

Opening a hole for the distribution box

Article Overview

To open a hole in a distribution box, remove a "knockout" by carefully pressing, tapping, and twisting it out using a screwdriver or pliers while ensuring the power is off.

Safety First

Before starting, turn off all power to the distribution box and verify with a voltage tester to prevent electric shock or burns (). Always wear insulated gloves and safety glasses when working with electrical enclosures.

Identifying the Knockout

A knockout (KO) is a partially stamped circular opening in the box designed for cable or conduit entry. Distribution boxes usually have multiple KOs of different sizes on various surfaces (). Choose the KO that matches the connector or conduit you plan to use.

Tools Needed

- o Flathead screwdriver or punch
- o Pliers (needle-nose or standard)
- o Hammer (optional, for tapping)
- o Drill with hole saw (for larger custom openings, if necessary) ()

Step-by-Step Removal

- o Locate the KO: Pick the one that is easiest to access and fits your cable or conduit.
- o Loosen the KO: Place the edge of a screwdriver against the inner edge of the KO, opposite the attachment point. Press firmly or tap lightly with a hammer to loosen it ().
- o Twist and Remove: Once loosened, twist the KO back and forth with your fingers or pliers until it detaches completely.
- o Smooth Edges: Check the edges of the opening. If sharp, file or use a grommet to protect wires from damage ().

Installing Cables or Conduits

After removing the KO, insert the cable or conduit through the hole. Use glands or grommets to secure and protect the wiring, ensuring a safe and compliant installation ().

Tips



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- o Start with the smallest KO that fits your connector to maintain box integrity.
- o For multiple cables, use separate KOs to avoid overcrowding.
- o Always double-check that the box is properly mounted and level before wiring (). Following these steps ensures a safe and effective way to open a hole in a distribution box for wiring or conduit installation.

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The fixing holes of the box body are aligned with the holes of the wall body. First fix the box body slightly, and then screw down the

Marking and drilling: According to the predetermined installation position, mark the fixed point on the wall or

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