

## Meter Bases for Residential Services

### Did You Know?

Meter bases may have different neutral assembly configurations that are not easily distinguishable from one another – failing to recognize the difference may result in a non-compliant installation and a potential safety hazard.

### Background

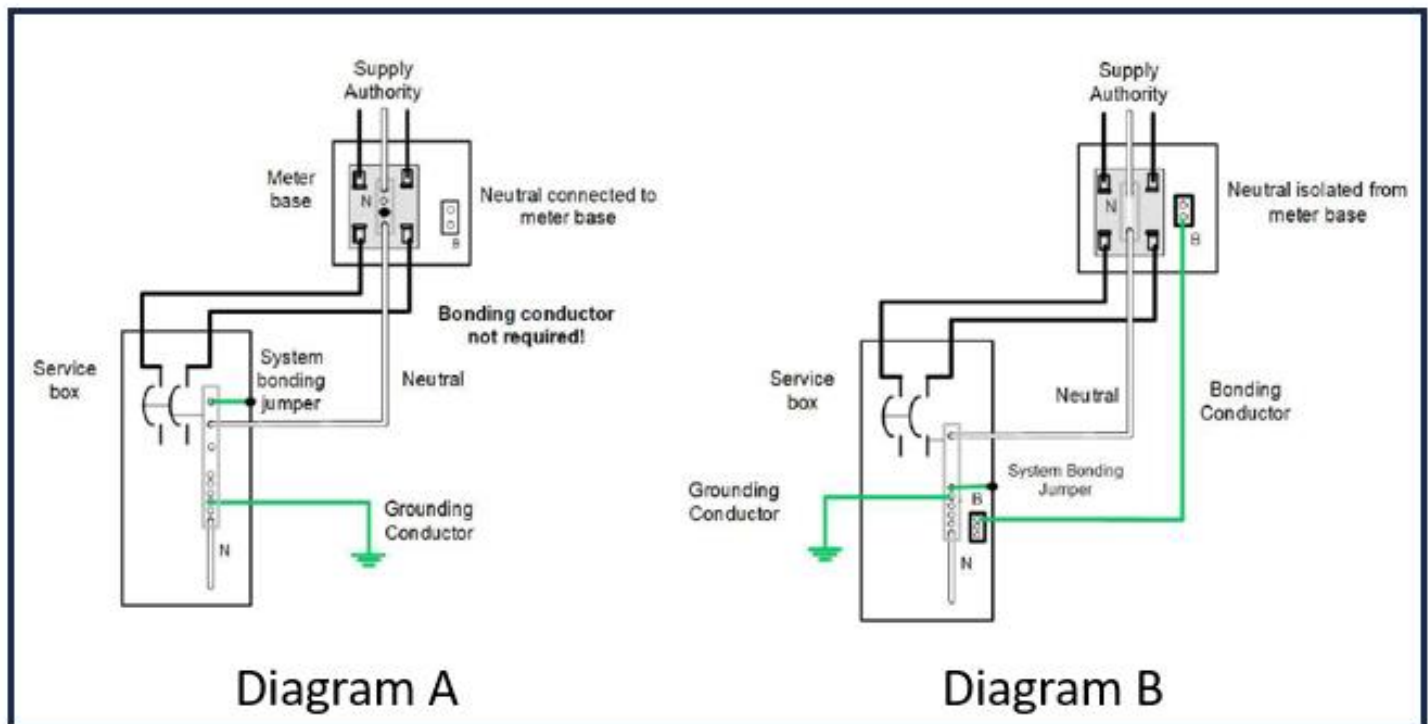
There are three variations of neutral assembly

- Neutral permanently bonded to the enclosure
- Neutral permanently isolated from the enclosure
- Neutral supplied with means to bond or isolate from the enclosure (must be provided with marking on a temporary tag, instruction sheet or equivalent indicating how the bond is to be removed or installed)

### Requirements you need to know

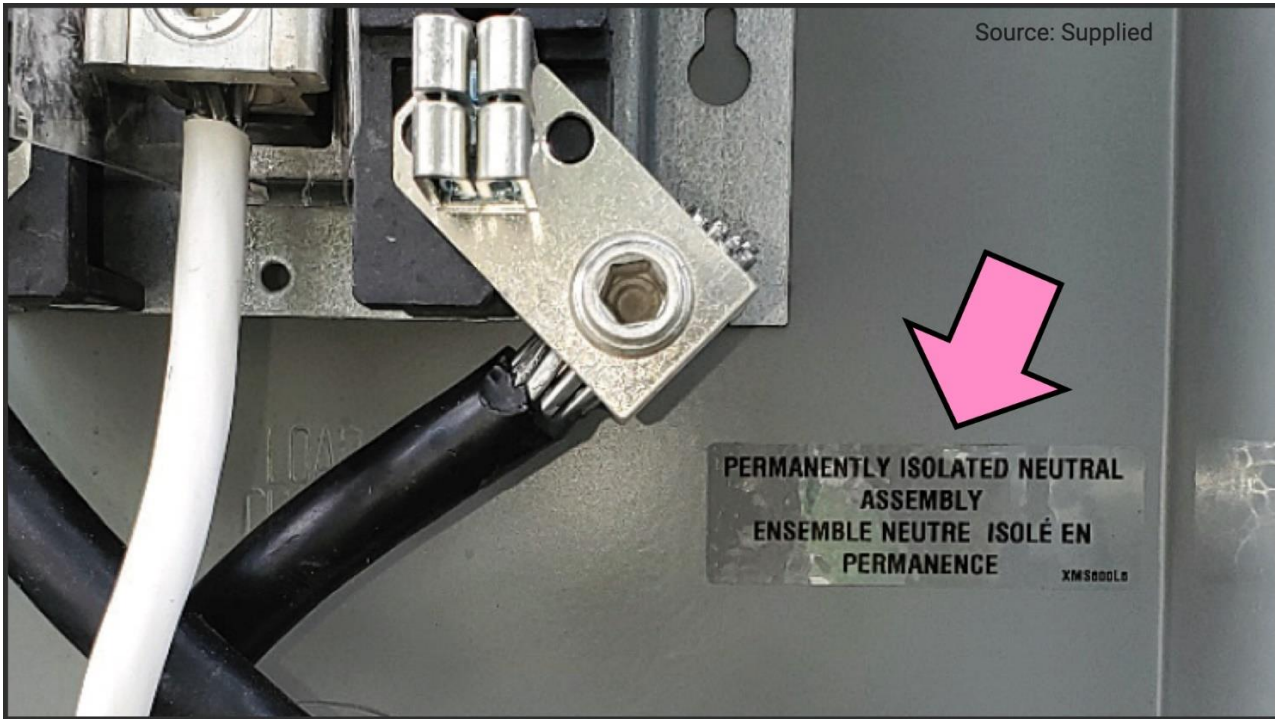
OESC Rule 10-210 requires that a grounding connection to the supply neutral be made in one location only – no other connection to metal parts of electrical equipment is permitted on either the line or load side of where the grounding connection is made.

The type of meter base used needs to be aligned with the location of the grounding connection and in some configurations, a bonding conductor will be required between the meter base and the service box. See Ontario Bulletin 10-15-\* for more details and additional acceptable arrangements.



**Diagram A** – Meter base with permanently bonded neutral assembly – permitted by Bulletin 10-15-\*

**Diagram B** – Meter base with permanently isolated neutral assembly



*Example marking showing neutral assembly configuration*

In all cases, we want to end up with an installation that is correctly grounded and bonded, compliant and safe.