Troubleshooting Guide for all Single Engine Internally Regulated Alternators

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 equal to the 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.

Check and record voltage of Aircraft Bus

- YES
  - Check for Bus voltage at Alternator field
    - NO
      - Check for Bus voltage at point A
        - NO
          - Replace wire or connectors from Regulator ENABLE to point A
        - YES
          - Replace ALTERNATOR SWITCH
    - YES
      - Replace wire or connectors from point B to point C
  - NO
    - Check for Bus voltage at point B
      - NO
        - Detective or tripped circuit breaker. Replace if defective
      - YES
        - Check for Bus voltage at point C
          - NO
            - Defective wire or connection to Bus
          - YES
            - Replace wire or connection to Bus
    - YES
      - Check for Bus voltage at point C
        - NO
          - Replace wire or connection to Bus
      - YES
        - Check for Bus voltage at point D
          - NO
            - Replace wire or connection to Bus
          - YES
            - Replace wire or connection to Bus
    - NO
      - Check for Bus voltage at point D
        - NO
          - Replace wire or connection to Bus

Call or email TECH SUPPORT for further instructions

TECH SUPPORT
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