

# DRIVEABILITY—BI-FUEL—OXYGEN SENSOR DIAGNOSTICS—HIGH OXYGEN SENSOR VOLTAGE READING

Article No.  
03-6-6

**FORD:** 1998-2000 CONTOUR  
1998-1999 E SERIES  
1998-2003 F-150  
1999 F-250

## ISSUE

Some Bi-Fuel vehicles may exhibit DTC's for high Oxygen Sensor voltage (P0132 and P0152). Current diagnostics may result in premature replacement of the Compuvalve.

## ACTION

If an Oxygen Sensor code is set, the current diagnostics direct the Compuvalve to be replaced if no faults are detected when Pinpoint Test H is conducted. The modified repair action outlined below gives additional test procedures if nothing is detected from Pinpoint Test H.

## SERVICE PROCEDURE

1. Prior to clearing any codes, to aid in diagnostics of intermittent failures, access and record the freeze frame data using the NGS Tester.
2. At step H4 of the pinpoint test, if Oxygen Sensor PIDS (HO2S11 and HO2S21) are within specification (see table in Section H of PC/ED Manual), clear codes and road test the vehicle in alternative fuel using the freeze frame data (from above) to duplicate conditions that triggered the code. During the road test, monitor Oxygen Sensor PIDs for both banks in both the PCM and the AFCM.

## NOTE

**A SECOND TECHNICIAN SHOULD MONITOR THE PIDS WHILE THE OTHER DRIVES. IF THE CODE/CONCERN CANNOT BE DUPLICATED, REFER TO PINPOINT TEST Z OF THE BASE VEHICLE PC/ED.**

3. If the concern is duplicated, and if voltage is outside of specifications in both the AFCM and the PCM, the fault is in the Heated Exhaust Gas Oxygen (HEGO) sensor circuit. Refer to base vehicle diagnostics.
4. If the voltage is outside of specifications in the AFCM only, replace the Compuvalve.

**OTHER APPLICABLE ARTICLES: NONE**  
**WARRANTY STATUS: INFORMATION ONLY**  
**OASIS CODES: 206000, 490000, 698298**

**NOTE:** The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers". Do not assume that a condition described affects your car or truck. Contact a Ford, Lincoln, or Mercury dealership to determine whether the Bulletin applies to your vehicle.