

1991 - 1992 Corvette: Service Bulletin: Fuel Pump Driveability Issue - Diagnostic Information

Subject: FUEL PUMP DRIVEABILITY ISSUE DIAGNOSTIC INFORMATION

Model and Year:

1991-92 CAMARO, CAVALIER, CORSICA, BERETTA, LUMINA AND CORVETTE

1992 C1, K1, L/M AND S/T TRUCKS

1992 LUMINA APV

Source: Chevrolet Service Bulletin

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ENGINE APPLICATIONS: SUBJECT:

Car VINs A, B, D, F, H, J, L, N, P, Fuel Pump Noise; Engine Hesitation, T, X,1, 3, 4, 8 Sag, Loss of Power; or No Start Truck VINs E, H, K, L, W, Z (Fuel Pump or Contaminated Fuel supply) VEHICLE/TRUCK

APPLICATIONS:

1991-92 Model Year F, J, L, W, Y Cars 1992 Model Year C, K, L, M, S, T Trucks 1992 Model Year U Van

CONDITION:

Customer may comment of fuel pump noise/whine and/or cold start stall; engine hesitation, sag, loss of power; or check engine light with codes 32 or 44. Condition(s) may be intermittent, but would typically be experienced in the first 5 minutes of engine/vehicle operation.

CAUSE:

Possible fuel starvation.

The following matrix is provided to help during diagnosis activities.

Diagnostic Aids:

1. Oxygen sensor reading biased toward lean when the engine is under load.
2. Fuel pressure drops or does not increase by at least 5 psi when throttle moves from idle to part throttle.
3. Fuel integrator values steadily increasing under load.
4. Intermittent condition temporarily eased when accelerator pedal is released. Condition returns when accelerator pedal is reapplied.
5. Complete loss of fuel pressure.

CORRECTION:

Use Section 6E3 of the appropriate service manual to diagnose possible fuel system related problems. The vehicle may need to be operated under a load while monitoring fuel pressure to detect the problem.

IMPORTANT: MAKE CERTAIN THE FUEL SYSTEM IS PERFORMING TO SPECIFICATIONS BEFORE OTHER ENGINE CONTROL SYSTEM COMPONENTS ARE SERVICED.

PROCEDURE:

Follow procedures identified in the appropriate service manual or: for 1992 "J" vehicles specifically, see Dealer Service Bulletin No. 92-176-6C, dated April 1992; for electrical intermittents, see Dealer Service Bulletin No. 92-05-8A, 86-56 and 88-101-8A as well as Section 8A of the service manual

and instruction in required tool J-38125 usage.

| SYMPTOM | NO START | LOW PRES-SURE | INTER. ENGINE POWER LOSS | WHINING NOISE* | WHERE MOST COMMON | PUMP TYPE | DIAG-NOSTIC AIDS |
|--|----------|---------------|--------------------------|----------------|---------------------------|------------------------------------|------------------|
| POTENTIAL CAUSE | | | | | | | |
| Tight bearing in fuel pump | | √ | √ | | 91 3.4L W 92 E 92 N | Roller Vane Modular Roller Vane | 1, 2, 4 |
| Water in Fuel | √ | | √ | | 92 N | Modular Roller Vane | 1, 3 |
| Contamination in Tank | √ | √ | | √ | 92 C/H/W | ALL | 1, 2, 3 |
| Incomplete Assembly of Pump to Module | | √ | | | 92 N | Modular Roller Vane | 1, 2, 3 |
| Intermittent Contact of Electrical Terminals to Fuel Pump | √ | | √ | | 92 N | Modular Roller Vane | 1, 3, 5 |
| Distortion of Pump Output to Sending Unit Coupler Material | | √ | √ | | 92 N | Modular Roller Vane | 2 |

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