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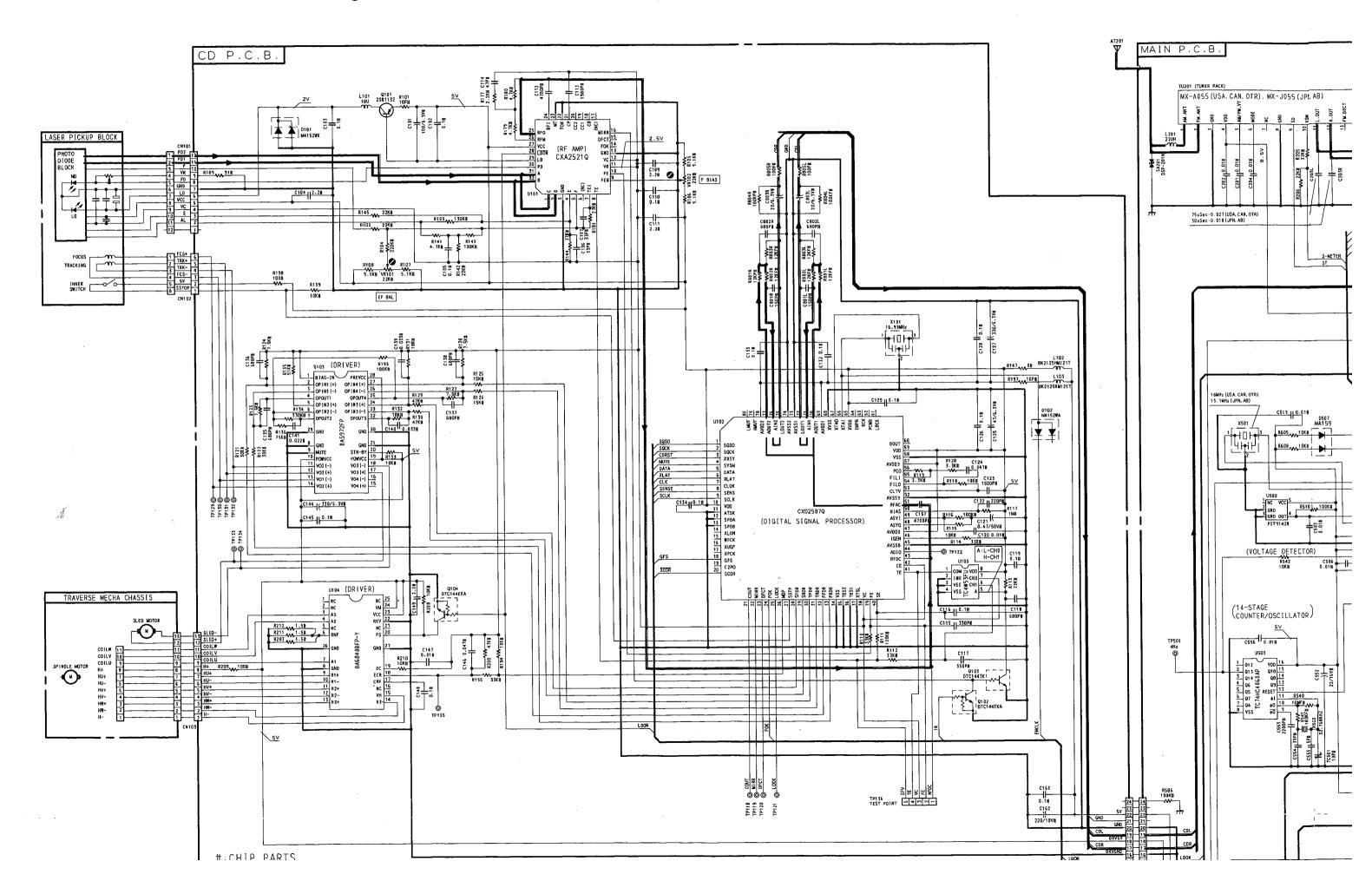


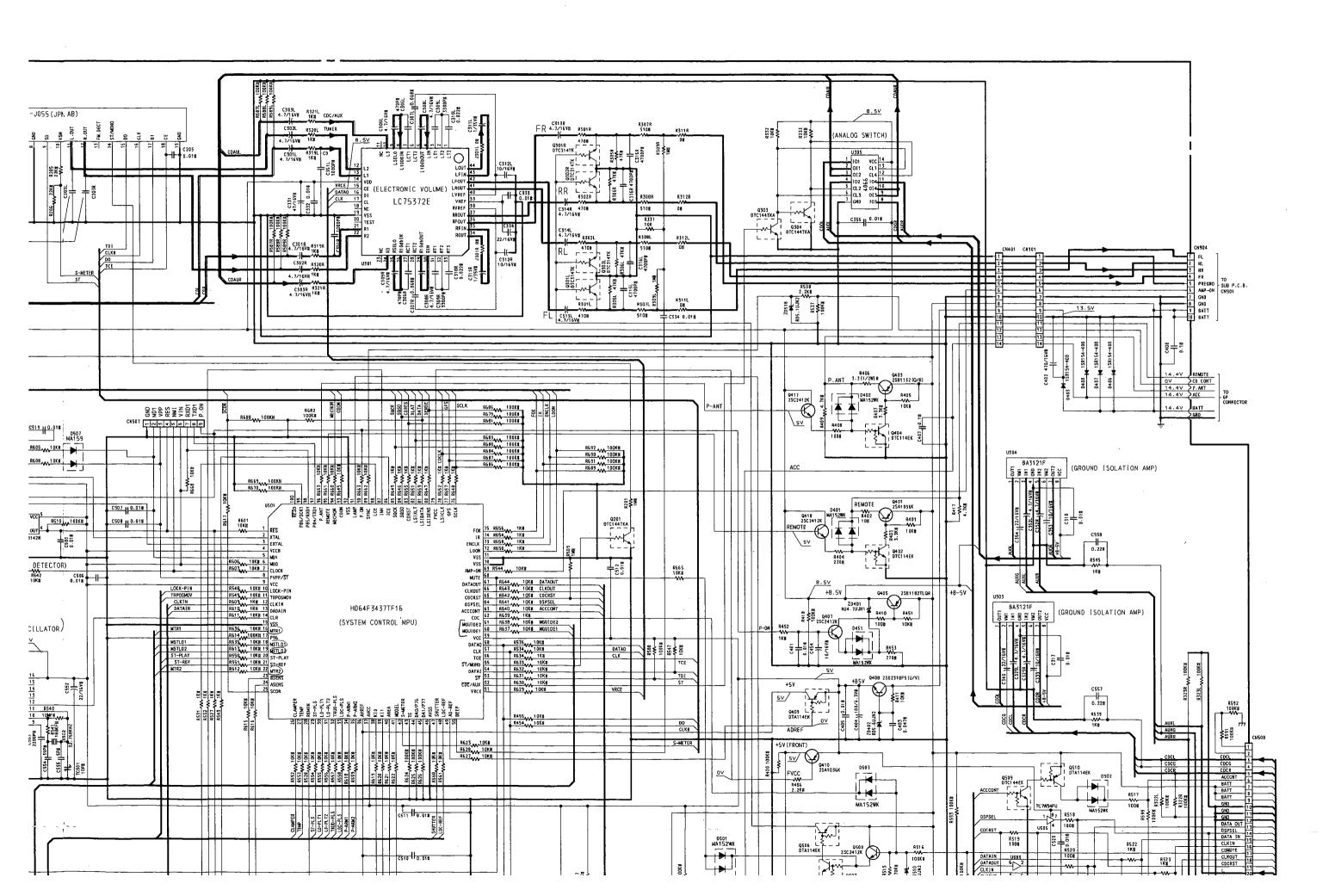
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■ Receiver / 6 Disc MusicBank CD Changer

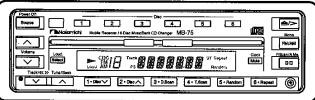




Service Manual

Mobile Receiver / 6 Disc Music-Bank CD Changer

MB-75







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	ecificati		

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.

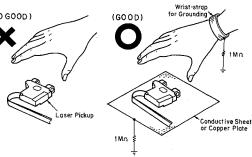
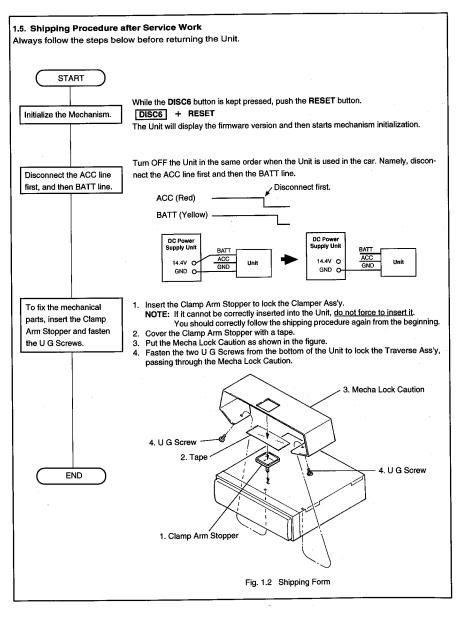


Fig. 1.1 Handling the Laser Pickup



1.6. Handling the Laser Pickup

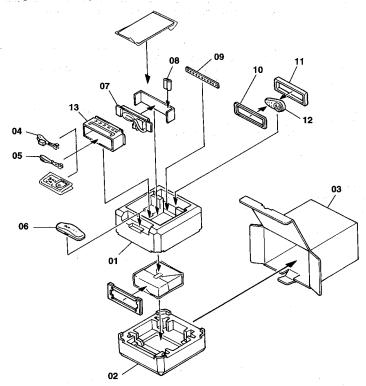


Fig. 1.3

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 Carton (USA, CAN)	1	-	0D07048A	Magic Tape BK A	2
	0F05361A	Inner Carton (JPN)	1	_	0D07049A	Magic Tape BK B	2
04	0B84883B	6P Wire Ass'y	1	_	DG05271A	Screw Kit	1
05	0B84862C	8P SP Cable Ass'y	1	_	JG04899A	Bolt Ass'v	1
06		Carrying Case Ass'y (USA, CAN)	1	_	0J08221B	Connector Bracket	1
07	HA07655A	Heat Sink Bracket Ass'y	1	_	0E00612A	M3x6 + Pan (2A)	1
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)	ż
11	0H07771A	Panel Frame L (USA, CAN)	1	_	DG04858A	Terminal Ass'y D (JPN)	1
12	DA05247A		1				
13	HG07456B	Sleeve Ass'y (USA, CAN)	1				
_	0D07031C	Owner's Manual (English)	i				
_	0D07030B	Owner's Manual (Japanese)	1				
_	0F05381A	Soft Sheet (for Front Panel)	- 1				

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.

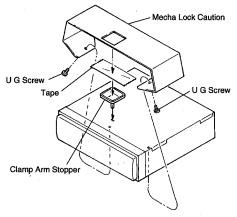


Fig. 2.1

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.

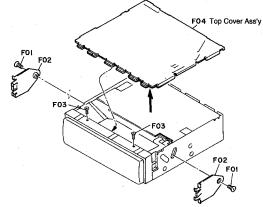


Fig. 2.2

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.

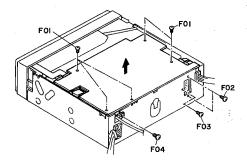
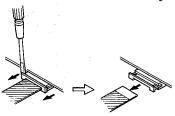


Fig. 2.3.1

(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.

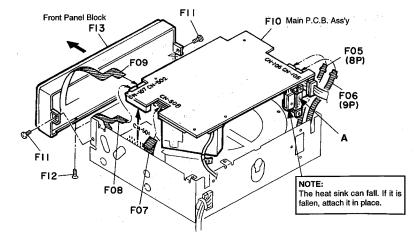


Fig. 2.3.2

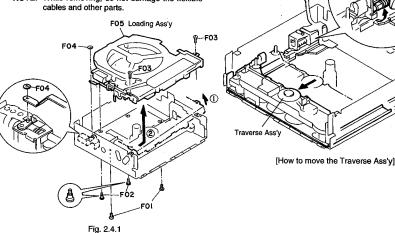
2.4. Loading Ass'y

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

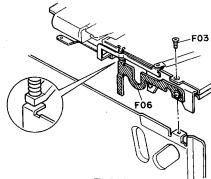


2.4.2. Installing the Loading Ass'y

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.

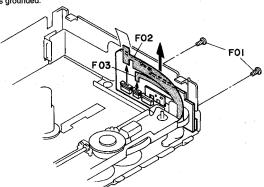
(6) Disconnect the flexible cable F04 from F05 (CD P.C.B. Ass'y).

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.



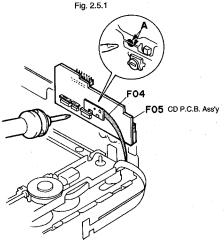


Fig. 2.5.2

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.

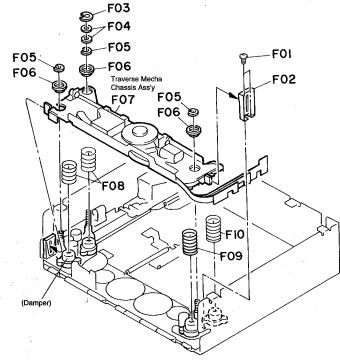


Fig. 2.6

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".

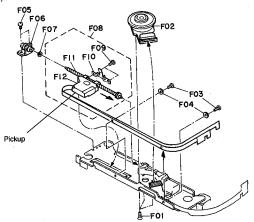


Fig. 2.7

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

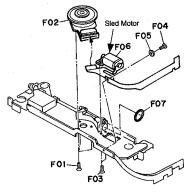


Fig. 2.8

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.

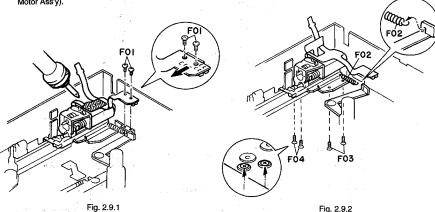
- (1) Remove the Loading Ass'y. See 2.4 "Loading Ass'y".
- (2) Be sure that the Traverse Ass'y is in the front position. (If not, move it by hand. See "How To Move the Traverse Ass'y" in 2.4 "Loading Ass'y".)
- (3) Remove the screws F01 (M1.7x1.6 + Pan (Black Chromate), 2 pcs.).
- Unsolder the flexible 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



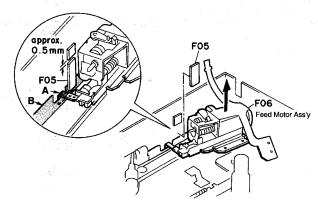


Fig. 2.9.3

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.

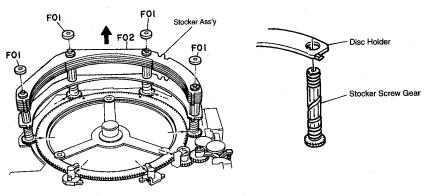


Fig. 2.10.1

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)

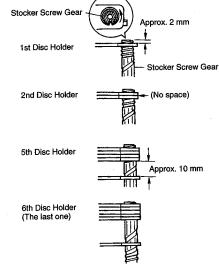
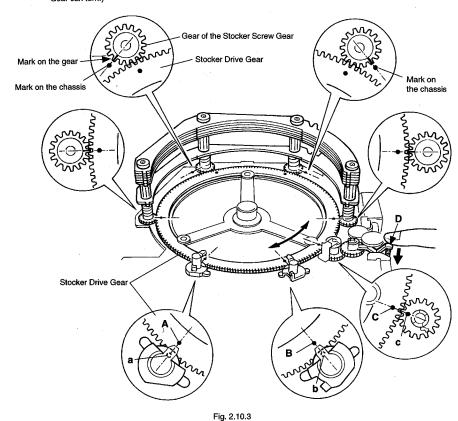


Fig. 2.10.2

- (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).

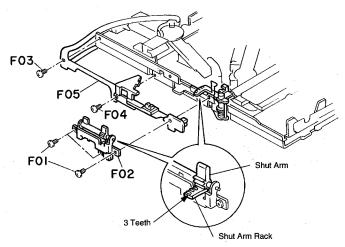


Fig. 2.11

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-

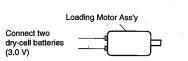
Remove the screws F05 (M2x3 + Pan (Black Chro-

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]

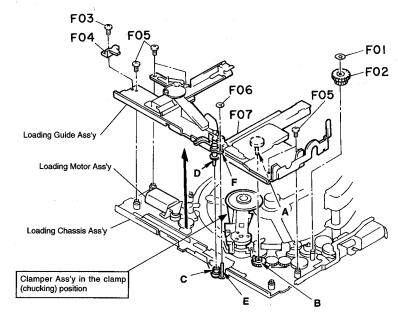


Fig. 2,12.1

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.

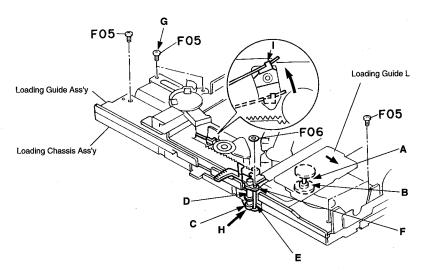


Fig. 2.12.2

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".

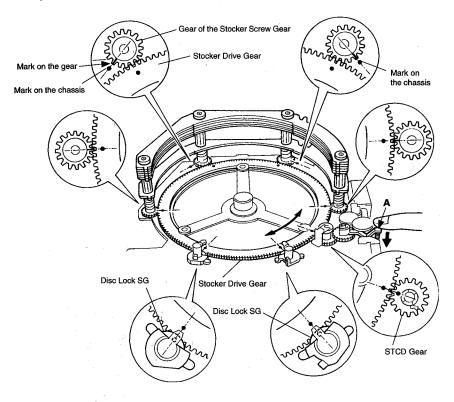


Fig. 3.1

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.

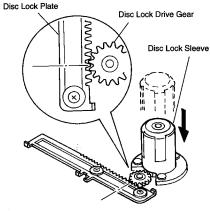


Fig. 3.2

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

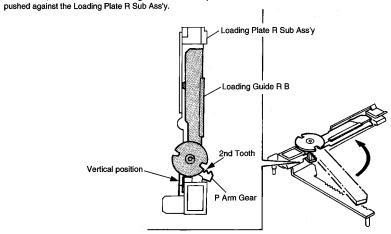


Fig. 3.3

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.)

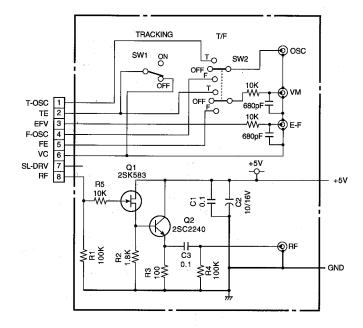


Fig. 4.1 CD-ROM Test Unit

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.

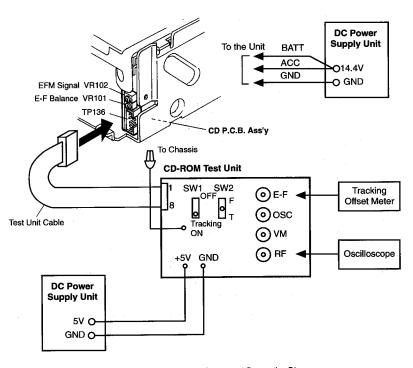


Fig. 5.1 Measurement Instrument Connecting Diagram

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	GW2 G F T	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 Test Unit 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	CD P.C.B. VR101	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

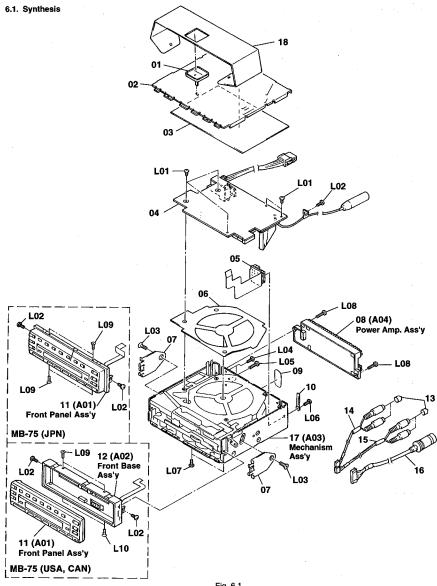


Fig. 6.1

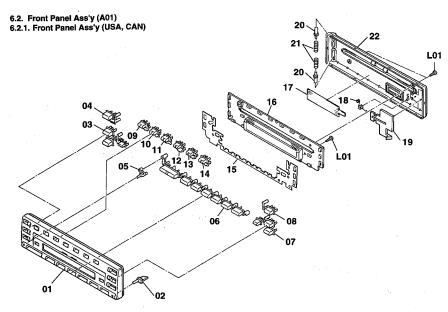


Fig. 6.2.1 For USA, CAN

6.1. Synthesis	6.1.	Synthesi	8
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Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
1101.110.			<u>u iy</u>				
	_	Synthesis		L10	0E04100A	M1.4x4 Countersunk (Black Chromat	e) 2
01	0C20480C	Clamp Arm Stopper	1			(USA, CAN)	
02	0C20365E	Top Cover	1				
03	0J08184A	Insulator Main A	i	621 Eront	Panal Acc's	(A01) (USA, CAN)	
04	BA09853A	Main P.C.B. Ass'y (USA, CAN)	1		ranci Ass y	(AUI) (USA, CAN)	
	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	701	INDIGIN	riolit ralici Ass y (OSA, OAIV)	•
08	HA07651A		1	01	ΗΔΩ7779Δ	Front Panel Sub Ass'v	- 1
09	0J08196A	Label Protector	1	02	0H07802A		- 1
10	0J06068A	Clip	1	03	0H07792A		- 1
11	HA07641A	Front Panel Ass'y (USA, CAN)	1	04	0H07790A		- 4
	HA07642A	Front Panel Ass'y (JPN)	1	05	0H07809A		- 1
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	iĭ		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	M5x6 Countersunk (USA, CAN)	2	15	0J08165A		i
L04	0E04046A	M2.6x3 + Pan	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	M3x10 + Binding	2	20	0J08161A		2
L09	0E04053A	M1.4x3 Countersunk	2	21	0J08162B		2
		(Black Chromate) (USA, CAN)		22	0H07749E		ī
	0E04053A	M1.4x3 Countersunk	4	L01	0E03814A	PT2x8 + Binding (Black Chromate)	3
		(Black Chromate) (JPN)				•	

6.2.2. Front Panel Ass'y (JPN)

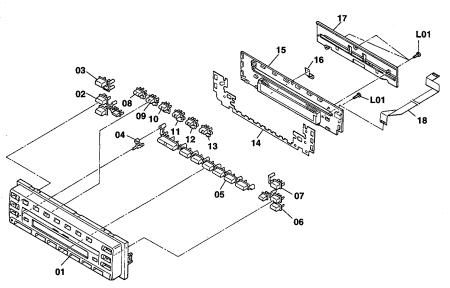


Fig. 6.2.2 For JPN

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		1
10	0H07786D		1
11	0H07787D		- 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)

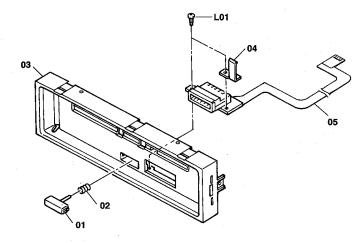
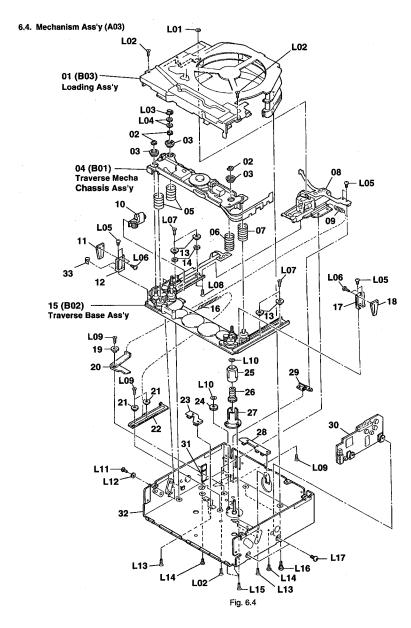
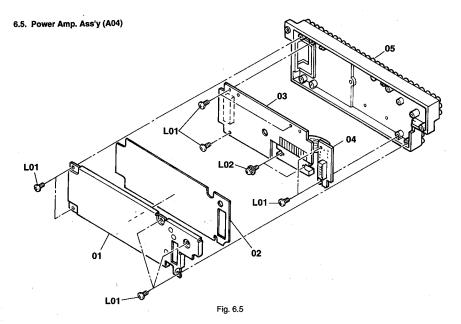


Fig. 6.3 For USA, CAN

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 3	L05	0E04067A		2 6
04	CA10138A	Traverse Mecha Chassis Ass'v	1	L06	0E04060A		4
- 05	0C20393A		2	L07			
06	0C20394B		1		0E04081A		
07	0C20392B	Damper Spring A	Ť	L08	0E04095A		
08	CA10102A		- 1	L09	0E04080A		
09	0C20446A	Disc Lock Arm Spring	i	L10	0E04090A		2
10	CA10144A	Bevel G Bracket Ass'y	4	L11		BT2x3 + Pan	1
11	0C20376A	Guide PL L	4	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	*	L15		BT2x3 Countersunk (Black Chromate) 3
15	0020332A	Traverse Base Ass'y	-	L.16		M17 STC Lock Screw	´ 2
16	0C20444B	Disc Lock Spring	1	L17	0E04076A	M2.6x3 + Pan (Black Chromate)	2
17	0C20372A	Guide Spring 2	1				
18	0C20372A		1				
19			1	6.5. Power .	Amp. Ass'y ((A04)	
20	0C20107A	Disc Lock Sensor Arm Shaft	1	Schematic			
	0C20108C		- 1	Ref. No.	Part No.	Description	O.
21		Lock Plate Collar	2	nei. No.	Part No.	Description	Qty
22		Disc Lock Plate	1	A04	HA07651A	Power Amp. Ass'v	1
23	0C20109A		1				
24	0C20111A		1	01	0H07769B	B. Cover	1
25		Disc Lock Sleeve	1	02	0J08186A	Insulator Amp.	- 1
26	0C20114A		1	03		Main P.C.B. Ass'y	1
27	0C20115A		1	04		Sub P.C.B. Ass'v	1
28	0C20110A		1	05	0H07826B		- i
29	0C20113A		1	ĽÕ1		M2.6x5 + Pan	10
30	BA09857A	CD P.C.B. Ass'y	1	L02		M2.6x8 + Pan with Washer	2
31	0C20477C	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)

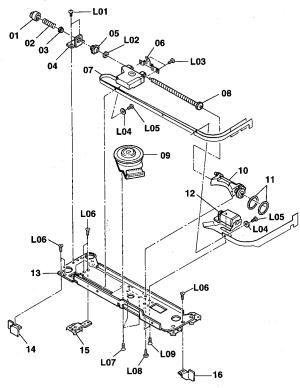


Fig. 6.6

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	omate) 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

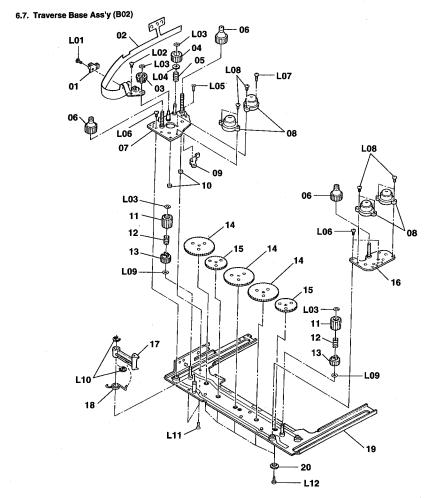
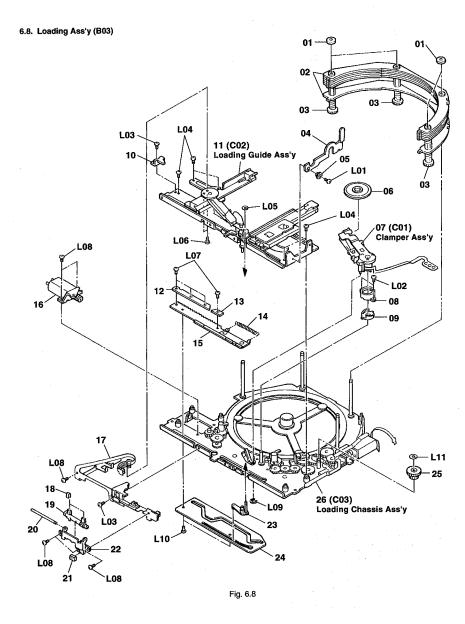


Fig. 6.7

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)

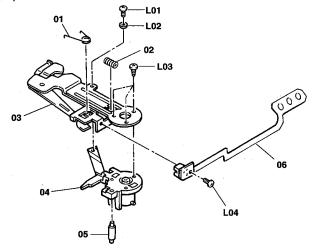


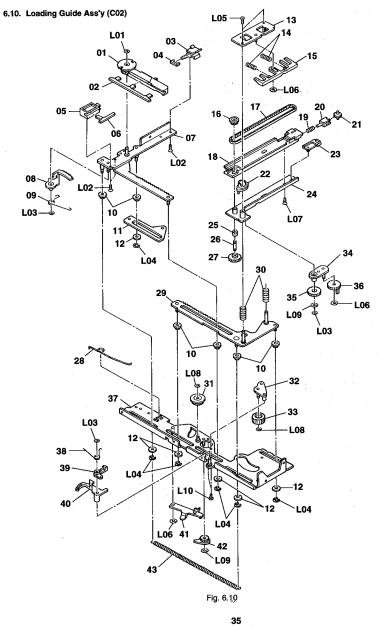
Fig. 6.9

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		
L05	0E04086A	Cut Washer 1.2x3x0.125	1
L06	0E04061A	BT1.4x2.5 + Pan (Black Chromate)	2

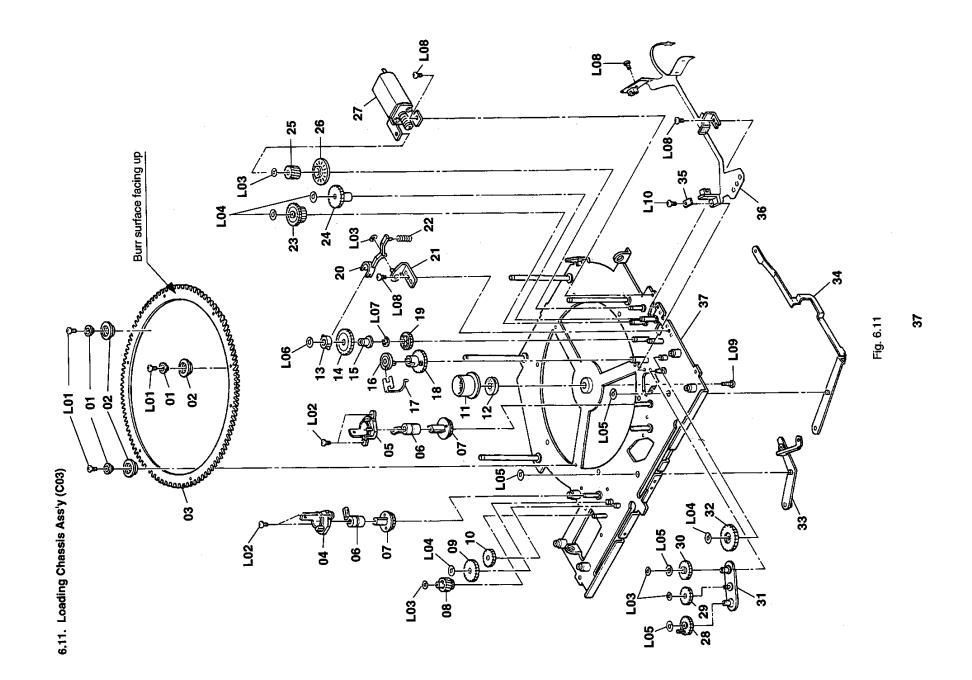
Ref. No.	Part No.	Description
L07	0E04064A	M1.4x1.4 + Pan (Black Chromate)
L08	0E04072A	M2x1.8 + Pan (Black Chromate)
L09	0E00165A	E-Ring 1.2mm
L10	0E03215A	M1.4x2.5 + Pan (Black Chromate)
L11	0E04089A	Cut Washer 2.1x5x0.125

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)

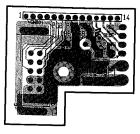
	-	
Schematic		
Ref. No.	Part No.	Description
C03		Loading Chassis Ass'y
01	0C20211A	Roller Collar
02	0C20210A	Gear Roller
03	0C20209B	Stocker Drive Gear
04	0C20407A	Disc L Cam R
05	0C20406A	Disc L Cam
06	0C20404A	Disc Hook
07	0C20405C	Disc Lock SG
08	0C20225B	
09	0C20226B	
10	0C20227F	LDC P Gear
11	0C20208A	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



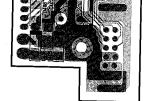


Fig. 7.1.1.1 Power Supply Section-Component Side View

Fig. 7.1.1.2 Power Supply Section-Dip Side View

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

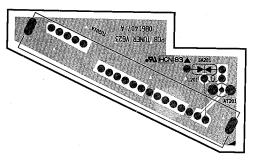


Fig. 7.1.2 Tuner Section-Component Side View

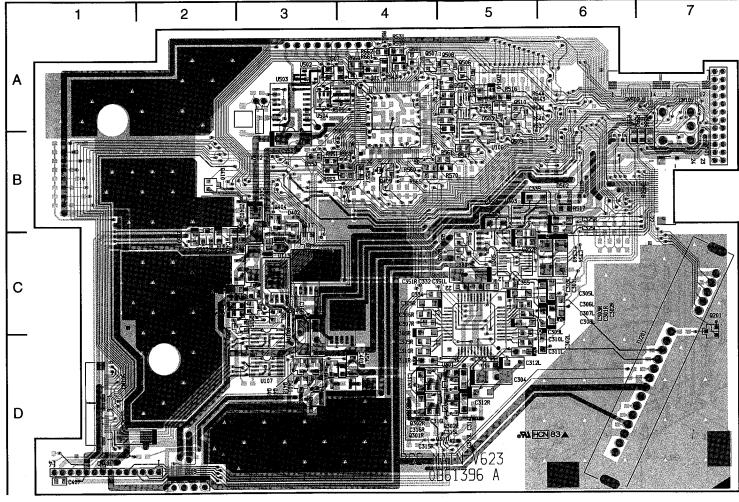


Fig. 7.1.3.1 Main Section-Component Side View

Semiconductor Location

Cilibolidacion Eccanoli								
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

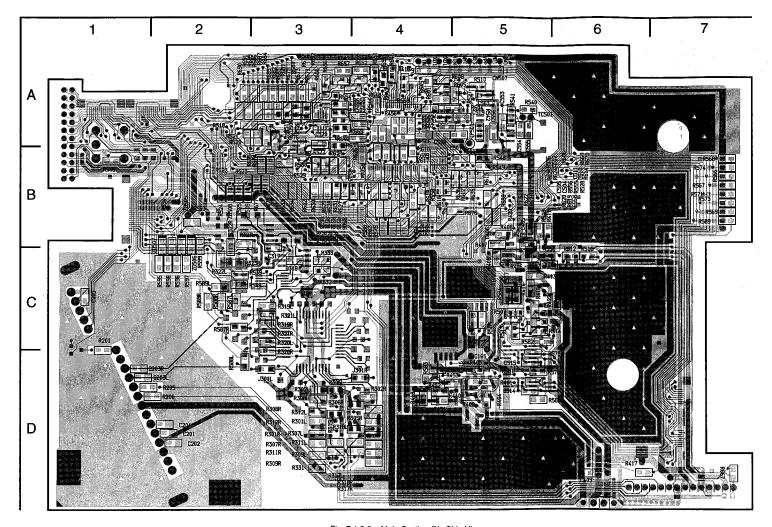


Fig. 7.1.3.2 Main Section-Dip Side View

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

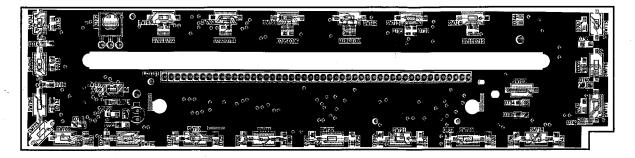


Fig. 7.2.1 Component Side View

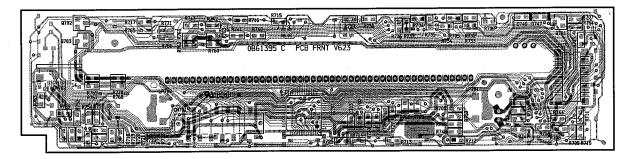


Fig. 7.2.2 Dip Side View

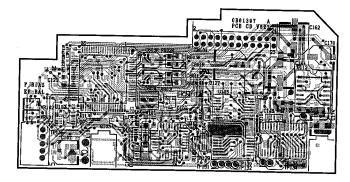


Fig. 7.3.1 Component Side View

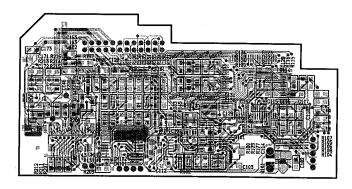


Fig. 7.3.2 PDip Side View

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

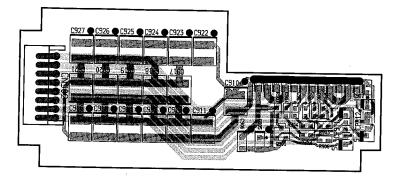


Fig. 7.4.1 Component Side View

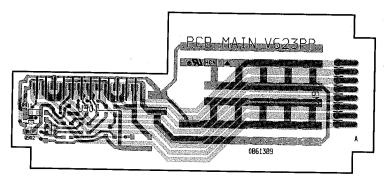


Fig. 7.4.2 Dip Side View

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

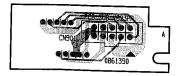


Fig. 7.5.1 Component Side View

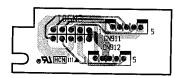


Fig. 7.5.2 Dip Side View

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	0B10974A		LT1H4	
R629,630	0B25563A		10K	1/10W J*	C405	0B43064A	CC 0.01 50V J*	D709 D710	0B10956A 0B10974A		LT1E4	
R631,632	0B25563A		10K	1/10W J*	C406 C407	0B43063A 0B43092A	CC 1000P 50V J* CC 0.1 25V Z*	D710 D711	0B10974A	LED	LT1E4	
R633 R634	0B25563A 0B25539A		10K 1K	1/10W J* 1/10W J*	C407	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	0B10974A		LT1H4	
R637,638	0B25563A	RK	10K	1/10W J*	C503	0B43064A	CC 0.01 50V J*	D716,717	0B10974A		LT1H4	
R639	0B25539A		1K	1/10W J*	C504,505	0B43200A	CC 220P 50V J*	D718,719	0B10974A		LT1H4	
R640,641	0B25563A		10K	1/10W J* 1/10W J*	C506,507 C508	0B43064A 0B43064A	CC 0.01 50V J* CC 0.01 50V J*	D720,721 D722,723	0B10974A 0B10974A		LT1H4	
R642,643 R644,645	0B25563A 0B25563A		10K 10K	1/10W J*	C508 C510.511	0B43064A	CC 0.01 50V J*	D724,725	0B10974A		LT1H4	
R646.647	0B25539A		1K	1/10W J*	C512,513	0B43064A	CC 0.01 50V J*	D726,727	0B10974A	LED	LT1H4	40A*
R648,649	0B25539A	RK	1K	1/10W J*	C514,515	0B43064A	CC 0.01 50V J*	D728,729	0B10974A	LED		
R650,651	0B25539A		1K	1/10W J*	C519,520	0B43064A	CC 0.01 50V J*	D730,731	0B10974A 0B10974A	LED		
R652	0B25539A	RK	1K	1/10W J*	C552 C553	0B42783A 0B43078A	CE 22 16V* CC 2200P 50V K*	D732,733 D734,735	0B10974A	LED	LT1H4	
R653 R654,655	0B25563A 0B25539A	RK RK	10K 1K	1/10W J* 1/10W J*	C554	0B43076A	CC 39P 50V J*	D736,737	0B10974A		LT1H4	
R656,657	0B25539A	RK	iĸ	1/10W J*	C555	0B43115A	CC 5P 50V D*	D738,739	0B10974A		LT1H4	
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 0B84902A	9P F Connector* 8P F Connector*	D746,747 R702	0B10971A 0B20671A	SID	MA11.	2* 1/10W J*
R665,666 R667,668	0B25563A 0B25563A	RK RK	10K 10K	1/10W J* 1/10W J*	CN106 CN107	0B84903A	12P F Connector*	R703	0B25507A	RK	47	1/10W J*
R669,670	0B25587A	RK	100K	1/10W J*	CN501	0B84871A	24P Connector Socket	R704,705	0B25523A	RK	220	1/10W J*
R671,672	0B25587A	RK	100K	1/10W J*	CN502	0B84907A	1/4P 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	0B25587A	RK	100K 100K	1/10W J* 1/10W J*		— Tuner —	_	R710	0B25537A	RK	820	1/10W J*
R679,680 R681,682	0B25587A 0B25587A	RK	100K	1/10W J*		— (ulle) —		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	R713	0B25553A	RK	3.9K	1/10W J*
R687,688	0B25587A	RK	100K	1/10W J*	TU201	0B90796A	Tuner Pack MX-A055	R714 R715,716	0B25567A 0B25523A	RK RK	15K 220	1/10W J* 1/10W J*
R689,690	0B25587A 0B25587A		100K 100K	1/10W J* 1/10W J*		0B90797A	(USA, CAN) Tuner Pack MX-J055	R717	0B25525A	BK	270	1/10W J*
R691,692 TC501	0B42787A		ner 10f			00307375	(JPN)	R718	0B25529A	RK	390	1/10W J*
C159	0B42814A	CE	33 25	V*		0B84892A	ANT Jack (1)	R719	0B25531A	RK	470	1/10W J*
C160	0B43064A	CC	0.015	0V J*		0J08170A	Tuner P.C.B. Spacer (4)	R720	0B25535A	RK	680	1/10W J*
C161	0B42789A		47 16					R721 R722	0B25537A 0B25541A	RK RK	820 1.2K	1/10W J* 1/10W J*
C166 C201,202	0B42789A 0B43064A	CE	47 16\ 0.01 5			— Power S	опрыя —	R723	0B25547A	RK	2.2K	1/10W J*
C201,202	0B42791A		0.027		D403	0B10946A	SID 1SR154-400*	R724	0B25553A	RK	3.9K	1/10W J*
02002,11	05 121 0 171		, CAN)		D406,407	0B10946A	SID 1SR154-400*	R725	0B25567A	RK	15K	1/10W J*
	0B43235A			50V K* (JPN)	D408	0B10946A	SID 1SR154-400*	R726,727	0B25579A	RK	47K	1/10W J*
C204,205	0B43064A		0.015		C402	0B42786A	CE 470 16V* CC 0.1 25V Z*	R728,729 R730	0B25579A 0B25579A	RK RK	47K 47K	1/10W J* 1/10W J*
C301L,R	0B42785A	CE CE	4.7 16 4.7 16	iV"	C408 CN901	0B43092A 0B84924A	Connector Header 14P	R732,733	0B25519A	RK	150	1/10W J*
C302L,R C303L,R	0B42785A 0B42785A		4.7 16		CN904	0B84861A	BB Connector Plug 10P	R734,735	0B25519A	RK	150	1/10W J*
C304	0B42783A		22 16		0.100	0B84885B	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		470P	50V J*		0J08129A 0J08190A	P.C.B. Holder C (1) P.C.B. Spacer Spring Out	R740,741 R742,743	0B25519A 0B25519A	RK RK	150 150	1/10W J* 1/10W J*
C307L,R C308L,R	0B43238A 0B42785A		0.068			0308190A	(1)	R744.745	0B25524A	BK	240	1/10W J*
C309L,R	0B43079A			50V K*			(1)	R746,747	0B25524A	RK	240	1/10W J*
C310L,R	0B43083A	CC	0.022	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	240 240	1/10W J*
C312L,R	0B42781A		10 16		Schematic			R752,753 R754,755	0B25524A 0B25524A	RK RK	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*
C314L,R	0B43080A			50V K*		BA09861A	Front P.C.B Ass'y	R760,761	0B25513A	RK	82	1/10W J*
C316L,R	0B43080A			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	0B25539A	RK	1K	1/10W J*
C325L,R	0B42785A		4.7 16		11704	00400704	IC NJU3715G*	R767,768 R769,770	0B25503A 0B25503A	RK	33 33	1/10W J* 1/10W J*
C331 C332,333	0B42789A 0B43064A		47 16 0.01 5		U701 IC701	0B10970A 0B10950A	IC NJU3715G"	R771	0B25539A	RK	1K	1/10W J*
C332,333 C334	0B43064A		0.01 5		IC701	0B10950A	Remote Sensor SBX8035	C701	0B40157A	CE	47 6.	
C339	0B42781A		10 16		Q701,702	0B10972A	TR 2SD1757K*	C702	0B43063A	CC		P 50V J*
C340	0B42783A	CE	22 16	V*	Q703	0B10972A	TR 2SD1757K*	C703,704	0B43092A	CC	0.1 2	5V Z*
C351L,R	0B43063A	CC	1000F	2 50V J*	D701	0B10956A	LED LT1E40A* LED LT1H40A*	LCD701 LP701,702	0B90800A 0B90802A	LCD) p 115m	Δ 51/
C352L,R C353	0B42785A 0B42781A		4.7 16		D702 D703	0B10974A 0B10956A	LED LT1H40A* LED LT1E40A*	CN701	0B84758A		Conne	
C354	0B42783A		22 16		D703	0B10930A	LED LT1H40A*			(US	A, CAN)
C355	0B43064A	CC	0.01 5	50V J*	D705	0B10956A	LED LT1E40A*	CN702	0B84907A		F Con	nector*
C401	0B43064A	CC	0.01 5	50V J*	D 706	0B10974A	LED LT1H40A*			(JPI	۷)	

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)

SW701,702 G870271A Tact Switch	Schematic Ref. No.	Part No).	Descri	otion	Schemati Ref. No.			Donorint	ion
SW703,704 0870271A Tact Switch SW703,706 0870271A Tact Switch SW703,706 0870271A Tact Switch R179,180 0825657A R1 C 24 T100 J. T SW703,710 0870271A Tact Switch R181 0825557A R1 C 24 T100 J. T SW713,714 0870271A Tact Switch R194 0825557A R1 C 24 T100 J. T SW713,714 0870271A Tact Switch R195 0825557A R1 C 24 T100 J. T SW713,714 0870271A Tact Switch R195 0825557A R1 C 24 T100 J. T SW713,714 0870271A Tact Switch R195 0825557A R1 C 24 T100 J. T SW713,714 0870271A Tact Switch R196 0825557A R1 C 24 T100 J. T SW713,714 0870271A Tact Switch R196 0825557A R1 C 24 T100 J. T SW713,714 0870271A Tact Switch R196 0825557A R1 C 24 T100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 24 T100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 24 T100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 24 T100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 24 T100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713,714 0870271A Tact Switch R200 082557A R1 C 100 J. T SW713			_							
SW705,706 0870271A Tact Switch SW707,706 0870271A Tact Switch SW707,706 0870271A Tact Switch SW707,707 0870271A Tact Switch SW707,707 0870271A Tact Switch SW717,174 0870271A Tact Switch SW717,718 0870271A Tact Switch Swi						H145				
SW707,708 0B70271A Tacl Switch R191 0B25553A RK 27K 17/0W J* SW711,712 0B70271A Tacl Switch R191 0B2555A RK 37K 17/0W J* SW711,712 0B70271A Tacl Switch R194 0B2555A RK 37K 17/0W J* SW715,716 0B70271A Tacl Switch R195 0B2555A RK 37K 17/0W J* SW715,716 0B70271A Tacl Switch R196 0B2555A RK 37K 17/0W J* SW711,718 0B70271A Tacl Switch R196 0B2555A RK 37K 17/0W J* SW711,718 0B70271A Tacl Switch R200 0B2555A RK 37K 17/0W J* SW711,712 0B70271A Tacl Switch R200 0B2555A RK 37K 17/0W J* SW711,712 0B70271A Tacl Switch R200 0B2555A RK 37K 17/0W J* SW711,712 0B70271A Tacl Switch R200 0B2555A RK 47K 17/0W J* OB255A RK 37K 17/0W J* OB25A RK 17/0W J*	SW705,706	0B70271	A Ta	act Switc	:h					
SWY03,710 UB/UZ-1/A Tacl Switch H194 UB25553A RK 10X 170W J* SWY15,716 UB70271A Tacl Switch H195 UB25575A RK 33K 170W J* SWY15,716 UB70271A Tacl Switch H196 UB25575A RK 33K 170W J* SWY1719,720 UB70271A Tacl Switch H196 UB25575A RK 33K 170W J* SWY1719,720 UB70271A Tacl Switch H196 UB25575A RK 33K 170W J* SWY1719,720 UB70271A Tacl Switch H196 UB25575A RK 10X 170W J* SWY1719,720 UB70271A Tacl Switch H196 UB25575A RK 10X 170W J* SWY1719,720 UB70271A Tacl Switch H207 UB20271A UB20										
SW713,714 0B70271A Tacl Switch F195 0B25575A RK 33K 1/10W J	SW/09,/10	08/02/1						A RK	27K	1/10W J*
SW715.716 0B70271A Tacl Switch R198 0B25887A RM 1100K 1/10W J- SW719.720 0B70271A Tacl Switch R200 0B2587A RM 1100K 1/10W J- SW719.720 0B70271A Tacl Switch R200 0B2587A RM 1100K 1/10W J- SW719.720 0B70271A Tacl Switch R200 0B2587A RM 1100K 1/10W J- SW719.720 0B70271A Tacl Switch R200 0B2587A RM 100K 1/10W J- SW719.720 0B70271A Tacl Switch R200 0B2587A RM 100K 1/10W J- OLO7987B LCD Holder (1) R201 0B2585A RK 10K 1/10W J- OL07987B LCD Holder (1) R210 0B2585A RK 10K 1/10W J- OL07987B LCD Holder (1) R210 0B2585A RK 10K 1/10W J- OL07987B LCD Holder (1) R210 0B2585A RK 10K 1/10W J- OL07987B LCD Holder (1) R210 0B2585A RK 10K 1/10W J- OL08171A REM CUshion (1) R210 0B2585A RK 10K 1/10W J- OL0819A Conductor Sheet A (1) R210 0B2585A RK 10K 1/10W J- OL0819A Conductor Sheet A (1) R210 0B2585A RK 10K 1/10W J- OL0820A LCD W Face (1) R801LR 0B2615A RM 12K 1/10W F- OL0820A LCD W Face (1) R801LR 0B2615A RM 12K 1/10W F- OL0820A LCD W Face (1) R801LR 0B2615A RM 12K 1/10W F- OL0820A LCD W Face (1) R801LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R801LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R801LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R801LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R801LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R802LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R802LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R802LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R802LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R802LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R802LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R802LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R802LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R802LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R802LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R802LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R802LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R802LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R802LR 0B2615A RM 10X 1/10W F- OL0820A LCD W Face (1) R802LR 0B2615A RM 10X 1/10W	SW713.714	0B70271								
SW719,716 0B702714 Tacl Switch R190 0B213214 R8M 100 1/10W F- SW719,720 0B702714 Tacl Switch R200 0B25579A RK 17K 1/10W F- SW721,722 0B702714 Tacl Switch R200 0B25579A RK 17K 1/10W F- SW721,722 0B702714 Tacl Switch R200 0B25579A RK 17K 1/10W F- SW721,722 0B702714 Tacl Switch R200 0B25579A RK 17K 1/10W F- OLO798B LD CD Holder (1) R201 0B25563A RK 10K 1/10W J- OL0798B LOD Holder (1) R210 0B25563A RK 10K 1/10W J- OL0798B LOD Holder (1) R210 0B25563A RK 10K 1/10W J- OL0798B LOD Holder (1) R210 0B25563A RK 10K 1/10W J- OL081714 REM Cushion (1) R811 L12 0B25653A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A RM 12K 1/10W F- OL081714 REM Cushion (1) R801,LR 0B2515A R										
SW719,720 0B70271A Tacl Switch R200 0B25570A RK 1, 47K 1/10W J* SW721,725 0B70271A Tacl Switch R207 0B20570A RK 1, 5K 1/10W J* SW721,725 0B70271A Tacl Switch R208 0B25550A RK 1, 5K 1/10W J* Children R209 0B2550A RK 1, 5K 1/10W J										
SW721,722 0B70271A SW721 0B70271A SW				ct Switc	h					
Control Cont										1/10W*
Controller(1)	SW723									1/10W J*
Control Cont				minator	Sheet (1)					
O.007988A C.D. Rellector (1) C.008193A C.D. REM Cushion (1) C.008193A C.D. Conductor Sheet A (1) C.008193				D Holde	97 (1) /4)					
O.008171A REM Cushion (1) O.008200A C.004 Conductor Sheet A (1) O.008200A C.00 W Face (1) C.0081830 REM 2004 C.0081830 REM 2004 RE			LC	D Refle	ctor (1)			HK		1/10W*
O.008193A Conductor Sheet A (1) Colored		0J08171A	N RE	M Cush	ion (1)					1/10W F
Company Comp			∖ Co	nductor	Sheet A (1)					1/10W F*
Color		0J08200A	LC.	D W Fa	ce (1)	R804L,R				
Schematic Ref. No. Part No. Part No. Description						R805L,R			100	1/8W F*
Schematic Ref. No. Part No. Description C104 0843902A C2 22 feV C105 0843902A C3 23 FoV C109 0843902A C3 C3 C3 C3 C3 C3 C3 C	7.3. CD P.C	R Agg'u								
Part No. Part No. Description C105		D. Ada y								
BA09877 CD P.C.B. Ass 'y C109 OB43066A CC 33P 50V J'					*				2.2 16\	/* /
U101 0B10691A IC CXA2521Q* C110 0B4302A CC 0.125V Z* U102 0B10949A IC CXA252TQ* C111 0B4302A CC 0.125V Z* U103 0B10947A IC BAS97ZFP* C111 0B4262A CC 0.2216V J* U104 0B10942A IC BAS97ZFP* C112 0B430B0A CC 4700P 50V K* U104 0B10942A IC BAS97ZFP* C114 0B4309A CC 4750P 50V K* U105 0B10953A IC TC4W53FU* C115 0B432BA CC 309 50V J* U105 0B10731A TR 2SB113Z* C116 0B439BA CC 309 50V J* U105 0B10731A TR 2SB113Z* C116 0B439BA CC 309 50V J* U104 0B10953A IC TC4W53FU* C115 0B432BA CC 309 50V J* U105 0B10731A TR DTC144TK* C118 0B4309A CC 0.125V Z* U102 0B10862A TR DTC144TK* C118 0B4307A CC 680P 50V J* U101 0B10731A TR DTC144TK* C118 0B4307A CC 680P 50V J* U101 0B10639A SID MA152WK* C120 0B430BAA CC 0.01 50V J* U101 0B10639A SID MA152WK* C120 0B430BAA CC 0.01 50V J* U101 0B10639A SID MA152WK* C120 0B430BAA CC 0.01 50V J* U101 0B1300A Inductor 10uH C122 0B4300A CC 220P 50V J* U101 0B300A Inductor 10uH C122 0B4300A CC 220P 50V J* U101 0B3040A CO 1120H* C122 0B4300A CC 220P 50V J* U101 0B21321A RM 10 1/10W J* C126 0B4322A CC 1500P 50V K* U101 0B21321A RM 10 1/10W J* C126 0B4302A CC 0.125V Z* U101 0B21321A RM 10 1/10W J* C126 0B4302A CC 0.125V Z* U101 0B2557A RK 22K 1/10W J* C126 0B4302A CC 0.125V Z* U101 0B2555A RK 31K 1/10W J* C132, 133 0B4302A CC 0.125V Z* U101 0B2555A RK 31K 1/10W J* C132, 133 0B4302A CC 0.125V Z* U101 0B2555A RK 31K 1/10W J* C132, 133 0B4302A CC 0.125V Z* U101 0B2555A RK 31K 1/10W J* C144 0B4259BA CC 0.0150V J* U101 0B2555A RK 31K 1/10W J* C144 0B4259BA CC 0.0150V J* U101 0B2555A RK 31K 1/10W J* C145 0B4302A CC 0.125V Z* U101 0B2555A RK 31K 1/10W J* C145 0B4302A CC 0.125V Z* U101 0B2555A RK 31K 1/10W J* C145 0B4302A CC 0.125V Z* U101 0B2555A RK 31K 1/10W J* C145 0B4302A CC 0.125V Z* U101 0B2555A RK 31K 1/10W J* C145 0B4302A CC 0.125V Z* U101 0B2555A RK 31K 1/10W J* C145 0B4302A CC 0.125V Z* U101 0B2555A RK 31K 1/10W J* C145 0B4302A CC 0.125V Z* U101 0B2555A RK 31K 1/10W J* C145 0B4302A CC 0.125V Z* U101 0B2555A RK 31K 1/10W J* C145 0B4302A CC 0.125V Z* U101 0B2555A RK 31K 1/10W J* C145 0B4302A CC 0.125V Z* U	Her. No.									
U101 0B10691A IC CX22521Q* C111 0B43092A CC 0.1 25V Z* U102 0B10948A IC CXD2557Q* C112 0B430B0A CC 470P 50V K* U103 0B10947A IC BAS97ZFF* C114 0B430B0A CC 470P 50V K* U105 0B10953A IC TC4WSFU* C116 0B430B0A CC 470P 50V K* U105 0B10953A IC TC4WSFU* C116 0B430B0A CC 47P 50V J* U105 0B10953A IC TC4WSFU* C116 0B430B0A CC 47P 50V J* U105 0B10953A IC TC4WSFU* C116 0B430B0A CC 47P 50V J* U105 0B10953A IT DTC114TKA* C117 0B43216A CC 330P 50V J* U105 0B10953A IT DTC114TKA* C117 0B43216A CC 330P 50V J* U101 0B10139A SID MATSZWK* C110 0B43092A CC 0.1 25V Z* U101 0B10539A SID MATSZWK* C120 0B43064A CC 0.01 50V J* U101 0B10539A SID MATSZWK* C120 0B43064A CC 0.1 50V J* U101 0B51300A Inductor 10UH C122 0B42073A CE 0.47 50V J* U101 0B50974A Resonator 16.93MHz C121 0B42793A CE 0.47 50V J* U101 0B205571A RM 10 1/10W J* C122 0B43092A CC 0.1 25V Z* U101 0B25571A RK 22K 1/10W J* C125 0B43092A CC 0.1 25V Z* U101 0B25551A RK 21K 1/10W J* C126 0B43092A CC 0.1 25V Z* U101 0B25551A RK 21K 1/10W J* C132, 133 0B43092A CC 0.1 25V Z* U101 0B25551A RK 21K 1/10W J* C132, 133 0B43092A CC 0.1 25V Z* U107, 108 0B25551A RK 21K 1/10W J* C132, 133 0B43092A CC 0.1 25V Z* U101 0B25551A RK 21K 1/10W J* C132, 133 0B43092A CC 0.1 25V Z* U101 0B25551A RK 21K 1/10W J* C132, 133 0B43092A CC 0.1 25V Z* U101 0B25551A RK 21K 1/10W J* C132, 133 0B43092A CC 0.1 25V Z* U101 0B25551A RK 21K 1/10W J* C144 0B4308A CC 0.002 50V K* U101 0B25551A RK 31K 1/10W J* C145 0B43092A CC 0.1 25V Z* U101 0B25551A RK 31K 1/10W J* C145 0B43092A CC 0.1 25V Z* U101 0B25551A RK 31K 1/10W J* C145 0B43092A CC 0.1 25V Z* U101 0B25551A RK 31K 1/10W J* C145 0B43092A CC 0.1 25V Z* U101 0B25551A RK 31K 1/10W J* C145 0B43092A CC 0.1 25V Z* U101 0B25551A RK 31K 1/10W J* C145 0B43092A CC 0.1 25V Z* U101 0B25551A RK 31K 1/10W J* C145 0B43092A CC 0.1 25V Z* U101 0B25551A RK 31K 1/10W J* C145 0B43092A CC 0.1 25V Z* U101 0B25551A RK 31K 1/10W J* C145 0B43092A CC 0.1 25V Z* U101 0B25551A RK 31K 1/10W J* C145 0B43092A CC 0.1 25V Z* U101 0B25551A RK 31K 1/10W J* C145 0B43092A CC 0.1 25V Z* U101 0B25		BA09857/	A CD	P.C.B.	Aşs'y					
U102	LIKOA	0010011								
U103								CC		
U104									4700P	50V K*
United OB10953A C						C113				
Color										
Q102		0B10731A	TR							
G104 G19401832									330P 50	ν.ι*
December		0B10652A	TR						680P 50	OV J*
Did		0B14013A	IH						0.1 25V	Z*
L101							0B43064A			
Class							0B42793A			
X101 0B90794A Resonator 16.93MHz C124 DB43221A CC 0.047 25V K*	L102,103									
VPHO1, 100 OB30212A Semi VR 22K' PRO1 OB21921A RM 10 1/10W FROM PRO1 OB21921A RM 10 1/10W FROM OB21921A RM OB2				onator*	16.93MHz					
R101 DB21321A HM 10									47 6.3V	
R103										
R104										
R105,106										
R107,108	R105,106	0B25562A								
1/100						C135.136				
R1110						C137,138	0B43207A			
112							0B43084A			
R113									0.022 50	V K*
R114		0B25571A								
R116 OB25569A RK 10K 1/10W J* C147 OB43084A CC O.01 50V J*										
H116 OB25587A RK 100K 1/10W J* C148 OB43092A CC O.1 25V Z*		0B25563A								
H117					1/10W J*					
The content of the					1/10W J*					_
R121,122									4700P 5	DV K*
R123,124 OB25560A RK 7.5K 1/10W J* C801LR C802LR R125,126 OB25567A RK 15K 1/10W J* C802LR C803LR C										
R125,126 OB25567A RK 15K 1/10W J* C802LR C8										
R127,128 OB25550A RK 7.5K 1/10W P129,130 OB2559A RK 47K 1/10W P129,130 OB2559A RK 47K 1/10W P131,132 OB25569A RK 10K 1/10W P133 OB25569A RK 10K 1/10W P134 OB25560A RK 10K 1/10W P135 OB25560A RK 10K 1/10W P135 OB25560A RK 10K 1/10W P136 OB25560A RK 1/10W P136 OB25560A RK 10K 1/10W P136 OB25660A RK 1/10W P136 OB2560A RK 1/10W P136 OB25660A RK 1/10W P136 OB25660A RK 1/10W P136 OB25660A RK 1/10W P136 OB25660A RK 1/10							0B43196A			
R129,130 OB25579A RK 47K 1/10W J* CN101 OB84872A 12P F Connector*				7.5K						V J^
18			RK		1/10W J*				Connect	or*
10						CN102		6P F	Connecto	r*
R135 OB25580A RK 51K 1/10W J* TP136 OB24584A RK 75K 1/10W J* TP36 OE25584A RK 10K 1/10W J* OE25574A RK 22K 1/10W J* OE25574A RK 22K 1/10W J* OE25574A RK 22K 1/10W J* OE25594A RK 130K 1/10W J* OE25594A RK 1/10W J* OE2559							0B84908A	13P F	Connect	or*
R138								24P C	onnector	Header
R138 0R25515A RK 100 1/10W J* 0J08127B P.C.B. Holder A (2) R141 0R25555A RK 4.7K 1/10W J* 0J08127B P.C.B. Holder A (2) R142 0R2555A RK 22K 1/10W J* R142 0R2555A RK 1/10W J* R143 0R255A RK 1/10W J* R143 0R255A RK 1/10W J* R144 0R25A RK 1/10W J* R145 0R2		B25584A				1P136		5P S-I	Post	
R139 0B25563A RK 10K 1/10W J* R141 0B2555A RK 4.7K 1/10W J* R142 0B2557A RK 22K 1/10W J* R143 0B25590A RK 130K 1/10W J*	R138 · 0	B25515A						M2.6x) Pan + Pan +	2)
R141 OB25555A RK 4.7K 1/10W J* R142 OB2557A RK 22K 1/10W J* R143 OB25590A RK 130K 1/10W J*				10K			0000 12/B	r.U.B	. Holder A	(2)
R143 0B25590A RK 130K 1/10W J*				4.7K	1/10W J*					
Barre William Cont. Wilder										
AMPROVED IN THE TAX INTOWN OF										
					1, 1044 J					

Schematic Ref. No.

[Power Amp. Ass'y]

7.4. Power Amp. — Main P.C.B. Ass'y

Part No.	Description
BA09845A	Main P.C.B. Ass'y
0B17086A	IC TA8260H
0B25539A	RK 1K 1/10W J*
0B25539A	RK 1K 1/10W J*
0B25539A	BK 1K 1/10W J*
0B43240A	CC 0.22 25V Z*
0B43240A	CC 0.22 25V Z*
0B42781A	CE 10 16V*
0B42780A	CE 1 35V*
0B43092A	CC 0.1 25V Z*
0B42815A	CE 47 20V*
0B43064A	CC 0.01 50V J*
0B84867A	Post-S 8P XH (White)
0B84904A	5P Ribbon Cable A (1)
0B84905A	5P Ribbon Cable B (1)
	BA09845A 0B17086A 0B25539A 0B25539A 0B25539A 0B43240A 0B43240A 0B42781A 0B42780A 0B43084A 0B43084A 0B84867A

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	1	System reset signal.
2	XTAL	XTAL	T_	System clock (16 MHz).
3	EXTAL	EXTAL	<u> </u>	System clock (16 MHz).
4	VCCB	VCCB	 	+5V.
- 5	MD1	MD1	17	MPU mode select signal-1.
6	MD0	MD0	1	MPU mode select signal-2.
7	CLOCK	CLOCK	1	Clock pulse for counting the "Clock".
8	FVPP/ST	FVPP/ST	-	VPP (+5V) signal.
9	vcc	VCC	+_	+5V.
10	LOCK-PIN	LOCK-PIN	1	Disc lock pin position (up/down) detecting signal. H: Up position (disc locked)
			+ -	Traverse position (front/rear) detecting signal. H: Rear position.
11	TRPOSMOV	TRPOSMOV	 	Clock pulse from CDC.
12	CLKIN	CLKIN	 !	Data signal from CDC.
13	DATAIN	DATAIN	10	Reset signal to clock IC.
14	CLR	CLR	1-0	GND.
15	VSS	VSS	+=	Traverse mechanism motor drive signal-1.
16	MTR1	MTR1	<u> </u>	
17	P96	P96	1 -	(Not used.) Loading belt/stocker motor drive signal-1.
18	MSTLD1	MSTLD1	0	Loading belt/stocker motor drive signal-2.
19	MSTLD2	MSTLD2	0	
20	ST-PLAY	ST-PLAY	<u> </u>	Stocker play position signal. Stocker home position signal. H: Home position.
21	ST-REF	ST-REF	1 !	Traverse mechanism motor drive signal-2.
22	MTR2	MTR2	0	
23	BSENS	BSENS	1 -	Battery voltage sensing signal.
24	ASENS	ASENS	44	ACC voltage sensing signal. Sub-Q interrupt signal from DSP (Digital Signal Processor) IC.
25	SCOR	SCOR		
26	CLAMPER	CLAMPER	1 -	Clamper plate clamping signal. H: Clamping
27	TEMP	TEMP	1	(Not used.)
28	REMIN	REMIN		Remote control signal.
29	ST-PLS	ST-PLS		Stocker pulse.
30	LD-PLT1	LD-PLT1		Loading cam plate position signal-1.
31	LD-PLT2	LD-PLT2		Loading cam plate position signal-2.
32	TRUD-PLS	TRUD-PLS	1	Traverse up/down pulse.
33	LDC-PLS	LDC-PLS		
34	P-ARM1	P-ARM1		
35	P-ARM2	P-ARM2		Loading guide position signal-2. L: No disc
36	AVREF	AVREF	=	- +5V.
37	AVCC	AVCC		- +5V.
38	KIO	KI0		
39	KI1	KI1		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.)

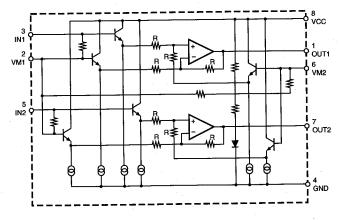


Fig. 8.1 Ground Isolation Amp. BA3121F (U303, 304)

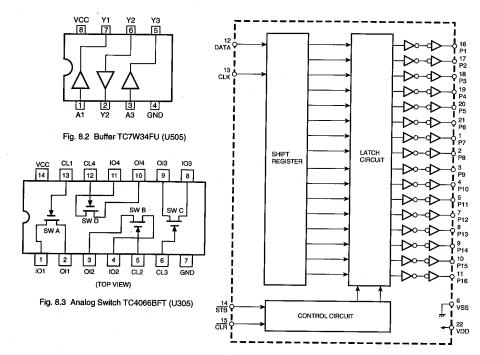


Fig. 8.4 LED Driver NJU3715G (U701)

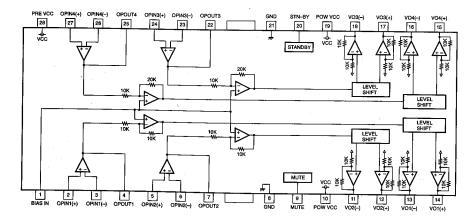


Fig. 8.5 Driver BA5972FP (U103)

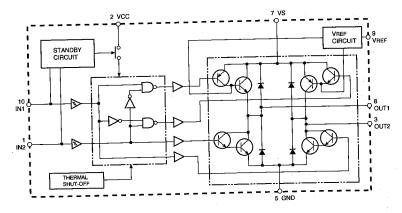


Fig. 8.6 Motor Driver TA8409F (U106, 107, 108)

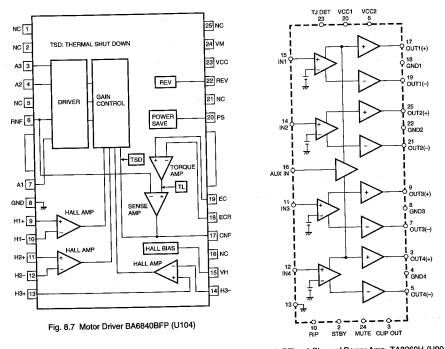


Fig. 8.8 BTL x 4 Channel Power Amp. TA8260H (U901)

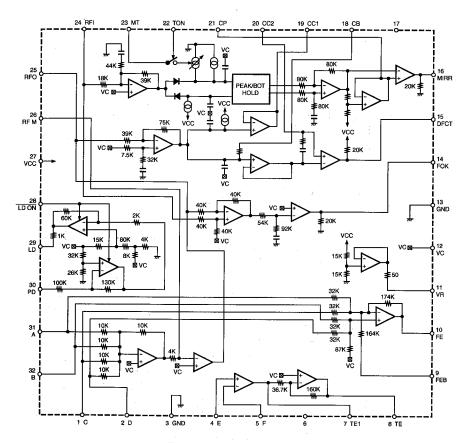


Fig. 8.9 RF Amp. CXA2521Q (U101)

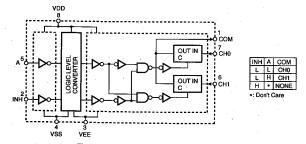


Fig. 8.10 Selector TC4W53FU (U105)

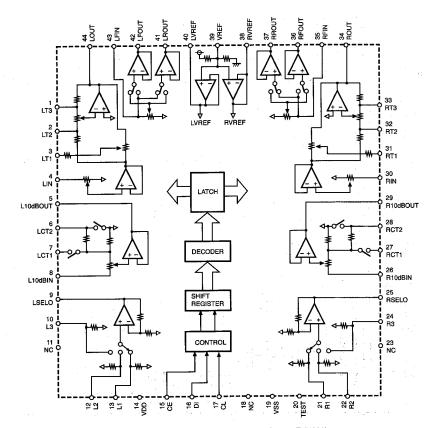


Fig. 8.11 Electronic Volume IC LC75372E (U301)

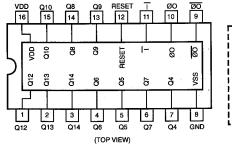


Fig. 8.12 14-Stage Counter/Oscillator TC4060AF (U503)

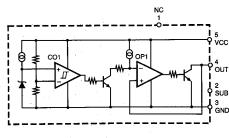


Fig. 8.13 Voltage Detector PST9142NR (U502)

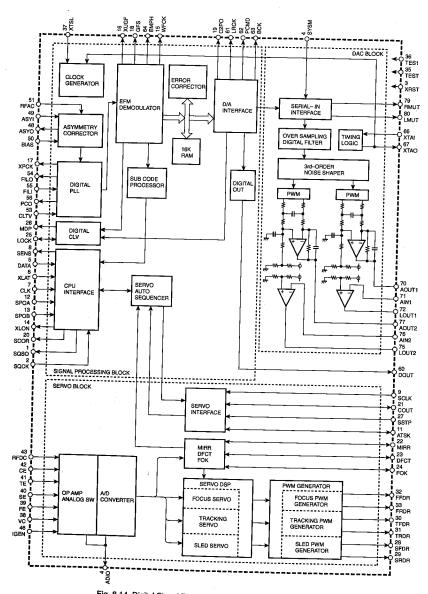


Fig. 8.14 Digital Signal Processor CXD2587Q (U102)

9. BLOCK DIAGRAM

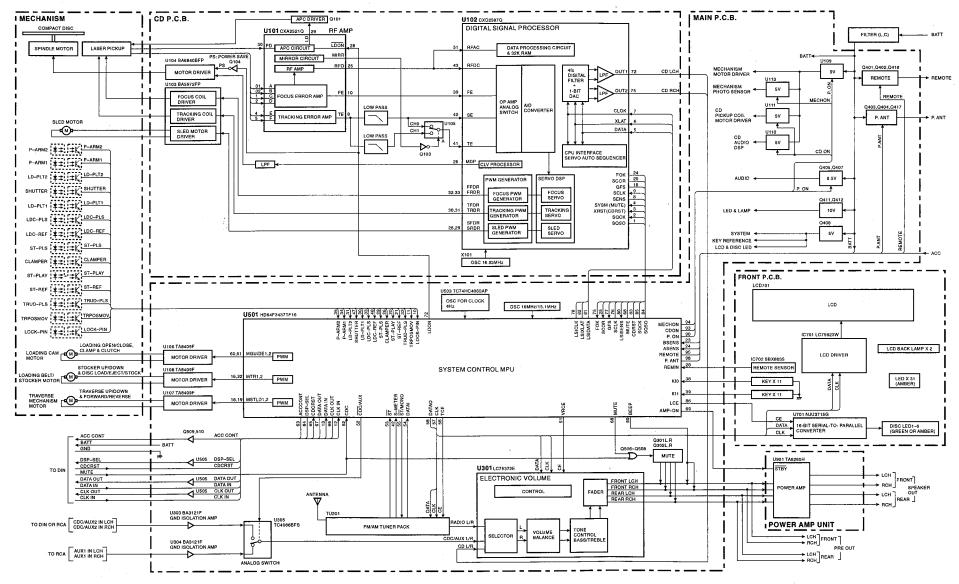


Fig. 9

10. SCHEMATIC DIAGRAMS

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

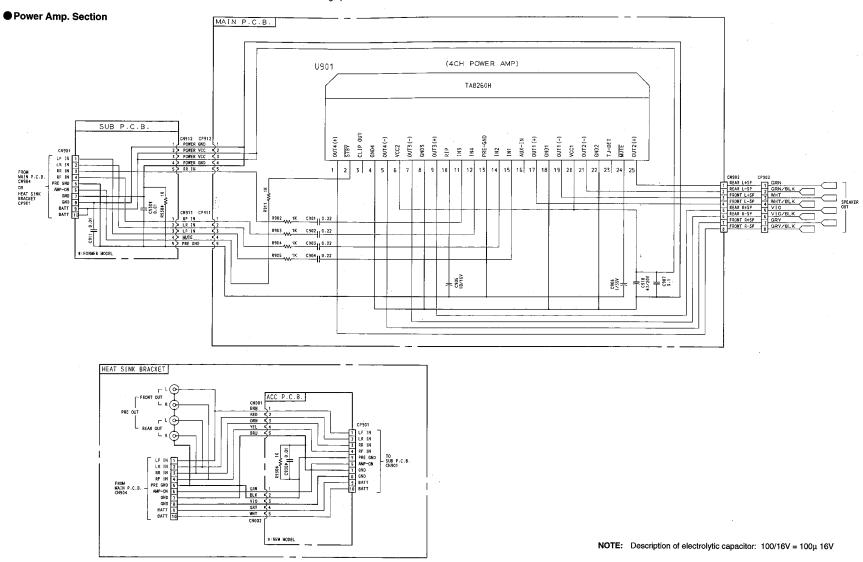


Fig. 10

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)

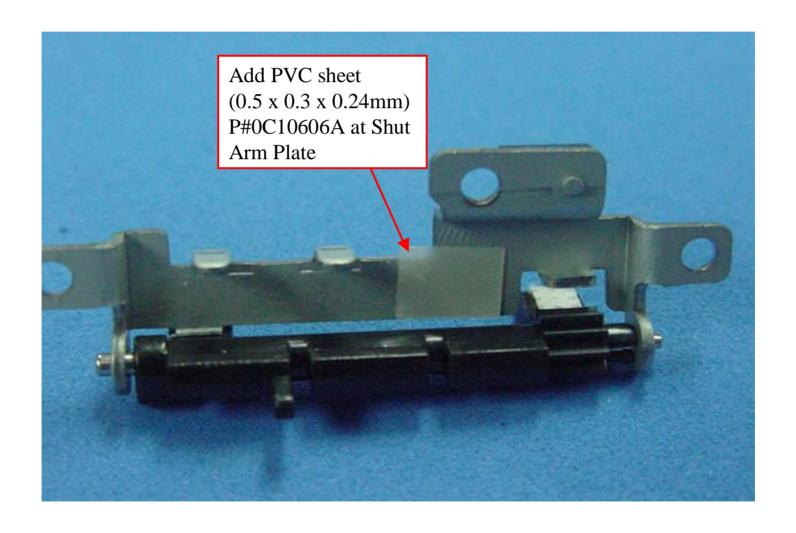
- Dimensions do not include protruding parts. Height is the panel height.
- Specifications and design are subject to change for further improvement without notice.
- MusicBank is a registered trademark of Nakamichi Corporation.



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

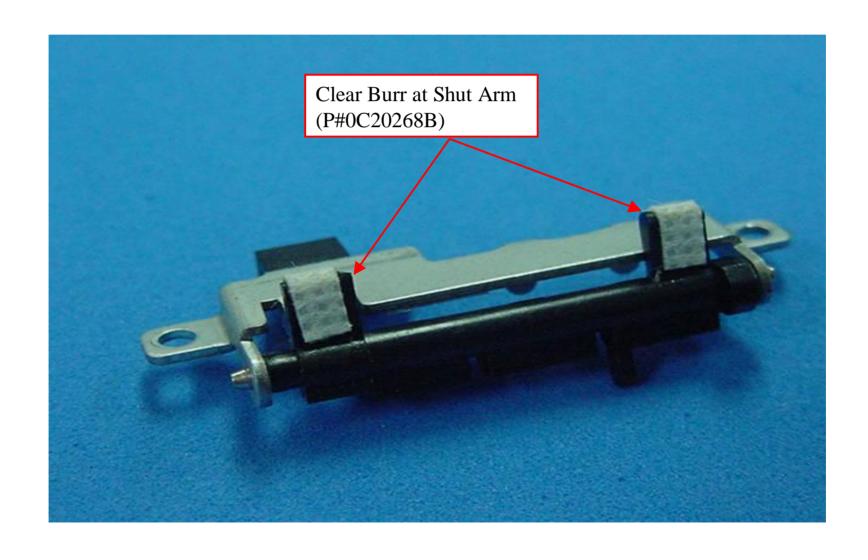


1(i) Prevent CD Auto Eject: Shutter sensor is not activated properly (Loading Ass'y)



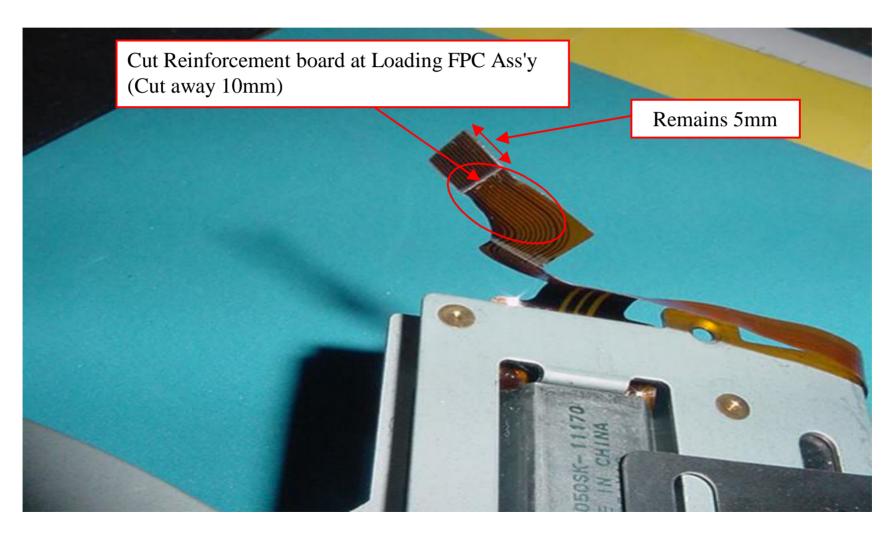


1(ii) Prevent CD Auto Eject: Shutter sensor is not activated properly (Loading Ass'y)



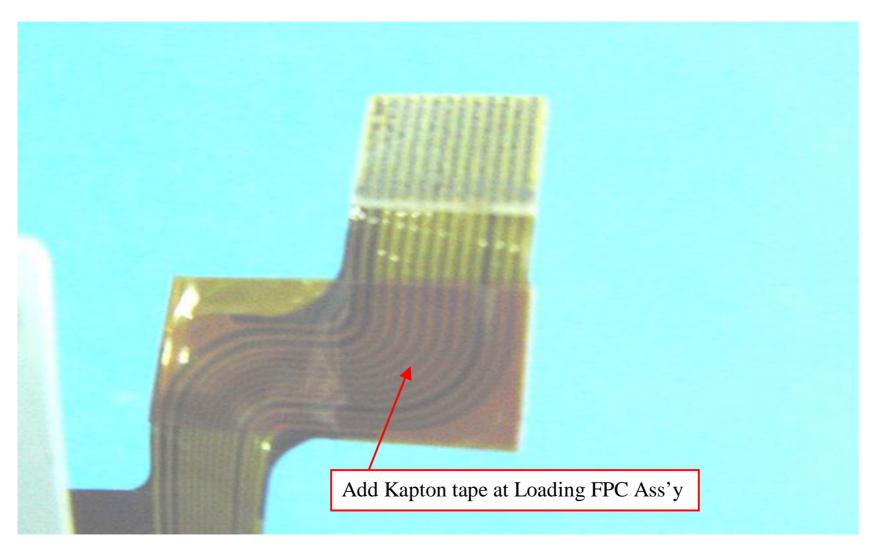


2(i) Prevent E-mecha: bad solder joint due to insertion force at CN107 (Main PCB Ass'y) Resolder or replace CN107 for repair



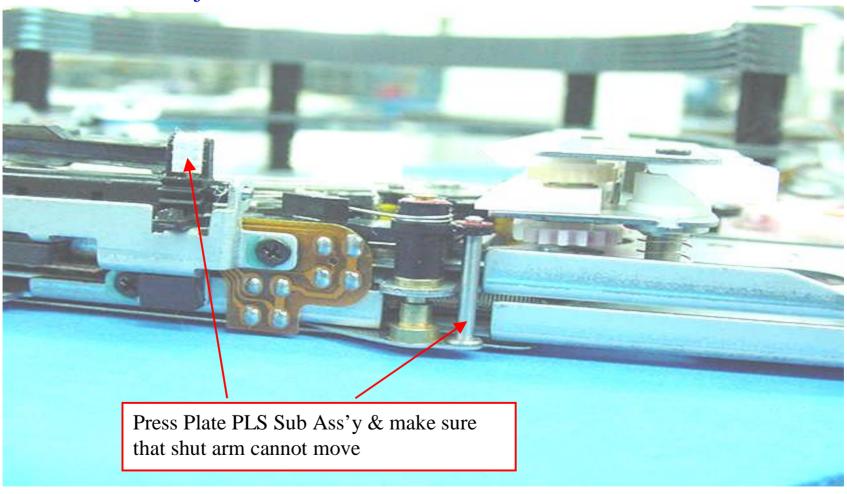


2(ii) Strengthen Loading FPC Ass'y (Loading Ass'y)



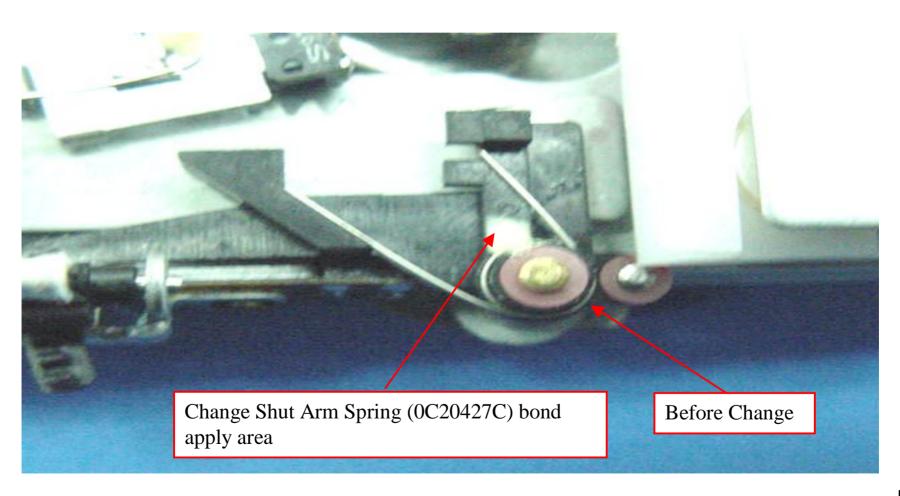


3(i) Prevent E-mecha: loading CAM Mechanism jamming (Loading Ass'y)
If it moves, check if the 3 teeth of the shut arm rack comes out when shut arm is in vertical position.
If no, re-adjust the shut arm.



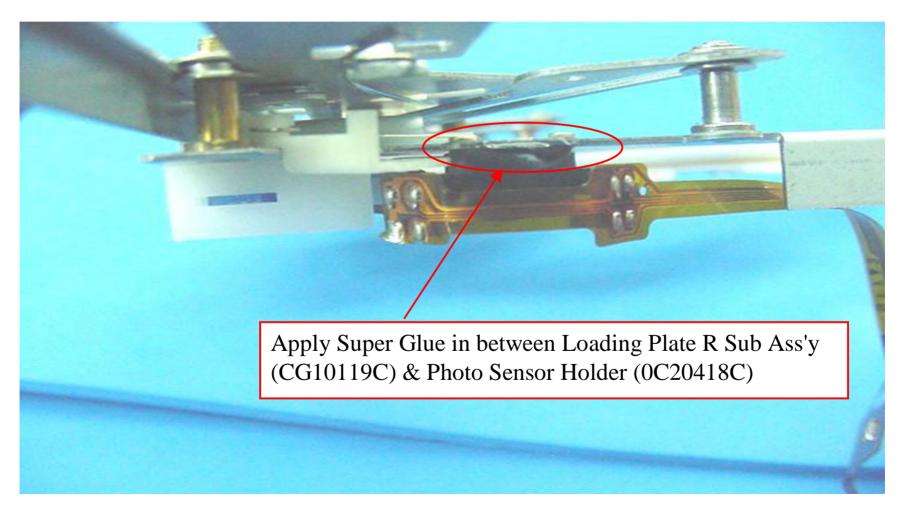


3(ii) Prevent E-mecha: shut arm movement not smooth (Loading Ass'y)



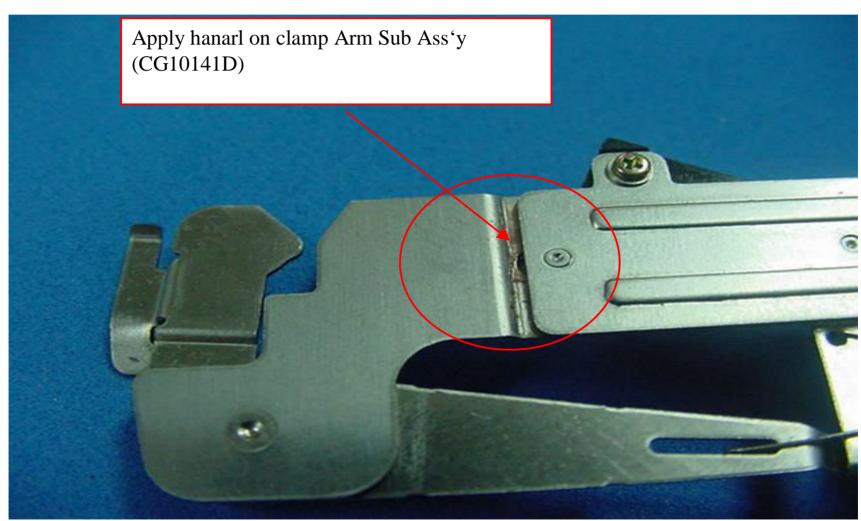


3(iii) Prevent E-mecha: loading CAM Mechanism jamming (Loading Ass'y) (6 Disc Mechanism)



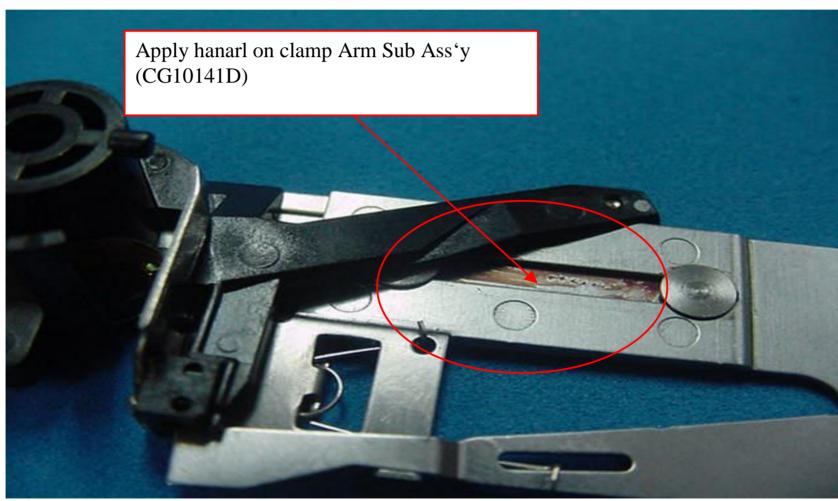


4(i) Prevent E-mecha: clamper arm does not catch clamp plate (Clamper Ass'y)



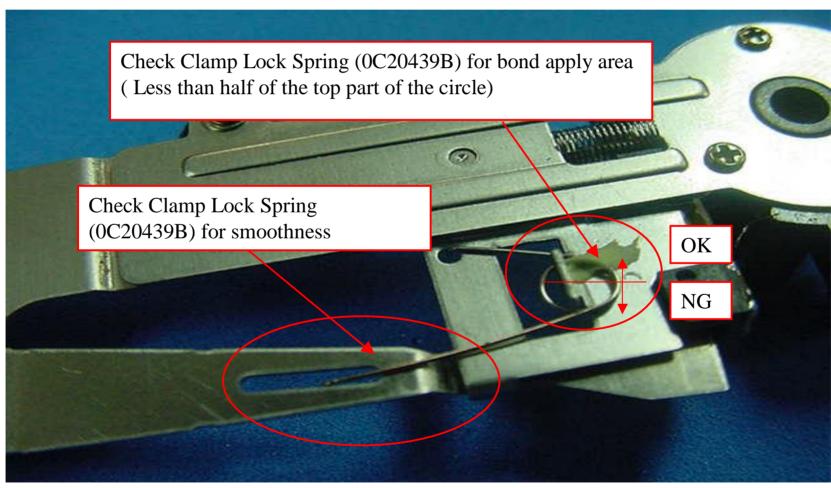


4(ii) Prevent E-mecha: clamper arm does not catch clamp plate (Clamper Ass'y)





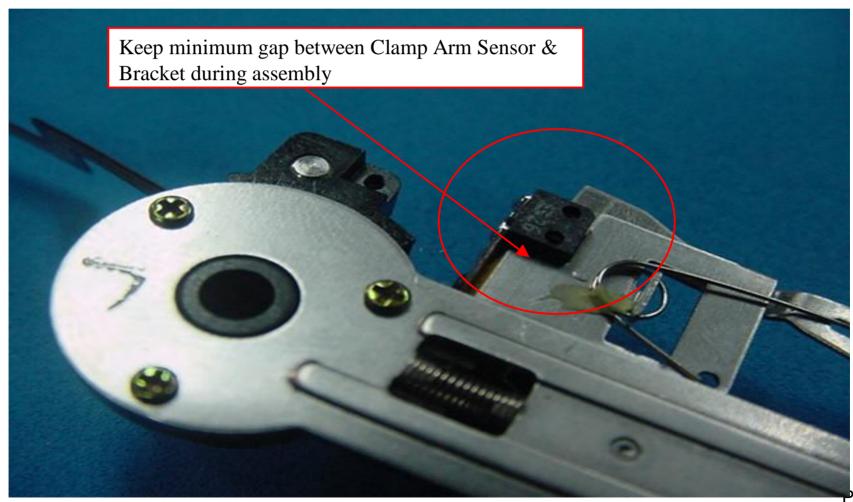
4(iii) Prevent E-mecha: clamper arm does not catch clamp plate (Clamper Ass'y)





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

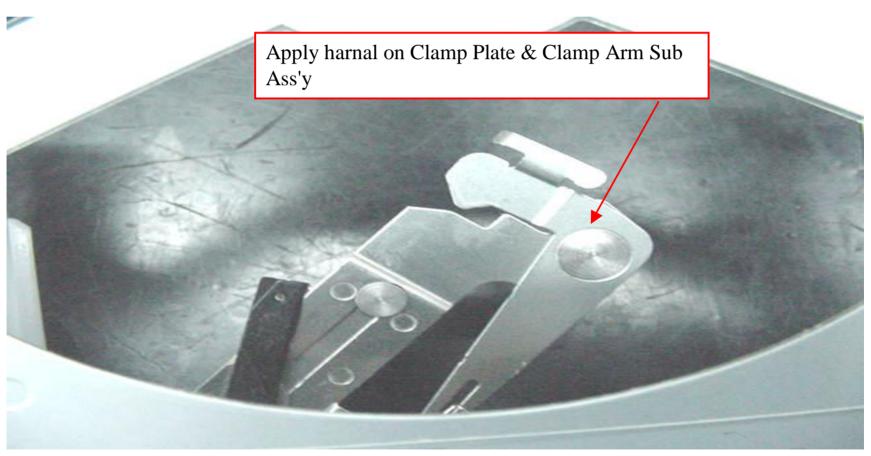
Change clamp arm sensor if the gap is too big.



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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)





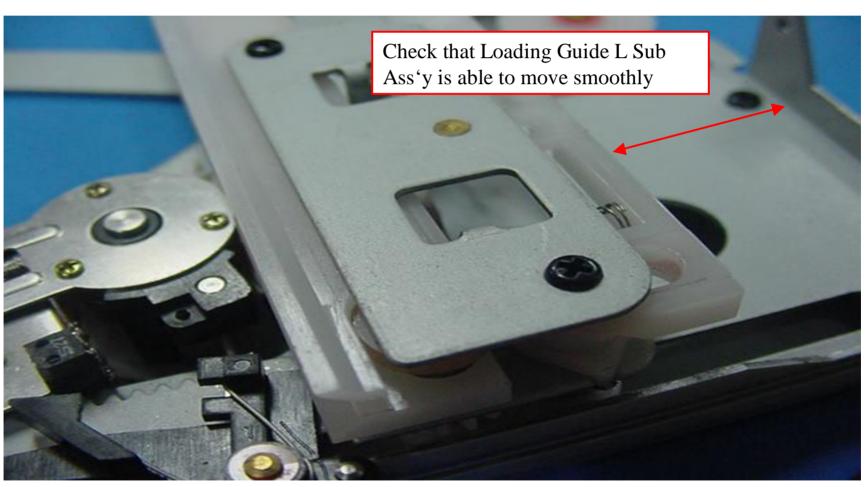
4(vii) Prevent E-mecha: clamper arm does not catch clamp plate (Clamper Ass'y)





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

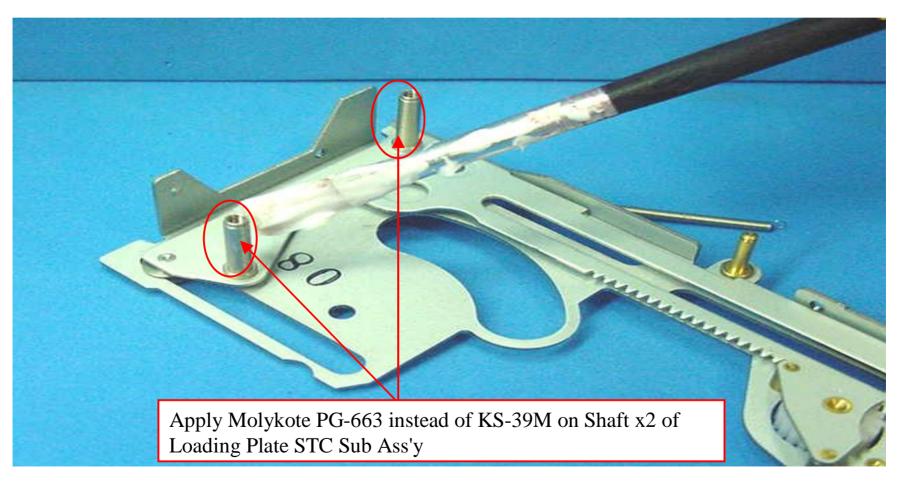
(Loading guide Ass'y)





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

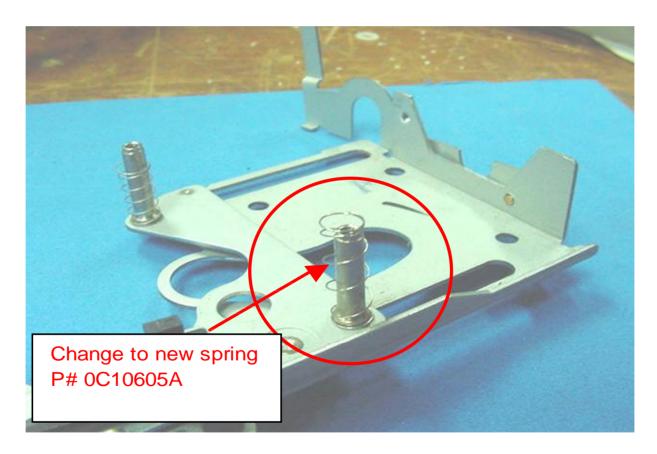
(Loading guide Ass'y)





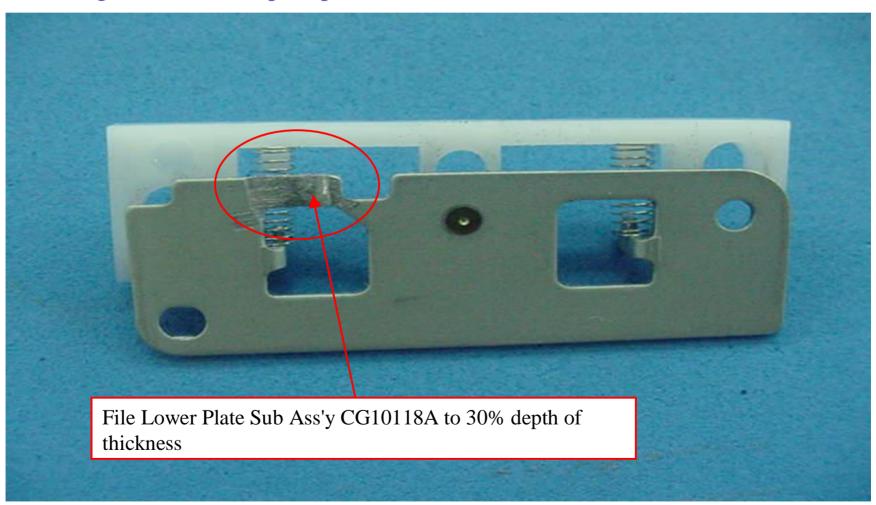
5(iii) Prevent E-mecha: loading guides does not hold disc correctly when closed

(Loading guide Ass'y)



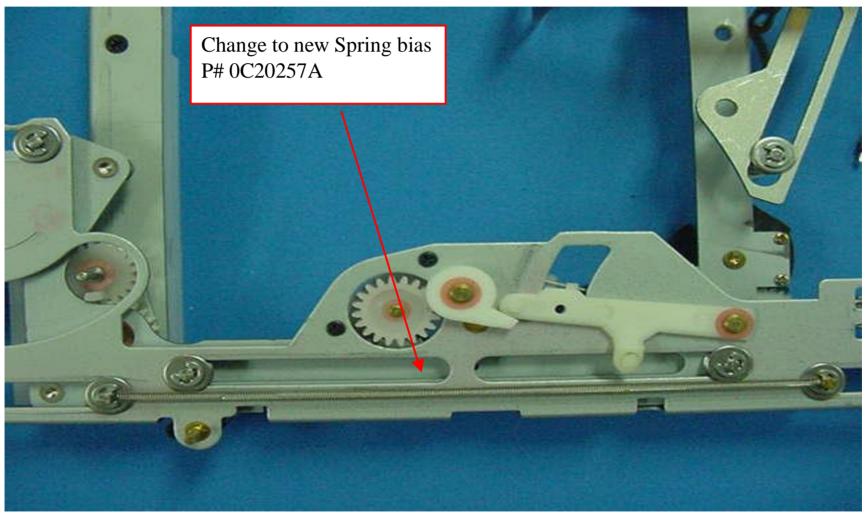


5(iv) Prevent E-mecha: lower plate sub ass'y may touch to traverse vertical screw during disc change (Loading guide Ass'y)
Change to modified spare part



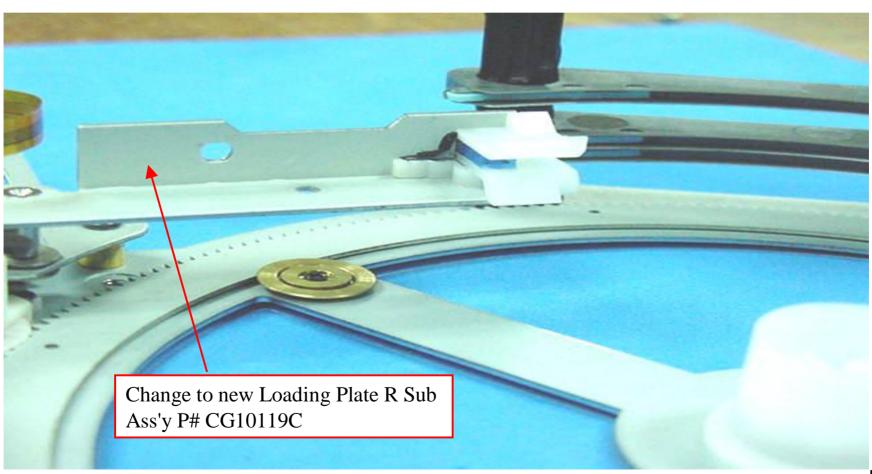


6 Improve 8cm Disc Eject: 8cm Disc does not eject (Loading guide Ass'y)



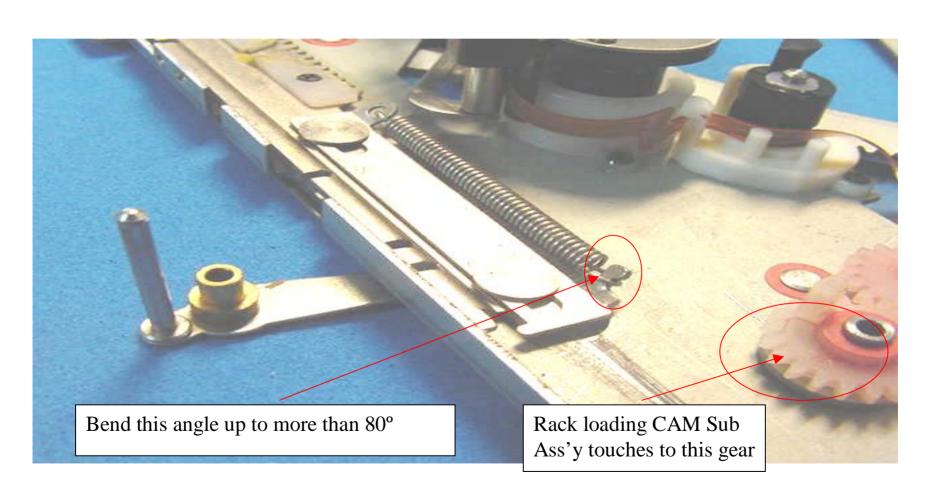


7 Prevent E-mecha: loading guide R touches to lock guide top (Loading Guide Ass'y)



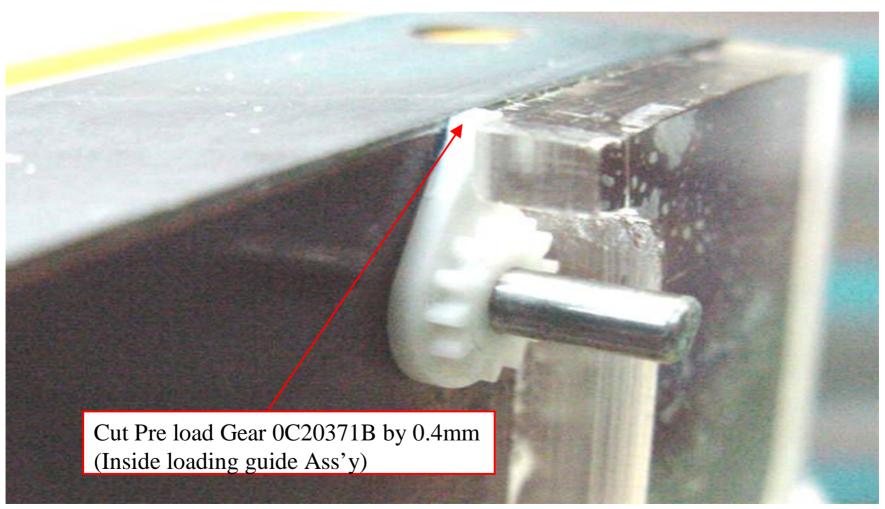


8 Prevent E-mecha: loading guide jamming (Loading Guide Ass'y)



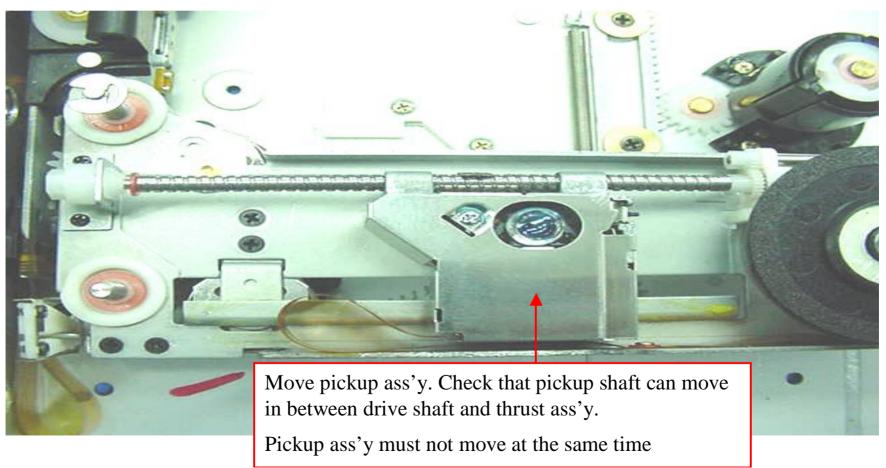


9 Prevent E-mecha: eject jamming (Loading Guide Ass'y) Change to modified spare part





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



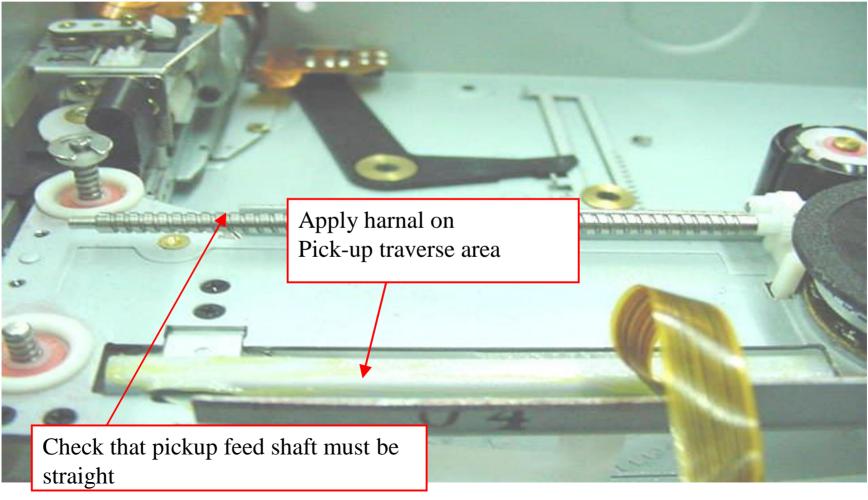


10(ii) Prevent CD skip: CD skip at low temperature (Traverse Mecha Chassis Ass'y)
When fixing Pickup Feed Shaft into Drive Shaft Guide Ass'y, make sure the Pickup feed shaft must be straight

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)



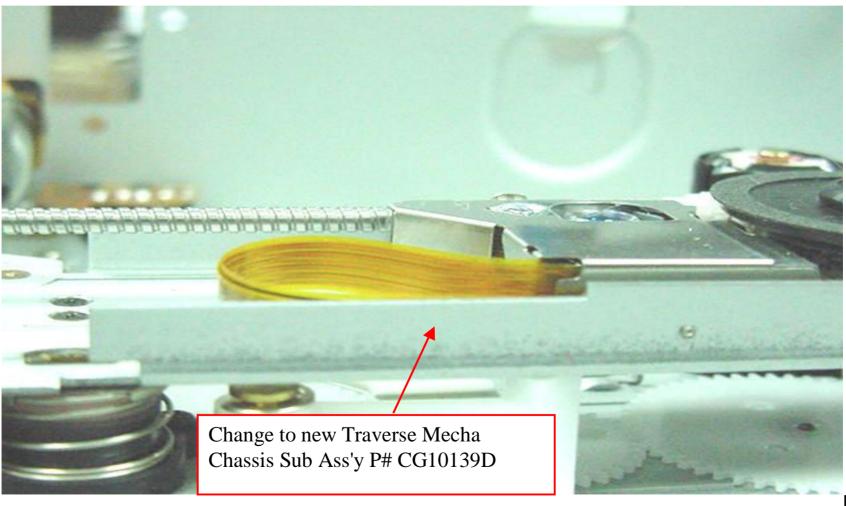
10(ii) & 10(iii) Prevent CD skip: CD skip at low temperature (Traverse Mecha Chassis Ass'y)



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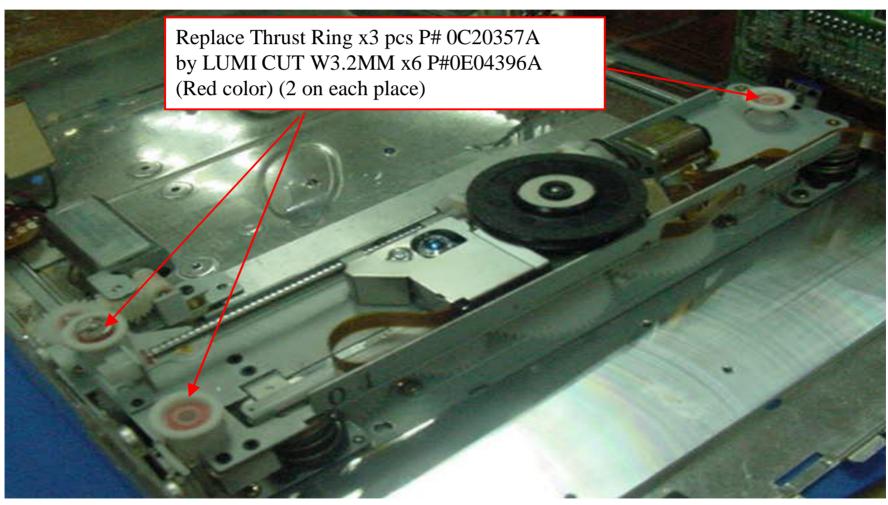
11 Prevent E-mecha: loading guide L touches to traverse mecha chassis ass'y (Traverse Mecha Chassis Ass'y)



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

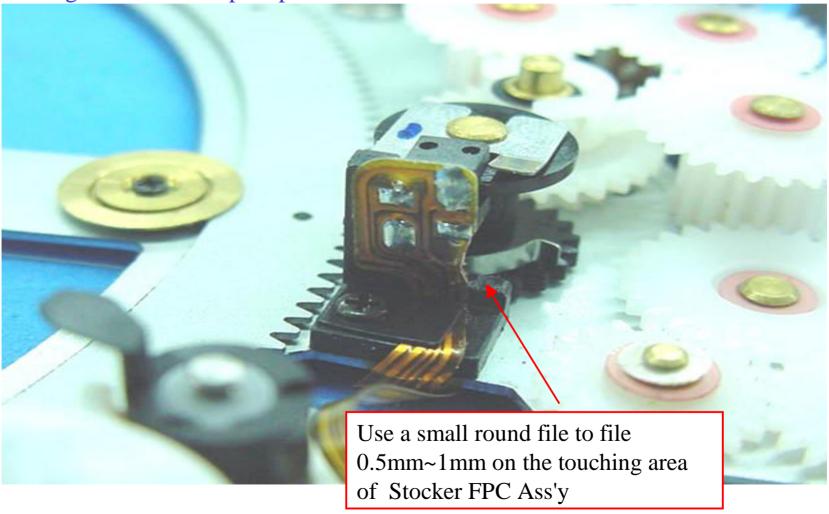




13 Prevent E-mecha: stocker FPC ass'y touches with loading roller guide ass'y (Loading Chassis Ass'y)

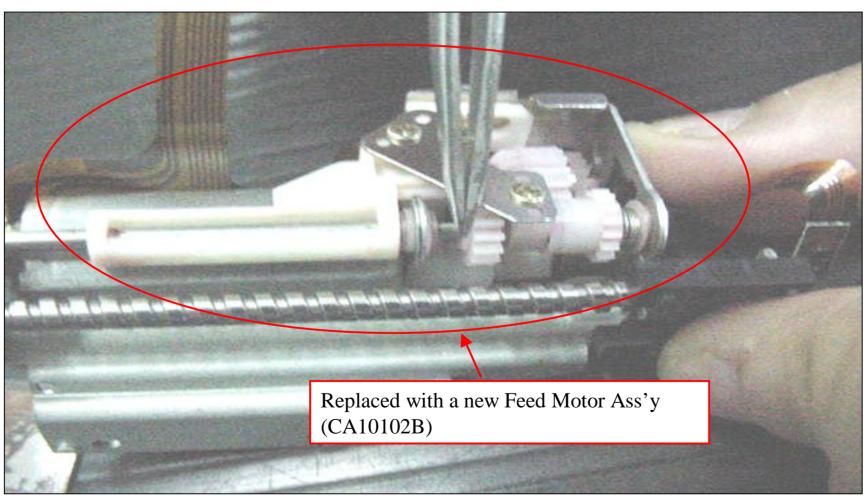
(6 Disc mechanism only)

Change to modified spare part



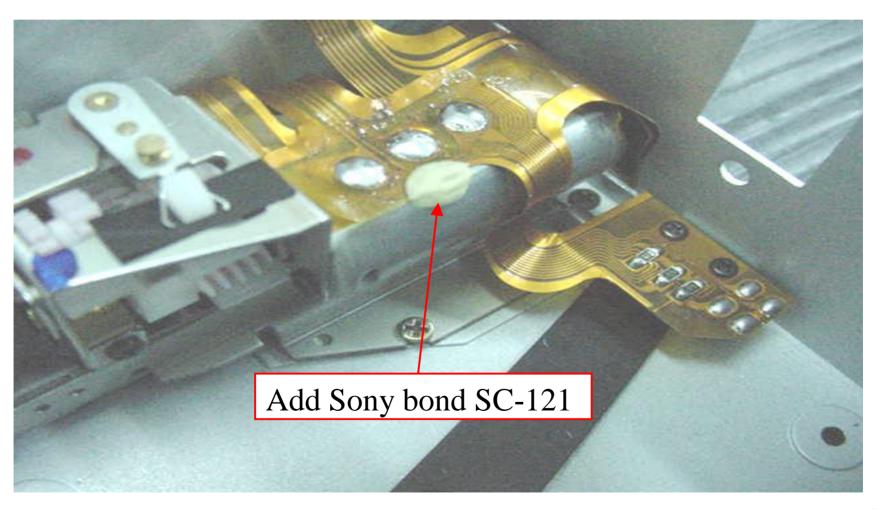


14(i) Prevent E-mecha: Gear damage (Feed motor Ass'y) (6 Disc mechanism only)





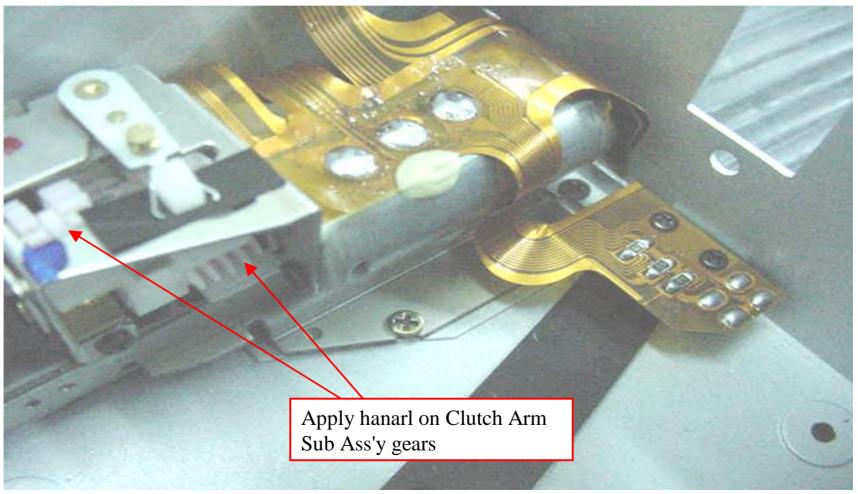
14(ii) Prevent E-mecha: Gear damage (Feed motor Ass'y) (6 Disc mechanism only)





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

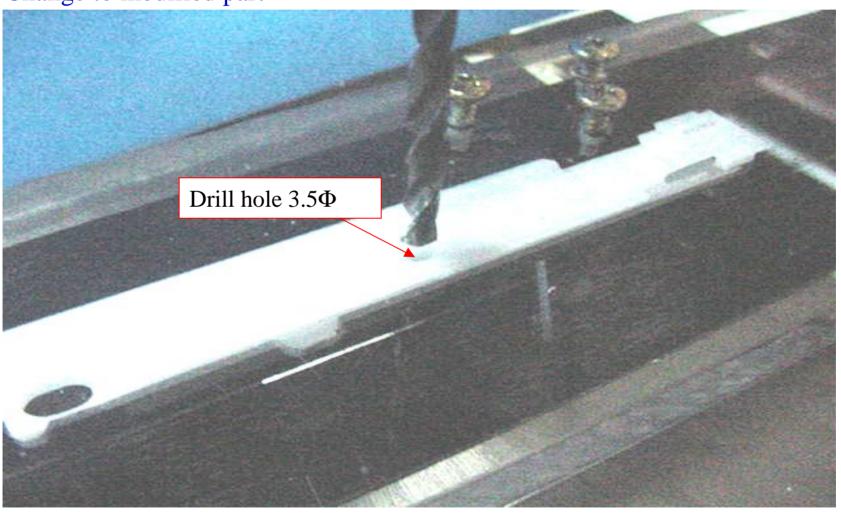
(6 Disc mechanism only)





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

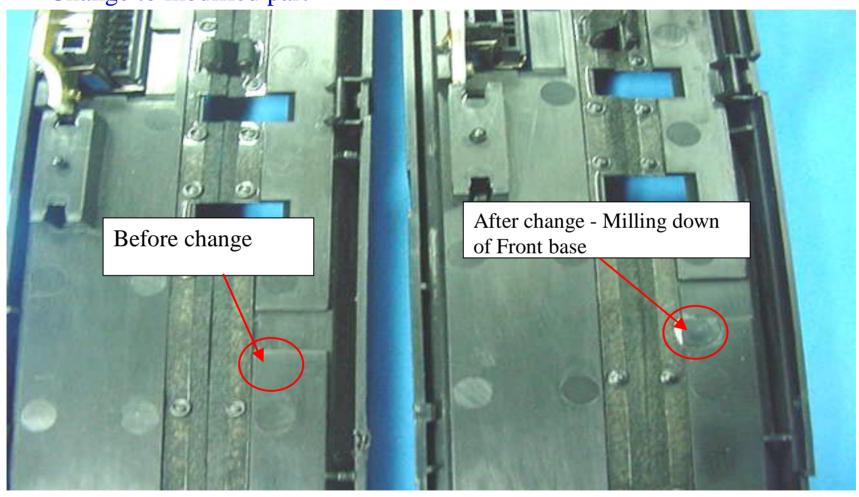
Change to modified part





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