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# Replacement Instructions

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**LED Card  
for the HP Router 650**

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This guide provides installation instructions for the following Hewlett-Packard Company non-exchange assembly:  
5063-5960

**Warranty**

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## Preparation

### Replacement Indications

If diagnosis of the HP J2430A Router 650 indicates a failure of any of the front panel LEDs themselves, rather than the components diagnosed by the LEDs, then you can replace only the LED card instead of the entire router chassis. See the “Verifying LED Operation” section in chapter 3 of the *Installation Guide* for the HP Router 650, part number 5962-8317.

(A failed Swap LED is replaced by replacing that interface module, not the LED card.)

The LED card is located inside the front door of the router.

### What’s Included and Not Included

This LED non-exchange assembly consists of the following items:

- *Replacement Instructions* (this manual, 5962-8370)
- The LED printed circuit assembly

This assembly does *not* include the following items that were attached to the original LED card or to the router door containing it. You must save these items from the currently installed LED card.

- One 8-mm-long #M3 × .5 Torx T-10 screw  
(This is the same type of screw used on the power supply and on the back panel of the router. HP part number 0515-2471)
- Six  $\frac{5}{16}$ -inch-long #6-19 Torx T-10 pan-head screws (0624-0784)

You will need the following additional items:

- Torx T-10 screwdriver
- The *Installation Guide* for the HP Router 650 (5962-8317)

## Replacement Procedure

1. Disconnect the power cord(s) from all power supplies, at the back of the router.

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### Caution

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In steps 2 through 4 below, be careful not to open the router door more than 90° from the front of the router. Opening it further could damage it.

2. Unlock the front door of the router by pulling its lock—the round post at the upper right—to the right, and hold the the door open at 90° from the front of the router.
3. Pull the white tab to disconnect the ribbon cable from its connector on the LED card inside the router door. Allow it to remain hanging from the cooling module.
4. Holding the router door open no more than 90°, remove it by lifting it up out of its hinges. You probably need to slowly wiggle the door a short distance to the right (to less than 90° open) and back (to 90°) while lifting it—and repeat—to loosen it. Apply upward pressure only near the hinged side of the door. When the door is detached, set it on a flat surface, with the inside (metal side) facing up.
5. Using a Torx T-10 screwdriver, remove the four pan-head screws securing the long horizontal portion of the door. The two other pan-head screws securing only the smaller vertical portion of the door need not be removed. (If you do remove them, the vertical plastic piece will be detached and must be reattached later, in step 9.)
6. Pull up the metal housing from the plastic door housing, holding down the vertical piece for leverage if needed. The LED card will pull up with the metal housing. Flip over the detached metal-and-card combination and place it down on the flat surface.
7. Using a Torx T-10 screwdriver, remove the single #M3 screw securing the LED card at one end to the metal housing. Remove the LED card.
8. To install the new LED card, continue to hold the metal housing in the same position (as described above in step 6). Position the new LED card with the LEDs facing up and the ribbon cable connector facing down. At the end of the card without the screw hole, insert the

tab of the card into the horizontal slot in the vertical sheet metal. Fit the long edges of the LED card around the corresponding tabs on the edges of the metal housing. Press the other tab end of the LED card down, so that its screw hole aligns atop the screw hole on the horizontal sheet metal tab. The card will be bowed slightly. Reinstall the #M3 screw.

When properly secured, with the card tab inserted properly into the slot, the card will make positive contact with the metal tabs along its long edges.

9. Reinsert the metal-and-card combination into the plastic door housing, until the sheet metal no longer extends beyond the edges of the plastic, and all screw holes line up. Using a Torx T-10 screwdriver, replace the four pan-head screws securing the long horizontal portion of the door. (Also replace the other two pan-head screws if they were removed in step 5 from the smaller vertical portion of the door.)
10. Fit the reassembled router door back onto the hinges of the chassis. Hold the door at 90° to the chassis and raised so that its top surface is 1/2-inch higher than the top surface of the chassis. Fit the narrow openings in the door's sheet metal around the hinges. The pins in the door should sit *above* the slots in the hinges. Carefully align and drop *both* pins simultaneously into the hinges. You probably need to slowly wiggle the door repeatedly from 90° to less than 90° as you press the door down, until the pins are fully engaged and the top surface of the door is at the same height as the chassis.

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**Caution**

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Do not hold the router door more than 90° from the front of the router. Opening the door further could damage it.

11. Reconnect the cable that you disconnected in step 3. Press the connector in place with your finger.
12. Reconnect the power cord(s), switch on the power switches of the power supplies, and close and latch the front door.
13. Verify the replacement LED card by doing the LED verification procedure again. See the instructions in the "Verifying LED Operation" section in chapter 3 of the *Installation Guide* for the HP Router 650.







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