | CARBON | 100 5% 1/4W |
| R618 | 1-247-717-11 | CARBON | 2. 2K 5% 1/4W |
| R619 | 1-259-428-11 | CARBON | 1K 5% 1/6W |
| R620 | 1-259-422-11 | CARBON | 560 5% 1/6W |
| R621 | 1-259-412-11 | CARBON | 220 5% 1/6W |
| < VIBRATOR > | | | |
| X601 | 1-577-686-11 | VIBRATOR, CRYSTAL (45MHz) | |
| X602 | 1-577-685-11 | FILTER, CERAMIC (16MHz) | |
| ***** | | | |
| * | A-4649-007-A | BD BOARD, COMPLETE | |
| ***** | | | |
| < CAPACITOR > | | | |
| C101 | 1-163-133-00 | CERAMIC CHIP | 470PF 5% 50V |
| C102 | 1-164-004-11 | CERAMIC CHIP | 0. 1uF 10% 25V |
| C103 | 1-163-133-00 | CERAMIC CHIP | 470PF 5% 50V |
| C104 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V |
| C105 | 1-163-038-00 | CERAMIC CHIP | 0. 1uF 25V |
| C106 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V |
| C107 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V |
| C109 | 1-163-038-00 | CERAMIC CHIP | 0. 1uF 25V |
| C110 | 1-124-584-00 | ELECT | 100uF 20% 10V |
| C111 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V |
| C112 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V |
| C113 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V |
| C114 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V |
| C115 | 1-131-374-00 | TANTALUM | 33uF 10% 16V |
| C121 | 1-163-017-00 | CERAMIC CHIP | 0. 0047uF 5% 50V |
| C122 | 1-163-001-11 | CERAMIC CHIP | 220PF 10% 50V |
| C123 | 1-163-133-00 | CERAMIC CHIP | 470PF 5% 50V |
| C124 | 1-163-986-00 | CERAMIC CHIP | 0. 027uF 10% 25V |
| C125 | 1-163-986-00 | CERAMIC CHIP | 0. 027uF 10% 25V |
| C141 | 1-163-038-00 | CERAMIC CHIP | 0. 1uF 25V |
| C142 | 1-163-038-00 | CERAMIC CHIP | 0. 1uF 25V |
| C151 | 1-163-137-00 | CERAMIC CHIP | 680PF 5% 50V |
| C152 | 1-163-137-00 | CERAMIC CHIP | 680PF 5% 50V |
| C153 | 1-163-137-00 | CERAMIC CHIP | 680PF 5% 50V |
| C154 | 1-163-137-00 | CERAMIC CHIP | 680PF 5% 50V |
| C155 | 1-163-019-00 | CERAMIC CHIP | 0. 0068uF 10% 50V |
| C156 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V |

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| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-----------------------------|------------------|----------|--------------|--------------------------|--------|
| C157 | 1-163-023-00 | CERAMIC CHIP | 0.015uF 5% 50V | IC142 | 8-759-981-92 | IC RC4558M | |
| C158 | 1-163-809-11 | CERAMIC CHIP | 0.047uF 10% 25V | IC151 | 8-759-981-92 | IC RC4558M | |
| C159 | 1-163-038-00 | CERAMIC CHIP | 0.1uF 25V | IC152 | 8-759-981-92 | IC RC4558M | |
| C160 | 1-164-336-11 | CERAMIC CHIP | 0.33uF 25V | IC201 | 8-752-337-26 | IC CXD2500AQ | |
| C161 | 1-163-023-00 | CERAMIC CHIP | 0.015uF 5% 50V | IC301 | 8-759-069-47 | IC M37451M8-174FP | |
| C171 | 1-163-038-00 | CERAMIC CHIP | 0.1uF 25V | IC302 | 8-759-512-81 | IC LH5160N-10L | |
| C172 | 1-163-038-00 | CERAMIC CHIP | 0.1uF 25V | | | < TRANSISTOR > | |
| C173 | 1-163-038-00 | CERAMIC CHIP | 0.1uF 25V | Q151 | 8-729-901-06 | TRANSISTOR DTA144EK | |
| C174 | 1-163-038-00 | CERAMIC CHIP | 0.1uF 25V | Q181 | 8-729-901-01 | TRANSISTOR DTC144EK | |
| C175 | 1-163-038-00 | CERAMIC CHIP | 0.1uF 25V | Q182 | 8-729-901-06 | TRANSISTOR DTA144EK | |
| C177 | 1-163-038-00 | CERAMIC CHIP | 0.1uF 25V | | | < RESISTOR > | |
| C178 | 1-163-038-00 | CERAMIC CHIP | 0.1uF 25V | R101 | 1-216-077-00 | METAL CHIP 15K 5% 1/10W | |
| C179 | 1-163-038-00 | CERAMIC CHIP | 0.1uF 25V | R102 | 1-216-097-00 | METAL CHIP 100K 5% 1/10W | |
| C180 | 1-163-038-00 | CERAMIC CHIP | 0.1uF 25V | R103 | 1-216-077-00 | METAL CHIP 15K 5% 1/10W | |
| C181 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V | R104 | 1-216-049-00 | METAL CHIP 1K 5% 1/10W | |
| C201 | 1-163-809-11 | CERAMIC CHIP | 0.047uF 10% 25V | R105 | 1-216-097-00 | METAL CHIP 100K 5% 1/10W | |
| C202 | 1-163-011-11 | CERAMIC CHIP | 0.0015uF 10% 50V | R106 | 1-216-085-00 | METAL CHIP 33K 5% 1/10W | |
| C203 | 1-164-232-11 | CERAMIC CHIP | 0.01uF 50V | R107 | 1-216-025-00 | METAL CHIP 100 5% 1/10W | |
| C204 | 1-163-117-00 | CERAMIC CHIP | 100PF 5% 50V | R108 | 1-216-295-00 | METAL CHIP 0 5% 1/10W | |
| C205 | 1-164-489-11 | CERAMIC CHIP | 0.22uF 10% 16V | R121 | 1-216-071-00 | METAL CHIP 8.2K 5% 1/10W | |
| C206 | 1-164-232-11 | CERAMIC CHIP | 0.01uF 50V | R122 | 1-216-071-00 | METAL CHIP 8.2K 5% 1/10W | |
| C207 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V | R123 | 1-216-071-00 | METAL CHIP 8.2K 5% 1/10W | |
| C301 | 1-163-038-00 | CERAMIC CHIP | 0.1uF 25V | R124 | 1-216-071-00 | METAL CHIP 8.2K 5% 1/10W | |
| C302 | 1-125-622-11 | CAP, DOUBLE LAYERS | 0.1F 5.5V | R125 | 1-216-071-00 | METAL CHIP 8.2K 5% 1/10W | |
| C303 | 1-163-038-00 | CERAMIC CHIP | 0.1uF 25V | R126 | 1-216-071-00 | METAL CHIP 8.2K 5% 1/10W | |
| C305 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V | R127 | 1-216-069-00 | METAL CHIP 6.8K 5% 1/10W | |
| | | < CONNECTOR > | | R128 | 1-216-069-00 | METAL CHIP 6.8K 5% 1/10W | |
| * CN101 | 1-573-276-11 | PIN, CONNECTOR | 6P | R129 | 1-216-069-00 | METAL CHIP 6.8K 5% 1/10W | |
| CN102 | 1-568-799-11 | SOCKET, CONNECTOR | 16P | R130 | 1-216-069-00 | METAL CHIP 6.8K 5% 1/10W | |
| * CN111 | 1-569-998-11 | PIN, CONNECTOR (PC BOARD) | 2P | R131 | 1-216-069-00 | METAL CHIP 6.8K 5% 1/10W | |
| * CN112 | 1-580-001-11 | PIN, CONNECTOR (PC BOARD) | 4P | R132 | 1-216-069-00 | METAL CHIP 6.8K 5% 1/10W | |
| * CN113 | 1-580-002-11 | PIN, CONNECTOR (PC BOARD) | 5P | R133 | 1-216-053-00 | METAL CHIP 1.5K 5% 1/10W | |
| * CN141 | 1-564-704-11 | PIN, CONNECTOR (SMALL TYPE) | 2P | R134 | 1-216-053-00 | METAL CHIP 1.5K 5% 1/10W | |
| * CN201 | 1-580-007-11 | PIN, CONNECTOR (PC BOARD) | 10P | R141 | 1-216-073-00 | METAL CHIP 10K 5% 1/10W | |
| * CN202 | 1-580-003-11 | PIN, CONNECTOR (PC BOARD) | 6P | R142 | 1-216-079-00 | METAL CHIP 18K 5% 1/10W | |
| * CN203 | 1-564-719-11 | PIN, CONNECTOR (SMALL TYPE) | 3P | R143 | 1-216-073-00 | METAL CHIP 10K 5% 1/10W | |
| * CN301 | 1-691-464-11 | PIN, CONNECTOR | 8P | R144 | 1-216-065-00 | METAL CHIP 4.7K 5% 1/10W | |
| * CN302 | 1-691-462-11 | PIN, CONNECTOR | 6P | R145 | 1-216-073-00 | METAL CHIP 10K 5% 1/10W | |
| | | < DIODE > | | R146 | 1-216-073-00 | METAL CHIP 10K 5% 1/10W | |
| D301 | 8-719-104-34 | DIODE | 1S2836 | R147 | 1-216-079-00 | METAL CHIP 18K 5% 1/10W | |
| | | < IC > | | R148 | 1-216-073-00 | METAL CHIP 10K 5% 1/10W | |
| IC101 | 8-752-344-48 | IC | CXD2501Q | R149 | 1-216-073-00 | METAL CHIP 10K 5% 1/10W | |
| IC102 | 8-759-040-80 | IC | BA6297FP | R151 | 1-216-070-00 | METAL CHIP 7.5K 5% 1/10W | |
| IC103 | 8-759-040-83 | IC | BA6287F | R152 | 1-216-070-00 | METAL CHIP 7.5K 5% 1/10W | |
| IC141 | 8-759-055-78 | IC | TA8407F | R153 | 1-216-070-00 | METAL CHIP 7.5K 5% 1/10W | |
| | | | | R154 | 1-216-070-00 | METAL CHIP 7.5K 5% 1/10W | |

BD **DISPLAY** **FUNCTION** **TIMER**

| Ref. No. | Part No. | Description | Remark | | |
|----------|--------------|-------------|--------|----|-------|
| R155 | 1-216-093-00 | METAL CHIP | 68K | 5% | 1/10W |
| R156 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R157 | 1-216-117-00 | METAL CHIP | 680K | 5% | 1/10W |
| R158 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W |
| R159 | 1-216-083-00 | METAL CHIP | 27K | 5% | 1/10W |
| R160 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R161 | 1-216-095-00 | METAL CHIP | 82K | 5% | 1/10W |
| R163 | 1-216-076-00 | METAL CHIP | 13K | 5% | 1/10W |
| R164 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R165 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R166 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W |
| R167 | 1-216-308-00 | METAL CHIP | 4.7 | 5% | 1/10W |
| R171 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R172 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R173 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R174 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R175 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R177 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R178 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R179 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R180 | 1-216-001-00 | METAL CHIP | 10 | 5% | 1/10W |
| R181 | 1-216-029-00 | METAL CHIP | 150 | 5% | 1/10W |
| R182 | 1-216-029-00 | METAL CHIP | 150 | 5% | 1/10W |
| R183 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R184 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W |
| R191 | 1-216-295-00 | METAL CHIP | 0 | 5% | 1/10W |
| R192 | 1-216-295-00 | METAL CHIP | 0 | 5% | 1/10W |
| R201 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R202 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R203 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R204 | 1-216-121-00 | METAL CHIP | 1M | 5% | 1/10W |
| R205 | 1-216-105-00 | METAL CHIP | 220K | 5% | 1/10W |
| R206 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R207 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R208 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R209 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R210 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W |
| R211 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R212 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W |
| R213 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R301 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R302 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R303 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R304 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R305 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R306 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R307 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R308 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R309 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |

| Ref. No. | Part No. | Description | Remark | | |
|---------------|--------------|---------------------------|----------------|------------|-------|
| R310 | 1-216-121-00 | METAL CHIP | 1M | 5% | 1/10W |
| R311 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W |
| R312 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R313 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R314 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R315 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R316 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R317 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R318 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R319 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| < VIBRATOR > | | | | | |
| X301 | 1-577-377-11 | VIBRATOR, CERAMIC (10MHz) | | | |
| ***** | | | | | |
| * | 1-637-410-11 | DISPLAY BOARD | ***** | | |
| * | 1-637-419-11 | FUNCTION BOARD | ***** | | |
| * | 1-637-411-11 | TIMER BOARD | ***** | | |
| * | 4-923-532-21 | SPACER, LED | | | |
| * | 4-928-052-01 | HOLDER (RIGHT) | | | |
| * | 4-928-053-01 | HOLDER (LEFT) | | | |
| < CAPACITOR > | | | | | |
| C802 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C803 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| < CONNECTOR > | | | | | |
| * CN801 | 1-564-341-11 | PIN, CONNECTOR 7P | | | |
| * CN802 | 1-506-503-11 | PIN, CONNECTOR 9P | | | |
| * CN803 | 1-564-340-00 | PIN, CONNECTOR 6P | | | |
| < DIODE > | | | | | |
| D701 | 8-719-970-07 | LED | MPG3371X-150 | (▶) | |
| D702 | 8-719-971-52 | LED | MAY3371X-M-177 | (■) | |
| D703 | 8-719-971-50 | LED | MBG3371X | (CONTINUE) | |
| D704 | 8-719-971-52 | LED | MAY3371X-M-177 | (SHUFFLE) | |
| D705 | 8-719-987-97 | LED | BR3371X | (PROGRAM) | |
| D706 | 8-719-970-98 | LED | MPY3371X-177 | (C. INDEX) | |
| D801 | 8-719-987-63 | DIODE | 1N4148M | | |
| D802 | 8-719-987-63 | DIODE | 1N4148M | | |
| D803 | 8-719-987-63 | DIODE | 1N4148M | | |
| D804 | 8-719-987-63 | DIODE | 1N4148M | | |
| D805 | 8-719-987-63 | DIODE | 1N4148M | | |
| D806 | 8-719-987-63 | DIODE | 1N4148M | | |
| D807 | 8-719-987-63 | DIODE | 1N4148M | | |

DISPLAY **FUNCTION** **TIMER** **HP**

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|--|--------|
| | | < FLUORESCENT INDICATOR > | |
| FLD801 | 1-519-622-11 | INDICATOR TUBE, FLUORESCENT | |
| | | < IC > | |
| IC801 | 8-759-074-98 | IC MSC62408-041GS-V1K | |
| IC802 | 8-741-100-48 | IC SBX1610-59 | |
| | | < TRANSISTOR > | |
| Q701 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q702 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q703 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q704 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q705 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q706 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| Q801 | 8-729-900-45 | TRANSISTOR DTC114EF | |
| Q802 | 8-729-900-45 | TRANSISTOR DTC114EF | |
| | | < RESISTOR > | |
| R701 | 1-249-406-11 | CARBON 120 5% 1/4W | |
| R702 | 1-249-406-11 | CARBON 120 5% 1/4W | |
| R703 | 1-249-406-11 | CARBON 120 5% 1/4W | |
| R704 | 1-249-406-11 | CARBON 120 5% 1/4W | |
| R705 | 1-249-415-11 | CARBON 680 5% 1/4W | |
| R706 | 1-249-409-11 | CARBON 220 5% 1/4W | |
| R801 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R802 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R803 | 1-247-903-00 | CARBON 1M 5% 1/4W | |
| R806 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R809 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| | | < SWITCH > | |
| S701 | 1-554-937-11 | SWITCH, KEY BOARD (PLAY MODE CONTINUE) | |
| S702 | 1-554-937-11 | SWITCH, KEY BOARD (PLAY MODE SHUFFLE) | |
| S703 | 1-554-937-11 | SWITCH, KEY BOARD (PLAY MODE PROGRAM) | |
| S704 | 1-554-937-11 | SWITCH, KEY BOARD (PLAY MODE C. INDEX) | |
| S705 | 1-554-937-11 | SWITCH, KEY BOARD (K4) | |
| S706 | 1-554-937-11 | SWITCH, KEY BOARD (II) | |
| S707 | 1-554-937-11 | SWITCH, KEY BOARD (▶) | |
| S708 | 1-554-937-11 | SWITCH, KEY BOARD (EDIT/TIME FADE) | |
| S709 | 1-554-937-11 | SWITCH, KEY BOARD (FADER) | |
| S710 | 1-554-937-11 | SWITCH, KEY BOARD (P. SEARCH) | |
| S711 | 1-554-937-11 | SWITCH, KEY BOARD (▶▶) | |
| S712 | 1-554-937-11 | SWITCH, KEY BOARD (■) | |
| S713 | 1-554-937-11 | SWITCH, KEY BOARD (DIMMER REPERT) | |
| S714 | 1-554-937-11 | SWITCH, KEY BOARD (1) | |
| S715 | 1-554-937-11 | SWITCH, KEY BOARD (6) | |
| S716 | 1-554-937-11 | SWITCH, KEY BOARD (11) | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|--------------------------------------|--------|
| S717 | 1-554-937-11 | SWITCH, KEY BOARD (16) | |
| S718 | 1-554-937-11 | SWITCH, KEY BOARD (◀◀) | |
| S719 | 1-554-937-11 | SWITCH, KEY BOARD (FILE) | |
| S720 | 1-554-937-11 | SWITCH, KEY BOARD (DIMMER TIME/MEMO) | |
| S721 | 1-554-937-11 | SWITCH, KEY BOARD (2) | |
| S722 | 1-554-937-11 | SWITCH, KEY BOARD (7) | |
| S723 | 1-554-937-11 | SWITCH, KEY BOARD (12) | |
| S724 | 1-554-937-11 | SWITCH, KEY BOARD (17) | |
| S725 | 1-554-937-11 | SWITCH, KEY BOARD (▶▶) | |
| S726 | 1-554-937-11 | SWITCH, KEY BOARD (ERASE) | |
| S727 | 1-554-937-11 | SWITCH, KEY BOARD (3) | |
| S728 | 1-554-937-11 | SWITCH, KEY BOARD (8) | |
| S729 | 1-554-937-11 | SWITCH, KEY BOARD (13) | |
| S730 | 1-554-937-11 | SWITCH, KEY BOARD (18) | |
| S731 | 1-554-937-11 | SWITCH, KEY BOARD (CLEAR) | |
| S732 | 1-554-937-11 | SWITCH, KEY BOARD (FILE RECALL) | |
| S733 | 1-554-937-11 | SWITCH, KEY BOARD (4) | |
| S734 | 1-554-937-11 | SWITCH, KEY BOARD (9) | |
| S735 | 1-554-937-11 | SWITCH, KEY BOARD (14) | |
| S736 | 1-554-937-11 | SWITCH, KEY BOARD (19) | |
| S737 | 1-554-937-11 | SWITCH, KEY BOARD (CHECK) | |
| S738 | 1-554-937-11 | SWITCH, KEY BOARD (5) | |
| S739 | 1-554-937-11 | SWITCH, KEY BOARD (10) | |
| S740 | 1-554-937-11 | SWITCH, KEY BOARD (15) | |
| S741 | 1-554-937-11 | SWITCH, KEY BOARD (20) | |
| S801 | 1-554-937-11 | SWITCH, KEY BOARD (⊞ OPEN/CLOSE) | |
| S802 | 1-554-937-11 | SWITCH, KEY BOARD (LEVEL FILE) | |
| S803 | 1-554-937-11 | SWITCH, KEY BOARD (DISPLAY MODE) | |
| S804 | 1-570-157-51 | SWITCH, SLIDE (TIMER) | |
| | | < VIBRATOR > | |
| X801 | 1-577-359-21 | VIBRATOR, CERAMIC (4.19MHz) | |
| ***** | | | |
| * | 1-642-074-11 | HP BOARD | |
| ***** | | | |
| | | < CAPACITOR > | |
| C461 | 1-162-290-31 | CERAMIC 470PF 10% 50V | |
| C561 | 1-162-290-31 | CERAMIC 470PF 10% 50V | |
| | | < JACK > | |
| J451 | 1-568-519-31 | JACK, LARGE TYPE (PHONES) | |
| | | < COIL > | |
| L461 | 1-424-090-11 | COIL, LINE FILTER | |
| L561 | 1-424-090-11 | COIL, LINE FILTER | |
| ***** | | | |

L.MOTOR

LINE OUT

OPT

POWER

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|----------------------------------|--------|
| * | 1-641-765-11 | L. MOTOR BOARD ***** | |
| ***** | | | |
| * | 1-641-808-11 | LINE OUT BOARD ***** | |
| | | < DIODE > | |
| D471 | 8-719-987-63 | DIODE 1N4148M | |
| | | < JACK > | |
| J401 | 1-568-101-11 | JACK, PIN 4P (LINE OUT) | |
| | | < RESISTOR > | |
| R470 | 1-247-700-11 | CARBON 100 5% 1/4W | |
| R471 | 1-247-700-11 | CARBON 100 5% 1/4W | |
| R570 | 1-247-700-11 | CARBON 100 5% 1/4W | |
| R571 | 1-247-700-11 | CARBON 100 5% 1/4W | |
| | | < RELAY > | |
| RY471 | 1-515-727-11 | RELAY | |
| ***** | | | |
| * | 1-641-807-11 | OPT BOARD ***** | |
| | | < CAPACITOR > | |
| C280 | 1-126-059-11 | ELECT 10uF 20% 50V | |
| | | < CONNECTOR > | |
| * CN280 | 1-564-705-11 | PIN, CONNECTOR (SMALL TYPE) 3P | |
| | | < IC > | |
| IC280 | 8-749-921-12 | IC GP1F32T (DIGITAL OUT OPTICAL) | |
| ***** | | | |
| * | A-4649-346-A | POWER BOARD, COMPLETE ***** | |
| | 7-682-147-15 | SCREW, TR | |
| * | 4-941-237-01 | HEAT SINK | |
| | 7-682-545-09 | SCREW +B 3X4 | |
| | | < BUS BAR > | |
| * BUS902 | 1-566-940-11 | BUS BAR 6P | |
| | | < CAPACITOR > | |
| C901 | 1-126-982-11 | ELECT 5600uF 20% 35V | |

| Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------------------|--------|
| C921 | 1-126-982-11 | ELECT 5600uF 20% 35V | |
| C951 | 1-126-017-11 | ELECT 6800uF 20% 16V | |
| C952 | 1-126-832-51 | ELECT 3300uF 20% 10V | |
| C953 | 1-126-797-51 | ELECT 1000uF 20% 10V | |
| C954 | 1-126-797-51 | ELECT 1000uF 20% 10V | |
| C955 | 1-126-797-51 | ELECT 1000uF 20% 10V | |
| C956 | 1-126-335-11 | ELECT 220uF 20% 10V | |
| C957 | 1-126-162-11 | ELECT 3.3uF 20% 50V | |
| C958 | 1-162-294-31 | CERAMIC 0.001uF 10% 50V | |
| C959 | 1-124-572-11 | ELECT 100uF 20% 63V | |
| C960 | 1-126-233-11 | ELECT 22uF 20% 50V | |
| C961 | 1-124-122-11 | ELECT 100uF 20% 50V | |
| C962 | 1-124-122-11 | ELECT 100uF 20% 50V | |
| C963 | 1-136-177-00 | FILM 1uF 5% 50V | |
| C964 | 1-136-165-00 | FILM 0.1uF 5% 50V | |
| C965 | 1-126-335-11 | ELECT 220uF 20% 10V | |
| C966 | 1-126-797-51 | ELECT 1000uF 20% 10V | |
| C971 | 1-164-159-11 | CERAMIC 0.1uF 50V | |
| | | < CONNECTOR > | |
| * CN952 | 1-564-341-11 | PIN, CONNECTOR 7P | |
| * CN953 | 1-573-265-11 | PIN, CONNECTOR 6P | |
| | | < DIODE > | |
| D951 | 8-719-210-30 | DIODE F10P20F (R) | |
| D955 | 8-719-210-38 | DIODE F10P20FR | |
| D960 | 8-719-937-49 | DIODE RDF02M | |
| D961 | 8-719-200-02 | DIODE 10E2 | |
| D963 | 8-719-200-02 | DIODE 10E2 | |
| D964 | 8-719-110-04 | DIODE RD7.5ES-B3 | |
| D965 | 8-719-913-62 | DIODE HZ36-2L | |
| D966 | 8-719-933-48 | DIODE HZS7B3L | |
| | | < IC > | |
| IC951 | 8-759-925-54 | IC LM2940CT-5.0 | |
| IC952 | 8-759-604-86 | IC M5F7807 | |
| IC953 | 8-759-636-16 | IC M51957AL | |
| IC954 | 8-759-604-30 | IC M5F7808 | |
| | | < TRANSISTOR > | |
| Q951 | 8-729-924-90 | TRANSISTOR 2SB1370-EF | |
| Q952 | 8-729-140-96 | TRANSISTOR 2SD774-34 | |
| | | < RESISTOR > | |
| R951 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R952 | 1-249-423-11 | CARBON 3.3K 5% 1/4W | |
| R953 | 1-249-436-11 | CARBON 39K 5% 1/4W | |
| R954 | 1-249-431-11 | CARBON 15K 5% 1/4W | |
| R955 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |

POWER **SW** **VR**

| Ref. No. | Part No. | Description | Remark | | |
|----------------|--------------|--------------------------|---------|-----|--------|
| R956 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R957 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| △R958 | 1-212-875-00 | FUSIBLE | 56 | 5% | 1/4W F |
| R959 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| △R960 | 1-215-860-11 | METAL OXIDE | 33 | 5% | 1W F |
| △R961 | 1-216-425-11 | METAL OXIDE | 56 | 5% | 1W F |
| < TERMINAL > | | | | | |
| * TB951 | 1-535-116-00 | TERMINAL 3P | | | |
| * TB952 | 1-535-118-00 | TERMINAL 5P | | | |
| * TB953 | 1-535-116-00 | TERMINAL 3P | | | |
| < THERMISTOR > | | | | | |
| TH901 | 1-808-065-11 | THERMISTOR, POSITIVE 0.5 | | | |
| TH902 | 1-808-065-11 | THERMISTOR, POSITIVE 0.5 | | | |
| TH903 | 1-806-882-11 | THERMISTOR, POSITIVE 2.2 | | | |
| TH904 | 1-808-065-11 | THERMISTOR, POSITIVE 0.5 | | | |
| ***** | | | | | |
| * 1-641-764-11 | SW BOARD | ***** | | | |
| < CAPACITOR > | | | | | |
| C001 | 1-161-494-00 | CERAMIC | 0.022uF | 25V | |
| < RESISTOR > | | | | | |
| △R001 | 1-247-727-11 | CARBON | 10 | 5% | 1/2W F |
| △R002 | 1-247-727-11 | CARBON | 10 | 5% | 1/2W F |
| < SWITCH > | | | | | |
| S001 | 1-571-300-21 | SWITCH, ROTARY (IN SW) | | | |
| S002 | 1-571-300-21 | SWITCH, ROTARY (OUT SW) | | | |
| ***** | | | | | |
| * 1-641-804-11 | VR BOARD | ***** | | | |
| < CAPACITOR > | | | | | |
| C350 | 1-164-159-11 | CERAMIC | 0.1uF | 50V | |
| C351 | 1-164-159-11 | CERAMIC | 0.1uF | 50V | |
| < IC > | | | | | |
| IC350 | 8-759-962-08 | IC BA6208 | | | |
| < TRANSISTOR > | | | | | |
| Q350 | 8-729-900-80 | TRANSISTOR DTC114ES | | | |

| Ref. No. | Part No. | Description | Remark | | |
|---|----------------------------------|---|--------|----|------|
| < RESISTOR > | | | | | |
| R350 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R351 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| < VARIABLE RESISTOR > | | | | | |
| RV350 | 1-241-321-11 | RES, VAR, CARBON 10KX3 (LINE OUT/PHONE LEVEL) (INCLUDING VOL MOTOR AND VOL LED) | | | |
| ***** | | | | | |
| MISCELLANEOUS | | | | | |
| ***** | | | | | |
| △111 | 1-559-583-21 | CORD, POWER (US, Canadian) | | | |
| △121 | 1-558-568-21 | CORD, POWER (AEP) | | | |
| △122 | 1-559-555-21 | CORD, POWER (UK) | | | |
| △215 | 8-848-244-11 | DEVICE, OPTICAL KSS-272A | | | |
| △F991 | 1-532-066-00 | FUSE, TIME-LAG (T400mA) (AEP, UK) | | | |
| △F991 | 1-532-741-11 | FUSE, GLASS TUBE (1.25A/125V) (US, Canadian) | | | |
| M001 | A-4604-347-A | MOTOR (L) ASSY | | | |
| △S991 | 1-570-156-11 | SWITCH, PUSH (AC POWER) (1 KEY) (POWER) (AEP, UK) | | | |
| △T991 | 1-450-891-11 | TRANSFORMER, POWER (US, Canadian) | | | |
| △T991 | 1-450-892-11 | TRANSFORMER, POWER (AEP, UK) | | | |
| ***** | | | | | |
| ACCESSORIES & PACKING MATERIALS | | | | | |
| ***** | | | | | |
| 1-465-593-11 COMMANDER, REMOTE (RM-D991) (INCLUDING※1) | | | | | |
| 1-558-271-11 CORD, CONNECTION | | | | | |
| 1-590-925-31 CORD, CONNECTION | | | | | |
| 3-707-584-01 COVER, BATTERY (※1) | | | | | |
| 3-754-118-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (Canadian, AEP, UK) | | | | | |
| 3-754-118-21 MANUAL, INSTRUCTION (ENGLISH) (US) | | | | | |
| 3-754-118-41 MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP) | | | | | |
| 4-847-802-00 SCREW (US, Canadian) | | | | | |
| * 4-942-314-01 | CUSHION (UPPER) | | | | |
| * 4-942-315-01 | CUSHION (LOWER) | | | | |
| * 4-951-266-01 | INDIVIDUAL CARTON (AEP, UK) | | | | |
| * 4-951-876-01 | INDIVIDUAL CARTON (US, Canadian) | | | | |
| ***** | | | | | |

| | |
|---|---|
| <p>The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.</p> | <p>Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p> |
|---|---|

| Ref. No. | Part No. | Description | Remark |
|---------------------------------|--------------|--------------------------|--------|
| ***** HARDWARE LIST ***** | | | |
| #1 | 7-682-561-09 | SCREW +B 4X8 | |
| #2 | 7-682-545-09 | SCREW +B 3X4 | |
| #3 | 7-682-548-09 | SCREW +BVTT 3X8 (S) | |
| #4 | 7-685-544-19 | SCREW, TAPPING +B 3X5 | |
| #5 | 7-685-647-79 | SCREW +P 3X10 TYPE2 SLIT | |
| #6 | 7-682-547-09 | SCREW +BVTT 3X6 (S) | |
| #7 | 7-682-549-09 | SCREW +BVTT 3X10 (S) | |
| #8 | 7-682-547-04 | SCREW +BVTT 3X6 (S) | |
| #9 | 7-682-560-04 | SCREW +BVTT 4X6 (S) | |
| #10 | 7-682-147-15 | SCREW, TR | |
| #11 | 7-682-544-04 | SCREW +P 3X3 | |
| #12 | 7-685-646-79 | SCREW, TAPPING | |
| #13 | 7-685-132-19 | + PTPWH (2. 6X5) | |
| #14 | 7-624-105-04 | STOP RING 2. 3, TYPE -E | |
| #15 | 7-621-255-25 | SCREW +P 2X4 | |
| #16 | 7-688-003-12 | W 3, MIDDLE | |

