



**CITY OF MANSFIELD**

**BUREAU OF BUILDING AND CODES**

30 NORTH DIAMOND STREET – 3RD FLOOR MANSFIELD, OHIO 44902

Phone (419) 755-9688 Fax (419) 755-9453

[www.ci.mansfield.oh.us](http://www.ci.mansfield.oh.us)

**CHECK LIST FOR RESIDENTIAL ELECTRICAL METER RESETS**

\_\_\_\_\_ Check outside service entrance conductors and meter base.

- a) If conductors or conduits are damaged, frayed or not properly secured they may need replaced.
- b) If meter base is damaged, not properly secured, openings which have not been closed properly it may need replaced.

\_\_\_\_\_ Check for proper sizing of service entrance conductors.

100 amp	#4 copper or #2 aluminum
150 amp	#1 copper or #2/0 aluminum
200 amp	#2/0 copper or #4/0 aluminum

\_\_\_\_\_ Check that all required grounding is in place and properly fastened.

- a.) An eight ft.x five-eighths in. copper ground rod must be installed.
- b.) The water line must be grounded at the point where water line enters the home.
- c.) A ground bonding jumper must be installed around water meter.

\_\_\_\_\_ Grounding conductor sizes.

100 amp service	#8 copper
150 amp service	#6 copper
200 amp service	#4 copper

\_\_\_\_\_ Check that fuse or breaker panel is securely fastened to wall and that all knock outs and openings in panels have been properly closed.

\_\_\_\_\_ Check that each conductor entering panel is protected with an approved connector.

\_\_\_\_\_ Check that all fuses and breakers have been properly installed and sized correctly for the wire sizes.

**Examples (copper wire only)**

#14 wire	15 amp fuse or breaker
#12 wire	20 amp fuse or breaker
#10 wire	30 amp fuse or breaker
#8 wire	40 amp fuse or breaker
#6 wire	60 amp fuse or breaker



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**CHECK LIST FOR RESIDENTIAL ELECTRICAL SERVICE UPGRADES AND NEW SERVICES.**

\_\_\_\_\_ Check for proper sizing of service entrance conductors.

100 amp	#4 copper or #2 aluminum
150 amp	#1 copper or #2/0 aluminum
200 amp	#2/0 copper or #4/0 aluminum

\_\_\_\_\_ Check that all required grounding is in place and properly fastened.

1. An eight ft.x five-eighths in. copper ground rod must be installed.
2. The water line must be grounded at the point where water line enters the home.
3. A ground bonding jumper must be installed around water meter.

Grounding conductor sizes.

100 amp service	#8 copper
150 amp service	#6 copper
200 amp service	#4 copper

\_\_\_\_\_ Check that breaker panel is securely fastened to wall and that all knock outs and openings in panels have been properly closed.

\_\_\_\_\_ Check that each conductor entering panel is protected with an approved connector.

\_\_\_\_\_ Check that all breakers have been properly installed and sized correctly for the wire sizes.

Examples (copper wire only)

#14 wire 15 amp fuse or breaker

#12 wire 20 amp fuse or breaker

#10 wire 30 amp fuse or breaker

#8 wire 40 amp fuse or breaker

#6 wire 60 amp fuse or breaker

\_\_\_\_\_Install Intersystem Bonding Termination.