# COMPAQ

# Ground Bonding Rack Option Kit

*Installation Instructions*

**View Guide**

## NOTICE

142555-022

## About This Device

This option reduces the electromagnetic emissions that may be given by electronic components operating within the rack cabinet. The kit ties all the conductive structural components of the rack together with conductive cables, and is designed to be attached to a ground-bonding point on the rack's AC power distribution device. It is intended for use with all Compaq 9000 Series racks.

## Kit Contents

Items and quantities required for assembly:

- 6-inch (15.24 cm) grounding strap (3)
- 14.5-inch (36.83 cm) grounding strap (4)
- Mountable wire tie (10)
- M8 nut (5)
- Internal serrated lock washer (5)
- M8 x 20 hex head screw
- Paint cutter washer (2)
- T-25 5.5 mm torx head screw (10)

This kit may contain extra pieces of hardware for your convenience

## Additional Equipment

You will also need:

- T-25 torx screwdriver
- Adjustable wrench

## Rack Considerations

Before beginning these procedures, make sure you understand and follow these precautions:

⚠ **WARNING:** To reduce the risk of personal injury or damage to the equipment, be sure that:
- The leveling jacks are extended to the floor.
- The full weight of the rack rests on the leveling jacks.
- The stabilizing feet are attached to the rack, if it is a single-rack installation.
- The racks are coupled in multiple-rack installations.
- Only one component is extended at a time. (A rack may become unstable if more than one component is extended for any reason.)
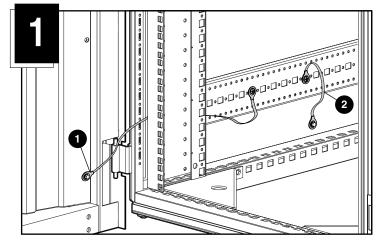
## Installation

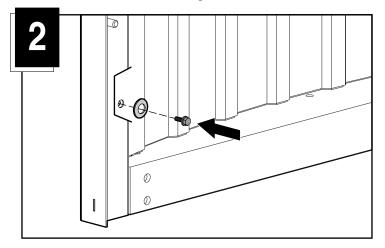Attach grounding straps to the locations shown in the following figures.

❶ From the front door to the system chassis rail:
   a. Remove the front door panel screw.

   b. Place one end of a 14-inch grounding strap over the screw, then place a paint cutter washer onto the screw.

   c. Reinsert and tighten the screw into the door panel.

   d. Insert a self-tapping screw through the other end of the grounding strap and secure it to the system chassis rail.

❷ From the system chassis rail to the side panel:
   a. Insert a self-tapping screw through one end of a 6-inch grounding strap and secure it to the system chassis rail.

b. Place an internal serrated lock washer over the ground lug on the side panel.

c. Place the other end of the grounding strap over the washer.

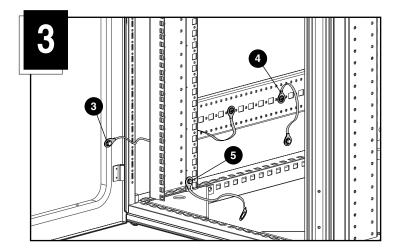d. Place a nut over the grounding strap and tighten the nut.



Remove the door screw, insert one paint cutter washer, then reinsert and tighten the screw.



❸   From the system chassis rail to the rear door:

   a. Insert a self-tapping screw through one end of a 14-inch grounding strap, then place a paint cutter washer and secure to the 4.5-mm hole on the rear stiffner door.

   b. Insert a T-25 torx head screw through the other end of the grounding strap and secure to the system chassis rail.
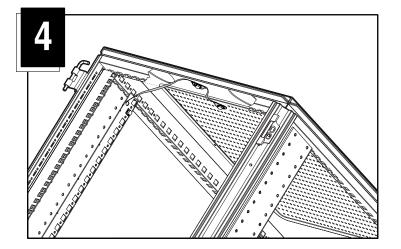
❹   *See ❷.*

❺   From the system chassis rail to a known earth (ground) reference "terminal."

   a. Insert the grounding bolt through the grounding bolt hole.

   b. From the inside of the rack, place one end of a 14-inch grounding strap over the end of the bolt.

   c. Place an internal serrated lock washer over the grounding strap.

   d. Place a nut over the washer and tighten the nut.

   e. Secure the other end of the grounding strap to a ground bonding terminal on the system AC power distribution device or a known earth reference terminal in the building.
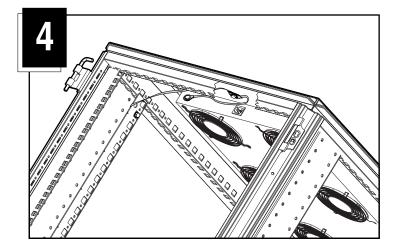
From the 19-inch mounting angle rail to the top of the rack, then to the perforated panel:

    a. Use a pair of pliers to remove the cap from the ground lug on the top of the rack and the perforated panel.

    b. Insert a self-tapping screw through one end of a 6-inch grounding strap and secure it to the 19-inch mounting angle rail.

    c. Place an internal serrated lock washer over the ground lug on the top inside of the rack.

    d. Place the other end of the grounding strap over the washer.

    e. Place one end of another 6-inch grounding strap over the one in step d.

    f. Place a nut over the grounding straps and tighten the nut.

    g. Place the other end of the grounding strap over the ground lug on the perforated panel.

    h. Place a nut over the grounding strap and tighten the nut.

*or*

From the 19-inch mounting angle rail to the top of the rack, then to the fan kit:

    a. Use a pair of pliers to remove the cap from the ground lug on the top of the rack and the fan kit.

    b. Insert a self-tapping screw through one end of a 6-inch grounding strap and secure it to the 19-inch mounting angle rail.

    c. Place an internal serrated lock washer over the ground lug on the top inside of the rack.

    d. Place the other end of the grounding strap over the washer.

    e. Place one end of another 6-inch grounding strap over the one in step d.

    f. Place a nut over the grounding straps and tighten the nut.

    g. Place the other end of the grounding strap over the ground lug on the fan kit.

    h. Place a nut over the grounding strap and tighten the nut.



## *Installation is complete.*