

How To Install A 3-Pronged Grounded Adapter Plug

A grounded adapter is a must for power tools and appliances in order to prevent the possibility of electrical shocks. If your wall outlet does not have a 3-pronged receptacle, it is essential that you install a grounded adapter.

Utensils

Medium flat blade screwdriver
Voltage tester or test light

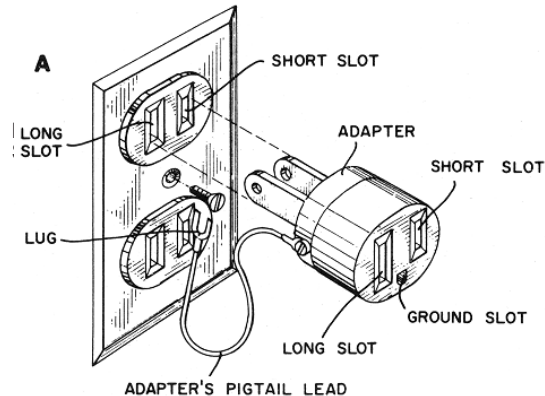
Ingredients

Grounded adapter with 2-pronged male plug and grounded lead at one end and 3-pronged female connection at other

Approximate Time: 15 To 30 Minutes

How To Install the Adapter

1. Unscrew center screw of wall outlet in counterclockwise direction (Fig.63A).
2. Scrape away all paint from around and under screw.
3. Place outlet center screw through lug end of adapter's pigtail lead. See Figure 63A.
4. Screw back into wall outlet.
5. Plug adapter into wall outlet.
6. Insert leads of test light into slots of plug. The light should light. If not, remove plug and test wall outlet directly with test light to see if current is flowing. It usually is. If not, check your fuses. And, if that's not the cause, you may have to replace wall outlet or call an electrician.
7. Replug adapter and insert test leads into short slot and the "U" or "O"-shaped ground slot of the adapter (Fig. 63A). Light should light.
8. If not, unplug adapter and reverse position of prongs in the wall outlet. Test with light. Light should light. If not, this means that the adapter is not grounded and must be grounded at once for safe operation of power tools in that outlet.



Procedure for Remote Grounding of Adapter

Utensils

Small adjustable wrench
Pipe grounding bracket
Soldering iron
Wire stripper Long-nosed pliers

Ingredients

Length of #14 stranded insulated wire to reach from water pipe to electrical outlet
Coil of solder, resin core & Soldering flux (non-acid)
1/8" inch machine screw (1/2" inch long) with round head and nut

1. Connect grounding bracket to nearest water or steam pipe, as shown in Figure 63B.
2. Strip back 1/2" inch of insulation from both ends of #14 wire with wire stripper.
3. Twist the open strands of wire together and dip bared wire ends into soldering flux.
4. Heat one fluxed end with soldering iron.
5. Apply end of solder coil to heated end and let run freely through strands, sealing them. Repeat for other end.
6. Form hook at soldered ends with long-nosed pliers.
7. Wrap one hook around screw on grounding bracket in clockwise direction and screw firmly into place.
8. insert machine screw through lug in adapter's pigtail lead (Fig. 63C).
9. Hook other end of #14 wire around machine screw, and screw nut and machine screw securely together with wrench and screwdriver (Fig. 63C).
10. Repeat steps 5 through 8 for test procedure.

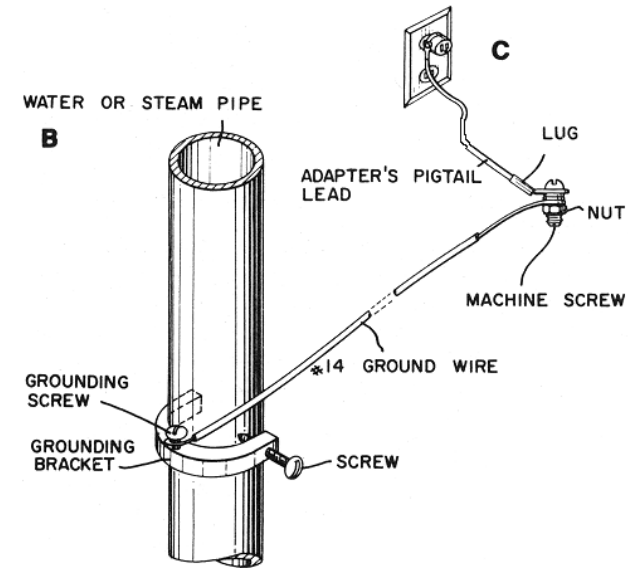


Figure 63.
Procedure for 3-Pronged Adapter