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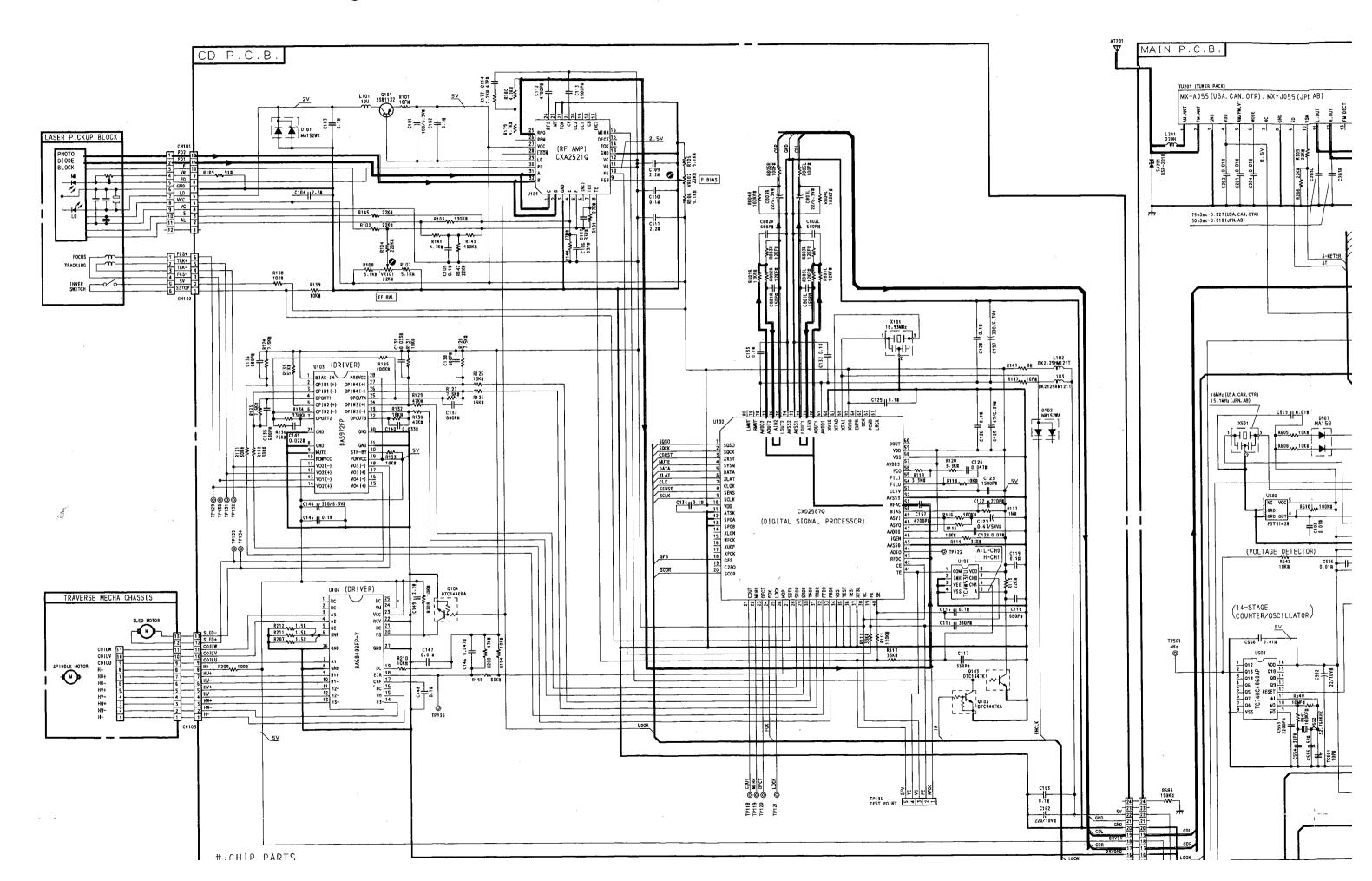


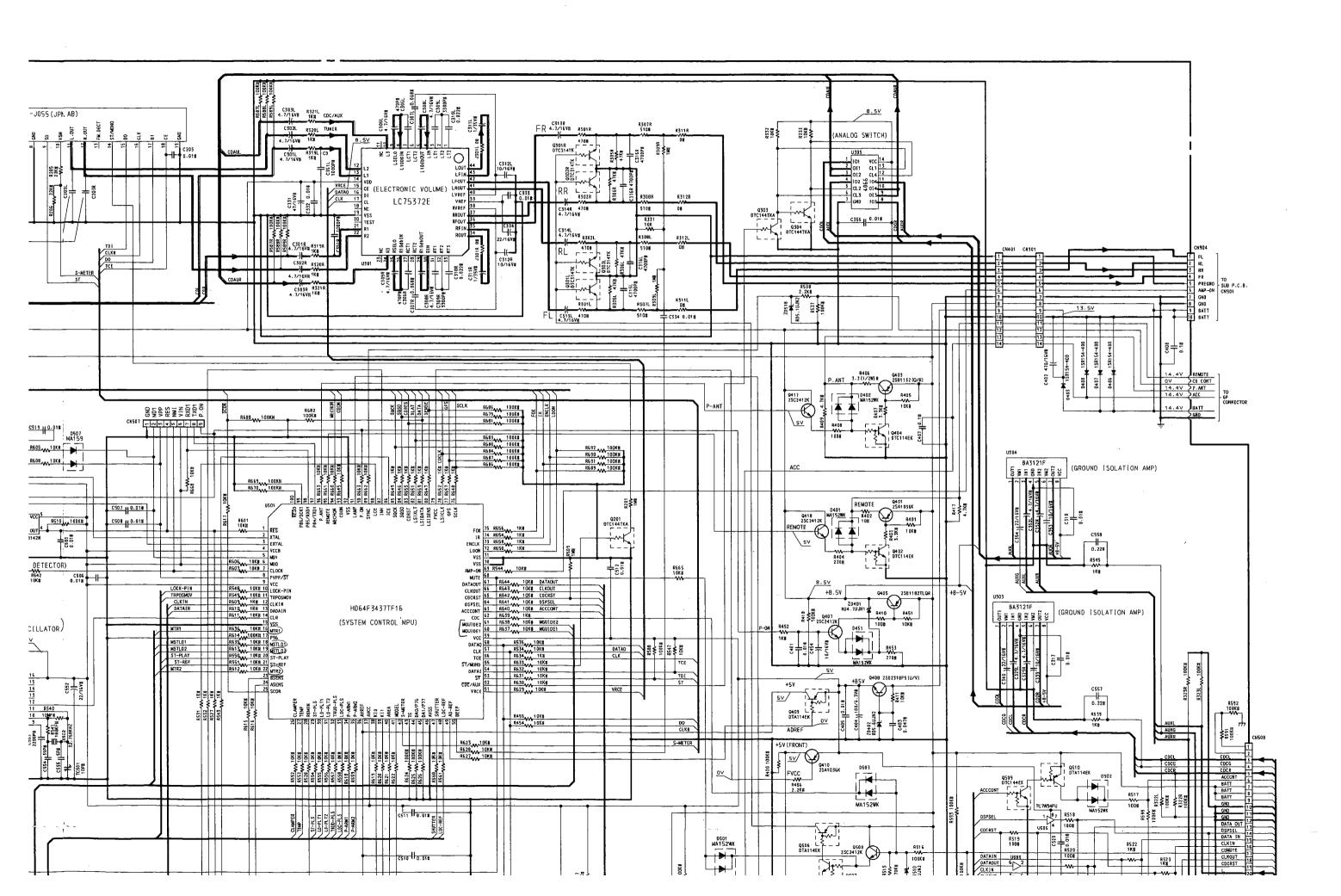
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2SB1182 2SD2318

■ Receiver / 6 Disc MusicBank CD Changer

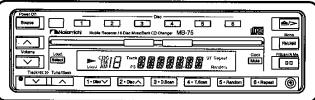




Service Manual

Mobile Receiver / 6 Disc Music-Bank CD Changer

MB-75







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GENERAL

1.1. Product Code V624

1.2. Destinations USA, CAN, JPN

Abbreviations for Destinations:

USA - U.S.A.

CAN - Canada

JPN - Japan

1.3. Cautions/Warnings

(1) Protection of Eyes from Laser Beam

To protect eyes from invisible laser beam during servicing, DO NOT LOOK AT THE LASER BEAM.

Laser Diode Properties

Material:

GaAs+GaAlAs

Laser output:

0.4mW Max. 760 - 800 nm

Wavelength:

Emission duration: Continuous

(2) Laser Caution

CAUTION

Adjusting the knobs, switches, and controls, etc. or taking actions not specified herein may result in a harmful emission of laser beams. This CD Changer must be adjusted and repaired only by qualified service personnel.

OBSERVERA!

Sådana inställningar av rattarna, omkopplarna eller övriga kontrollknappar som inte är beskriva i bruksanvisningen kan resultera i farlig laserutstrålning. Justering eller reparation av denna kompaktskivspelare skall endast utföras av kvalificerad servicepersonal.

OBSI

Indstilling af knapper, cmskiftere og øvrige kontrolknapper, som ikke følger den i brugsanvisningen beskrevne måde, kan resultere i farlig laserudstråling. Justering eller reparation af denno CD-afspiller må kun udføres af kvalificeret servicepersonale.

OBS!

Justering av ratt, brytere og kontroller andre enn de som er beskrevet her, kan resultere i farlig laserbestråling. Justering eller reparasjon av denne kompaktdiskspilleren ma bare utføres av kvalifiserte fagfolk.

HUOMAUTUS

Jos nuppeja, kytkimiä ja säätimiä ym, säädetään tai laitetta käytetään toisella tavalla kuin on selostettu, tuloksena saattaa olla vaarallista lasersäteiden vuotoa. CD-soittimen säätö ja korjaus on jätettävä aina asiantuntevan huoltoteknikon tehtäväksi.

ADVERSEL: USYNLIG LASERSTRÅLING VED ÅBNING, UNDGÅ UDSAETTELSE FOR STRÅLING.

VARO!:

AVATTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

ÄLÄ KATSO SÄTEESEEN.

VARNING — OSYNLIG LASERSTRÅLNING NAR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.



THIS COMPACT DISC PLAYER IS CLASSIFIED AS A CLASS 1 LASER PRODUCT. THE CLASS 1 LASER PRODUCT LABEL IS LOCATED ON THE REAR EXTERIOR.

1.4. Handling the Laser Pickup

In case of repair or replacement of the Laser Pickup, pay attention to the following handling instructions since the laser diode in the Laser Pickup is not resistant to static electricity.

(1) Groundina

When you repair a Laser Pickup, first ground the human body, as well as the measuring instruments and other tools (with particular caution to soldering iron). What's more, your workbench and floor should desirably be grounded using conduc-(NO GOOD)

tive sheet or copper plate. See Fig. 1.1. NOTE: Be careful so as not to let your clothes touch the Laser Pickup, as static electricity on the clothes will not be released even if your body is grounded.

(2) Discharge of Electricity

Be sure to discharge electricity from objects brought into contact with the Laser Pickup (i.e., soldering iron, tweezers, probes, volt-ohm-meter probes, etc.) before starting work by contacting them with the body chassis. Besides, never touch the Laser Pickup while power is applied.

(3) Soldering Iron to be Used

The soldering iron for use in repair work should be: (1) a ceramic soldering iron, (2) a soldering iron with its metal part grounded, or (3) a soldering iron whose insulation resistance after five minutes of power application is 10 M-ohm or more at 500 VDC. Soldering should be completed promptly, at a soldering iron temperature of 320° max (39 W). A soldering iron heated above this temperature can break down the laser diode.

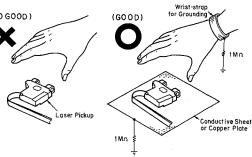
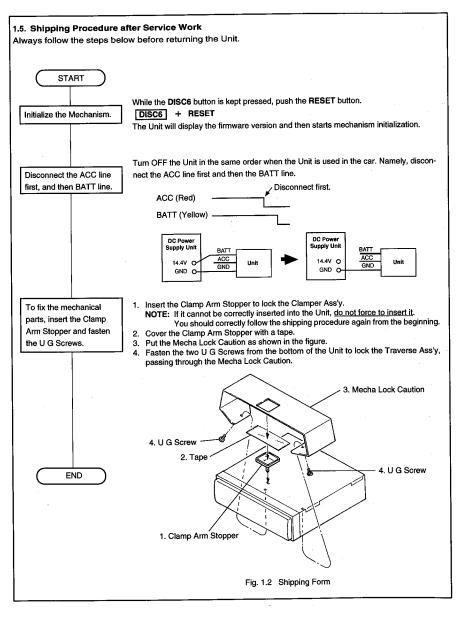


Fig. 1.1 Handling the Laser Pickup



1.6. Handling the Laser Pickup

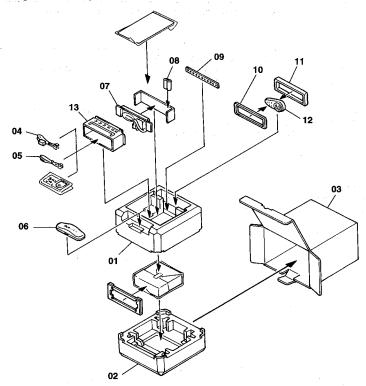


Fig. 1.3

| Schematic Ref. No. | Part No. | Description | Q'ty | Schematic Ref. No. | Part No. | Description | Q'ty |
|-----------------------|----------|--------------------------------|------|-----------------------|------------|-------------------------|------|
| | | Package and Accessory Ass'y | | | 0B90359A | Masking Tape | 4 |
| | | | | | 0B90520A | Fuse 250V 3A | 1 |
| 01 | 0F05345A | Package Top (USA, CAN) | 1 | | 0B90525A | Fuse N8A 250V | 1 |
| | 0F05359A | Package Top (JPN) | 1 | | 0D06960A | Magic Tape A | 1 |
| 02 | 0F05346A | Package Bottom (USA, CAN) | 1 | _ | 0D06961A | Magic Tape B | 1 |
| | 0F05360A | Package Bottom (JPN) | 1 | | 0D06962A | Magic Tape C | 1 |
| 03 | 0F05363A | Inner Čarton (USA, CÁN) | 1 | - | 0D07048A | Magic Tape BK A | ż |
| | 0F05361A | Inner Carton (JPN) | 1 | _ | 0D07049A | Magic Tape BK B | 2 |
| 04 | 0B84883B | 6P Wire Ass'v | 1 | _ | DG05271A | | 1 |
| 05 | 0B84862C | 8P SP Cable Ass'v | 1 | _ | JG04899A | Bolt Ass'v | i |
| 06 | DA05321A | Carrying Case Ass'y (USA, CAN) | 1 | _ | 0J08221B | Connector Bracket | i |
| 07 | | Heat Sink Bracket Ass'y | 1 | _ | 0E00612A | M3x6 + Pan (2A) | i |
| 08 | 0B90462A | Battery UM4x1 | 2 | | | (for Connector Bracket) | • |
| 09 | 0J07417A | Metal Stay (USA, CAN) | 1 | _ | 0J07428A | Rubber Cap (USA, CAN) | 1 |
| 10 | 0H07542A | Panel Frame (USA, CAN) | 1 | _ | 0J07968B | Lock Plate (USA, CAN) | į |
| 11 | 0H07771A | Panel Frame L (USA, CAN) | 1 | _ | DG04858A | Terminal Ass'y D (JPN) | - 7 |
| 12 | DA05247A | | i | | - 00 10001 | 70 | • |
| 13 | | Sleeve Ass'y (USA, CAN) | i | | | | |
| _ | 0D07031C | Owner's Manual (English) | i | | | | |
| _ | 0D07030B | Owner's Manual (Japanese) | 1 | | | | |
| _ | 0F05381A | Soft Sheet (for Front Panel) | - 4 | | | | |

2. REMOVAL PROCEDURES

WARNING:

Before starting disassembly, be sure to disconnect the power supply lines from a power source.

CAUTIONS:

- Before turning on the power, be sure that there is no abnormality.
- · Be careful not to leave parts such as screws and washers unattached or loose inside the Unit.
- Be careful not to damage the flexible cable during service work.
- · Do not excessively tighten screws.
- . Do not reuse E-rings.
- Assembly should be performed in the reverse order of disassembly unless otherwise specified. However, be sure to follow the notes or procedures if written.
- Before returning the Unit, follow 1.5 "Shipping Procedure after Service Work" on page 3.

General Maintenance Tools:

- · Philips screwdriver
- Tweezers
- Cutting Nippers
- · Soldering Iron (Ceramic one or whose metal part is grounded)

Removal Procedures:

2.1. Preparation

- (1) Remove the two transportation screws (U G Screws) on the bottom, that lock the Traverse Ass'y.
- (2) Remove the Mecha Lock Caution, tape, and Clamp Arm Stopper on the Top Cover. The Clamp Arm Stopper is used to lock the Clamper Ass'y of the Unit.

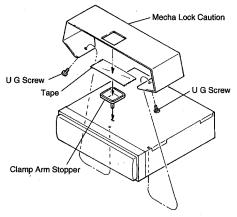


Fig. 2.1

2.2. Top Cover Ass'y

Refer to Fig. 2.2.

- (1) Remove the screws F01 (2 pcs.) and detach F02 (Lock Plate, 2 pcs.).
- (2) Remove the screws F03 (M1.4x3 Countersunk (Black Chromate), 2 pcs.) and detach F04 (Top Cover Ass'y).

 NOTE: Do not apply excessive force to the Top Cover Ass'y as it can be deformed.

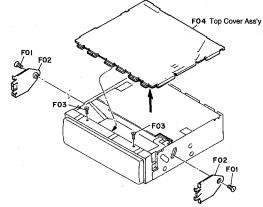


Fig. 2.2

2.3. Main P.C.B. Ass'y and Front Panel Block

Refer to Figs. 2.3.1 and 2.3.2.

- (1) Remove the Top Cover Ass'y. See item 2.2.
- Remove the screws F01 (M2x1.8 + Pan, 5 pcs.), F02 (M2.6x3 + Pan, 2 pcs.), F03 (M2.6x8 + Pan, 1 pce.) and F04 (M3x3 + Binding, 1 pce.).
- Gently lift the CN-501 part (the right front part) of F10 (Main P.C.B. Ass'y) to disconnect CN-501 from the CD P.C.B. Ass'y on the Mechanism Ass'y. Refer to Fig. 2.3.2.

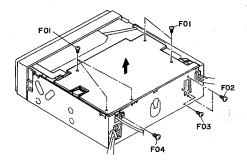
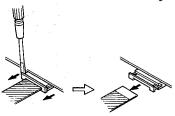


Fig. 2.3.1

(4) While lifting F10 (Main P.C.B. Ass'y) a little, disconnect the five flexible cables F05 to F09 from CN-106, CN-105, CN-508, CN-107, and CN-502 on F10 (Main P.C.B. Ass'y).

NOTE: To disconnect the flexible cable, unlock the connector lock before disconnecting it.



[Disconnecting the Flexible Cable]

- Remove F10 (Main P.C.B. Ass'y) while lifting its rear left cable upward.
 - NOTE: At this time, push the connector case "A" inward as it comes in contact with the chassis hole edge.
- (6) Remove the screws F11 (M3x3 + Binding, 2 pcs.) and F12 (M1.4x4 Countersunk, 2 pcs.) and detach F13 (Front Panel Block).
 - * F12 for JPN: M1.4x3 Countersunk, 2 pcs.

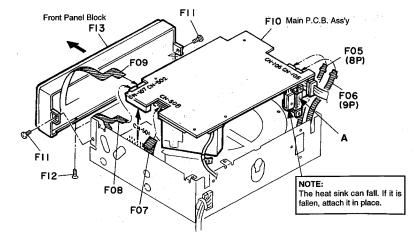


Fig. 2.3.2

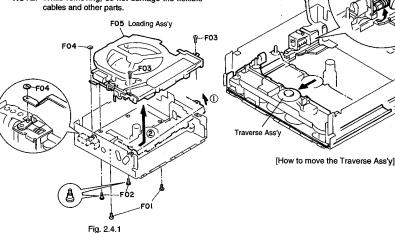
2.4. Loading Ass'y

2.4.1. Removing the Loading Ass'v

Refer to Fig. 2.4.1.

- (1) Remove the Main P.C.B. Ass'y. See 2.3 "Main P.C.B. Ass'y and Front Panel Block".
- Remove the screws F01 (M1.7x2 + Pan (Black Chromate), 2 pcs.), F02 (M17 STC Lock Screw, 2 pcs.) and F03 (M2x2 Countersunk, 2 pcs.).
- Carefully disengage the cut washer F04 (Cut Washer 1.6x3.5x0.125) to disengage F05 (Loading Ass'y) from the main body.
- While lifting the right side of F05 (Loading Ass'y) (1), carefully remove it as shown by the arrow 2.

NOTE: While removing, do not damage the flexible

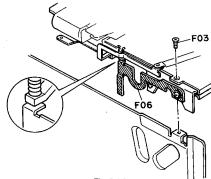


2.4.2. Installing the Loading Ass'y

Refer to Fig. 2.4.2.

Install the Loading Ass'y by reversing the removal procedure. However, pay attention to the following points.

- · Pay special attention so as not to let fall the four white caps (Stocker Screw Top) of the Loading Ass'y.
- NOTE: If it falls, recheck the position of the Stocker Screw Gears. Refer to Fig. 2.10.3 for correct positions.
- . To allow installation of the Loading Ass'y, move the Traverse Ass'y toward the front of the Unit. See "How To Move the Traverse Ass'y" on the right column.
- · Set F06 (Stocker Clutch Plate) in place before installing the Loading Ass'y as F06 (Stocker Clutch Plate) can move freely.



How To Move the Traverse Ass'y

While pushing the part "A" backward, turn the gear of

the Feed Motor Ass'y with your finger tip in the direction

as shown by the arrow to move the Traverse Ass'y for-

ward. To move it backward, turn the gear in reverse.

Fig. 2.4.2

7

2.5. CD P.C.B. Ass'y

2.5.1. Removing the CD P.C.B. Ass'y Refer to Figs. 2.5.1 and 2.5.2.

(1) Remove the Loading Ass'y. See 2.4 "Loading Ass'y".

- (2) Be sure that the Traverse Ass'y is in the front position. (If not, move it by referring to "How To Move the Traverse Ass'v" in 2.4 "Loading Ass'y".)
- Remove the screws F01 (M2.6x3 + Pan (Black Chromate), 2 pcs.),
- Disconnect the flexible cables F02 and F03 from the CD P.C.B. Ass'y.
- (5) Lift F05 (CD P.C.B. Ass'y) and short the laser diode shorting lands "A" on the flexible cable F04.

NOTE: Use the ceramic soldering iron or the soldering iron whose metal part is grounded.

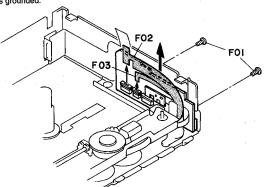
(6) Disconnect the flexible cable F04 from F05 (CD P.C.B. Ass'y).

2.5.2. Installing the CD P.C.B. Ass'y

install the CD P.C.B. Ass'y by reversing the removal procedure.

NOTE: Do not forget to remove the solder on the laser diode shorting lands "A" with the soldering iron after connecting the flexible cable of the pickup to F05 (CD P.C.B. Ass'v).

> Use the ceramic soldering iron or the soldering iron whose metal part is grounded.



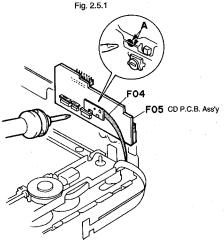


Fig. 2.5.2

2.6. Traverse Mecha Chassis Ass'y

2.6.1. Removing the Traverse Mecha Chassis Ass'v Refer to Fig. 2.6.

- (1) Remove the CD P.C.B. Ass'y. See 2.5 "CD P.C.B. Ass'y".
- Remove the screws F01 (M1.7x1.6 + Pan (Black Chromate), 2 pcs.) and detach F02 (Guide PL Block).
- (3) Remove the C-ring F03 (1 pce.), washers F04 (Washer 2.6x5x0.5, 2 pcs.), F05 (Thrust Ring, 3 pcs.), and F06 (Lock Guide Top, 3 pcs.).
- Remove F07 (Traverse Mecha Chassis Ass'y) from the dampers of the main body.

The four springs F08-F10 are fallen.

NOTE: Be sure which spring should be mounted on which damper as there are three kinds of springs.

- 2.6.2. Installing the Traverse Mecha Chassis Ass'v Install the Traverse Mecha Chassis Ass'y by reversing the removal procedure. However, pay attention to the following
- · Mount the correct spring on each damper.







· Securely insert the Traverse Mecha Chassis Ass'y into the four dampers.

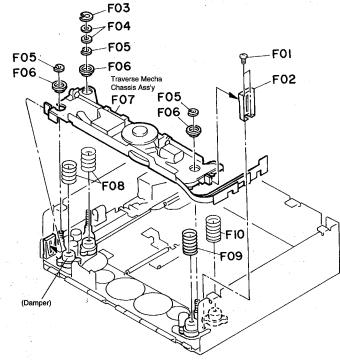


Fig. 2.6

2.7. Laser Pickup

2.7.1. Removing the Laser Pickup

Refer to Fig. 2.7.

- (1) Remove the Traverse Mecha Chassis Ass'y. See 2.6 "Traverse Mecha Chassis Ass'v".
- Remove the screws F01 (M1.7x1.8 Countersunk , 3 pcs.) and detach F02 (Spindle Motor Ass'y).
- Remove the screws F03 (M1x1.5 + Pan (Black Chromate), 2 pcs.) and the washers F04 (Plastic Washer 1.3x3.3x0.3).
- Remove the screws F05 (M1.4x1.4 + Pan (Black Chromate), 2 pcs.) and detach F06 (Thrust Bracket Block).
- Remove the cut washer (Cut Washer 1.6x3.5x0.5) and detach F08 (Pickup Block).

(6) Remove the screws F09 (M1.7x1.6 + Pan (Black Chromate), 2 pcs.) and F10 (Pickup Feed Spring) and pull out F11 (Pickup Feed Shaft Ass'y) from F12 (Pickup).

2.7.2. Installing a Laser Pickup

Install the Pickup by reversing the removal procedure.

- NOTES: 1. As a Laser Pickup is packed in a conductive pack, do not take it out of the pack until you
 - 2. Do not unsolder the shorting lands on the flexible cable of the pickup in this stage. It should be removed after inserting the flexible cable into the CD P.C.B. Ass'y as described in 2.5.2 "Installing the CD P.C.B. Ass'y".

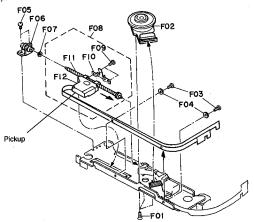


Fig. 2.7

2.8. Sled Motor Ass'y

Refer to Fig. 2.8.

- (1) Remove the Traverse Mecha Chassis Ass'y. See 2.6 "Traverse Mecha Chassis Ass'v".
- Remove the screws F01 (M1.7x1.8 Countersunk, 3 pcs.) and detach F02 (Spindle Motor Ass'y).
- Remove the screws F03 (M2x1.8 + Countersunk, 2 pcs.), F04 (M1x1.5 + Pan (Black Chromate), 1 pce.), and the washer F05 (Plastic Washer 1.3x3.3x0.3).
- (4) Remove F06 (Sled Motor Ass'y) and F07 (Sled Belt, 2

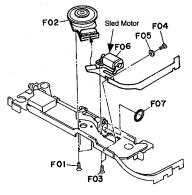


Fig. 2.8

2.9. Feed Motor Ass'y

2.9.1. Removing the Feed Motor Ass'y

Refer to Figs. 2.9.1 to 2.9.3.

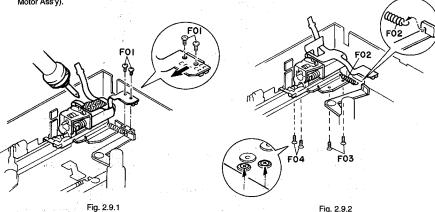
- (1) Remove the Loading Ass'y. See 2.4 "Loading Ass'y".
- (2) Be sure that the Traverse Ass'y is in the front position. (If not, move it by hand. See "How To Move the Traverse Ass'y" in 2.4 "Loading Ass'y".)
- (3) Remove the screws F01 (M1.7x1.6 + Pan (Black Chromate), 2 pcs.).
- Unsolder the flexible cable (unsolder three places).
- Unhook the spring F02 (Disc Lock Arm Spring).
- Remove the screws F03 (M2x2 Countersunk (Black Chromate), 2 pcs.) and F04 (BT2x3.5 Countersunk (Black Chromate), 2 pcs.).
- Peel off F05 (Feed Motor Spacer) that sticks the flexible cable onto the chassis, then remove F06 (Feed Motor Ass'y).

2.9.2 Installing the Feed Motor Ass'y

Install the Feed Motor Ass'y by reversing the removal procedure. However, pay attention to the following points.

- . Insert the flexible cable of the Feed Motor Ass'y (part "A") between the chassis and the flexible cable "B" as shown in Fig. 2.9.3.
- Stick F05 (Feed Motor Spacer) on the original place.
- . When tightening the screws F01, slide the flexible cable toward the front as shown by the arrow in Fig. 2.9.1.

Fig. 2.9.2



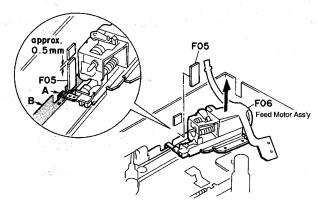


Fig. 2.9.3

2.10. Stocker Ass'y and Disc Holders 2.10.1. Removing the Stocker Ass'y and Disc Holders Refer to Fig. 2.10.1.

- (1) Remove the Loading Ass'y. See 2.4 "Loading Ass'y".
- (2) Remove F01 (Stocker Screw Top, 4 pcs.).
- (3) Carefully remove F02 (Stocker Ass'y).
- By turning the four Stocker Screw Gears little by little in turn, remove the six Disc Holders from the Stocker Screw Gears one by one.

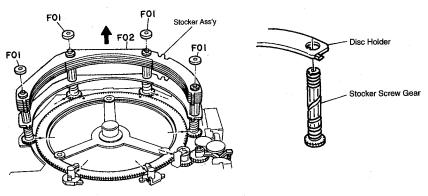


Fig. 2.10.1

2.10.2. Installing the Stocker Ass'y and Disc Holders Refer to Figs. 2.10.2 and 2.10.3.

- (1) While turning the four Stocker Screw Gears little by little in turn, insert each Disc Holder one by one.
 - As shown in Fig. 2.10.2, leave space of approx. 2 mm (approx. equivalent to the Disc Holder's thickness) at the free end of the Stocker Screw Gears.
 - Insert the Disc Holders without space between them. When you try to insert the 5th Disc Holder, the first one will apart approx. 10 mm as shown in Fig. 2.10.2.

(to be continued on the next page)

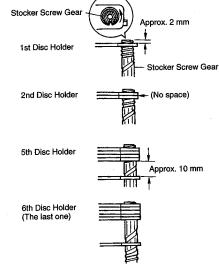
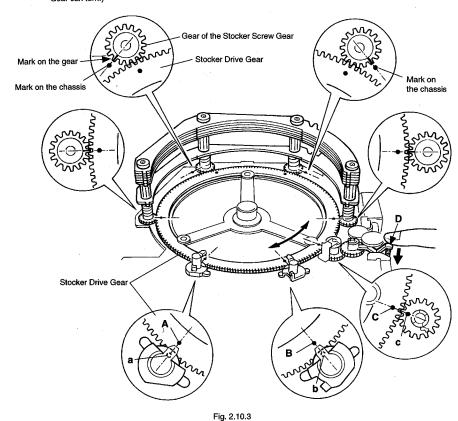


Fig. 2.10.2

- (2) When installing the Stocker Ass'y in the chassis, align the position of the gear of each Stocker Screw Gear as shown in Fig. 2.10.3.
 - Before installing the Stocker Screw Gears in the chassis, be sure the large Stocker Drive Gear position is correct.
 - The holes "A", "B", and "C" on the Stocker Drive Gears should align with corresponding marks "a", "b", and "C".
 - If not, turn the large Stocker Drive Gear by hand to correct its position, while depressing the part "D" with your finger tip as shown in the figure. (By pressing the part "D", the Stocker Drive Gear can turn.)
- 2) Aligning the two Stocker Screw Gear at the front: Align the mark (projection) on the gear of the Stocker Screw Gear with the mark (hole) on the large Stocker Drive Gear as shown in the figure. NOTE: Since the mark (projection) on the gear is difficult to find, it is a good idea to reflect
- light to find it.

 3) Aligning the two Stocker Screw Gear at the rear:
 Align the mark (projection) on the gear of the
 Stocker Screw Gear with the mark (hole) on the
 chassis as shown in the figure.



2.11. Shut Arm Block and Loading FPC Ass'y Refer to Fig. 2.11.

2.11.1. Removing the Shut Arm Block and Loading FPC

- Remove the Loading Ass'y. See 2.4 "Loading Ass'y".
- (2) Remove the screws F01 (M2x1.8 + Pan (Black Chromate), 3 pcs.) and detach F02 (Shut Arm Block) by shifting it to the right in Fig. 2.11.
- (3) Remove the screws F03 (M2x1.8 + Pan (Black Chromate), 1 pce.) and F04 (M2x2.5 + Pan, 1 pce.) that fasten F05 (Loading FPC Ass'y).
 - (The Loading FPC Ass'y are soldered to the motor terminals.)

2.11.2. Installing the Shut Arm Block and Loading FPC Ass'v

- Fasten F05 (Loading FPC Ass'y) with the screws in the following order.
 - 1) Fasten the center screw F04 and then right and left screws F03 and F01.
 - 2) Loosen the center screw F04 once and then refas-
- Shift the Shut Arm Block to the right in Fig. 2.11. Then, assemble it to the Shut Arm Rack of the Loading Ass'y. In this case, assemble it so that 3 teeth of the Shut Arm Rack comes out as shown when the Shut Arm is set free (set vertically).

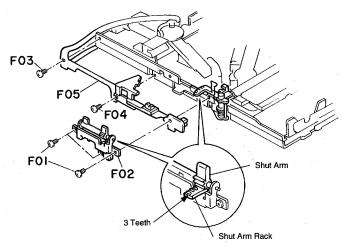


Fig. 2.11

2.12. Loading Guide Ass'y

2.12.1. Preparation Before Removing the Loading Guide Ass'v

It is required to position the Clamper Ass'y of the Loading Ass'v in the clamp (chucking) position before removing the Loading Guide Ass'y. Otherwise, the Loading Guide Ass'y cannot be installed to the loading chassis.

To position the Clamper Ass'y to the clamp (chucking) position, follow the steps below:

- (1) Check if the Clamper Ass'y is in the clamp (chucking) position as shown in Fig. 2.12.1. If not, proceed to step (2).
- Connect two batteries (3.0 V) between the terminals of the Loading Motor Ass'y. As you apply the voltage to the Loading Motor Ass'y, the loading mechanism will move. So, set the Clamper Ass'y to the clamp (chucking) position or near position.

ing it upward. To separate F07 (Loading Guide Ass'y) from the Loading Chassis Ass'y, it is required to unsolder the flexible cable from the Loading Motor Ass'y.

(1) Remove the Shut Arm Block and Loading FPC Ass'y.

2.1x5x0.125) and pull out F02 (Gear TBL 2).

mate)) and detach F04 (P Arm Guide).

See 2.11 "Shut Arm Block and Loading FPC Ass'v".

Remove the cut washer F01 (Cut Washer

Remove the screw F03 (M2x2.5 + Pan (Black Chro-

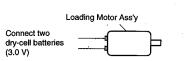
Remove the screws F05 (M2x3 + Pan (Black Chro-

mate), 5 pcs), disengage F06 (Cut Washer 1.2x3x

0.125), and detach F07 (Loading Guide Ass'y) by lift-

2.12.2. Removing the Loading Guide Ass'y

Refer to Fig. 2.12.1.



[Connecting battery to turn the Loading Motor Ass'v]

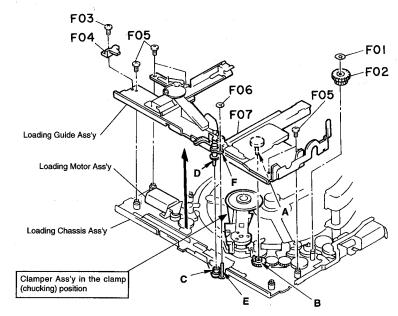


Fig. 2,12.1

2.12.3. Installing the Loading Guide Ass'y

When installing the Loading Guide Ass'y in the Loading Chassis Ass'y, follow the steps below:

Note that the 3 places "A"-"B", "C"-"D" and "E"-"F" (see Figs. 2.12.1 and 2.12.2) must be correctly positioned.

- (1) First, temporarily mount the Plate LG R of the Loading Guide Ass'y on the Loading Chassis Ass'y with two screws "G", as it can move freely and come in contact with other parts. Refer to Fig. 2.12.2.
- (2) Turn the movable Plate PLS Sub Ass'y "H" to bring it to the position shown in Fig. 2.12.2.
- (3) Insert the shaft "A" of the Loading Guide Ass'y into the hole "B" of the gear train on the Loading Chassis Ass'y. (After insertion, the Loading Guide Ass'y will float from the Loading Chassis Ass'y a little.)
- (4) While opening the Loading Guide L outward, align the hole "C" of the Plate PLS Sub Ass'y with the pin "D" of the Loading Guide Ass'y and, at the same time, align the pin "E" of the Plate PLS Sub Ass'y with the hole "F" of the Loading Guide Ass'y. Then, engage them each other.
- (5) Move the part "I" in the direction shown by the arrow. Then, be sure that the Loading Guide Ass'y is securely seated to the Loading Chassis Ass'y.
- (6) Fasten the cut washer F06 and 5 screws F05 to mount the Loading Guide Ass'y.

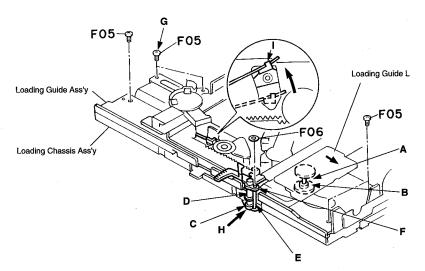


Fig. 2.12.2

3. MECHANICAL ADJUSTMENTS

3.1. Gear Position Adjustments around the Stocker Drive Gear

Refer to Fig. 3.1.

NOTE: To turn the large Stocker Drive Gear, depress the part "A" with your finger tip as shown in Fig. 3.1.

3.1.1. Positioning the STCD Gear and Disc Lock SGThe STCD Gear and two Disc Lock SGs must be positioned as shown in Fig. 3.1.

3.1.2. Positioning the Stocker Screw Gears

The four Stocker Screw Gears must be positioned as shown in Fig. 3.1.

(1) Aligning the two Stocker Screw Gear at the front:
Align the mark (projection) on the gear of the Stocker

Screw Gear with the mark (hole) on the large Stocker <u>Drive Gear</u> as shown in the figure.

NOTE: Since the mark (projection) on the gear is difficult to find, it is a good idea to reflect light to find it.

Aligning the two Stocker Screw Gear at the rear:
 Align the mark (projection) on the gear of the Stocker
 Screw Gear with the mark (hole) on the chassis as shown in the figure.

For details, refer to 2.10.2 "Installing the Stocker Ass'y and Disc Holders".

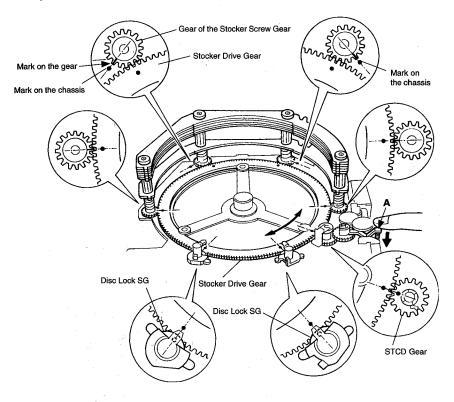


Fig. 3.1

3.2. Disc Lock Drive Gear Positioning

- (1) Lower the Disc Lock Sleeve until it reaches the lowest position. Namely, turn the Disc Lock Drive Gear fully clockwise until it stops.
- (2) Install the Disc Lock Plate so that its 3rd tooth engages with the Disc Lock Drive Gear as shown in Fig. 3.2.

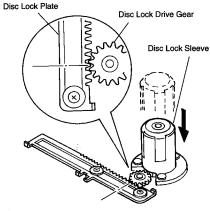


Fig. 3.2

3.3. Loading Guide R B Positioning
Install the Loading Guide R B so that its gear is engaged with the P Arm Gear as shown in Fig. 3.3. In this case, be sure that the Loading Guide R B is fully

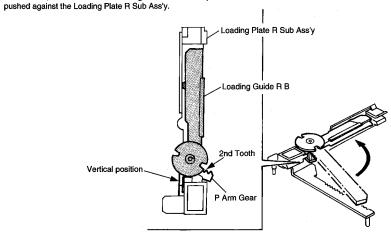


Fig. 3.3

4. MEASUREMENT INSTRUMENTS AND JIGS

- (1) Oscilloscope (40 MHz or more)
- DC Power Supply Unit (+14.4 V DC) DC Power Supply Unit (+5 V DC) (2)
- ABEX Test Disc TCD-725A (DA09193A)
 ABEX Test Disc TCD-784 (DA09195A)
- (6) CD-ROM Test Unit (DA09190A)
- Test Unit Cable (DA05322A)
- Tracking Offset Meter LTM-9055 or LE 9055A (Leader Electronics Corp.)

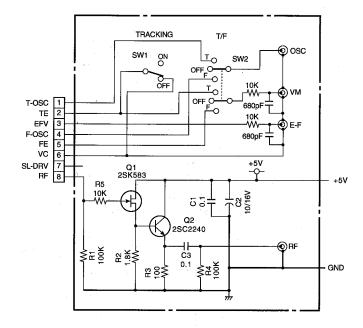


Fig. 4.1 CD-ROM Test Unit

5. ELECTRICAL ADJUSTMENTS

NOTES:

Preset position of the semi-fixed volumes:

When the CD P.C.B. Ass'y or semi-fixed volume VR101 or VR102 is replaced with new one, preset the semi-fixed volumes to their mechanical center positions before starting adjustment.

Connecting Measurement Instruments: Connect measurement instruments to the CD P.C.B. Ass'y as shown in Fig. 5.1. Fig. 5.1 also shows the parts location for adjustment.

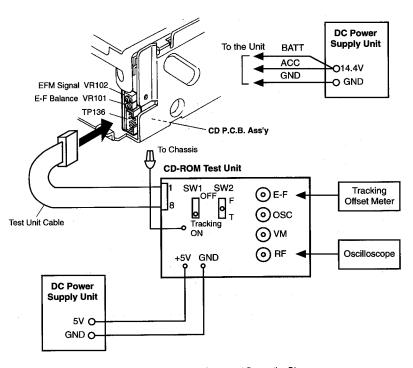


Fig. 5.1 Measurement Instrument Connecting Diagram

| STEP | ITEM | SIGNAL SOURCE | OUTPUT CONNECTION | ADJUST- MENT | REMARKS | |
|------|------------------------------------|-----------------------------------|--|--|--|--|
| 1 | Preparation To TP136 (CD P.C.B. As | Test Unit Cable ss'y) To Chassis | CD-ROM Tes CD-ROM Tes B OF Trackin N To Power Supp | 1. To access to the semi-fixed volumes on the CD P.C.B. Ass'y, remove the Front Panel Block and then carefully place it on the Unit. (See item 2.3.) 2. Disconnect the original 8P cable from the CD-ROM Test Unit. 3. Connect one end of the additional Test Unit Cable to the 8P connector of the CD-ROM Test Unit. 4. Connect the other end of the additional Test Unit Cable to the TP136 connector on the CD P.C.B. Ass'y. 5. Connect the Ground Wire with Clip of the CD-ROM Test Unit to the chassis of the Unit. 6. Connect +5V and GND wires of the CD-ROM Teurit to a +5V DC power supply unit. 7. Supply +14.4V DC to the ACC and BATT lines of the Unit. | | |
| 2 | Trackin ON | t Unit | Oscilloscope to RF Connector of the CD-ROM Test Unit Oscilloscope | CD P.C.B. VR102 | 1. Set SW1 of the CD-ROM Test Unit to Tracking ON position and SW2 to OFF (center) position. 2. Play back the first track of the test disc (within 1 minute). 3. Adjust VR102 until waveform amplitude becomes maximum and the waveform becomes clear (not thick) as shown below: Oscilloscope Setting: AC Mode, 0.2 V/div, 0.5 μs/div 4. Stop the test disc. | |

| STEP | ITEM | SIGNAL SOURCE | OUTPUT CONNECTION | ADJUST- MENT | REMARKS |
|------|---|----------------------------|----------------------|--|---|
| 3 | Tracking Office Leader | Test Unit | 55 or LE-9055A | 1. Set SW1 of the CD-ROM Test Unit to Tracking ON position and SW2 to OFF (center) position. 2. Connect a tracking offset meter to the E-F connector of the CD-ROM Test Unit, and set the switches of the meter as follows: • Sensitivity switch: HIGH (right side) • Level switch: MEASURE (left side) • Center switch: MEASURE (center position) 3. Set SW1 of the CD-ROM Test Unit to Tracking OFF position and play back the first track of the test disc. Then, within several seconds, adjust VR101 to obtain 0V ±50mV DC on the meter located in the center of the Tracking Offset Meter. (After several seconds, the sound output will be stopped though the test disc turns.) | |
| 4 | Operation Check | ABEX Test Disc TCD-725A | | | Make sure that no noise nor track-jumping is found in the following programs of the test disc. To select the desired program, press FWD. Skip (>>) button or REV. Skip (<<) button of the Control Button Unit. Interruption 600 μm: 4th program Black dot 500 μm: 8th program Simulated fingerprint: 13th program |
| 5 | Termination | | | | 1. Eject the test disc. 2. Perform the "Initialization" as follows: While pressing and holding the DISC6 button, press the RESET button. (The firmware version will be displayed and then initialization begins.) DISC6 + RESET Button (to be continued) |

| STEP | ITEM | SIGNAL SOURCE | OUTPUT CONNECTION | ADJUST- MENT | REMARKS |
|------|------|------------------|----------------------|-----------------|---|
| | | | | | Disconnect the ACC and BATT power lines in that order to set the Unit to the Standby state. First, disconnect the ACC power line. DC Power Supply Unit BATT BATT ACC GND Unit Un |
| | | | | | Next, disconnect the BATT power line. DC Power Supply Unit 14.4V O GND UNIT 14.4V O |
| | | | U G Screw Tape | ppper | Service Work" on page 3. Mecha Lock Caution U G Screw |
| | | | | | |

6. MECHANISM ASS'Y AND PARTS LIST

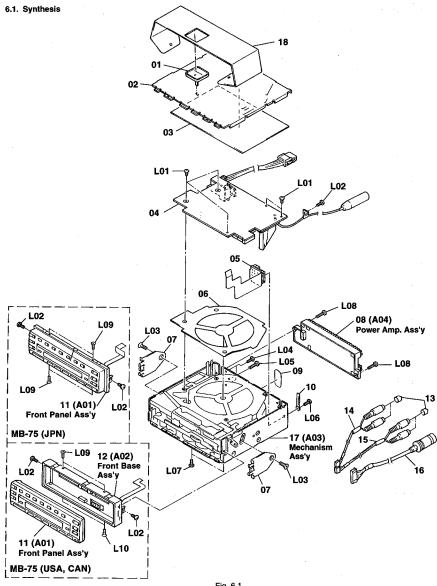


Fig. 6.1

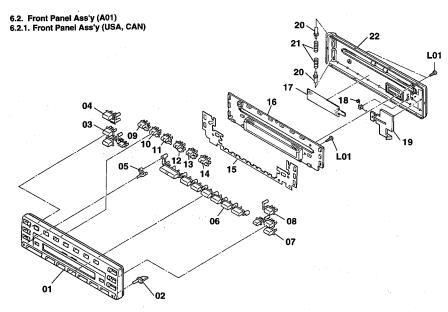


Fig. 6.2.1 For USA, CAN

| 6.1. Synthesis |
|----------------|
|----------------|

| Schematic Ref. No. | Part No. | Description | Q'ty | Schematic Ref. No. | Part No. | Description | Q'ty |
|-----------------------|----------|------------------------------|----------|---------------------------------------|------------------|-----------------------------------|------|
| | | Synthesis | <u> </u> | | | | |
| | _ | Synthesis | | L10 | 0E04100A | M1.4x4 Countersunk (Black Chromat | e) 2 |
| 01 | 0C20480C | Clamp Arm Stopper | 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | (USA, CAN) | |
| 02 | 0C20365E | Top Cover | 1 | | | | |
| 03 | 0J08184A | Insulator Main A | 1 | 621 Front | t Panel Ace'v | (A01) (USA, CAN) | |
| 04 | BA09853A | Main P.C.B. Ass'y (USA, CAN) | 1 | | | (AU) (OUA, UAII) | |
| | BA09854A | Main P.C.B. Ass'y (JPN) | 1 | Schematic | | | |
| 05 | BA09859A | | 1 | Ref. No. | Part No. | Description | Q'ty |
| 06 | 0J08185A | Insulator Main B | 1 | A01 | HA07641A | Front Panel Ass'y (USA, CAN) | 1 |
| 07 | 0J08124A | Lock Plate (USA, CAN) | . 2 | 7.01 | 1110101111 | rioni and Add y (don, drait) | • |
| 08 | HA07651A | | 1 1 | 01 | ΗΔ Ω777QΔ | Front Panel Sub Ass'v | - 1 |
| 09 | 0J08196A | Label Protector | 1 | 02 | 0H07802A | | - 1 |
| 10 | 0J06068A | Clip | 1 | 03 | 0H07792A | | - 4 |
| 11 | HA07641A | Front Panel Ass'y (USA, CAN) | 1 | 04 | 0H07790A | | - i |
| | HA07642A | Front Panel Ass'v (JPN) | 1 | 05 | 0H07809A | | i |
| 12 | HA07610A | Front Base Ass'y (USA, CAN) | 1 . | 06 | 0H07797A | | i |
| 13 | 0B84524A | Cap | 4 - | 07 | | TU/PA Knob | i |
| 14 | 0B84910A | RCA Ass'y Aux1 | 1 . | 08 | 0H07793A | | i |
| 15 | 0B84911A | RCA Ass'y Aux2 | 1 | 09 | | Disc Select Knob 1 | i |
| 16 | 0B84912A | 13P DIN Áss'y | 1 | 10 | | Disc Select Knob 2 | i |
| 17 | CA10130A | Mechanism Ass'y | 1 | 11 | | Disc Select Knob 3 | i |
| 18 | 0D07059B | Mecha Lock Caution | 1 | 12 | | Disc Select Knob 4 | i |
| L01 | 0E04109A | M2x1.8 + Pan | 5 | 13 | | Disc Select Knob 5 | - i |
| L02 | 0E04047A | | 3 | 14 | | Disc Select Knob 6 | i . |
| L03 | 0E04057A | | 2 | 15 | 0J08165A | | i |
| L04 | 0E04046A | | 2 | 16 | BA09861A | | i |
| L05 | 0E04036A | | 1 | 17 | 0J08194B | | i . |
| L06 | 0E03070A | | . 1 | 18 | 0J08120A | | 1 |
| L07 | 0C20447B | | 2 | 19 | 0J08160A | Lock Arm R | 1 |
| L08 | 0E00986A | | 2 | 20 | 0J08161A | | 2 |
| L09 | 0E04053A | M1.4x3 Countersunk | 2 | 21 | 0J08162B | | 2 |
| | | (Black Chromate) (USA, CAN) | | 22 | 0H07749E | | 1 |
| | 0E04053A | M1.4x3 Countersunk | 4 | L01 | | PT2x8 + Binding (Black Chromate) | 3 |
| | | (Black Chromate) (JPN) | | | | Ç ,=-=, | - |

6.2.2. Front Panel Ass'y (JPN)

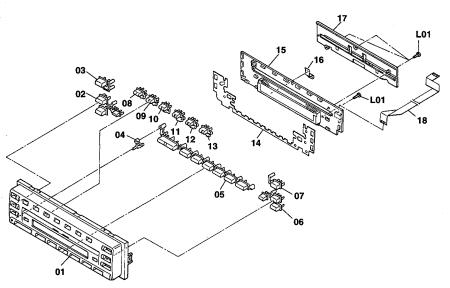


Fig. 6.2.2 For JPN

6.2.2. Front Panel Ass'y (A01) (JPN)

| Schematic Ref. No. | Part No. | Description | Q'ty |
|-----------------------|----------|----------------------------------|------|
| A01 | HA07642A | Front Panel Ass'y (JPN) | 1 |
| 01 | HA07780A | Front Panel Sub Ass'y | 1 |
| 02 | 0H07792A | Up/Down Knob | 1 |
| 03 | 0H07790A | Source Knob | 1 |
| 04 | 0H07809A | Reset Knob | 1 |
| 05 | 0H07797A | Preset Knob | 1 |
| 06 | 0H07795A | TU/PA Knob | 1 |
| 07 | 0H07793A | Eject Knob | 1 |
| 08 | 0H07784D | Disc Select Knob 1 | 1 |
| 09 | 0H07785D | Disc Select Knob 2 | 1 |
| 10 | 0H07786D | Disc Select Knob 3 | 1 |
| 11 | 0H07787D | Disc Select Knob 4 | - 1 |
| 12 | 0H07788D | Disc Select Knob 5 | - 1 |
| 13 | 0H07789D | Disc Select Knob 6 | 1 |
| 14 | 0J08165A | LED Filter | - 1 |
| 15 | BA09867A | | 1 |
| 16 | 0J08195B | Conductor Sheet C | 1 |
| 17 | HG07635B | | 1 |
| 18 | 0B84918A | Flexible Wire 14P | 1. |
| L01 | 0E03814A | PT2x8 + Binding (Black Chromate) | 4 |

6.3. Front Base Ass'y (A02) (USA, CAN)

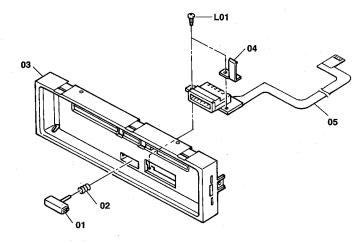
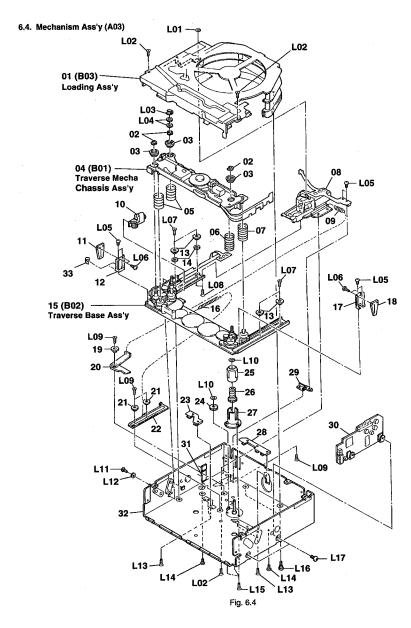
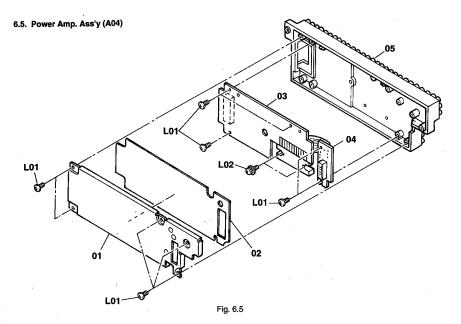


Fig. 6.3 For USA, CAN

6.3. Front Base Ass'y (A02) (USA, CAN)

| Schematic Ref. No. | Part No. | Description | Q'ty |
|-----------------------|----------|-----------------------------|------|
| A02 | HA07610A | Front Base Ass'y (USA, CAN) | 1 |
| 01 | 0J07962A | Push Button | 1 |
| 02 | 0J08164A | Push Button Spring | 1 |
| 03 | HG07634C | Front Base Sub Ass'y | 1 |
| 04 | 0J08176A | FPC Fixing Plate | 1. |
| 05 | BA09865A | Front FPC Ass'v | 1 |
| L01 | 0E04048A | PT2x4 + Pan | 2 |





6.4. Mechanism Ass'y (A03)

| Schematic Ref. No. | Part No. | Description | Q'ty | Schematic Ref. No. | Part No. | Description | Q'ty |
|-----------------------|----------|------------------------------|------|-----------------------|--------------|-----------------------------------|-----------------|
| A03 | CA10130A | Mechanism Ass'y | 1 | L01 | 0E04087A | Cut Washer 1.6x3.5x0.125 | |
| | | • | | L02 | 0E03499A | | 4 |
| 01 | CA10105A | Loading Ass'y | 1 | L02 | 0E03499A | | 4 |
| 02 | 0C20357A | Thrust Ring | 3 | L03 | 0E04120A | | 1 |
| 03 | 0C20170A | Lock Guide Top | 3 | L05 | 0E04067A | | 2 6 |
| 04 | CA10138A | Traverse Mecha Chassis Ass'v | 1 | L06 | 0E04060A | | 4 |
| - 05 | 0C20393A | | 2 | L07 | | | |
| 06 | 0C20394B | | 1 | L08 | 0E04081A | | |
| 07 | 0C20392B | Damper Spring A | İ | L08 | 0E04095A | | |
| 08 | CA10102A | | i | | 0E04080A | | |
| 09 | 0C20446A | Disc Lock Arm Spring | i | L10 | 0E04090A | | 2 |
| 10 | CA10144A | Bevel G Bracket Ass'y | i | L11 | | BT2x3 + Pan | 1 |
| 11 | 0C20376A | Guide PL L | i | L12 | | Washer 2x4.3x0.4 | 1 |
| 12 | 0C20374A | | 4 | L13 | | BT2x2.5 Countersunk (Black Chroma | |
| 13 | 0C20104A | Traverse Base Collar | 4 | L14 | | M1.7x2 + Pan (Black Chromate) | 2 |
| 14 | 0C20352A | T P Roller | 7 | L15 | | BT2x3 Countersunk (Black Chromate |) 3 |
| 15 | 0020002A | Traverse Base Ass'v | - | L.16 | | M17 STC Lock Screw | ´ 2 |
| 16 | 0C20444B | Disc Lock Spring | 4 | L17 | 0E04076A | M2.6x3 + Pan (Black Chromate) | 2 |
| 17 | 0C20372A | Guide Spring 2 | 4 | | | | |
| 18 | 0C20372A | | - 1 | | | | |
| 19 | 0C20373A | Disc Lock Sensor Arm Shaft | 4 | 6.5. Power | Amp. Ass'y (| (A04) | |
| 20 | 0C20107A | | - 1 | Schematic | | | |
| 21 | | Lock Plate Collar | . 1 | Ref. No. | Part No. | Description | Qty |
| 22 | | Disc Lock Plate | 2 | | | | Q ty |
| 23 | | | | A04 | HA07651A | Power Amp. Ass'y | 1 |
| | 0C20109A | | 1 | | | | |
| 24 | 0C20111A | | 1 | 01 | 0H07769B | B. Cover | 1 |
| 25 | | Disc Lock Sleeve | ! | 02 | 0J08186A | Insulator Amp. | - 1 |
| 26 | 0C20114A | | 1 | 03 | BA09845A | Main P.C.B. Ass'y | 1 |
| 27 | 0C20115A | | 1 | 04 | BA09846A | Sub P.C.B. Ass'v | 1 |
| 28 | 0C20110A | | 1 | 05 | 0H07826B | Heat Sink | 1 |
| 29 | 0C20113A | | 1 | L01 | 0E04044A | M2.6x5 + Pan | 10 |
| 30 | BAU985/A | CD P.C.B. Ass'y | ! | L02 | 0E04097A | M2.6x8 + Pan with Washer | 2 |
| 31 | 00204770 | Feed Motor Spacer | . 1 | | | | _ |
| - 32 | | Main Chassis IND Sub Ass'y | 1 | | | | |
| 33 | 0C20486A | Guide Spring Sheet | 2 | | | | |

6.6. Traverse Mecha Chassis Ass'y (B01)

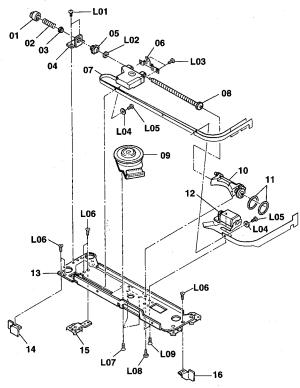


Fig. 6.6

6.6. Traverse Mecha Chassis Ass'y (B01)

| Schematic Ref. No. | Part No. | Description | Q'ty_ | Schematic Ref. No. | Part No. | Description | Q'ty |
|-----------------------|----------|-------------------------------------|-------|-----------------------|--------------|--|-----------|
| B01 | CA10138A | Traverse Mecha Chassis Ass'y | 1 | L07 | 0E03783A | M1.7x1.8 Countersunk (Black Chromate) | -, 3 |
| 01 | 0C20181B | Thrust Cap | 1 | L08 | 0E04093A | BT2x2.8 Countersunk (Black Chi | romate) 2 |
| 02 | 0C20183A | Thrust Spring | 1 | L09 | 0E04129A | M2x1.8 Countersunk (Black Chro | mate) 2 |
| 03 | 0C20182A | Thrust Washer | 1 | | | | |
| 04 | 0C20179B | Thrust Bracket | 1 | | | | |
| 05 | 0C20180A | Thrust Body | 1 | 6.7. Travers | se Base Ass' | y (B02) | |
| 06 | 0C20448E | Pickup Feed Spring | 1 | Schematic | | | |
| 07 | 0B90789B | Pickup | 1 | Ref. No. | Part No. | Description | Q'ty |
| 80 | | Pickup Feed Shaft Ass'y | 1 | | - ait No. | | |
| 09 | CA10152A | | 1 | B02 | | Traverse Base Ass'y | 1 |
| 10 | | Drive Shaft Guide Ass'y | 1 | | | | |
| 11 | 0C20483A | | 2 | 01 | 0C20362B | | 1 |
| 12 | | Sled Motor Ass'y | 1 | 02 | BA09875A | | - 1 |
| 13 | CG10139C | Traverse Mecha Chassis Sub Ass'y | 1 | 03 | 0C20172B | | 1 |
| 14 | 0C20368B | Vertical Guide L | 1 | 04 | 0C20173B | | 1 |
| 15 | CG10114B | | 1 | 05 | 0C20441B | | 1 |
| 16 | 0C20369C | Vertical Guide R | 1 | 06 | 0C20169E | | 3 |
| L01 | 0E04064A | M1.4x1.4 + Pan (Black Chromate) | 2 | 07 | CG10112B | L Guide Plate L Sub Ass'y | . 1 |
| L02 | 0E04091A | Plastic Washer 1.6x3.5x0.5 | 1 | 08 | 0C20163A | Traverse Damper | 4 |
| L03 | 0E04067A | M1.7x1.6 + Pan (Black Chromate) | 2 | 09 | 0C20317B | P Plate Sensor Block | 1 |
| L04 | 0E03245A | Plastic Washer 1.3x3.3x0.3 | 2 | 10 | 0C20176A | | . 2 |
| L05 | 0E04049A | M1x1.5 + Pan (Black Chromate) | 2 | 11 | 0C20171B | Traverse Move Gear | 2 |
| 1.06 | 0E04079A | M1.7x2 Countersunk (Black Chromate) | 5 | 12 | 0C20442B | Traverse Move Gear Spring | 2 |

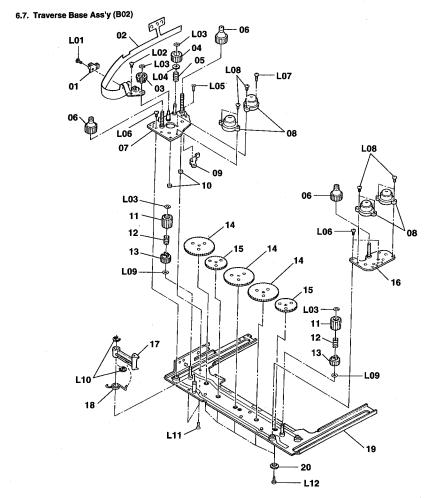
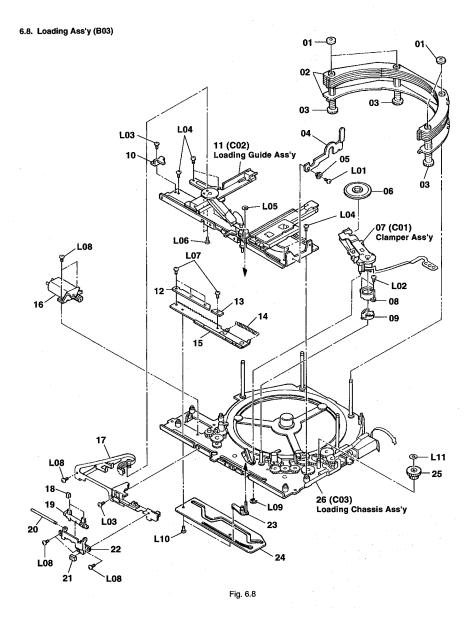


Fig. 6.7

| Schematic Ref. No. | Part No. | Description | Q'ty | Schematic Ref. No. | Part No. | Description | Q'ty |
|-----------------------|----------|-----------------------------------|------|-----------------------|----------|---|------|
| 13 | 0C20380A | Traverse Move Gear A | | L04 | 0E03235A | Washer 2x5x0.25 | 1 |
| 14 | 0C20167B | Lock Gear L | 3 | L05 | 0E04077A | BT1.7x2.2 Countersunk | i |
| 15 | 0C20168B | Lock Gear S | ž | | | (Black Chromate) | • |
| 16 | CG10113B | L Guide Plate R Sub Ass'v | 1 | L06 | 0E00922A | M2x3 + Pan (Black Chromate) | 3 |
| 17 | 0C20174A | Disc Lock Arm | 1 | L07 | 0E03943A | BT1.7x5 + Pan (Black Chromate) | ĭ |
| 18 | 0C20364A | Disc Lock Arm Spring | 1 | L08 | 0E00887A | M1.7x4 + Pan (Black Chromate) | 7 |
| 19 | CA10157A | Traverse Base Chassis Sub-1 Ass'v | 1 | L09 | 0E04101A | Cut Washer 2.1x3.5x0.125 | , |
| 20 | 0C20454A | Lock Gear Stopper | 5 | L10 | 0E00698A | E-Ring 2.5mm | 2 |
| L01 | 0E04074A | M2x2.2 + Pan (Black Chromate) | 1 | L11 | 0E04082A | M2x3.5 Countersunk (Black Chromate) | 2 |
| L02 | 0E04072A | M2x1.8 + Pan (Black Chromate) | 1 | L12 | 0E04096A | BT1.7x1.6 + Pan (Black Chromate) | 5 |
| 1.03 | OF04087A | Cut Washer 1 6v3 5v0 105 | À | | | - · · · · · · · · · · · · · · · · · · · | • |



6.9. Clamper Ass'y (C01)

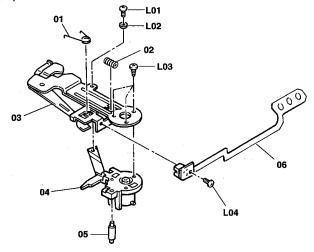


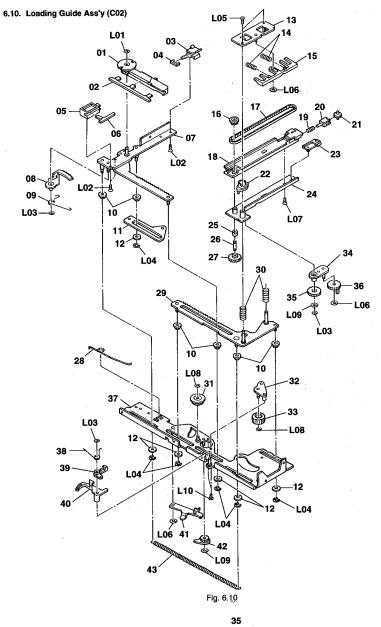
Fig. 6.9

6.8. Loading Ass'y (B03)

| | | • | |
|-----------------------|----------|----------------------------------|-------------|
| Schematic Ref. No. | Part No. | Description | Qʻty |
| B03 | CA10105A | Loading Ass'y | 1 |
| 01 | 0C20296C | | 4 |
| 02 | CG10147A | Disc Holder Ass'y | 6 |
| 03 | 0C20194B | Stocker Screw Gear | 4 |
| 04 | 0C20360A | | 1 |
| 05 | 0C20361A | Stocker Clutch Shaft | 1 |
| 06 | CG10140B | Clamper Plate Sub Ass'y | 1 |
| 07 | CA10106A | Clamper Ass'y | 1 |
| 08 | 0C20429A | Clamper Cam B | 1 |
| 09 | 0C20428A | Clamper Cam A | 1 |
| 10 | 0C20378E | P Arm Guide | 1 |
| 11 | _ | Loading Guide Ass'y | 1 |
| 12 | 0C20350D | | 1 |
| 13 | 0C20349B | Pre Arm Cam | 1 |
| 14 | 0C20293B | Spring L OP | 1 |
| 15 | CG10136C | | 1 |
| 16 | CA10150A | | 1 |
| 17 | BA09870A | | 1 |
| 18 | 0C10255A | Shutter Arm Cushion SL. | 2 |
| 19 | 0C20268B | Shut Arm | 1 |
| 20 | 0C20269A | | 1 |
| 21 | 0J08191A | Panel Spacer | 1 |
| 22 | 0C20266D | Shut Arm Plate | 1 |
| 23 | CG10137A | Plate PLS Sub Ass'y | 1 |
| 24 | 0C20401C | Loading Cam Plate | 1 |
| 25 | 0C20218A | Gear TBL 2 | 1 |
| 26 | _ | Loading Chassis Ass'y | 1 |
| L01 | 0E04074A | M2x2.2 + Pan (Black Chromate) | 1 |
| L02 | 0E04066A | M1.4x1.8 + Pan (Black Chromate) | 2 |
| L03 | 0E04099A | M2x2,5 + Pan | 2 2 5 |
| L04 | 0E00922A | M2x3 + Pan (Black Chromate) | 5 |
| L05 | 0E04086A | Cut Washer 1.2x3x0.125 | 1 |
| L06 | 0E04061A | BT1.4x2.5 + Pan (Black Chromate) | 2 |
| | | (, | |

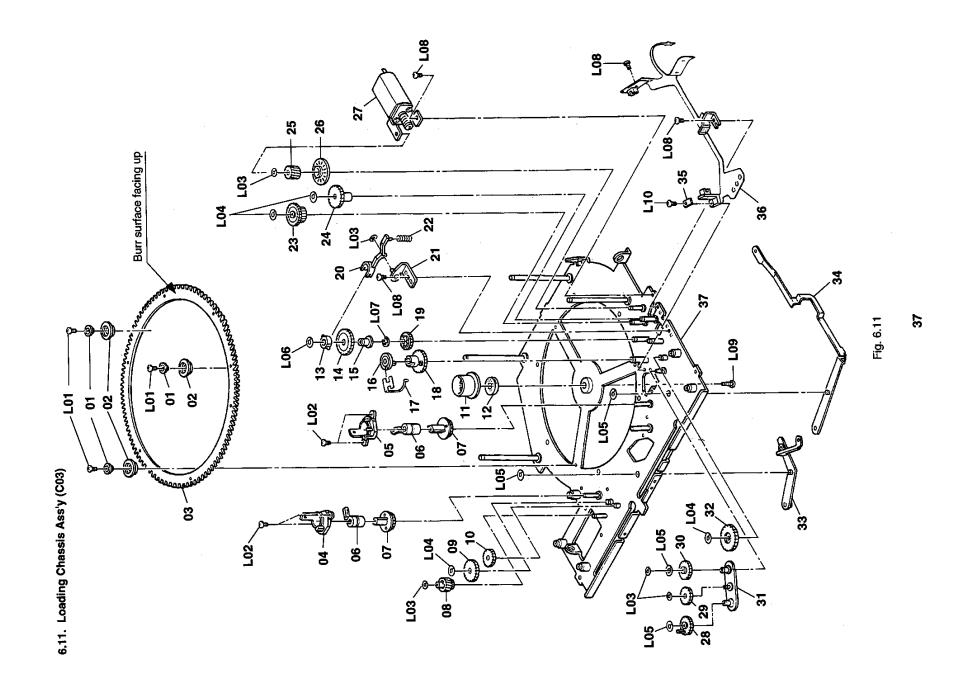
| Ref. No. | Part No. | Description |
|----------|----------|---------------------------------|
| L07 | 0E04064A | M1.4x1.4 + Pan (Black Chromate) |
| L08 | 0E04072A | M2x1.8 + Pan (Black Chromate) |
| L09 | 0E00165A | E-Ring 1.2mm |
| L10 | 0E03215A | M1.4x2.5 + Pan (Black Chromate) |
| L11 | 0E04089A | Cut Washer 2.1x5x0.125 |

| Schematic Ref. No. | Part No. | Description | Q'ty |
|-----------------------|----------|---------------------------------|------|
| C01 | CA10106A | Clamper Ass'y | 1 |
| 01 | 0C20439B | Clamp Lock Spring | 1 |
| 02 | 0C20440B | Clamp Arm Spring | 1 |
| 03 | CG10141C | Clamp Arm Sub Ass'y | 1 |
| 04 | 0C20430D | Clamp Cam M | 1 |
| 05 | 0C20431A | Shaft LC | 1 |
| 06 | BA09874A | Clamp FPC Ass'y | 1 |
| LO1 | 0E04049A | M1x1.5 + Pan (Black Chromate) | 1 |
| L02 | 0E04115A | Washer 1.1x2.5x0.2 | 1 |
| L03 | 0E04127A | BT1.4x2.2 + Pan | 3 |
| L04 | 0E04064A | M1.4x1.4 + Pan (Black Chromate) | 1 |



6.10. Loading Guide Ass'y (C02)

| Schematic Ref. No. | Part No. | Description | 5, |
|-----------------------|------------|--------------------------------------|----|
| C02 | | Loading Guide Ass'y | |
| 01 | 0C20416D | Loading Guide R B | |
| 02 | 0C20420C | Guide Rubber D B | |
| 03 | 0C20417C | Loading Guide R C | |
| 04 | 0C20421B | Guide Rubber D C | |
| 05 | 0C20415B | Loading Guide R A | |
| 06 | 0C20419C | Guide Rubber D A | |
| 07 | CG10119B | | |
| 08 | 0C20273C | P Arm Gear | |
| 09 | 0C20422B | P Arm Spring | |
| 10 | 0C20237C | Loading Roller L | |
| 11 | 0C20402A | Plate LG R | |
| 12 | 0C20284A | Loading Roller LU | |
| 13 | CG10118A | | |
| 14 | 0C20240B | Wedge Return Spring | |
| 15 | 0C20239E | Cam Wedge | |
| 16 | 0C20250A | Timing Gear | |
| 17 | 0C20249A | Timing Gear | |
| 18 | 0C20245E | Loading Guide L | |
| 19 | 0C20414A | T Pulley Spring | |
| 20 | 0C20247A | Pulley Fork P | |
| 21 | 0C20246A | Timing Pulley P | |
| 22 | 0C20252C | Wedge Sleeve | |
| 23 | | | |
| 24 | 0C20413A | Guide L Sub | |
| 25 | CG10121D | | |
| 25 26 | 0C20283A | Journal TDR | |
| | 0C20251A | Timing Gear Shaft | |
| 27 | 0C20253A | Timing Drive Gear | |
| 28 | 0C20423B | Pre Load Spring | |
| 29 | | Loading Plate STC Sub Ass'y | |
| 30 | 0C20359B | Spring L UD | 1 |
| - 31 | 0C20232A | Gear L CEN R | ٠ |
| 32 | CG10120A | | • |
| 33 | 0C20233A | Gear L SEN L | ٠ |
| 34 | CG10123C | TI Arm S Plate Sub Ass'y | |
| 35 | 0C20254A | Timing Idle Gear | • |
| 36 | 0C20263A | Timing AM R Gear | • |
| 37 | CG10122C | | • |
| 38 | 0C20427A | Shut Arm Spring | |
| 39 | 0C20403B | Shut Sub Arm | • |
| 40 | 0C20267E | Shut Arm Rack | • |
| 41 | 0C20212D | Pre Load Arm | • |
| 42 | 0C20371B | Pre Load Gear | • |
| 43 | 0C20294B | Bias Spring | ٠ |
| L01 | 0E04126A | Washer 1.6x3.5x0.2 | • |
| L02 | 0E04078A | BT2x2.5 Countersunk (Black Chromate) | 3 |
| L03 | 0E04086A | Cut Washer 1.2x3x0.125 | 3 |
| L04 | 0E00042A | E-Ring 1.5mm | € |
| L05 | 0E04073A | M2x2 + Pan (Black Chromate) | 2 |
| L06 | 0E04089A | Cut Washer 2.1x5x0.125 | 3 |
| L07 | 0E03447A | BT2x3 Countersunk (Black Chromate) | 1 |
| L08 | 0E04087A | Cut Washer 1.6x3.5x0.125 | 2 |
| L09 | 0E04090A | Cut Washer 2.6x5x0.125 | 2 |
| L10 | · 0E00919A | M1.7x2 + Pan (Black Chromate) | 2 |



6.11. Loading Chassis Ass'y (C03)

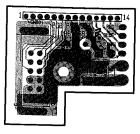
| | - | |
|-----------|----------------------|--|
| Schematic | | |
| Ref. No. | Part No. | Description |
| C03 | | Loading Chassis Ass'y |
| 01 | 0C20211A | Roller Collar |
| 02 | 0C20210A | Gear Roller |
| 03 | 0C20209B | Stocker Drive Gear |
| 04 | 0C20407A | Disc L Cam R |
| 05 | 0C20406A | Disc L Cam |
| 06 | 0C20404A | Disc Hook |
| 07 | 0C20405C | Disc Lock SG |
| 08 | 0C20225B | |
| 09 | 0C20226B | |
| 10 | 0C20227F | LDC P Gear |
| 11 | 0C20208A | Disc Lock Cap |
| 12 | 0C10218A | Center Ring Cushion SL |
| 13 | 0C20321B | Mold Gear STDL |
| 14 | 0C20220C | Gear STDL 2L |
| 15 | 0C20327B | Sleeve STDL 2 |
| 16 | 0C20286A | |
| 17 | 0C20455B | Lock Spring STC |
| 18 | 0C20221D | STCD Gear |
| 19 | 0C20219B | Gear STDL 2 |
| 20 | 0C20319B | Gear STDL Arm |
| 21 | CG10134B | |
| 22 | 0C20426A | Spring LDST CH |
| 23 | 0C20216A | Gear STDL 1 |
| 24 | 0C20217A | Gear TBL 1 |
| 25 | 0C20214A | Worm Wheel STL |
| 26 | 0C20215A | Gear PULS GW |
| 27 | CA10151A | W FF Motor Ass'y |
| 28 | 0C20264A | Timing AM R2 Gear |
| 29 | 0C20265A | Link Timing I Gear |
| 30 | 0C20262A | Timing AM Gear |
| 31 | CG10124B | TI Arm Plate Sub Ass'y |
| 32 | 0C20222A | Gear TBL 3 |
| 33 | CG10125A | |
| 34 | CG10135B | |
| 35 | 0C20476A | |
| 36 | BA09871A | |
| 37 | CA10142A | Loading Stocker Chassis Sub Ass'v |
| L01 | 0E04066A | |
| L02 | 0E04130A | M1.4x2.2 + Pan (Black Chromate) |
| L03 | 0E04087A | Cut Washer 1.6x3.5x0.125 |
| L03 | 0E04087A | Cut Washer 1.0x3.5x0.125 |
| L05 | 0E04099A | Cut Washer 2.1x5x0.125 Cut Washer 2.6x5x0.125 |
| L05 | 0E04090A | |
| L07 | | Cut Washer 3.3x5x0.125 |
| L08 | 0E00222A 0E04072A | |
| L09 | 0E04072A | |
| L10 | | |
| LIU | 0E04104A | M1.7x2.5Countersunk |
| | | |

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7. MOUNTING DIAGRAMS AND PARTS LIST



7.1. Main P.C.B. Ass'y 7.1.1. Main P.C.B. Ass'y — Power Supply Section



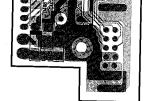


Fig. 7.1.1.1 Power Supply Section-Component Side View

Fig. 7.1.1.2 Power Supply Section-Dip Side View

7.1.2. Main P.C.B. Ass'y - Tuner Section

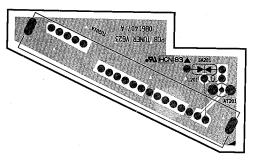


Fig. 7.1.2 Tuner Section-Component Side View

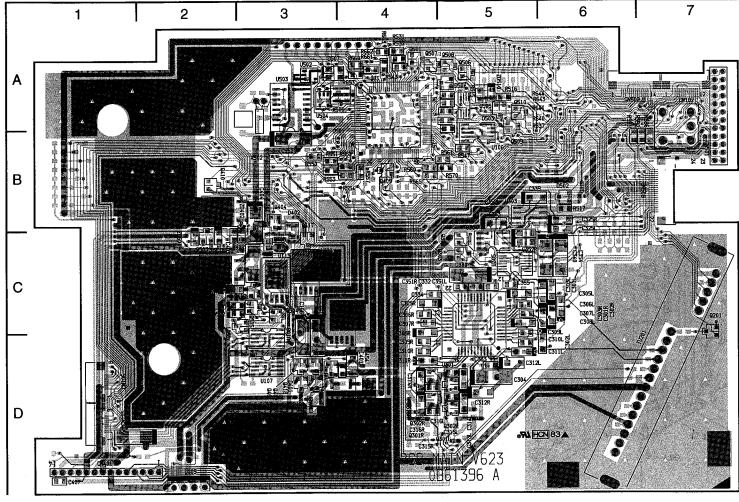


Fig. 7.1.3.1 Main Section-Component Side View

Semiconductor Location

| Cililotificator Ecoation | | | | | | | | | | |
|--------------------------|----------|----------|-------------|--|--|--|--|--|--|--|
| Ref. No. | Location | Ref. No. | Location | | | | | | | |
| U106 | B-5 | Q410 | B-2 | | | | | | | |
| U107 | D-3 | Q411 | C-2 | | | | | | | |
| U108 | D-3 | Q412 | C-2 | | | | | | | |
| U109 | D-2 | Q417 | C-3 | | | | | | | |
| U110 | C-3 | Q418 | D-3 | | | | | | | |
| U111 | C-3 | Q503 | C-2 | | | | | | | |
| U113 | C-3 | Q504 | C-3 | | | | | | | |
| U301 | C-5 | Q505 | C-3 | | | | | | | |
| U303 | B-5 | Q506 | A-6 | | | | | | | |
| U304 | C-5 | Q507 | A-4 | | | | | | | |
| U305 | C-5 | Q508 | A-5 | | | | | | | |
| U501 | A-4 | Q509 | A-5 | | | | | | | |
| U502 | A-3 | Q510 | A-5 | | | | | | | |
| U503 | A-3 | Q511 | C-3 | | | | | | | |
| U505 | A-5 | ZD401 | D-3 | | | | | | | |
| Q201 | C-7 | ZD402 | B-3 | | | | | | | |
| Q301L | D-5 | ZD403 | C-2 | | | | | | | |
| Q301R | D-4 | ZD501 | C-2 | | | | | | | |
| Q302L | D-5 | ZD502 | C-2 | | | | | | | |
| Q302R | D-4 | ZD503 | C-2 | | | | | | | |
| Q303 | C-5 | ZD510 | A- 5 | | | | | | | |
| Q304 | C-5 | ZD518 | C-2 | | | | | | | |
| Q401 | D-3 | D401 | D-3 | | | | | | | |
| Q402 | D-3 | D402 | B-3 | | | | | | | |
| Q403 | C-3 | D451 | D-3 | | | | | | | |
| Q404 | B-3 | D501 | A-4 | | | | | | | |
| Q405 | D-3 | D502 | B-6 | | | | | | | |
| Q407 | D-3 | D503 | A-5 | | | | | | | |
| Q408 | B-2 | D504 | A-5 | | | | | | | |
| Q409 | B-4 | D507 | A-3 | | | | | | | |
| | | | | | | | | | | |

Semiconductor Location Ref. No. | Location

| Ref. No. | Location |
|----------|----------|
| ZD504 | A-3 |
| ZD505 | B-2 |
| ZD506 | B-2 |
| ZD507 | B-2 |
| ZD508 | B-2 |
| ZD509 | B-2 |

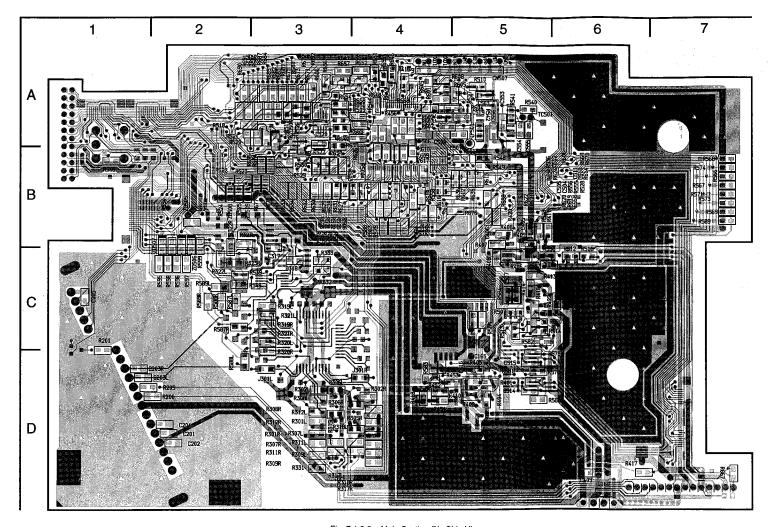


Fig. 7.1.3.2 Main Section-Dip Side View

7.2. Front P.C.B. Ass'y

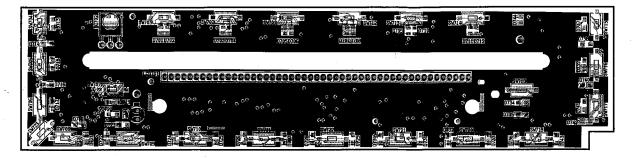


Fig. 7.2.1 Component Side View

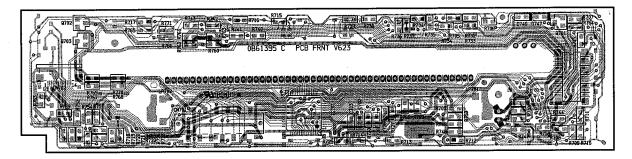


Fig. 7.2.2 Dip Side View

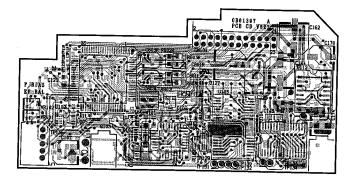


Fig. 7.3.1 Component Side View

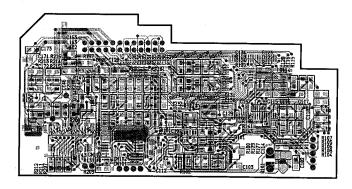


Fig. 7.3.2 PDip Side View

7.4. Power Amp. Main P.C.B. Ass'y

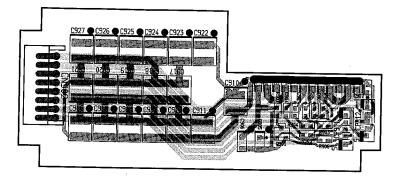


Fig. 7.4.1 Component Side View

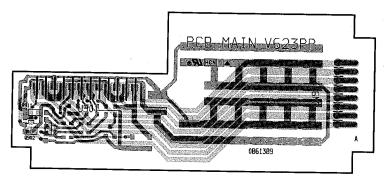


Fig. 7.4.2 Dip Side View

7.5. Power Amp. Sub P.C.B. Ass'y

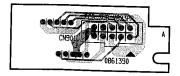


Fig. 7.5.1 Component Side View

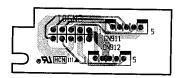


Fig. 7.5.2 Dip Side View

Abbreviations NOTES: 1.

TR—Transitor, SID – Silicon Diode, ZD – Zener Diode, Varicap – Variable Capacitance Diode
RK – Carbon Resistor, RM – Metal Film Resistor, RF – Fail Safe Type Resistor, RC – Cement Resistor
CE – Electrolytic Capacitor, CML – Mylar Capacitor, CC – Ceramic Capacitor, CPP – PP Capacitor,
CMM – Metalized Mylar Capacitor, CSP – Polystyrene Capacitor, C – Mica Capacitor,
CT – Tantalum Capacitor
Description of capacitor: 10 16V = 10µ 16V

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| | | | | | Cabanatia | | | Schematic | | | | |
|-----------------------|----------------------|----------|------------------|----------------------|-----------------------|----------------------|--|----------------------|----------------------|----------|------------------|----------------------|
| Schematic Ref. No. | Part No. | De | escription | on | Schematic Ref. No. | Part No. | Description | Ref. No. | Part No. | D | escripti | on |
| R626 | 0B25587A | RK | 100K | 1/10W J* | C403 | 0B43221A | CC 0.047 25V K* | D707 | 0B10956A | | LT1E4 | |
| R627,628 | 0B25563A | RK | 10K | 1/10W J* | C404 | 0B42790A | CE 100 6.3V* | D708 D709 | 0B10974A 0B10956A | | LT1H4 | |
| R629,630 R631.632 | 0B25563A 0B25563A | | 10K 10K | 1/10W J* 1/10W J* | C405 C406 | 0B43064A 0B43063A | CC 0.01 50V J* CC 1000P 50V J* | D709 D710 | 0B10956A | | LT1H4 | |
| R633 | 0B25563A | | 10K | 1/10W J* | C407 | 0B43092A | CC 0.1 25V Z* | D711 | 0B10956A | LED | LT1E4 | IOA* |
| R634 | 0B25539A | RK | 1K | 1/10W J* | C409 | 0B43092A | CC 0.1 25V Z* | D712,713 | 0B10974A | | LT1H4 | |
| R635,636 | 0B25563A | | 10K | 1/10W J* | C453,454 | 0B42781A | CE 10 16V* | D714,715 D716,717 | 0B10974A 0B10974A | | LT1H4 | |
| R637,638 | 0B25563A 0B25539A | | 10K 1K | 1/10W J* 1/10W J* | C503 C504,505 | 0B43064A 0B43200A | CC 0.01 50V J* CC 220P 50V J* | D718,717 | 0B10974A | | LT1H4 | |
| R639 R640,641 | 0B25563A | | 10K | 1/10W J* | C504,505 C506,507 | 0B43064A | CC 0.01 50V J* | D720,721 | 0B10974A | | LT1H4 | |
| R642,643 | 0B25563A | | 10K | 1/10W J* | C508 | 0B43064A | CC 0.01 50V J* | D722,723 | 0B10974A | | LT1H4 | |
| R644,645 | 0B25563A | | 10K | 1/10W J* | C510,511 | 0B43064A | CC 0.01 50V J* | D724,725 D726,727 | 0B10974A 0B10974A | | LT1H4 | |
| R646,647 R648,649 | 0B25539A 0B25539A | | 1K 1K | 1/10W J* 1/10W J* | C512,513 C514,515 | 0B43064A 0B43064A | CC 0.01 50V J* CC 0.01 50V J* | D726,727 D728,729 | 0B10974A | LED | | |
| R650,651 | 0B25539A | | 1K | 1/10W J* | C519,520 | 0B43064A | CC 0.01 50V J* | D730,731 | 0B10974A | LED | | |
| R652 | 0B25539A | RK | 1K | 1/10W J* | C552 | 0B42783A | CE 22 16V* | D732,733 | 0B10974A | | LT1H4 | |
| R653 | 0B25563A | RK | 10K | 1/10W J* | C553 | 0B43078A | CC 2200P 50V K* | D734,735 | 0B10974A 0B10974A | LED | LT1H4 | |
| R654,655 | 0B25539A 0B25539A | RK RK | 1K 1K | 1/10W J* 1/10W J* | C554 C555 | 0B43117A 0B43115A | CC 39P 50V J* | D736,737 D738,739 | 0B10974A | | LT1H4 | |
| R656,657 R658,659 | 0B25539A | RK | 1K | 1/10W J* | C556 | 0B43064A | CC 0.01 50V J* | D740,741 | 0B10974A | | LT1H4 | |
| R660,661 | 0B25563A | RK | 10K | 1/10W J* | C557,558 | 0B42806A | CC 0.22 16V Z* | D742,743 | 0B10974A | LED | | |
| R662,663 | 0B25563A | RK | 10K | 1/10W J* | CN105 | 0B84906A | 9P F Connector* | D746,747 | 0B10971A | SID | MA11 | 2* 1/10W J* |
| R665,666 | 0B25563A | RK | 10K | 1/10W J* | CN106 | 0B84902A 0B84903A | 8P F Connector* 12P F Connector* | R702 R703 | 0B20671A 0B25507A | RK RK | 1 47 | 1/10W J* |
| R667,668 R669,670 | 0B25563A 0B25587A | RK | 10K 100K | 1/10W J* 1/10W J* | CN107 CN501 | 0B84871A | 24P Connector Socket | R704,705 | 0B25523A | BK | 220 | 1/10W J* |
| R671,672 | 0B25587A | RK | 100K | 1/10W J* | CN502 | 0B84907A | 14P F Connector* | R706 | 0B25525A | RK | 270 | 1/10W J* |
| R673,674 | 0B25587A | RK | 100K | 1/10W J* | CN508 | 0B84879A | 22P F Connector* | R707 | 0B25529A | RK | 390 | 1/10W J* |
| R675,676 | 0B25587A | RK | 100K | 1/10W J* | | 0J08175C | Heat Sink Power (1) | R708 R709 | 0B25531A 0B25535A | RK RK | 470 680 | 1/10W J* 1/10W J* |
| R677,678 R679,680 | 0B25587A 0B25587A | RK | 100K 100K | 1/10W J* 1/10W J* | | — Tuner — | | R710 | 0B25537A | RK | 820 | 1/10W J* |
| R681,682 | 0B25587A | RK | 100K | 1/10W J* | | 141101 | | R711 | 0B25541A | RK | 1.2K | 1/10W J* |
| R683,684 | 0B25587A | RK | 100K | 1/10W J* | L201 | 0B51337A | | R712 | 0B25547A | RK | 2.2K | 1/10W J* |
| R685,686 | 0B25587A | RK | 100K | 1/10W J* | SA201 | 0B12655A | SID DSP-201M Tuner Pack MX-A055 | R713 R714 | 0B25553A 0B25567A | RK RK | 3.9K 15K | 1/10W J* 1/10W J* |
| R687,688 R689,690 | 0B25587A 0B25587A | RK RK | 100K 100K | 1/10W J* 1/10W J* | TU201 | 0B90796A | (USA, CAN) | R715,716 | 0B25523A | RK | 220 | 1/10W J* |
| R691,692 | 0B25587A | | 100K | 1/10W J* | | 0B90797A | Tuner Pack MX-J055 | R717 | 0B25525A | RK | 270 | 1/10W J* |
| TC501 | 0B42787A | Trimr | ner 10f | D* | | | (JPN) | R718 | 0B25529A | RK | 390 | 1/10W J* |
| C159 | 0B42814A | CE | 33 25 | | | 0B84892A | ANT Jack (1) | R719 R720 | 0B25531A 0B25535A | RK RK | 470 680 | 1/10W J* 1/10W J* |
| C160 C161 | 0B43064A 0B42789A | CC | 0.01 5 47 16 | | | 0J08170A | Tuner P.C.B. Spacer (4) | R721 | 0B25535A | RK | 820 | 1/10W J* |
| C166 | 0B42789A | CE | 47 16 | | | - Power S | Supply — | R722 | 0B25541A | RK | 1.2K | 1/10W J* |
| C201,202 | 0B43064A | CC | 0.01 5 | 60V J* | | | | R723 | 0B25547A | RK | 2.2K | 1/10W J* |
| C203L,R | 0B42791A | | 0.027 | | D403 | 0B10946A | | R724 R725 | 0B25553A 0B25567A | RK | 3.9K 15K | 1/10W J* 1/10W J* |
| | 0B43235A | | , CAN) | 50V K* (JPN) | D406,407 D408 | 0B10946A 0B10946A | SID 1SR154-400* SID 1SR154-400* | R726,727 | 0B25579A | BK | 47K | 1/10W J* |
| C204,205 | 0B43064A | | 0.015 | | C402 | 0B42786A | CE 470 16V* | R728,729 | 0B25579A | RK | 47K | 1/10W J* |
| C301L,R | 0B42785A | CE | 4.7 16 | 5V* | C408 | 0B43092A | CC 0.1 25V Z* | R730 | 0B25579A | RK | 47K | 1/10W J* |
| C302L,R | 0B42785A | | 4.7 16 | | CN901 | 0B84924A | Connector Header 14P | R732,733 R734,735 | 0B25519A 0B25519A | RK | 150 150 | 1/10W J* 1/10W J* |
| C303L,R C304 | 0B42785A 0B42783A | | 4.7 16 22 16 | | CN904 | 0B84861A 0B84885B | BB Connector Plug 10P 6P W Ass'y Plug (1) | R736,737 | 0B25519A | RK | 150 | 1/10W J* |
| C305L,R | 0B42785A | CE | 4.7 16 | | | 0E04046A | M2.6x3 + Pan (1) | R738,739 | 0B25519A | RK | 150 | 1/10W J* |
| C306L,R | 0B43071A | CC | 470P | 50V J* | | 0J08129A | P.C.B. Holder C (1) | R740,741 | 0B25519A | RK | 150 | 1/10W J* |
| C307L,R | 0B43238A | | 0.068 | | | 0J08190A | P.C.B. Spacer Spring Out | R742,743 R744.745 | 0B25519A 0B25524A | RK RK | 150 240 | 1/10W J* 1/10W J* |
| C308L,R C309L,R | 0B42785A 0B43079A | | 4.7 16 | 50V K* | | | (1) | R746,747 | 0B25524A | BK | 240 | 1/10W J* |
| C310L,R | 0B43083A | | | 50V K* | | | | R748,749 | 0B25524A | RK | 240 | 1/10W J* |
| C311L,R | 0B42780A | CE | 1 35V | • | 7.2. Front F | P.C.B. Ass'y | | R750,751 | 0B25524A | RK | 240 | 1/10W J* |
| C312L,R | 0B42781A | | 10 16 | | Schematic | | | R752,753 R754,755 | 0B25524A 0B25524A | RK RK | 240 240 | 1/10W J* 1/10W J* |
| C313L,R C314L,R | 0B42785A 0B42785A | | 4.7 16 4.7 16 | | Ref. No. | Part No. | Description | R758,759 | 0B25525A | RK | 270 | 1/10W J* |
| C315L,R | 0B43080A | | | 50V K* | | BA09861A | Front P.C.B Ass'y | R760,761 | 0B25513A | RK | 82 | 1/10W J* |
| C316L,R | 0B43080A | CC | 4700F | 50V K* | | | (USA, CAN) | R762,763 | 0B25513A | RK | 82 | 1/10W J* |
| C317,318 | 0B43064A | | 0.01 5 | | | BA09867A | Front P.C.B. Ass'y (JPN) | R764,765 R767,768 | 0B25539A 0B25503A | RK | 1K 33 | 1/10W J* 1/10W J* |
| C325L,R C331 | 0B42785A 0B42789A | | 4.7 16 47 16 | | U701 | 0B10970A | IC NJU3715G* | R769,770 | 0B25503A | RK | 33 | 1/10W J* |
| C332,333 | 0B42769A 0B43064A | | 0.01 5 | | IC701 | 0B10970A | IC LC75823W* | R771 | 0B25539A | RK | 1K | 1/10W J* |
| C334 | 0B43064A | CC | 0.01 5 | 50V J* | IC702 | 0B10856A | Remote Sensor SBX8035 | C701 | 0B40157A | CE | 47 6. | |
| C339 | 0B42781A | | 10 16 | | Q701,702 | 0B10972A | TR 2SD1757K* | C702 | 0B43063A 0B43092A | CC | 0.1 2 | P 50V J* |
| C340 C351L,R | 0B42783A 0B43063A | | 22 16 | V* > 50V J* | Q703 D701 | 0B10972A 0B10956A | TR 2SD1757K* LED LT1E40A* | C703,704 LCD701 | 0B90800A | LCE | | J V Z |
| C352L,R | 0B42785A | CE | 4.7 16 | 50V 5 | D701 | 0B10930A | LED LT1H40A* | LP701,702 | 0B90802A | Lam | p 115m | |
| C353 | 0B42781A | CE | 10 16 | ٧* | D703 | 0B10956A | LED LT1E40A* | CN701 | 0B84758A | 12P | Conne | ctor |
| C354 | 0B42783A | | 22 16 | | D704 | 0B10974A | LED LT1H40A* | CN702 | 0B84907A | | A, CAN F Coni | |
| C355 C401 | 0B43064A 0B43064A | | 0.01 5 | | D705 D706 | 0B10956A 0B10974A | LED LT1E40A* LED LT1H40A* | CN/02 | UD849U/A | JPI | | HUIOI |
| O401 | JD43004A | 00 | J.01 C | JU 7 U | 2700 | 0D10014A | | | | ν | • | |

| Schematic Ref. No. | Part No. | Description |
|-----------------------|--|---|
| | Part No. 0B70271A 0J07985B | Description Tact Switch |
| | 0J07987B | LCD Lens (1) |
| | 0J07988A 0J08171A 0J08193A 0J08200A | LCD Reflector (1) REM Cushion (1) Conductor Sheet A (1) LCD W Face (1) |

| Schematic Ref. No. | Part No |) . | Descri | ption | Schemati Ref. No. | | | Donorint | ian |
|-----------------------|------------------------|------------|------------------------|----------------------|----------------------|----------------------|--------|-------------------------|----------------------|
| SW701,70 | | _ | act Swite | | | Part No | | Descript | |
| SW703,70 | | | act Swite | | R145 R147 | 0B25571/ 0B25612/ | | | 1/10W J* 1/10W J* |
| SW705,70 | 6 0B70271 | A Ta | act Swite | h | R177 | 0B25547/ | | | 1/10W J* |
| SW707,70 | | | act Switch | | R179,180 | | | | 1/10W J* |
| SW709,71 SW711,71 | 0 0B70271 | | act Swite | | R181 | 0B25573/ | A RK | 27K | 1/10W J* |
| SW713,71 | 2 0B70271 4 0B70271 | | act Swite act Swite | | R194 | 0B25563/ | | | 1/10W J* |
| SW715,71 | | | act Switch | | R195 | 0B25575/ | | 33K | 1/10W J* |
| SW717,71 | | | act Switch | | R196 R197 | 0B25587A 0B21321A | | 100K | 1/10W J* 1/10W F* |
| SW719,72 | | | act Switch | h | R200 | 0B25579A | | 47K | 1/10W J* |
| SW721,72 | | | ect Switc | | R207 | 0B20673A | | 1.5 | 1/10W* |
| SW723 | 0B70271 0J07985 | | ct Switc | | R208 | 0B25563A | | 10K | 1/10W J* |
| | 0307986 | | nulator | Sheet (1) | R209 | 0B25515A | | 100 | 1/10W J* |
| | 0307987 | | D Holde D Lens | 9T (1) (1) | R210 | 0B25563A | | 10K | 1/10W J* |
| | 0J07988 | À LC | D Refle | ctor (1) | R211,212 R801L,R | 0B20673A | | 1.5 | 1/10W* |
| | 0J08171/ | A RE | M Cust | ion (1) | R802L,R | 0B26153A 0B26153A | | 12K 12K | 1/10W F* 1/10W F* |
| | 0J08193/ | A Co | nductor | Sheet A (1) | R803L,R | 0B26153A | | 12K | 1/10W F* |
| | 0J08200A | \ LC | D W Fa | ce (1) | R804L,R | 0B26175A | | 100K | 1/8W F* |
| | | | | | R805L,R | 0B26103A | | 100 | 1/8W F* |
| 7.3. CD P.0 | R Agg'u | | | | C101 | 0B42794A | | 100 6.3 | |
| | J.D. A05 y | | | | C102,103 | 0B43092A | | 0.1 25\ | |
| Schematic | | | _ | * | C104 C105 | 0B42500A 0B43092A | | 2.2 16\ | /* / |
| Ref. No. | Part No. | | Descrip | | C106,107 | 0B43092A | | 0.1 25\ 33P 50 | |
| | BA09857 | A CE | P.C.B. | Aşs'y | C109 | 0B42622A | | 2.2 16 | |
| U101 | 0010001 | | | | C110 | 0B43092A | | 0.1 25 | |
| U102 | 0B10691A 0B10948A | | | 2521Q* | C111 | 0B42622A | CC | 2.2 16V | |
| U103 | 0B10948A | | | 2587Q* 972FP* | C112 | 0B43080A | CC | 4700P | 50V K* |
| U104 | 0B10942A | | | 40BFP-Y* | C113 C114 | 0B43224A | CC | 1500P | |
| U105 | 0B10953A | | | V53FU* | C114 C115 | 0B43090A 0B43216A | CC | 47P 50 | |
| Q101 | 0B10731A | TR | 2SB1 | | C116 | 0B43092A | CC | 330P 50 0.1 25V | |
| Q102 | 0B10882A | | | 14TKA* | C117 | 0B43216A | cc | 330P 50 | .i* |
| Q103 | 0B10652A | TR | | 144TK* | C118 | 0B43207A | CC | 680P 50 | OV J* |
| Q104 D101 | 0B14013A 0B10539A | TR | | 44EK* | C119 | 0B43092A | CC | 0.1 25V | Z* |
| D102 | 0B10539A | | | 52WK* 52WA* | C120 | 0B43064A | CC | 0.01 50 | |
| L101 | 0B51300A | | uctor 10 | | C121 C122 | 0B42793A 0B43200A | CE | 0.47 50 | |
| L102,103 | 0B50287A | | I 120uH | | C123 | 0B43200A | CC | 220P 50 1500P 5 | |
| X101 | 0B90794A | | sonator* | 16.93MHz | C124 | 0B43221A | cc | 0.047 2 | |
| VR101,102 | 0B30212A | | ni VR 22 | | C125 | 0B42792A | ĊE | 47 6.3V | |
| R101 R102 | 0B21321A 0B25571A | | | 1/10W F* | C126 | 0B43092A | CÇ | 0.1 25V | |
| R103 | 0B25571A | | 22K 130K | 1/10W J* 1/10W J* | C127 | 0B42798A | CE | 330 6.3\ | |
| R104 | 0B25595A | RK | 220K | 1/10W J* | C128,129 C132,133 | 0B43092A | CC | 0.1 25V | |
| R105,106 | 0B25562A | RK | 9.1K | 1/10W J* | C132, 133 | 0B43092A 0B43092A | CC | 0.1 25V 0.1 25V | |
| R107,108 | 0B25556A | RK | 5.1K | 1/10W J* | C135,136 | 0B43207A | CC | 680P 50 | |
| R109 | 0B25514A | RK | 91 | 1/10W J* | C137,138 | 0B43207A | CC | 680P 50 | |
| R110 R111 | 0B25575A | RK | 33K | 1/10W J* | C139,140 | 0B43084A | CC | 0.033 50 | |
| R112 | 0B25589A 0B25575A | RK RK | 120K | 1/10W J* | C141 | 0B43083A | CC | 0.022 50 | V K* |
| R113 | 0B25571A | RK | 33K 22K | 1/10W J* 1/10W J* | C144 C145 | 0B42798A | CE | 330 6.3\ | |
| R114 | 0B25575A | RK | 33K | 1/10W J* | C145 | 0B43092A 0B43221A | CC | 0.1 25V | |
| R115 | 0B25563A | RK | 10K | 1/10W J* | C147 | 0B43064A | cc | 0.047 25 0.01 50V | |
| R116 | 0B25587A | RK | 100K | 1/10W J* | C148 | 0B43092A | CC | 0.1 25V | |
| R117 R118 | 0B25611A | RK | 1M | 1/10W J* | C149 | 0B42500A | CC | 2.2 16V* | _ |
| R119,120 | 0B25563A 0B25551A | RK | 10K | 1/10W J* | C157 | 0B43080A | CC | 4700P 5 | DV K* |
| R121,122 | 0B25574A | RK | 3.3K 30K | 1/10W J* | C162 | 0B42796A | CE | 220 10V | |
| R123,124 | 0B25560A | RK | 7.5K | 1/10W J* 1/10W J* | C163 | 0B43092A | CC | 0.1 25V | |
| R125,126 | 0B25567A | RK | 15K | 1/10W J* | C801L,R C802L,R | 0B43196A 0B43207A | CC | 150P 50 | |
| R127,128 | 0B25560A | RK | 7.5K | 1/10W J* | C803L,R | 0B42795A | | 680P 50° 22 6.3V* | ۷ J^ |
| R129,130 | 0B25579A | RK | 47K | 1/10W J* | CN101 | 0B84872A | | Connect | or* |
| R131,132 | 0B25569A | RK | 18K | 1/10W J* | CN102 | 0B84874A | 6P F | Connecto | r* |
| R133 R134 | 0B25563A 0B25599A | RK | 10K 330K | 1/10W J* | CN103 | 0B84908A | 13P F | Connect | or* |
| R135 | 0B25589A | RK | 330K 51K | 1/10W J* 1/10W J* | CN104 | 0B84870A | 24P C | onnector | Header |
| R136 | 0B25584A | RK | 75K | 1/10W J* | TP136 | 0B81469A 0E04046A | 5P S-I | Post | |
| R138 | 0B25515A | RK | 100 | 1/10W J* | | | PCP | 3 + Pan (. Holder A | (2) |
| R139 | 0B25563A | RK | 10K | 1/10W J* | | 5000 12/D | | . noider A | (2) |
| R141 R142 | 0B25555A | RK | 4.7K | 1/10W J* | | | | | |
| R143 | 0B25571A 0B25590A | RK RK | 22K | 1/10W J* | | | | | |
| | 0B25573A | RK | 130K 27K | 1/10W J* 1/10W J* | | | | | |
| | | | | ., 1011 0 | | | | | |

Schematic Ref. No.

[Power Amp. Ass'y]

7.4. Power Amp. — Main P.C.B. Ass'y

| Schematic | | | |
|-----------|----------|--------------------|------|
| Ref. No. | Part No. | Description | |
| | BA09845A | Main P.C.B. Ass'y | |
| U901 | 0B17086A | IC TA8260H | |
| R902,903 | 0B25539A | RK 1K 1/10V | V.I* |
| R904,905 | 0B25539A | RK 1K 1/10V | |
| R911 | 0B25539A | RK 1K 1/10V | v J* |
| C901,902 | 0B43240A | CC 0.22 25V Z* | |
| C903,904 | 0B43240A | CC 0.22 25V Z* | |
| C905 | 0B42781A | CE 10 16V* | |
| C906 | 0B42780A | CE 1 35V* | |
| C907 | 0B43092A | CC 0.1 25V Z* | |
| C910 | 0B42815A | CE 47 20V* | |
| C911 | 0B43064A | CC 0.01 50V J* | |
| CN902 | 0B84867A | Post-S 8P XH (Whit | e) |
| | 0B84904A | 5P Ribbon Cable A | (i) |
| | 0B84905A | 5P Ribbon Cable B | |
| | | | |

| 7.5. Sub P.C.B. Ass'y | | | | | | |
|-----------------------|----------------------------------|---|--|--|--|--|
| Schematic Ref. No. | Part No. | Description | | | | |
| | BA09846A | Sub P.C.B. Ass'y | | | | |
| R930 C930 CN901 | 0B25491A 0B43064A 0B84860A | RK 10 1/10W CC 0.01 50V J* BB Connector Socke | | | | |

8. IC BLOCK DIAGRAMS

U501 HD64F3437TF16 (System Control MPU)

| Pin No. | Pin Name | Signal Name | I/O | Function |
|---------|----------|-------------|--|--|
| 1 | RES | RESET | | System reset signal. |
| 2 | XTAL | XTAL | _ | System clock (16 MHz). |
| 3 | EXTAL | EXTAL | - | System clock (16 MHz). |
| 4 | VCCB | VCCB | <u> </u> | +5V. |
| - 5 | MD1 | MD1 | | MPU mode select signal-1. |
| 6 | MD0 | MD0 | 1 | MPU mode select signal-2. |
| 7 | CLOCK | CLOCK | 1 | Clock pulse for counting the "Clock". |
| | FVPP/ST | FVPP/ST | 1 | VPP (+5V) signal. |
| 9 | vcc | vcc | += | +5V. |
| | | | | Disc lock pin position (up/down) detecting signal. |
| 10 | LOCK-PIN | LOCK-PIN | 1 | H: Up position (disc locked) |
| 11 | TRPOSMOV | TRPOSMOV | T | Traverse position (front/rear) detecting signal. H: Rear position. |
| 12 | CLKIN | CLKIN | 1 | Clock pulse from CDC. |
| 13 | DATAIN | DATAIN | 1 | Data signal from CDC. |
| 14 | CLR | CLR | 0 | Reset signal to clock IC. |
| 15 | VSS | VSS | T = | GND. |
| 16 | MTR1 | MTR1 | 0 | Traverse mechanism motor drive signal-1. |
| 17 | P96 | P96 | 1 | (Not used.) |
| 18 | MSTLD1 | MSTLD1 | 0 | Loading belt/stocker motor drive signal-1. |
| 19 | MSTLD2 | MSTLD2 | 0 | Loading belt/stocker motor drive signal-2. |
| 20 | ST-PLAY | ST-PLAY | T | Stocker play position signal. |
| 21 | ST-REF | ST-REF | T | Stocker home position signal. H: Home position. |
| 22 | MTR2 | MTR2 | 0 | Traverse mechanism motor drive signal-2. |
| 23 | BSENS | BSENS | 1 | Battery voltage sensing signal. |
| 24 | ASENS | ASENS | 17 | ACC voltage sensing signal. |
| 25 | SCOR | SCOR | T | Sub-Q interrupt signal from DSP (Digital Signal Processor) IC. |
| 26 | CLAMPER | CLAMPER | 1 | Clamper plate clamping signal. H: Clamping |
| 27 | TEMP | TEMP | 1 | (Not used.) |
| 28 | REMIN | REMIN | T | Remote control signal. |
| 29 | ST-PLS | ST-PLS | 1 | Stocker pulse. |
| 30 | LD-PLT1 | LD-PLT1 | ī | Loading cam plate position signal-1, |
| 31 | LD-PLT2 | LD-PLT2 | ī | Loading cam plate position signal-2. |
| 32 | TRUD-PLS | TRUD-PLS | 1 | Traverse up/down pulse. |
| 33 | LDC-PLS | LDC-PLS | T | Loading belt/stocker motor turning pulse. |
| 34 | P-ARM1 | P-ARM1 | T | Loading guide position signal-1. |
| 35 | P-ARM2 | P-ARM2 | T | Loading guide position signal-2. L: No disc |
| 36 | AVREF | AVREF | - | +5V. |
| 37 | AVCC | AVCC | T = | - +5V. |
| 38 | KIO | KI0 | \top | |
| 39 | KI1 | KI1 | 1 | Key input signal-1. (Analog port) |
| | | | | |

| Pin No. | Pin Name | Signal Name | 1/0 | Function |
|---------|----------|-------------|-----|---|
| 40 | AREA | AREA | i | Area setting signal. (Analog port) |
| 41 | MODEL | MODEL | ī | Model setting signal. (Analog port) |
| 42 | S-METER | S-METER | ı | Reception signal level. (Analog port) |
| 43 | TE | TE | ı | (Not used.) |
| 44 | DA0 | DA0 | ı | (Not used.) |
| 45 | DA1 | DA1 | ı | (Not used) |
| 46 | AVSS | AVSS | _ | GND. |
| 47 | SHUTTER | SHUTTER | ı | Shutter ON/OFF signal. |
| 48 | LDC-REF | LDC-REF | -i | Loading cam reference position detecting pulse. |
| 49 | AD-REF | AD-REF | 0 | +5V ON/OFF signal for A/D conversion circuit. |
| 50 | BEEP | BEEP | 0 | Beep sound signal. |
| 51 | VRCE | VRCE | 0 | Chip enable signal for electronic volume IC. |
| 52 | CDC/AUX | CDC/AUX | 0 | CDC/AUX source select signal. |
| 53 | ST | ST | Ι | Stereo signal from tuner circuit. |
| 54 | DATAI | DATAI | Ţ. | Serial data from tuner circuit. |
| 55 | ST/MONO | ST/MONO | 0 | Forcible monaural signal. |
| 56 | TCE | TCE | 0 | Chip enable signal for tuner circuit. |
| 57 | CLK | CLK | 0 | Clock to tuner, electronic volume and display circuits. |
| 58 | DATAO | DATAO | 0 | Serial data to tuner, electronic volume and display circuits. |
| 59 | VCC | VCC | - | +5V. |
| 60 | MGUIDE1 | MGUIDE1 | 0 | Loading cam motor drive signal-1. |
| 61 | MGUIDE2 | MGUIDE2 | 0 | Loading cam motor drive signal-2. |
| 62 | CDC | CDC | O | CD changer mute enable signal. |
| 63 | ACCCONT | ACCCONT | 0 | ACC control signal. |
| 64 | DSPSEL | DSPSEL | 0 | DSP IC select signal. |
| 65 | CDCRST | CDCRST | 1/0 | CDC reset signal. |
| 66 | CLKOUT | CLKOUT | 0 | Clock to CDC. |
| 67 | DATAOUT | DATAOUT | 0 | Serial data to CDC. |
| 68 | MUTE | MUTE | 0 | Audio mute signal. |
| 69 | AMP-ON | AMP-ON | 0 | Power amp. ON/OFF control signal. |
| 70 | VSS | vss | 1 | GND. |
| 71 | VSS | VSS | _ | GND. |
| 72 | LDON | LDON | 0 | Laser ON signal. |
| 73 | ENCLK | ENCLK | 0 | DSP IC enable clock. |
| 74 | IR | IR | 0 | IR ON signal. |
| 75 | FOK | FOK | | Focus OK signal. |
| 76 | SCLK | SCLK | 0 | Clock to read servo parameter from DSP IC. |
| 77 | GFS | GFS | 1 | GFS OK signal from DSP IC. |
| 78 | LSICLK | CDCLK | 0 | Clock for reading DSP command. |
| 79 | FVCC | FVCC | 0 | +5V ON/OFF signal for front panel circuit. |

| Pin No. | Pin Name | Signal Name | 1/0 | Function |
|---------|----------|-------------|----------|--|
| 80 | LSISENS | SENSE | 1 | DSP IC sensing signal. |
| 81 | LSIDATA | DATA | 0 | DSP command data. |
| 82 | LSIXLT | XLAT | 0 | DSP command latch pulse. |
| 83 | CDRST | CDRES | 0 | DSP IC reset signal. |
| 84 | saso | SQSO | ī | Sub-Q data from DSP IC. |
| 85 | SQCK | SQCK | 0 | Sub-Q clock to DSP IC. |
| 86 | ICE | ICE | 0 | Chip enable signal for LED driver IC. |
| 87 | INH | INH | 0 | LCD display inhibit signal. |
| 88 | LCE | LCE | 0 | Chip enable signal for LCD driver IC. |
| 89 | SYNC | SYNC | 1/0 | Synchronous operation control signal. |
| 90 | P.ON | P.ON | 0 | Amp. circuit/driver circuit power ON/OFF control signal. |
| 91 | LAMP | LAMP | 0 | Front panel lamp power ON/OFF control signal. |
| 92 | vss | VSS | — | GND. |
| 93 | CDON | CDON | 0 | CD Servo circuit power ON/OFF control signal. |
| 94 | MECHON | MECHON | 0 | Mechanism sensor circuit power ON/OFF control signal. |
| 95 | REMOTE | REMOTE | 0 | Power amp. remote control signal. |
| 96 | P.ANT | P.ANT | 0 | Power antenna control signal. |
| 97 | TXD1 | TXD1 | 1 | (Not used.) |
| 98 | RXD1 | RXD1 | T | (Not used.) |
| 99 | SCK1 | SCK1 | ı | (Not used.) |
| 100 | RESO | RESO | — | (Not used.) |

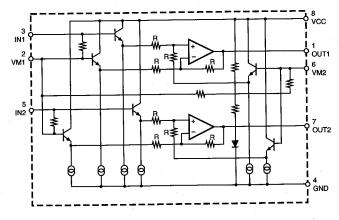


Fig. 8.1 Ground Isolation Amp. BA3121F (U303, 304)

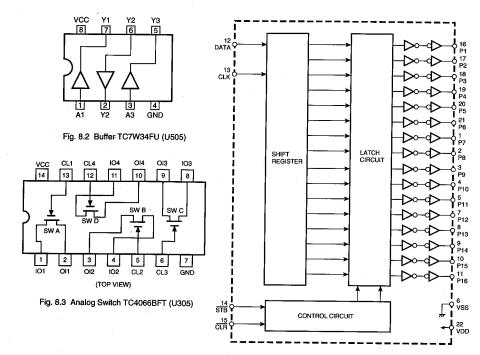


Fig. 8.4 LED Driver NJU3715G (U701)

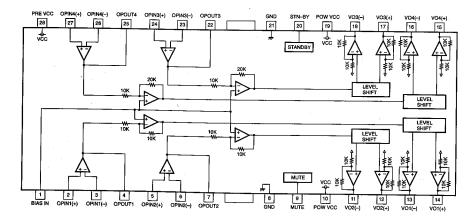


Fig. 8.5 Driver BA5972FP (U103)

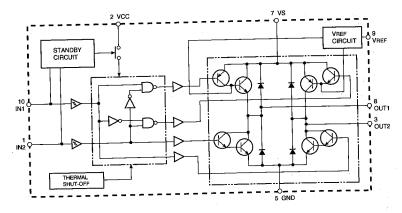


Fig. 8.6 Motor Driver TA8409F (U106, 107, 108)

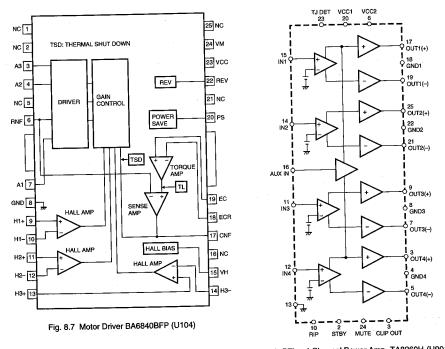


Fig. 8.8 BTL x 4 Channel Power Amp. TA8260H (U901)

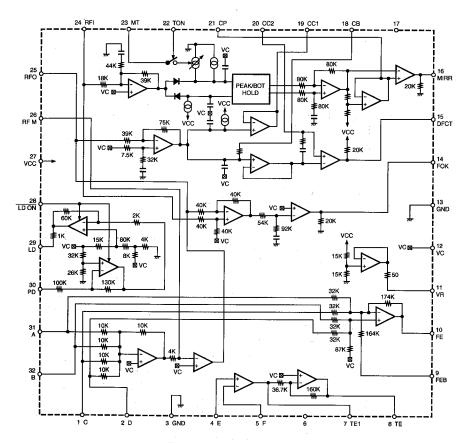


Fig. 8.9 RF Amp. CXA2521Q (U101)

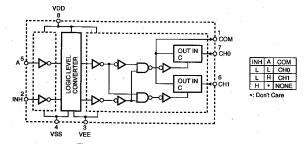


Fig. 8.10 Selector TC4W53FU (U105)

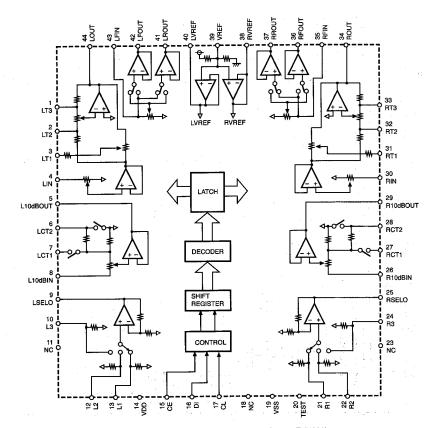


Fig. 8.11 Electronic Volume IC LC75372E (U301)

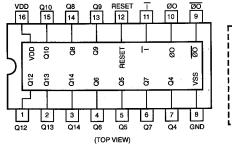


Fig. 8.12 14-Stage Counter/Oscillator TC4060AF (U503)

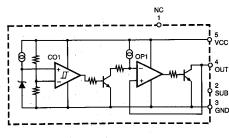


Fig. 8.13 Voltage Detector PST9142NR (U502)

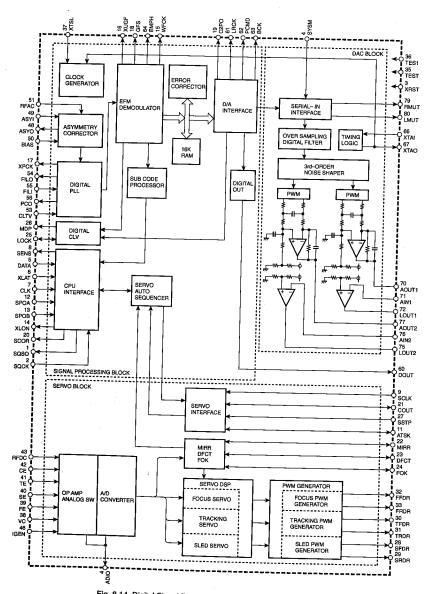


Fig. 8.14 Digital Signal Processor CXD2587Q (U102)

9. BLOCK DIAGRAM

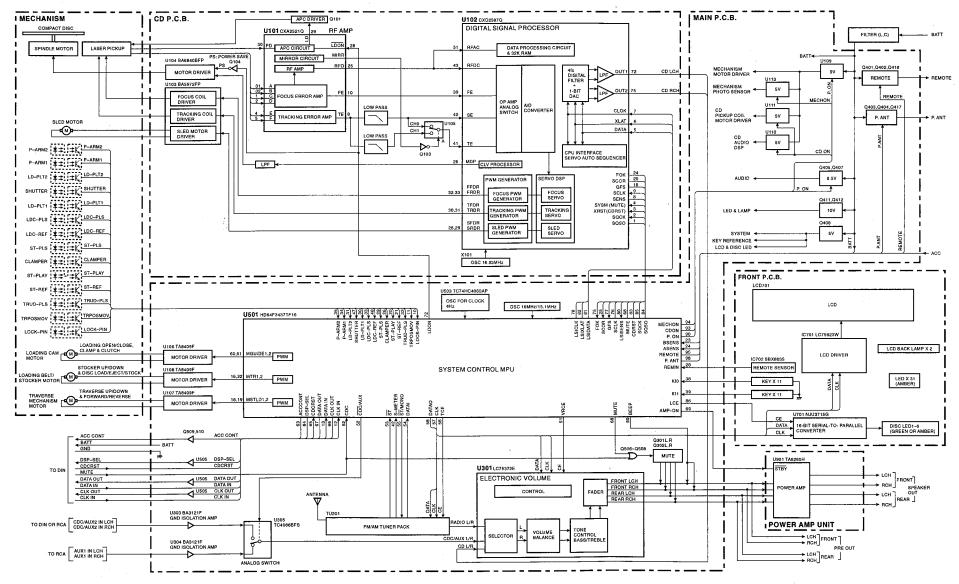


Fig. 9

10. SCHEMATIC DIAGRAMS

See the attached schematic diagram for the head unit (Receiver/6-Disc MusicBank CD Changer).

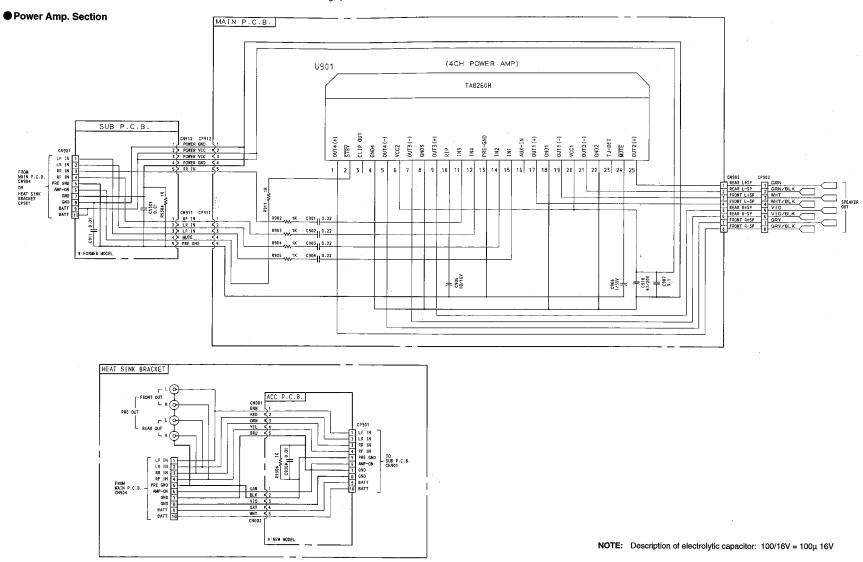


Fig. 10

SPECIFICATIONS

| Amplifier Section | |
|-------------------------------------|--|
| Maximum Power Output | 40W x 4 (4 ohms) |
| Frequency Response | 15 - 30,000 Hz ±1 dB |
| Total Harmonic Distortion | 0.1% (4 ohms, 1 kHz, 5W x 4) |
| CDC Input Level/Impedance | 0.5 V/10 kohms |
| Output Level | 1.0 V |
| Tone Controls | |
| Bass | 20 Hz ±12 dB |
| Treble | 20 kHz ±12 dB |
| Loudness | 20 Hz +12 dB (Volume level 30) |
| | |
| • FM Tuner Section | |
| Frequency Range | |
| U.S.A. and Canada | - |
| Other Area | · |
| Sensitivity | • • |
| Signal-to-Noise Ratio | ` ' |
| Stereo Separation | |
| Antenna Input | 75 ohms (Unbalanced) |
| AM Tuner Section | |
| Frequency Range | |
| U.S.A. and Canada | 530 - 1 710 kHz in 10-kHz stens |
| Other Area | |
| Sensitivity | |
| Signal-to-Noise Ratio | • |
| | |
| CD Player Section | |
| Changer principle | 6-disc MusicBank system |
| System | Compact Disc digital audio |
| Error Correction | CIRC Principle |
| Sampling Frequency | 44.1 kHz |
| D/A Converter Type | 1-bit D/A converter with 8-times oversampling digital filter |
| Frequency Response | 20 - 20,000 Hz |
| Signal-to-Noise Ratio | Better than 85 dB |
| Dynamic Range | Better than 70 dB |
| Total Harmonic Distortion | 0.03% (1 kHz) |
| General | |
| | 14.4 VDC, negative ground (10.8 - 15.6 V allowable) |
| Current Consumption | |
| Installation Dimensions (W x H x D) | And taken power output) |
| Without amp. block | 178 (M) v 50 (H) v 150 5 (D) mmm |
| | 7 (W) x 1-15/16 (H) x 6-1/4 (D) inches |
| With amp. block | |
| The write brook minimum. | |
| | 7 (W) x 1-15/16 (H) x 7-1/16 (D) inches |

Outer Dimensions* (W x H x D)

Mass

• Remote Control Unit

 Principle
 Infrared pulse system

 Power Supply
 3 VDC (1.5 V x 2)

 Dimensions*
 49 (W) x 26 (H) x 110 (D) mm

 1-15/16 (W) x 1 (H) x 4-5/16 (D) inches

 Mass
 Approx. 60 g/2 oz. (including batteries)

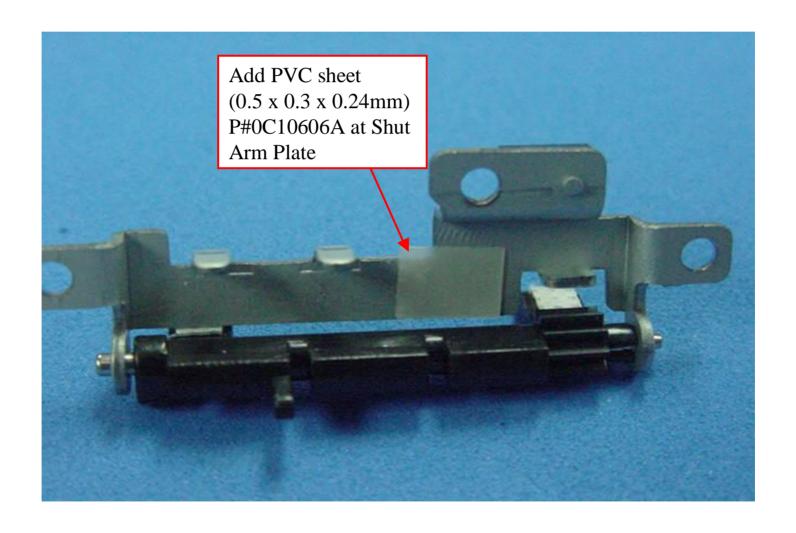
- Dimensions do not include protruding parts. Height is the panel height.
- Specifications and design are subject to change for further improvement without notice.
- MusicBank is a registered trademark of Nakamichi Corporation.



Improvements of 6 Disc & CD-700 / CD-700II Mechanism

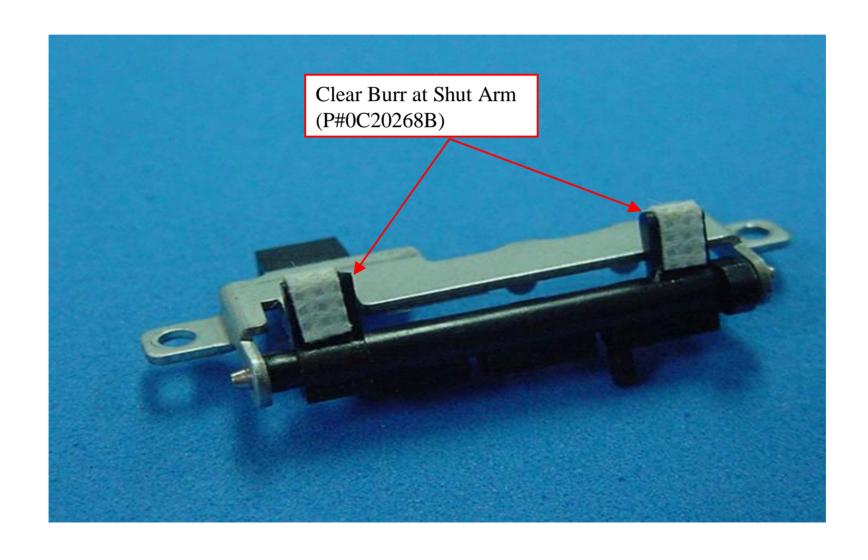


1(i) Prevent CD Auto Eject: Shutter sensor is not activated properly (Loading Ass'y)



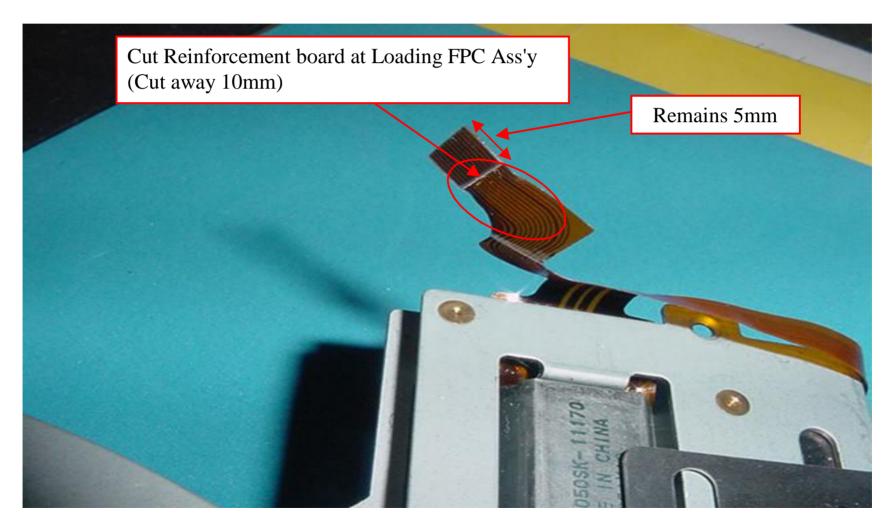


1(ii) Prevent CD Auto Eject: Shutter sensor is not activated properly (Loading Ass'y)



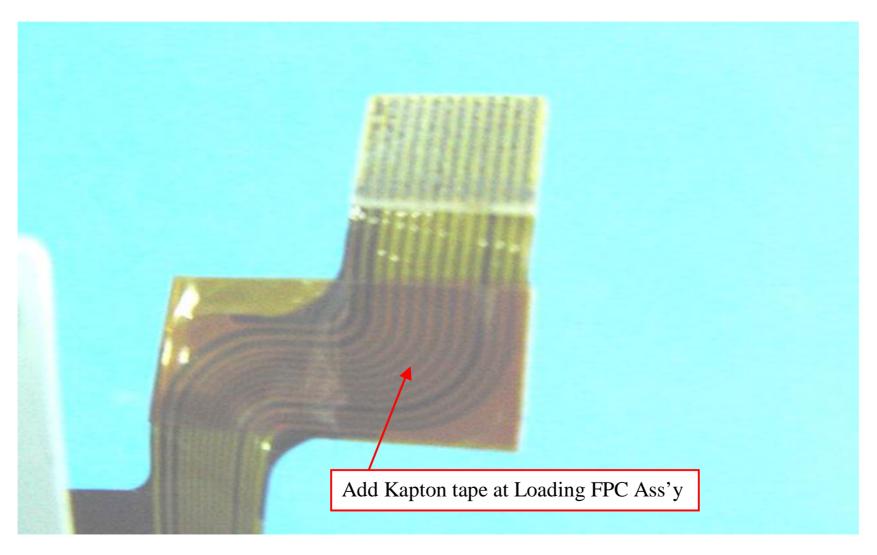


2(i) Prevent E-mecha: bad solder joint due to insertion force at CN107 (Main PCB Ass'y) Resolder or replace CN107 for repair



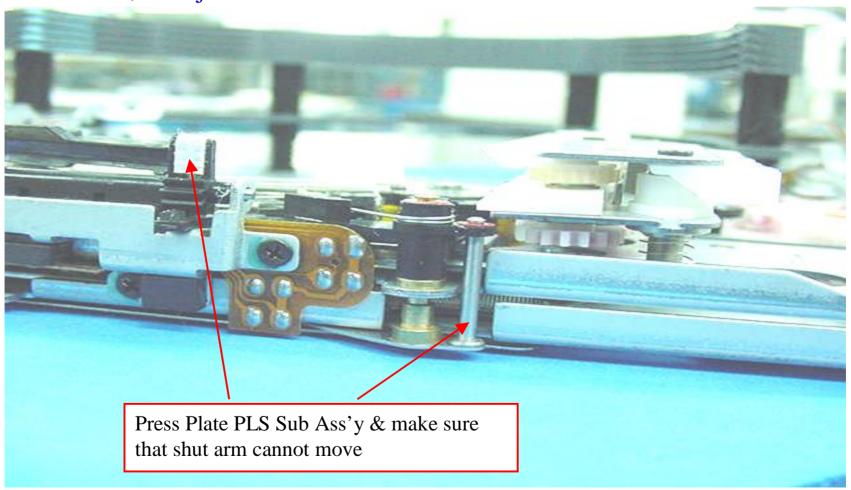


2(ii) Strengthen Loading FPC Ass'y (Loading Ass'y)



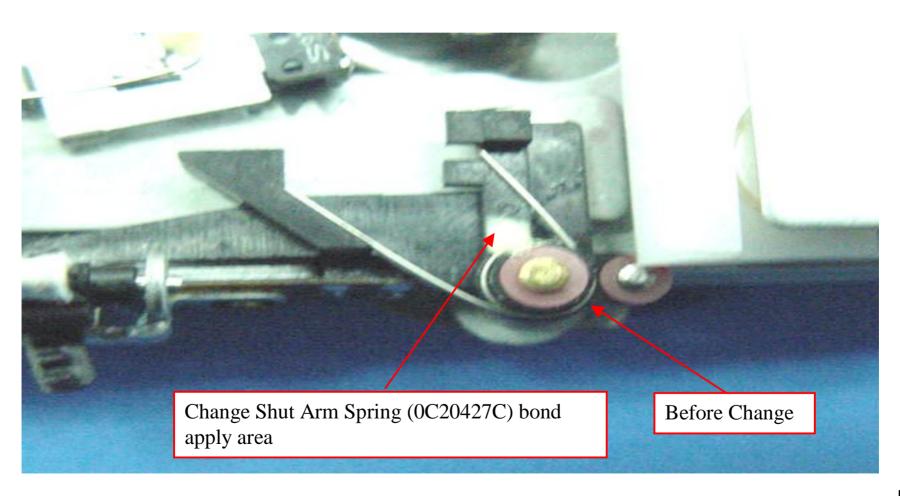


3(i) Prevent E-mecha: loading CAM Mechanism jamming (Loading Ass'y)
If it moves, check if the 3 teeth of the shut arm rack comes out when shut arm is in vertical position.
If no, re-adjust the shut arm.



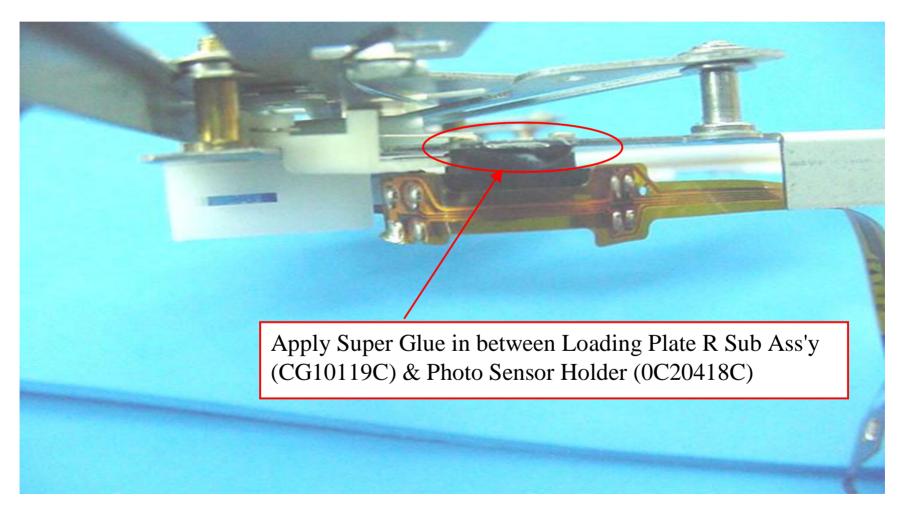


3(ii) Prevent E-mecha: shut arm movement not smooth (Loading Ass'y)



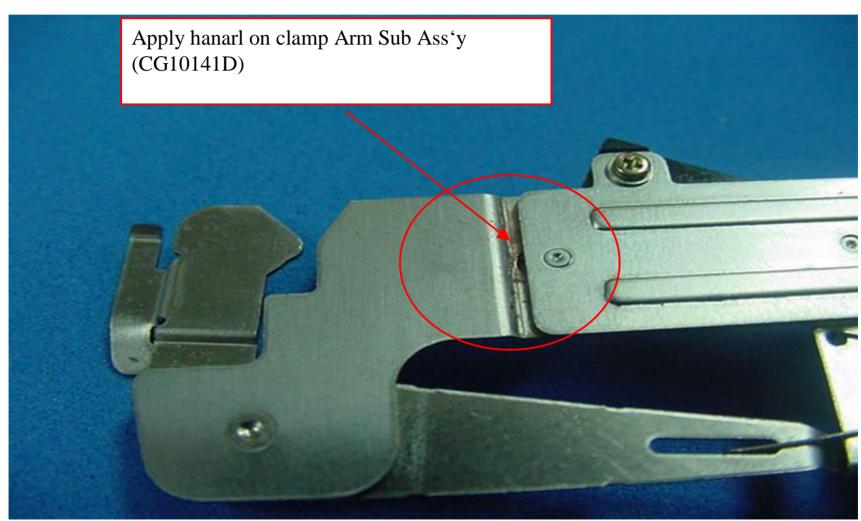


3(iii) Prevent E-mecha: loading CAM Mechanism jamming (Loading Ass'y) (6 Disc Mechanism)



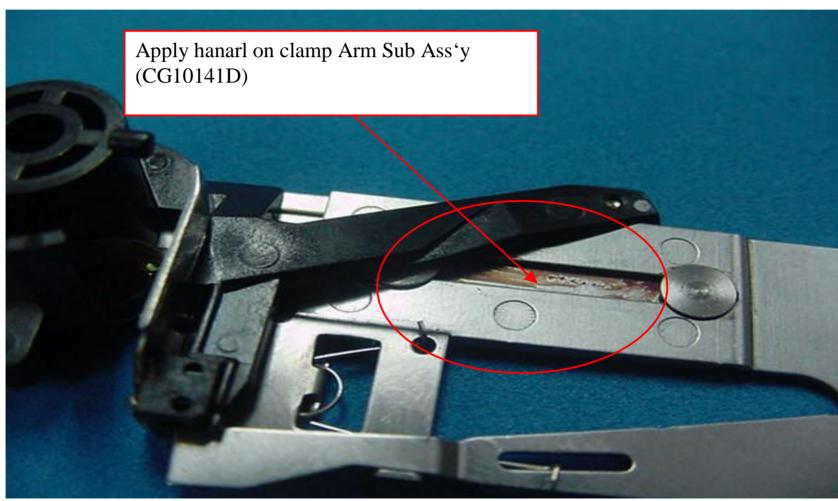


4(i) Prevent E-mecha: clamper arm does not catch clamp plate (Clamper Ass'y)





4(ii) Prevent E-mecha: clamper arm does not catch clamp plate (Clamper Ass'y)





4(iii) Prevent E-mecha: clamper arm does not catch clamp plate (Clamper Ass'y)





4(iv) Prevent E-mecha: clamper arm does not catch clamp plate (Clamper Ass'y)

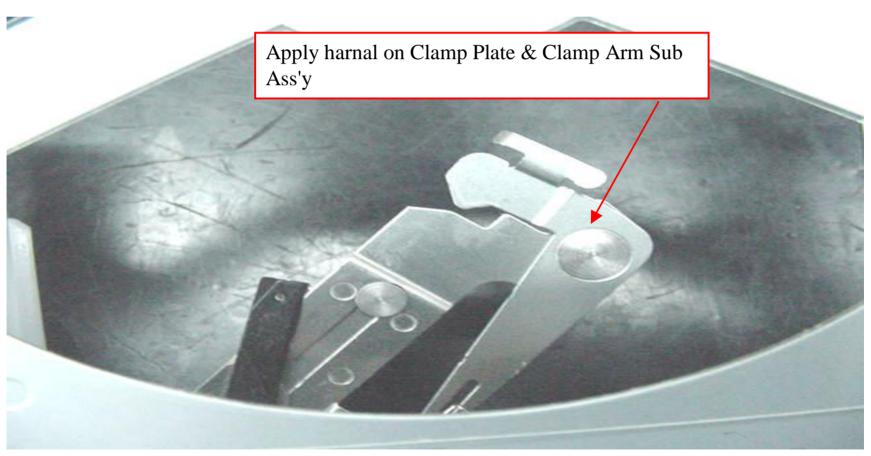
Change clamp arm sensor if the gap is too big.



12



4(v) Prevent E-mecha: clamper arm does not catch clamp plate (Clamper Ass'y)





4(vi) Prevent E-mecha: clamper arm does not catch clamp plate (Clamper Ass'y)





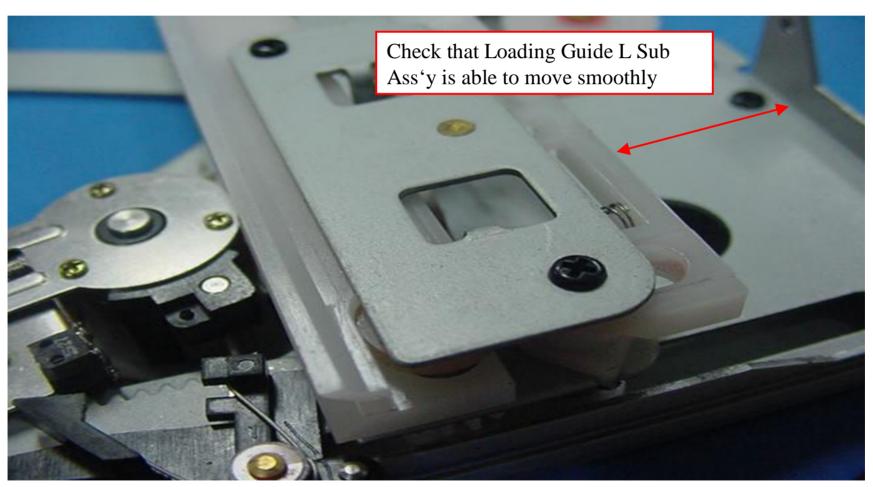
4(vii) Prevent E-mecha: clamper arm does not catch clamp plate (Clamper Ass'y)





5(i) Prevent E-mecha: loading guides does not hold disc correctly when closed

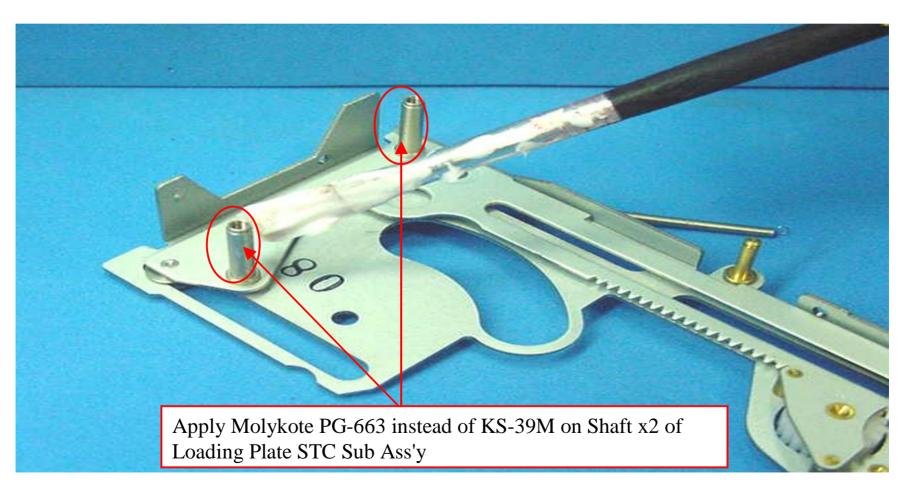
(Loading guide Ass'y)





5(ii) Prevent E-mecha: loading guides does not hold disc correctly when closed

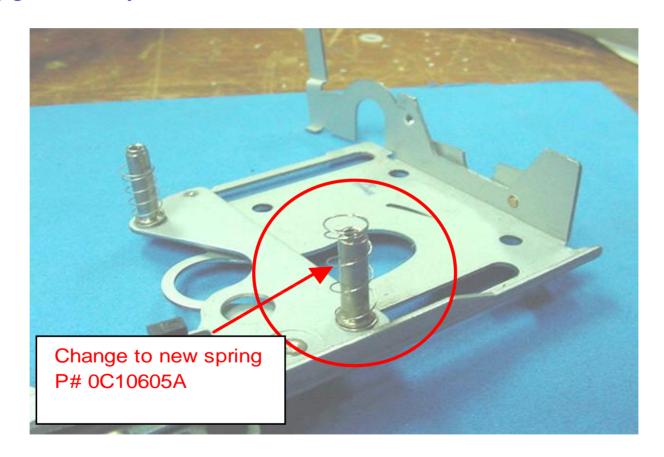
(Loading guide Ass'y)





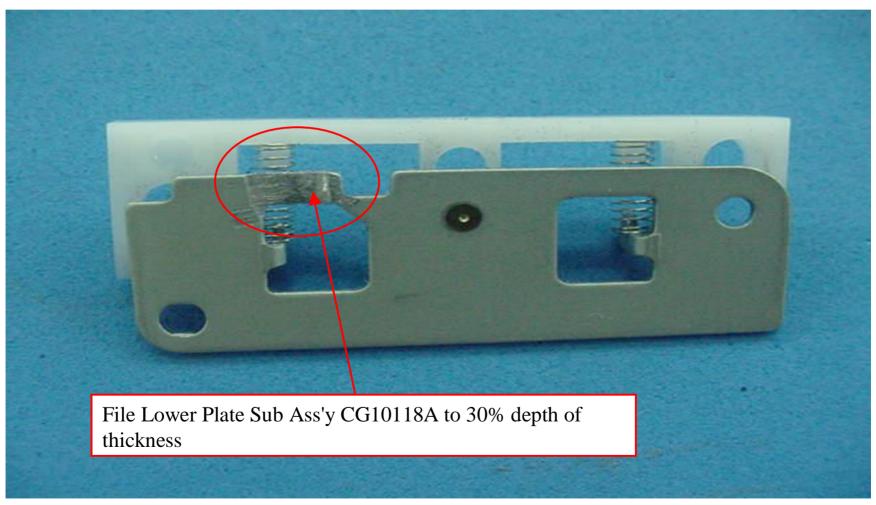
5(iii) Prevent E-mecha: loading guides does not hold disc correctly when closed

(Loading guide Ass'y)



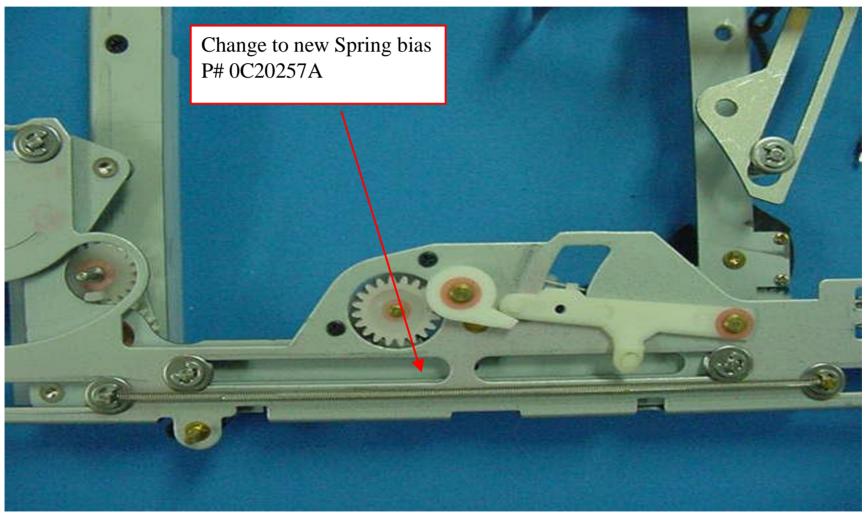


5(iv) Prevent E-mecha: lower plate sub ass'y may touch to traverse vertical screw during disc change (Loading guide Ass'y)
Change to modified spare part



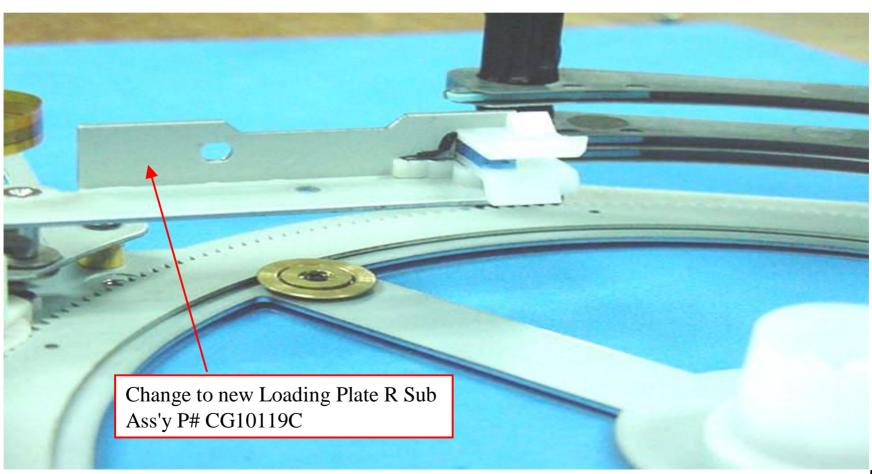


6 Improve 8cm Disc Eject: 8cm Disc does not eject (Loading guide Ass'y)



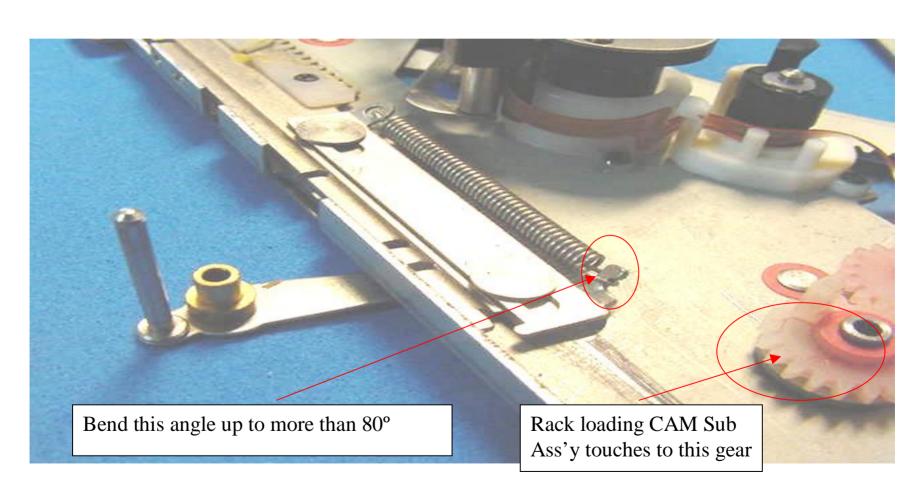


7 Prevent E-mecha: loading guide R touches to lock guide top (Loading Guide Ass'y)



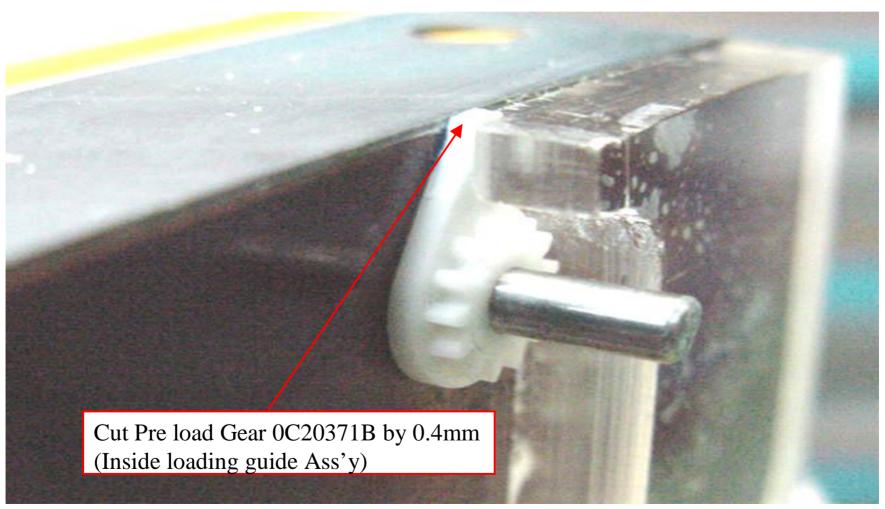


8 Prevent E-mecha: loading guide jamming (Loading Guide Ass'y)



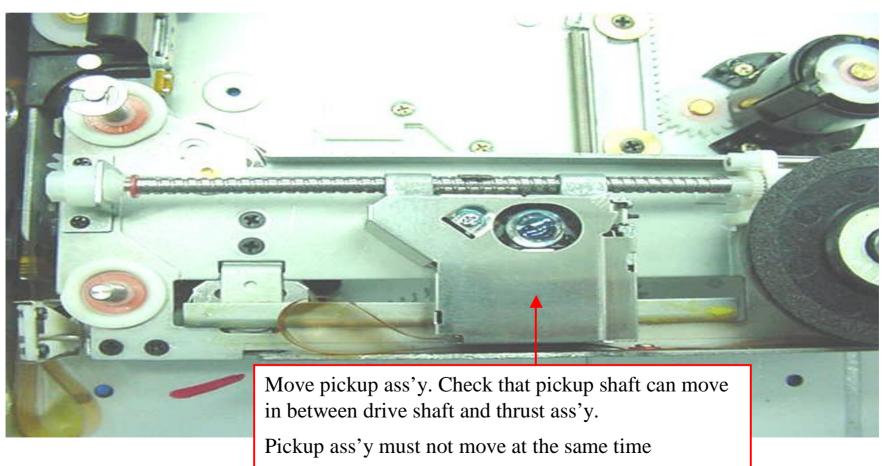


9 Prevent E-mecha: eject jamming (Loading Guide Ass'y) Change to modified spare part





10(i) Prevent CD skip: CD skip (Traverse Mecha Chassis Ass'y) Change traverse mecha chassis ass'y if pickup ass'y moves



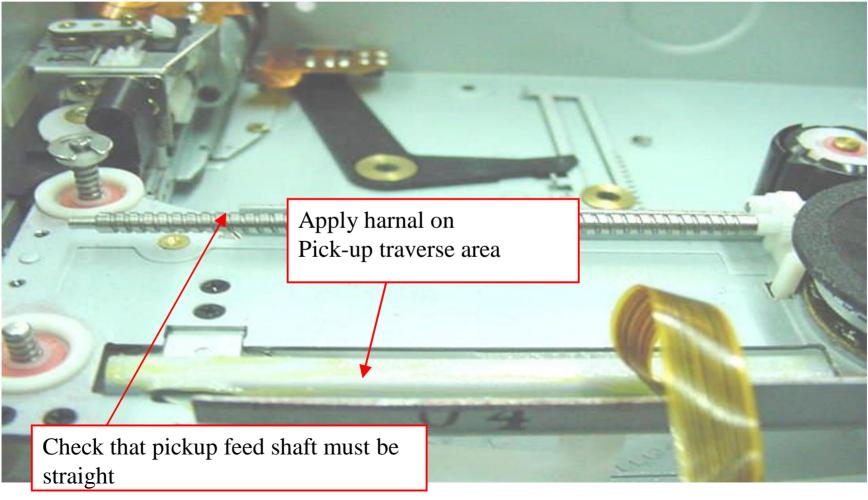


10(ii) Prevent CD skip: CD skip at low temperature (Traverse Mecha Chassis Ass'y)
When fixing Pickup Feed Shaft into Drive Shaft Guide Ass'y, make sure the Pickup feed shaft must be straight

10(iii) Prevent CD skip: CD skip at low temperature (Traverse Mecha Chassis Ass'y)
Apply "Harnal" on the top & bottom of Traverse Mecha Sub Ass'y (pick up traverse area)



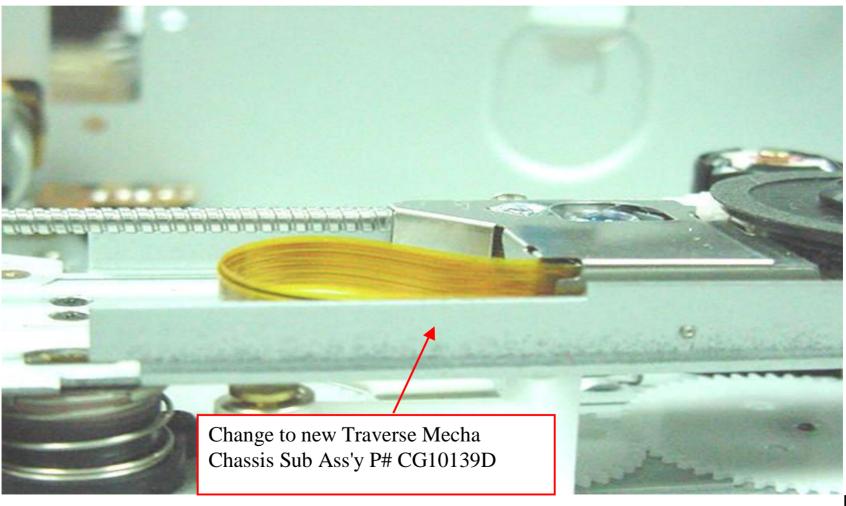
10(ii) & 10(iii) Prevent CD skip: CD skip at low temperature (Traverse Mecha Chassis Ass'y)



P 26



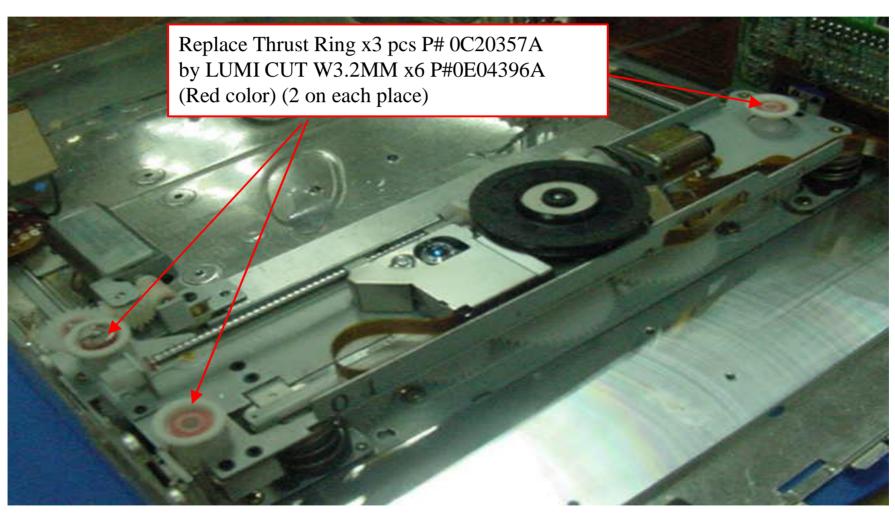
11 Prevent E-mecha: loading guide L touches to traverse mecha chassis ass'y (Traverse Mecha Chassis Ass'y)



P 27



12 Prevent E-mecha: Thrust ring comes out when traverse mechanism moves up & down (Traverse Mecha Chassis Ass'y)

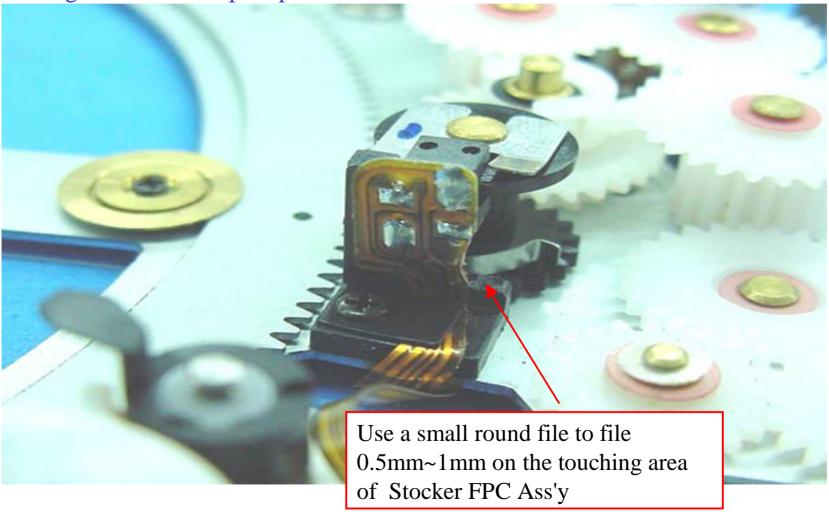




13 Prevent E-mecha: stocker FPC ass'y touches with loading roller guide ass'y (Loading Chassis Ass'y)

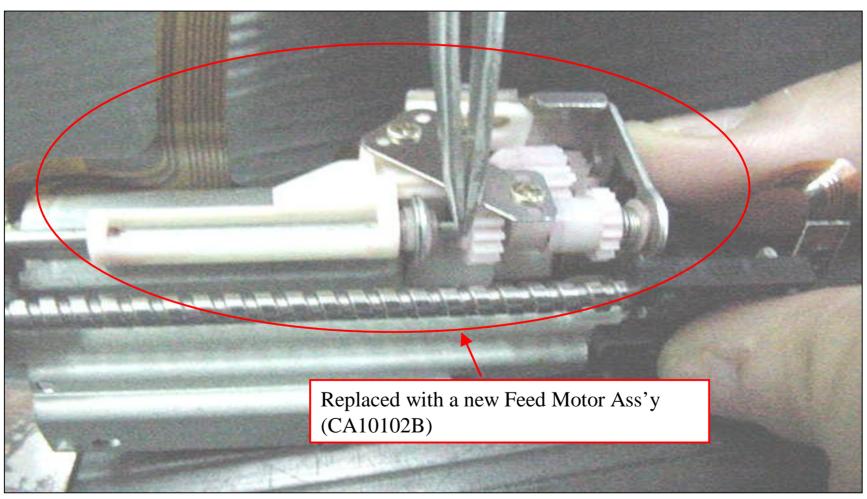
(6 Disc mechanism only)

Change to modified spare part



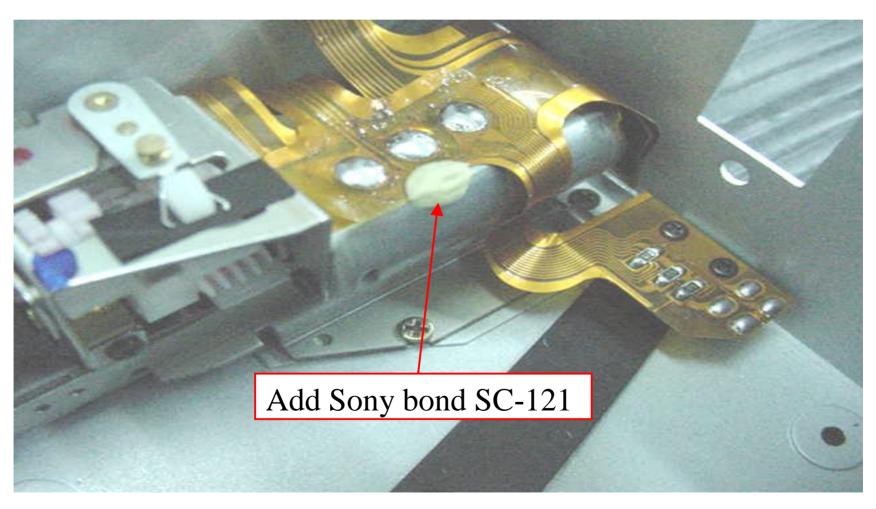


14(i) Prevent E-mecha: Gear damage (Feed motor Ass'y) (6 Disc mechanism only)





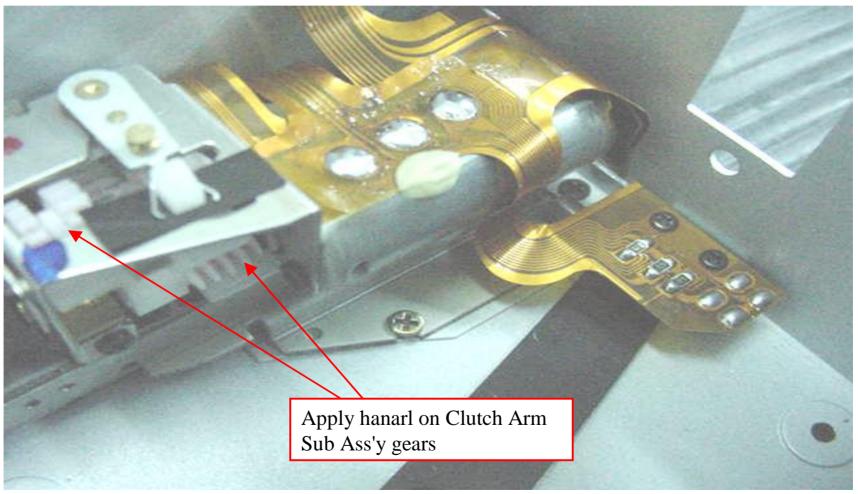
14(ii) Prevent E-mecha: Gear damage (Feed motor Ass'y) (6 Disc mechanism only)





15 Prevent E-mecha: clamper arm does not catch clamp plate (Clamper Ass'y)

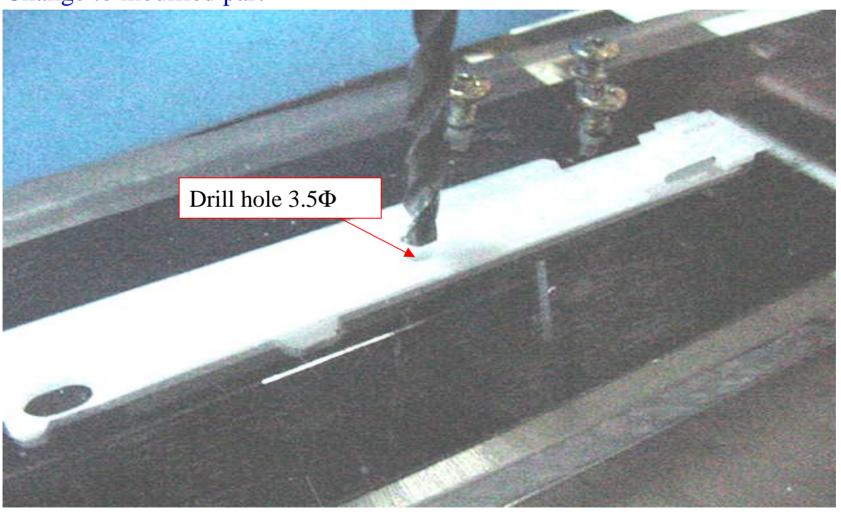
(6 Disc mechanism only)





16 Prevent E-mecha: loading guides does not hold disc correctly when closed (Loading guide Ass'y)

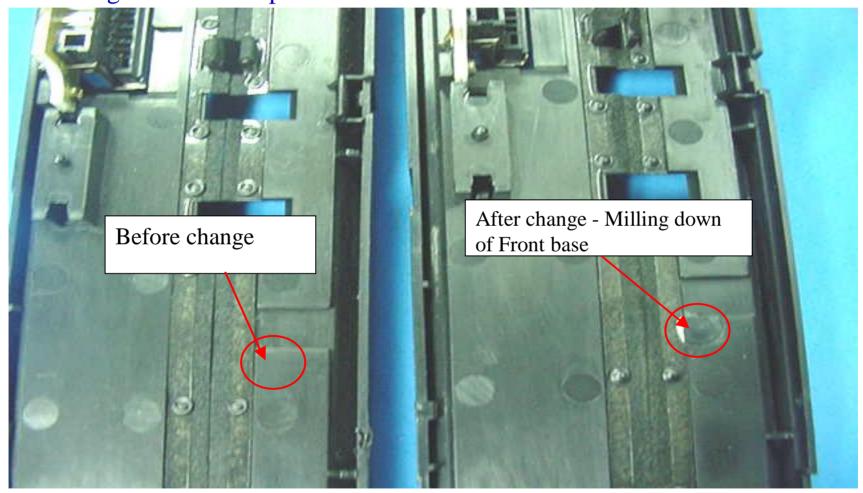
Change to modified part





17 Prevent CD cannot insert: Plate PLS Sub Ass'y touches to Front Base (Front Base Ass'y)

Change to modified part





Summary

- Most of the improvements are in the Loading Assembly (Part # CA10105).
- Traverse Mecha Chassis Assy.
- Feed Motor Assy
- Front Base Assy