



FIELD INSTRUCTIONS
Exabyte Mammoth 8mm Tape Drive

Replacing the Door

Contents

1	Before you begin	2
2	Removing the top cover and faceplate	3
3	Adjusting the cartridge loader	5
4	Replacing the door	6
5	Readjusting the cartridge loader	10
6	Replacing the faceplate and top cover	10
7	After replacing the door	13

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1 Before you begin

CAUTION

Before you begin, make sure that the repair environment for the tape drive is free of conditions that could cause electrostatic discharge (ESD).

To protect the tape drive from ESD, follow these procedures when repairing or testing it:

- Place a static protection mat on the work surface used for tape drive components. Use a 1-megohm resistor to ground the static protection mat.
- Wear a static protection wrist band whenever you handle tape drive printed circuit cards. Connect this wrist band to the static protection mat or to other suitable ESD grounding.

If there is a cartridge in the tape drive, remove it before performing any maintenance procedure.

Required tools

- Torque limiting screwdriver
- T-6 TORX bit
- 2.5 mm ballpoint Allen hex driver, at least 60 mm in length
- A pair of tweezers

2 Removing the top cover and faceplate

1. Using a T-6 screwdriver, remove the two side screws and one rear screw that attach the top cover to the tape drive (see Figure 1).

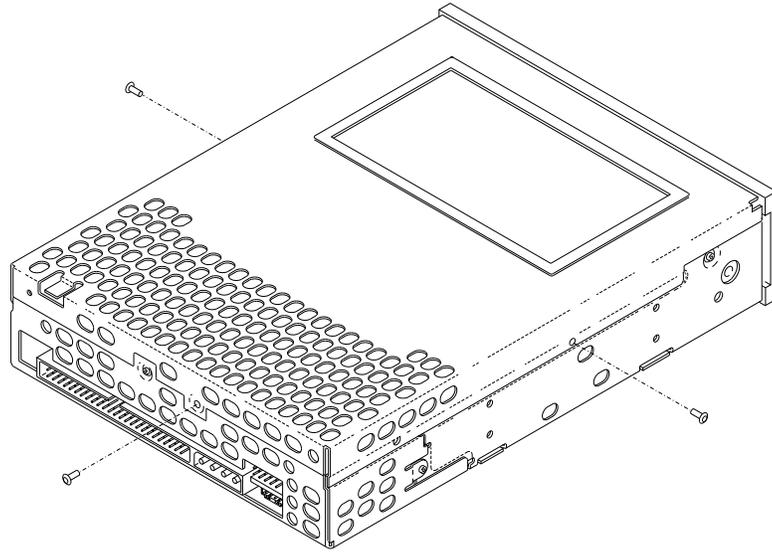


Figure 1 Removing the top cover

2. To remove the top cover, slide it back about 1 inch (2.6 cm). Lift the front edge first, and then remove the cover.
3. If your tape drive has an LCD on the faceplate, disconnect the LCD flex cable before you remove the faceplate. Unlock the LCD flex cable connector by pulling one end of the tab and then the other toward the cable (see Figure 2).

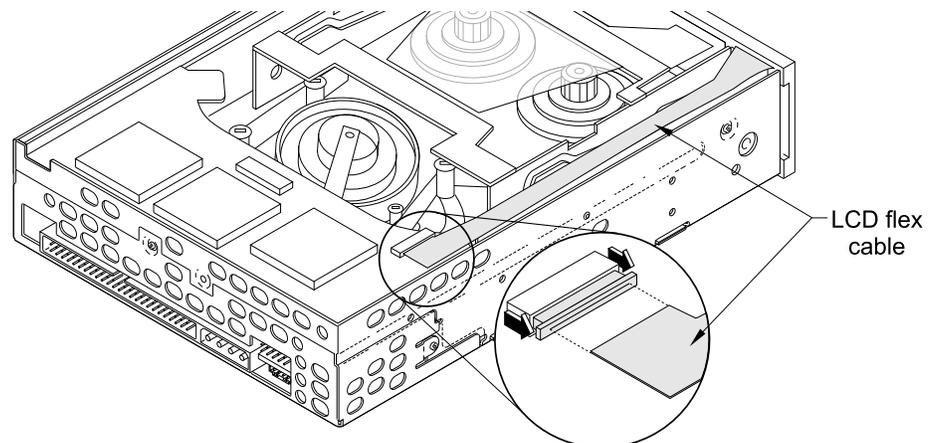


Figure 2 Loosening the LCD flex cable connector

2 Removing the top cover and faceplate

4. Gently pull the LCD flex cable out of the connector.
5. Press in the faceplate press tabs on both sides of the tape drive, as shown in Figure 3. Pull the faceplate straight out from the tape drive.

CAUTION

Make sure you pull the faceplate straight out to remove it. If you tilt or twist the faceplate, you could damage the LED card on the left side of the tape drive.

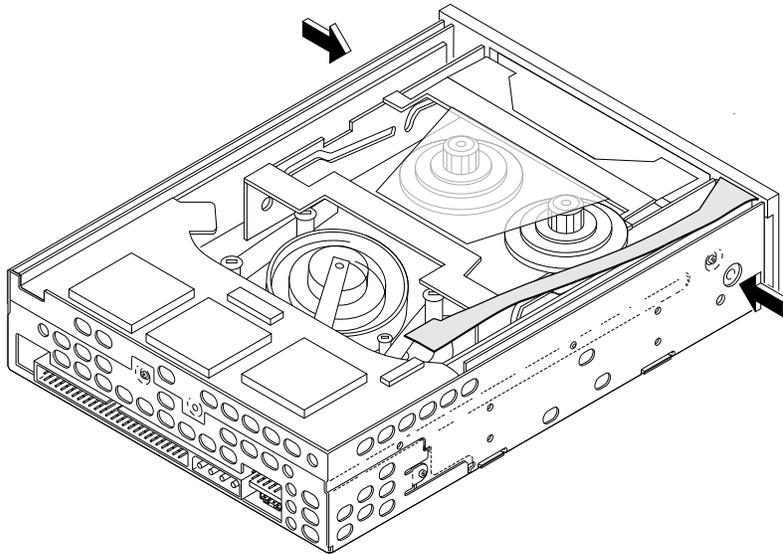


Figure 3 Removing the faceplate

3 Adjusting the cartridge loader

To access the door, you must move the cartridge loader into the “cartridge loaded” position.

1. Locate the cartridge unload hole on the left side of the tape drive, as shown in Figure 4.

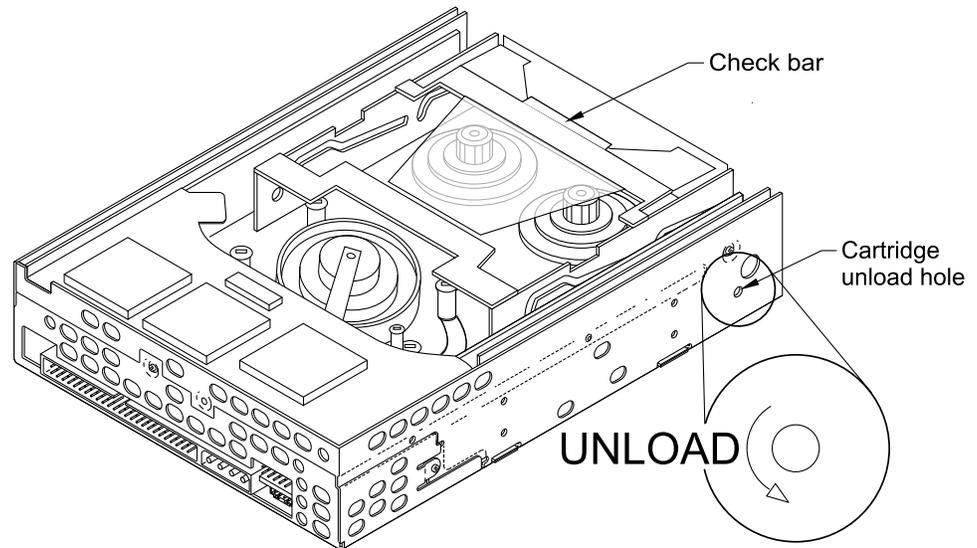


Figure 4 Adjusting the cartridge loader

2. Insert the ballpoint Allen hex driver into the unload hole, guiding it through a hole in the circuit card until it mates with a the gear in the cartridge loader.
3. Lift the cartridge loader check bar (see Figure 4) and hold it out of the way as you begin to turn the Allen driver clockwise.
4. Release the check bar, and continue to turn the Allen driver clockwise until the cartridge loader stops in the “cartridge loaded” position.
5. Remove the Allen driver from the cartridge unload hole.

4 Replacing the door

1. Lift the left end of the door hinge pin from the left door clip as shown in Figure 5.

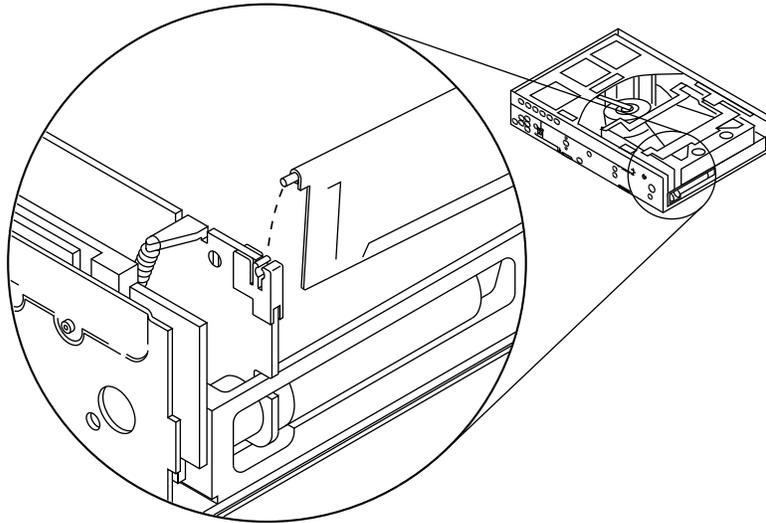


Figure 5 Removing the left hinge pin

2. Locate the spring on the right end of the hinge pin (see Figure 6). Using a pair of tweezers, remove the left end of the spring from the hole, as shown.

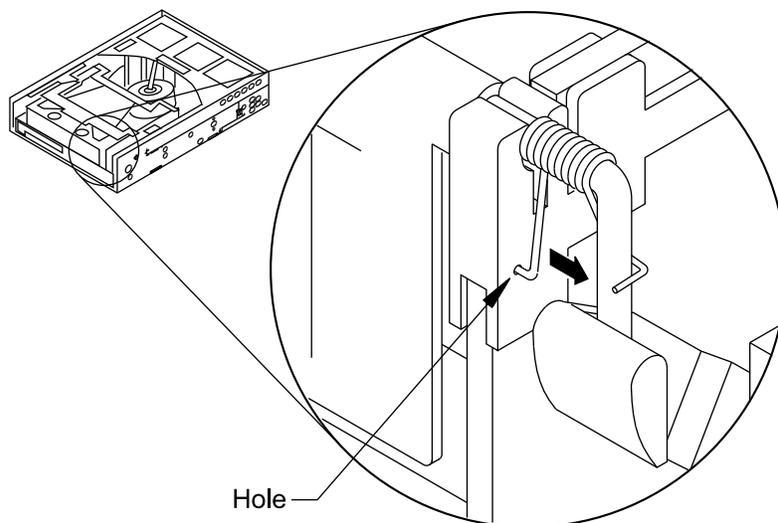


Figure 6 Removing the left end of the spring

3. Snap the right end of the hinge pin out of the right door clip as shown in Figure 7.

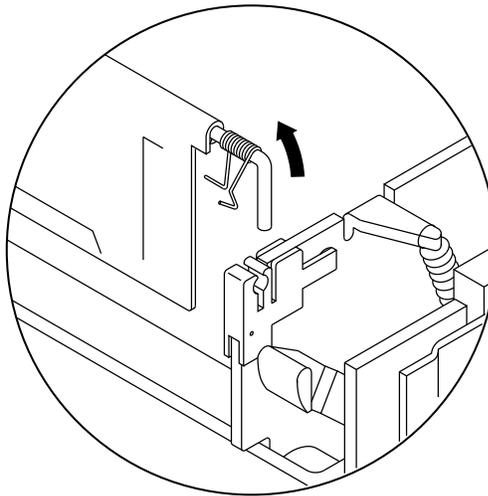


Figure 7 Removing the right hinge pin

4. If the door clips have become damaged or worn, replace them. To remove a door clip, insert a small screwdriver into the door clip hole and push gently against the clip. Slide the clip forward off the door frame (see Figure 8).

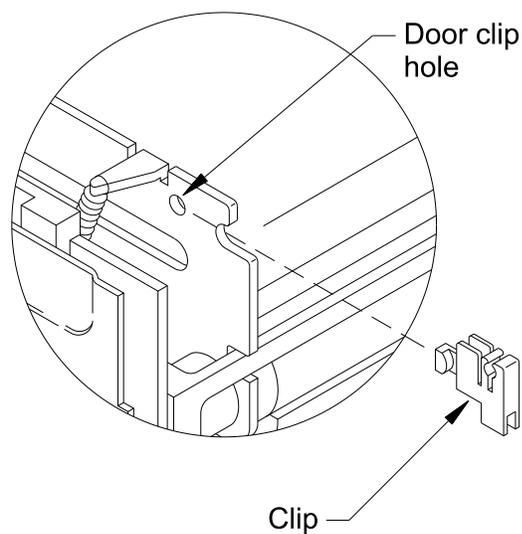


Figure 8 Replacing a door clip (left side shown)

5. Locate the replacement door clip and slide it onto the door frame.

4 Replacing the door

6. Locate the replacement door. Insert the left end of the hinge pin into the left door clip.

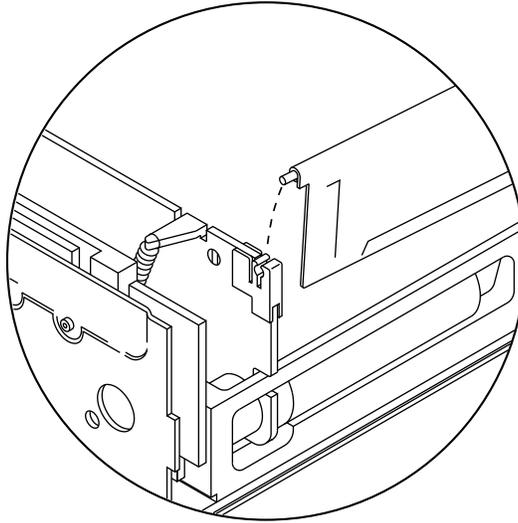


Figure 9 Inserting the left end of the hinge pin into the door clip

7. Snap the right end of the hinge pin into the right door clip. Be careful not to catch the spring in the door clip.
8. Locate the door lever on the right side of the door. Push the door lever up out of the way, as shown in Figure 10.

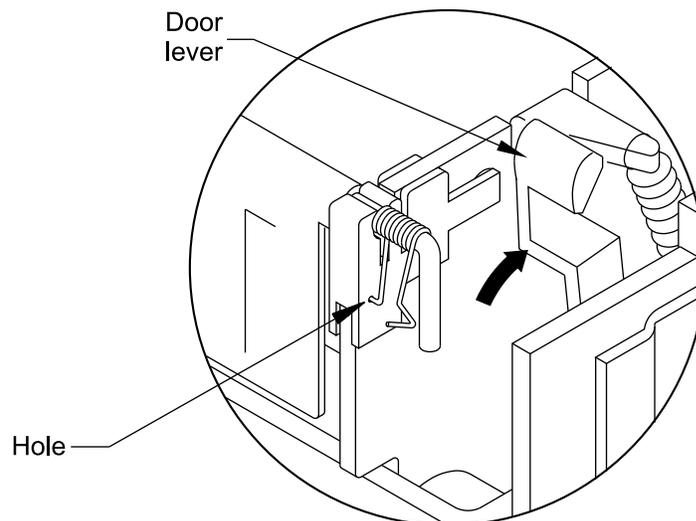


Figure 10 Repositioning the door lever and replacing the spring

9. Using a pair of tweezers, insert the left end of the spring into the door spring hole (see Figure 10).

10. With the door lever pushed back, push in the bottom of the door and rotate it around the hinge pin one and a half turns to tension the spring, as shown in Figure 11.

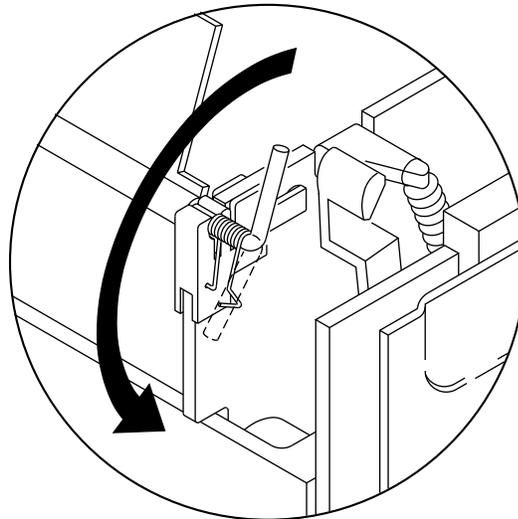


Figure 11 Tensioning the door spring

11. Holding the door up directly above the hinge pin, pull the door lever to the front, as shown in Figure 12.

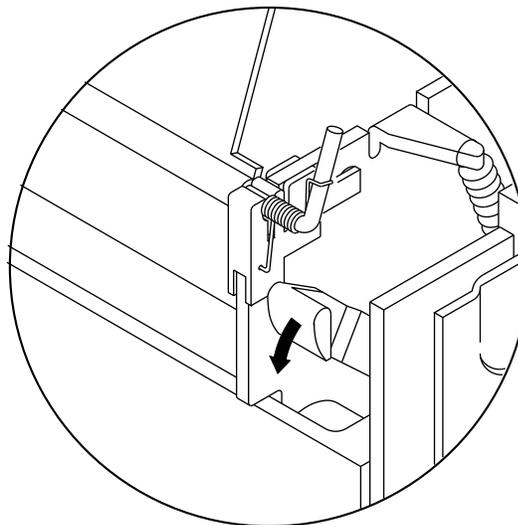


Figure 12 Pulling the door lever to the front

12. Release the door, then push it in to test it. If the door was tensioned correctly, it will close after you let it go.

5 Readjusting the cartridge loader

1. Insert the ballpoint Allen hex driver into the cartridge unload hole on the left side of the tape drive (see Figure 13).

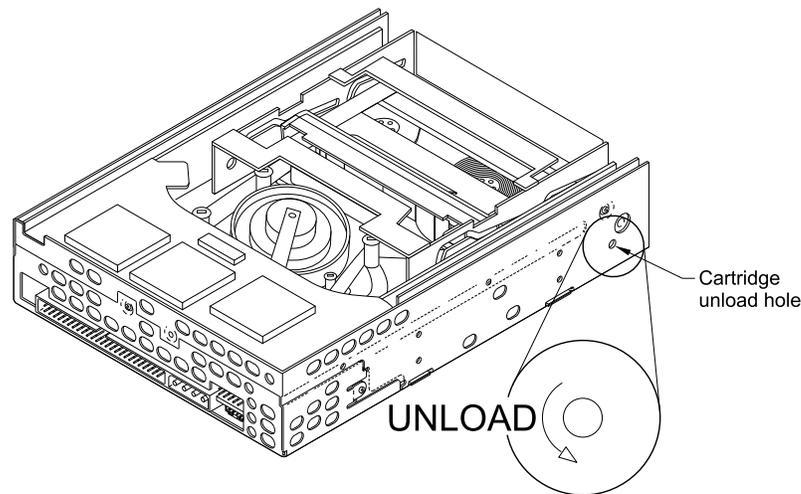


Figure 13 Readjusting the cartridge loader

2. Turn the Allen driver counterclockwise until the cartridge loader stops in the “cartridge unloaded” position.
3. Remove the Allen driver from the unload hole.

6 Replacing the faceplate and top cover

1. Place the tape drive on a flat surface. Align the bottom of the replacement faceplate with the bottom of the tape drive. Position the LED guard on the back of the faceplate on the left side of the tape drive.
2. Position the faceplate tabs inside the side panels, as shown, and press the faceplate onto the tape drive (see Figure 14).

CAUTION

Make sure you align the bottom of the faceplate with the bottom of the tape drive and position the faceplate tabs inside the side panels before you attach the faceplate. If you misalign the faceplate, you could break the LEDs off the printed circuit card.

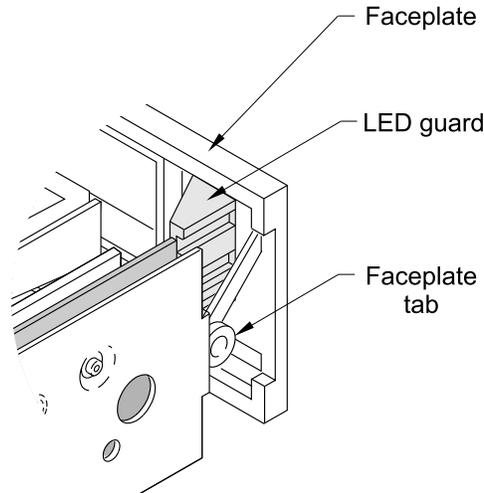


Figure 14 Positioning the faceplate

3. If your faceplate has an LCD, pull the tab on the LCD flex cable connector toward the left side panel (see Figure 15).

If your faceplate does not have an LCD, go to step 6, on page 11.

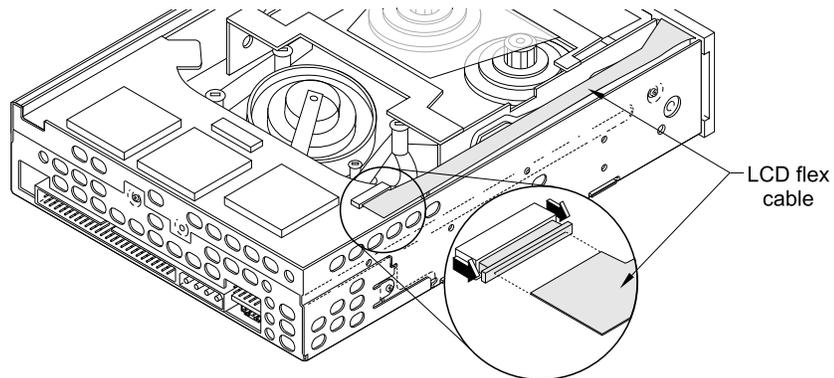


Figure 15 Loosening the tab on the LCD flex cable connector

4. Slide the LCD flex cable all the way into the connector on the card. Make sure the LCD flex cable is firmly seated in the connector.
5. Holding the flex cable firmly in place, press the tab into the connector to close it.
6. Place the top cover on the tape drive so that the back edge extends about 1 inch (2.6 cm) over the back of the tape drive. Slide the cover forward carefully, guiding the tab on the top cover under the lip of the faceplate.

7 After replacing the door

CAUTION

A mylar flap inside the tape drive protects the cartridge loader. Be careful not to catch the flap on the top cover window as you slide the top cover forward.

7. Replace the three screws that attach the top cover to the tape drive (see). Tighten the screws to 1.2 inch-pounds of torque.

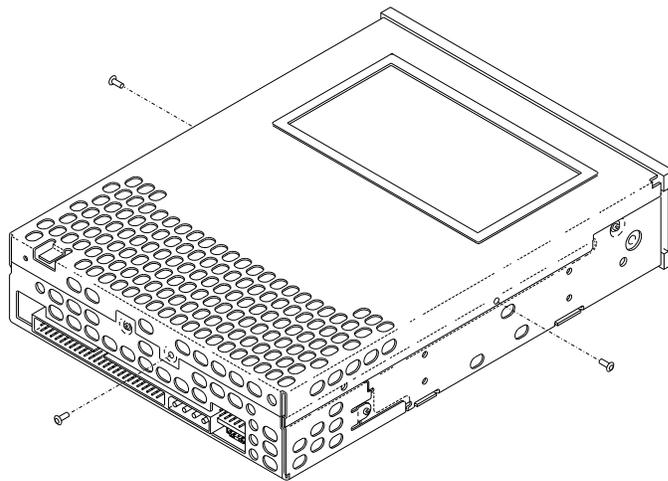


Figure 16 Replacing the top cover

7 After replacing the door

Reconnect the power cable and power on the tape drive. Insert a cartridge into the tape drive. Check the following operations:

- The cartridge loads and unloads smoothly
- The tape drive door closes when you pull the cartridge out
- If you have a faceplate with an LCD, make sure the LCD operates correctly. Refer to *Exabyte Mammoth Installation and Operation* (part number 306484) for more information about the LCD.

If you experience any problems, make sure:

- The faceplate is positioned squarely on the front of the tape drive
- The door spring was correctly retensioned
- The LCD flex cable is securely attached