

Mobile Electric Power Solutions

2623 National Circle, Garland TX 75041

(972)864-1015 www.meps.com

GENERATOR OHMS TEST

- Equipment needed: Digital Multimeter that can measure resistance.
- Measurements done with generator / engine NOT turning.
- At the ACU unplug the 8 pin connector with cable coming from generator.
- Generator should remain plugged into the other end of the cable.
- Measurements will be done at the ACU on the plug that is attached to the cable.
- Measure resistance from Red pin to Black pin.
 - o For **120 volt system**, measurement should be about **35 ohms**
 - o For **208v/230v/240v systems**, measurements should be about **140 ohms**
 - o **Change rotational position of generator ("bump engine") until lowest reading is achieved.**
 - o **Record ohms measurement below.** (ACU cable)
- Measure resistance from Blue pin to Yellow pin, Blue pin to Orange pin and Orange pin to Yellow pin.
 - o **All 3** measurements should be **2 ohms or less.**
 - o **All 3** should be of **equal value +/- 0.1 ohm.**
 - o **Record each of the three measurements below.** (ACU cable)
- Measure resistance from Gray pin to Red pin and Gray pin to Blue pin.
 - o Both measurements should be **open (OL) or in the Meg ohms.**
 - o **Record both ohms measurements below.** (ACU cable)

Any "wrong" readings should be repeated at the plug on the short cable attached to the generator

- o Unplug the short cable attached to the generator from the extension cable going to the ACU.
- o Measurements will be made on the plug attached to the short cable.
- o **Record ohms measurements below.** (Generator cable)

	Measurements	
	ACU cable	Generator cable
Red pin to Black pin	_____ ohms	_____
Blue pin to Yellow pin	_____ ohms	_____
Blue pin to Orange pin	_____ ohms	_____
Orange pin to Yellow Pin	_____ ohms	_____
Red pin to Gray pin	_____ ohms	_____
Blue pin to Gray pin	_____ ohms	_____

Call MEPS Service Department with ohms readings.

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