



MEGA BEAST VOLTAGE READINGS

CAUTION: Always wear approved PPE while operating the Mega Beast

The Mega Beast (MB) allows troubleshooters to apply up to an **80A** load using (4) **20A** switches. Higher loads make troubleshooting easier.



Applying Load: Turn knob either to the left (left conductor) or to the right (right conductor)

Pro Tip: There may be more than one service problem. After checking the crimps and connection points, retest with the Mega Beast

Unit connected to meter base with live service voltage (no load)



WHY MORE AMPS?

Good secondary service shown on the MB meter under varying loads. Knob turned left to test the left conductor only.
**If there is a service problem (ex. loose transformer connection) it will be more apparent with more load*



PARTIALLY OPEN CONDUCTORS

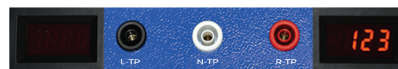
A partial connection causes the readings to appear normal with no load; however, when a load is applied (e.g., the customer turns on a hairdryer), the voltage readings are affected inversely. Inspect the neutral connection and retest the service using the MB.



OPEN CONDUCTORS

Below, open conductors appear as a blank reading on the MB meter with no load applied. A blank left or right meter identifies the open conductor. Check connection points (crimps) and retest under load.

Left Meter: Blank reading
Right Meter: Normal voltage reading
Result: Open left conductor



PARTIALLY OPEN NEUTRALS

Below, one meter drops significantly while the other rises by the same amount. This indicates a partial connection that appears normal with no load, but causes inverse voltage changes when a load is applied (for example, when a hairdryer is turned on). Check the neutral connection and retest the service using the MB.



FULLY OPEN NEUTRALS

Below, when connected to a service with a fully open neutral, the MB shows a voltage drop on both meters with no load. When a load is applied, one meter goes blank while the other increases by about 50 volts.

Test: Turn knob left
Left Meter: Blank reading
Right Meter: Rises significantly, +50V
Result: Fully Open Neutral

Test: Turn knob right
Left Meter: Rises significantly, +50V
Right Meter: Blank reading
Result: Fully Open Neutral

No load applied
Voltage drops on both meters
Result: Fully Open Neutral



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