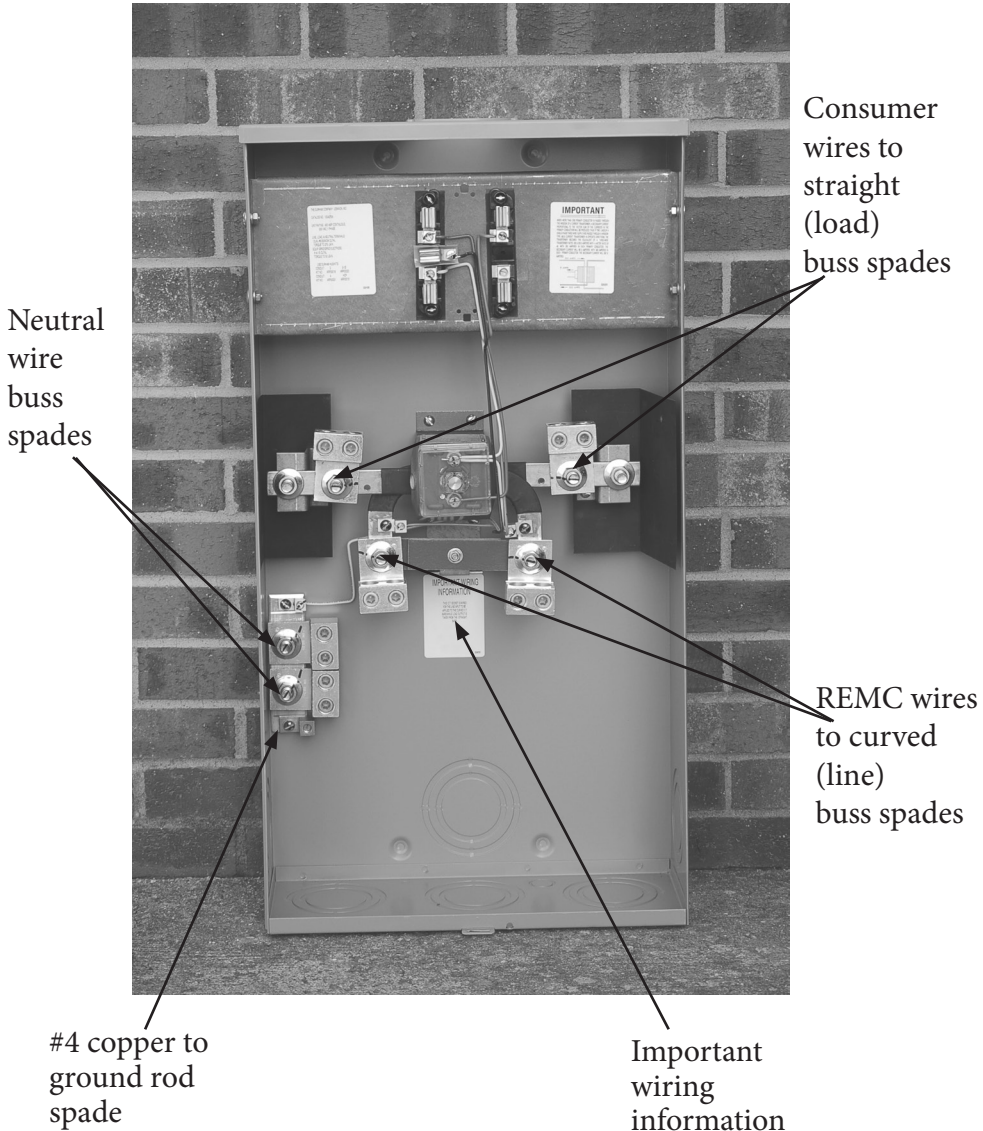


400 amp Meter Base Correct Wiring Diagram



Meter base ground must be unbroken from ground rod to ground connection in base. Ground wire must be in 1/2" thin wall conduit or 1/2" grey electrical PVC. Connect #4 copper to ground rod with an Acorn ground clamp.

Purpose

The purpose of these electric service rules, which apply to Jasper County REMC member's wiring installations, is to provide Jasper County REMC members and their electricians with a guide for use in planning for electric service. Any service larger than 200 amp consult with the Cooperative.

Codes and rules

The Indiana State Electrical Code specifies the minimum requirements for all wiring installations in Indiana. The cooperative imposes few additional requirements. The cooperative is not required to inspect any member's wiring, equipment, or devices to safety suitability, or compliance with code requirements. The cooperative may refuse or disconnect service to any installation which does not conform to an applicable cooperative rule. All national, state, county, city Codes must be adhered to along with REMC requirements.

SERVICE DROPS AND SERVICE ENTRANCES

Jasper County REMC requests that you call at least three business days in advance before digging the trench for your underground service so we can schedule for that day. The trench depth must be 30" on secondary and 4' on primary. Cost of trenching is the responsibility of the owner. It is also the owner's responsibility to call 811 to have all other buried wire, cable, tile, etc. located and marked before beginning trenching.

Service drops

- It is the member's responsibility to have the meter base installed before calling REMC to install the service.
- The cooperative will furnish and install an overhead service to an acceptable point of support or yard pole on the member's premises, or furnish and install an underground service, except trenching, to an acceptable metering point wherever it is deemed feasible.

Ownership and location

In all cases the member furnishes and installs the service entrance and is responsible for its upkeep and repair. The cooperative, after consulting with the member, designates the location of the service entrance and meter.

Attachment of service drops

- If a structure to which an overhead service drop is to be run is not high enough to give the required clearance to the ground, the member shall furnish and install a higher support strong enough to withstand severe ice and wind loading, which will give the required ground clearance.
- The cooperative will connect the service entrance wires to the service drops. No one else shall make these connections.

Capacity and disconnects

- All wiring, including entrance conductors and switches, shall be of ample capacity of any load that may reasonably be expected to develop, and in all cases shall be of sufficient capacity to meet Code Requirements.
- Service entrance conductors, disconnects and devices of at least 100 ampere capacity are required except when special services of less than 100 ampere capacity shall be approved in writing by the cooperative.
- A single disconnecting means is required on all services. This single disconnect (fusible or breaker) must be ten (10) feet or less of wire length from the meter socket.

Meter locations

- Meter sockets, enclosures, or cabinets shall be installed on a substantial building or on a suitable yard pole, treated post or meter pedestal. They may not be installed where they may have mechanical injury or vibrations.
- All meters, meter sockets, meter loops shall be accessible outdoor installations for meter reading and testing.

Yard poles

For overhead service installations where it is impractical to install the meter on a building, the member may purchase a pole from the Cooperative. The member's metering equipment and distribution wires may be installed on this pole which supports the Cooperative's service drop termination.

Meter Sockets

- The cooperative will provide the 100 & 200 amp only meter base for new construction. Any cabinets and enclosures shall be furnished by the member. They shall be wired in a manner that will not interfere with mounting and sealing the meter and be properly grounded. Meter sockets shall be mounted plumb and at approximately 5 to 5 1/2 feet above ground, except as noted otherwise.
- If any knock outs are removed and not enclosed, the member shall furnish a plug.
- The REMC will connect service entrance wires to the service drops. No one else can make these connections.

Underground Services

- For underground services where the cooperative extends its service wires to the meter socket, the member will furnish and install suitable conduit or raceway to the meter socket for protection of the cooperative's service wires. Also, a 90 degree long sweeping elbow and horizontal conduit, not less than twenty (20) feet out from building, or as required to clear all above or below ground obstacles.
- Underground service crossing any type of walk/driveway, or roadways require conduit furnished by member.
- Give Jasper County REMC three business days' notice before you dig the trench for your underground service to make sure the REMC can schedule you for that day. The trench depth must be 30" on secondary and 4' on primary. Cost of trenching is the responsibility of the owner.

Grounding

All sockets, disconnects, etc. shall be grounded in accordance with applicable codes. Grounding rods and clamps must be approved types. Copperweld rods and bronze clamps are recommended. One ground is required except as noted.

100 amp service 6 copper

200 amp service 4 copper

400 amp service 4 copper

Notes

1. On single family homes, 120-240 volt service equipment must have 10,000 amp interrupting capacity rating.
2. Insulated neutral conductors shall be identified from other conductors according to Code.