

1997 Dodge BR - RAM PICKUP

Submodel: | Engine Type: L6 | Liters: 5.9L

Fuel Delivery: | Fuel: Diesel



teistarterrelayfuelshutdeivnrelayrd/vtshutdownrlyfuelshutdeivnsiiiileneiidfusedignsielu2310808



fuelshutdownfuelshutdownsolenoidconnectorfuelshutdownsolenoidplunger2360502



NTTESTNS-15ACHECKINGTHEFUELSHUTDOWNRELAYANDSOLENOID(DIESEL)OPerformTESTNS-SELBeforeProceedingSTAOBSERVETHERSTARTTESTEXTENSIONOFTHENS-15A.FUEL SHUTDOWNSOLENOID PLUNGER.FIG. 1TESTSNOTE:DO NOTTURNTHEIGNITION OFFAFTERCRANKING THECRANKTHEENGINE ENGINE FOR3SECONDSIN THENEXT STEP.INSPECTTHEFUELSHUTDOWN SOLENOIDIS THEPLUNGERYESSEESERVICE MANUALPLUNGER.RETRACTED?FORADDITIONALDIAGNOSTICS.FIG. 1NOMANUALLY RETRACTDOES THEPLUNGERTHEFUEL SHUTDOWNREMAIN RETRACTEDYESTEST NS-15ASOLENOID PLUNGERWHEN IT IS NOCONTINUEDONANDTHEN RELEASE.LONGER MANUALLYTHENEXT PAGE.HELD IN?NODISCONNECT THEFUELWITHAVOLTMETER,SHUTDOWN SOLENOID.**MEASURETHEFUSEDIS THEVOLTAGE NO REPAIR OPEN FUSEDIGNITION SWITCHABOVE10.0 VOLTS?IGNITION.SWITCHOUTPUT CIRCUIT.OUTPUT CIRCUIT.**SEEGENERALINFO 4.0FIG. 2YESWITH AN OHMMETER,MEASURETHEFUELIS THERESISTANCE NO REPAIR OPEN GROUNDTURN IGNITION OFF.SHUTDOWN SOLENOIDBELOW5.0OHMS?CIRCUIT.*GROUND CIRCUIT.YESREPLACEFUELSHUTDOWNSOLENOID.**PerformVerificationTESTVER-1A.**Checkconnectors-Clean/repairasnecessary.803





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NTTESTNS-15A CONTINUED-CHECKING THE FUEL SHUTDOWN RELAY AND SOLENOID (DIESEL) O START TEST TEST NS-15A DISCONNECT THE FUEL CONTINUED FROM SHUTDOWN SOLENOID TO THE PREVIOUS ELECTRICAL SPAGE CONNECTOR.**FIG. 1 WITH A VOLT METER, MEASURE THE FUEL WHILE CRANKING THE WASTHE VOLTAGE NO CONTINUE TEST SHUTDOWN RELAY ENGINE ABOVE 10.0 VOLTS? NS-15A ON THE OUTPUT CKT.NEXT PAGE.FIG. 2 YES WITH AN OHM METER, MEASURE THE FUEL IS THERE RESISTANCE NO REPAIR OPEN GROUND TURN IGNITION OFF.SHUTDOWN SOLENOID BELOW 5.0 OHMS? CIRCUIT* GROUND CIRCUIT.FIG. 2 YES REPLACE FUEL SHUTDOWN SOLENOID.**Perform Verification TEST VER-1A.**Check connectors-Clean/repair as necessary.805

fuel shutdown relay heater relay 2310503



fuelshutdownsdenidconnectorcavcolorfunctionlg/bkfusedignitionswithchoutputfuelshutdownrelayoutputbk/Inground8daa4c3e



NTTESTNS-15A CONTINUED-CHECKING THE FUEL SHUTDOWN RELAY AND SOLENOID (DIESEL) O STATE TEST NS-15A IGNITION OFF. CONTINUED FROM THE PREVIOUS DISCONNECT THE FUEL PAGE. SHUTDOWN RELAY. **FIG. 1 TESTS TEST THE FUEL REPAIR THE OPEN USE AN OHMMETER IN SHUTDOWN RELAYS. THE RESISTANCE OF FUEL SHUTDOWN THE FOLLOWING OUTPUT CKT FOR BELOW 5.0 OHMS? RELAY OUTPUTS TEST RESISTANCE CIRCUIT. FIG. 2 YES WITH A VOLT METER. MEASURE THE FUSED IS THE VOLTAGE NO REPAIR OPEN FUSED B(+) IN SHUTDOWN ABOVE 10.0 VOLTS? B(+). RELAY CONNECTOR. FIG. 2 YES WITH AN OHMMETER. MEASURE THE SHUTDOWN IS THE RESISTANCE YES REPAIR OPEN RELAY RELAY GROUND CIRCUIT ABOVE 5.0 OHMS? GROUND CIRCUIT. IN RELAY CONNECTOR. FIG. 2 NO DISCONNECT THE USING AN OHMMETER STARTER RELAY. **MEASURE THE RESISTANCE OF THE STARTER RELAY FIG. 3 OUTPUT CIRCUIT. FROM THE FUEL SHUTDOWN RELAY TO IS THE RESISTANCE YES REPAIR OPEN THE STARTER RELAY ABOVE 5.0 OHMS? STARTER RELAY OUTPUT CIRCUIT. FIG. 3 NO REPLACE FUEL SHUTDOWN RELAY. **Perform Verification TEST VER-1A. **Check connectors-Clean/repair as necessary. 807

7.1.5.16 NS-15A CHECKING THE FUEL SHUTDOWN RELAY AND SOLENOID (DIESEL)