



Customer Engine Diagnostics

Agenda



- » **What is Cat Customer ED**
- » **Available Features**
- » **Available Tests**
- » **Available Sessions**



Customer ED



- » **Cat Customer Engine Diagnostics is a software based service tool which gives the customer the capability to communicate and work with the electronic controls on Caterpillar CT series engines.**

- » **Engine Model Compatibility**
 - CT11/13 EGR Only
 - CT15 EGR Only
 - CT13 SCR

- » **Required Hardware**
 - 317-7485 Communication Adapter 3
 - 370-4617 USB Cable
 - 327-8981 Data Link Cable

- » **Recommended PC Requirements**
 - Java 1.6.0_27 (Java SE Runtime Environment 6, Update 27). Engine Diagnostics is installed and kept up-to-date via Java Web Start, which is part of the Java Runtime Environment from Oracle Corp. Before launching Engine Diagnostics, you must have Java installed.
 - Java 6 Update 27 is recommended.
 - 512MB of RAM
 - 150MB of free hard disk space
 - Operating System of Windows 2000, Windows XP, Windows Vista, or Windows 7.

Available Features



- » Read and clear DTCs
- » Read and Print Freeze Frame data
- » Read and Write Parameters
- » Read signals
- » Tests and Procedures (details in slide 5)
- » Sessions available (details in slide 6)
- » Snapshot triggers and recording
- » Export Parameters Report
- » Print and Export Vehicle Report
- » Print and Export Trip Report
- » Reset Trip Report
- » Reset Vehicle Events
- » Event Data Recorder
- » Simulate engine
- » Clear Statistics
- » Templates

Available Tests



» KOER Tests

- KOER Standard Test
- KOER Injector Test
- KOER Cont. Monitor Test
- KOER Air Management Test
- KOER VGT Output State Test Low
- KOER VGT Output State Test Medium
- KOER VGT Output State Test High
- Injector Disable Test/ Cylinder Cut-out
- Engine Run Up Test
- High Pressure Pump Test
- Coolant Control Valve Test
- Engine Fan Test
- Multiple Cylinder Cutout Test

» KOEO Tests

- KOEO Standard Test
- KOEO Injector Test
- KOEO Cont. Monitor Test
- KOEO Output State Low
- KOEO Output State High
- KOEO Inlet Air/Heater Glow Plug Output State Test
- Relative Compression Test
- Actuators Test
- KOEO Output State Test Air Heater Control
- Intake Air Heater Test
- Cold Start Assist

» KOEO Aftertreatment Tests

- Doser Actuator Test
- Actuator - AFT Purge Air Valve
- Actuator - AFT Fuel Shutoff Valve 2.62
- Actuator - AFT Fuel Injector
- Actuator - DEF Return Valve
- Actuator - DEF Line Heater 2.82
- Actuator - DEF Tank Heater 2.83
- Actuator - DEF Doser Pump Override 2.81
- Actuator - DEF System Leak 2.50

» KOER Aftertreatment Tests

- AFS Flow Test
- AFI Leak Test
- AFT System Leak Test
- Onboard Filter Cleaniness Test
- AFT Fuel Dosing Test

» KOEO Procedures

- DPF Servicing
- O2 Sensor Calibration

» KOER Aftertreatment Procedures

- DPF Filter Regeneration
- DSI System De-Aeration

Available Sessions



- » **Default**
- » **Parameters**
- » **Signals**
- » **Driver Switch Controls**
- » **HD-OBD Monitors**
- » **Programming**
- » **Hard Start - No Start**
- » **Performance**
- » **Aftertreatment**
- » **Continuous Monitor Test**
- » **Vehicle Events**
- » **Vehicle Trip Report**
- » **Event Data Recorder**