

How To Install & Replace Female Extension Plug

With an extension cord, as in romance, it "takes two to tango." The male end is worthless without the female. Here is a simple recipe, very similar to the preceding one, for the speedy repair of a female extension plug.

Utensils

Diagonal cutter
Pocketknife
Wire stripper
Medium flat blade screwdriver
Long-nosed pliers

Ingredients

Soldering flux (non-acid)
Coil of solder, resin core
2 or 3-pronged heavy-duty female plug

Approximate Time: 30 Minutes

1. Unplug male end from wall outlet and unplug all appliances from female end.
2. Cut off defective plug and 2" inches of cord with diagonal cutters.
3. Slit cord insulation (if fabric) with pocketknife and strip back 2" to 4" inches, baring inner insulation. Note: When there is no outer insulation, 1" inch of the plastic or rubber-covered wire should be removed with pocketknife.
4. With wire stripper, remove 1" inch of inner insulation on all wires, taking care not to damage inner strands.
5. Twist loose wire strands together, once bared (Fig. 57A).
6. Dip bared wire into soldering flux or paste.
7. Heat each wire with soldering iron (Fig. 57B).
8. Apply end of solder coil and let run freely through strands, sealing them.
9. Disassemble female plug (Fig. 57C). The plug is held together by two screws. Once apart, screws and face section should be put aside.
10. Take hold of the terminal section (the one with screws, plug prongs, and occasionally a clamp).
11. Feed sealed wires through rear of terminal section of piug.
12. Tie underwriter's knot, as shown in Figure 57D.
13. Tug insulated portion of wire cord until knot catches in plug.
14. Loosen terminal screws as far as they will go, but do not remove.
15. With long-nosed pliers, form a hook at the end of each wire and wrap hooks tightly under terminal screws in clockwise direction (Fig. 57E).

16. Tighten screws over hooks and cut off excess wire with diagonal cutters.
17. If you are working with a 3-pronged plug, hook up the wire as follows: white wire to silver terminal; black wire to brass terminal; green wire to U-shaped terminal.
18. Reset face section of plug onto terminal section, making sure that screw holes are in line with screws and that prongs penetrate properly.
19. Screw all screws tightly into position. Do not overtighten.
20. Test your new extension cord by plugging male end into wall outlet and inserting a male plug from an electrical appliance into your new female extension plug. Energize the appliance. All systems should be "go."
21. If system is not operational, plug appliance directly into wall outlet. If appliance operates, you'll have to reexamine your own wiring job.

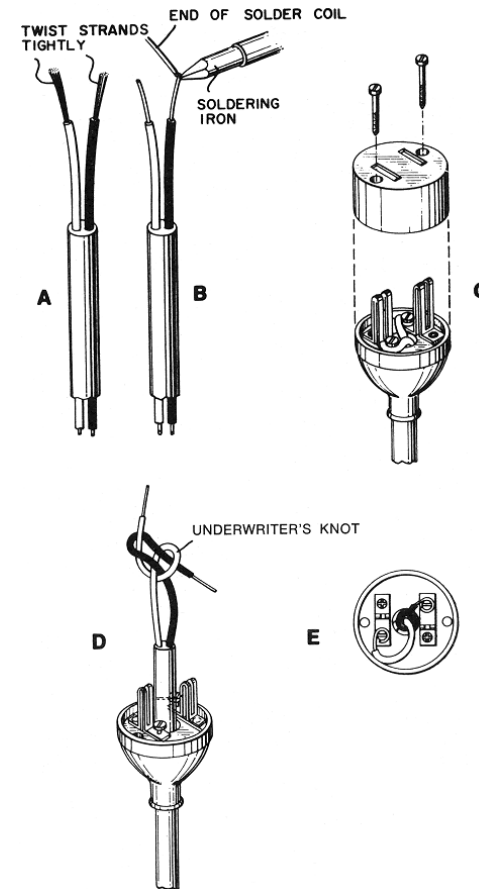


Figure 57.
Repairing Female Extension Plug