DESCRIPTION AND OPERATION (Continued)

Generator Circuit

Circuit Description

Battery Positive Voltage (B+) Output

The generator output is supplied through the Battery Positive Voltage (B+) output connection to the battery and electrical system.

'l' Circuit

The 'I' circuit, or ignition circuit, is used to turn on the voltage regulator. This circuit is powered up with the ignition key in the RUN position. This circuit is also used to turn the indicator on if there is a fault in the charging system operation or associated wiring circuits.

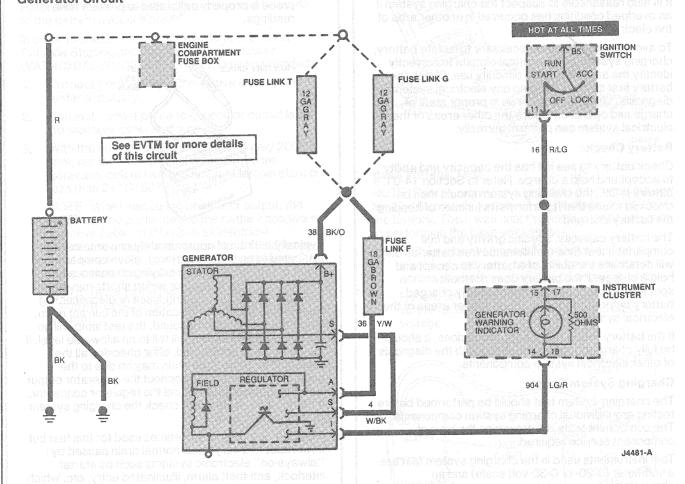
Generator Circuit

'A' Circuit

The 'A' circuit, or battery sense circuit, is used to sense the battery voltage. This voltage is used by the regulator to determine the generator output. This circuit is also used to supply power to the generator field coil. This circuit is connected back to the load distribution point and is a protected circuit.

'S' Circuit

The 'S' circuit, or stator circuit, is used to feedback a voltage signal from the generator to the regulator. This voltage, typically 1/2 battery voltage, is used by the regulator to turn off the indicator.



DIAGNOSIS AND TESTING

Before performing charging system tests on the vehicle, note conditions such as: slow cranking, discharged battery, generator/battery charge indicator stays on with engine running or generator/battery charge indicator does not light with ignition switch in RUN and engine not running. This information will aid in isolating the part of the system causing the symptom.

Visual Inspection

Preliminary checks to the charging system should be made regardless of the inoperable condition. These checks include:

 Check battery posts and cable terminals for clean and tight connections. Clean the posts and the cables to ensure good electrical contact.