

# Service Manual

SPPC70-5B-C1G

SPPC70-5B-C15G

SPOS70-5B-C1G

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## Before You Start

1. Please unplug the power cable before you start to work.
2. Please read and follow the instructions in this document carefully. Failure to follow these instructions could damage your device and void the warranty.

### 1.1. Tools Suggested

All procedures in this document require the following tools:



**#0 Phillips screwdriver  
(Magnetized suggested)**



**#1 Phillips screwdriver  
(Magnetized suggested)**



**1.5 mm hexagon socket spanner  
(Magnetized suggested)**

## Opening the Device

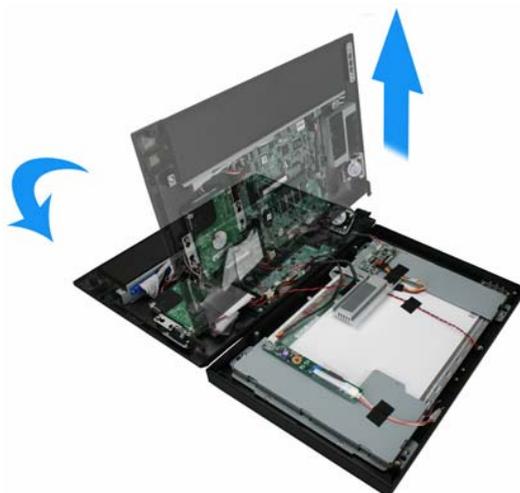
1. Un-tighten four screws on the back panel anticlockwise.



2. Open the back panel.



3. Separate the back panel from the front panel by lifting up and lay it down carefully.



## RAM Replacement

1. Open the two ejectors on the slot by pushing them, and remove the RAM from the slot.



4. Remove the old RAM.



5. Align and insert the new RAM in the slot and push both ends of the RAM down until the ejectors snap into place.



## Battery Installation

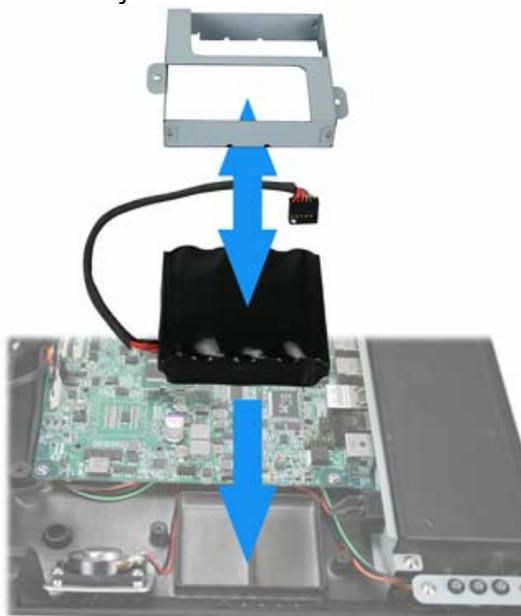
1. Unplug the connector of the battery from the mainboard.



2. Loosen the two screws by **#1 Phillips screwdriver** as shown below and remove the battery.

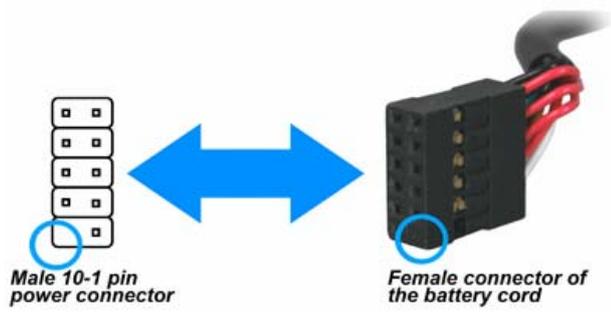


3. Remove the battery and the battery bracket as shown below.



4. Install a new battery in the reverse procedure

**Note: The battery cable must be connected in the correct orient.**



## HDD Replacement

1. Unplug one connector of the IDE cable from the mainboard.



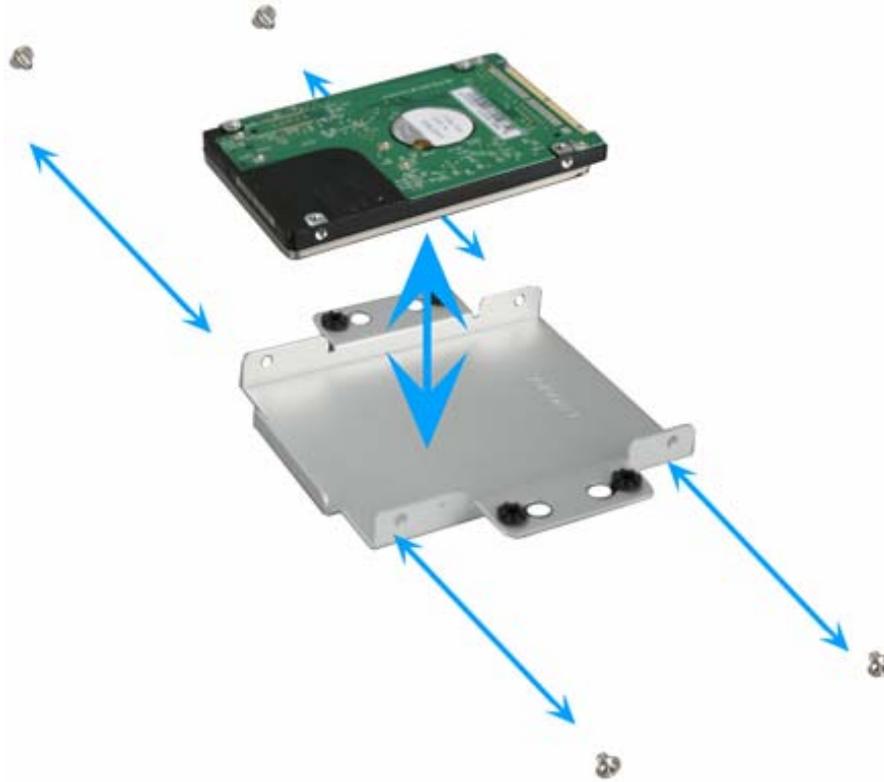
2. Unplug another connector of the IDE cable from the HDD.



3. Loosen the four screws by #1 Phillips screwdriver as shown below and remove the HDD assembly from the device.



4. Loosen the four screws fixing the HDD and remove the HDD from the bracket as shown below.



5. Install the new HDD in the reverse procedure from Step 4 to Step 1.

## Touch Panel Control Board Replacement

### 6.1. Disconnect Touch Panel Control Board Cable

1. Remove the black tape as shown below.



2. Disconnect two connectors from the touch panel control board as shown below.



### 6.2. Remove the Touch Panel Control Board

1. Loosen the two screws by #0 Phillips screwdriver as shown below and remove the touch panel control board.

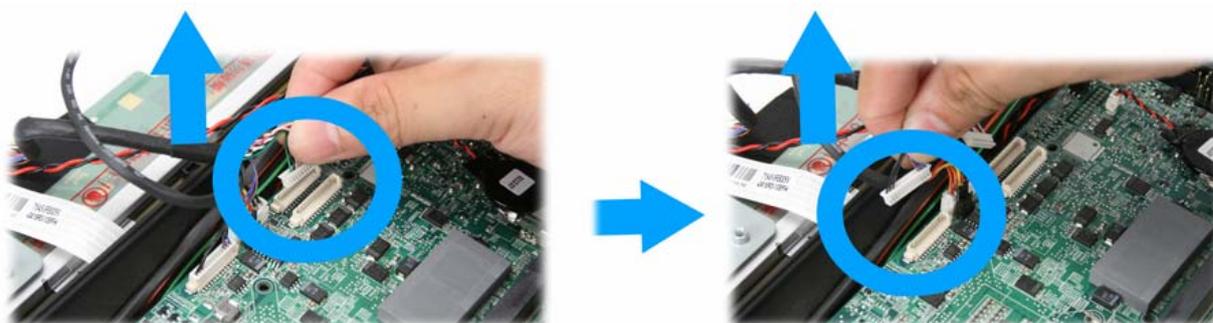


2. Install the new touch panel control board in the reverse procedure.

## LCD Inverter Replacement

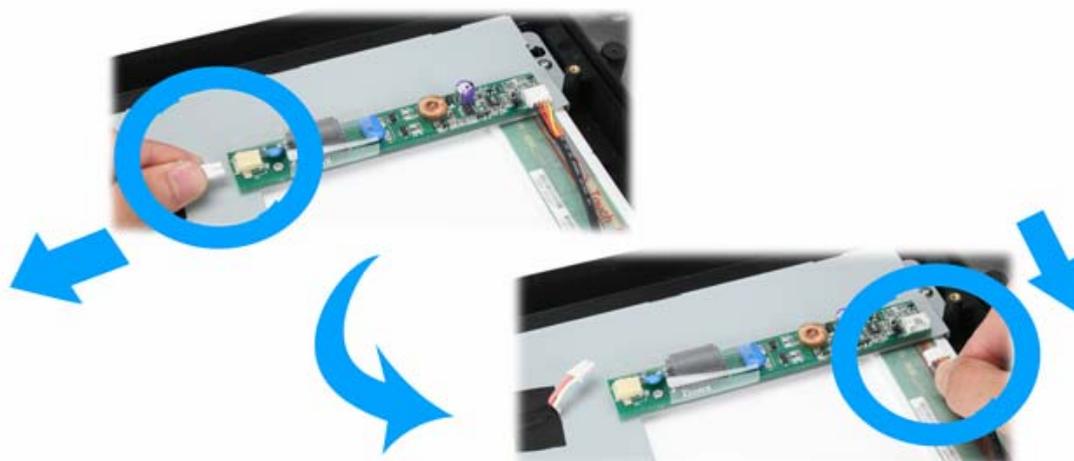
### 7.1. Disconnect Inverter Cable

1. Disconnect the two inverter cables from the mainboard.

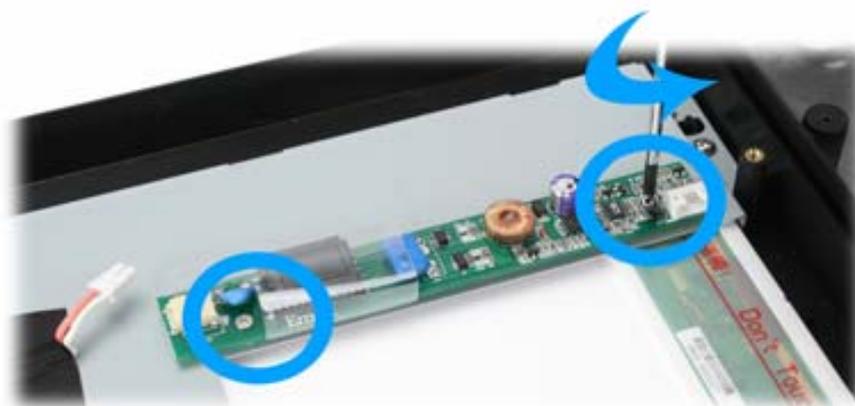


### 7.2. Remove the LCD Inverter

1. Disconnect two connectors from the LCD inverter as shown below.



2. Loosen the three screws by #0 Phillips screwdriver and remove the LCD inverter.



3. Install the new LCD inverter in the reverse procedure.

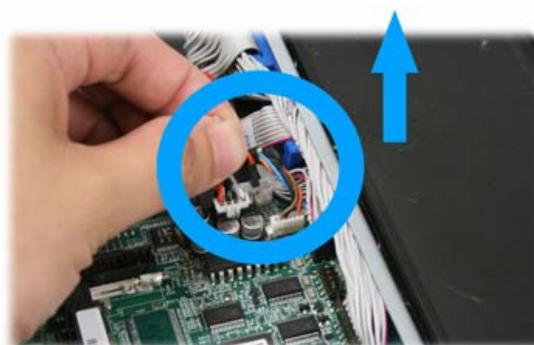
## Other Components Replacement

### 8.1. Disconnect Cables from the Mainboard

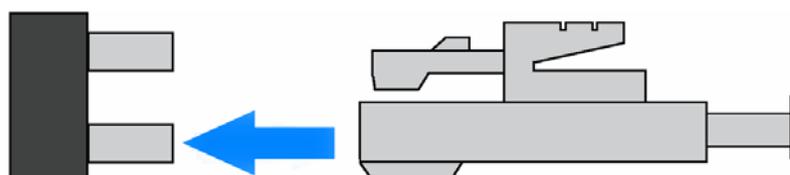
1. Unplug the inverter cable from the mainboard as shown below.



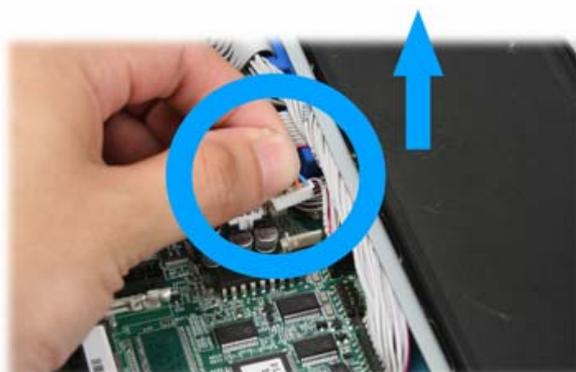
2. Unplug the power switch cable from the mainboard as shown below.



**Note:** The power switch cable must be connected to the correct pin.



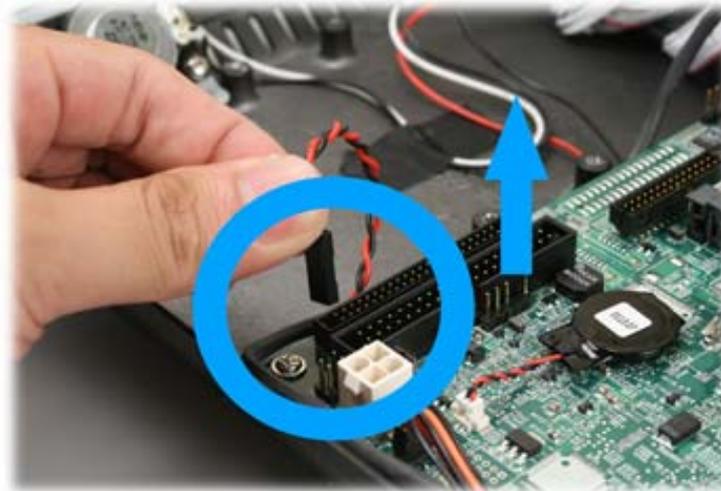
3. Unplug the cable of the touch panel control board from the mainboard as shown below.



4. Unplug the LED indicator cable from the mainboard as shown below.

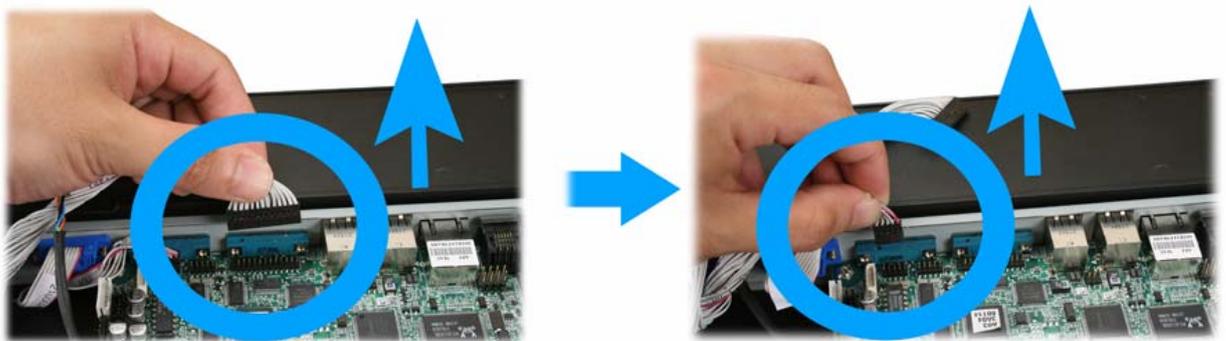


5. Unplug the speaker cable from the mainboard as shown below.



## 8.2. Mainboard and I/O Panel Disassembly

1. Disconnect the serial port cable and COM cable from the mainboard.



2. Unplug the LED indicator connector from the mainboard.



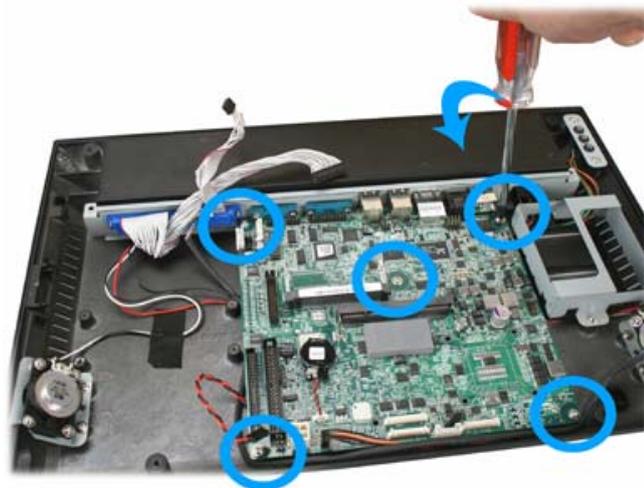
3. Loosen the four screws by 1.5 mm hexagon socket spanner as shown below.



4. Remove the two screws by #1 Phillips screwdriver as shown below.



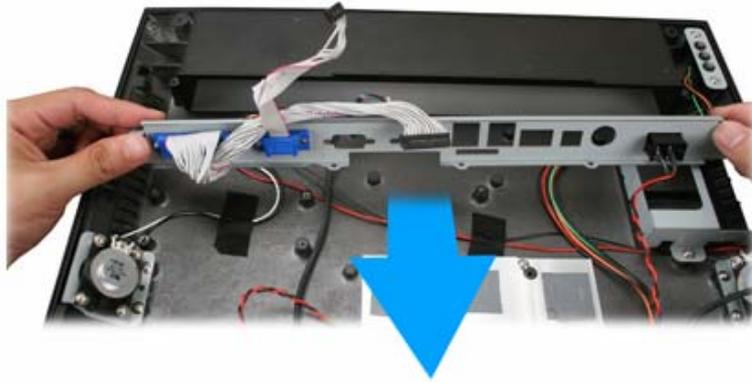
5. Loosen the five screws by #0 Phillips screwdriver as shown below.



6. Remove the mainboard from the device as shown below.



7. Remove the I/O panel from the device as shown below.



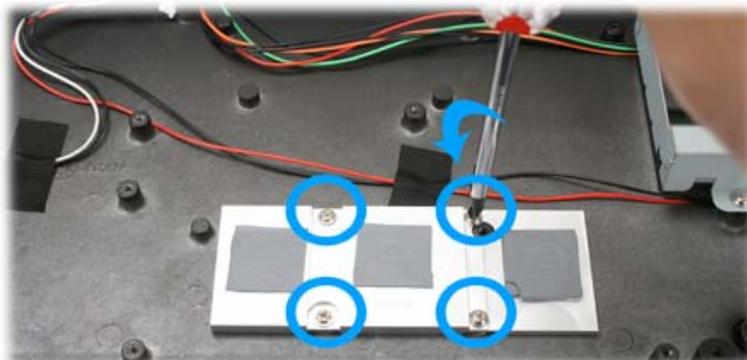
8. Loosen the four screws by 1.5 mm hexagon socket spanner as shown below and you can remove the COM port and serial port from the I/O panel.



9. Remove the power switch from the I/O panel.



10. Loosen the four screws fixing the heat sink and you can remove the heat sink from the device.



11. Loosen the two screws fixing the LED indicator and you can remove the LED indicator from the device.



12. Loosen the screws fixing the speakers and you can remove it from the device.

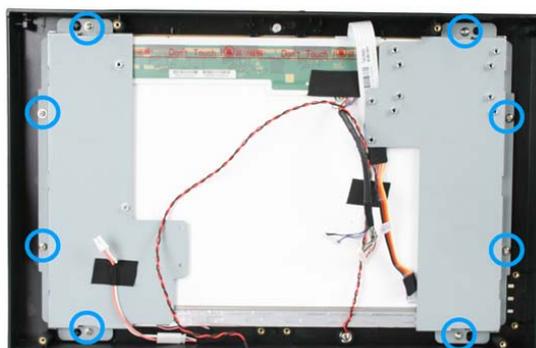


## LCD Panel Replacement

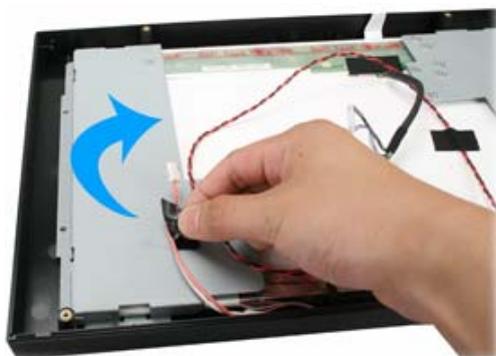
1. Loosen the two screws fixing the LED indicator cover and you can remove the LED indicator cover from the device.



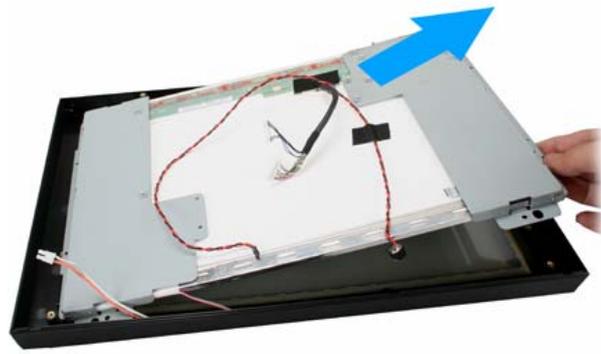
2. Loosen the eight screws in blue circle as shown below by #1 Phillips screwdriver.



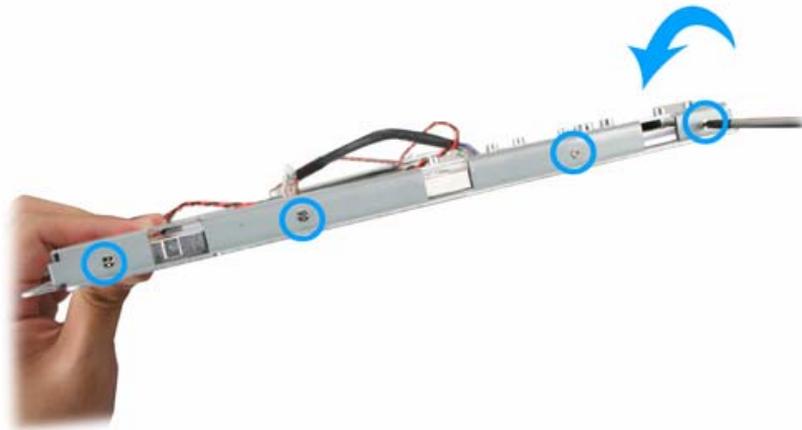
3. Remove the black tape as shown below.



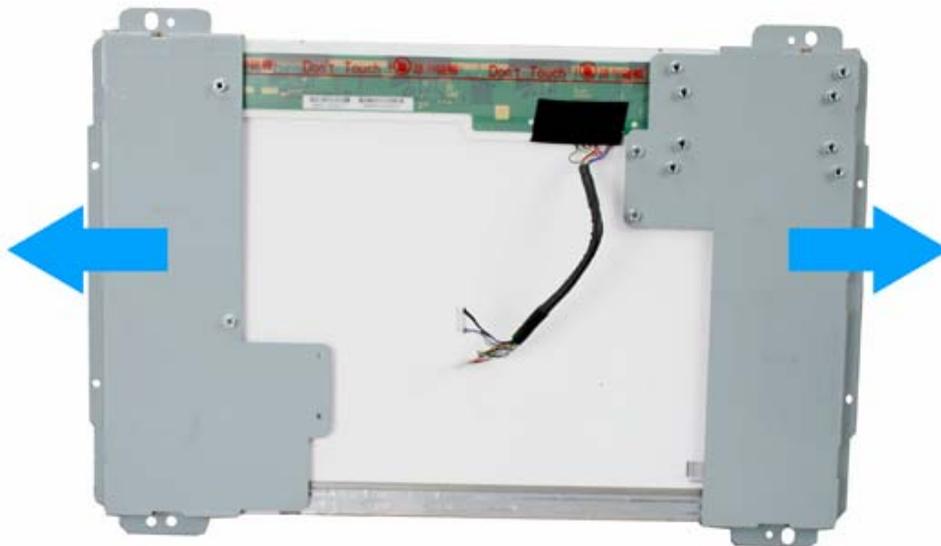
4. Remove the LCD panel assembly from the device as shown below.



5. Loosen the four screws on the two length sides of the LCD panel assembly #1 Phillips screwdriver as shown below.



6. Remove the two metal racks from the LCD panel.



7. Install a new LCD panel to the device in the reverse procedure from Step 6 to Step 1.