



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 <input type="checkbox"/> COMMERCIAL <input type="checkbox"/>

### Hard Start and No Start Diagnostics (1 of 5)

#### 1. Fuel

(Figures A and B)

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

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

Comments

#### 2. Engine Systems

- Leaks
- Loose connections

Fuel	Oil	Coolant	Electrical	Air
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#### 3. Engine Oil

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

Comments

#### 4. Intake and Exhaust Restriction

- Hoses and piping
- Filter minder (Figure C and D)
- Intake/exhaust restriction

Comments

#### 5. Initial Key On (Do not start.)

- Listen for injector precycle BUZZ (Length is temperature dependent).
- Check for WAIT TO START with key ON.
- Check Water In Fuel (WIF) indicator (optional).

Comments

#### 6. Engine Cranking

- Does engine crank?
- Check cranking RPM.
- Check oil pressure.
- Check smoke color.

Check	Spec	Actual
RPM		
Oil pressure		
Smoke color	---	

#### 7. Diagnostic Trouble Codes

- Install scan tool.
- Perform Test 10 if scan tool is not available.

Active DTCs
Inactive DTCs

Correct problem causing active DTCs before continuing.

#### 8. Key On Engine Off Standard Test

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

DTCs found

Correct problem causing active DTCs before continuing.

#### 9. Key On Engine Off Injector Test

- Perform Test 8 before doing the Key On Engine Off Injector Test.
- Use scan tool to perform Key On Engine Off Injector Test.

DTCs found

Correct problem causing active DTCs 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.