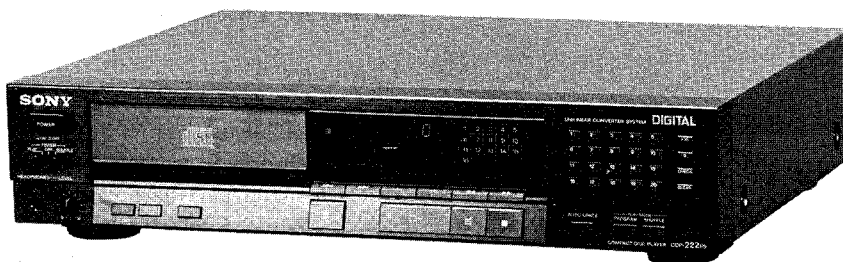


CDP-222ESD/505ESD /910

SERVICE MANUAL



(PHOTO: CDP-222ESD)

CDP-222ESD:
AEP Model
UK Model
E Model

CDP-505ESD:
US Model
Canadian Model

CDP-910:
US Model

SPECIFICATIONS

| | |
|-----------------------|---|
| System | Compact disc digital audio system |
| Disc | Compact disc |
| Laser | Semiconductor laser ($\lambda = 780 \text{ nm}$) |
| Laser output | Max. 44.6 μW * |
| | * This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block. |
| Spindle speed | 200 rpm to 500 rpm (CLV) |
| Scan velocity | 1.2–1.4 m/sec. |
| Error correction | Sony Super Strategy Cross Interleave Reed Solomon Code |
| Number of channel | Two |
| D/A conversion | 16-bit linear |
| Frequency response | 2 – 20,000 Hz $\pm 0.5 \text{ dB}$ |
| Signal-to-noise ratio | More than 102 dB |
| Dynamic range | More than 95 dB |
| Harmonic distortion | Less than 0.003% (1 kHz) |
| Channel separation | More than 98 dB (1 kHz) |
| Wow and flutter | Below measurable limit |
| Output jacks | |

| | Max. output level | Load impedance | Output impedance |
|--------------|--|-------------------------|------------------|
| LINE OUT | 2 V (50 k Ω) | More than 10 k Ω | — |
| *DIGITAL OUT | 0.5 V _{p-p} (75 Ω) | 75 Ω | 75 Ω |
| HEAD-PHONES | 28 mW Variable, max | 32 Ω | — |

*DIGITAL OUT: CDP-222ESD, CDP-505ESD

General

Power requirements

| | |
|-------------|---|
| CDP-222ESD: | AEP model |
| | 220 V AC 50/60 Hz |
| | UK model |
| | 240 V AC 50 Hz |
| | E model |
| | 120, 220 or 240 V AC adjustable, 50/60 Hz |

CDP-505ESD, CDP-910:

120 V AC 60 Hz

Power consumption

15W

Dimensions

Approx. 430 x 100 x 335 mm (w/h/d)
(17 x 4 x 13 $\frac{1}{4}$ inches)

Weight

Approx. 5.3 kg (11 lb 11 oz), net

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND 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.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET 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.

COMPACT DISC PLAYER
SONY[®]



AUD

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GENERAL DESCRIPTION

Direct selection

You can play a desired selection simply by pressing the corresponding numeric button (1-20).

Program play

You can play up to 20 selections in the desired order. Selections can be programmed even after play begins.

Variety of playing modes

Disc, program, shuffle and repeat playing modes.

Large and easy-to-read window display

Shows the elapsed playing time, the remaining time of the selection being played, the remaining time of the whole disc or remaining programmed selection numbers.

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 2 V AC range are suitable. (See Fig. A)

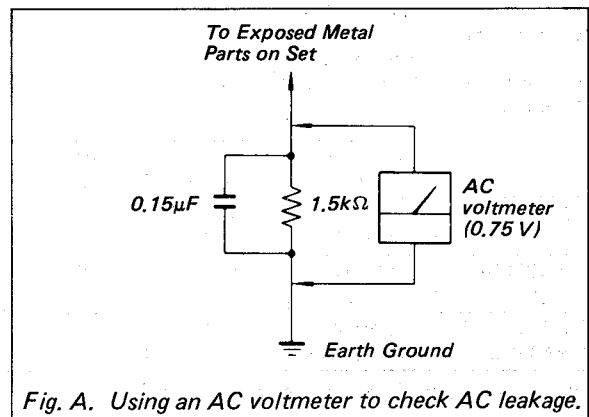


Fig. A. Using an AC voltmeter to check AC leakage.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING !!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION, BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30 cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.

1. Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output: max. 0,4 mW*

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

- Classification: Class Ib

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).

BESKYTTELSE AF ØJNE MOD LASERSTRÅLING UNDER SERVICE

I dette apparat anvendes laserlys. Derfor skal nedenstående instruktioner nøje følges under service.

Følg iøvrigt instruktionerne i servicemanualen.

ADVARSEL!!

Under service må øjnene ikke komme nær objektiv-linsen på den optiske pick-up enhed. I tilfælde af at det er nødvendigt at kontrollere udsendelsen af laserlys, skal det ske i en afstand af mere end 25 cm fra den optiske pick-up.

1. Laser-dioe data

- Materiale: GaAlAs
- Bølgelængde: 780 nm
- Udstråling: Kontinuerlig
- Laseroutput: Max. 0,4 mW*

* Målt i 1,6 mm afstand fra overfladen af objektiv-linsen på den optiske pick-up enhed.

- Klassifikation: Klasse IIIb.

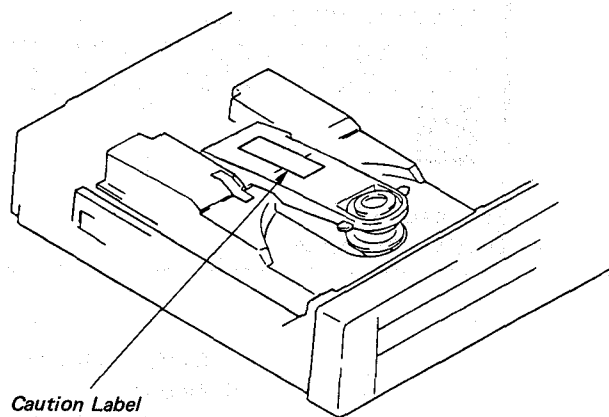
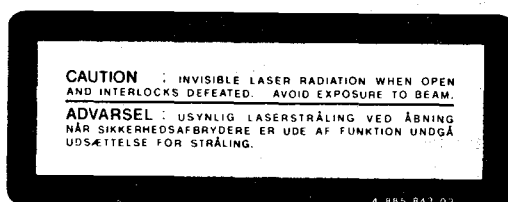
2. Adskil aldrig den optiske pick-up enhed under service, og juster ikke APC kredsløbet (Automatic Power Control). Hvis APC kredsløbet (incl. laserdioden) bryder ned, skal hele den optiske pick-up enhed (incl. APC printkortet) udskiftes.

LASER WARNING LABEL

LASER ADVARSEL MÆRKNING




Følgende mærkning findes indvendig i apparatet:

Advarsel Mærkning



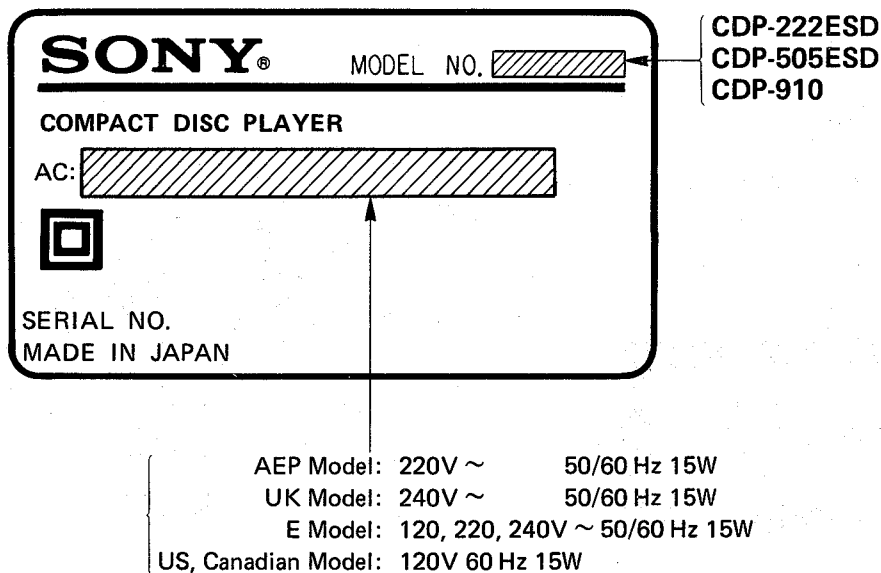
TROUBLE CHECKS

The following checks will assist in the correction of most problems which you may encounter with your unit. Should any problem persist after you have made these checks, consult your nearest Sony service facility. Before going through the check list below, first refer back to the connection and operating procedures.

| TROUBLE | CAUSES | REMEDY |
|--|--|---|
| The disc compartment does not close when a disc is inserted and the  button is pressed. | The disc is not placed correctly. | Center the disc correctly in the disc compartment. |
| Play does not start. | Dirty disc | Clean the disc. |
| | The disc is inserted with the label surface downward. | Place the disc with the label surface up. |
| | The  button is engaged. | Press the  button again to release it. |
| | Moisture condensation | Wait for approx. one hour after turning on the unit then start play. |
| Sound is not heard. | Loose connection | Connect the cords firmly. |
| | The DIGITAL OUT switch is set to ON while using the LINE OUT jacks. | Set the DIGITAL OUT switch to OFF. |
| | The LEVEL control is set to the minimum. | Turn the LEVEL control clockwise. |
| Display window does not illuminate even when the power turns on. | The AC power cord is disconnected. | Connect the AC power cord firmly. |
| Play begins when the POWER switch is turned on. | The TIMER switch is set to PLAY or SHUFFLE. | Set the TIMER switch to OFF. |

*The above "TROUBLE CHECKS" table has been reprinted from the OPERATION MANUAL of CDP-222ESD for the service man's convenience of interviewing customers.

MODEL IDENTIFICATION

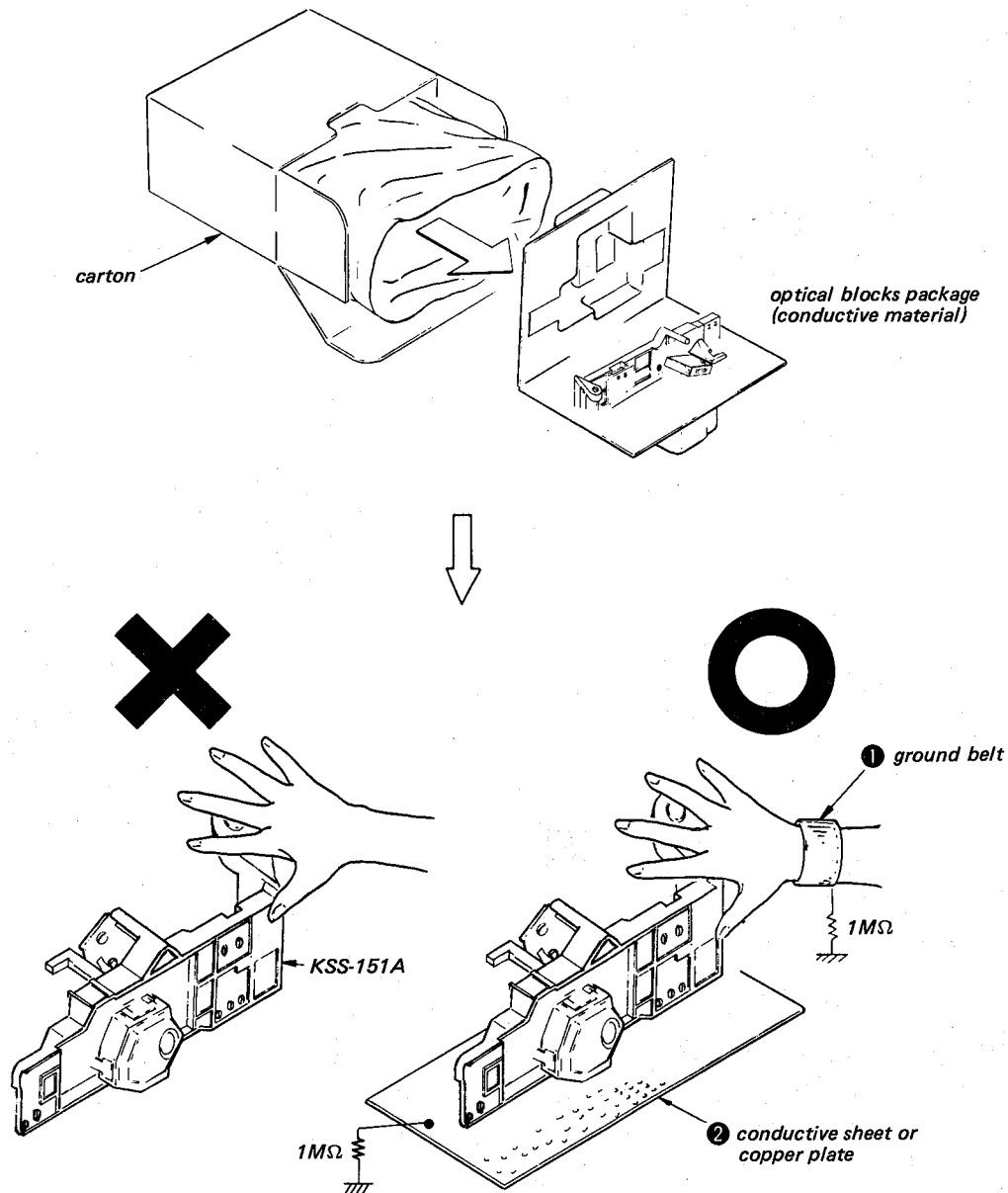


NOTES ON HANDLING THE OPTICAL BLOCK (KSS-151A)

The laser diode inside the optical block may be damaged by static electricity in clothes or the human body.

The following procedures are required when unpacking and repairing KSS-151A in order to avoid static electricity damage.

1. Body grounding
Be sure to wear a ground belt (less than $10^8 \Omega$) in order to release the static electricity stored in the body.
2. Workbench grounding
Place a conductive sheet (less than $10^9 \Omega$) or copper plate on the bench where KSS-151A is to be placed to ground it.
3. Static electricity in the clothing will not be released by the ground belt, so be careful not to let KSS-151A touch clothing.



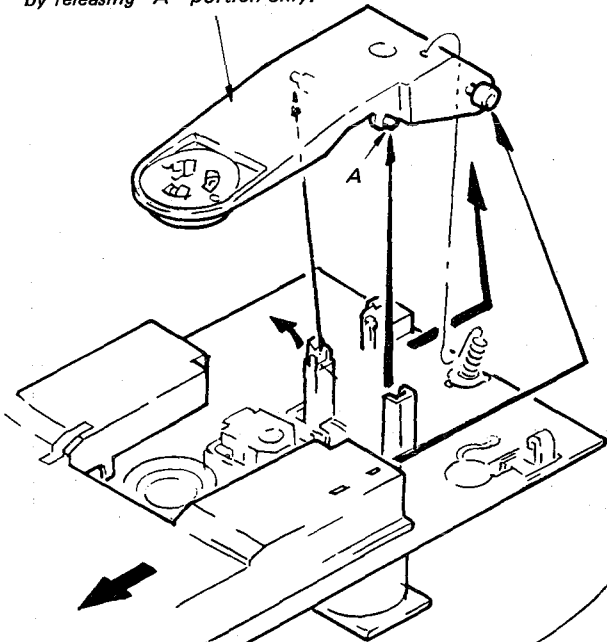
NOTES ON CHECKING THE LASER DIODE AND FOCUS SEARCH OPERATION

[CAUTION]

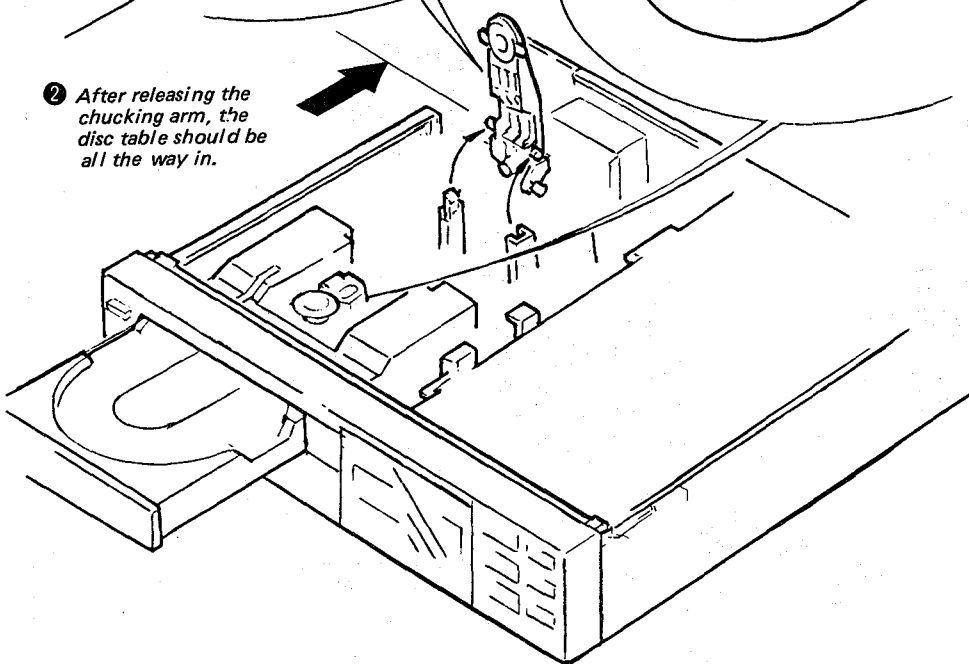
The laser beam on this set is converged by the objective lens in the optical block so that it focuses on the disc reflective surface. Therefore, when checking light emission of the laser diode, be sure to keep the eyes more than 30 cm away from the objective lens.

Check if the following operation is performed by looking at the objective lens after releasing the chucking arm and turning the POWER switch on. (Optical block should be at the innermost circumference when checking.) At the same time the LASER DIODE'S LIGHT EMISSION may be checked.

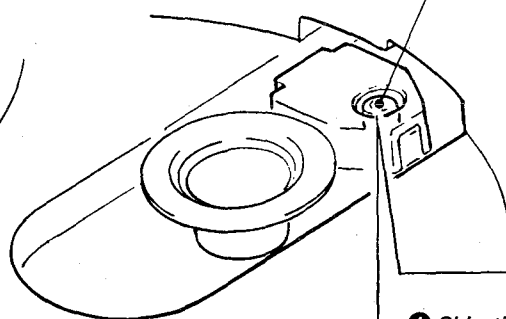
- ① Release the chucking arm. This figure shows the entire chucking arm released, but checking can be done by releasing "A" portion only.



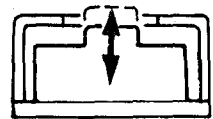
- ② After releasing the chucking arm, the disc table should be all the way in.



- ③ When the POWER switch is turned on, diffused laser light can be seen.

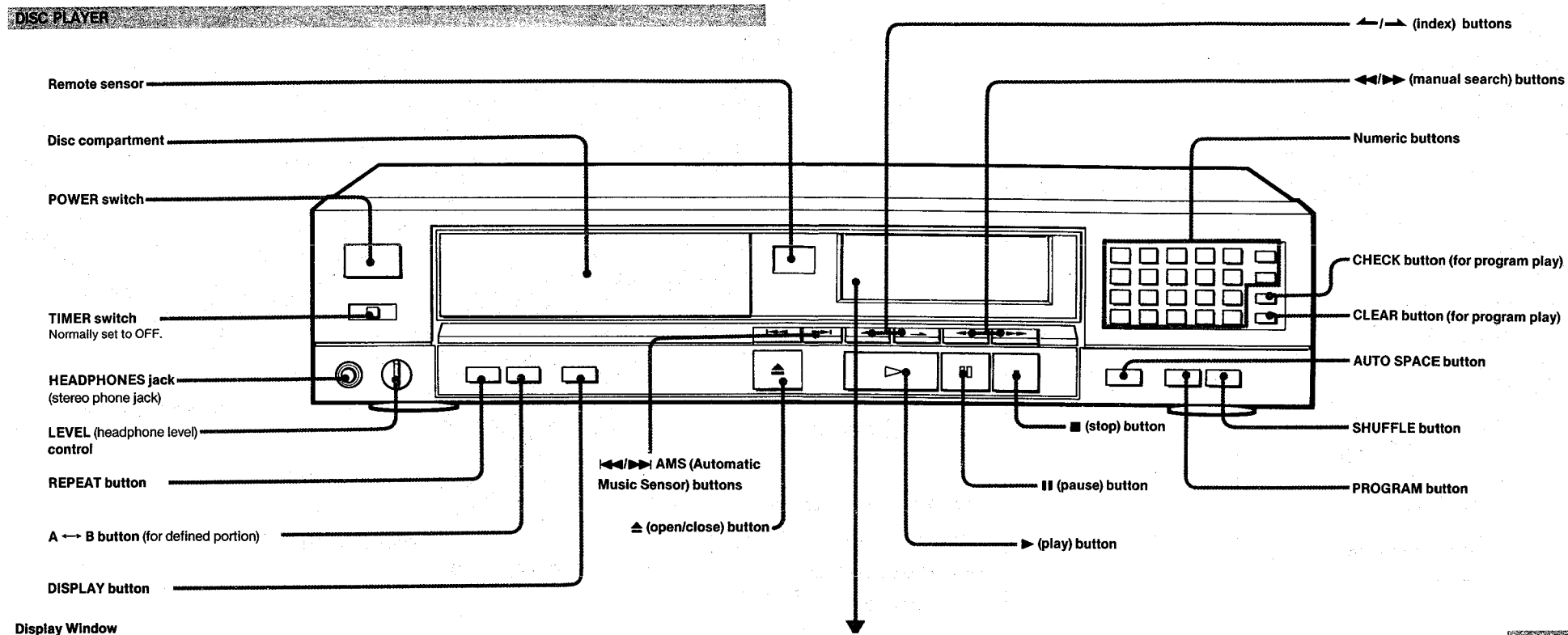


- ④ Objective lens moves up and down (2 - 3 times)

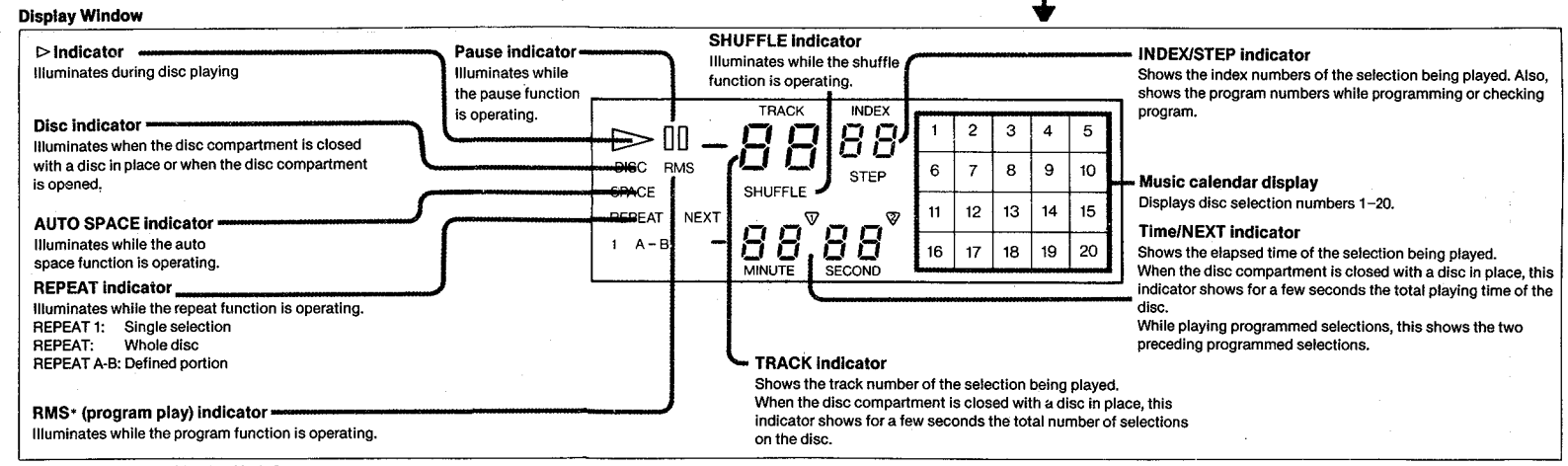
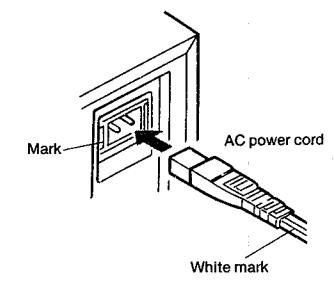


side view of the objective lens

LOCATION OF CONTROLS

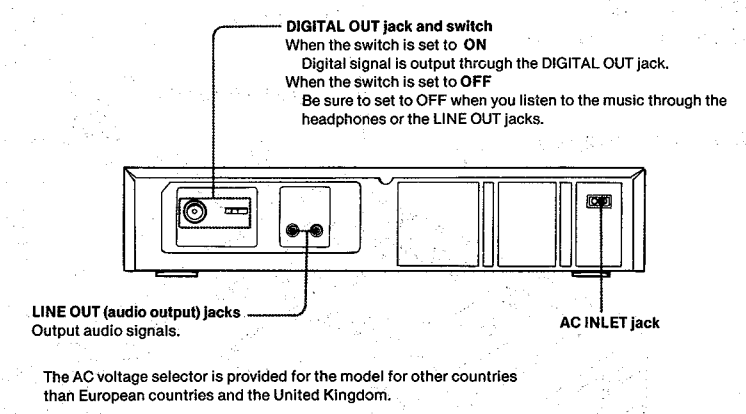


AC power cord
A white mark is visible on one lead of the power cord. Plug the cord into the AC INLET jack at the rear of the player so that its white mark matches the mark on the AC INLET jack. This aligns the polarity of the power cord for optimum sound quality.



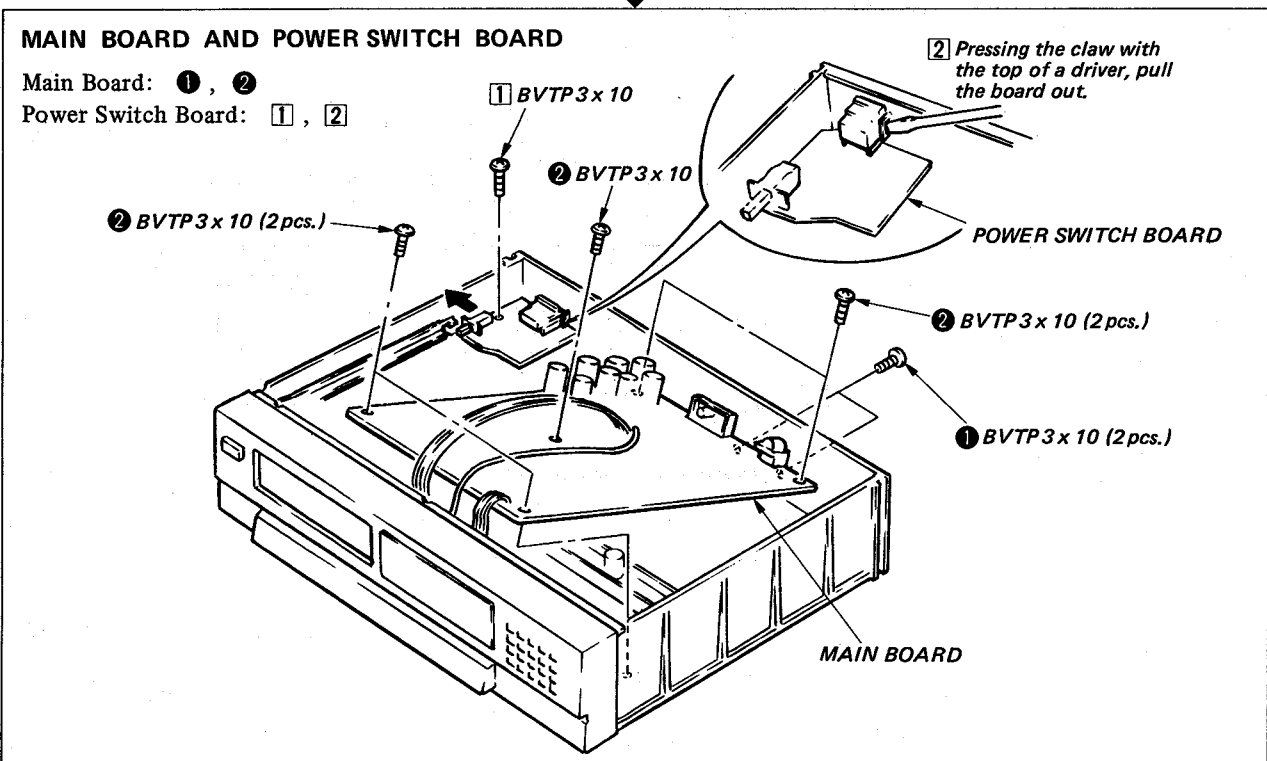
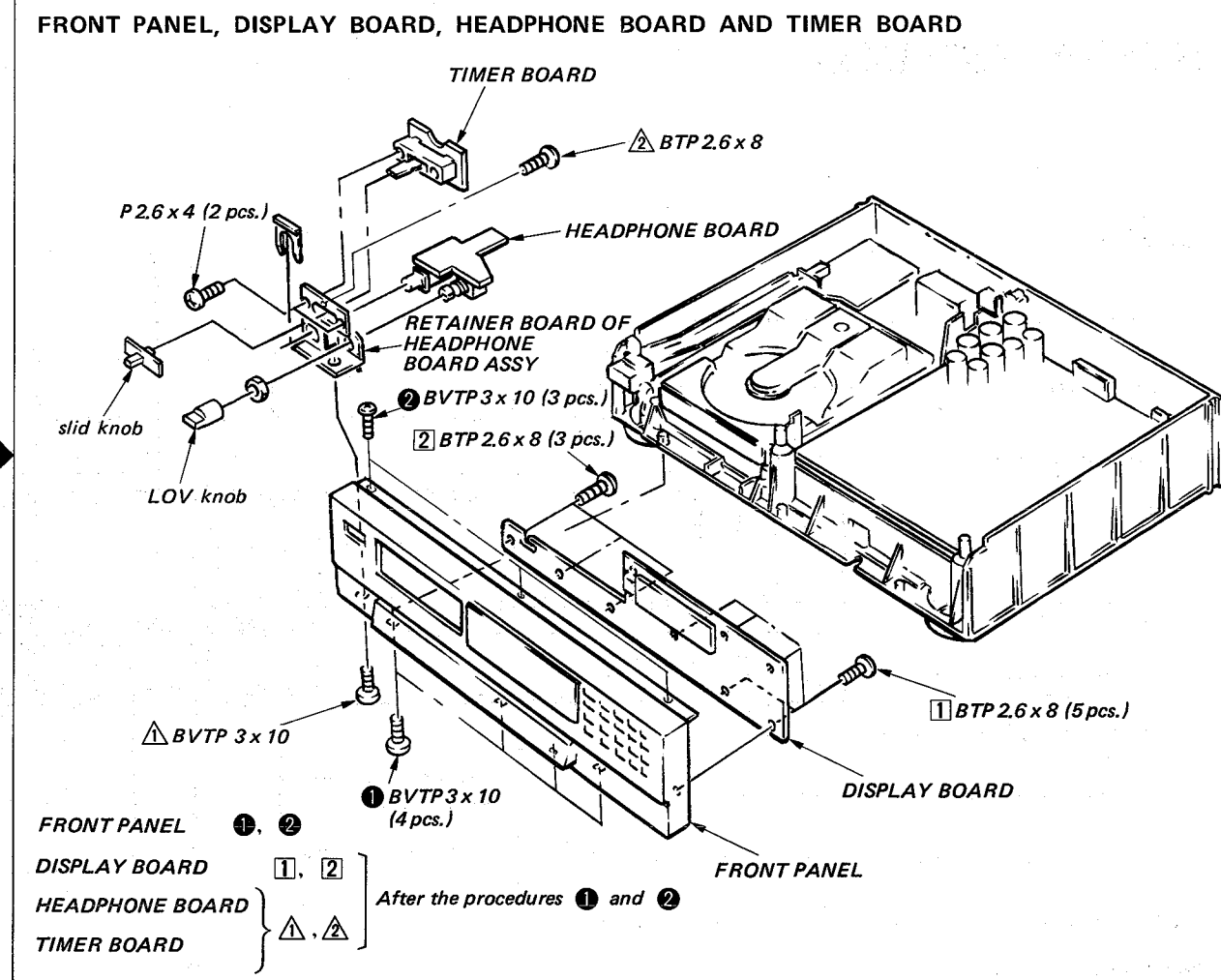
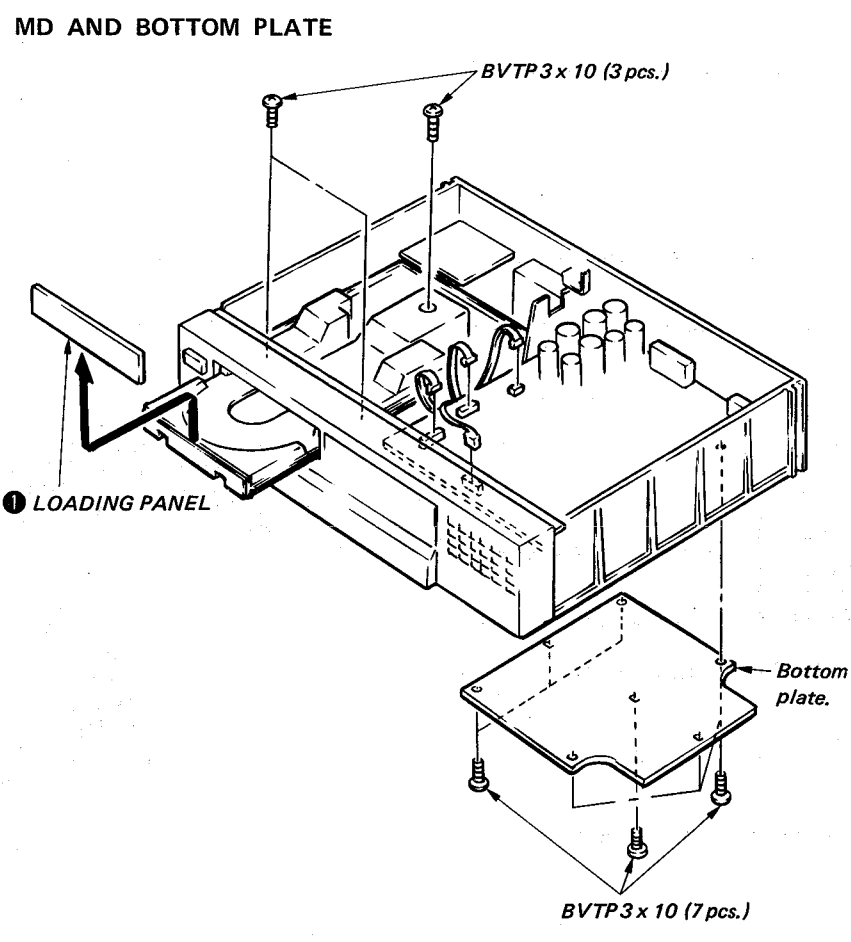
* RMS is an abbreviation of Random Music Sensor.

DESCRIPTION ON REAR PANEL



SECTION 1 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.



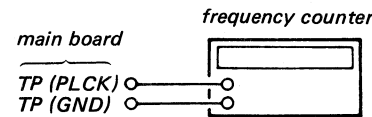
SECTION 2 ADJUSTMENTS

ELECTRICAL ADJUSTMENTS

1. Perform adjustments in the order given.
2. Use YEDS-1 disc unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.

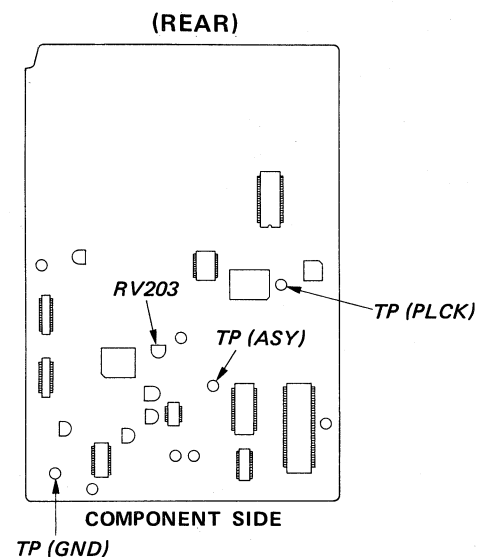
RF PLL Frequency Adjustment/Lock Frequency Check

Procedure:



1. Ground test point TP (ASY).
2. Connect the frequency counter to the test points TP (PLCK) and TP (GND).
3. Turn POWER switch on.
4. Adjust RV203 so that the reading on the frequency counter is 4.3218 MHz ± 30 kHz. ... (RF PLL frequency adjustment)
5. Remove the grounding wire from TP (ASY).
6. Put the disc (YEDS-1) in and press button.
7. Confirm that the reading on the frequency counter is locked at 4.3218 MHz.

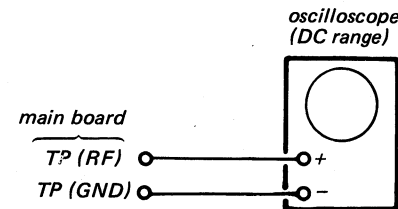
Adjustment Location: main board



Focus Bias Adjustment

This adjustment should be made after replacing the Optical Pick-up Block.

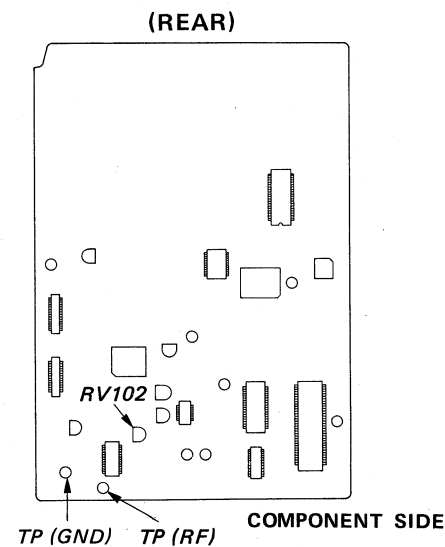
Procedure:



1. Connect oscilloscope to the test points TP (RF) and TP (GND).
2. Turn POWER switch on.
3. Put the disc (YEDS-1) in and press ▷ button.
4. Adjust RV102 for an optimum waveform eye pattern. Optimum eye pattern means that shape "◊" can be clearly distinguished at the center of the waveform.



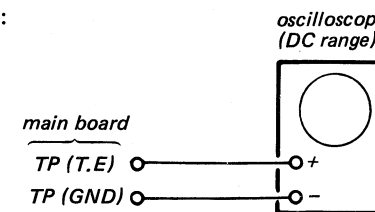
Adjustment Location: main board



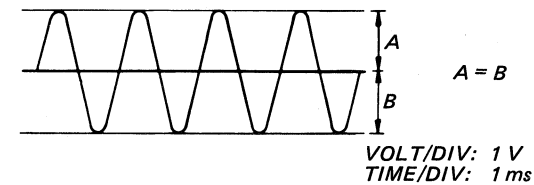
E-F Balance Adjustment

This adjustment should be made after replacing the Optical Pick-up Block.

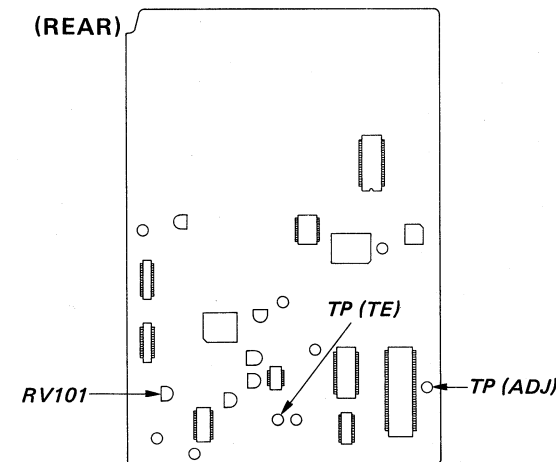
Procedure:



1. Connect the oscilloscope to the test points TP (T.E) and TP (GND).
2. Ground TP (GND) to set an adjustment mode.
3. Turn POWER switch on.
4. Put the disc (YEDS-1) in and press ▷ button.
5. Adjust RV101 so that the traverse waveform is symmetrical above and below.
6. After adjustment, cancel the adjustment mode.



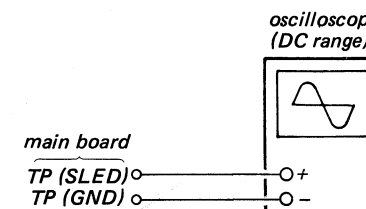
Adjustment Location: main board



SLED MOTOR OFF-SET ADJUSTMENT

This adjustment should be made after replacing the Optical Pick-up Block.

Procedure:



REFERENCE

Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, this adjustment is not recommended generally to be performed.

Focus/tracking gains determine the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

| Symptoms | Gain | Focus | Tracking |
|---|-------------|-------|-------------|
| • The time until music starts becomes longer for STOP → ▷PLAY or automatic selection (◀▶ buttons pressed. (Normally takes about 2 seconds.) | | low | low or high |
| • Music does not start and disc continues to rotate for STOP → ▷PLAY or automatic selection (◀▶ buttons pressed.) | | — | low |
| • Disc table opens shortly after STOP → ▷PLAY. | low or high | — | — |
| • Sound is interrupted during PLAY. Or time counter display stops progressing. | | — | low |
| • More poise during 2-axis device operation. | high | high | high |

1. Keep the set flat.
2. Connect the oscilloscope to TP (SLED) and TP (GND).
3. Turn Power switch on.
4. Adjust RV204 so that the reading of the oscilloscope will be within ±50mV.

The following

— Simple Adjust

Note: Since exact number the position adjustment are or the original

Procedure:

main board

TP (FE) ○

TP (TE) ○

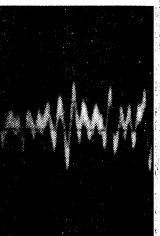
1. Keep the set flat.

If the set cannot be positioned the 2 axis device

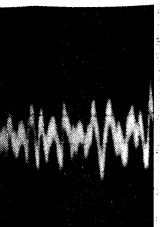
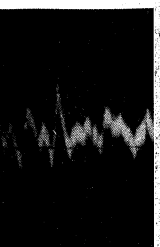
2. Insert the button.

3. Connect the (GND).

4. Adjustment shown in the ment)



- Incorrect E from the adj

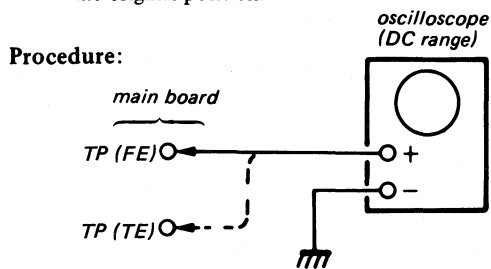


necessary in
 even if it is
 ore, this ad-
 to be per-
 c-up follow-
 mechanical
 -axis device
 stment is at
 1 the 2-axis
 ceptible to
 more easily.
 otoms below

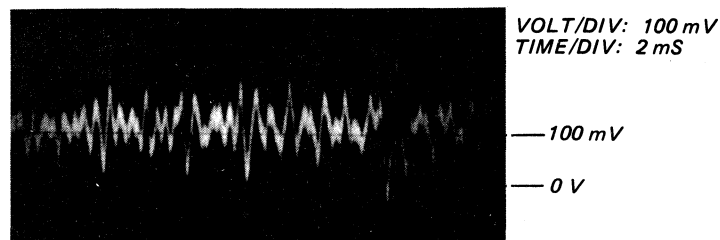
The following is a simple adjustment method.

— Simple Adjustment —

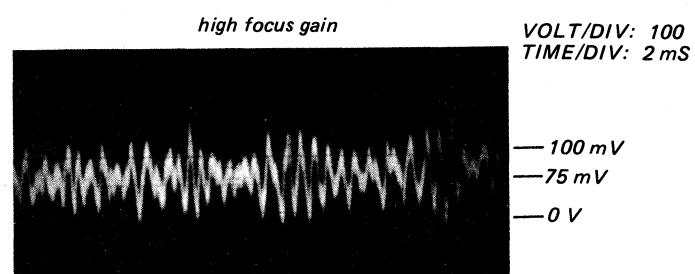
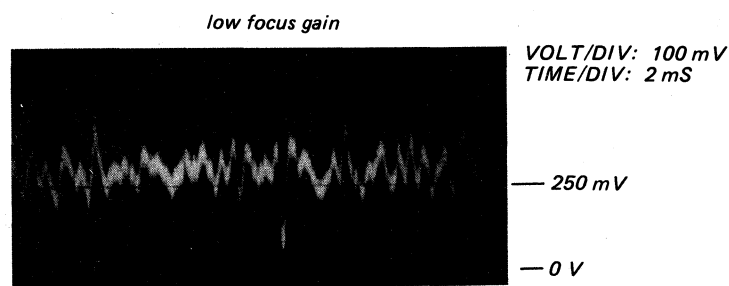
Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.



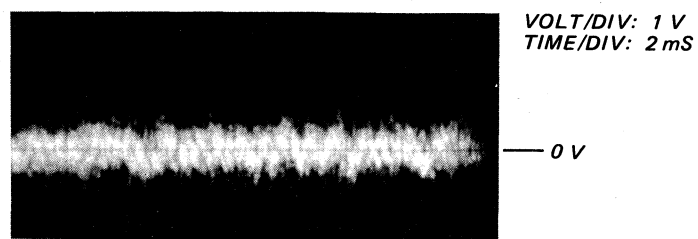
1. Keep the set flat.
 If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.
2. Insert the disc (YEDS-1) and press ▷PLAY button.
3. Connect the oscilloscope to TP (FE) and TP (GND).
4. Adjustment RV201 so that the waveform is as shown in the picture below. (focus gain adjustment)



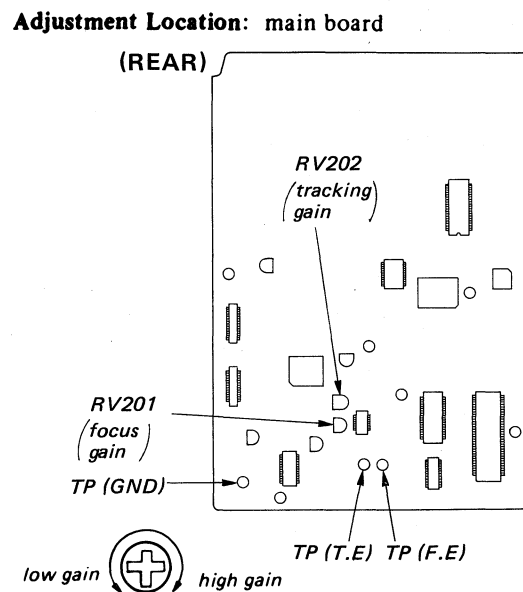
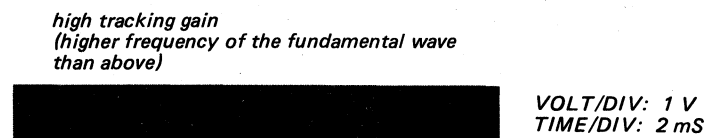
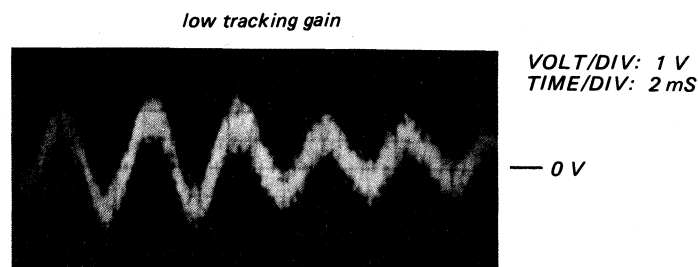
● Incorrect Examples (DC level is quite different from the adjusted waveform) (below)



5. Connect the oscilloscope to TP (TE).
6. Adjust RV202 so that the waveform is as shown in the picture below. (tracking gain adjustment)



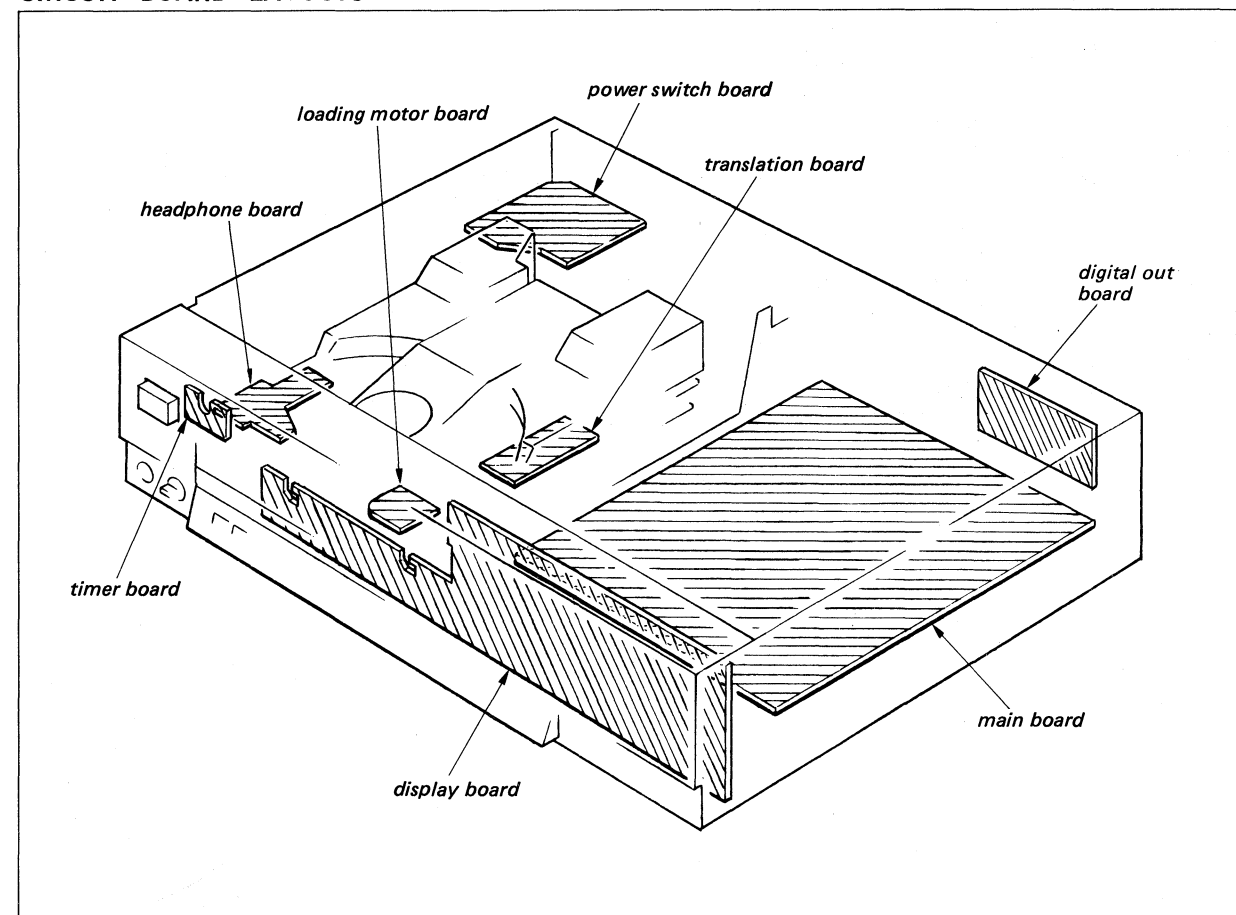
● Incorrect Examples (fundamental wave appears)



● Semiconductor Lead Layouts

| | | | | |
|---|--|--------------------------------------|---|---|
| 1SS202-1 HZS33-2L HZS9B-2L HZS4.3NB3 cathode anode | TC74HCV04P TC74HC02P 1413121110 9 8 1 2 3 4 5 6 7 (Top view) | CXD1088Q 34 22 44 12 11 | CXA1081M 30 16 1 15 (Top view) | CXD1125Q 64 40 85 25 MARKING SIDE VIEW |
| DF02M RDF02M | MC14053BF TDA1541-N5 28 15 1 14 (Top view) | STA341M M5218L 1 2 3 4 5 6 7 8 | M5F7905 M5F79M15 COMMON IN OUT | LA6500-FA 2SA1428Y 1 2 3 4 5 E C B |
| GP08DPKG23 | LC6523H-3270 30 16 1 15 (Top view) | NJM4560S 1 2 3 4 5 6 7 8 9 | LC3516AML-15 (Top view) | 2SC3622A-K E C B |
| NE5532P 8 7 6 5 1 2 3 4 (Top view) | MSM6404A-181RS 42 40 35 30 25 27 1 5 10 15 21 (Top view) | M5F7805 M5F7815 IN GND OUT | CXA1082AQ 64 37 1 36 12 13 24 25 | DTC114ES DTA114ES 2SC634SP E C B |
| | CXP5016H-206S 64 33 1 32 (Top view) | | | 2SB734 2SD774 E C B |

CIRCUIT BOARD LAYOUTS

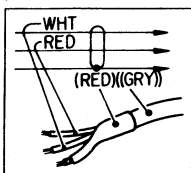


SECTION 3 DIAGRAMS

3-1. MOUNTING DIAGRAM

Note:

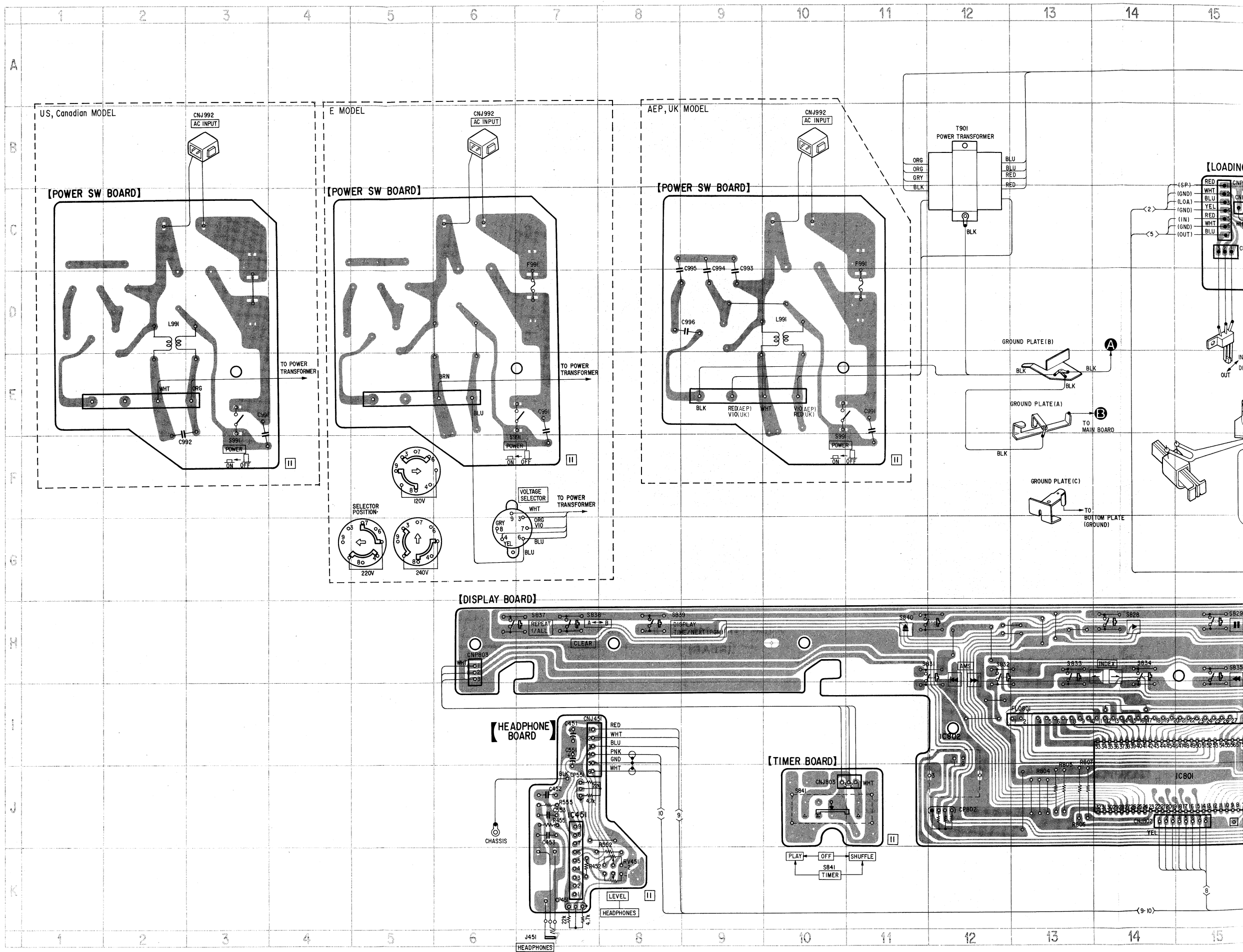
- Color code of sleeving over the end of the jacket.

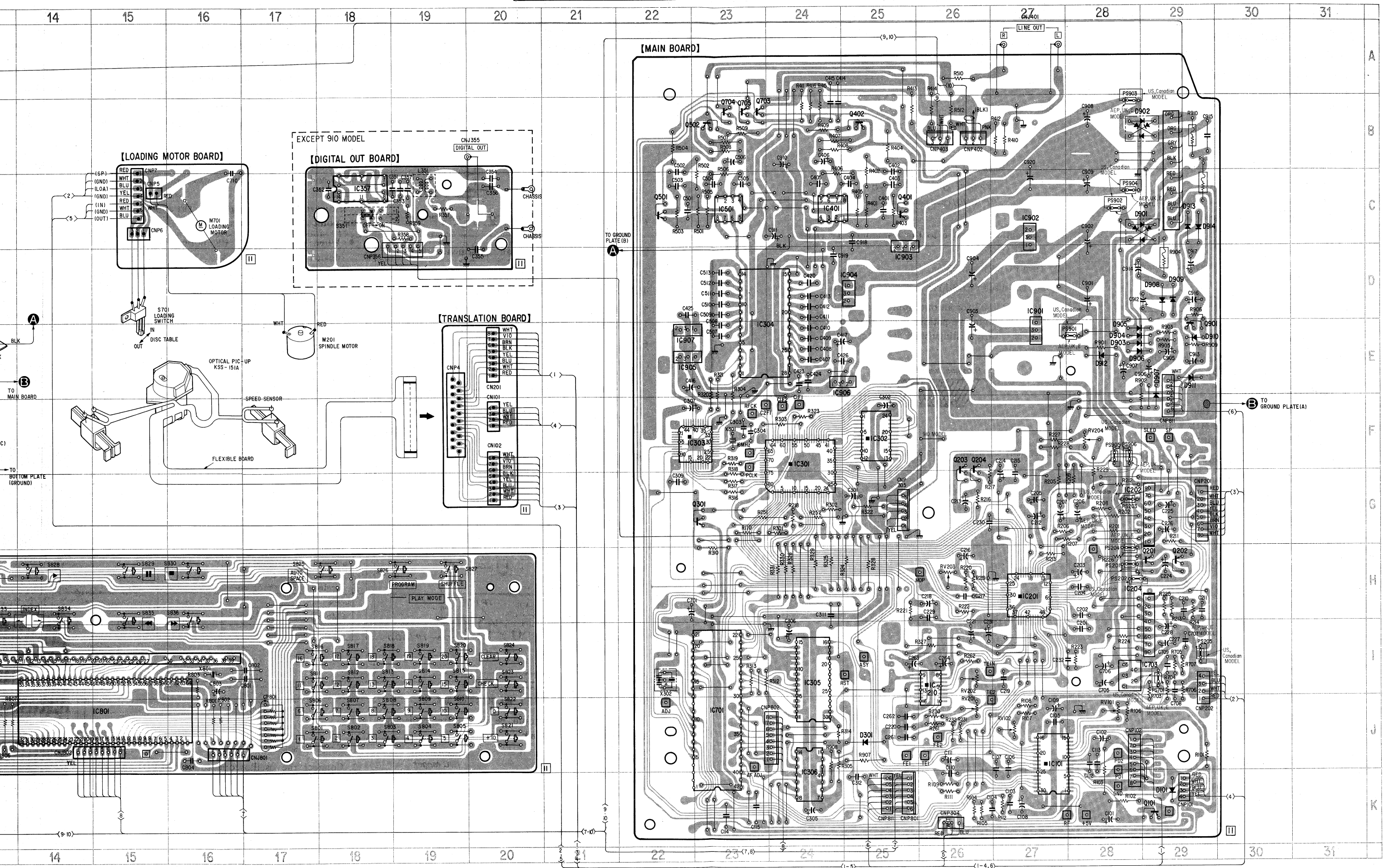


- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : part mounted on the conductor side.

SEMICONDUCTOR LOCATIONS

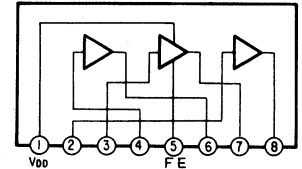
| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D101 | K-29 | IC401 | C-24 |
| D301 | J-25 | IC451 | J-7 |
| D901 | C-29 | IC501 | C-23 |
| D902 | B-29 | IC701 | J-23 |
| D903 | E-28 | IC703 | I-29 |
| D904 | E-28 | IC801 | J-15 |
| D905 | E-28 | IC802 | I-12 |
| D906 | E-28 | IC901 | D-27 |
| D907 | E-29 | IC902 | C-27 |
| D908 | D-29 | IC903 | D-25 |
| D909 | D-29 | IC904 | D-25 |
| D910 | E-29 | IC905 | E-22 |
| D911 | E-29 | IC906 | E-24 |
| D912 | E-28 | IC907 | E-22 |
| D913 | C-29 | | |
| D914 | C-29 | Q101 | K-29 |
| | | Q201 | H-29 |
| IC101 | J-27 | Q202 | H-29 |
| IC201 | H-27 | Q203 | F-26 |
| IC202 | G-28 | Q204 | F-26 |
| IC204 | H-28 | Q301 | G-23 |
| IC210 | I-26 | Q401 | C-25 |
| IC301 | E-24 | Q402 | B-25 |
| IC302 | F-25 | Q501 | C-22 |
| IC303 | F-23 | Q502 | B-23 |
| IC304 | E-23 | Q703 | B-23 |
| IC305 | I-24 | Q704 | B-23 |
| IC306 | J-24 | Q705 | B-23 |
| IC357 | C-18 | Q901 | E-29 |



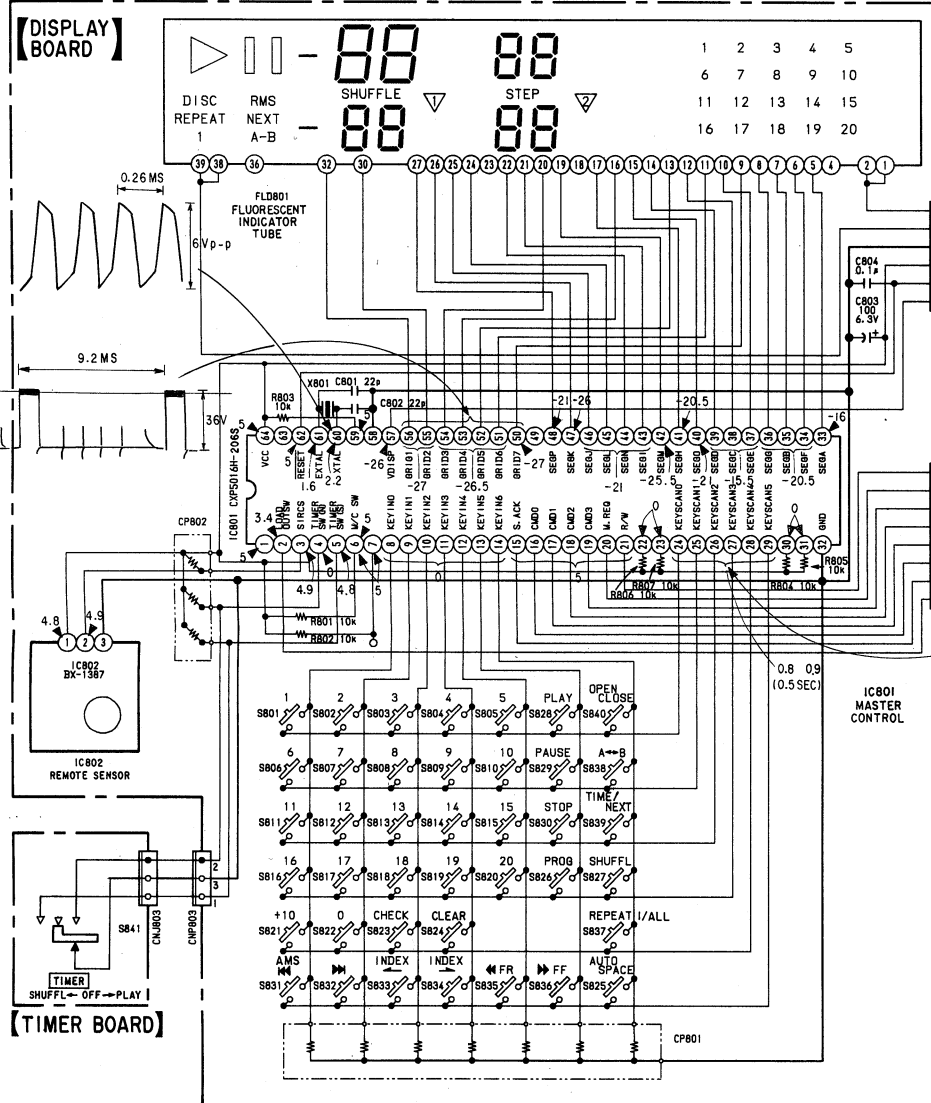
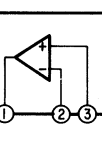


3-2. SCHEMATIC DIAGRAM

IC202 STA341M



IC204 M5



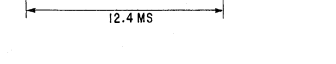
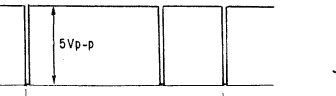
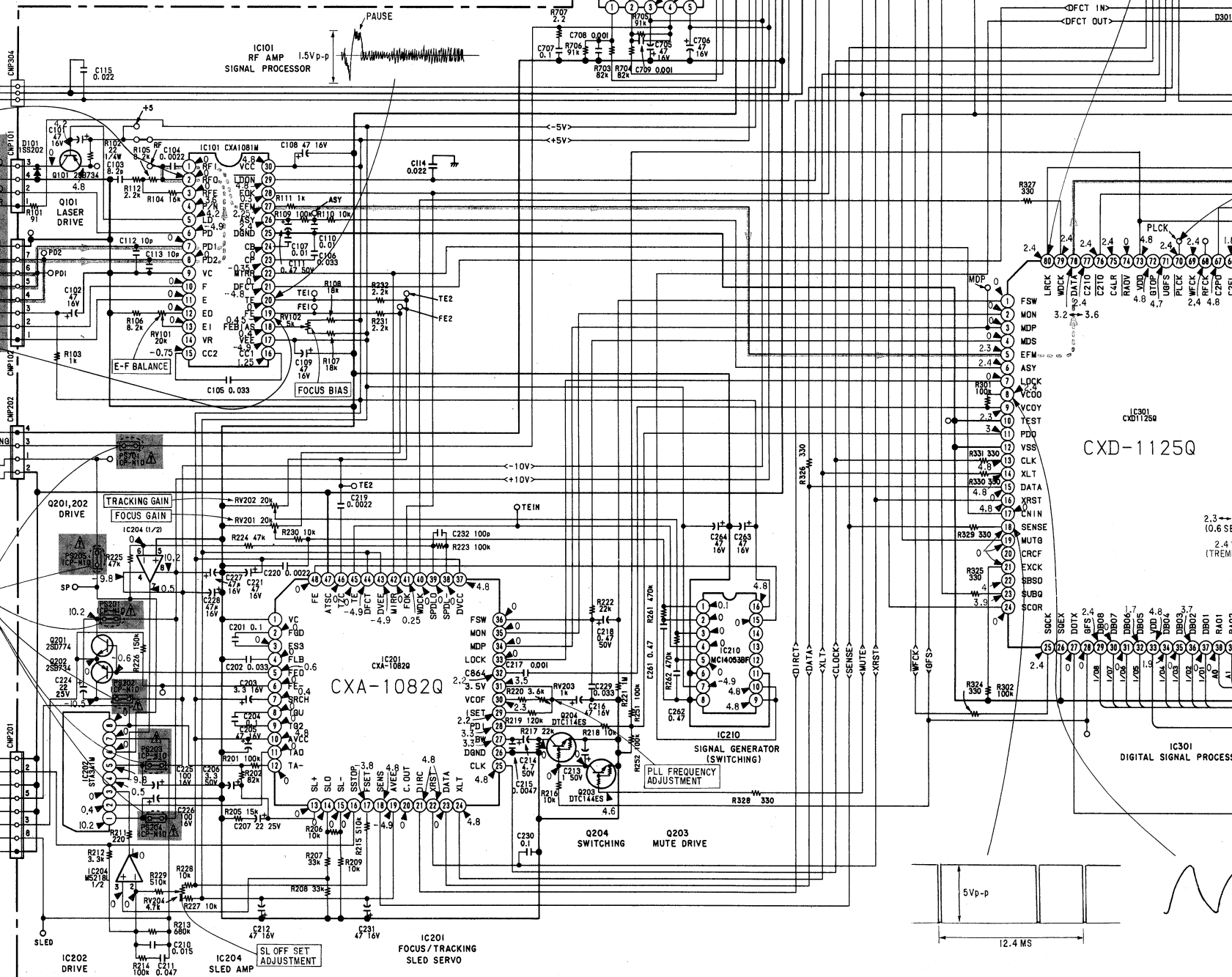
[MAIN BOARD]

[LOADING MOTOR BOARD (1/2)]

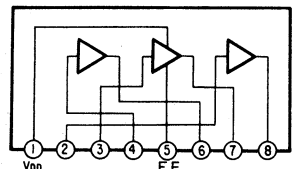
[LOADING MOTOR BOARD (2/2)]

AEP, UK, E MODEL
US, Canadian MODEL

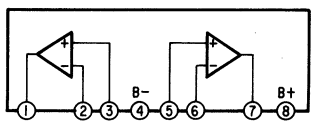
OPTICAL PICK-UP BLOCK KSS-151A



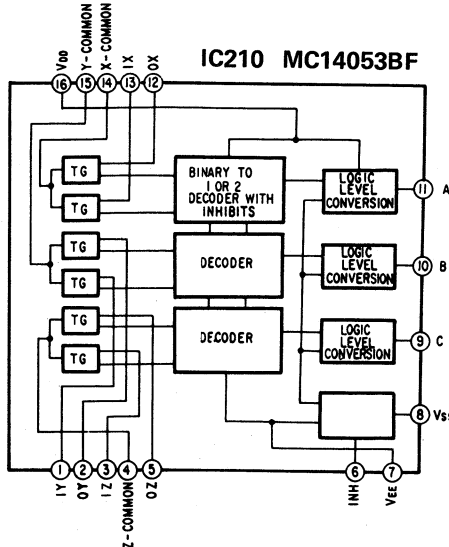
IC202 STA341M



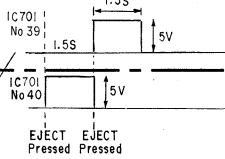
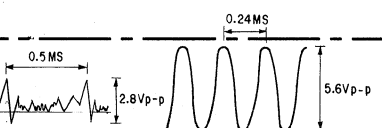
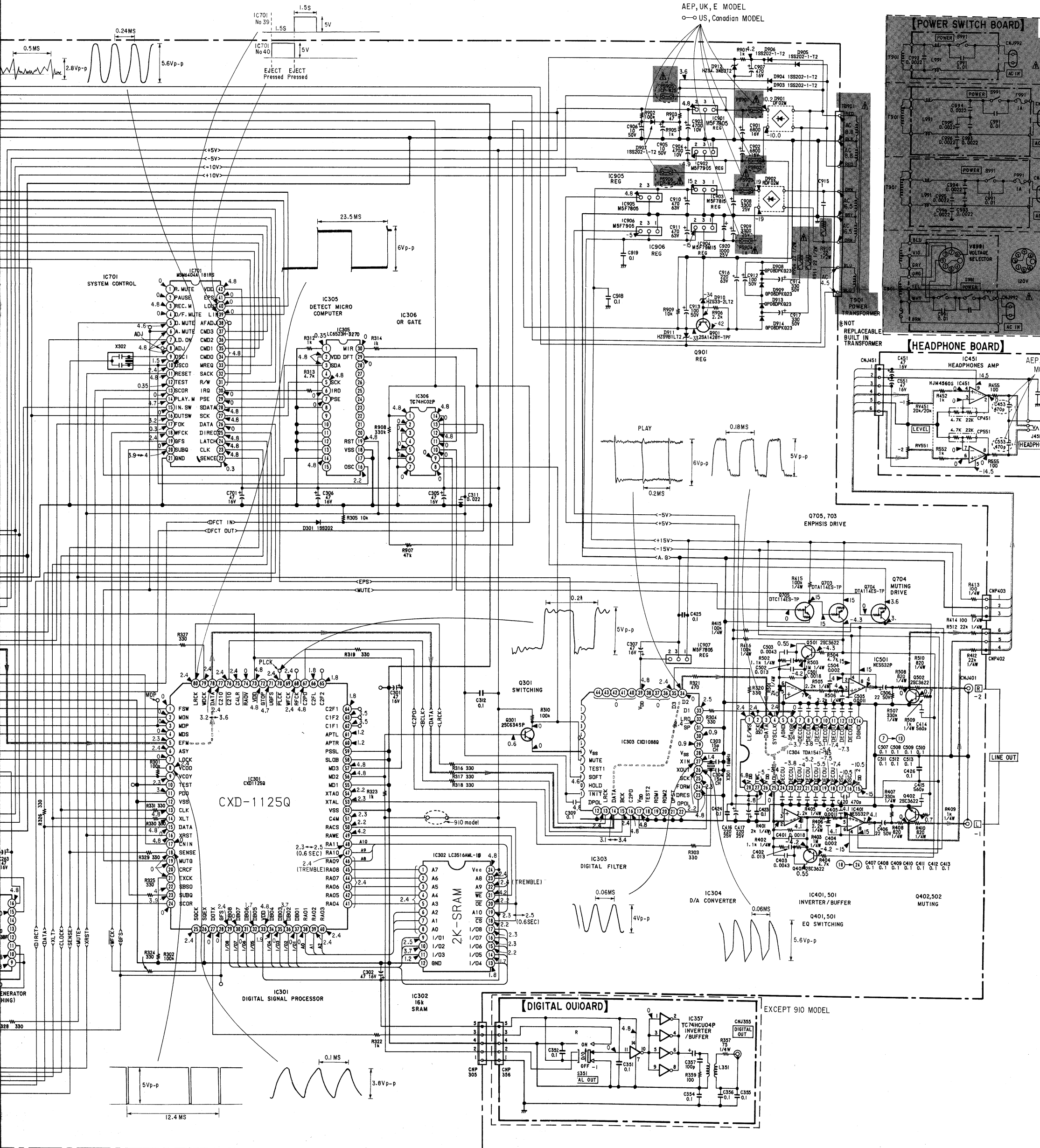
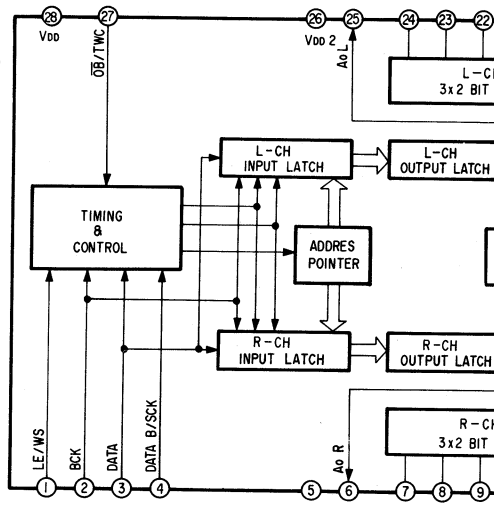
IC204 M5218L



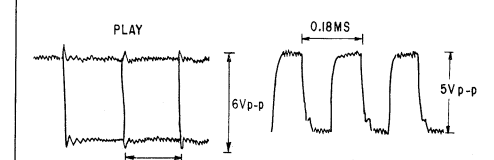
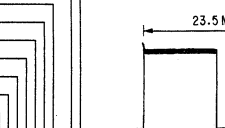
IC210 MC14053BF



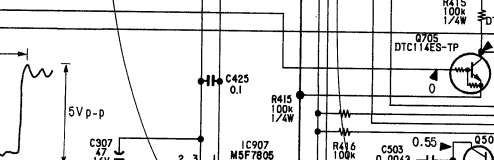
IC304 TDA1541-N5



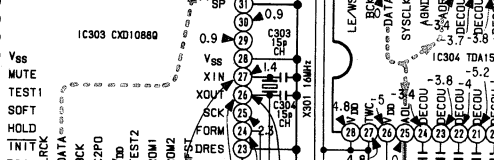
EJECT EJECT Pressed Pressed



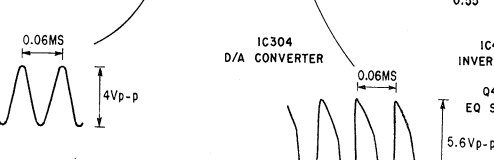
PLAY 0.18MS 6Vp-p



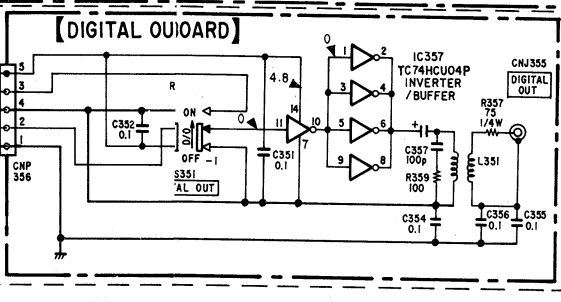
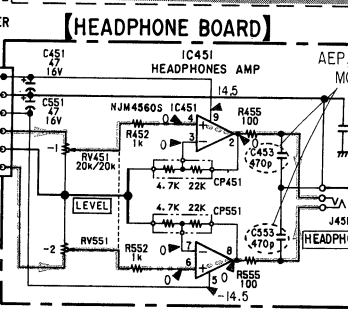
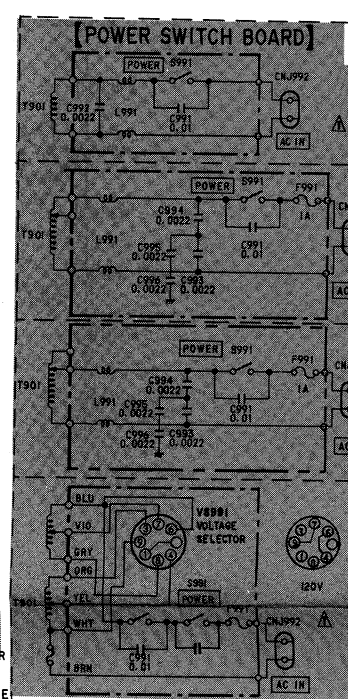
0.21 5Vp-p



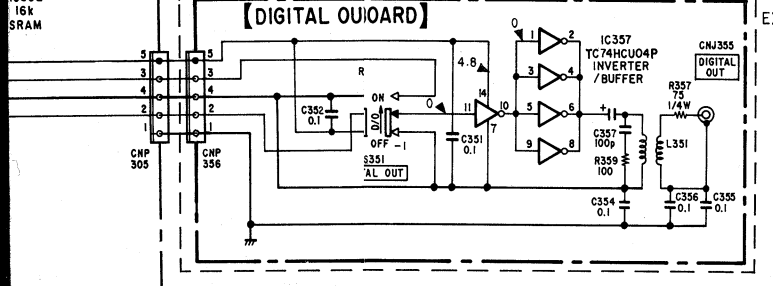
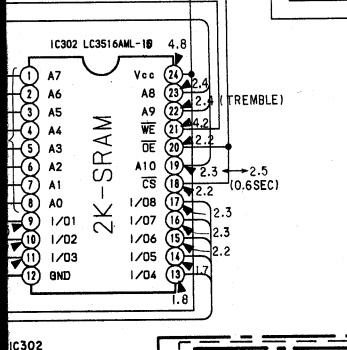
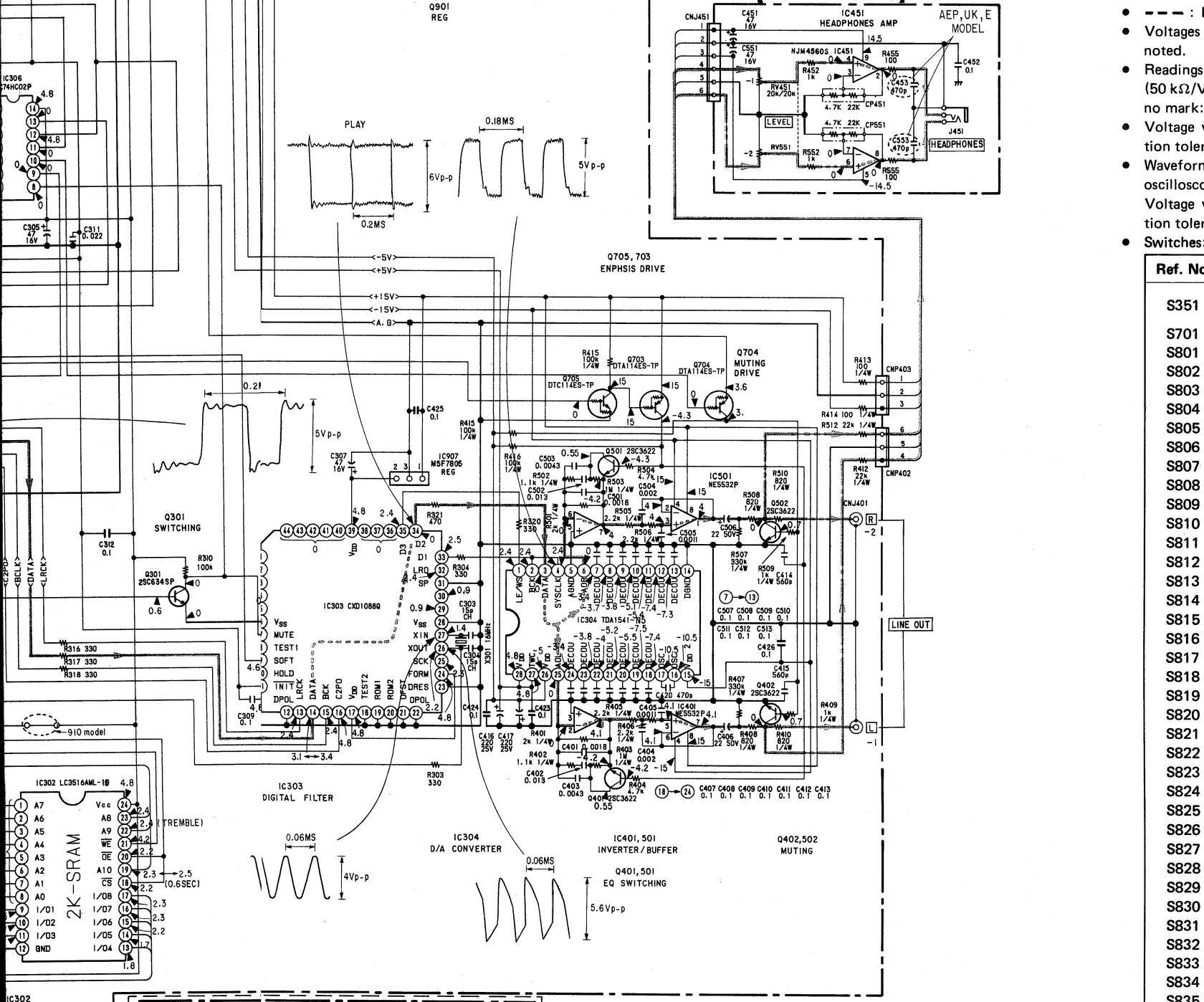
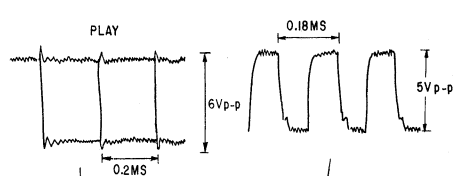
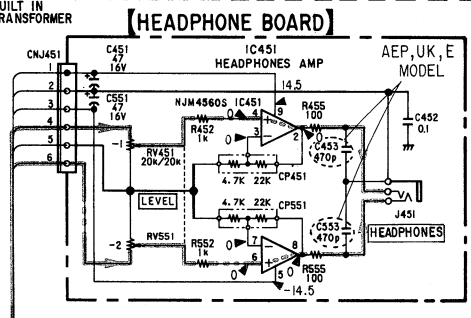
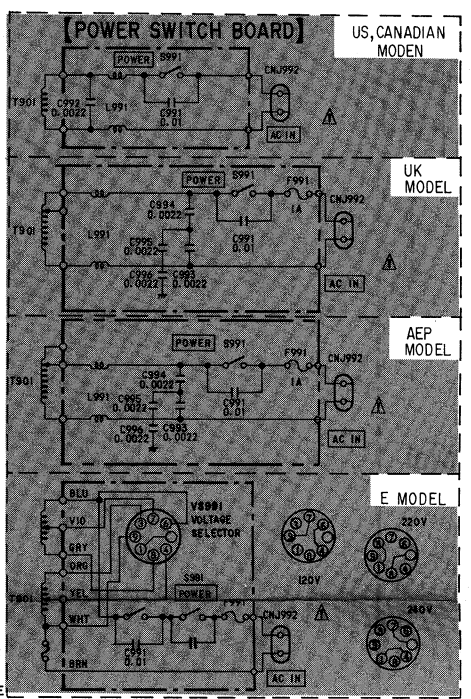
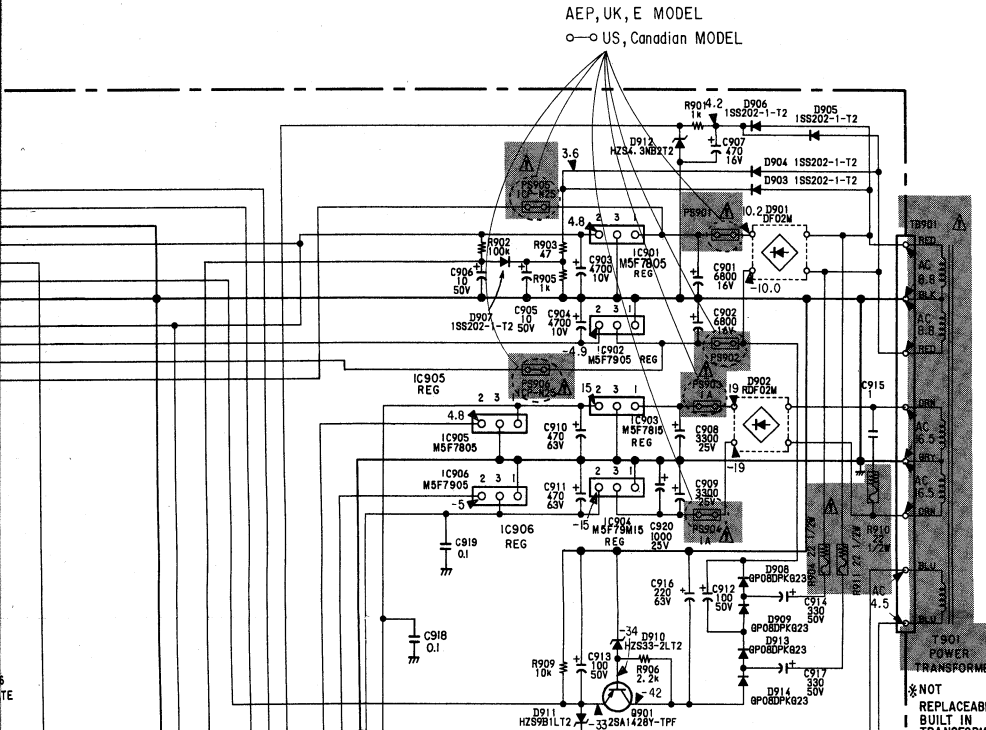
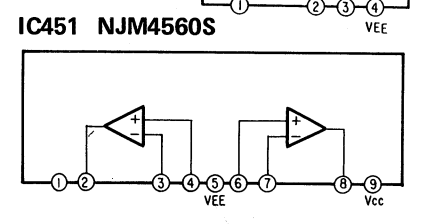
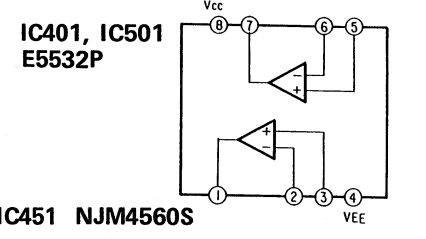
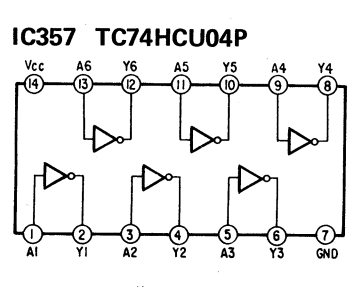
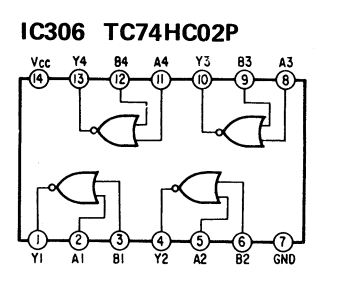
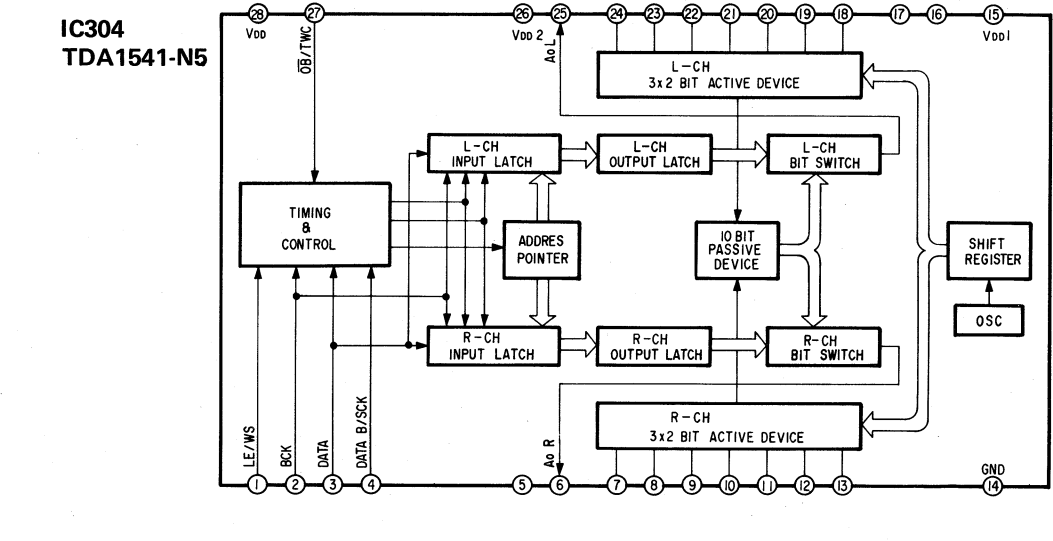
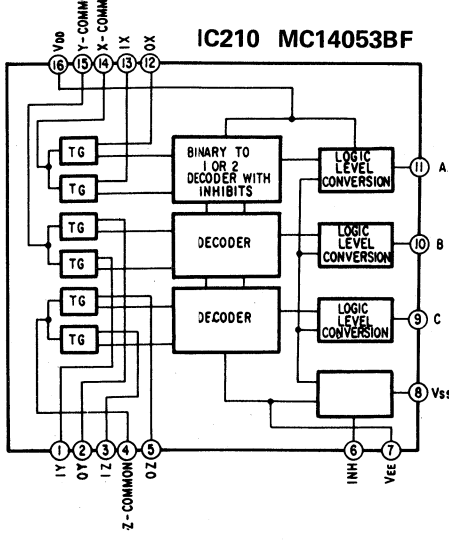
0.06MS 4Vp-p



0.06MS 5.6Vp-p



EXCEPT 910 MODEL

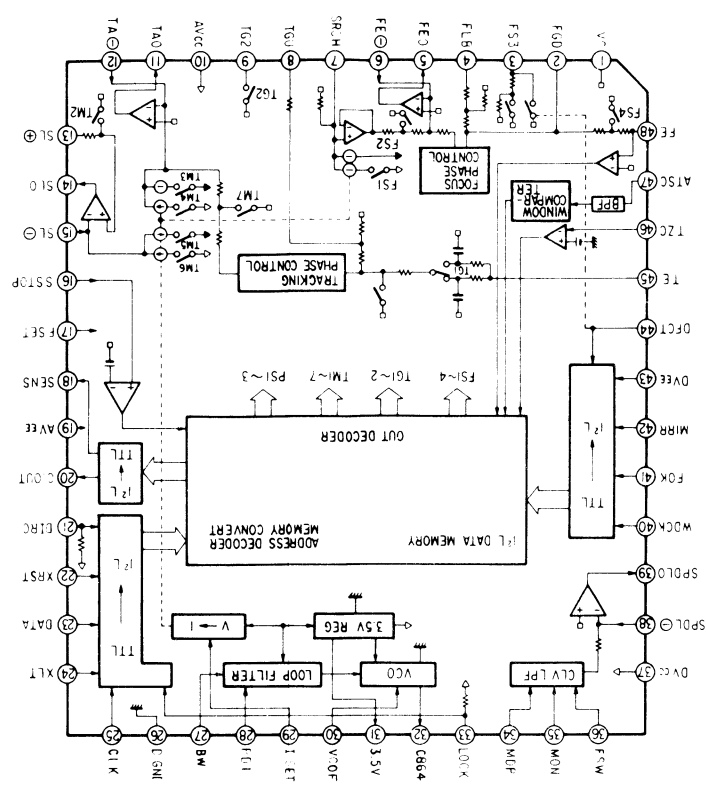


- Note:**
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
 - Main signal path
 - L-CH signal path
 - R-CH signal path
 - fusible resistor.
 - B+ bus.
 - Voltagages are dc with respect to ground unless otherwise noted.
 - Readings are taken under STOP conditions with a VOM (50 k Ω /V). no mark: STOP
 - Voltage variations may be noted due to normal production tolerances.
 - Waveforms are taken to ground in PLAY mode by using oscilloscope. Voltage variations may be noted due to normal production tolerances.
 - Switches:

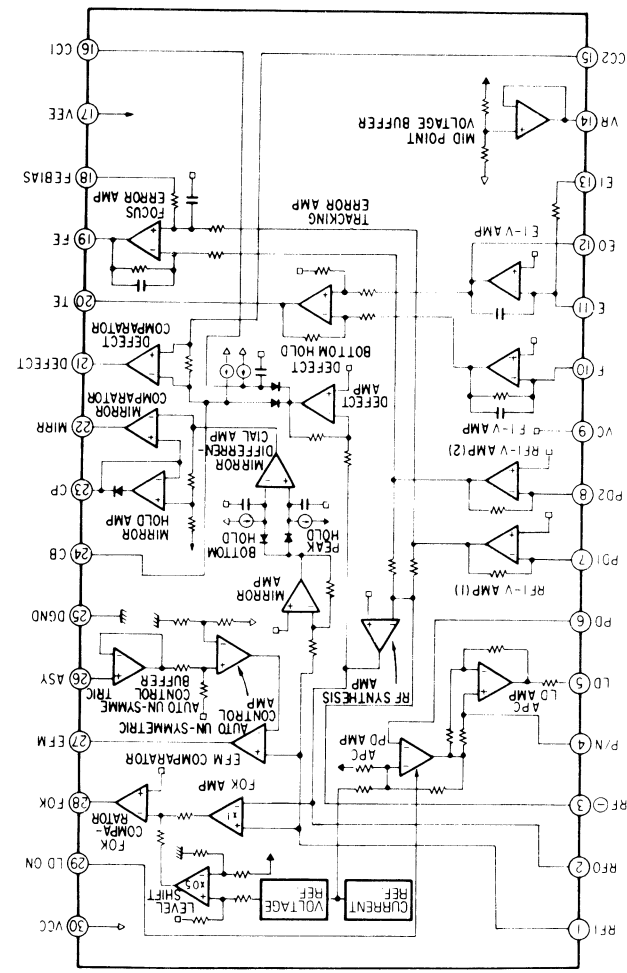
| Ref. No. | Switch | Position |
|----------|---|----------|
| S351 | DIGITAL OUT (222ESD, 505ESD) (LOADING SWITCH) | OFF |
| S701 | 1 | OFF |
| S801 | 2 | OFF |
| S802 | 3 | OFF |
| S803 | 4 | OFF |
| S804 | 5 | OFF |
| S805 | 6 | OFF |
| S806 | 7 | OFF |
| S807 | 8 | OFF |
| S808 | 9 | OFF |
| S809 | 10 | OFF |
| S810 | 11 | OFF |
| S811 | 12 | OFF |
| S812 | 13 | OFF |
| S813 | 14 | OFF |
| S814 | 15 | OFF |
| S815 | 16 | OFF |
| S816 | 17 | OFF |
| S817 | 18 | OFF |
| S818 | 19 | OFF |
| S819 | 20 | OFF |
| S820 | +10 | OFF |
| S821 | 0 | OFF |
| S822 | CHECK | OFF |
| S823 | CLEAR | OFF |
| S824 | AUTO SPACE | OFF |
| S825 | PROGRAM | OFF |
| S826 | SHUFFLE | OFF |
| S827 | ▶ | OFF |
| S828 | ■ | OFF |
| S829 | ■ | OFF |
| S830 | ▶▶ | OFF |
| S831 | AMS ▶▶ | OFF |
| S832 | AMS ◀◀ | OFF |
| S833 | INDEX ◀ | OFF |
| S834 | INDEX ▶ | OFF |
| S835 | ▶▶ | OFF |
| S836 | ▶▶ | OFF |
| S837 | REPEAT I/ALL | OFF |
| S838 | A ↔ B | OFF |
| S839 | DISPLAY TIME | OFF |
| S840 | ▲ | OFF |
| S841 | TIMER | OFF |
| S991 | POWER | OFF |

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

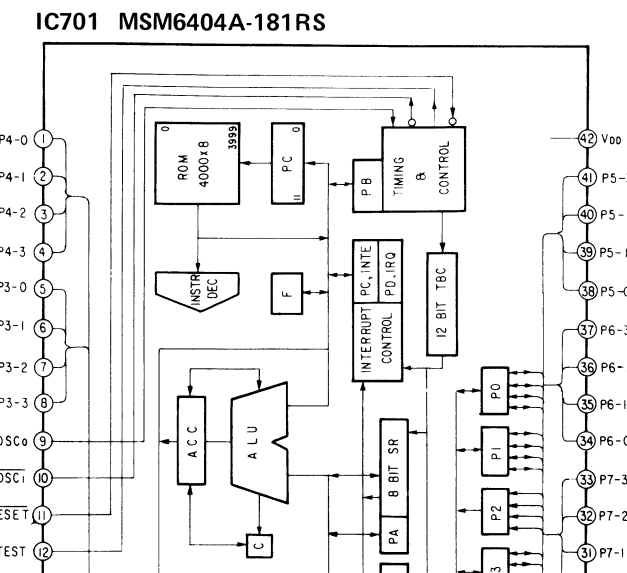
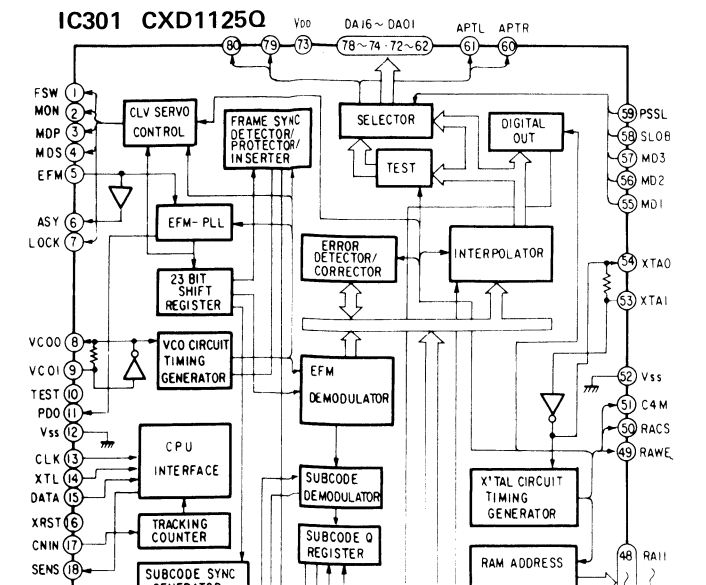
SECTION 4
EXPLODED VIEWS AND PARTS LIST



IC201 CXA10820



IC101 CXA1081M

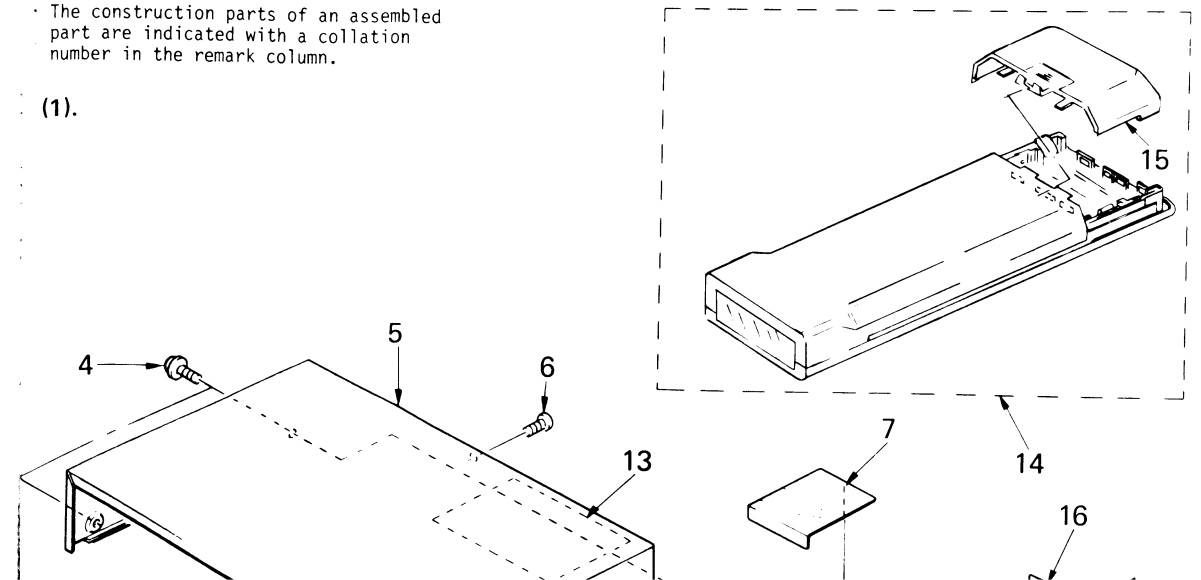


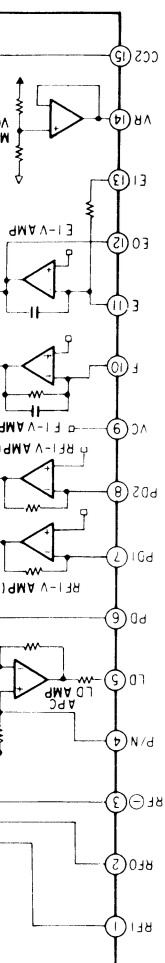
NOTE:

- 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.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark are critical for safety. Replace only with part number specified.

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





IC101 CX

CDP-222ESD/505ESD/910

CDP-222ESD/505ESD/910

SECTION 4 EXPLODED VIEWS AND PARTS LIST

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.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

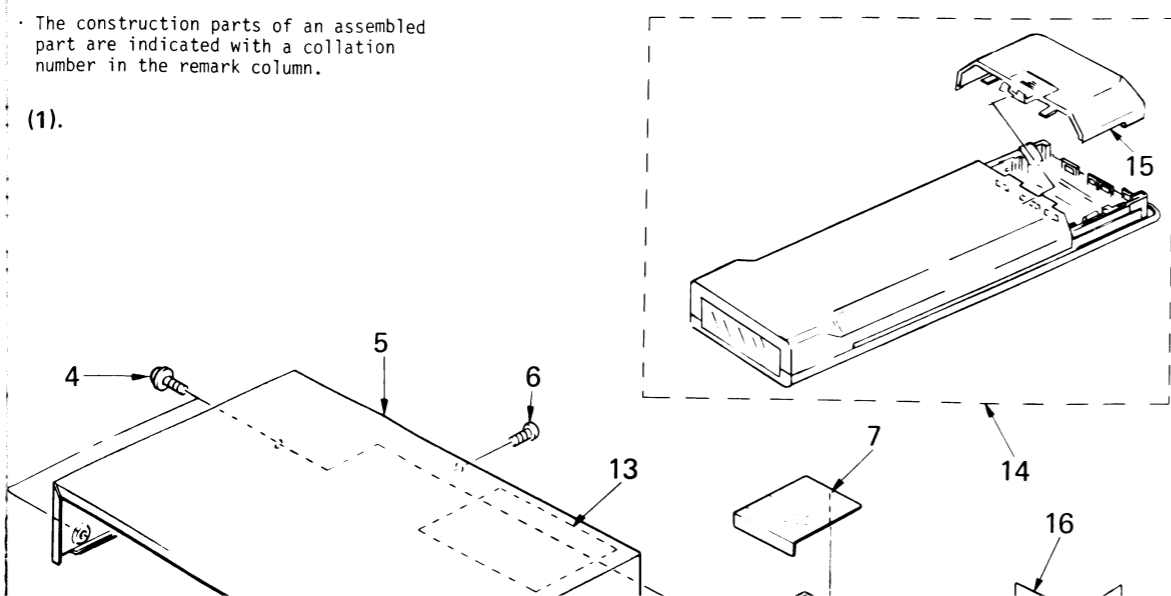
The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

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

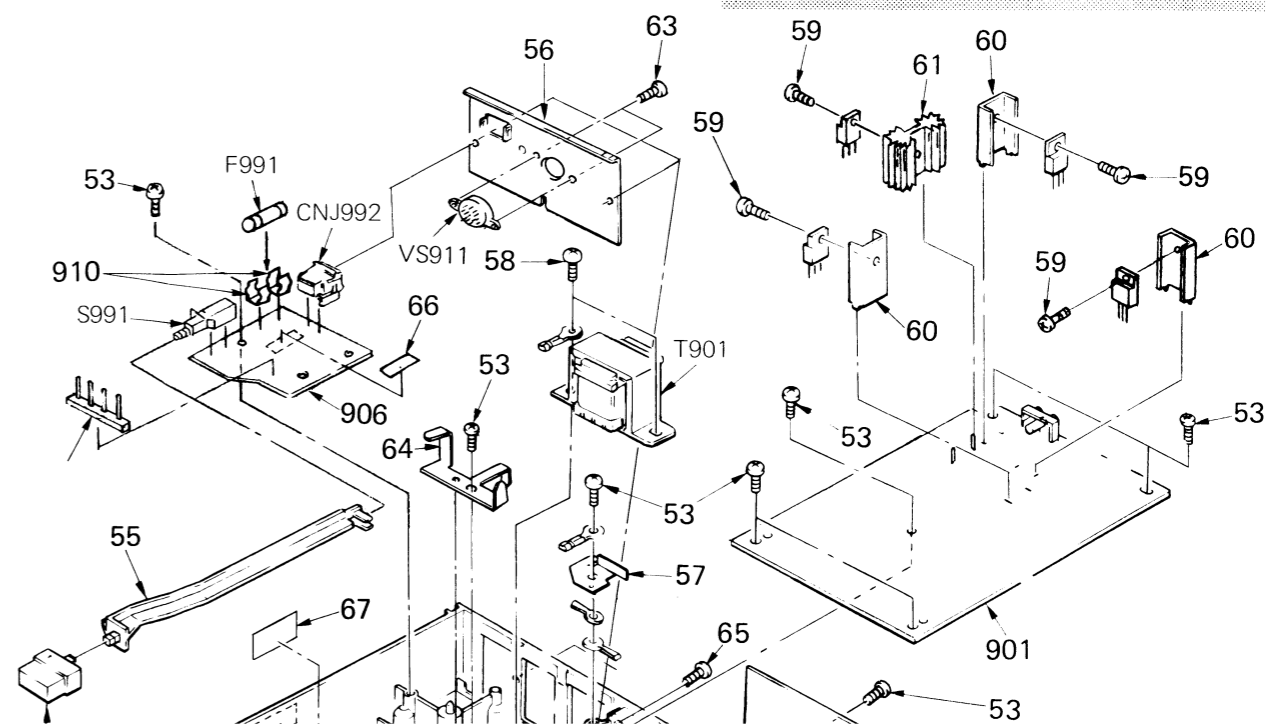
The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

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

(1).



(2).



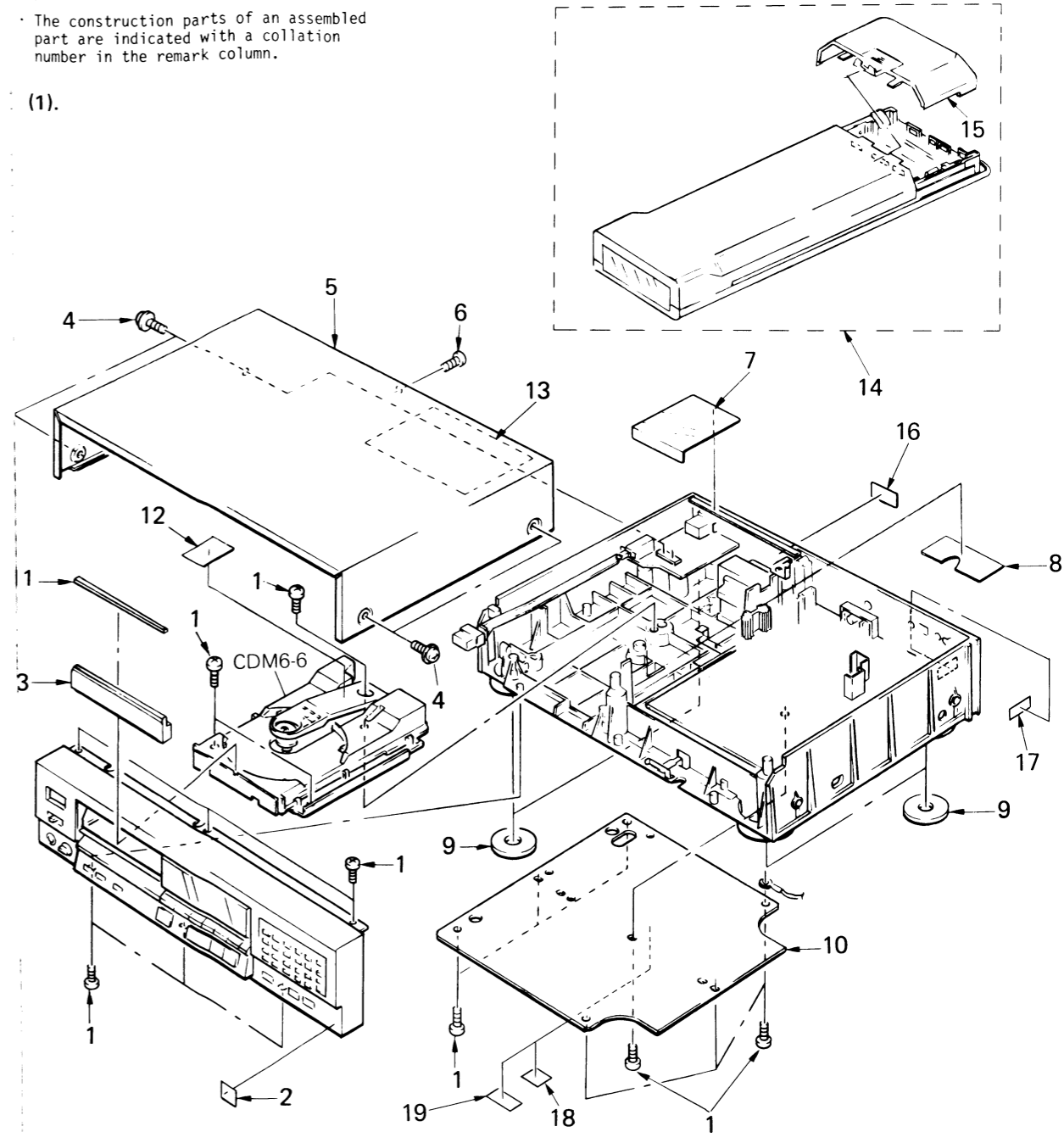
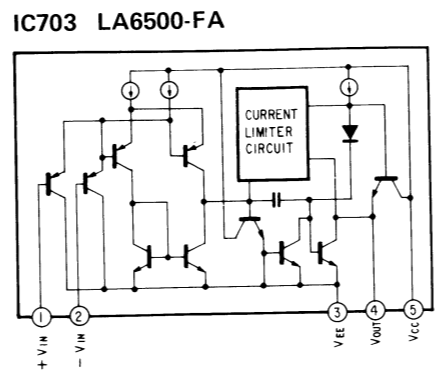
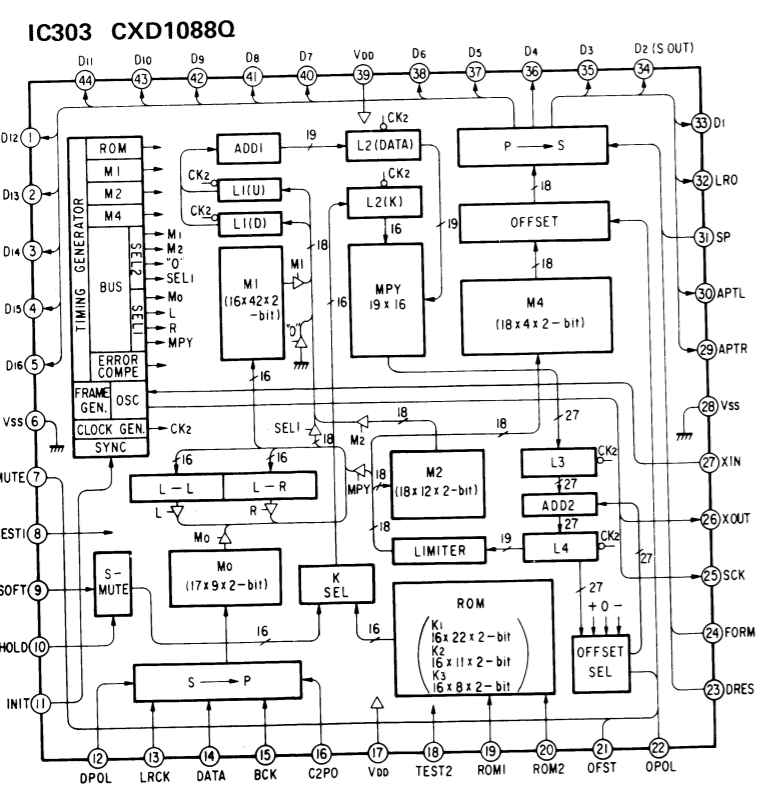
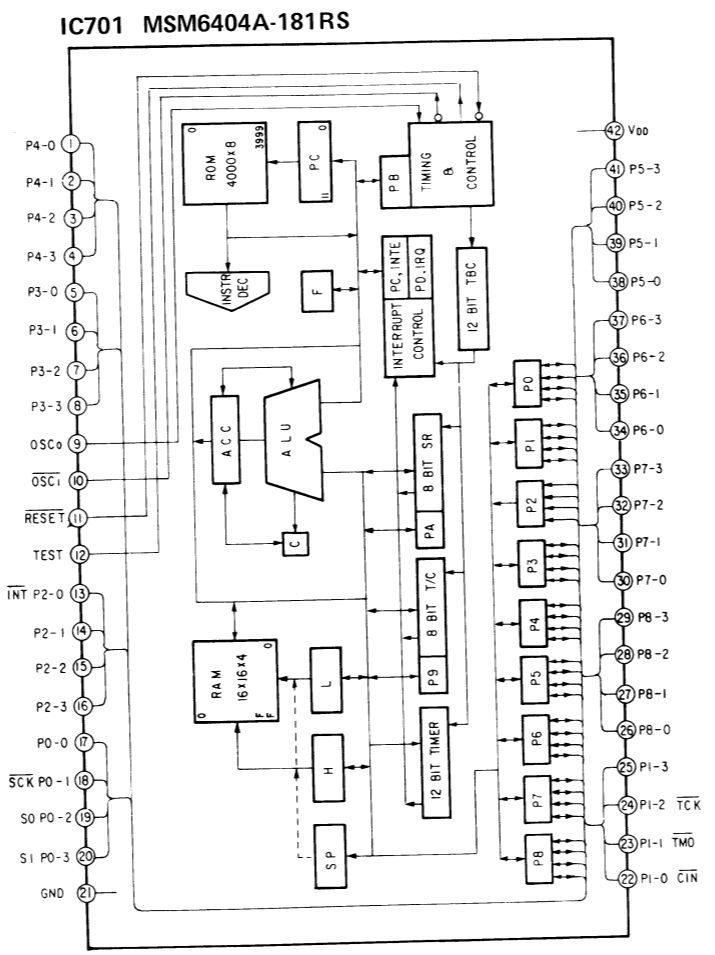
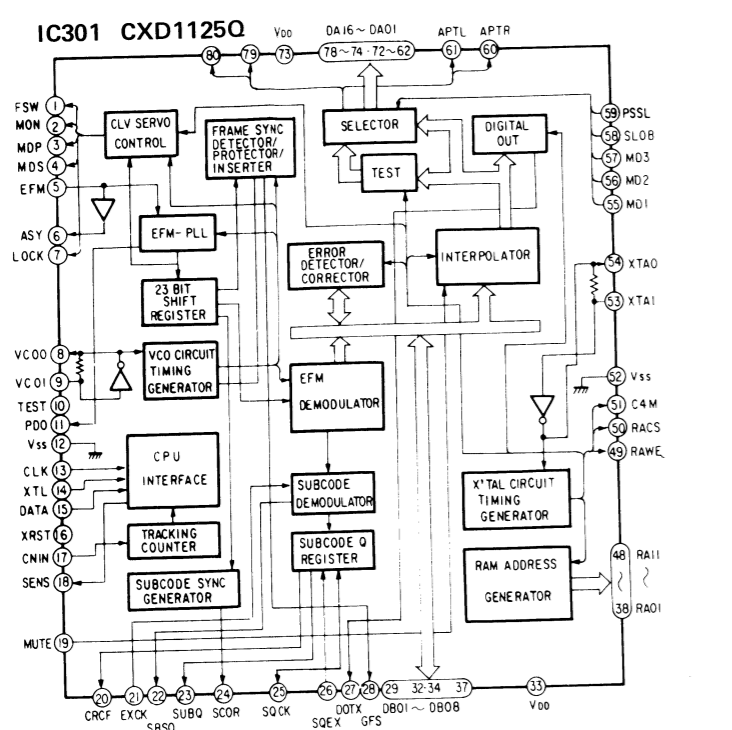
SECTION 4 EXPLODED VIEWS AND PARTS LIST

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.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

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



| Part No. | Description | Remarks | No. | Part No. | Description | Remarks |
|----------|---------------|----------------------------|-----|---------------|---|---------|
| 1 | 7-685-647-79 | SCREW +BVTP 3X10 TYPE2 N-S | 11 | 4-912-933-01 | ESCUTCHEON, LOADING PANEL | |
| 2 | 3-703-710-41 | STICKER, SONY SYMBOL (12) | 12 | *4-913-955-01 | DUMPER (D) | |
| 3 | 4-912-961-01 | PANEL, LOADING | 13 | *4-917-634-01 | DAMPER (C) | |
| 4 | 3-703-135-31 | SCREW, TAPPING | 14 | 1-463-817-11 | REMOTE COMMANDER (RM-D350A) | |
| 5 | 4-912-939-01 | CASE | 15 | 4-917-494-01 | LID, BATTERY CASE | |
| 6 | 3-703-473-11 | SCREW, TERMINAL | 16 | *4-885-838-00 | (222)...LABEL, CLASS 1 | |
| 7 | *4-912-931-01 | COVER, POWER | 17 | *3-701-030-00 | LABEL, SERIAL NUMBER | |
| 8 | *4-912-910-01 | LABEL (ENGLISH), CAUTION | 18 | 3-703-680-00 | (505:US,910)...LABEL, CAUTION SUB, NEW UL | |
| 9 | 4-912-919-01 | FOOT | 19 | 3-703-079-21 | (UK)...LABEL, CAUTION (BACK) | |
| 0 | *4-912-912-21 | PLATE, BOTTOM | | | | |

SECTION 4

EXPLODED VIEWS AND PARTS LIST

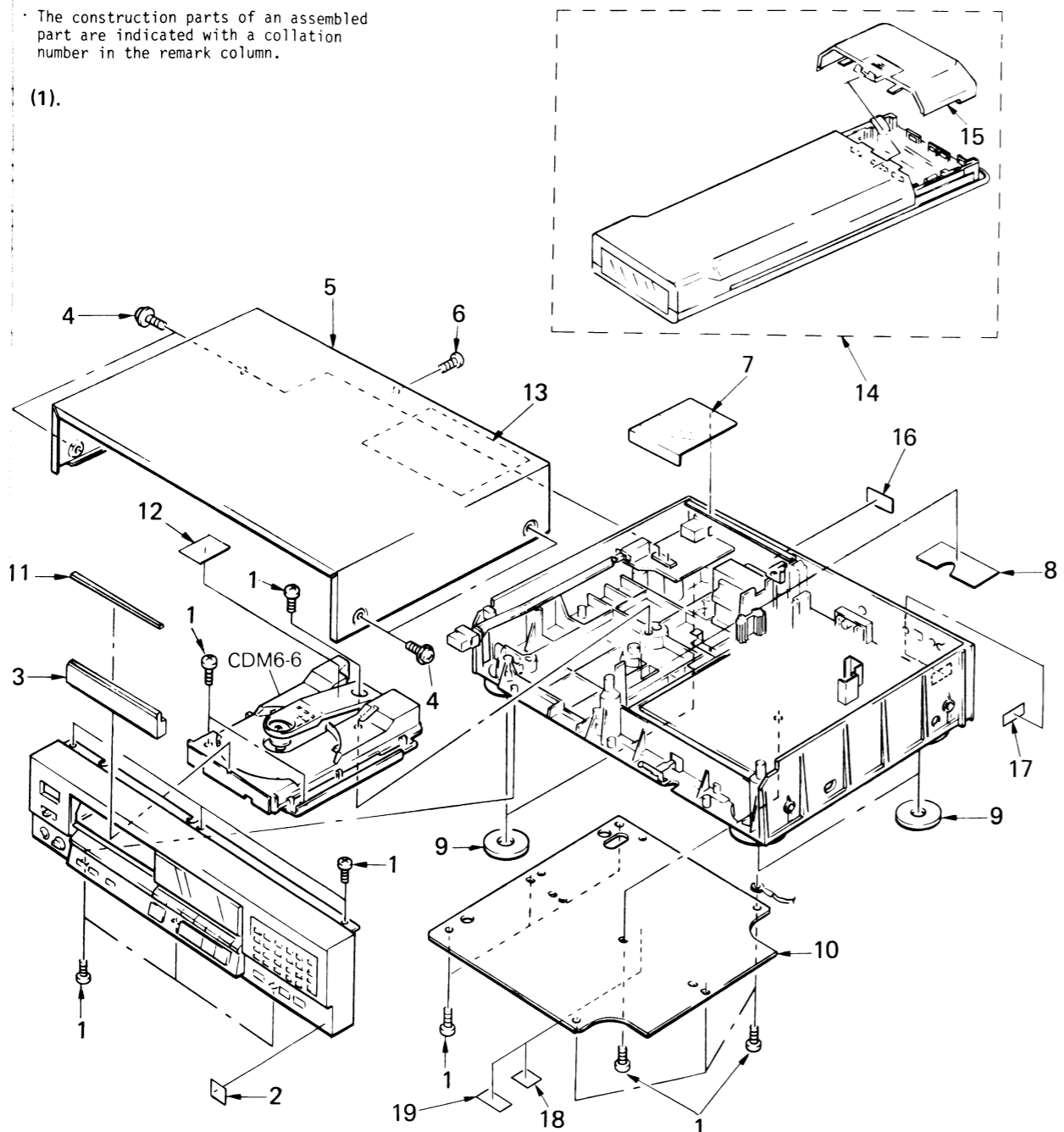
NOTE:

- 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.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

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

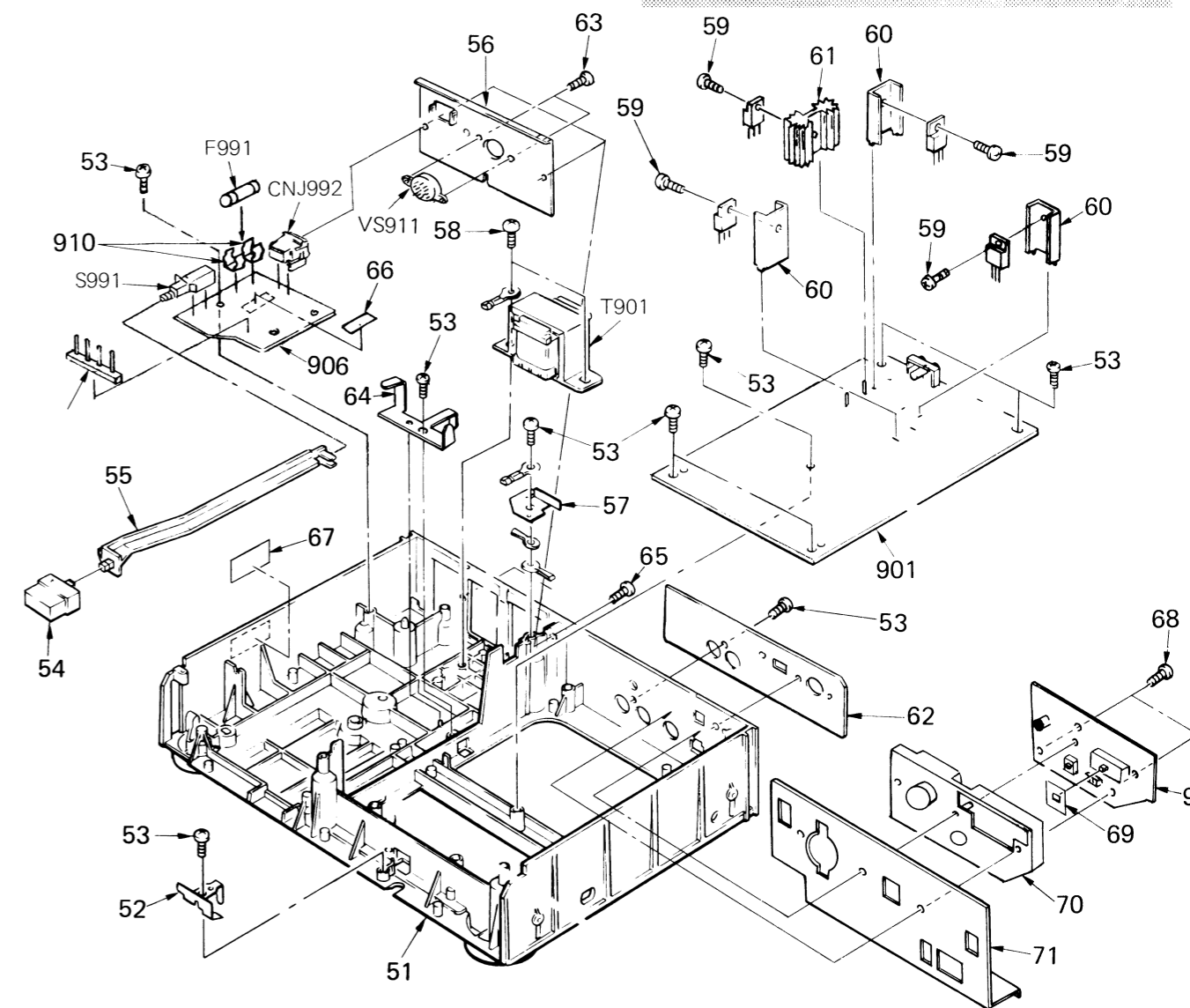
(1).



| No. | Part No. | Description | Remarks |
|-----|---------------|----------------------------|---------|
| 1 | 7-685-647-79 | SCREW +BVTP 3X10 TYPE2 N-S | |
| 2 | 3-703-710-41 | STICKER, SONY SYMBOL (12) | |
| 3 | 4-912-961-01 | PANEL, LOADING | |
| 4 | 3-703-135-31 | SCREW, TAPPING | |
| 5 | 4-912-939-01 | CASE | |
| 6 | 3-703-473-11 | SCREW, TERMINAL | |
| 7 | *4-912-931-01 | COVER, POWER | |
| 8 | *4-912-910-01 | LABEL (ENGLISH), CAUTION | |
| 9 | 4-912-919-01 | FOOT | |
| 10 | *4-912-912-21 | PLATE, BOTTOM | |

| No. | Part No. | Description | Remarks |
|-----|---------------|---|---------|
| 11 | 4-912-933-01 | ESCUTCHEON, LOADING PANEL | |
| 12 | *4-913-955-01 | DUMPER (D) | |
| 13 | *4-917-634-01 | DAMPER (C) | |
| 14 | 1-463-817-11 | REMOTE COMMANDER (RM-D350A) | |
| 15 | 4-917-494-01 | LID, BATTERY CASE | |
| 16 | *4-885-838-00 | (222)...LABEL, CLASS 1 | |
| 17 | *3-701-030-00 | LABEL, SERIAL NUMBER | |
| 18 | 3-703-680-00 | (505:US,910)...LABEL, CAUTION SUB, NEW UL | |
| 19 | 3-703-079-21 | (UK)...LABEL, CAUTION (BACK) | |

(2).



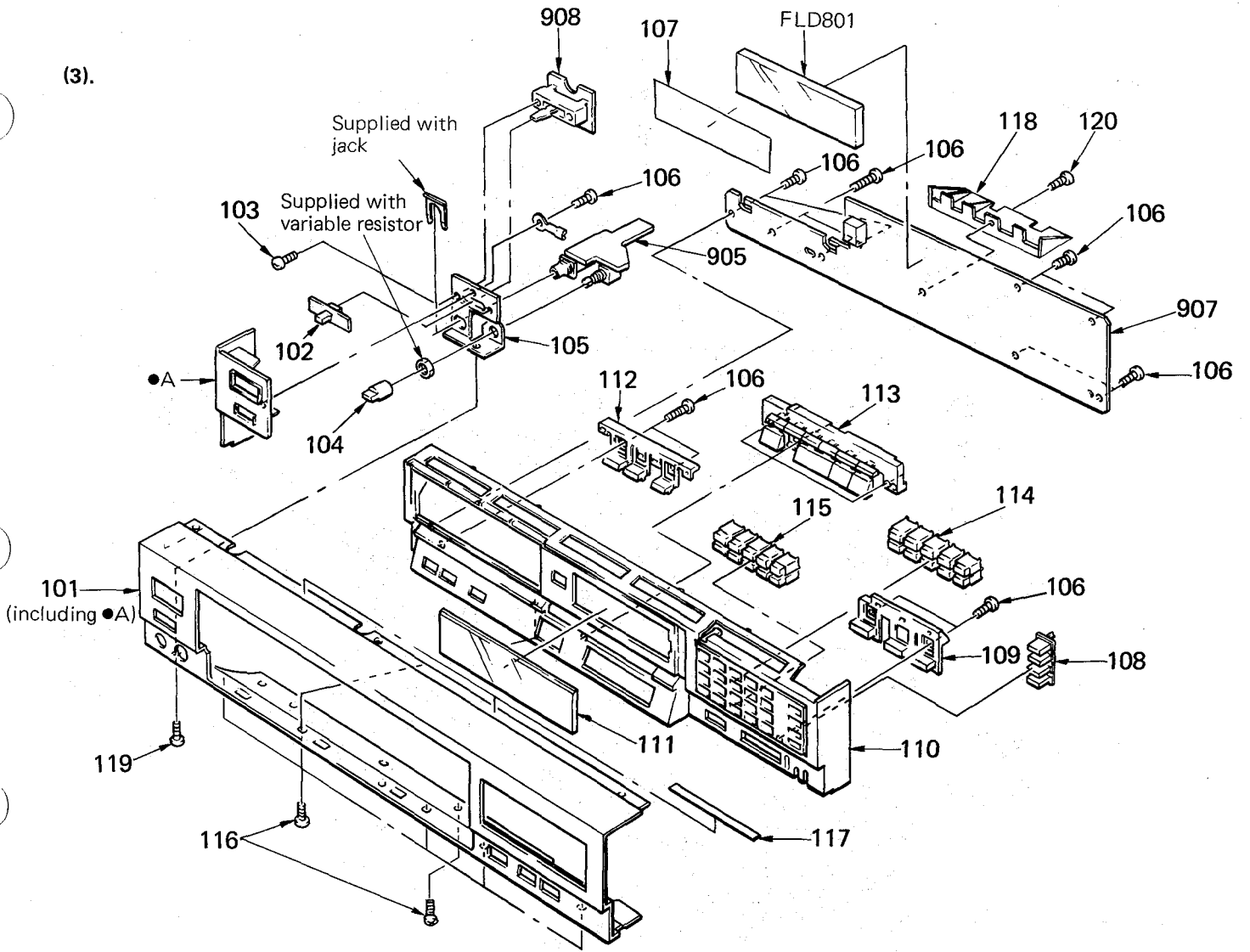
| No. | Part No. | Description | Remarks |
|-----|---------------|--|---------|
| 51 | 4-912-938-01 | CHASSIS | |
| 52 | *4-912-925-01 | PLATE (C), GROUND | |
| 53 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S | |
| 54 | 4-917-460-01 | KNOB, POWER | |
| 55 | *4-911-063-01 | LEVER, POWER SWITCH | |
| 56 | *4-912-913-11 | (910)...PLATE, JACK | |
| | *4-912-913-21 | (505:US)...PLATE, JACK | |
| | *4-912-913-31 | (Canadian)...PLATE, JACK | |
| | *4-912-913-41 | (UK)...PLATE, JACK | |
| | *4-912-913-51 | (AEP)...PLATE, JACK | |
| | *4-912-913-61 | (E)...PLATE, JACK | |
| 57 | *4-912-924-01 | PLATE (B), GROUND | |
| 58 | 7-685-660-11 | SCREW +BVTP 4X10 TYPE2 N-S | |
| 59 | 2-259-121-00 | SCREW, TR | |
| 60 | *4-902-345-01 | HEAT SINK | |
| 61 | *4-908-502-01 | HEAT SINK | |
| 62 | *4-912-930-01 | (EXCEPT 910)...PLATE, ORNAMENTAL, JACK | |
| | 4-912-930-51 | (910)...PLATE, ORNAMENTAL, JACK | |
| 63 | 7-682-547-09 | (E)...SCREW +B 3X6 | |
| 64 | *4-912-923-01 | PLATE (A), GROUND | |
| 65 | 7-685-872-09 | SCREW +BVTP 3X8 (S) | |
| 66 | *3-701-948-14 | (222)...LABEL, FUSE | |

| No. | Part No. | Description | Remarks |
|-------|------------------------|--|---------|
| 67 | 4-885-843-02 | (222)...LABEL, CAUTION, LASER | |
| 68 | 7-685-534-11 | SCREW +BTP 2.6X8 TYPE2 N-S | |
| 69 | *4-912-946-01 | (EXCEPT 910)...COVER, SWITCH | |
| 70 | *4-912-940-01 | (EXCEPT 910)...ESCUTCHEON, D/O | |
| 71 | *4-912-964-01 | (EXCEPT 910)...PLATE, SHIELD | |
| 901 | *A-4651-130-A | (505)...MOUNTED PCB, MAIN | |
| | *A-4651-131-A | (910)...MOUNTED PCB, MAIN | |
| | *A-4651-132-A | (222)...MOUNTED PCB, MAIN | |
| 902 | *1-535-137-00 | BASE POST 14MM (10MM PITCH) | |
| 906 | *1-622-278-11 | PC BOARD, POWER SW | |
| 909 | *1-622-279-11 | (EXCEPT 910)...PC BOARD, D/O | |
| 910 | 1-533-183-11 | (222)...HOLDER, FUSE | |
| F991 | A .1-532-078-00 | (222)...FUSE, TIME-LAG (1A) | |
| T901 | A .1-448-715-11 | (505,910)...TRANSFORMER, POWER | |
| | A .1-448-717-11 | (E)...TRANSFORMER, POWER | |
| | A .1-448-718-11 | (AEP,UK)...TRANSFORMER, POWER | |
| VS991 | A .1-526-576-41 | (E)...SELECTOR, POWER VOLTAGE (VOLTAGE SELECTOR) | |

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

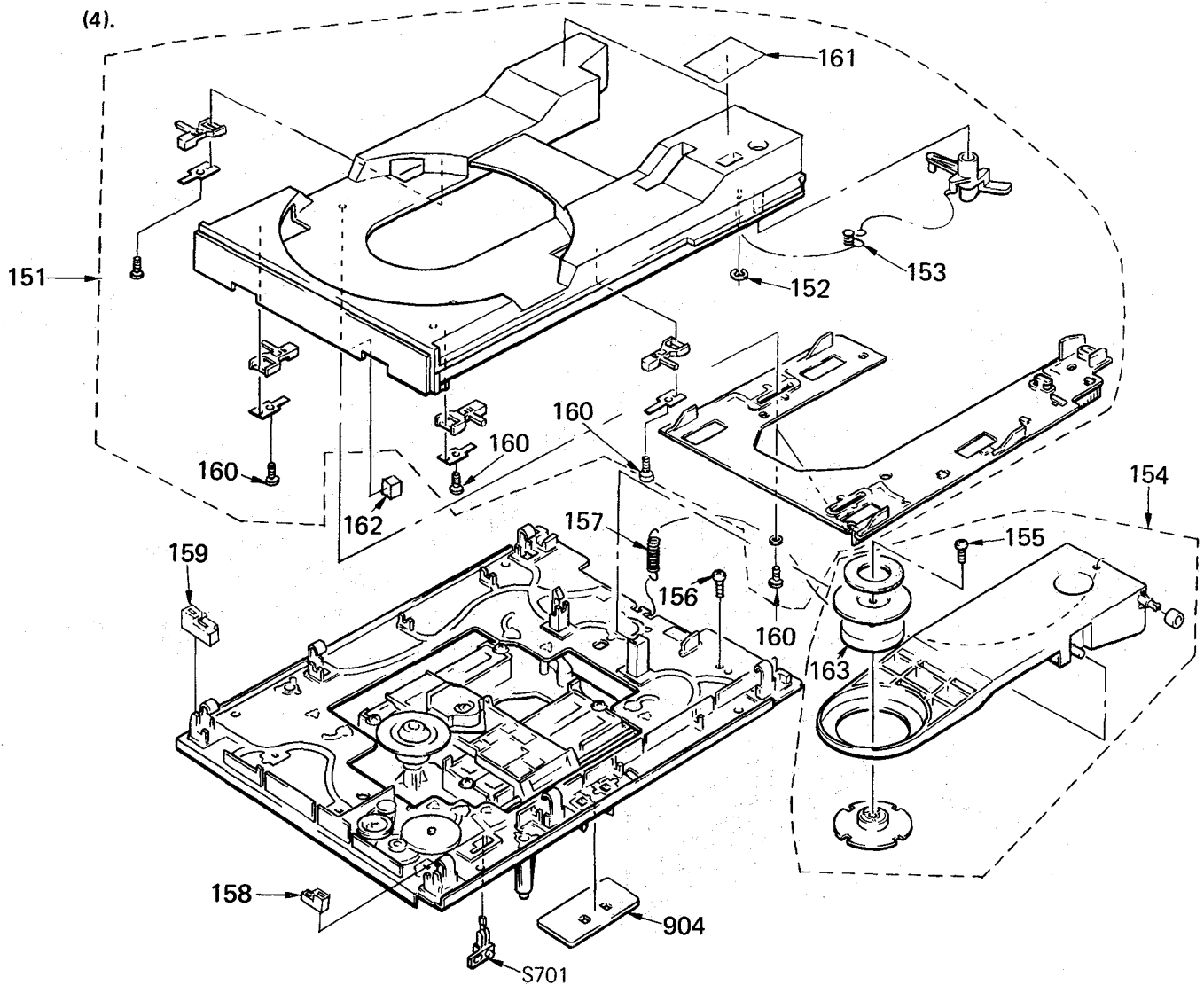
Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(3).



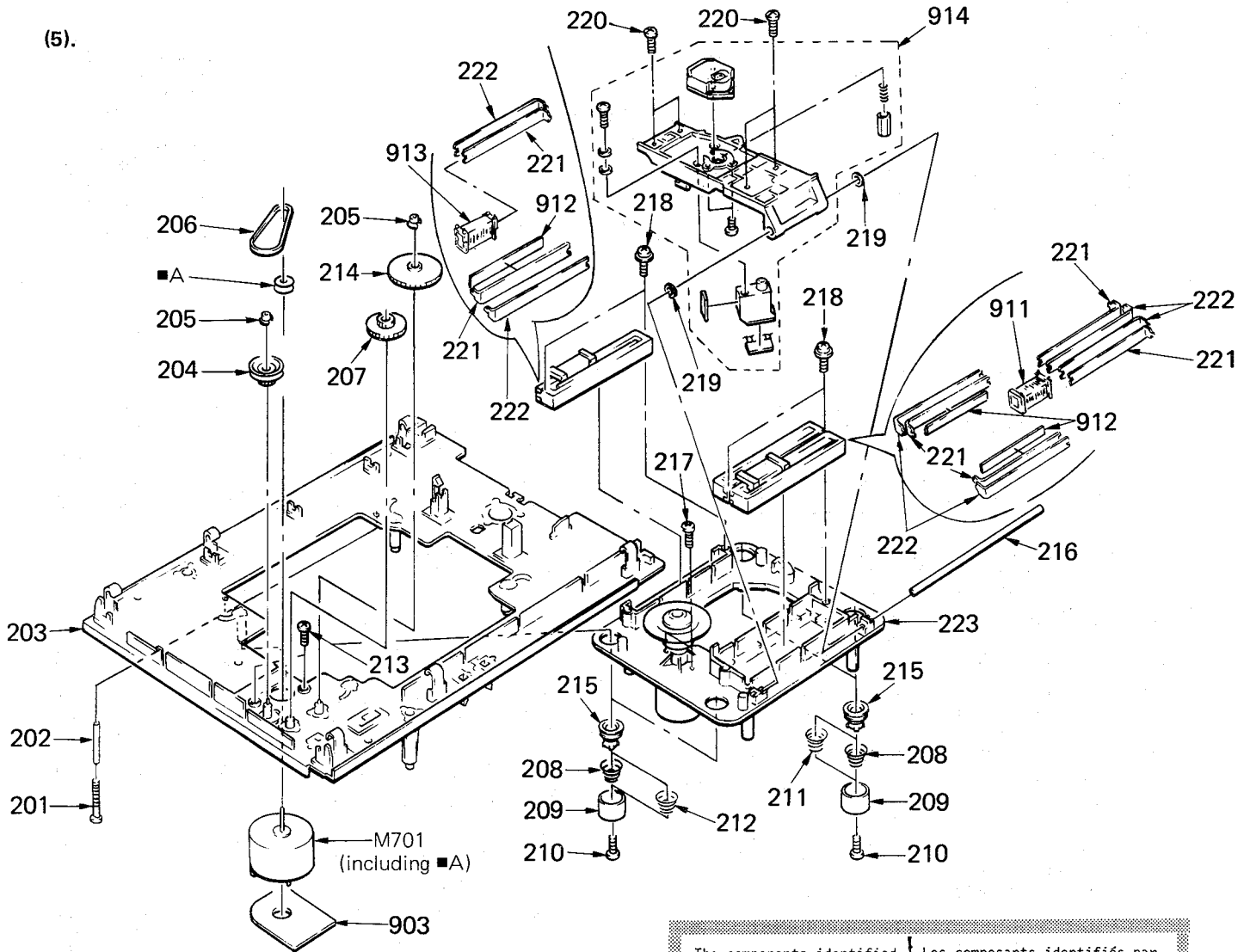
| No. | Part No. | Description | Remarks |
|-----|---------------|----------------------------|---------|
| 101 | X-4910-456-1 | PANEL ASSY, FRONT | |
| 102 | 3-575-515-41 | KNOB, SLIDE SWITCH | |
| 103 | 7-621-259-25 | SCREW +P 2.6X4 | |
| 104 | 4-901-708-11 | KNOB, LOV | |
| 105 | *4-912-922-01 | BRACKET, HEADPHONE | |
| 106 | 7-685-534-11 | SCREW +BTP 2.6X8 TYPE2 N-S | |
| 107 | *4-912-926-01 | PLATE (B), INDICATION | |
| 108 | 4-912-921-01 | BUTTON, 4 GANG | |
| 109 | 4-912-916-01 | BUTTON (C), CONTROL | |
| 110 | 4-912-937-01 | (910).....PANEL, SUB | |
| | 4-912-937-11 | (EXCEPT 910)...PANEL, SUB | |

| No. | Part No. | Description | Remarks |
|--------|---------------|-----------------------------|---------|
| 111 | 4-912-917-01 | PLATE, INDICATION | |
| 112 | 4-912-915-01 | BUTTON (B), CONTROL | |
| 113 | X-4910-450-1 | BUTTON ASSY, CONTROL | |
| 114 | 4-912-934-01 | BUTTON, 10 GANG | |
| 115 | 4-912-934-11 | BUTTON, 10 GANG | |
| 116 | 7-685-647-79 | SCREW +BVTP 3X10 TYPE2 N-S | |
| 117 | *4-912-958-01 | CUSHION, PANEL | |
| 118 | *4-912-935-01 | STAY, PANEL | |
| 119 | 7-682-147-09 | SCREW +BVTT 3X6 (S) | |
| 120 | 7-685-535-11 | SCREW +BTP 2.6X10 TYPE2 N-S | |
| 905 | *1-620-674-11 | PC BOARD, HEADPHONE | |
| 907 | *1-620-676-11 | PC BOARD, DISPLAY | |
| 908 | *1-620-677-11 | PC BOARD, TIMER SW | |
| FLD801 | 1-519-411-11 | INDICATOR TUBE, FLUORESCENT | |



| No. | Part No. | Description | Remarks | No. | Part No. | Description | Remarks |
|-----|---------------|---------------------------------|---------|------|---------------|------------------------|---------|
| 151 | A-4665-013-A | TABLE ASSY, DISK | | 159 | *4-918-612-01 | CUSHION (LEFT) | |
| 152 | 7-624-190-81 | STOP RING 2, TYPE-CS | | 160 | 7-685-103-19 | SCREW (2X5), + PWTP | |
| 153 | 4-917-552-01 | SPRING | | 161 | *4-913-955-01 | DUMPER (D) | |
| 154 | A-4681-006-B | ARM ASSY, CHUCKING | | 162 | *4-918-611-01 | CUSHION | |
| 155 | 7-685-790-04 | (FORMER)...SCREW +PTT 2.6X4 (S) | | 163 | 1-452-340-11 | MAGNET | |
| 156 | 7-621-259-55 | SCREW +BVTT 2.6X8 (S) | | 904 | *1-620-668-11 | PC BOARD, TRANSLATION | |
| 157 | 4-917-551-01 | SPRING (ARM), TENSION | | S701 | 1-570-203-11 | SWITCH, LEAF (LOADING) | |
| 158 | *4-918-613-01 | CUSHION (RIGHT) | | | | | |

(5).



The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

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

| No. | Part No. | Description | Remarks | No. | Part No. | Description | Remarks |
|-----|---------------|-----------------------------|---------|--------------|---------------|-------------------------|---------|
| 201 | 7-685-877-01 | SCREW +BVTT 3X20 (S) | | 216 | *4-917-579-01 | SHAFT, GUIDE | |
| 202 | *4-917-588-01 | COLLAR | | 217 | 7-621-255-10 | SCREW +B 2X3 | |
| 203 | 4-917-561-21 | CHASSIS (OUTSERT), LOADING | | 218 | *4-917-583-01 | BRACKET, YOKE | |
| 204 | 4-917-546-01 | PULLEY (A), LOADING | | 219 | *4-917-582-01 | CUSHION, SLIDE | |
| 205 | 4-910-418-01 | BUSHING (DIA. 4) | | 220 | 3-318-203-61 | SCREW (B1.7X4), TAPPING | |
| 206 | 4-917-548-01 | BELT, DRIVING | | 221 | *4-917-580-01 | YOKE (A) | |
| 207 | 4-910-402-01 | GEAR (2), LOADING | | 222 | *4-917-581-01 | YOKE (B) | |
| 208 | 4-917-572-01 | SPRING (B) | | 223 | X-4910-455-2 | MOTOR ASSY | |
| 209 | 4-917-508-01 | HOLDER, SP | | 903 | *1-620-667-11 | PC BOARD, LOADING MOTOR | |
| 210 | 7-685-535-19 | SCREW +BTP 2.6X10 TYPE2 N-S | | 911 | 1-422-301-11 | COIL (DRIVING) | |
| 211 | 4-917-571-01 | SPRING (A) | | 912 | *1-452-411-11 | MAGNET, LINEAR | |
| 212 | 4-917-573-01 | SPRING (E) | | 913 | 1-422-302-11 | COIL (DETECTION) | |
| 213 | 7-621-775-40 | SCREW +B 2.6X8 | | 914 A | 8-848-064-01 | PICKUP, OPTICS KSS-151A | |
| 214 | 4-917-550-01 | GEAR (A), LOADING | | M701 | A-4608-320-B | MOTOR ASSY, LOADING | |
| 215 | *4-917-584-11 | INSULATOR | | | | | |

SECTION 5 ELECTRICAL PARTS LIST

NOTE:

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μ F, PF: μ F.

RESISTORS

• All resistors are in ohms.

* F : nonflammable

COILS

• MMH : mH, UH : μ H

SEMICONDUCTORS

In each case, U : μ , for example:

UA... : μ A..., UPA... : μ PA..., UPC... : μ PC,

UPD... : μ PD...

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | | |
|---------|-----------------------|------------------------------|----------|-----|-----|--|
| 901 | *A-4651-130-A | (222)...MOUNTED PCB, MAIN | | | | |
| | *A-4651-131-A | (910)...MOUNTED PCB, MAIN | | | | |
| | *A-4651-132-A | (505)...MOUNTED PCB, MAIN | | | | |
| 902 | *1-535-137-00 | BASE POST 14MM (10MM PITCH) | | | | |
| 903 | *1-620-667-11 | PC BOARD, LOADING MOTOR | | | | |
| 904 | *1-620-668-11 | PC BOARD, TRANSLATION | | | | |
| 905 | *1-620-674-11 | PC BOARD, HEADPHONE | | | | |
| 906 | *1-622-278-11 | PC BOARD, POWER SW | | | | |
| 907 | *1-620-676-11 | PC BOARD, DISPLAY | | | | |
| 908 | *1-620-677-11 | PC BOARD, TIMER SW | | | | |
| 909 | *1-622-279-11 | (EXCEPT 910)...PC BOARD, D/O | | | | |
| 910 | 1-533-183-11 | (222)...HOLDER, FUSE | | | | |
| 911 | 1-422-301-11 | COIL (DRIVING) | | | | |
| 912 | *1-452-411-11 | MAGNET, LINEAR | | | | |
| 913 | 1-422-302-11 | COIL (DETECTION) | | | | |
| 914 | Δ 8-848-064-01 | PICKUP, OPTICS-KSS-151A | | | | |
| C101 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C102 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C103 | 1-162-198-31 | CERAMIC | 8.2PF | 10% | 50V | |
| C104 | 1-130-475-00 | MYLAR | 0.0022MF | 5% | 50V | |
| C105 | 1-130-489-00 | MYLAR | 0.033MF | 5% | 50V | |
| C106 | 1-130-489-00 | MYLAR | 0.033MF | 5% | 50V | |
| C107 | 1-130-483-00 | MYLAR | 0.01MF | 5% | 50V | |
| C108 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C109 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C110 | 1-130-483-00 | MYLAR | 0.01MF | 5% | 50V | |
| C111 | 1-126-043-11 | ELECT | 0.47MF | 20% | 50V | |
| C112 | 1-162-199-31 | CERAMIC | 10PF | 5% | 50V | |
| C113 | 1-162-199-31 | CERAMIC | 10PF | 5% | 50V | |
| C114 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V | |
| C115 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V | |
| C201 | 1-130-768-00 | FILM | 0.1MF | 10% | 63V | |
| C202 | 1-130-489-00 | MYLAR | 0.033MF | 5% | 50V | |
| C203 | 1-131-368-00 | TANTALUM | 3.3MF | 10% | 16V | |
| C204 | 1-130-768-00 | FILM | 0.1MF | 10% | 63V | |
| C205 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C206 | 1-124-905-11 | ELECT | 3.3MF | 20% | 50V | |
| C207 | 1-124-908-11 | ELECT | 22MF | 20% | 25V | |
| C210 | 1-130-485-00 | MYLAR | 0.015MF | 5% | 50V | |
| C211 | 1-130-491-00 | MYLAR | 0.047MF | 5% | 50V | |
| C212 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C213 | 1-126-044-11 | ELECT | 1MF | 20% | 50V | |
| C214 | 1-124-045-00 | ELECT | 4.7MF | 20% | 50V | |
| C215 | 1-130-479-00 | MYLAR | 0.0047MF | 5% | 50V | |
| C216 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C217 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V | |

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | | |
|---------|--------------|-----------------------|----------|-----|------|--|
| C218 | 1-126-043-11 | ELECT | 0.47MF | 20% | 50V | |
| C219 | 1-130-475-00 | MYLAR | 0.0022MF | 5% | 50V | |
| C220 | 1-130-475-00 | MYLAR | 0.0022MF | 5% | 50V | |
| C221 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C224 | 1-124-908-11 | ELECT | 22MF | 20% | 25V | |
| C225 | 1-126-009-11 | ELECT | 100MF | 20% | 16V | |
| C226 | 1-126-009-11 | ELECT | 100MF | 20% | 16V | |
| C227 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C228 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C229 | 1-130-489-00 | MYLAR | 0.033MF | 5% | 50V | |
| C230 | 1-161-063-00 | CERAMIC | 0.1MF | 20% | 16V | |
| C231 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C232 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | |
| C261 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V | |
| C262 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V | |
| C263 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C264 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C301 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C302 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C303 | 1-162-203-31 | CERAMIC | 15PF | 5% | 50V | |
| C304 | 1-162-203-31 | CERAMIC | 15PF | 5% | 50V | |
| C305 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C306 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C307 | 1-126-008-11 | ELECT | 47MF | 20% | 16V | |
| C309 | 1-161-063-00 | CERAMIC | 0.1MF | 20% | 16V | |
| C311 | 1-161-494-00 | CERAMIC | 0.022MF | 25V | | |
| C312 | 1-161-063-00 | CERAMIC | 0.1MF | 20% | 16V | |
| C351 | 1-161-063-00 | (EXCEPT 910)..CERAMIC | 0.1MF | 20% | 16V | |
| C352 | 1-161-063-00 | (EXCEPT 910)..CERAMIC | 0.1MF | 20% | 16V | |
| C353 | 1-130-768-00 | (EXCEPT 910)..FILM | 0.1MF | 10% | 63V | |
| C354 | 1-162-179-11 | (EXCEPT 910)..CERAMIC | 0.1MF | 50V | | |
| C355 | 1-162-179-11 | (EXCEPT 910)..CERAMIC | 0.1MF | 50V | | |
| C356 | 1-162-179-11 | (EXCEPT 910)..CERAMIC | 0.1MF | 50V | | |
| C357 | 1-162-282-31 | (EXCEPT 910)..CERAMIC | 100PF | 10% | 50V | |
| C401 | 1-136-253-11 | FILM | 0.0018MF | 3% | 100V | |
| C402 | 1-130-970-51 | FILM | 0.013MF | 3% | 100V | |
| C403 | 1-136-232-11 | FILM | 0.0043MF | 3% | 100V | |
| C404 | 1-136-254-11 | FILM | 0.002MF | 3% | 100V | |
| C405 | 1-136-227-11 | FILM | 0.0011MF | 3% | 100V | |
| C406 | 1-126-049-11 | ELECT | 22MF | 20% | 50V | |
| C407 | 1-130-768-00 | FILM | 0.1MF | 10% | 63V | |
| C408 | 1-130-768-00 | FILM | 0.1MF | 10% | 63V | |
| C409 | 1-130-768-00 | FILM | 0.1MF | 10% | 63V | |
| C410 | 1-130-768-00 | FILM | 0.1MF | 10% | 63V | |
| C411 | 1-130-768-00 | FILM | 0.1MF | 10% | 63V | |

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---------|--------------|--------------------------------|----------|-----|------|
| C412 | 1-130-768-00 | FILM | 0.1MF | 10% | 63V |
| C413 | 1-130-768-00 | FILM | 0.1MF | 10% | 63V |
| C414 | 1-162-291-31 | CERAMIC | 560PF | 10% | 50V |
| C415 | 1-162-291-31 | CERAMIC | 560PF | 10% | 50V |
| C416 | 1-126-024-11 | ELECT | 220MF | 20% | 25V |
| C417 | 1-126-024-11 | ELECT | 220MF | 20% | 25V |
| C420 | 1-162-290-31 | CERAMIC | 470PF | 10% | 50V |
| C423 | 1-161-063-00 | CERAMIC | 0.1MF | 20% | 16V |
| C424 | 1-161-063-00 | CERAMIC | 0.1MF | 20% | 16V |
| C425 | 1-161-063-00 | CERAMIC | 0.1MF | 20% | 16V |
| C426 | 1-161-063-00 | CERAMIC | 0.1MF | 20% | 16V |
| C451 | 1-123-821-00 | ELECT | 47MF | 20% | 16V |
| C452 | 1-161-063-00 | CERAMIC | 0.1MF | 20% | 16V |
| C453 | 1-162-290-31 | (222)...CERAMIC | 470PF | 10% | 50V |
| C501 | 1-136-253-11 | FILM | 0.0018MF | 3% | 100V |
| C502 | 1-130-970-51 | FILM | 0.013MF | 3% | 100V |
| C503 | 1-136-232-11 | FILM | 0.0043MF | 3% | 100V |
| C504 | 1-136-254-11 | FILM | 0.002MF | 3% | 100V |
| C505 | 1-136-227-11 | FILM | 0.0011MF | 3% | 100V |
| C506 | 1-126-049-11 | ELECT | 22MF | 20% | 50V |
| C507 | 1-130-768-00 | FILM | 0.1MF | 10% | 63V |
| C508 | 1-130-768-00 | FILM | 0.1MF | 10% | 63V |
| C509 | 1-130-768-00 | FILM | 0.1MF | 10% | 63V |
| C510 | 1-130-768-00 | FILM | 0.1MF | 10% | 63V |
| C511 | 1-130-768-00 | (910,505)...CAP,METALIZED FILM | 0.1MF | | |
| C512 | 1-130-768-00 | FILM | 0.1MF | 10% | 63V |
| C513 | 1-130-768-00 | FILM | 0.1MF | 10% | 63V |
| C551 | 1-123-821-00 | ELECT | 47MF | 20% | 16V |
| C553 | 1-162-290-31 | (222)...CERAMIC | 470PF | 10% | 50V |
| C701 | 1-126-008-11 | ELECT | 47MF | 20% | 16V |
| C705 | 1-126-008-11 | ELECT | 47MF | 20% | 16V |
| C706 | 1-126-008-11 | ELECT | 47MF | 20% | 16V |
| C707 | 1-130-768-00 | FILM | 0.1MF | 10% | 63V |
| C708 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V |
| C709 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V |
| C710 | 1-130-776-00 | FILM | 0.47MF | 5% | 63V |
| C801 | 1-162-207-31 | CERAMIC | 22PF | 5% | 50V |
| C802 | 1-162-207-31 | CERAMIC | 22PF | 5% | 50V |
| C803 | 1-124-225-00 | ELECT | 100MF | 20% | 6.3V |
| C804 | 1-162-179-11 | CERAMIC | 0.1MF | | 50V |
| C901 | 1-126-017-11 | ELECT | 6800MF | 20% | 16V |
| C902 | 1-126-017-11 | ELECT | 6800MF | 20% | 16V |
| C903 | 1-124-762-00 | ELECT | 4700MF | 20% | 10V |
| C904 | 1-124-762-00 | ELECT | 4700MF | 20% | 10V |
| C905 | 1-126-048-11 | ELECT | 10MF | 20% | 50V |
| C906 | 1-126-048-11 | ELECT | 10MF | 20% | 50V |
| C907 | 1-126-012-11 | ELECT | 470MF | 20% | 16V |
| C908 | 1-124-636-00 | ELECT | 3300MF | 20% | 25V |
| C909 | 1-124-636-00 | ELECT | 3300MF | 20% | 25V |
| C910 | 1-123-377-00 | ELECT | 470MF | 20% | 63V |
| C911 | 1-123-377-00 | ELECT | 470MF | 20% | 63V |
| C912 | 1-126-052-11 | ELECT | 100MF | 20% | 50V |
| C913 | 1-214-725-00 | ELECT | 100MF | 20% | 50V |
| C914 | 1-124-912-11 | ELECT | 330MF | 20% | 50V |
| C915 | 1-130-789-00 | FILM | 1MF | 10% | 100V |
| C916 | 1-126-064-11 | ELECT | 220MF | 20% | 63V |
| C917 | 1-124-912-11 | ELECT | 330MF | 20% | 50V |

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---------|---------------|--|----------|-----|------|
| C918 | 1-161-063-00 | CERAMIC | 0.1MF | 20% | 16V |
| C919 | 1-161-063-00 | CERAMIC | 0.1MF | 20% | 16V |
| C920 | 1-124-702-11 | ELECT | 1000MF | 20% | 25V |
| C991 | 1-161-744-00 | CERAMIC | 0.01MF | | 400V |
| C992 | 1-161-742-00 | (505,910)...CAP,CERAMIC | 0.0022MF | | |
| C993 | 1-161-742-00 | (AEP,UK)...CERAMIC | 0.0022MF | 20% | 400V |
| C994 | 1-161-742-00 | (AEP,UK)...CERAMIC | 0.0022MF | 20% | 400V |
| C995 | 1-161-742-00 | (AEP,UK)...CERAMIC | 0.0022MF | 20% | 400V |
| C996 | 1-161-742-00 | (AEP,UK)...CERAMIC | 0.0022MF | 20% | 400V |
| CN101 | *1-564-720-11 | PIN, CONNECTOR (SMALL TYPE) | | | 4P |
| CN102 | *1-564-724-31 | PIN, CONNECTOR (SMALL TYPE) | | | 8P |
| CN201 | *1-564-724-11 | PIN, CONNECTOR (SMALL TYPE) | | | 8P |
| CNJ355 | 1-507-567-71 | JACK, PIN 1P (DIGITAL OUT) | | | |
| CNJ401 | 1-562-999-21 | (910).....JACK, PIN 2P (LINE OUT) | | | |
| CNJ401 | 1-563-560-11 | (EXCEPT 910)...JACK, PIN 2P (LINE OUT) | | | |
| CNJ451 | *1-564-509-11 | PLUG, CONNECTOR | | | 6P |
| CNJ992 | 1-526-929-11 | (E).....INLET, AC (AC IN) | | | |
| CNJ992 | 1-526-930-11 | (505,910)...INLET, AC (AC IN) | | | |
| CNJ992 | 1-526-931-11 | (AEP,UK)...INLET, AC (AC IN) | | | |
| CNP4 | *1-562-883-11 | SOCKET, CONNECTOR | | | 20P |
| CNP5 | *1-564-718-11 | PIN, CONNECTOR (SMALL TYPE) | | | 2P |
| CNP6 | *1-564-719-11 | PIN, CONNECTOR (SMALL TYPE) | | | 3P |
| CNP7 | *1-564-522-31 | PLUG, CONNECTOR | | | 7P |
| CNP101 | *1-564-706-11 | PIN, CONNECTOR (SMALL TYPE) | | | 4P |
| CNP102 | *1-564-710-11 | PIN, CONNECTOR (SMALL TYPE) | | | 8P |
| CNP201 | *1-564-710-11 | PIN, CONNECTOR (SMALL TYPE) | | | 8P |
| CNP202 | *1-564-507-11 | PLUG, CONNECTOR | | | 4P |
| CNP304 | *1-564-506-11 | PLUG, CONNECTOR | | | 3P |
| CNP305 | *1-564-508-11 | (EXCEPT 910)...PLUG, CONNECTOR | | | 5P |
| CNP356 | *1-564-520-11 | (EXCEPT 910)...PLUG, CONNECTOR | | | 5P |
| CNP402 | *1-564-506-11 | PLUG, CONNECTOR | | | 3P |
| CNP403 | *1-564-506-11 | PLUG, CONNECTOR | | | 3P |
| CNP801 | *1-564-340-00 | PIN, CONNECTOR | | | 6P |
| CNP802 | *1-564-342-11 | PIN, CONNECTOR | | | 8P |
| CNP803 | *1-564-496-11 | PIN, CONNECTOR | | | 3P |
| CP451 | 1-233-080-11 | COMPOSITION CIRCUIT BLOCK | | | |
| CP551 | 1-233-080-11 | COMPOSITION CIRCUIT BLOCK | | | |
| CP801 | 1-233-081-11 | COMPOSITION CIRCUIT BLOCK | | | |
| CP802 | 1-232-995-11 | COMPOSITION CIRCUIT BLOCK | | | |
| D101 | 8-719-107-94 | DIODE 1SS202-1 | | | |
| D301 | 8-719-107-94 | DIODE 1SS202-1 | | | |
| D901 | 8-719-937-50 | DIODE DFO2M | | | |
| D902 | 8-719-937-49 | DIODE RDF02M | | | |
| D903 | 8-719-107-94 | DIODE 1SS202-1 | | | |
| D904 | 8-719-107-94 | DIODE 1SS202-1 | | | |
| D905 | 8-719-107-94 | DIODE 1SS202-1 | | | |
| D906 | 8-719-107-94 | DIODE 1SS202-1 | | | |
| D907 | 8-719-107-94 | DIODE 1SS202-1 | | | |
| D908 | 8-719-908-03 | DIODE GP08D | | | |
| D909 | 8-719-908-03 | DIODE GP08D | | | |
| D910 | 8-719-934-26 | DIODE HZS33-2L | | | |
| D911 | 8-719-933-57 | DIODE HZS9B2L | | | |
| D912 | 8-719-928-82 | DIODE HZS4.3NB3 | | | |
| D913 | 8-719-908-03 | DIODE GP08D | | | |
| D914 | 8-719-908-03 | DIODE GP08D | | | |
| F991 | 1-532-078-00 | (222)...FUSE, TIME-LAG (IA) | | | |

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ELECTRICAL PARTS

| Ref.No. | Part No. | Description |
|---------|--------------|-----------------------------------|
| FLD801 | 1-519-411-11 | INDICATOR TUBE, FLUORESCENT |
| IC101 | 8-752-030-93 | IC CXA1081M |
| IC201 | 8-752-031-65 | IC CXA1082AQ |
| IC202 | 8-759-303-90 | IC STA341M |
| IC204 | 8-759-600-02 | IC M5218L |
| IC210 | 8-759-009-07 | IC MC14053BF |
| IC301 | 8-752-322-04 | IC CXD1125Q |
| IC302 | 8-759-802-74 | IC LC3516AML-15 |
| IC303 | 8-759-939-35 | IC CXD1088Q |
| IC304 | 8-759-939-94 | IC TDA1541-N5 |
| IC305 | 8-759-804-47 | IC LC6523H-3270 |
| IC306 | 8-759-202-12 | IC TC74HC02P |
| IC357 | 8-759-202-13 | (EXCEPT 910)...IC TC74HCU04P |
| IC401 | 8-759-900-72 | IC NE5532P |
| IC451 | 8-759-700-40 | IC NJM4560S |
| IC501 | 8-759-900-72 | IC NE5532P |
| IC701 | 8-759-940-64 | IC MSM6404A-181RS |
| IC703 | 8-759-803-42 | IC LA6500-FA |
| IC801 | 8-752-802-24 | IC CXP5016H-206S |
| IC802 | 8-741-138-70 | IC BX-1387 |
| IC901 | 8-759-604-29 | IC 5F7805 |
| IC902 | 8-759-604-47 | IC 5F7905 |
| IC903 | 8-759-604-34 | IC 5F7815 |
| IC904 | 8-759-604-46 | IC 5F79M15 |
| IC905 | 8-759-604-29 | IC 5F7805 |
| IC906 | 8-759-604-47 | IC 5F7905 |
| IC907 | 8-759-604-29 | IC 5F7805 |
| J451 | 1-563-727-11 | JACK, LARGE TYPE (HEADPHONES) |
| L351 | 1-421-946-11 | (EXCEPT 910)...TRANSFORMER, PULSE |
| L991 | 1-421-960-11 | TRANSFORMER, LINE FILTER |
| M701 | A-4608-320-B | MOTOR ASSY, LOADING |
| PS201A | 1-532-605-00 | (222)...LINK, IC |
| PS202A | 1-532-605-00 | (222)...LINK, IC |
| PS203A | 1-532-605-00 | (222)...LINK, IC |
| PS204A | 1-532-605-00 | (222)...LINK, IC |
| PS205A | 1-532-605-00 | (222)...LINK, IC |
| PS701A | 1-532-605-00 | (222)...LINK, IC |
| PS901A | 1-532-675-00 | (222)...LINK, IC |
| PS902A | 1-532-675-00 | (222)...LINK, IC |
| PS903A | 1-532-637-00 | (222)...LINK, IC |
| PS904A | 1-532-637-00 | (222)...LINK, IC |
| PS905A | 1-532-637-00 | (222)...LINK, IC |
| PS906A | 1-532-637-00 | (222)...LINK, IC |
| Q101 | 8-729-103-43 | TRANSISTOR 2SB734 |
| Q201 | 8-729-177-43 | TRANSISTOR 2SD774 |
| Q202 | 8-729-103-43 | TRANSISTOR 2SB734 |
| Q203 | 8-729-900-80 | TRANSISTOR DTC144ES |
| Q204 | 8-729-900-80 | TRANSISTOR DTC114ES |
| Q301 | 8-729-600-27 | TRANSISTOR 2SC634SP |
| Q401 | 8-729-107-99 | TRANSISTOR 2SC3622A-K |
| Q402 | 8-729-107-99 | TRANSISTOR 2SC3622A-K |
| Q501 | 8-729-107-99 | TRANSISTOR 2SC3622A-K |
| Q502 | 8-729-107-99 | TRANSISTOR 2SC3622A-K |
| Q703 | 8-729-900-61 | TRANSISTOR DTA114ES |
| Q704 | 8-729-900-61 | TRANSISTOR DTA114ES |

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---------|--------------|---------------------|------|----|------|
| Q705 | 8-729-900-61 | TRANSISTOR DTC114ES | | | |
| Q901 | 8-729-205-95 | TRANSISTOR 2SA1428Y | | | |
| R101 | 1-215-396-00 | CARBON | 91 | 5% | 1/6W |
| R102 | 1-214-092-00 | METAL | 22 | 1% | 1/4W |
| R103 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W |
| R104 | 1-215-450-00 | CARBON | 16K | 5% | 1/6W |
| R105 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/6W |
| R106 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/6W |
| R107 | 1-249-432-11 | CARBON | 18K | 5% | 1/6W |
| R108 | 1-249-432-11 | CARBON | 18K | 5% | 1/6W |
| R109 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R110 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R111 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W |
| R112 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W |
| R201 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R202 | 1-249-440-11 | CARBON | 82K | 5% | 1/6W |
| R205 | 1-249-431-11 | CARBON | 15K | 5% | 1/6W |
| R206 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R207 | 1-249-435-11 | CARBON | 33K | 5% | 1/6W |
| R208 | 1-249-435-11 | CARBON | 33K | 5% | 1/6W |
| R209 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R211 | 1-249-409-11 | CARBON | 220 | 5% | 1/6W |
| R212 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/6W |
| R213 | 1-215-489-00 | CARBON | 680K | 5% | 1/6W |
| R214 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R215 | 1-215-486-00 | CARBON | 510K | 5% | 1/6W |
| R216 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R217 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W |
| R218 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R219 | 1-215-471-00 | METAL | 120K | 1% | 1/6W |
| R220 | 1-215-434-00 | METAL | 3.6K | 1% | 1/6W |
| R221 | 1-215-493-00 | CARBON | 1M | 5% | 1/6W |
| R222 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W |
| R223 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R224 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W |
| R225 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W |
| R226 | 1-215-473-00 | CARBON | 150K | 5% | 1/6W |
| R227 | 1-215-445-00 | METAL | 10K | 1% | 1/6W |
| R228 | 1-215-445-00 | METAL | 10K | 1% | 1/6W |
| R229 | 1-215-486-00 | CARBON | 510K | 5% | 1/6W |
| R230 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R231 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W |
| R232 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W |
| R251 | 1-215-469-00 | METAL | 100K | 1% | 1/6W |
| R252 | 1-215-469-00 | METAL | 100K | 1% | 1/6W |
| R261 | 1-215-485-00 | CARBON | 470K | 5% | 1/6W |
| R262 | 1-215-485-00 | CARBON | 470K | 5% | 1/6W |
| R301 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R302 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R303 | 1-249-411-11 | CARBON | 330 | 5% | 1/6W |
| R304 | 1-249-411-11 | CARBON | 330 | 5% | 1/6W |
| R305 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R310 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R312 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W |
| R313 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W |
| R314 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W |

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ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---------|--------------|-----------------------|------|----|------|
| R316 | 1-249-411-11 | CARBON | 330 | 5% | 1/6W |
| R317 | 1-249-411-11 | CARBON | 330 | 5% | 1/6W |
| R318 | 1-249-411-11 | CARBON | 330 | 5% | 1/6W |
| R319 | 1-249-411-11 | CARBON | 330 | 5% | 1/6W |
| R320 | 1-249-411-11 | CARBON | 330 | 5% | 1/6W |
| R321 | 1-249-413-11 | CARBON | 470 | 5% | 1/6W |
| R322 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W |
| R323 | 1-249-819-11 | CARBON | 330 | 5% | 1/6W |
| R324 | 1-249-411-11 | CARBON | 330 | 5% | 1/6W |
| R325 | 1-249-411-11 | CARBON | 330 | 5% | 1/6W |
| R326 | 1-249-411-11 | CARBON | 330 | 5% | 1/6W |
| R327 | 1-249-411-11 | (EXCEPT 910)...CARBON | 330 | 5% | 1/6W |
| R328 | 1-249-411-11 | (EXCEPT 910)...CARBON | 330 | 5% | 1/6W |
| R329 | 1-249-411-11 | (EXCEPT 910)...CARBON | 330 | 5% | 1/6W |
| R330 | 1-249-411-11 | CARBON | 330 | 5% | 1/6W |
| R331 | 1-249-411-11 | CARBON | 330 | 5% | 1/6W |
| R357 | 1-215-394-00 | (EXCEPT 910)...CARBON | 75 | 5% | 1/6W |
| R358 | 1-249-417-11 | (EXCEPT 910)...CARBON | 1K | 5% | 1/6W |
| R359 | 1-249-405-11 | (EXCEPT 910)...CARBON | 100 | 5% | 1/6W |
| R401 | 1-249-930-11 | CARBON | 2K | 1% | 1/4W |
| R402 | 1-249-924-11 | CARBON | 1.1K | 1% | 1/4W |
| R403 | 1-246-545-00 | CARBON | 1M | 1% | 1/4W |
| R404 | 1-247-721-11 | CARBON | 4.7K | 1% | 1/4W |
| R405 | 1-247-717-11 | CARBON | 2.2K | 1% | 1/4W |
| R406 | 1-247-717-11 | CARBON | 2.2K | 1% | 1/4W |
| R407 | 1-249-983-11 | CARBON | 330K | 1% | 1/4W |
| R408 | 1-249-921-11 | CARBON | 820 | 1% | 1/4W |
| R409 | 1-247-713-11 | CARBON | 1K | 1% | 1/4W |
| R410 | 1-249-921-11 | CARBON | 820 | 1% | 1/4W |
| R411 | 1-249-469-11 | CARBON | 100K | 1% | 1/4W |
| R412 | 1-247-193-00 | CARBON | 22K | 1% | 1/4W |
| R413 | 1-247-700-11 | CARBON | 100 | 1% | 1/4W |
| R414 | 1-247-700-11 | CARBON | 100 | 1% | 1/4W |
| R415 | 1-249-469-11 | CARBON | 100K | 1% | 1/4W |
| R416 | 1-249-469-11 | CARBON | 100K | 1% | 1/4W |
| R452 | 1-247-713-11 | CARBON | 1K | | 1/4W |
| R455 | 1-247-700-11 | CARBON | 100 | | 1/4W |
| R501 | 1-249-930-11 | CARBON | 2K | 1% | 1/4W |
| R502 | 1-249-924-11 | CARBON | 1.1K | 1% | 1/4W |
| R503 | 1-246-545-00 | CARBON | 1M | 1% | 1/4W |
| R504 | 1-247-721-11 | CARBON | 4.7K | 1% | 1/4W |
| R505 | 1-247-717-11 | CARBON | 2.2K | 1% | 1/4W |
| R506 | 1-247-717-11 | CARBON | 2.2K | 1% | 1/4W |
| R507 | 1-249-983-11 | CARBON | 330K | 1% | 1/4W |
| R508 | 1-249-921-11 | CARBON | 820 | 1% | 1/4W |

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | |
|---------|--------------|------------------------------|---------|----|--------------------|
| R509 | 1-247-713-11 | CARBON | 1K | 1% | 1/4W |
| R510 | 1-249-921-11 | CARBON | 820 | 1% | 1/4W |
| R512 | 1-247-193-00 | CARBON | 22K | 1% | 1/4W |
| R552 | 1-247-713-11 | CARBON | 1K | | 1/4W |
| R555 | 1-247-700-11 | CARBON | 100 | | 1/4W |
| R703 | 1-249-440-11 | CARBON | 82K | 5% | 1/6W |
| R704 | 1-249-440-11 | CARBON | 82K | 5% | 1/6W |
| R705 | 1-215-468-00 | CARBON | 91K | 5% | 1/6W |
| R706 | 1-215-468-00 | CARBON | 91K | 5% | 1/6W |
| R707 | 1-249-385-11 | CARBON | 2.2 | 5% | 1/6W |
| R801 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R802 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R803 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R804 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R805 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R806 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R807 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R901 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W |
| R902 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W |
| R903 | 1-249-401-11 | CARBON | 47 | 5% | 1/6W |
| R904 | 1-212-966-11 | FUSIBLE | 22 | 5% | 1/2W F |
| R905 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W |
| R906 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W |
| R907 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W |
| R908 | 1-215-481-00 | CARBON | 330K | 5% | 1/6W |
| R909 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W |
| R910 | 1-212-966-11 | FUSIBLE | 22 | 5% | 1/2W F |
| R911 | 1-212-966-11 | FUSIBLE | 22 | 5% | 1/2W F |
| RV101 | 1-237-194-11 | RES, ADJ, CARBON | 20K | | |
| RV102 | 1-237-192-11 | RES, ADJ, CARBON | 5K | | |
| RV201 | 1-237-194-11 | RES, ADJ, CARBON | 20K | | |
| RV202 | 1-237-194-11 | RES, ADJ, CARBON | 20K | | |
| RV203 | 1-228-990-00 | RES, ADJ, METAL GLAZE | 1K | | |
| RV204 | 1-228-993-00 | RES, ADJ, METAL GLAZE | 4.7K | | |
| RV451 | 1-237-438-11 | RES, VAR, CARBON | 20K/20K | | (HEADPHONES LEVEL) |
| S351 | 1-554-481-00 | (EXCEPT 910)...SWITCH, SLIDE | | | (DIGITAL OUT) |
| S701 | 1-570-203-11 | SWITCH, LEAF (LOADING) | | | |
| S801 | 1-554-303-21 | SWITCH, KEY BOARD | (1) | | |
| S802 | 1-554-303-21 | SWITCH, KEY BOARD | (2) | | |
| S803 | 1-554-303-21 | SWITCH, KEY BOARD | (3) | | |
| S804 | 1-554-303-21 | SWITCH, KEY BOARD | (4) | | |
| S805 | 1-554-303-21 | SWITCH, KEY BOARD | (5) | | |
| S806 | 1-554-303-21 | SWITCH, KEY BOARD | (6) | | |

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ELECTRICAL PARTS

| Ref.No. | Part No. | Description |
|---------|----------------|---|
| S807 | 1-554-303-21 | SWITCH, KEY BOARD (7) |
| S808 | 1-554-303-21 | SWITCH, KEY BOARD (8) |
| S809 | 1-554-303-21 | SWITCH, KEY BOARD (9) |
| S810 | 1-554-303-21 | SWITCH, KEY BOARD (10) |
| S811 | 1-554-303-21 | SWITCH, KEY BOARD (11) |
| S812 | 1-554-303-21 | SWITCH, KEY BOARD (12) |
| S813 | 1-554-303-21 | SWITCH, KEY BOARD (13) |
| S814 | 1-554-303-21 | SWITCH, KEY BOARD (14) |
| S815 | 1-554-303-21 | SWITCH, KEY BOARD (15) |
| S816 | 1-554-303-21 | SWITCH, KEY BOARD (16) |
| S817 | 1-554-303-21 | SWITCH, KEY BOARD (17) |
| S818 | 1-554-303-21 | SWITCH, KEY BOARD (18) |
| S819 | 1-554-303-21 | SWITCH, KEY BOARD (19) |
| S820 | 1-554-303-21 | SWITCH, KEY BOARD (20) |
| S821 | 1-554-303-21 | SWITCH, KEY BOARD (+10) |
| S822 | 1-554-303-21 | SWITCH, KEY BOARD (0) |
| S823 | 1-554-303-21 | SWITCH, KEY BOARD (CHECK) |
| S824 | 1-554-303-21 | SWITCH, KEY BOARD (CLEAR) |
| S825 | 1-554-303-21 | SWITCH, KEY BOARD (AUTO SPACE) |
| S826 | 1-554-303-21 | SWITCH, KEY BOARD (PROGRAM) |
| S827 | 1-554-303-21 | SWITCH, KEY BOARD (SHUFFLE) |
| S828 | 1-554-303-21 | SWITCH, KEY BOARD (▶) |
| S829 | 1-554-303-21 | SWITCH, KEY BOARD (■) |
| S830 | 1-554-303-21 | SWITCH, KEY BOARD (■) |
| S831 | 1-554-303-21 | SWITCH, KEY BOARD (◀◀) |
| S832 | 1-554-303-21 | SWITCH, KEY BOARD (▶▶) |
| S833 | 1-554-303-21 | SWITCH, KEY BOARD (◀) |
| S834 | 1-554-303-21 | SWITCH, KEY BOARD (◀) |
| S835 | 1-554-303-21 | SWITCH, KEY BOARD (▶▶) |
| S836 | 1-554-303-21 | SWITCH, KEY BOARD (▶▶) |
| S837 | 1-554-303-21 | SWITCH, KEY BOARD (REPEAT 1/ALL) |
| S838 | 1-554-303-21 | SWITCH, KEY BOARD (CLEAR) |
| S839 | 1-554-303-21 | SWITCH, KEY BOARD (TIME/NEXT(PGM)) |
| S840 | 1-554-303-21 | SWITCH, KEY BOARD (▲) |
| S841 | 1-570-873-11 | SWITCH, SLIDE (TIMER) |
| S991 | 1-553-318-00 | SWITCH, PUSH (AC POWER)(1 KEY)(POWER) |
| T901 | ▲ 1-448-715-11 | (505,910)...TRANSFORMER, POWER |
| T901 | ▲ 1-448-717-11 | (E)...TRANSFORMER, POWER |
| T901 | ▲ 1-448-718-11 | (AEP,UK)...TRANSFORMER, POWER |
| TB901 | *1-535-121-00 | TERMINAL |
| X301 | 1-567-741-11 | VIBRATOR, CRYSTAL (16MHz) |
| X302 | 1-567-686-11 | OSCILLATOR, CERAMIC |
| X801 | 1-567-192-11 | OSCILLATOR, CERAMIC |
| VS991 | ▲ 1-526-576-41 | (E)...SELECTOR, POWER VOLTAGE (VOLTAGE SELECTOR) |

ACCESSORY & PACKING MATERIAL

| Part No. | Description |
|----------------|--------------------------------------|
| 1-526-565-00 | (E)...AC PLUG ADAPTOR |
| 1-558-787-11 | (910).....CORD, CONNECTION |
| 1-558-787-31 | (EXCEPT 910)...CORD, CONNECTION |
| ▲ 1-558-832-11 | (UK).....CORD, POWER |
| ▲ 1-558-833-11 | (E).....CORD, POWER |
| ▲ 1-558-834-11 | (505,910)...CORD, POWER |
| ▲ 1-558-835-11 | (AEP).....CORD, POWER |
| 3-536-825-00 | BAG, PROTECTING |
| 3-701-630-00 | BAG, POLYETHYLENE |
| 3-703-390-01 | (505:US,910)...INSTRUCTION |
| 3-795-629-11 | (AEP).....INSTRUCTION |
| 3-765-657-11 | (222).....MANUAL, INSTRUCTION |
| 3-765-657-21 | (505).....MANUAL, INSTRUCTION |
| 3-765-657-31 | (Canadian)...MANUAL, INSTRUCTION |
| 3-765-657-41 | (AEP).....MANUAL, INSTRUCTION |
| 3-765-925-21 | (910).....MANUAL, INSTRUCTION |
| 4-912-943-11 | (AEP,UK).....INDIVIDUAL CARTON |
| 4-912-943-21 | (505:US).....INDIVIDUAL CARTON |
| 4-912-943-31 | (Canadian)...INDIVIDUAL CARTON |
| 4-912-943-41 | (E).....INDIVIDUAL CARTON |
| 4-912-943-51 | (910).....INDIVIDUAL CARTON |
| 4-912-944-01 | CUSHION |
| *4-912-947-01 | (EXCEPT Canadian)...KEY, LOCK |
| 4-913-941-01 | HOLDER, COMMANDER |
| 4-858-078-00 | (EXCEPT E)...SHEET, PROTECTION |
| 7-632-650-74 | (EXCEPT E)...SHEET, PROTECTION 600MM |

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

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