

Meter Base – Grounding and Bonding

Distribution Company Awareness

ESA published Bulletin 10-15-* and issued a Toolbox Talks document ([ESA Toolbox Talks - ESA \(esasafe.com\)](#) – January 2024), on meter base grounding & bonding on the supply side of the service box and is sharing some of this content with Electrical Distributors.

Introduction

Approximately a year prior to this bulletin's creation date, ESA identified an increase of installed meter bases where the neutral block is isolated from the enclosure. When the neutral is isolated from the enclosure, a bonding conductor is required to be installed between the meter base and consumer service, as per OESC Rule 10-210. Meter bases with an isolated neutral to the enclosure, are sometimes marked to indicate they are permanently isolated.

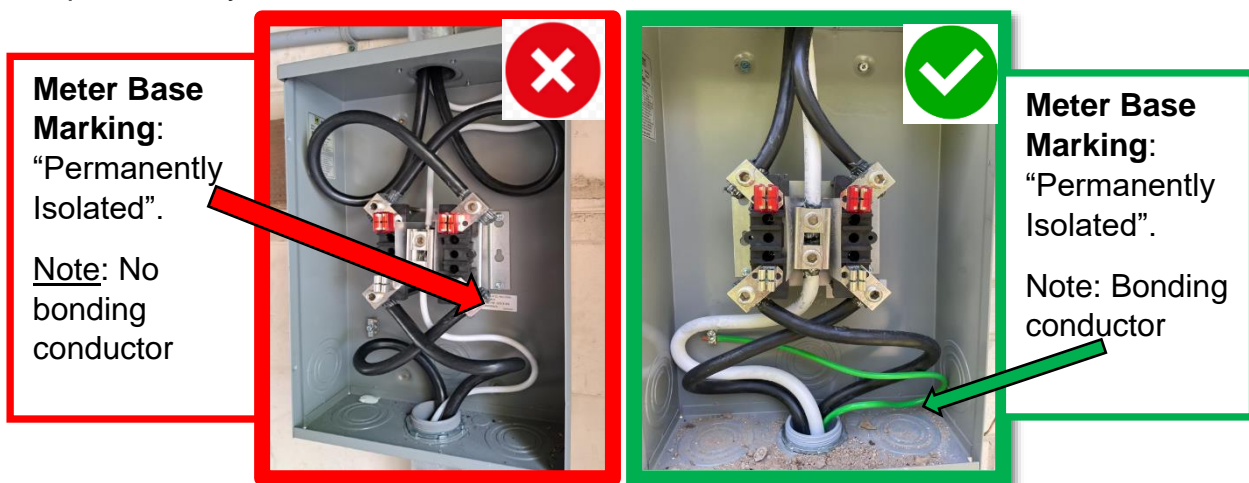


Figure 1

Figure 2

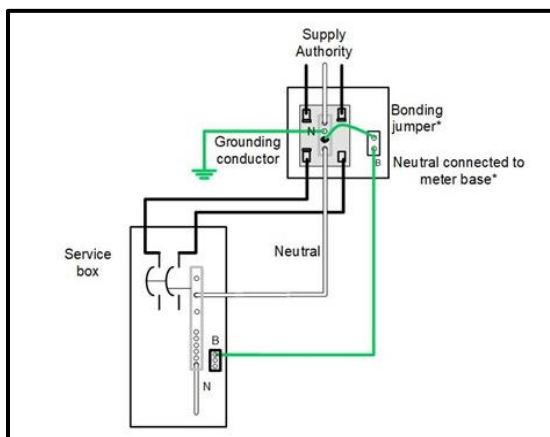
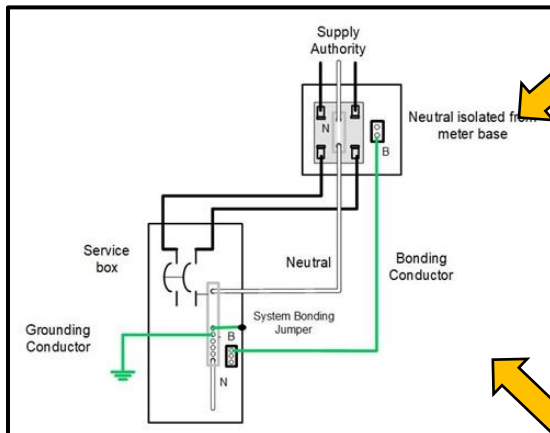
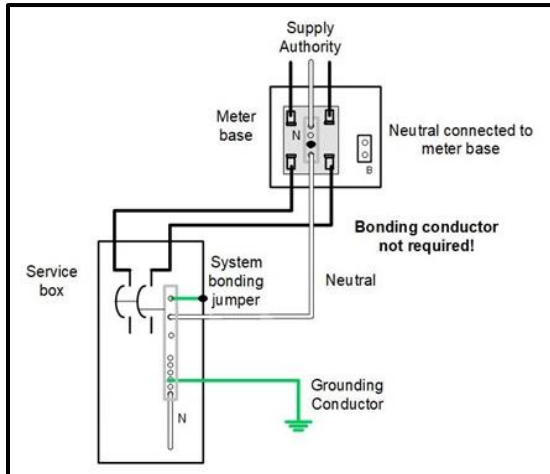
ESA Recommends

Informing staff that perform meter replacements that if they identify an isolated neutral assembly within the meter base and no bonding conductor exists within the meter base, this is a potential safety hazard. Note, some the meter bases will be marked to identify if the neutral is isolated or bonded, however not all are marked and labels sometimes fall off the meter base.

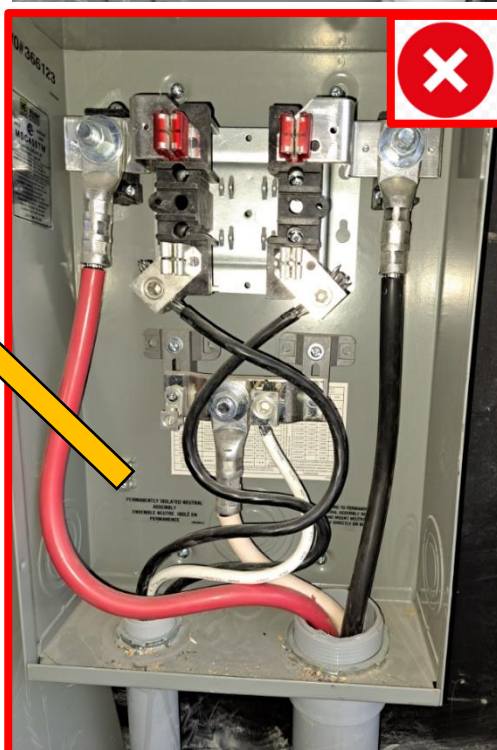
Review of the Conditions of Service for Electrical Distributors that specify acceptable meter base, meter-mounting devices or meter-socket model numbers.

Note: The following pictures and diagrams be used to help inform staff.

OESC Permitted Grounding and Bonding Diagrams



Meter Base Marking Pictures



**Meter Base
Marking:**
"Permanently
Isolated".

Note: No
bonding
conductor