

# Super Beast Voltage Readings

Service voltages and fluctuations may differ with each service location. Utilities are responsible for setting acceptable voltage drop standards. Accurate results may require neutral cable isolation (line side). For use on 120V service only! Most utilities use a 5-7 volt drop as indication as an indication of trouble. Each utility should set its own standard.

**Always wear safety protection while operating the Super Beast. Always follow your company's safety standards.**

## GOOD CONDUCTORS



**Test: Flip Switch Left**  
 Left Meter: Less than 5% drop = good conductor  
 Right Meter: Remains the same/  $\pm 1V$   
 Reading: Good Left Conductor



**Test: Flip Switch Right**  
 Left Meter: Remains the same/  $\pm 1V$   
 Right Meter: Less than 5% drop = good conductor  
 Reading: Good Right Conductor



**Ex. UNIT CONNECTED TO METER BASE  
 SHOWING LIVE SERVICE VOLTAGE; NO LOAD**

## OPEN CONDUCTORS



**Test: Flip Switch Left**  
 Left Meter: Blank Reading, Nothing Shown  
 Right Meter: Similar Readings as before,  $\pm 3V$   
 Reading: Open Left Conductor



**Test: Flip Switch Right**  
 Left Meter: Similar Readings as before,  $\pm 3V$   
 Right Meter: Blank Reading, Nothing Shown  
 Reading: Open Right Conductor

## PARTIALLY OPEN CONDUCTORS



**Test: Flip Switch Left**  
 Left Meter: 5-7% or Greater Voltage Drop  
 Right Meter: Remains the same/  $\pm 1V$   
 Reading: Partially Open Left Conductor



**Test: Flip Switch Right**  
 Left Meter: Remains the same/  $\pm 1V$   
 Right Meter: 5-7% or Greater Voltage Drop  
 Reading: Partially Open Right Conductor

## FULLY OPEN NEUTRALS



**Test: Flip Switch Left**  
 Left Meter: Blank Reading, Nothing Shown  
 Right Meter: Increases Significantly, +50V  
 Reading: Fully Open Neutral



**Test: Flip Switch Right**  
 Left Meter: Increases Significantly, +50V  
 Right Meter: Blank Reading, Nothing Shown  
 Reading: Fully Open Neutral

## PARTIALLY OPEN NEUTRALS



**Test: Flip Switch Left**  
 Left Meter: Drops significantly, +10V  
 Right Meter: Increases significantly, +10V  
 Reading: Partially Open Left Neutral



**Test: Flip Switch Right**  
 Left Meter: Increases significantly, +10V  
 Right Meter: Drops significantly, +10V  
 Reading: Partially Open Right Neutral