

E971FBDI & E971FBDIB Drop-In Floor Box Receptacle Replacement Procedure

5-1-07

Tools needed: small flat blade screwdriver, small Phillips screwdriver.

All floor boxes shall be installed per the Canadian Electrical Code and any local amendments.

Plug the provided circuit tester into the floor box receptacle.



If the two yellow lights illuminate, nothing further needs to be done. Your floor box is correctly wired. If the red light and adjacent yellow light illuminate, then proceed to the next step.

CAUTION: TURN OFF THE AC ELECTRICAL POWER, AT THE BREAKER BOX OR FUSE BOX, WHICH SUPPLIES THE POWER TO THE DROP-IN FLOOR BOX. VERIFY THAT THE POWER IS OFF WITH THE CIRCUIT TESTER PLUGGED INTO THE RECEPTACLE. NONE OF THE LIGHTS ON THE TESTER SHOULD NOW BE ILLUMINATED.

Using the Phillips screwdriver, remove the two brass cover screws and pull the brass cover with the plastic round floor box up out of the floor.

Remove the brass cover plate. See Fig. 1



Fig. 1

Remove the two brass screws from the clamp on the bottom of the round floor box. Remove the clamp and bottom cover plate.

Pull the wires out of the floor box far enough to see the wire nuts. Untwist the three wire nuts and remove them. Save the wire nuts.

For each of the three latch points holding the receptacle plate in the round floor box tube, use the tip of a small screwdriver and push inwards at the bottom of the latch, then pry upwards. See Fig. 2



Fig. 2

After unlatching the three latches, push the screwdriver up through the three latch holes and force the receptacle plate up and out of the top of the round floor box. Discard this receptacle, attached wires and gray plastic plate.

Using the new replacement receptacle and gray plastic plate, align the three latches on the receptacle plate with the three latch holes in the round floor box tube. See Fig. 3

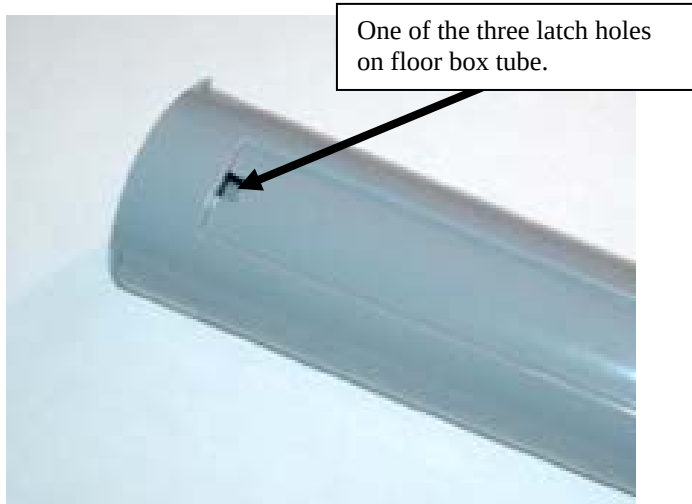


Fig. 3

While aligning the receptacle plate slots with the ribs on the inside of the round floor box, push the receptacle plate back into the round floor box tube until the three latches snap into the three latch holes in the side of the tube. It may require extra force to push the receptacle plate all the way down to the latch point. The receptacle plate is made with a tough polycarbonate material and should not break from push-in forces.

Pull the black, white, and green wires out of the bottom of the round floor box.

Twist together the bare white wire from the receptacle with the bare white wire from the AC power cable. Tighten a wire nut onto these twisted wires.

Twist together the bare black wire from the receptacle with the bare black wire from the AC power cable. Tighten a wire nut onto these twisted wires.

Twist together the green wire from the receptacle with the ground wire from the AC power cable. Tighten a wire nut onto these twisted wires. See Fig. 4 for the correctly connected wires.



Fig. 4

Push the wire nut connections back into the round floor box. Place the bottom cover plate onto the bottom of the round floor box. Allow the AC power cable to exit through the opening in the bottom cover. Secure wire clamp and bottom cover with two screws. See Fig. 5



Fig. 5

Push the floor box assembly back into the hole in the floor. Reinstall the two screws through the brass cover plate and down into the floor.

Turn on the floor box receptacle AC power previously turned off at the breaker box or fuse box. Insert the circuit tester into the receptacle. If the two yellow lights illuminate, the floor box is wired correctly.