

## CHART 2.6 V8 PCM

### 1-2 SHIFT SOLENOID "A" CHECK

#### Circuit Description:

The 1-2 shift solenoid "A" is attached to the valve body and is a normally open exhaust valve. The PCM activates the solenoid by earthing it through an internal quad driver. The 1-2 shift solenoid "A" is "ON" in 1st and 4th gears, but "OFF" in 2nd and 3rd gears. When "ON," the 1-2 shift solenoid "A" redirects fluid to act on the shift valves.

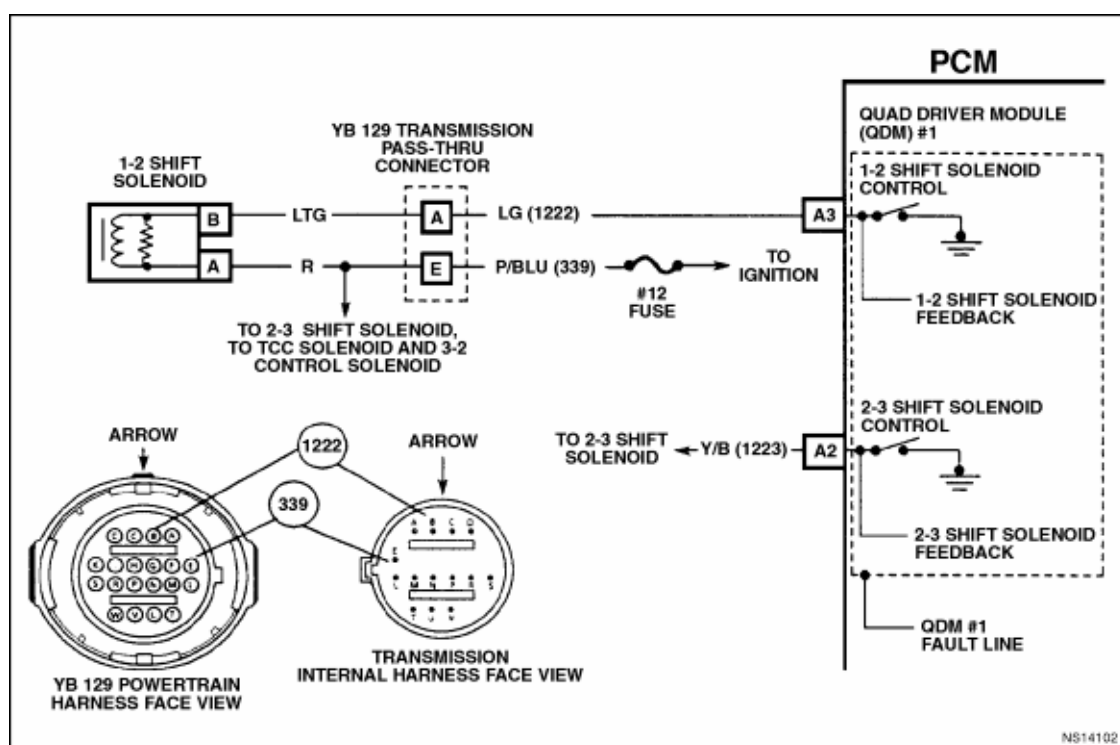
**Test Description:** Number(s) below refer to step number(s) on the diagnostic chart.

- This procedure checks 1-2 shift solenoid and the transmission internal wiring harness for shorts or an open.

#### Diagnostic Aids:

Check all connections especially those at the transmission pass-thru connector.

Check for the 1-2 shift solenoid "A" being mechanically stuck



GEAR	1-2 SHIFT SOLENOID "A"	2-3 SHIFT SOLENOID "B"
PARK, REVERSE, NEUTRAL	"ON"	"ON"
FIRST	"ON"	"ON"
SECOND	"OFF"	"ON"
THIRD	"OFF"	"OFF"
FOURTH	"ON"	"OFF"

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STEP	ACTION	VALUE	YES	NO
1.	Was the "On-Board Diagnostic" (OBD) System Check performed?		Go to Step 2.	Go to <a href="#">OBD System Check</a> , refer Section <a href="#">6C2-2A</a> in this Volume.
2.	1. Install TECH 1 "Scan" tool. 2. Record then clear DTCs. 3. Ignition "ON," Engine "OFF." 4. Using TECH 1 "Scan" tool select: F2 TRANSMISSION F4 MISC TEST F0 SHIFT SOL A 5. Enable shift sol A "ON" and "OFF" three times, by pressing the UP and DOWN arrow keys, and listen to the rear of transmission oil pan for a clicking sound. 6. Does solenoid "click" when commanded from "OFF" to "ON"?		No Problem Found. 1-2 Shift Solenoid "A" electrically OK. Refer To "Diagnostic Aids" on Facing Page	Go to Step 3.
3.	1. Ignition "OFF." 2. Raise vehicle 3. Disconnect transmission pass-thru connector. 4. Connect jumper harness J39775 to transmission 5. Using an ohmmeter, measure resistance across terminals "A" and "E" at the free end of jumper harness. 6. Is the resistance between the specified value?	20 - 40 ohms	No problem found 1-2 shift solenoid electrically OK. Refer To "Diagnostic Aids" on Facing Page.	Go to Step 5
4.	Repair faulty connection or Open in transmission internal harness or Faulty 1-2 shift solenoid "A" Is repair complete?		Verify Repair	
5.	Is the resistance measured in step 3 less than the specified value in this step?	20 ohms	Go to Step 6	Go to Step 4
6.	Repair short in transmission internal harness or Faulty 1-2 shift solenoid "A". Is repair complete?		Verify Repair	