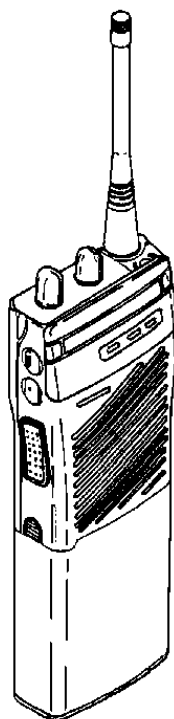


M-RK I

PERSONAL RADIO

DISASSEMBLY AND ASSEMBLY PROCEDURE



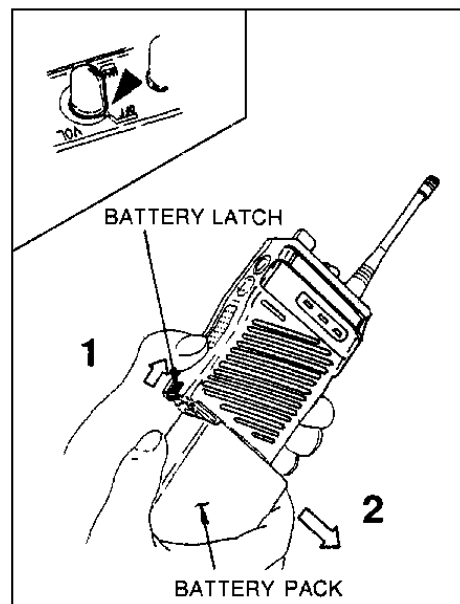
● CAUTION—BEFORE PROCEEDING—

1. Please read this booklet carefully before carrying out procedures.
2. After reading, keep it somewhere convenient for reference.
3. Always remove BATTERY PACK before procedure, as it may cause a power short.
(See page 2 " 1. BATTERY PACK Removal ".)
4. Do not follow any procedures other than what is shown in this booklet as it may cause the main unit to malfunction.

1. M-RK I DISASSEMBLY

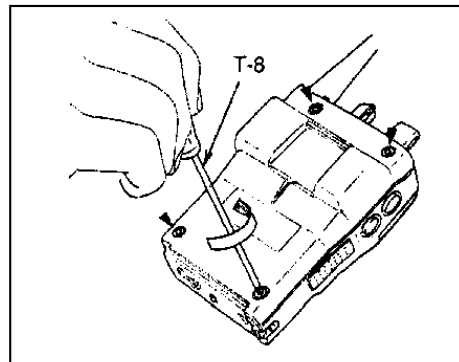
1. BATTERY PACK REMOVAL

1. Make sure that the VOLUME SWITCH is turned off.
2. Release the BATTERY LATCH by pushing it up in the direction of Arrow 1.
3. Remove the BATTERY PACK by sliding it in the direction of Arrow 2.



2. REAR CASE REMOVAL

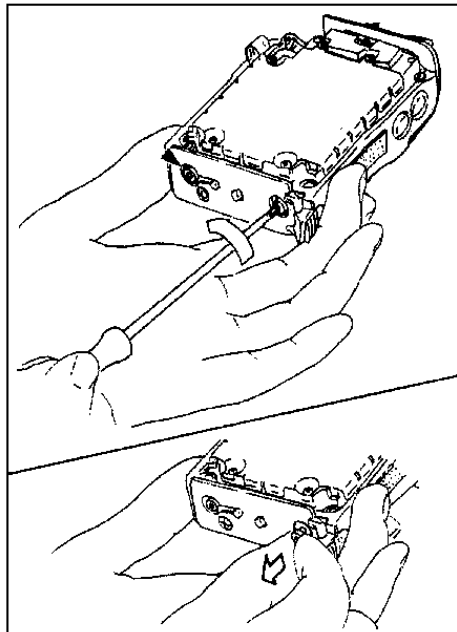
1. Loosen the four captive screws (TORX BIND, M2.6X6) on the REAR CASE with the TORX screwdriver (T-8) and remove the REAR CASE.



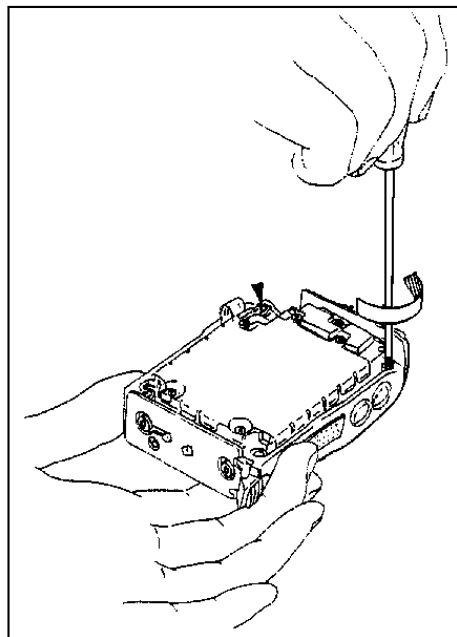
3. INTERNAL UNIT REMOVAL

1.Remove the REAR CASE, and loosen the two flat screws (M3) on the bottom of the main unit with the screwdriver .

2.Gently pull the loosened screws fully .

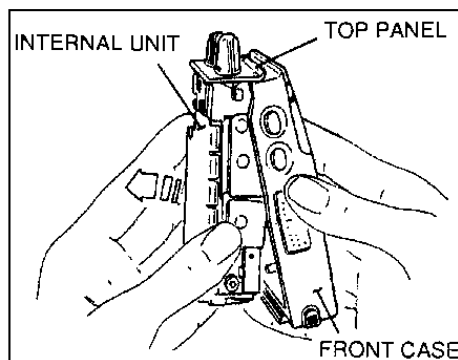


3.Loosen the two screws (PANHEAD, M2X6) on both sides at the upper part with the screwdriver and remove them.

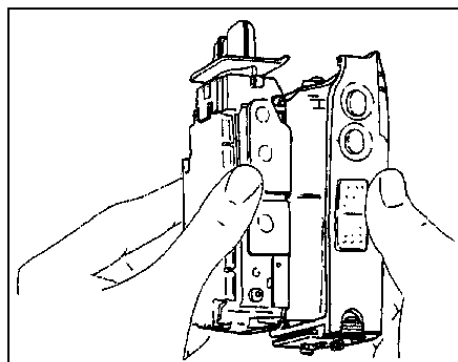


Note : For REARCASE removal, see page 2 " 2.REAR CASE REMOVAL ".

4. Separate the INTERNAL UNIT from the FRONT CASE.
First, disengage the bottom part of INTERNAL UNIT as shown, taking care not to damage the fitting between the TOP PANEL and the FRONT CASE.

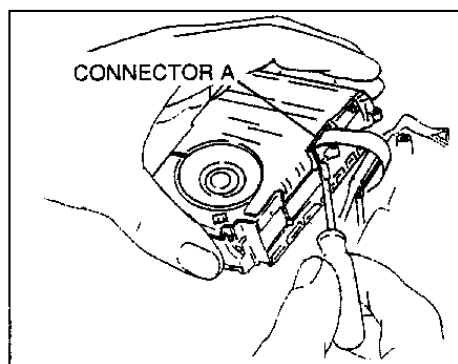


5. Remove the INTERNAL UNIT from the FRONT CASE being careful not to damage the FLEX P.C.B.



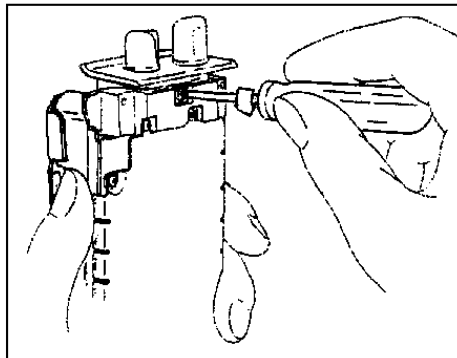
6. Disconnect the CONNECTOR A with a flat tipped tool.

Note : Pull the CONNECTOR A straight out being careful not to damage the connector pins.

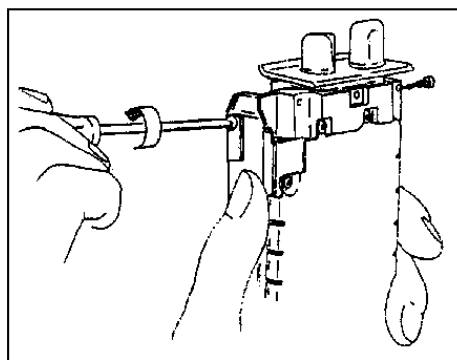


4. LED FLEX ASSY. REMOVAL

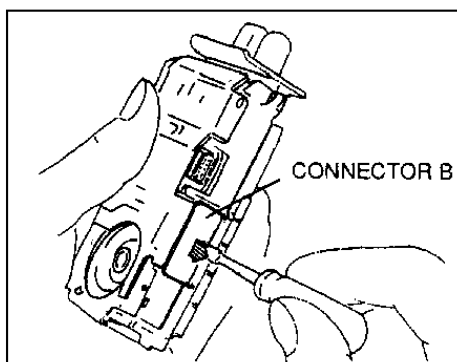
1. Loosen the screw (BTP, M2X3.5) on the back of the LED FLEX ASSY. with the screwdriver and remove it.



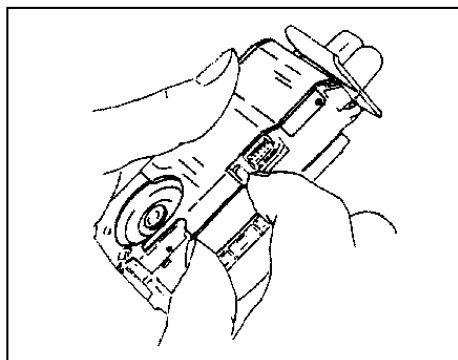
2. Loosen the two screws (PANHEAD, M2X2) on both sides of the LED FLEX ASSY. with the screwdriver and remove them.



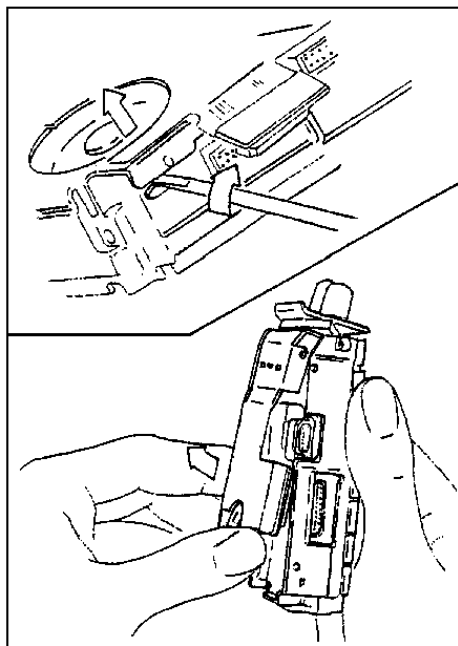
3. Insert a flat tipped tool into the frame of the CONNECTOR B as shown, and lift up the CONNECTOR B slightly to disengage the fitting.



4. Hold the CONNECTOR B with your fingers and remove it taking care not to damage the connector pins.

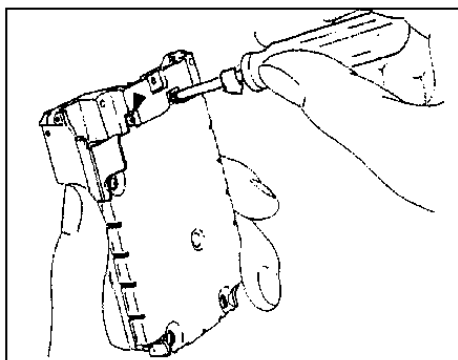


5. Insert a tool with thin end such as a minus screwdriver at the fitting between the LED FLEX ASSY. and the protruding part of the CHASSIS. Then disengage the fitting by twisting the tool, and remove the LED FLEX ASSY gently.

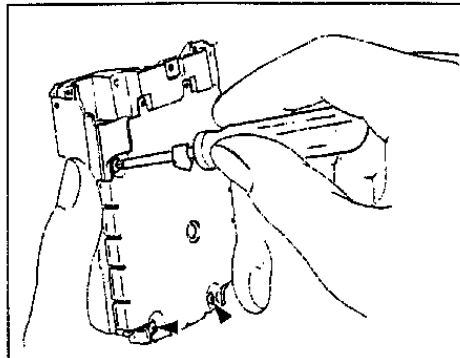


5. RF BOARD ASSY. AND CONTROL BOARD ASSY. REMOVAL

1. Loosen the two screws (PANHEAD, M2X2) at the upper part of the RF SHIELD PLATE with the screwdriver and remove them.

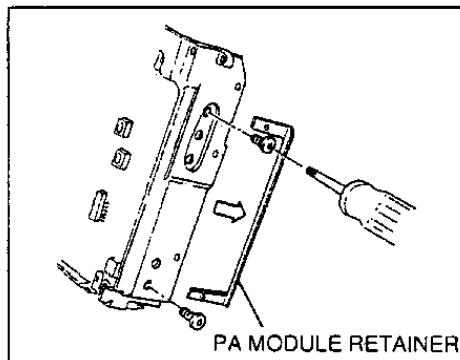


- 2.Remove the three screws (PANHEAD, M2X4 with SW) at the indented parts of the RF SHIELD PLATE, and remove the RF SHIELD PLATE.



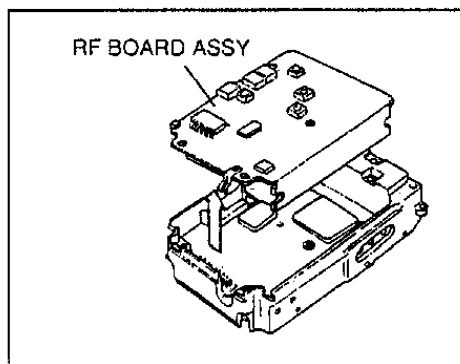
- 3.Remove the two screws (BIND, M2.6X6) on the side of the CASTING with the screwdriver, and remove the PA MODULE RETAINER

PA MODULE RETAINER

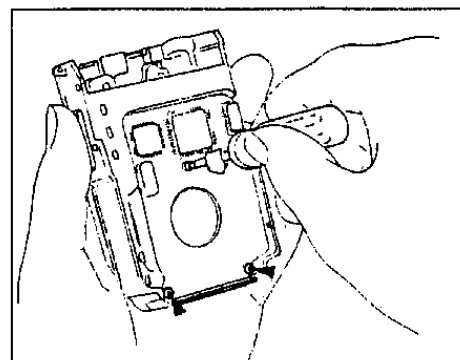


- 4.Lift up the RF BOARD ASSY, taking care not to damage the connector which connects it with the CONTROL BOARD ASSY. Then remove the RF BOARD ASSY. from the CASTING keeping horizontal state.

Note : The connector is located on the bottom of the CASTING as shown.



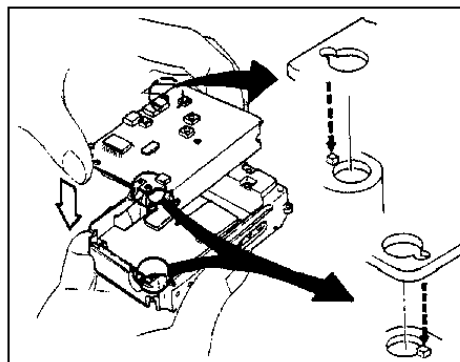
- 5.Turn the CASTING over and loosen the three screws (PANHEAD with SW, M2X4) on the CONTROL BOARD ASSY. with the screwdriver, and remove the CONTROL BOARD ASSY. from the CASTING.



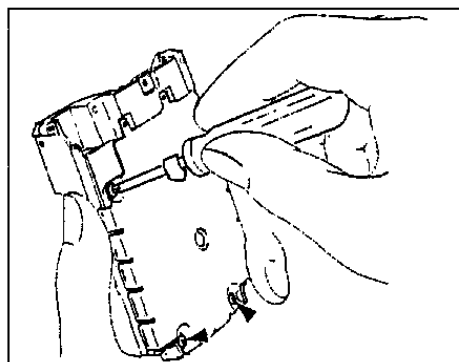
2. M-RK I ASSEMBLY

1. INTERNAL UNIT ASSEMBLY

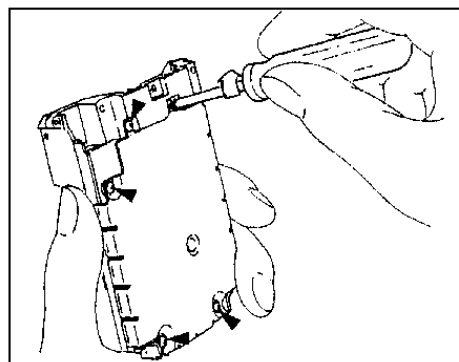
- 1.Put the mounting holes on the RF BOARD ASSY. and the bosses at the mounting holes on the CASTING together, and fit the RF BOARD ASSY. with the CASTING.



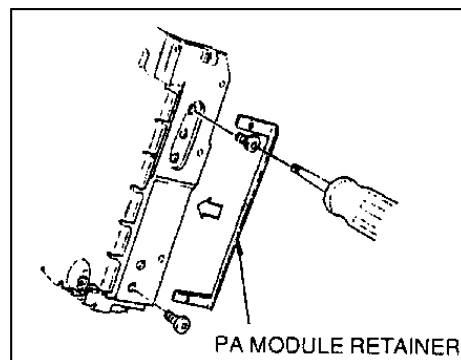
- 2.Install the RF SHIELD PLATE on the CASTING by fastening the three screws (PANHEAD with SW, M2X4) at the concave parts through the RF BOARD ASSY. with the screwdriver.



- 3.Secure the RF SHIELD PLATE by fastening the two screws (PANHEAD, M2X2) on the upper part with the screwdriver.

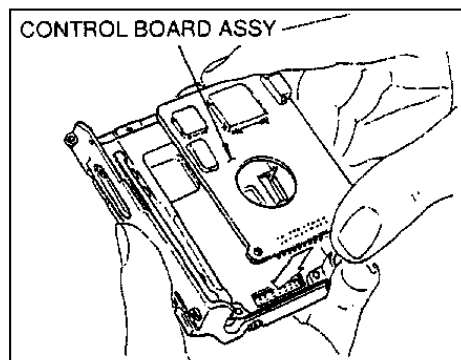


4. Insert the PA MODULE RETAINER into mounting holes and secure it by fastening the two screws (BIND, M2.6X6) on the side of the CASTING with the screwdriver .

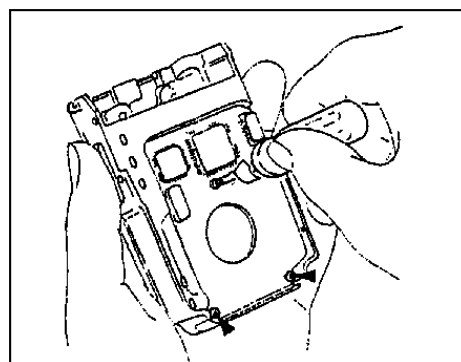


5. Turn the CASTING over and fit the connectors of the RF BOARD ASSY. and the CONTROL BOARD ASSY.

Note : Be careful not to damage the connector pins.



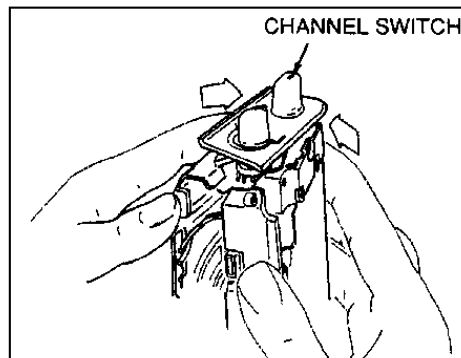
6. Secure the CONTROL BOARD ASSY. in the CASTING by fastening the three screws (PANHEAD with SW, M2X4) with the screwdriver.



2. LED FLEX ASSY. INSTALLATION

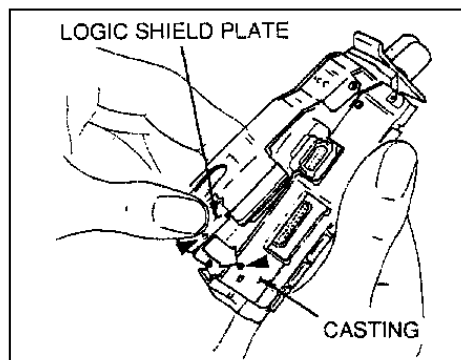
1. Engage the upper part of the LED FLEX ASSY. with the CASTING. First fit the CHANNEL SWITCH side, then fit the EMERGENCY BUTTON side.

CHANNEL SWITCH

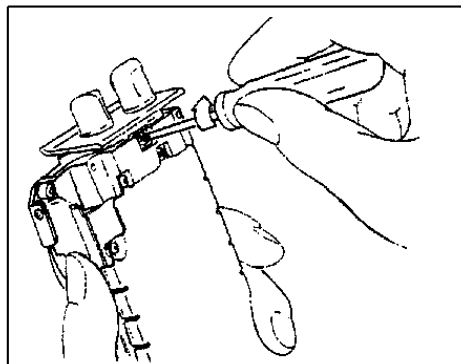


2. After engaging the upper part, fit the bosses of the LOGIC SHIELD PLATE with the holes on both sides of the CASTING.

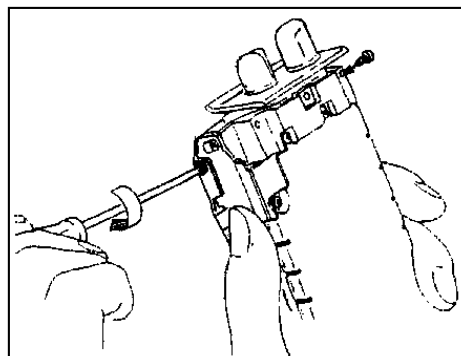
LOGICSHIELDPLATE
CASTING



3. Fasten the screw (BTP, M2X3.5) on the upper part of the LED FLEX ASSY. with the screwdriver.

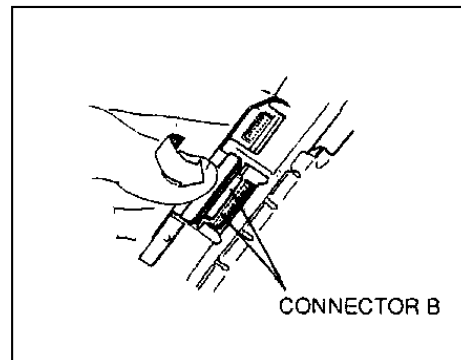


4. Secure the LED FLEX ASSY. by fastening the two screws (PANHEAD, M2X2) on both sides with the screwdriver.

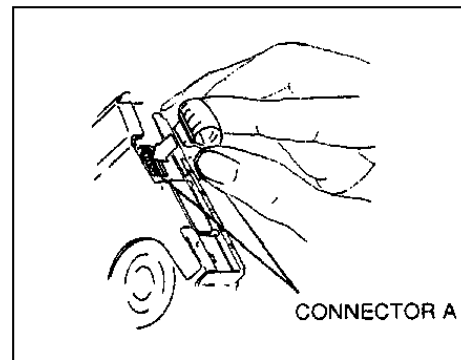


5. Fit the CONNECTOR B securely by pressing the FLEX P.C.B. on the CONNECTOR B with your thumb tip as shown.

Note : Be careful not to damage the connector pins.



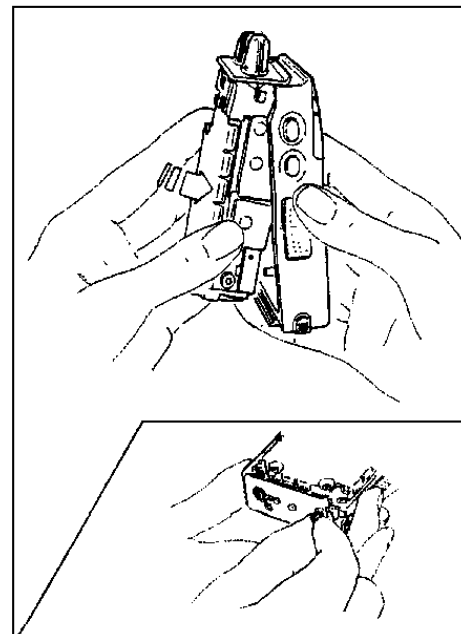
6. Hold the FLEX P.C.B. of the CONNECTOR A with your fingers, and connect by pressing the FLEX P.C.B. with your index finger tip as shown.



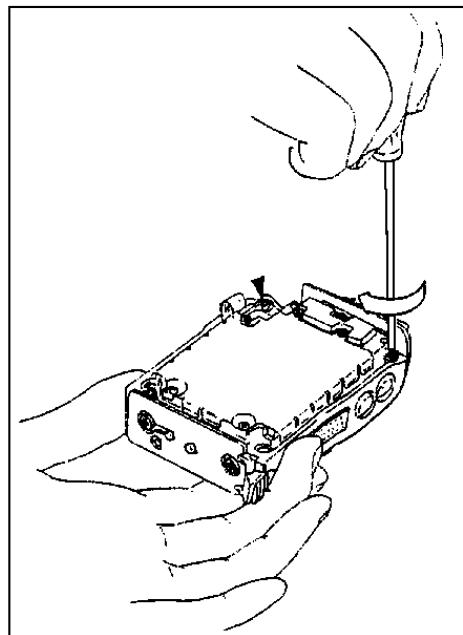
3. INTERNAL UNIT INSTALLATION

1. Place the upper part of the INTERNAL UNIT in the FRONT CASE. After deciding the position, install the INTERNAL UNIT in the FRONT CASE as shown. Then, set two screws (TORX, M3) at the bottom of the FRONT CASE.

Note : Be careful not to catch the FLEX P.C.B. of the CONNECTOR A between the FRONT CASE and the INTERNAL UNIT.

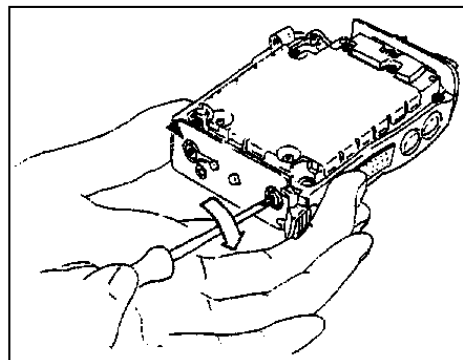


2. Secure the INTERNAL UNIT by fastening the two screws (PANHEAD, M2X6) at the upper part on both sides with the screwdriver.



3. Fasten the two flat screws (M3) on the bottom of the FRONT CASE with the screwdriver.

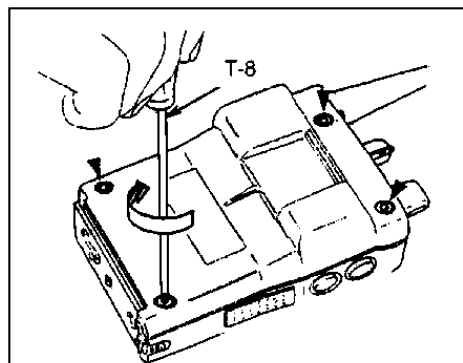
Note : After tightening screw, return the negative (-) battery contact (on left side of diagram) just a little bit counter-clockwise so that the contact is centered in the mounting groove.



4. REAR CASE INSTALLATION

1. Install the REARCASE and fasten the four captive screws (TORX BIND, M2.6X6) with the TORX screwdriver (T-8). Take care not to catch the FLEX P.C.B. of the CONNECTOR A between the REAR CASE and the FRONT CASE.

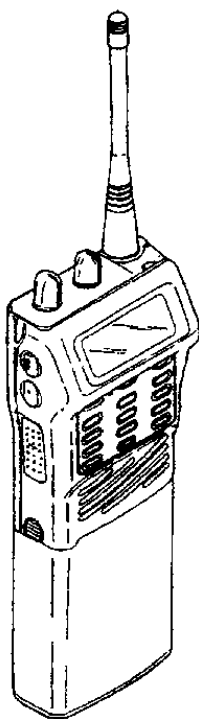
Note : Fastening torque should not be over 3.5Kg-cm.



SECTION II

M-RK II PERSONAL RADIO

DISASSEMBLY AND ASSEMBLY PROCEDURE



● CAUTION—BEFORE PROCEEDING—

1. Please read this booklet carefully before carrying out procedures.
2. After reading, keep it somewhere convenient for reference.
3. Always remove BATTERY PACK before procedure, as it may cause a power short.
(See page 2 " 1.BATTERY PACK Removal ".)
4. Do not follow any procedures other than what is shown in this booklet as it may cause the main unit to malfunction.

CONTENTS

1. M - RK II DISASSEMBLY

1. BATTERY PACK REMOVAL 3

2. REAR CASE REMOVAL 3

3. INTERNAL UNIT REMOVAL 4

4. LCD/KB FLEX ASSY. REMOVAL 6

5. RF BOARD ASSY. AND CONTROL BOARD ASSY. REMOVAL 7

2. M - RK II ASSEMBLY

1. INTERNAL UNIT ASSEMBLY 9

2. LCD/KB FLEX ASSY. INSTALLATION 11

3. INTERNAL UNIT INSTALLATION 12

4. REAR CASE INSTALLATION 13

● Necessary Tools

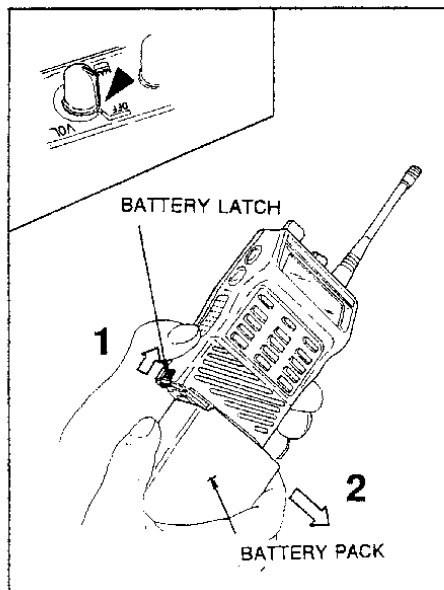
● The following tools are necessary for assembly and disassembly.

- TORX screwdriver (T-8) 1
 - Screwdriver (M2) 1

1. M-RK II DISASSEMBLY

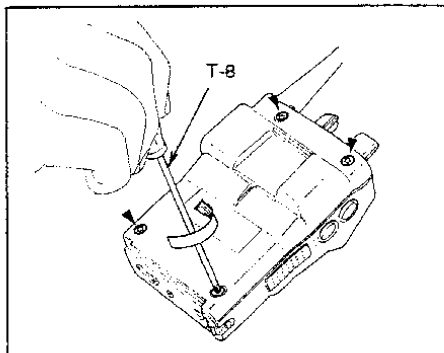
1. BATTERY PACK REMOVAL

1. Make sure that the VOLUME SWITCH is turned off.
2. Release the BATTERY LATCH by pushing it up in the direction of Arrow 1.
3. Remove the BATTERY PACK by sliding it in the direction of Arrow 2.



2. REAR CASE REMOVAL

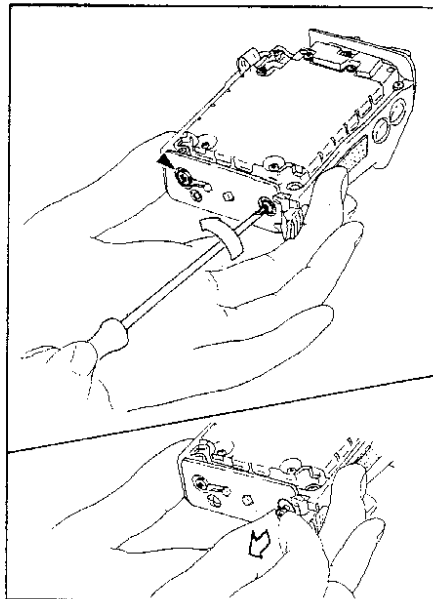
1. Loosen the four captive screws (TORX BIND, M2.6X6) on the REAR CASE with the TORX screwdriver (T-8) and remove the REAR CASE.



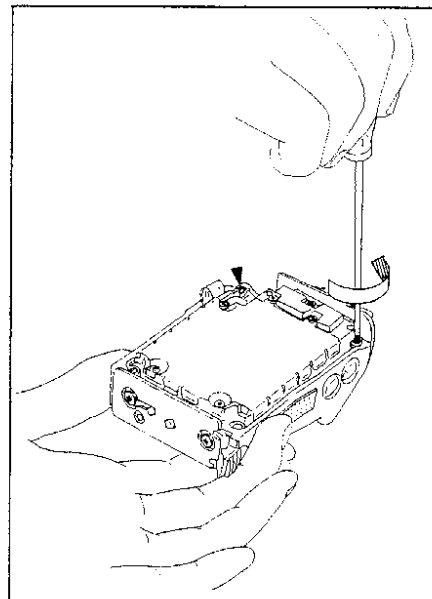
3. INTERNAL UNIT REMOVAL

1.Remove the REAR CASE, and loosen the two flat screws (M3) on the bottom of the main unit with the screwdriver .

2.Gently pull the loosened screws fully .

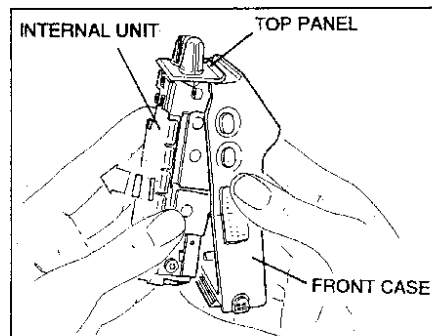


3.Loosen the two screws (PANHEAD, M2X6) on both sides at the upper part with the screwdriver and remove them.

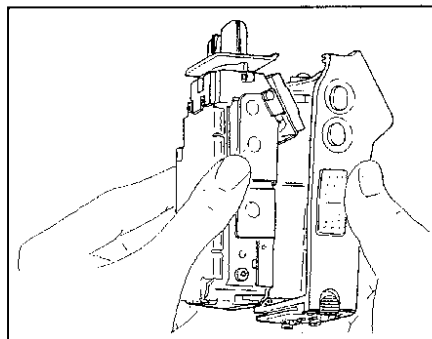


Note : For REARCASE removal, see page 2 " 2.REAR CASE REMOVAL ".

4. Separate the INTERNAL UNIT from the FRONT CASE.
First, disengage the bottom part of INTERNAL UNIT as shown, taking care not to damage the fitting between the TOP PANEL and the FRONT CASE.

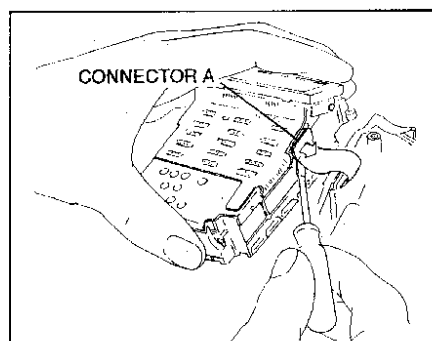


5. Remove the INTERNAL UNIT from the FRONT CASE being careful not to damage the FLEX P.C.B.



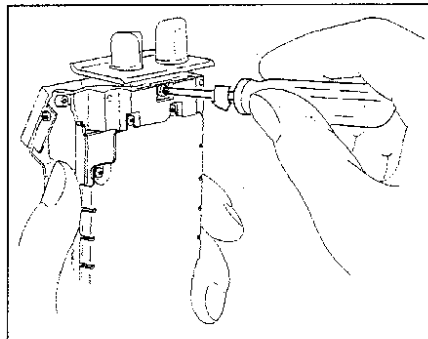
6. Disconnect the CONNECTOR A with a flat tipped tool.

Note : Pull the CONNECTOR A straight out being careful not to damage the connector pins.

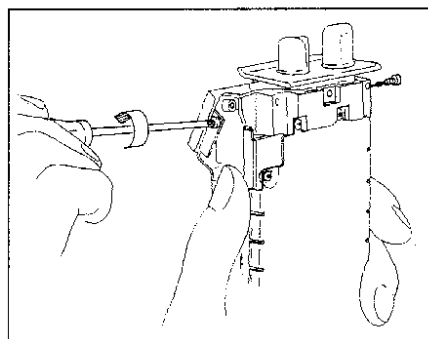


4. LCD/KB FLEX ASSY. REMOVAL

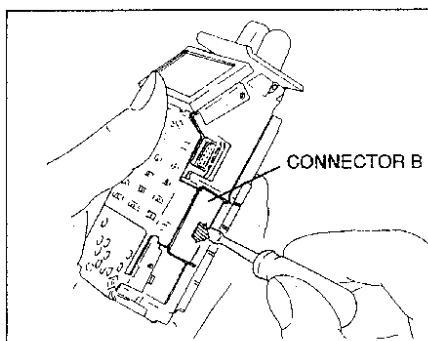
1. Loosen the screw (BTP, M2X3.5) on the back of the LCD/KB FLEX ASSY. with the screwdriver and remove it.



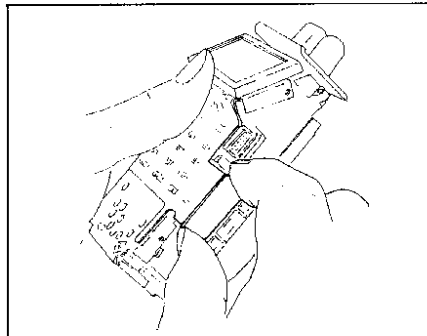
2. Loosen the two screws (PANHEAD, M2X2) on both sides of the LCD/KB FLEX ASSY. with the screwdriver and remove them.



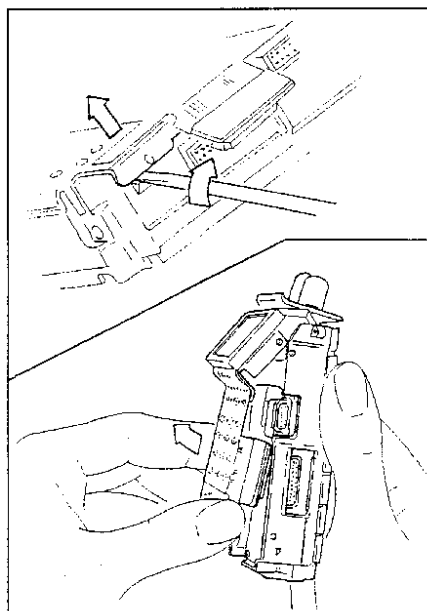
3. Insert a flat tipped tool into the frame of the CONNECTOR B as shown, and lift up the CONNECTOR B slightly to disengage the fitting.



4. Hold the CONNECTOR B with your fingers and remove it taking care not to damage the connector pins.

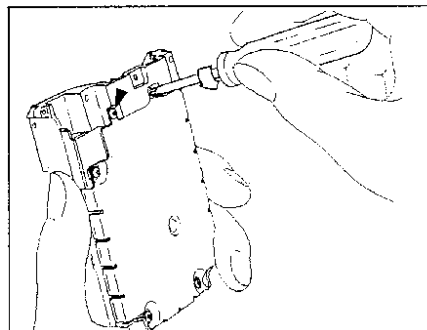


5. Insert a tool with thin end such as a minus screwdriver at the fitting between the LCD/KB FLEX ASSY. and the protruding part of the CHASSIS. Then disengage the fitting by twisting the tool, and remove the LCD/KB FLEX ASSY gently.

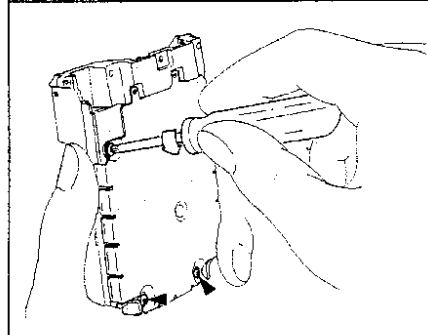


5. RF BOARD ASSY. AND CONTROL BOARD ASSY. REMOVAL

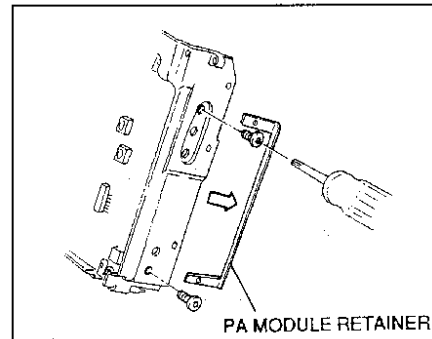
1. Loosen the two screws (PANHEAD, M2X2) at the upper part of the RF SHIELD PLATE with the screwdriver and remove them.



- 2.Remove the three screws (PANHEAD, M2X4 with SW) at the indented parts of the RF SHIELD PLATE, and remove the RF SHIELD PLATE.

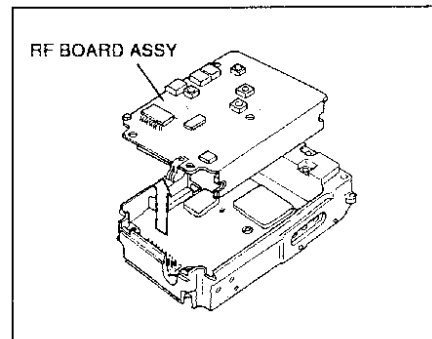


- 3.Remove the two screws (BIND, M2.6X6) on the side of the CASTING with the screwdriver, and remove the PA MODULE RETAINER

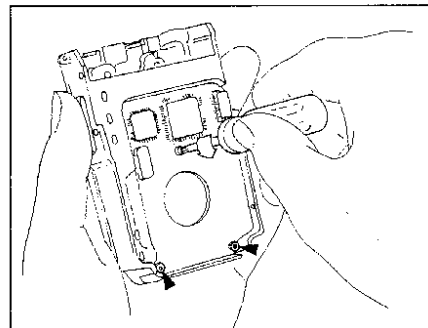


- 4.Lift up the RF BOARD ASSY. taking care not to damage the connector which connects it with the CONTROL BOARD ASSY. Then remove the RF BOARD ASSY. from the CASTING keeping horizontal state.

Note : The connector is located on the bottom of the CASTING as shown.



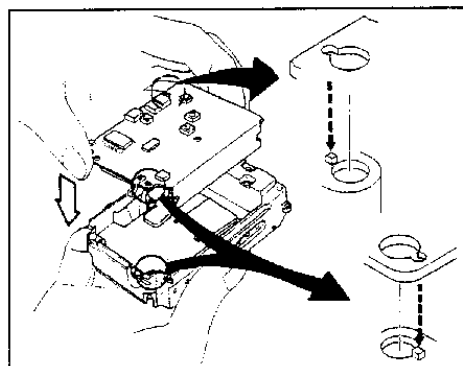
- 5.Turn the CASTING over and loosen the three screws (PANHEAD with SW, M2X4) on the CONTROL BOARD ASSY. with the screwdriver, and remove the CONTROL BOARD ASSY. from the CASTING.



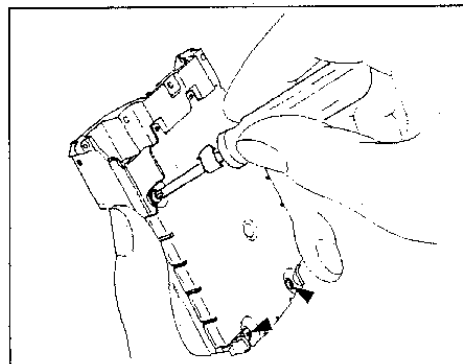
2. M-RK II ASSEMBLY

1. INTERNAL UNIT ASSEMBLY

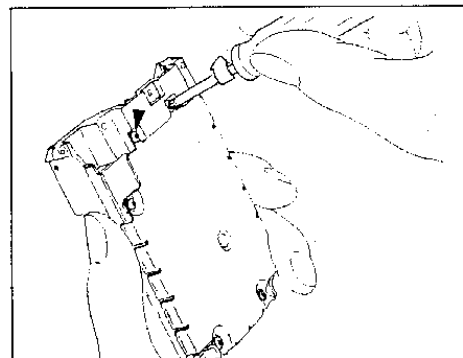
- 1.Put the mounting holes on the RF BOARD ASSY. and the bosses at the mounting holes on the CASTING together, and fit the RF BOARD ASSY. with the CASTING.



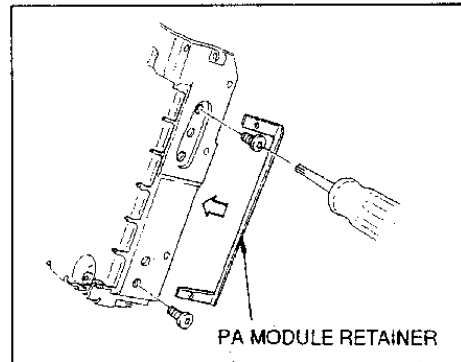
- 2.Install the RF SHIELD PLATE on the CASTING by fastening the three screws (PANHEAD with SW, M2X4) at the concave parts through the RF BOARD ASSY. with the screwdriver.



- 3.Secure the RF SHIELD PLATE by fastening the two screws (PANHEAD, M2X2) on the upper part with the screwdriver.

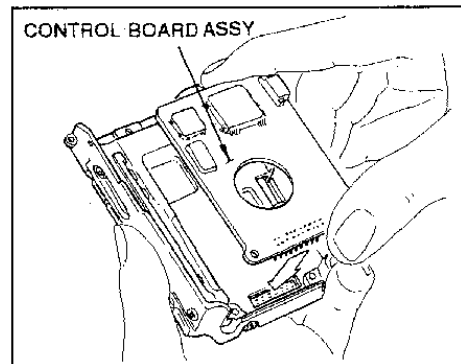


4. Insert the PA MODULE RETAINER into mounting holes and secure it by fastening the two screws (BIND, M2.6X6) on the side of the CASTING with the screwdriver .

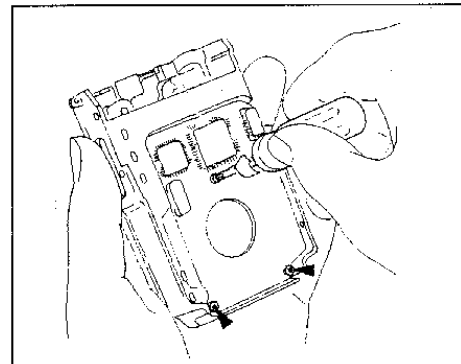


5. Turn the CASTING over and fit the connectors of the RF BOARD ASSY. and the CONTROL BOARD ASSY.

Note : Be careful not to damage the connector pins.

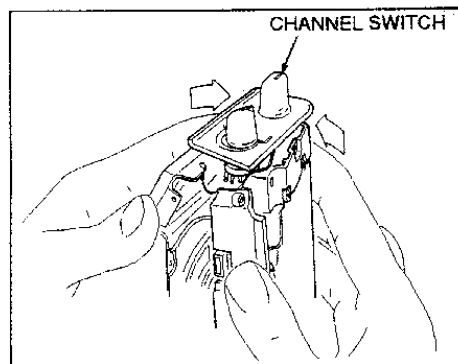


6. Secure the CONTROL BOARD ASSY. in the CASTING by fastening the three screws (PANHEAD with SW, M2X4) with the screwdriver.

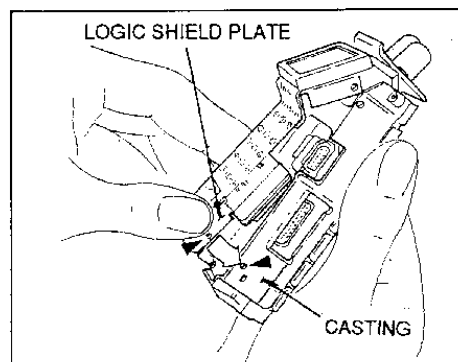


2. LCD/KB FLEX ASSY. INSTALLATION

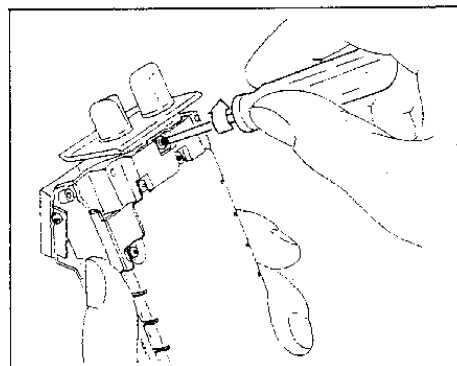
1. Engage the upper part of the LCD/KB FLEX ASSY. with the CASTING. First fit the CHANNEL SWITCH side, then fit the EMERGENCY BUTTON side.



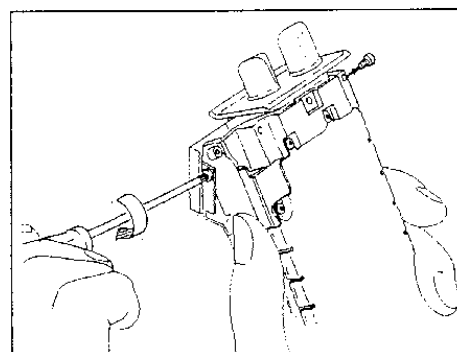
2. After engaging the upper part, fit the bosses of the LOGIC SHIELD PLATE with the holes on both sides of the CASTING.



3. Fasten the screw (BTP, M2X3.5) on the upper part of the LCD/KB FLEX ASSY. with the screwdriver.

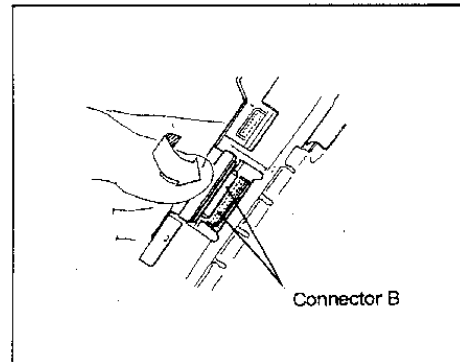


4. Secure the LCD/KB FLEX ASSY. by fastening the two screws (PANHEAD, M2X2) on both sides with the screwdriver.

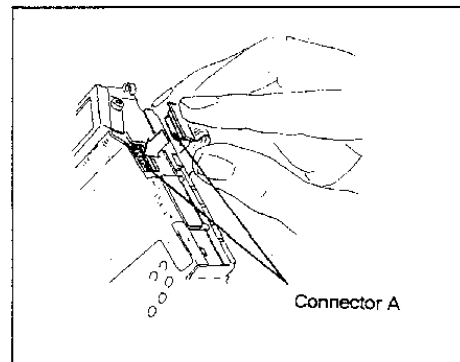


5. Fit the CONNECTOR B securely by pressing the FLEX P.C.B. on the CONNECTOR B with your thumb tip as shown.

Note : Be careful not to damage the connector pins.



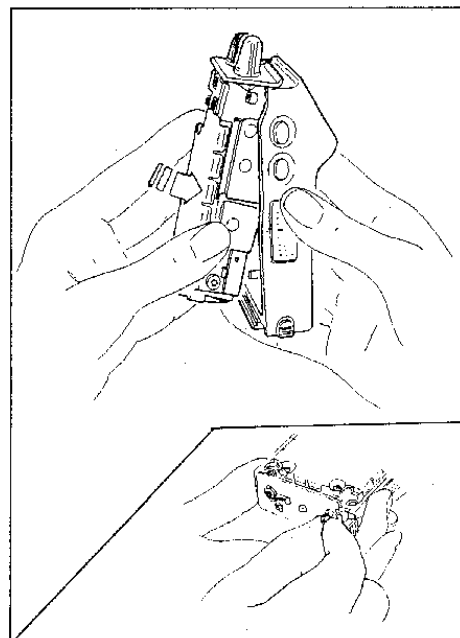
6. Hold the FLEX P.C.B. of the CONNECTOR A with your fingers, and connect by pressing the FLEX P.C.B. with your index finger tip as shown.



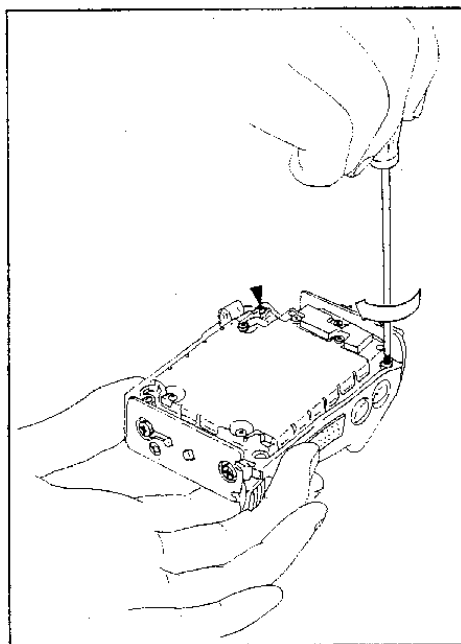
3. INTERNAL UNIT INSTALLATION

1. Place the upper part of the INTERNAL UNIT in the FRONT CASE. After deciding the position, install the INTERNAL UNIT in the FRONT CASE as shown. Then, set two screws (TORX, M3) at the bottom of the FRONT CASE.

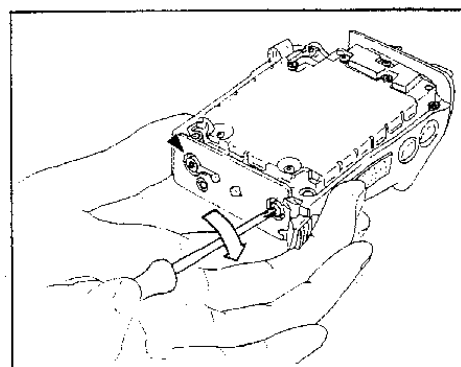
Note : Be careful not to catch the FLEX P.C.B. of the CONNECTOR A between the FRONT CASE and the INTERNAL UNIT.



2. Secure the INTERNAL UNIT by fastening the two screws (PANHEAD, M2X6) at the upper part on both sides with the screwdriver.

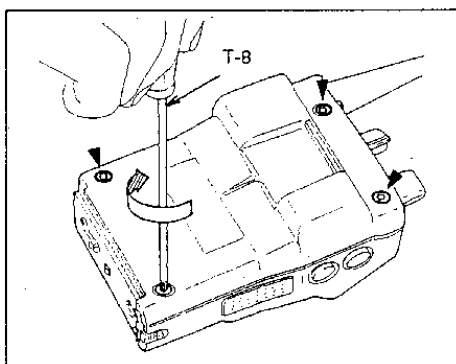


3. Fasten the two flat screws (M3) on the bottom of the FRONT CASE with the screwdriver.



4. REAR CASE INSTALLATION

1. Install the REARCASE and fasten the four captive screws (TORX BIND, M2.6X6) with the TORX screwdriver (T-8). Take care not to catch the FLEX P.C.B. of the CONNECTOR A between the REAR CASE and the FRONT CASE.





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