

Troubleshooting Guide for ER14-50

Record Aircraft Bus Voltage: _____

NOTE:

- Perform all tests with:
1. ALTERNATOR SWITCH on
 2. Master Switch on
 3. Engine off
 4. Magnetos turned off or grounded

With Alternator field plug properly connected voltage from Alternator field through point 'D' should be 1-1.5 volts lower than Aircraft Bus if the system is operating correctly.

With Alternator field plug disconnected readings from Alternator field wire through 'D' should be Bus Voltage if properly wired.

For your specific installation instructions visit:
<http://www.plane-power.com/installation%20instructions.htm>

Check and record voltage of Aircraft Bus

Yes -> Check for Bus voltage at Alternator field

No

Check for Bus voltage at Regulator FLD

Yes

No

Replace wire or connectors from Regulator FLD to Alternator field

Check for Bus voltage at Regulator ENABLE

Yes

No

Check for Bus voltage at point A

Yes

No

Replace wire or connectors from Regulator ENABLE to point A

Check for Bus voltage at point B

Yes

No

Replace ALTERNATOR SWITCH

Check for Bus voltage at point C

Yes

No

Replace wire or connectors from point B to point C

Check for Bus voltage at point D

Yes

No

Defective or tripped circuit breaker. Replace if defective

Defective wire or connection to Bus

Yes -> Check for Bus voltage at Alternator B+ OUTPUT

No

Check for Bus voltage at point E

Yes

No

Replace wire or connection

Check for Bus voltage at point F

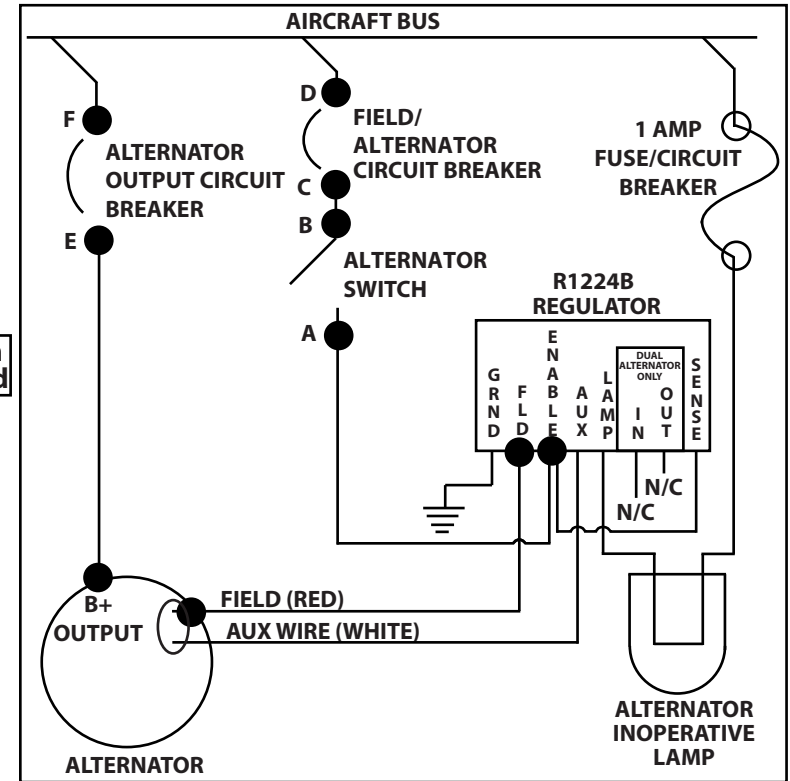
Yes

No

Defective or tripped circuit breaker. Replace if defective

Replace wire or connection to Bus

Call or E-mail Plane-Power for further instructions
 1-877-934-5700 or info@plane-power.com



Is the R1224B Regulator wired as the diagram shows

No

Wire regulator as per the wiring diagram

Yes -> Is the ground wire of the regulator properly connected to a good airframe ground

No

Correct ground wire issue

Yes

Are the 2 voltage jumpers inside the regulator properly set (refer to regulator installation instructions)

No

Correct 2 voltage jumper locations

Yes

Is the adjustment pot set for proper voltage

No

Set the adjustment pot for proper voltage
 Refer to regulator Installation Instructions and Aircraft Maintenance Manual for proper voltage

Yes