

60A Non-Fused A/C Disconnect

Important Safety Information:

- ⚠ Electrical hazard: Installation must be performed by a qualified electrician in accordance with the National Electrical Code (NEC) and all local codes.
- ⚠ Power must be turned **OFF** at the main breaker before installation.
- This disconnect **does not** provide overcurrent protection. A properly sized breaker must be installed upstream.

Tools & Materials Required:

- Screwdrivers (flathead and Phillips)
- Drill and mounting hardware
- Conduit and fittings (as required)
- Approved electrical wire (copper only)
- Wire stripper
- Torque screwdriver or wrench
- Multimeter

Specifications:

- **Voltage:** 240 VAC.
- **Current Rating:** 60 Amps
- **Type:** Non-Fused
- **Enclosure:** Metal, outdoor rated NEMA 3R
- **Application:** Air conditioners and heat pumps



Installation Location:

- Mount within sight and readily accessible from the AC unit.
- Typical mounting height: 4–6 ft above ground level.
As shown in Figure 1
- Ensure enclosure is securely mounted to a solid surface.
- Maintain proper clearances as required by code.

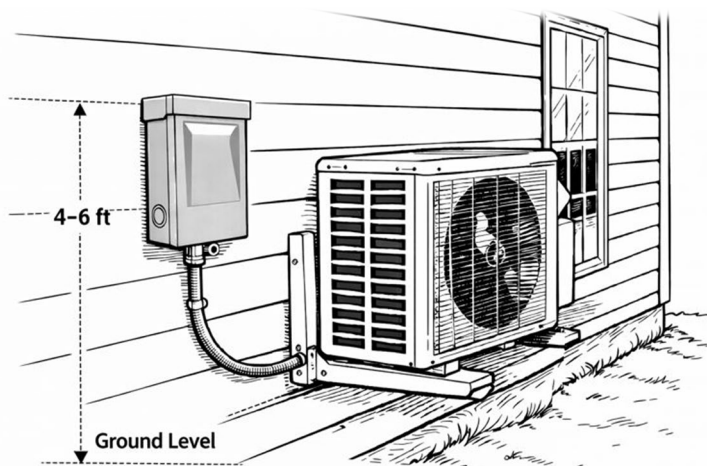


Figure 1 Typical AC Disconnect Mounting Height

Installation Steps:

1 Power Off

- Turn OFF power at the main service panel.
- Verify power is off using a multimeter

2 Mount the Disconnect

- Remove the disconnect cover.
- Position the enclosure against the mounting surface.
- Secure using appropriate field supplied screws or anchors through the mounting holes as shown in *Figure 2*
- Ensure the enclosure is level and firmly attached.

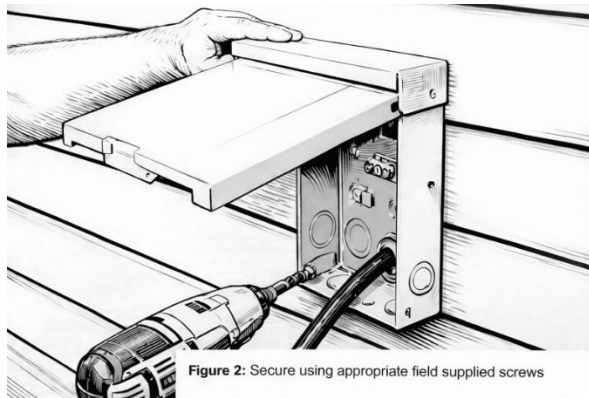


Figure 2: Secure using appropriate field supplied screws

3 Conduit & Wire Entry

- Remove the appropriate knockout(s).
- Install approved conduit fittings.
- Route as shown in *Figure 3*
Line (incoming) conductors from the breaker panel.
Load (outgoing) conductors to the AC unit.

4 Wire Connections

⚠ Use copper conductors only rated 167F / 75°C or higher.

- Connect incoming power wires to the terminals labeled **LINE**.
- Connect outgoing wires to the terminals labeled **LOAD**.
- Tighten terminals to the manufacturer's specified torque as listed in the specification document
- Connect the grounding conductor to the **ground lug**.

5 Verify Operation

- Ensure all connections are tight and properly seated. as shown in *Figure 4*
- Reinstall the disconnect cover
- Turn the disconnect switch to the **OFF** position.
- Restore power at the main breaker.
- Switch the disconnect to **ON** and verify proper operation of the AC unit.

6 Final Checks

- Enclosure cover is securely fastened
- No exposed conductors
- Proper grounding confirmed
- Switch moves freely between ON/OFF

Maintenance:

- **Always turn power off before servicing.**
- Periodically inspect for corrosion, loose connections, or physical damage.

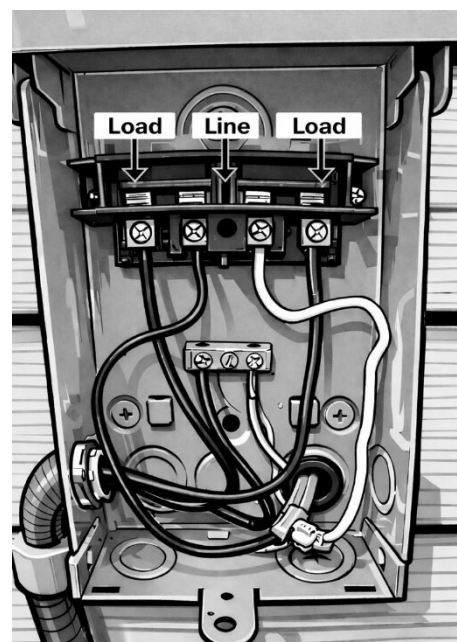


Figure 3: Proper Wire Configuration

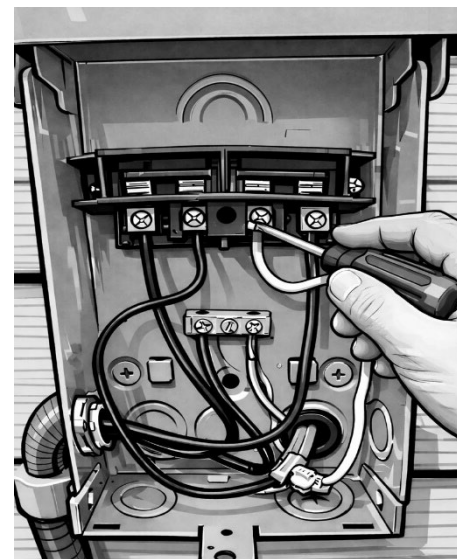


Figure 4: Ensure all terminals are properly tightened