Caterpillar Engine Service Training 3126b Heui System

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Caterpillar® Engine Service Training



3126B HEUI Engine

Electronic Components, Features and Troubleshooting ESTMG

serial number prefix: 7AS

LERV0370

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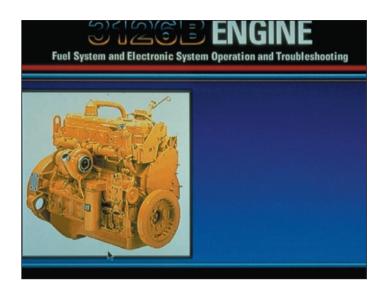
3126B HEUI Medium-Duty Truck Engine ESTMG

Audience: Level II and III - Service personnel who are familiar with diesel engine operation, diagnostic equipment and procedures for testing and adjusting. **Background:** This package contains information on 3126B HEUI Engine features and system operation. **Objectives:** After learning the information in this presentation, the service technician will be able to: 1. Identify component locations for 3126B engines 2. Identify new features on 3126B engines 3. Understand the operation of the 3126B engines 4. Understand differences between 3126B engines and the 3116/3126 engines **References:** 3126B HEUI Diesel Truck Service Manual RENR1360 Fuel System & Electronics System Operation and Troubleshooting CD Rom RENR1390 **Approximate Time:** 4-6 hours Hardware Needed: 3126B HEUI engine for any live lab demos

149-6115	Installer-Valve Seat (for Intake & Exh.) (use 3500 valve guide 7N1819, to press on 149-6115
6V4805	Valve Seat Removal Tool GP
1U7792	Intake Valve Guide Collar (same as current 1.1/1.2)
1U7793	Intake Valve Guide Installer (same as current 1.1/1.2)
149-4008	Exhaust Valve Guide Collar
9U6895	Exhaust Valve Guide Installer (same as 3406E)
150-3152	Injector Sleeve Installer
151-4832	Sleeve Remover Assy (grooved sleeves)
149-2955	Seal Protector (injector back up and O-rings, topmost groove)
149-2956	Seal Installer (injector back up and O-rings, topmost groove)
152-1057	Injector Installer Assy
152-1058	Socket-Head Bolt (20mm 12 point, 3/4 inch drive, impact)







- 7.2 Liter
- HI300 Fuel System
- Upgraded Electronics
- 3 Valve Head

The 3126B is a 7.2 liter displacement, mid-range truck engine which incorporates the latest technology for improved performance, fuel economy, and exhaust emissions. The 3126B uses the revolutionary HEUI HI300 fuel system, upgraded electronics, and a totally new three-valve cylinder head to optimize engine performance.

No. 2



- 175 to 300 HP Truck
- Special 330 HP
- Compare Full Feature to Basic

Horsepower ratings for 1998 range from 175 hp to 300 hp for truck applications. A special 330 horsepower rating is available for emergency vehicles and motorhomes.

Available in two different systems - Full Feature and Basic

No. 3

Full Feature for Freightliner, Peterbilt, Kenworth, Dina, etc.

Basic = GM Chassis

Full Feature ECM has a cooling fan output, coolant level sensor, J1939 data link, engine monitoring shutdown.



- No. 4
- Upgrade Fee Horsepower ratings can be increased, but require a one time uprate fee in addition to software and mechanical changes.

Fuel System and Electronic System Operation and Troubleshooting				
3126B Engine Family	HEUI Fuel System	Electronic Control System	Electronic Troubleshooting	



- New Features of the 3126B Engine
- Operation of the HEUI HI300 Fuel System
- Operation of the New Upgraded Electronic Controls
- Basic Diagnostics and Troubleshooting

This presentation will cover four topics:

New Features of the 3126B Engine Operation of the HEUI HI300 Fuel System

Operation of the New Upgraded Electronic Controls

Basic Diagnostics and Troubleshooting

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3126B HEUI



- New ECM
- 32 Bit, 16 Megahertz
- J1939 Data Link

The 3126B has a completely new ECM with a 32-bit, 16 megahertz processor. This new ECM is much faster and has more memory to allow electronic integration of engine, transmission, and anti-lock brake systems, as well as additional customer features.

No. 6

The new ECM also incorporates an upgraded J1939 communications data link. This new data link is faster and has more capacity to allow electronic integration between the engine and other vehicle systems.