

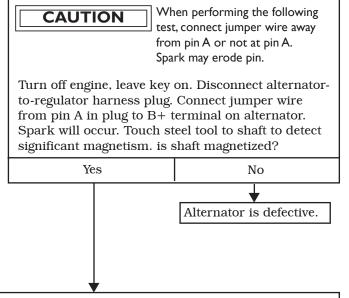
N1224-1 Alternator w/ N3221 Regulator

Quick Troubleshooting

Basic Troubleshooting

- Inspect charging system components
 Check connections at ground cables, positive cables, and regulator harness. Repair or replace any damaged component before troubleshooting.
- 2. **Inspect connections of vehicle batteries** Connections must be clean and tight.
- 3. Determine battery type, voltage, and state of charge

Batteries must be all the same type for system operation. If batteries are discharged, recharge or replace batteries as necessary. Electrical system cannot be properly tested unless batteries are charged 95% or higher.



Remove jumper wire. Reconnect harness to regulator and make sure connection is tight. Operate vehicle. Observe charge voltage.

CAUTION

If charge voltage is above 33 volts, immediately shut down system. Electrical system damage may occur if charging system is allowed to operate at excessive voltage.

- > If voltage is at or below regulator setpoint, let charging system operate for several minutes to normalize operating temperature.
- > If voltage continues to be above or below setpoint, remove and replace regulator. Retest charging system.

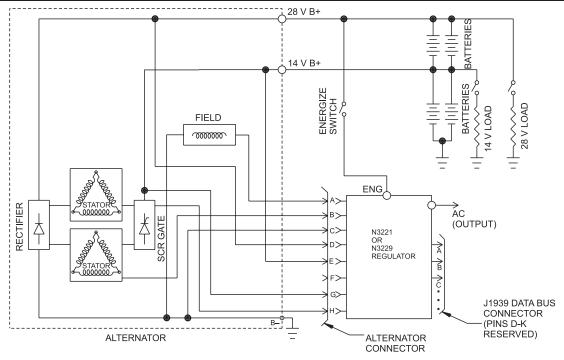


Figure I — N1224 Wiring Diagram

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