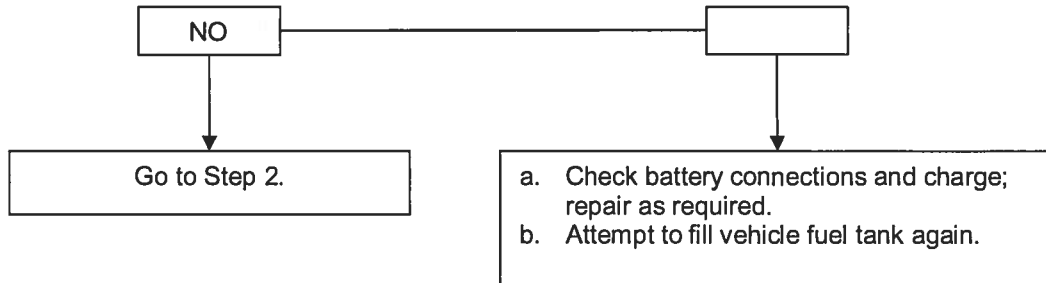


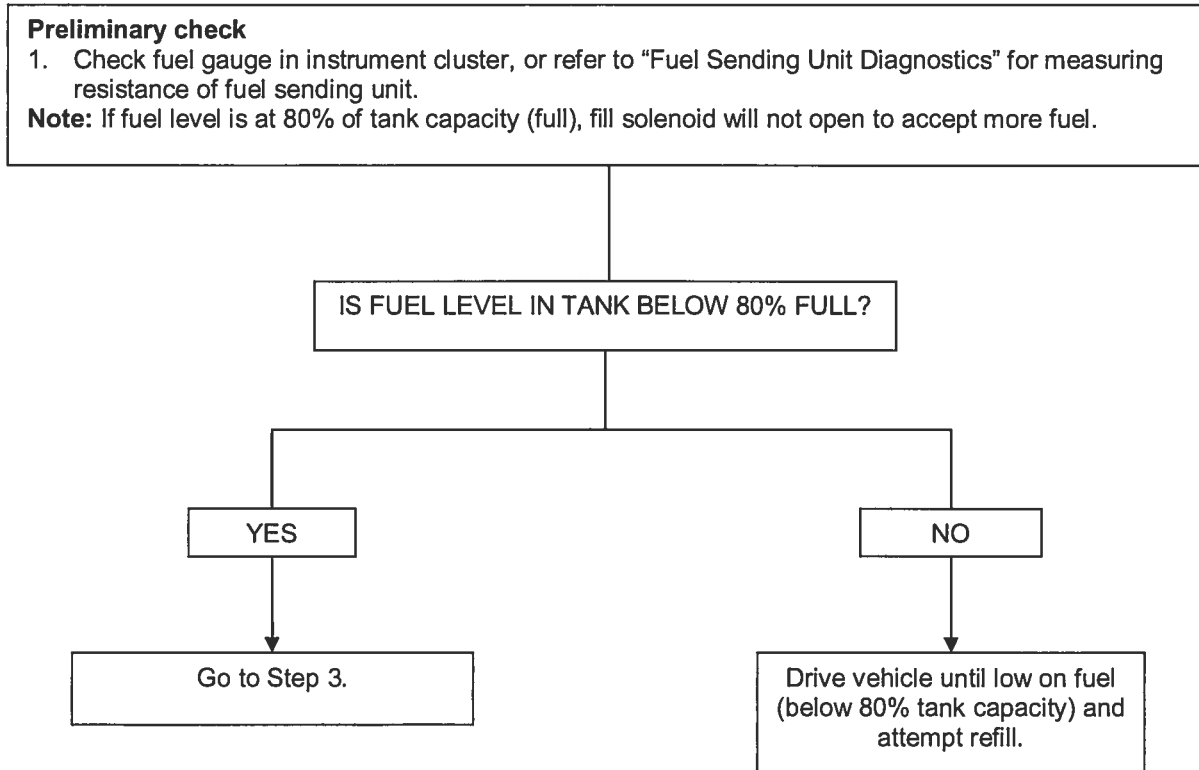
Diagnostic Flow Charts

No Fill Condition

1. VERIFY VEHICLE BATTERY IS FULLY CHARGED AND CONNECTED.



2. VERIFY THAT VEHICLE FUEL TANK IS ACTUALLY LOW ON FUEL AND NOT ALREADY FULL.



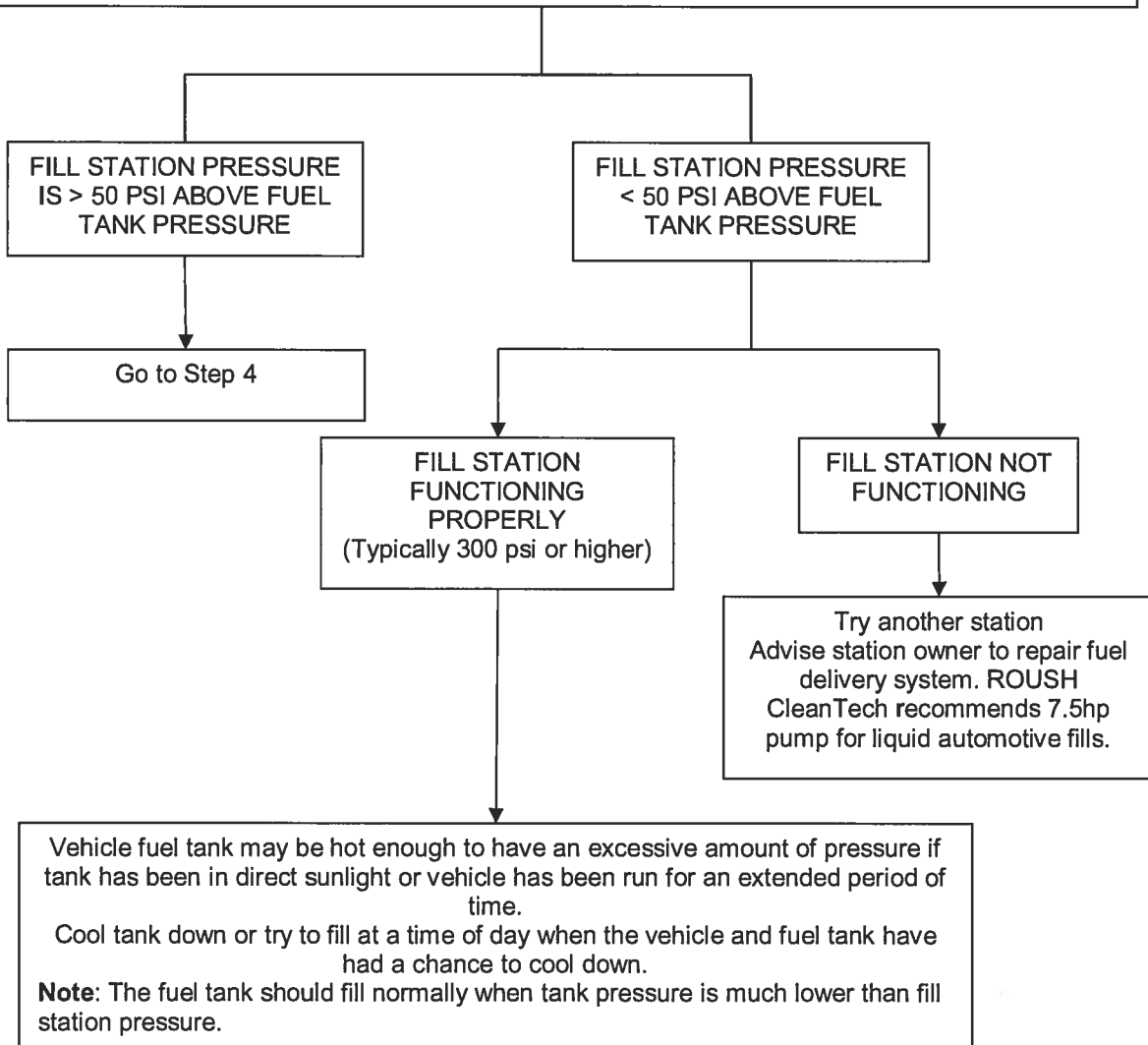
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3. VERIFY THAT STATION FILL HOSE IS PROPERLY CONNECTED TO VEHICLE AND STATION IS OPERATING.

Procedure

1. Connect pressure gauge (350 psi min) to bleeder valve on fuel tank.
2. Open bleeder valve and record gauge pressure reading.
3. Close bleeder valve.
4. Using propane safe gloves and safety glasses, carefully disconnect pressure gauge from bleeder valve making sure to relieve pressure in gauge hose very slowly.
5. Using the Fuel Fill Pressure Tester or equivalent, measure fill station pressure.
6. Compare fuel tank pressure to fill station pressure.

Note: Fill station pressure must be at least 50 psi greater than the vehicle fuel tank pressure or the tank will not fill.

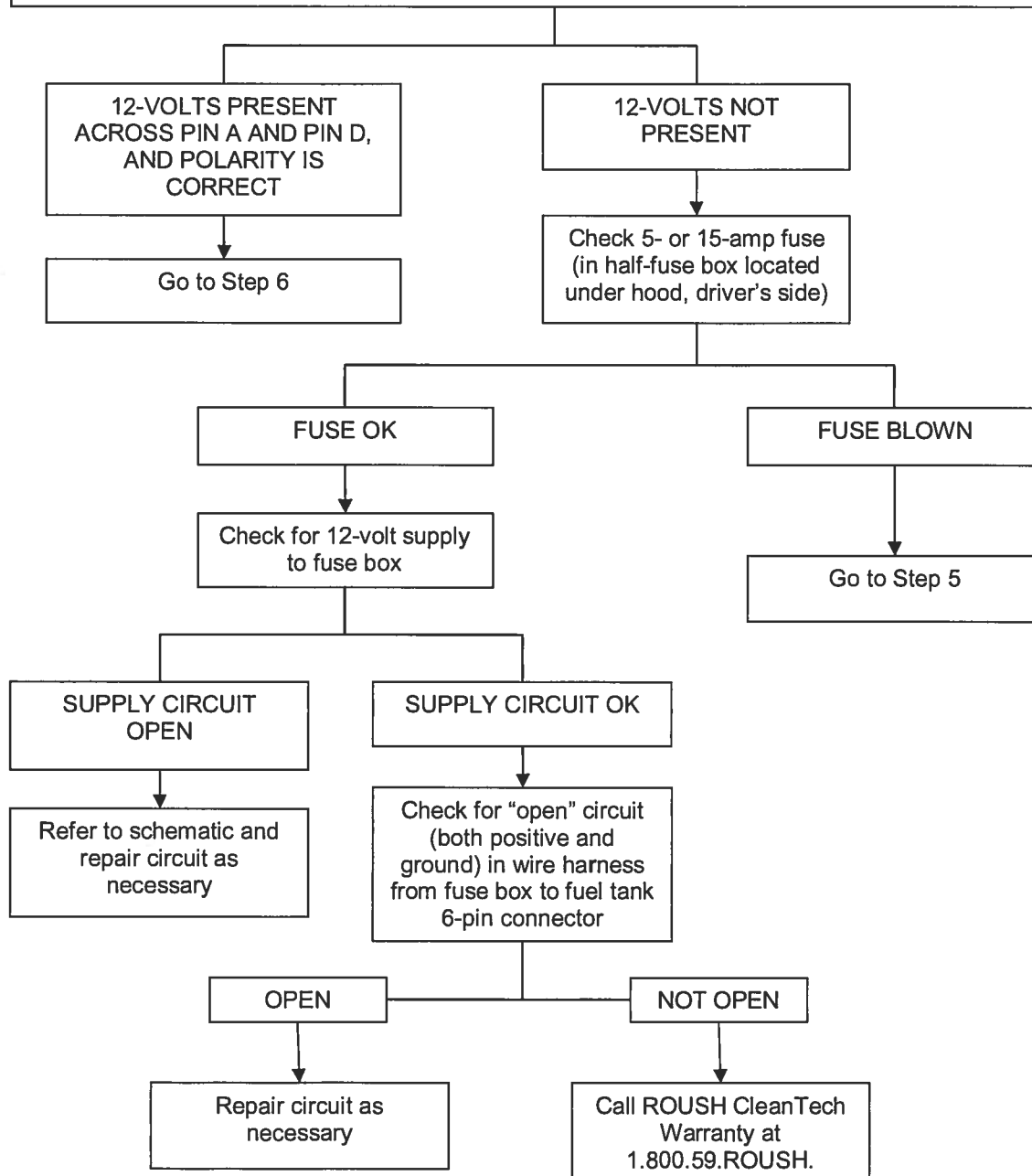


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4. VERIFY THAT THERE IS 12-VOLT BATTERY POWER TO FUEL TANK FILL CIRCUIT AND POLARITY IS CORRECT.

Procedure

1. Turn the ignition switch to the off position if not already done.
2. Disconnect the 6-wire fuel tank harness connector (located on wire loom from fuel tank) from the vehicle harness.
3. Connect a voltmeter positive lead from the Blue wire (Pin A positive), and the negative lead to the plain Black wire (Pin D negative) on the vehicle side of the 6-wire connector or utilize the Fuel Tank Breakout Box (see guide provided with the breakout box).
4. Check the voltmeter reading. The voltmeter should indicate battery voltage (12 volts) and also indicate proper polarity.

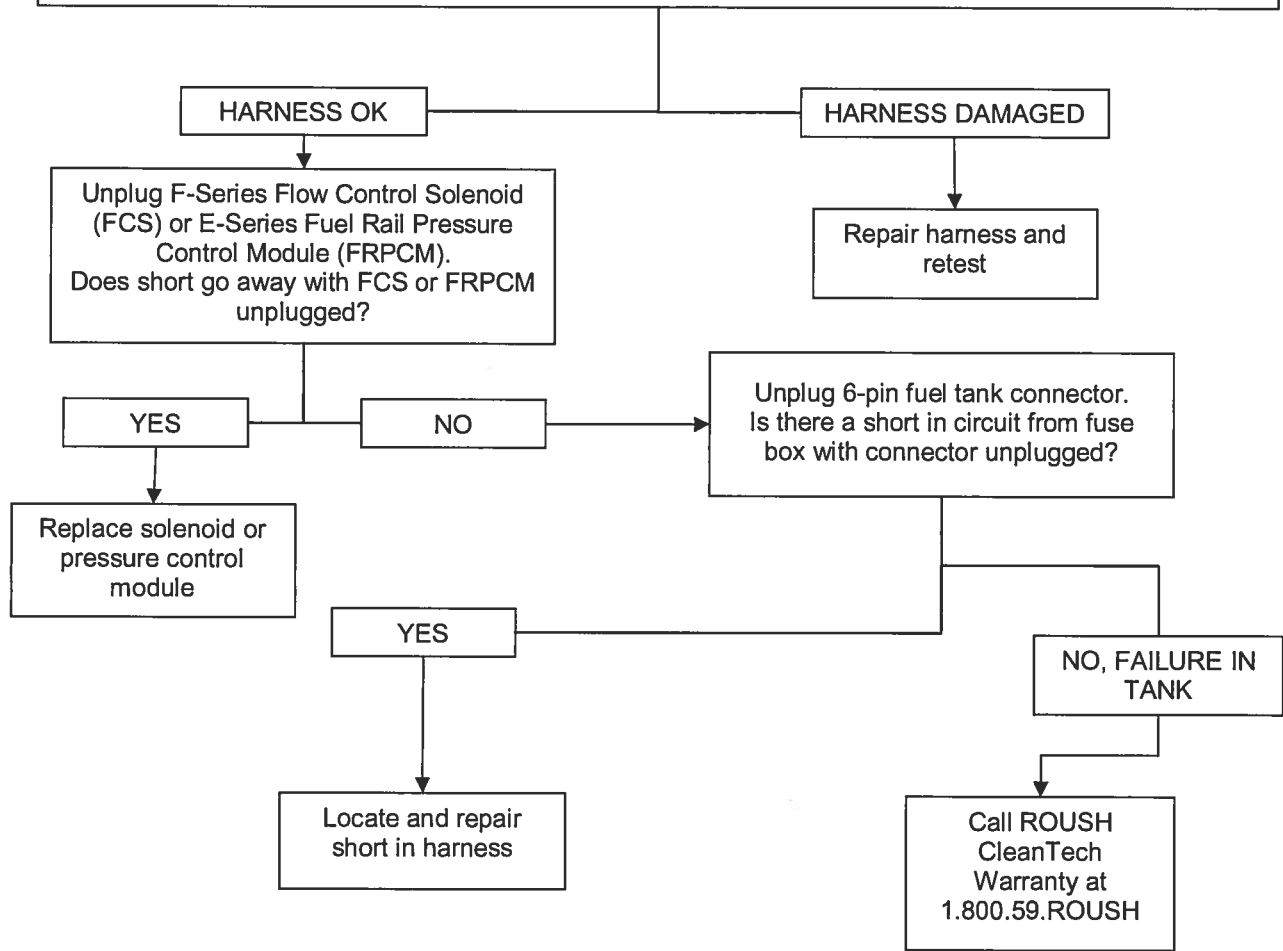


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5. CHECK FOR SHORT CIRCUIT IN 12-VOLT SUPPLY TO FUSE BOX.

Procedure

1. Verify ROUSH wire harness isn't damaged.
2. Pin out to make sure short isn't in the harness.

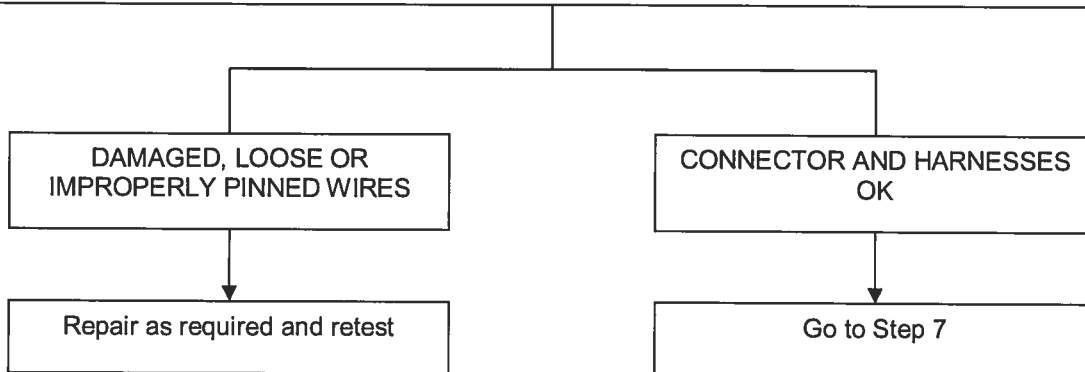


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6. VERIFY THAT THE 6-PIN FUEL TANK CONNECTOR AND HARNESES TO THE FUEL TANK ARE UNDAMAGED AND OK.

Visual Inspection

1. Are terminals in the tank side of the 6-pin connector straight and properly positioned?
2. Are wires between connector and fuel tank undamaged and in good condition?
3. Do wire color codes match on both vehicle and tank side of all connectors from the fuse box to the fuel tank?
4. Check that all wire crimps are made properly and that there are no loose connections.



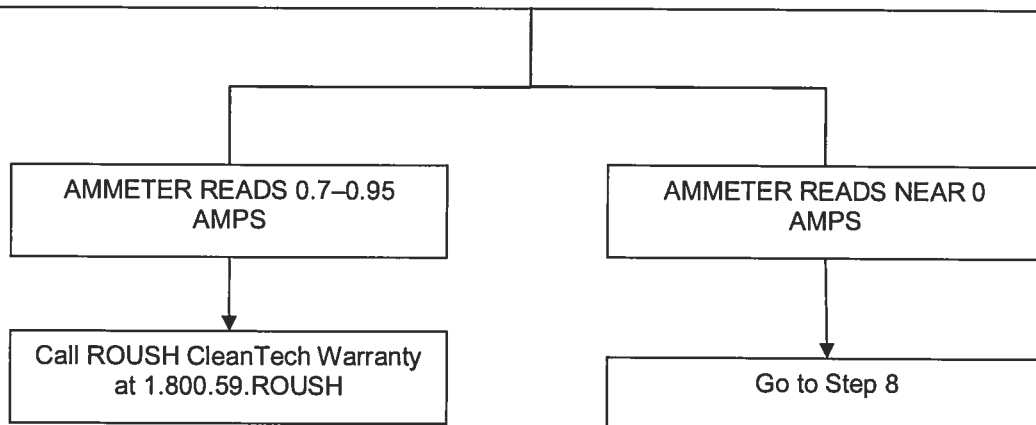
7. RECONNECT 6-PIN CONNECTOR AND MEASURE CURRENT TO TANK FILL CIRCUIT.

Refer to wire harness drawing in Section 9, SCHEMATICS, specific to the vehicle you are diagnosing. Locate the 5-amp (E-Series) or 15-amp (F-Series) fuse for the "fill" circuit.

Procedure

1. Remove 5-amp or 15-amp fuse from mini-fuse holder in half fuse box under hood, driver's side.
2. Connect an ammeter across terminals in fuse holder.
3. Attempt to fill tank while watching ammeter (Fill circuit will only activate when pump pressure is supplied to the filler).

Note: Ammeter should read 0.7–0.95 amps if fuel fill circuit is activated. If ammeter reads near 0 amps, the fuel fill circuit is not activated and tank will not fill.



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8. CHECK FOR RESTRICTIONS IN THE FUEL FILL SYSTEM.

Procedure

1. Check for kinks or restrictions in the tank blue fill hose.
2. Verify that the fuel filter is not plugged.
3. Verify that the Fill Valve is functioning properly.

Note: If any of the above problem conditions exist, the fuel fill switch will not close and will prevent the tank from filling.

