



2004 F650/750 6.0L Diesel

-NOTE-
IF CONCERN IS FOUND, SERVICE AS REQUIRED.
IF THIS CORRECTS THE CONDITION, IT IS NOT
NECESSARY TO COMPLETE THE REMAINDER OF
THE DIAGNOSTIC PROCEDURE.

CUSTOMER NAME
MODEL YEAR VEHICLE SERIAL NO.(VIN)
CHASSIS STYLE

Customer Concerns (Please list in this box)
DEALER NAME P & A CODE 1863 CLAIM NUMBER DATE
ENGINE SERIAL NUMBER ODOMETER TYPE OF SERVICE
VEHICLE GVW TRANSMISSION AMBIENT TEMPERATURE PERSONAL COMMERCIAL

Performance Diagnostics (1 of 5)

1. Engine Oil

- Leaks
Contaminated oil (fuel or coolant)
Oil grade, viscosity, and level
Miles/hours on oil

Comments

2. Fuel

(Figures A and B)

- Fuel level
Free of water, icing, and clouding
Free of contaminants
Correct fuel grade

Comments

3. Fuel Pressure

(Figures C and D)

- Measure (filtered) pressure at fuel filter housing.
Measure pressure at low and high idle.

Note: If unit was run out of fuel, make sure the fuel system is primed.

Table with 3 columns: Instrument, Spec, Actual. Row 1: 0-160 PSI Gauge, Low idle, High idle

- If fuel pressure is low, replace fuel filter, clean strainer, and retest.
If fuel pressure is still low, perform Test 4.

4. Fuel Inlet Restriction

Perform this test only, if Test 3 or Test 15 failed to meet specs.

- Measure at fuel pump. (Tool replaces strainer) (Figures E and F)
Measure at high idle, no load.

Table with 3 columns: Instrument, Spec, Actual. Row 1: 0-30 in Hg Vac gauge

- If fuel line is restricted, inspect suction line side and correct problem.
If fuel system is not restricted, inspect fuel regulator valve for debris.
If fuel regulator valve is not damaged, clean and reinstall regulator valve and retest fuel pressure.
If fuel pressure is still low, replace fuel regulator and retest fuel pressure.
If fuel pressure is still low, replace fuel pump.

5. Diagnostic Trouble Codes

- Install scan tool.
Perform Test 8 if a scan tool is not available.

Table with 2 rows: Active DTCs, Inactive DTCs

Correct problem causing active DTCs before continuing.

6. Key On Engine Off Standard Test

- Use scan tool to perform Key On Engine Off Standard Test.

Table with 1 row: Active DTCs

Correct problem causing active DTCs before continuing.

7. Key On Engine Off Injector Test

- Perform Test 6 before the Key On Engine Off Injector Test.
Use scan tool to run Key On Engine Off Injector Test.

DTCs found

Correct problem causing active DTCs before continuing.

8. Diagnostic Trouble Code Access

(Figure H)

(Required only if a scan tool is not available)

- Set parking brake. Turn ignition key ON.
Press and release CRUISE ON and RESUME /ACCEL switches at the same time, twice within 3 seconds of key ON.

Table with 2 rows: Active DTCs, Inactive DTCs

Correct problem causing active DTCs before continuing.

9. Intake Restriction

(Figures K and L)

- Measure restriction at high idle, no load.

Table with 3 columns: Instrument, Spec, Actual. Row 1: Manometer or Magnehelic gauge, 12.5 in H2O

Correct problem causing out of spec values, before continuing.

Refer to the PC/ED manual, Section 4 for more detail on all of the above test steps.

When troubleshooting a Hard Start/No Start or Performance concern, this form must be filled out to the point of repair and returned to receive warranty credit for diagnostic time for the following parts: Fuel Injectors (9E527), regulator-injection control pressure(9C968), pump assembly/high pressure oil (9A543), turbo charger assembly/pedestal (6K684), fuel pump (9350), IDM (12B599) and PCM (EEC)(12A650)
Test Point Figures and Tool Part Numbers are listed on the Following Pages with alternate methods using a DMM

What problems were found and what repairs were performed?
List Part Name, Number and Serial Number of parts replaced.