

How To Install A Ceiling Fixture (with Bar Strap)

What happens when the screw holes in the new ceiling fixture you want to install do not match up with the old ones? Easy. Introducing the bar strap! The procedure for making this installation is virtually identical with the preceding recipe. It will just take a few minutes longer to install the bar strap.

Utensils

Medium flat blade screwdriver
Adjustable pliers
Drill
Bits
Soldering iron
Long-nosed pliers
Wire stripper

Ingredients

Ceiling fixture
Fixture stud, if none exists in ceiling box
Assortment of sheet metal screws
One to two extension nipples
Bar strap to match holes in new fixture
Lock nut to match stud or nipples
Coil of solder, resin core
Soldering flux (non-acid)
Two #8 wire nuts
Two 8/32" inch machine screws, 1", 1" 1/2, or 2" inches long, as necessary

Approximate Time: 30 To 45 Minutes, Depending On Size And Weight Of New Fixture

1. **Turn off current** by disengaging appropriate fuse or circuit-breaker.
2. Remove old fixture by unscrewing screws in counterclockwise direction. Pull fixture away gently so as not to break plaster. Disconnect wires.
3. Examine ceiling box. If there is no stud, install one (as shown in Fig. 66A) by drilling into ceiling box and securing stud with sheet metal screws. Four holes and four screws will be necessary.
4. Place center hole of bar strap over stud. If it does not reach, it will be necessary to install 1 or 2 nipples to the stud.



5. With stud (or nipple) protruding through center hole of bar strap, install lock nut as shown in Figure 65A. Tighten with pliers in clockwise direction, but do not over tighten.
6. If wires from ceiling box have been soldered or taped together, cut those sections away.
7. Strip back 1/2" inch of insulation from the ends of wires from ceiling box and from fixture, with wire stripper, exposing the inner strands.
8. Twist strands together in clockwise direction.
9. Solder each wire end and let cool.
10. Connect wires from ceiling box to wires from fixture: black to black and white to white. If both wires from the ceiling box are white, then they may be connected arbitrarily to the wires from the fixture (Fig. 65B).
11. Place wire nuts over exposed ends.
12. Stuff wires into ceiling box.
13. Screw fixture into bar strap using machine screws.
14. Insert bulb.
15. Turn on current and energize fixture.

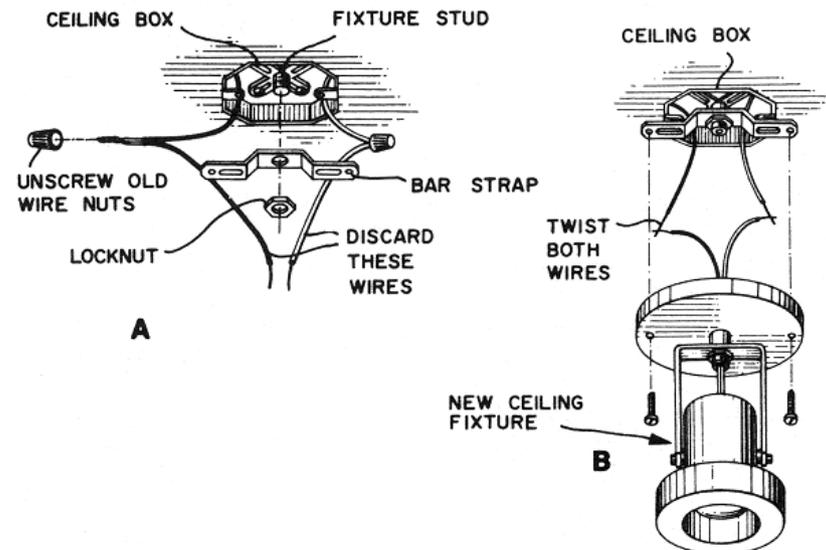


Figure 65.
Installing A Ceiling Fixture
With Bar Strap