



SUPER BEAST VOLTAGE READINGS

CAUTION: Always wear approved PPE while operating the Super Beast

***Note:** The Super Beast is designated for 120V only!
Voltage levels may vary by service location. Acceptable voltage drop limits must be set by each utility (many utilities use a 5-7 volt drop as indication of a problem).
Accurate readings may require line-side neutral isolation.



EXAMPLE

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

Left Meter: [124]
Right Meter: [125]



GOOD CONDUCTORS

Test: Flip switch left
Left Meter: <5% drop [121]
Right Meter: No change or $\pm 1V$ [126]
Result: Good Left Conductor



Test: Flip switch right
Left Meter: No change or $\pm 1V$ [125]
Right Meter: <5% drop [122]
Result: Good Right Conductor



PARTIALLY OPEN CONDUCTORS

Test: Flip switch left
Left Meter: Voltage drop $\geq 5-7\%$ [81]
Right Meter: No change or $\pm 1V$ [126]
Result: Partially open left conductor



Test: Flip switch right
Left Meter: No change or $\pm 1V$ [124]
Right Meter: Voltage drop $\geq 5-7\%$ [111]
Result: Partially open right conductor



OPEN CONDUCTORS

Test: Flip switch left
Left Meter: Blank reading
Right Meter: $\pm 3V$ of prior readings [125]
Result: Open left conductor



Test: Flip switch right
Left Meter: $\pm 3V$ of prior readings [121]
Right Meter: Blank reading
Result: Open right conductor



PARTIALLY OPEN NEUTRALS

Test: Flip switch left
Left Meter: Drops significantly, -10V [81]
Right Meter: Rises significantly, +10V [148]
Result: Partially open left neutral



Test: Flip switch right
Left Meter: Rises significantly, +10V [148]
Right Meter: Drops significantly, -10V [83]
Result: Partially open right neutral



FULLY OPEN NEUTRALS

Test: Flip switch left
Left Meter: Blank reading
Right Meter: Rises significantly, +50V [214]
Result: Fully open neutral



Test: Flip switch right
Left Meter: Rises significantly, +50V [213]
Right Meter: Blank reading
Result: Fully open neutral



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