

Mac Tools Heavy Duty Truck Software Update – Q1 2019

Ver 2019/1

Mac Tools software release version 2019/1 is full of valuable and timesaving coverage features that you don't want to miss. Included are the details on new coverage additions.

In addition, the new Off-Highway Software package is now available, which gives users the ability to diagnose construction and agricultural vehicles.

Update your Mac Tools Diagnostic Scan Tool to software version 2019/1 today to maximize the power of your Mac Tools Diagnostic Scan Tool.



Newly Available Software Feature

Off-Highway Software

- Off-Highway coverage was first available with the last revision (2018/3)
- Includes diagnostic coverage for construction, agricultural, stationary engines, street sweepers, and more
- NOTE – these features are only available if you have purchased the Mac Tool ET8200-HD or upgraded your ET8100-HD with the OHW upgrade kit. Learn more about Mac Tools Off-Highway Software at <https://www.mactools.com/en-us/Diagnostics-and-Testing/Scan-Tools-and-Accessories/0da71bd5-4fca-4436-8aba-a8b9012dbb08/Heavy-Duty-Scan-Tool/ET8200-HD/Expert-Heavy-Duty-Tablet-Scan-Tool-with-Off-Highway-Coverage>



Added Coverage - Summary

Heavy –Duty Truck Additional Coverage

New content added for the following Heavy Duty Brands:

- Allison
- Bendix
- Caterpillar
- Cummins
- Detroit Diesel / MBE
- Eaton
- Freightliner
- Haldex
- PACCAR
- Power Solutions International (PSI)
- Mack
- Mercedes-Benz
- Meritor Wabco
- Navistar
- Volvo

Light and Medium –Duty Truck Additional Coverage

- Ford
- GMC/Chevrolet
- Hino
- Isuzu
- Mercedes Benz
- Mitsubishi-Fuso USA

Off-Highway: Stationary Engines Additional Coverage

- Caterpillar
- Deutz
- John Deere
- Mercedes Benz
- Perkins
- Volvo Penta



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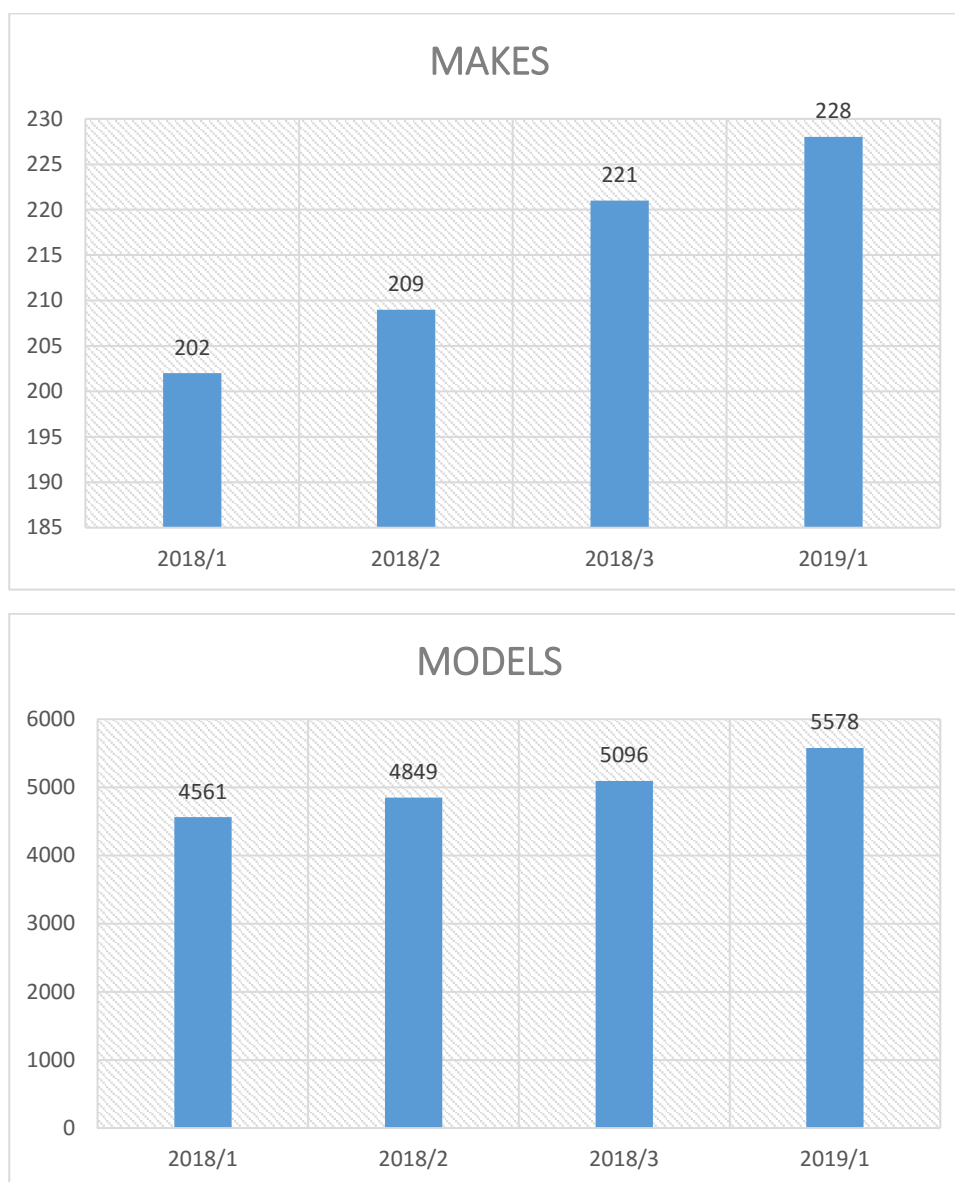
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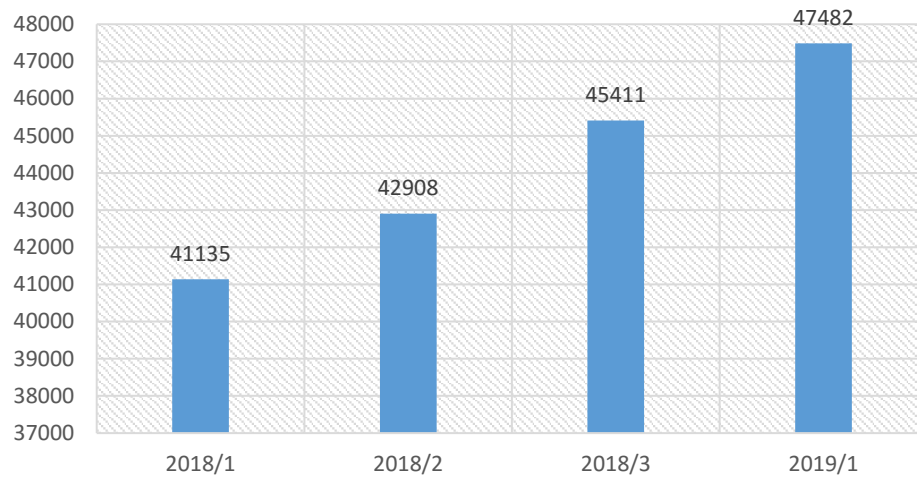
Coverage metrics 2019/1

1.1 Figures

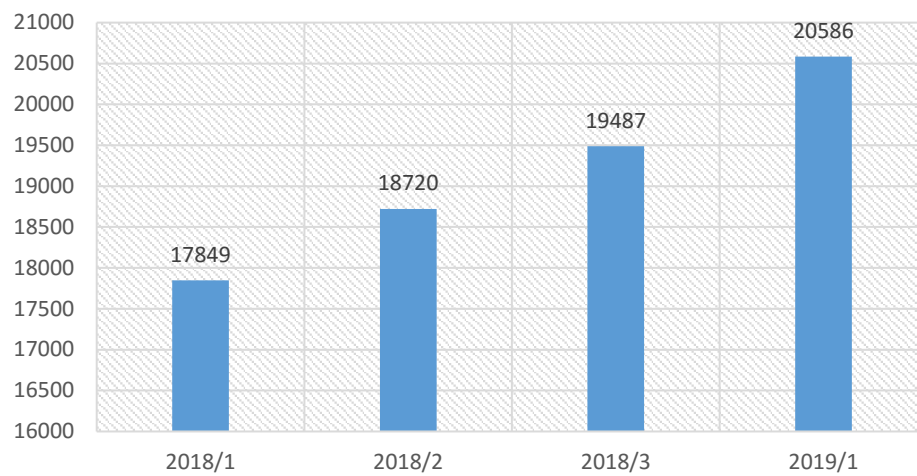
Note: These metrics include all type of vehicles/modules/licenses (Truck, OHW...)



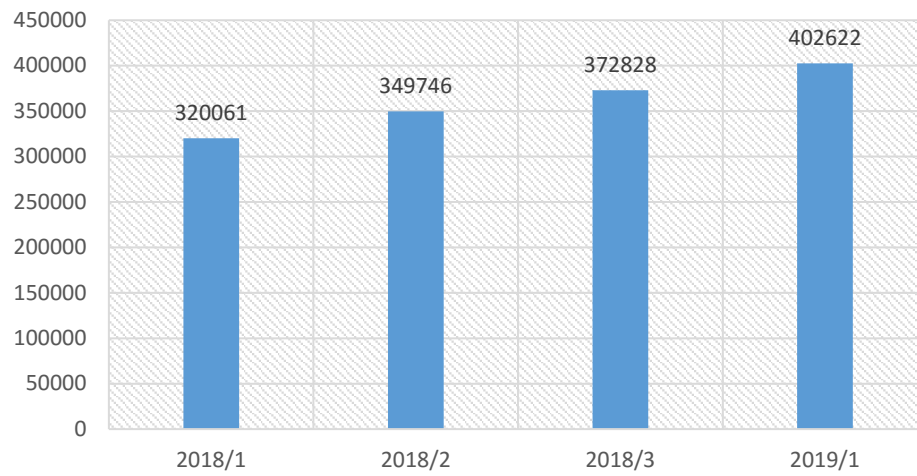
ELECTRONIC CONTROL SYSTEMS



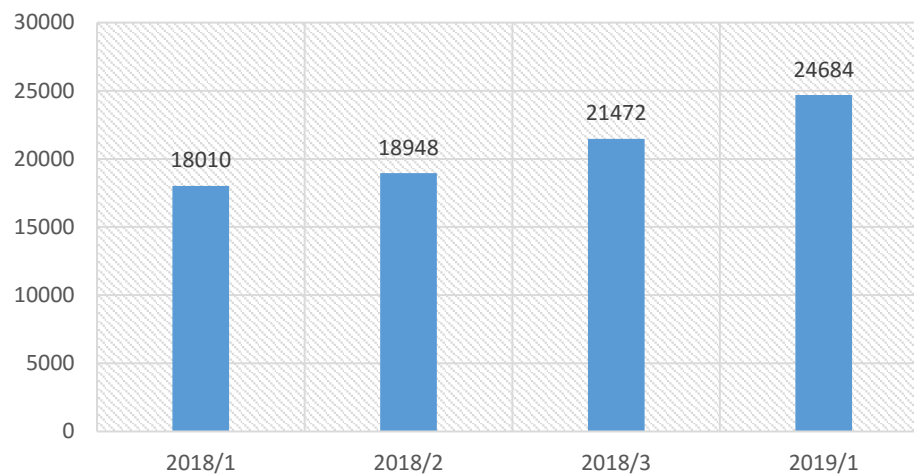
WIRING DIAGRAMS



FAULT CODES



TROUBLESHOOTING BY FAULT CODES



. 2 .

Software Innovations

2.1 Fuses and relays boxes

Technical information available in Model Info > Fuse and relay diagram.

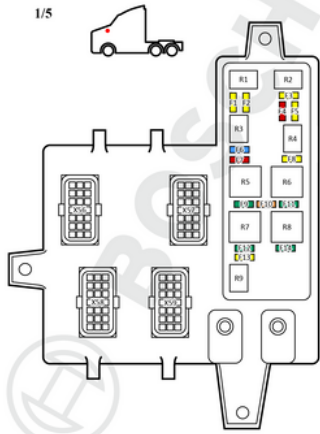
Internet is not required.

 **BOSCH**

DEMO / #    

 **Diagnosis**

SA 3, Allison, 3000/4000 Series (4th Gen), Transmission management system



Back F11

Zoom F2

Zoom F3

< - > F4

< F5

> F6

Symbols F7

Continue F12

2.2 Maintenance schedules (Service info) is shown alphabetically

 **BOSCH**

DEMO / #    

 **Diagnosis**

ISX 11.9/12/15 CM2250 EPA10

Complete service

Daily	▼
A - 25,000 miles (40,000 km) / 800 hours / 6 months	▼
B - 50,000 miles (80,000 km) / 1500 hours / 12 months	▼
C - 125,000 miles (200,000 km) / 3000 hours / 2 years	▼
D - 150,000 miles (241,000 km) / 4500 hours	▼
E - 200,000 miles (320,000 km) / 4500 hours	▼
F - 250,000 miles (400,000 km) / 6000 hours / 2 years	▼
G - 500,000 miles (800,000 km) / 10000 hours / 5 years	▼

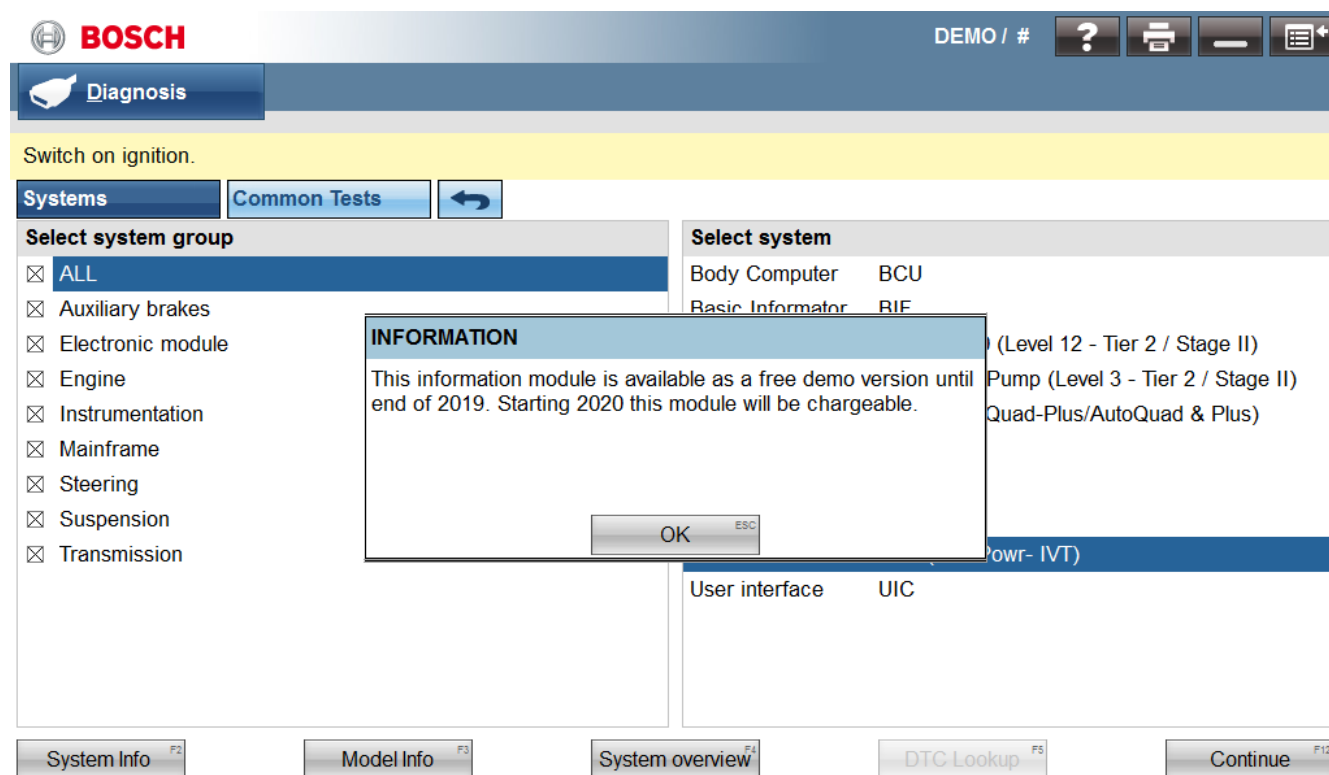
Back F11

Save F2

Continue F12

2.3 Online Repair Information Off-Highway modules

Promotional period in Off-Highway modules until end of 2019.



. 3 .

Main new functionalities by brand – HEAVY DUTY

3.1 ALLISON

1000/2000 3rd gen

- Freeze frame data for diagnostic codes

1000/2000 4th gen

- Freeze frame data for diagnostic codes

Hybrid H 40/50 EP

- Manual diagnosis

3.2 BENDIX

All Systems

- Manual diagnosis

Wingman ACB / Advanced, Radar Front End (anti-collision system)

Information

IMPORTANT

Only the errors present in the system will appear, meaning the errors that are active.

• Option 1

- The errors are displayed on screen and are made up of codes: SPN and FMI.- To see the rest of the errors press the buttons "UP" or "DOWN".

The format of the error code that must be entered is as follows: SPN

• Example Code : 1069

Enter the fault code in the manual diagnosis section of the

Pictures



Fault code

Search 

Back 

Troubleshooting 

Continue 

3.3 CATERPILLAR

Transmissions CX28/CX31/CX35

- Manual diagnosis

3406, C-12, 3126, 3176

- Vehicle speed signal parameters



Diagnosis

DRIVING SPEED SIGNAL - C-12 SAE J1708, Engine management system, unit injector

Information

CURRENT VALUE:

Name		ACTUAL VALUE	MIN VALUE	MAX VALUE
VEHICLE SPEED SIG., CALIBRATION VALUE		31200 ppm (Pulses per Mile)	0	384000

CHANGE F4Cancel F11Info F2 F3Continue F12**All Systems**

- Manual diagnosis

Information

Visualization of blink codes sequence is only possible with the vehicle turned on and stopped.

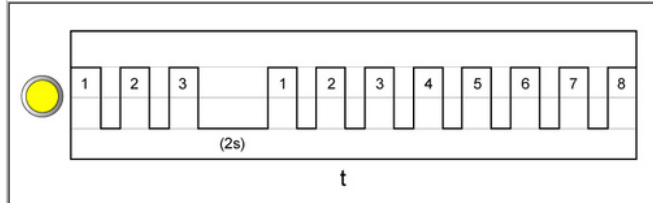
Only the errors present in the system will appear, meaning the errors that are active.

In order to carry out the reading of the blinking codes the following steps must be followed:

1. Turn the ignition key.2. Deactivate speed control system ("OFF").3. "SET/RESUME" Tempomat switch . Press and hold the switch in any position until the malfunction indication lamp starts flashing.

Error codes will be displayed with the format shown in the next image. (See figure. 1.)

Pictures


Fault code

Search F5

Back F11

Troubleshooting F2

Continue F12

3.4 CUMMINS

All Systems

- Manual diagnosis

L9 CM2350

- Aftertreatment data record
- VGT calibration
- VGT compatibility test

**COMPATIBILITY OF THE VGT ACTUATOR (VARIABLE GEOMETRY TURBINE) - L9 CM2350, Extra-high pressure injection, common rail****Information**

This action shows a list of compatible actuators for calibration of the variable geometry turbine (VGT). A series of measurements read from the currently installed actuator is also shown.

The user must check that the ID of the installed actuator is shown in the list of compatible actuators.

Before performing the installation or replacement of the VGT (variable geometry turbine) actuator, the user must check the compatibility of the VGT actuator to be installed.

Cancel

F11

Continue

F12

- Time and data setting (PC and manual)
- Time and date synchronization with the tacograph
- PM sensor regeneration

Information

This test allows to clean the soot sensor of the aftertreatment system. Once the operation starts, a heater located inside the soot sensor will be activated.

Image


Cancel

Pictures

Continue

- Particulate filter status
- Parameters:
 - ☐ Engine brake
 - ☐ Vehicle speed signal
 - ☐ Auxiliary power take-off
 - ☐ Fan control

B4.5/6.7 CM2350

- Time and data setting (PC and manual)
- Aftertreatment data record
- DPF regeneration
- Parameters:
 - ☐ Engine brake
 - ☐ Vehicle speed signal
 - ☐ Auxiliary power take-off
 - ☐ Fan control

ISB 6.7 CM2350

- Aftertreatment data record
- Time and data setting (PC and manual)
- Parameters:
 - ☐ Engine brake
 - ☐ Vehicle speed signal

ISBe4 CM850 (ECS-DC4)

- Time and data setting (PC and manual)
- Time and date synchronization with the tacograph
- Parameters:
 - 0 Power take-off
 - 0 Auxiliary power take-off

X15 CM2350

- Aftertreatment data record
- Parameters:
 - 0 Engine brake
 - 0 Vehicle speed signal
 - 0 Fan control

ISBe (4 & 6 cylinders) CM800 & ECS-DC3

- Trip data
- Parameters:
 - 0 VIN
 - 0 Power take-off
 - 0 Auxiliary power take-off

ISL 8.9/9.5 CM2150 Euro 5

- Time and data setting (PC and manual)
- VGT calibration

ISBe 4.5/6.7 – ISDe 4.5/6.7 CM2150 Euro 5

- Time and data setting (PC and manual)
- Parameters:
 - 0 Engine brake
 - 0 Vehicle speed signal

ISB 6.7 CM2250

- Aftertreatment data record
- Parameters:
 - 0 Engine brake
 - 0 Vehicle speed signal

ISX CM2350

- Aftertreatment data record
- VGT compatibility test
- SCR regeneration
- Parameters:
 - 0 Engine brake

ISC 8.3 CM2250

- Aftertreatment data record
- Parameters:
 - 0 Engine brake

QSB 4.5/6.7 CM2250

- VGT installation and calibration
- VGT activation
- Fuel system leaks checking
- EFC activation

QSB 4.5/6.7 CM2350

- VGT installation and calibration
- Parameters:
 - 0 Maximum vehicle speed
 - 0 Cruise control
- Passwords management

QSM11 CM570

- Parameters:
 - 0 Engine protection
 - 0 VIN

QSX15 CM570

- Cylinder cutout

3.5 DETROIT-DIESEL / MBE

All Systems

- Manual diagnosis

CPC3 Evo New Cascadia

- New! Parameters configuration: Maximum Vehicle Speed, VIN, ESN, Power Curve Rating

CPC Systems

- New! Engine brake parameters for GHG14/GHG17 vehicles
- New! Vehicle speed signal, tire size parameters for EPA07/EPA10/GHG14/GHG7 vehicles
- Low Temperature ATD Regeneration for GHG14 vehicles

 Diagnosis

ENGINE BRAKE - DDEC 13 CPC4, Common power train controller

Information

DO YOU WISH TO CHANGE THE PARAMETER?

ACTUAL VALUES:

Name	ACTUAL VALUE	MIN VALUE	MAX VALUE
CONFIGURATION OF THE ENGINE BRAKE	NOT INSTALLED	n/a	n/a
ENGINE BRAKE ACTIVATION, VEHICLE SPEED (MINIMUM VALUE)	0 mph	0	100
ENGINE BRAKE ACTIVATION, MINIMUM ENGINE RPM (RETARDER DRIVELINE)	800 rpm	800	4000
ENGINE BRAKE ACTIVATION, MINIMUM ENGINE RPM	1100 rpm	1000	4000
ENGINE BRAKE ACTIVATION, DELAY TIME	0 s	0	5

Cancel F11

Info F2
  F3

Continue F14
DDEC IV/DDEC V

- New! Vehicle speed signal, tire size parameters

DDEC V

- New! Engine brake parameters

DDEC 16 DD5

- Vehicle Technical data
- Service data

Detroit Series DD5/8/13/15/16, engine: DDEC 16 GHG17 5.1 210 (DD5 GHG17)

Tightening torques

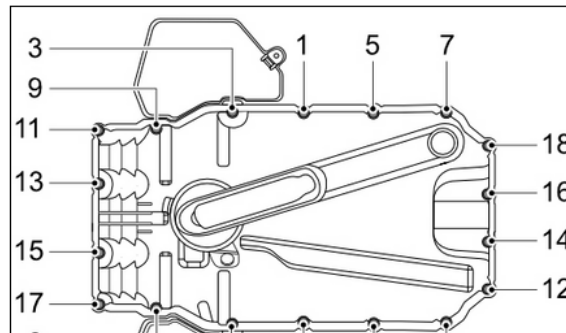
Search F8

Crankshaft
Cylinder head
Cylinder head cover
Engine flywheel
Engine lubrication
Exhaust manifold
Fuel system
General
Intake manifold
Rocker arm
Sump
Vibration damper

Tightening torques (Sump)

Sump: 18 lb-ft (25 Nm)

Tighten the bolts in numerical order



Back F11

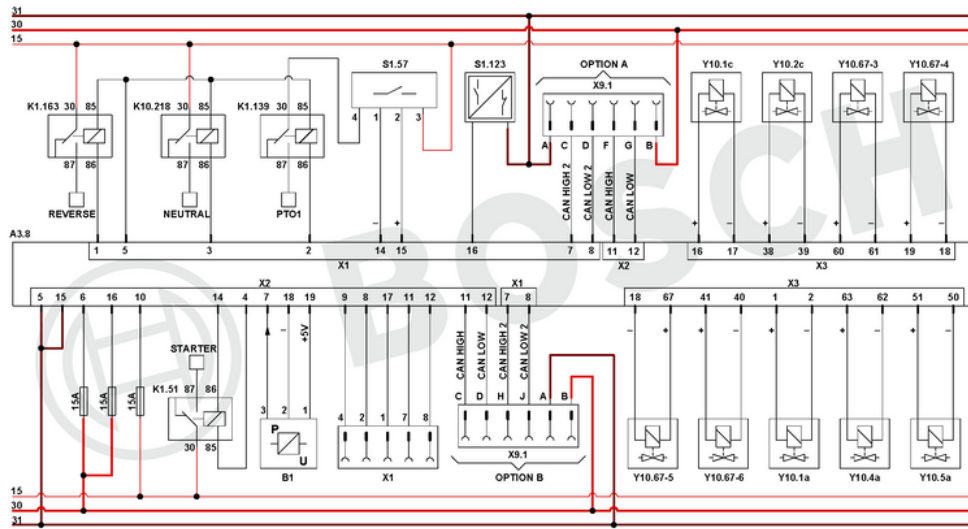
3.6 EATON

All Systems

- Manual diagnosis

Eaton Endurant

- New System! Fault codes reading, live data, technical data, wiring diagram



Back

Zoom +

Zoom -

< - >

<

>

Symbols

Continue

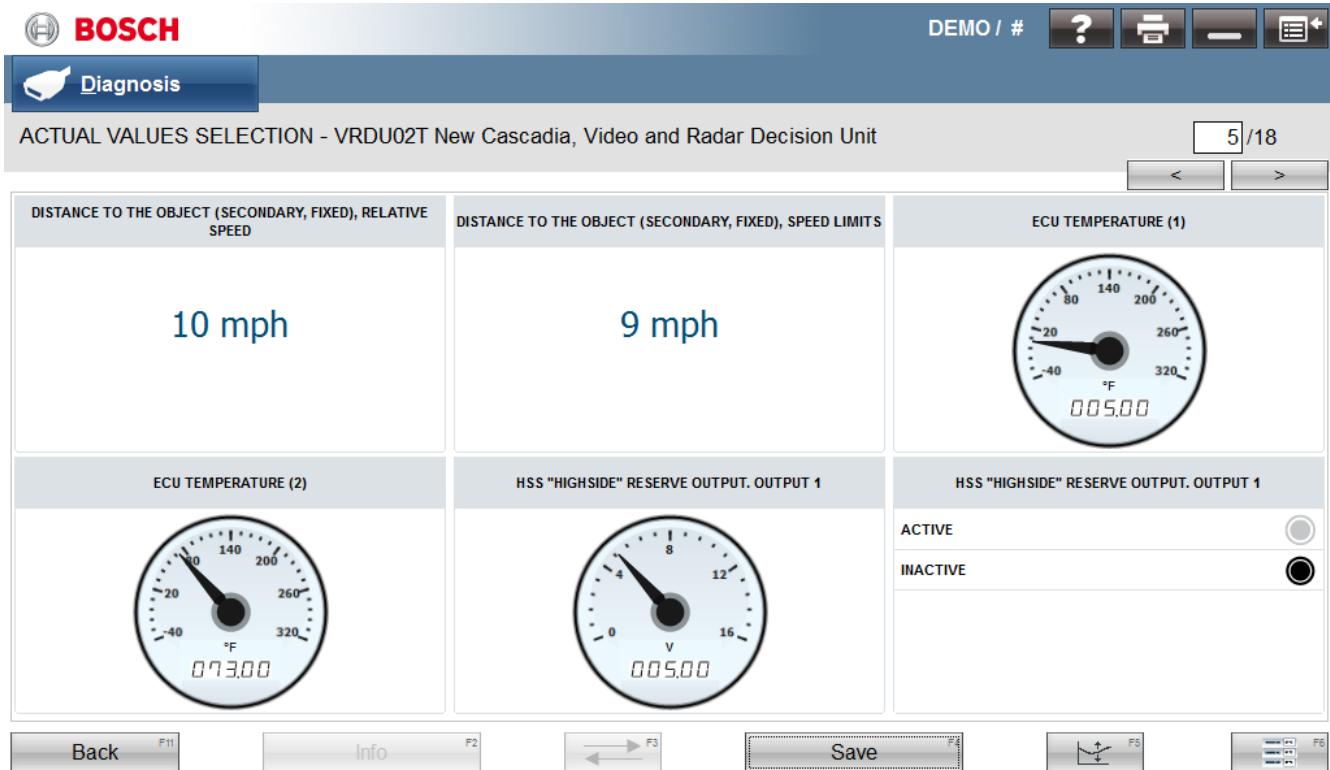
3.7 FREIGHTLINER

IPPC01T for New Cascadia

- Live data monitoring

VRDU02T for New Cascadia

- Live data monitoring



3.8 HALDEX

Haldex PLC/PLC Plus

- Manual diagnosis

3.9 PACCAR

All Systems

- Manual diagnosis

Paccar Cab Electronic Control Unit 3 CECU 3 (K Line)

- New system checks for P30-1030-006, P30-1008-103 and 08.31.2015.15.30.32 variants

Paccar PMCI-2

- Service data

PCI DAF/PACCAR KWP2000

- Service data

3.10 PSI

8.8 LPG engine

- Technical data

3.11 MACK

All Systems

- Manual diagnosis

EMS V3

- VGT calibration

TECU V3

- Clutch disc replacement calibration

3.12 MERCEDES-BENZ

All Systems

- Manual diagnosis

MBE900/4000 EPA07

- Trip data and reset
- Multiple Cylinder Cut-out
- Vehicle speed signal (tire size) parameters
- Absolute maximum vehicle speed parameter

TRIP DATA - Detroit Diesel MBE CPC (EPA07), Common power train controller

Information

PARTIAL DATA:

Name	ACTUAL VALUE	MIN VALUE	MAX VALUE
MILEAGE (TRIP)	275037.5 mi	n/a	n/a
FUEL CONSUMPTION (TRIP)	35266.51 gal	n/a	n/a
AVERAGE FUEL CONSUMPTION	7.8 mpg	n/a	n/a
ENGINE LOAD, AVERAGE	49 %	n/a	n/a
AVERAGE SPEED, VEHICLE	35.3 mph	n/a	n/a

Cancel

Info




Continue

3.13 MERITOR WABCO

All Systems

- Manual diagnosis

3.14 NAVISTAR

Navistar N9 EPA13 (2014-2018)

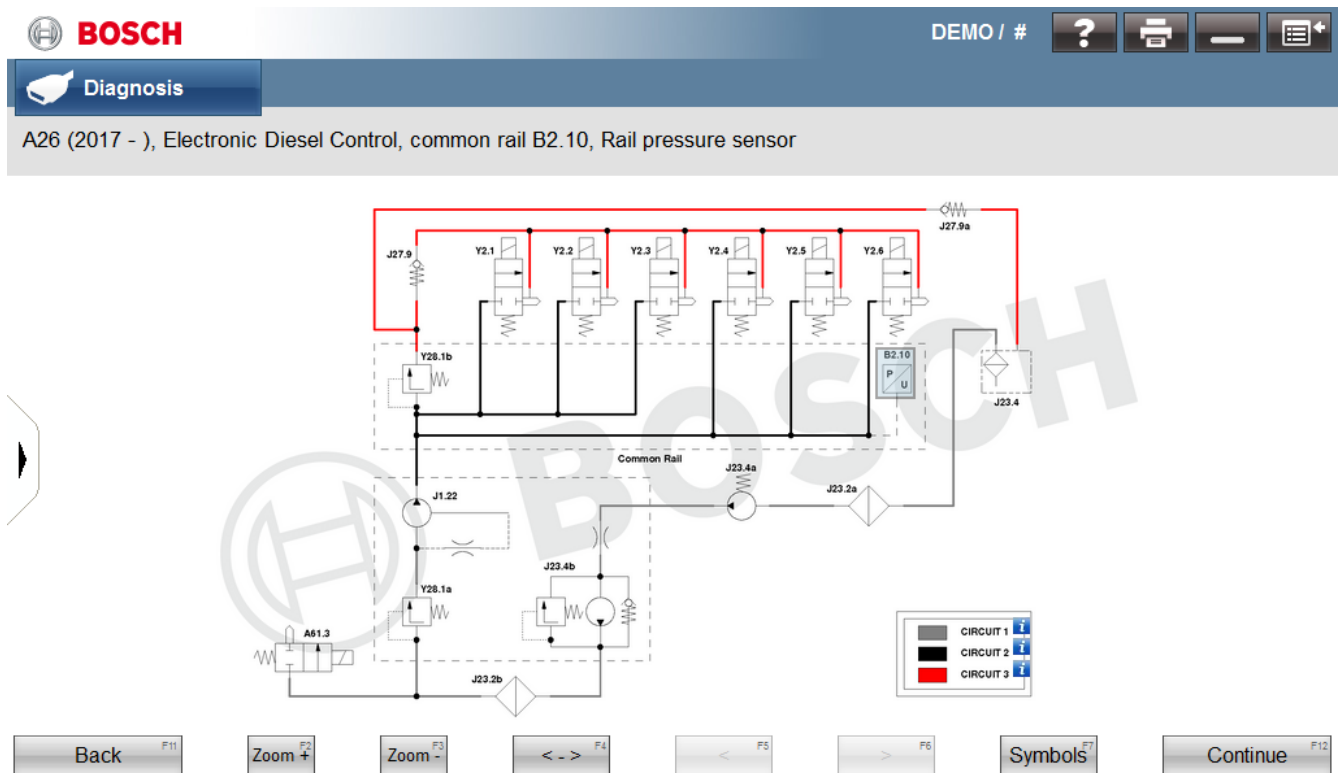
- New! Parameters modification: engine brake.
- Vehicle technical data

Navistar N13 EPA13 (2013-2014) & (2015 – 2017)

- New! Maintenance resets: Fuel relief valve, SCR fault reset, low coolant level, CMP/CKP learning, PTO
- Customer password programming
- Parameters modification: engine protection, engine brake
- Vehicle technical data

Navistar A26

- Fuel system operating diagram
- System Display



MaxxForce 11/13 (2010-2012)

- New! Parameters modification: geardown protection, idle shutdown timer
- New! Maintenance resets: Fuel relief valve,

PRESSURE RELIEF VALVE - MaxxForce 11/13 (2010 - 2012), Electronic Diesel Control, common rail

Information

THE CURRENT VALUES ARE DISPLAYED NEXT.

DO YOU WISH TO RESET?

Name	ACTUAL VALUE	MIN VALUE	MAX VALUE
TIMES OPEN OF THE PRESSURE RELIEF VALVE	5165	0	10000
OPEN DURATION OF THE PRESSURE RELIEF VALVE	6721 min	0	10000

RESET F4

Cancel F11

Info F2

  F3

Continue F12

MaxxForce 13 (2013)

- New! Parameters modification: vehicle speed signals, engine brake
- Maintenance resets: Fuel Relief Valve

MaxxForce DT (2007-2009)

- New! Parameters modification: engine brake, PTO

MaxxForce DT (2010-2012) / (2013)

- New! Parameters modification: Geardown Protection, vehicle speed signal, engine brake, temperature fan activation/deactivation

FAN CONTROL - MaxxForce DT/9/10 (2010 - 2012), Electro-hydraulic injection system (HEUI)

Information

THEN ENTER AND/OR SELECT THE VALUES OF THE PARAMETERS YOU WANT TO CONFIGURE

IF YOU DO NOT WISH TO CONTINUE, PLEASE CANCEL THE PROCESS...

Name	ACTUAL VALUE	MIN VALUE	MAX VALUE	NEW VALUE
FAN CONTROL, MODE	ON/OFF - TEMPERATURE CONTROL (COOLANT)	n/a	n/a	ON/OFF - TEMPERATUI
FAN ACTIVATION TEMPERATURE	212 °F	204	302	212
DEACTIVATION TEMPERATURE OF THE FAN	204 °F	-40	212	204

MaxxForce 7 (2010 – 2012)

- New! Parameters modification: engine brake, engine protection
- Service data

 Diagnosis

MaxxForce 7 EPA10

Vehicles with an average range between 7.0 - 11.0 mpg (2,98 - 4,68 km/L) or average fuel consumption between 21,4 - 33,6 L/10...

- ☐ Check engine fault codes
- ☐ Make sure the engine is not emitting any strange noises

Lubrication system

Remarks/Comments

- ☒ Check the engine oil level
- ☐ Check for oil leaks in the joints and tubes of the lubrication system

A - 11,000 mi (18.000 km) / 500 hours / 6 months

Fuel system

Remarks/Comments

- ☐ Drain the water from the fuel/water separator

Intake air system

Remarks/Comments

- ☐ Check condition, integrity, damage, corrosion and wear in the intake and exhaust system

Cooling system

Back

Save

Continue

DLC Engines

- New! Parameters modification: PTO, engine protection, engine brake
- Manual diagnosis

3.15 VOLVO

All Systems

- Manual diagnosis

EMS V3

- VGT calibration

TECU V3

- Clutch disc replacement calibration

. 4 .

Main new functionalities by brand – LIGHT & MEDIUM DUTY

4.1 FORD

Engines: 3.2/6.7 Powerstroke and 6.2/6.8 L Gas:

- New ODR Data. Operation Times, Distance, Adblue/DEF Data, Counts and emission data.

The screenshot displays the Bosch Diagnostic Software interface. At the top, the Bosch logo is on the left, and 'DEMO / #' is on the right. Below the logo is a 'Diagnosis' button. The main area shows 'PCM/TCM UDS - Distance traveled operating data'. A table titled 'ROUTE' lists three items: 'MILEAGE' with a value of '79847 mi', 'DISTANCE TRAVELED WITH ACTIVATED FAULT LA...' with '74350 mi', and 'DISTANCE TRAVELED SINCE FAULTS CLEARED' with '42846 mi'. At the bottom, there are four buttons: 'Cancel' (F11), 'Info' (F2), a navigation button with left and right arrows (F3), and 'Continue' (F12).

ROUTE	VALUE
MILEAGE	79847 mi
DISTANCE TRAVELED WITH ACTIVATED FAULT LA...	74350 mi
DISTANCE TRAVELED SINCE FAULTS CLEARED	42846 mi

F-250/550 6.7 Powerstroke:

- Speed limit. 2015 – 2016.

**Diagnosis**

PCM/TCM UDS, Electronic Engine Control

Adjustments / settings▲ **PARAMETER**

▷ INJECTOR CODE

▷ SHUTDOWN AT IDLE

▲ **SPEED LIMIT**

— CHANGE PARAMETERS

— **DISPLAY PARAMETERS**▷ **SERVICE**▷ **CALIBRATION**

Back

F11



F12

Continue

F12

- SCR Injector Cleaning Procedure
- Reset EGR Valve.

 Diagnosis

PCM/TCM UDS, Electronic Engine Control

Adjustments / settings

- PARTICULATE FILTER RESET
- REFILLING OF THE ADBLUE/DEF TANK
- ▾ REINITIALIZATION OF THE ADAPTION VALUES
 - AIR VOLUME SENSOR
 - AIR-CONDITIONING SYSTEM ACTIVATION REQUEST
 - CRANKSHAFT SENSOR
 - DOC (DIESEL OXIDATION CATALYST)
 - EGR (EXHAUST GAS RECIRCULATION) SYSTEM RESET
 - EGR VALVE**
 - ENGINE OIL SERVICE
 - EXHAUST GAS PRESSURE SENSOR IN FRONT OF THE PARTICULATE FILTER
- FUEL PRESSURE REGULATION
 - MISFIRE MONITORING
 - NITROGEN OXIDE NOX SENSOR BEHIND THE SCR CATALYTIC CONVERTER

Back F11

Continue F12

- Reset Turbo System.

 Diagnosis

PCM/TCM UDS, Electronic Engine Control

Adjustments / settings

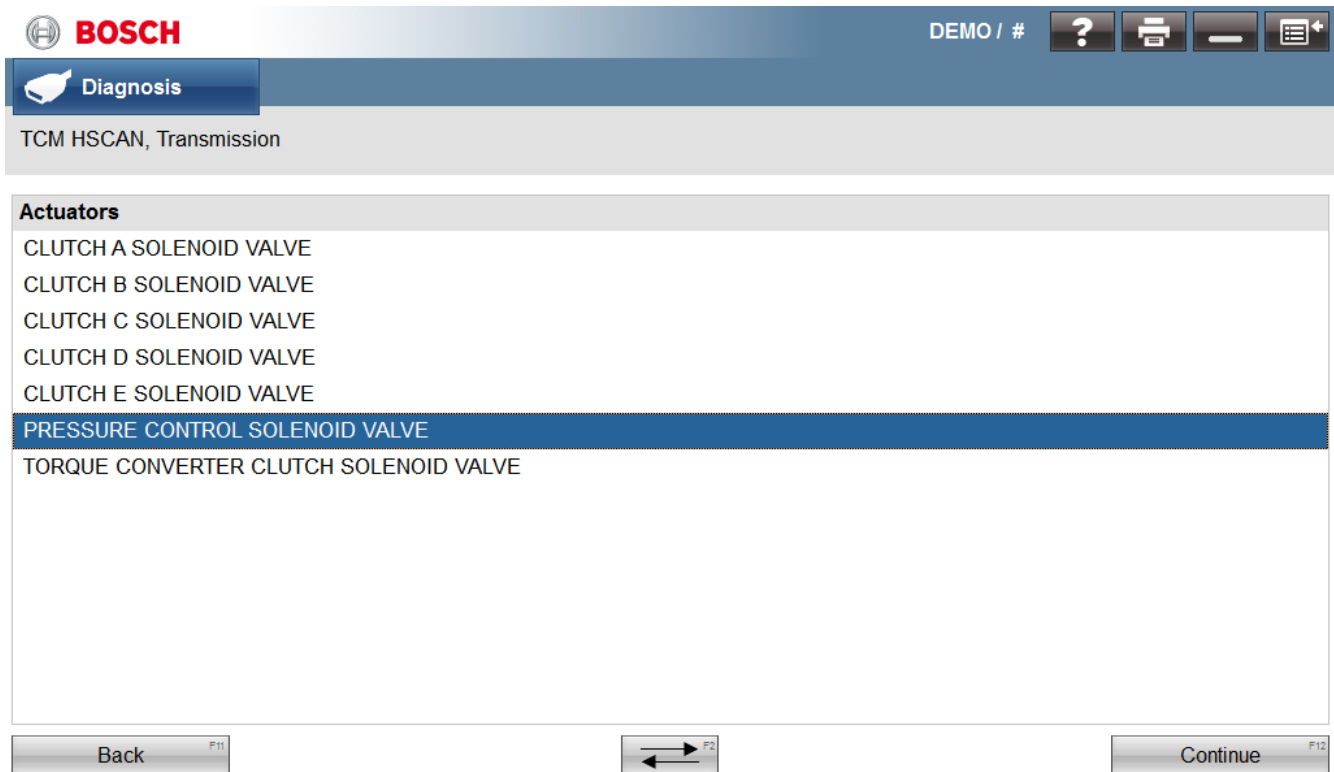
- MISFIRE MONITORING
- NITROGEN OXIDE NOX SENSOR BEHIND THE SCR CATALYTIC CONVERTER
- NITROGEN OXIDE NOX SENSOR IN FRONT OF THE SCR CATALYTIC CONVERTER
- NON-ERASABLE INTERNAL MEMORY (KAM)
- OXYGEN CONCENTRATION AT THE NOX SENSOR
- PARTICULATE FILTER CONTROL SENSOR (PM - PARTICULATE MATTER)
- PARTICULATE FILTER PRESSURE DIFFERENTIAL SENSOR
- PROTECTION MODE "A" AGAINST TURBOCHARGER HEATING
- PROTECTION MODE "B" AGAINST TURBOCHARGER HEATING
- SCR (SELECTIVE CATALYTIC REDUCTION)
- SCR SYSTEM FAULT MEMORY
- VARIABLE GEOMETRY TURBOCHARGER (VGT)**
- WATER IN THE FUEL DETECTION COUNTER

Back F11

Continue F12

TorqShift Transmission in 6.0L Powerstroke. Component Activations:

- Control Pressure Valve.
- Shift Valves: SSA / SSB / SSC / SSD / SSE.
- Torque Converter Valve.



Transit T-Series 3.2L Powerstroke:

- System Checkings: Adblue/DEF Metering Test

DCU (Dosing Control Unit) component activations:

- Reductant Pump
- Reductant Tank Heater
- Reductant line Heater Control
- Reductant Injector Heater
- Reductant Reverting Valve
- SCR Maintenance Reset.

DCU UDS, Exhaust gas treatment system

Adjustments / settings

ADBLUE/DEF SYSTEM PURGE

REFILLING OF THE ADBLUE/DEF TANK

SCR (SELECTIVE CATALYTIC REDUCTION)Back F11Continue F12**New Wiring Diagrams:**

- Ford UDS BCM (Body Control Module). F-250/550; F-650/750; Transit T-Series.
- Ford UDS ABS (Anti-Lock Brake System). Transit T-Series. 3.2L 3.5L 3.7L
- Ford UDS DCU (Dosing Control Unit), Transit T-Series. 3.2L 3.5L 3.7L
- HSCAN PCM (Powertrain Control Module) 5.4L.
- HSCAN PCM (Powertrain Control Module), esquema eléctrico F-250/550. 5.4L (2007 - 2005).

New Troubleshooting Guides:

- F-650/750 6.7L Diesel Powerstroke.
- F-250/550 6.8L Gas.
- F-650/750 6.8L Gas.

Diagnosis

CODE:P06A6_3 Reference voltage. Sensor A. Functional fault.

Troubleshooting **Fault Info**
General troubleshooting information

It is suggested to perform the troubleshooting in the sequence mentioned below.

▼ Step 1: Disconnect the component.

Step 2: Check the wiring and the connections (damaged contacts, dirt, corrosion etc.) as well as the line voltage and resistances.

▼ Step 2.1: 5 V supply voltage.

▼ Step 3: Check wiring and connections.

▼ Step 4: Check the air intake pressure sensor.

▼ Step 5: Check the performance of the EGR valve.

▼ Step 6: Check the pressure sensor for the exhaust gases.

▼ Step 7: Check the crankshaft sensor.

▼ Step 8: Check the actuator of the intake air throttle.

Back

Print

Technical documents 

4.2 GMC/CHEVROLET

Sierra / Silverado / Cheyenne / Express / Savana

Engine Code L5P:

Component activations:

- Fuel transfer pump.
- Intake air flow valve motor.
- Intake air flow valve position.
- Engine oil pressure control solenoid valve.
- Cooling fan.
- A/C relay.
- A/C compressor clutch relay.
- Fuel heater relay.
- Malfunction indicator lamp.

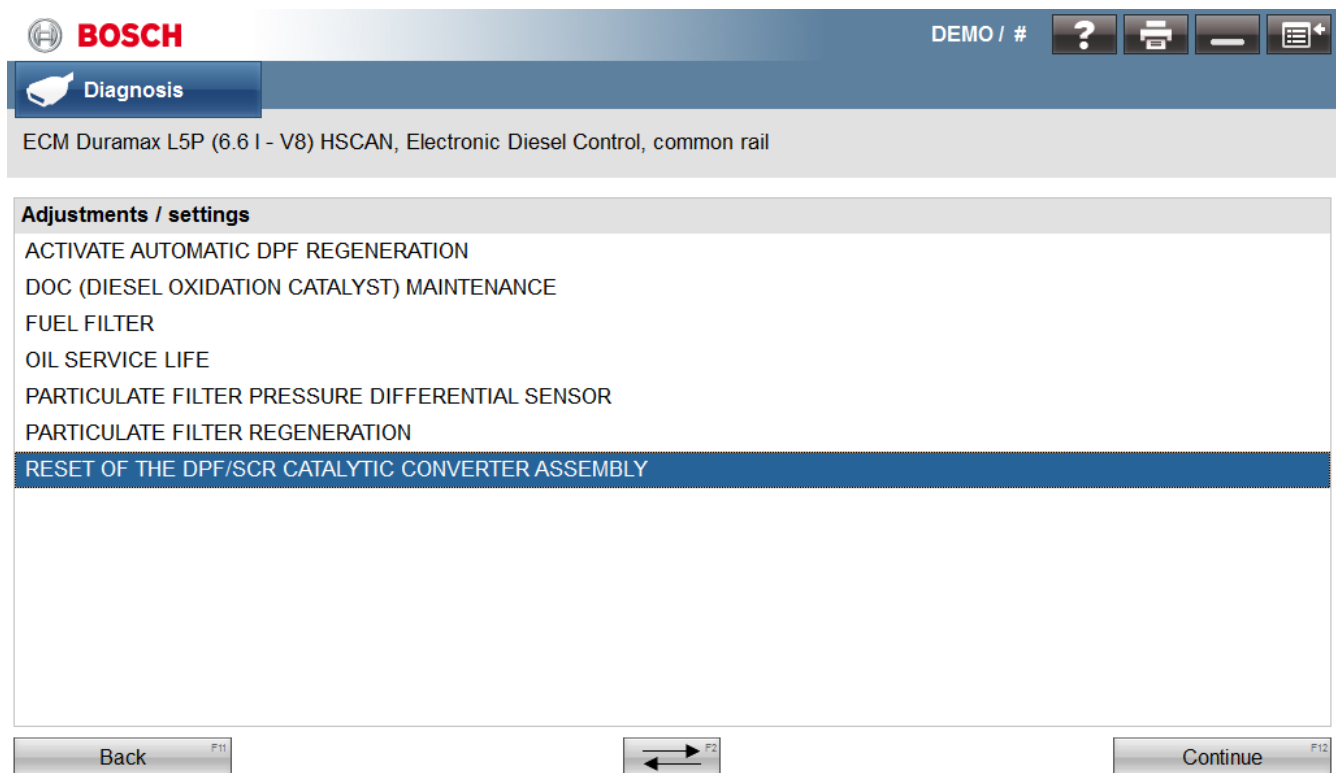
System Checkings:

- Generator.
- Cylinder Cutout.

- Fuel Pressure Regulator.
- Engine Speed.
- Exhaust Aftertreatment Fuel Injector Flow Test.

System Maintenances:

- DPF Regeneration.
- Enable DPF Automatic Regeneration.
- DOC (Diesel Oxidation Catalys) Reset.
- DPF / SCR Catalytic Converter Reset
- Oil Life.
- Fuel Filter.
- DPF Differential Pressure Sensor Reset.



New Wiring Diagrams:

- GM HSCAN - (Engine Code: L20) 4.8L V8
- GM HSCAN - SASM (Steering Wheel Angle Sensor Module)
- GM HSCAN - Trailer Brake Control Module (RP1210)
- GM HSCAN - Power Take-Off Module (RP1210)

4.3 HINO

Aisin A465 Transmission_Hino

- System display.

EDC Hino, J08E (K Line)

- Common-Rail pressure injection procedure
- New activations and live data

EDC J08E (CAN)

- New wiring diagrams configurations
- Troubleshooting guide by fault codes
- Common-Rail pressure injection procedure
- Air purgue procedure in the fuel filter

EDC Hino, J05E (CAN)

- New wiring diagrams configurations
- Troubleshooting guide by fault codes
- Procedures to inspect the health status of the turbocharger, DPF filter and MAF sensor.

EDC Hino, J05D

- Operation data
- Troubleshooting guide by fault codes

BCU (Burner Control Unit) Hino

- System display.

Meter Hino

- Technical data

ABS Hino

- New wiring diagrams configurations
- Troubleshooting guide by fault codes
- System display.

AdBlue Denox 2.2 Hino DCU (Urea SCR)

- System display.
- AdBlue/DEF liquid inspection procedure

4.4 ISUZU

Modelo Reach

- Maintenance resets

Mimamori

- Troubleshooting guides step by step

4HE1-TC & 4HE1-XS/XN (K Line)

- Troubleshooting guides step by step

4HK1-TC USA (CAN)

- Wiring diagram for 2016 and newer vehicles

Isuzu HSCAN SA 7E0 – (LY6/L96) 6.0L V8

- Wiring diagram configuration (2005 – 2007).
- Guías de reparación a errores del sistema.

Isuzu GM transmisión 6L90

- Wiring diagrams configurations
- Troubleshooting guide by fault codes

Aisin A465 Transmission_Isuzu

- Wiring diagrams configurations
- Troubleshooting guide by fault codes

Isuzu Hydraulic ABS/ASR (K Line)

- Wiring diagrams configurations
- Troubleshooting guide by fault codes

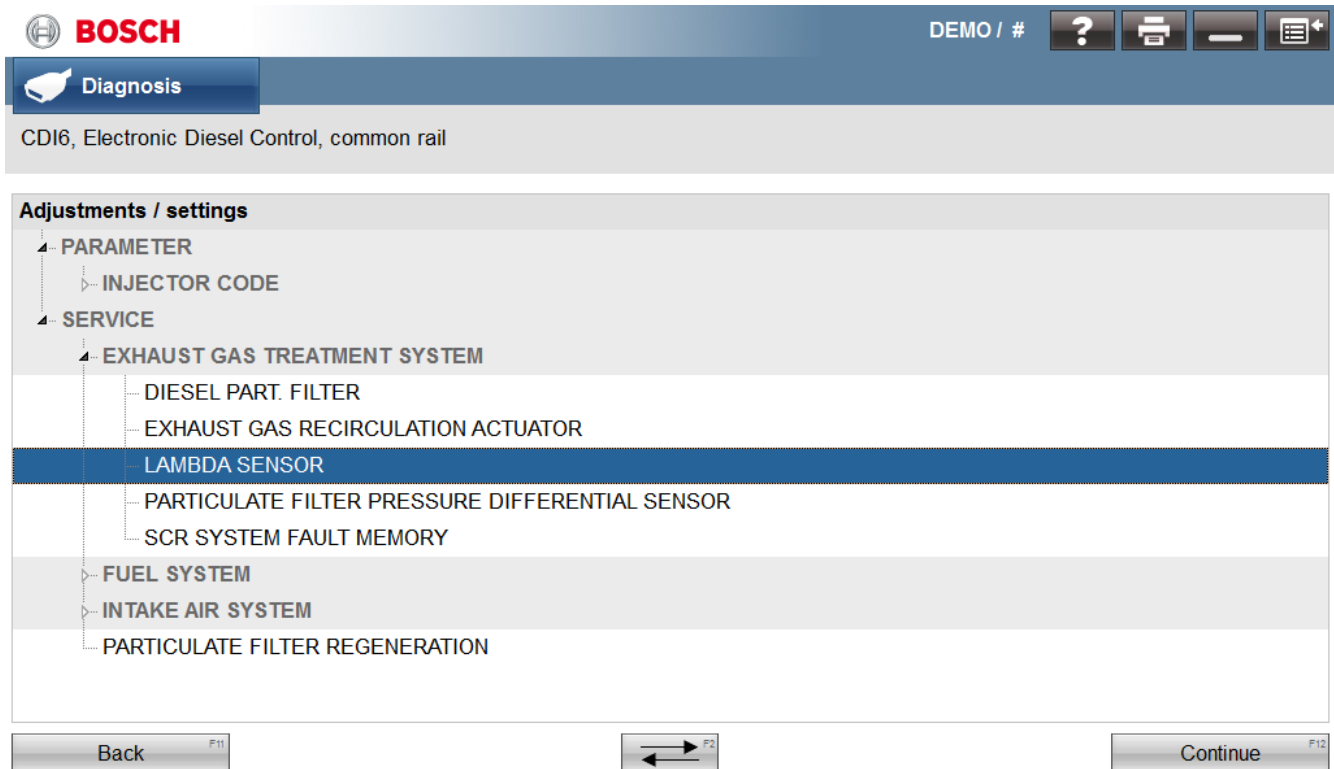
4.5 MERCEDES BENZ

Mercedes Sprinter with Engine OM651 (2013 - ...)

- Intake Air System procedure
- Fuel Filter Heater
- Amount of recirculated exhaust gases

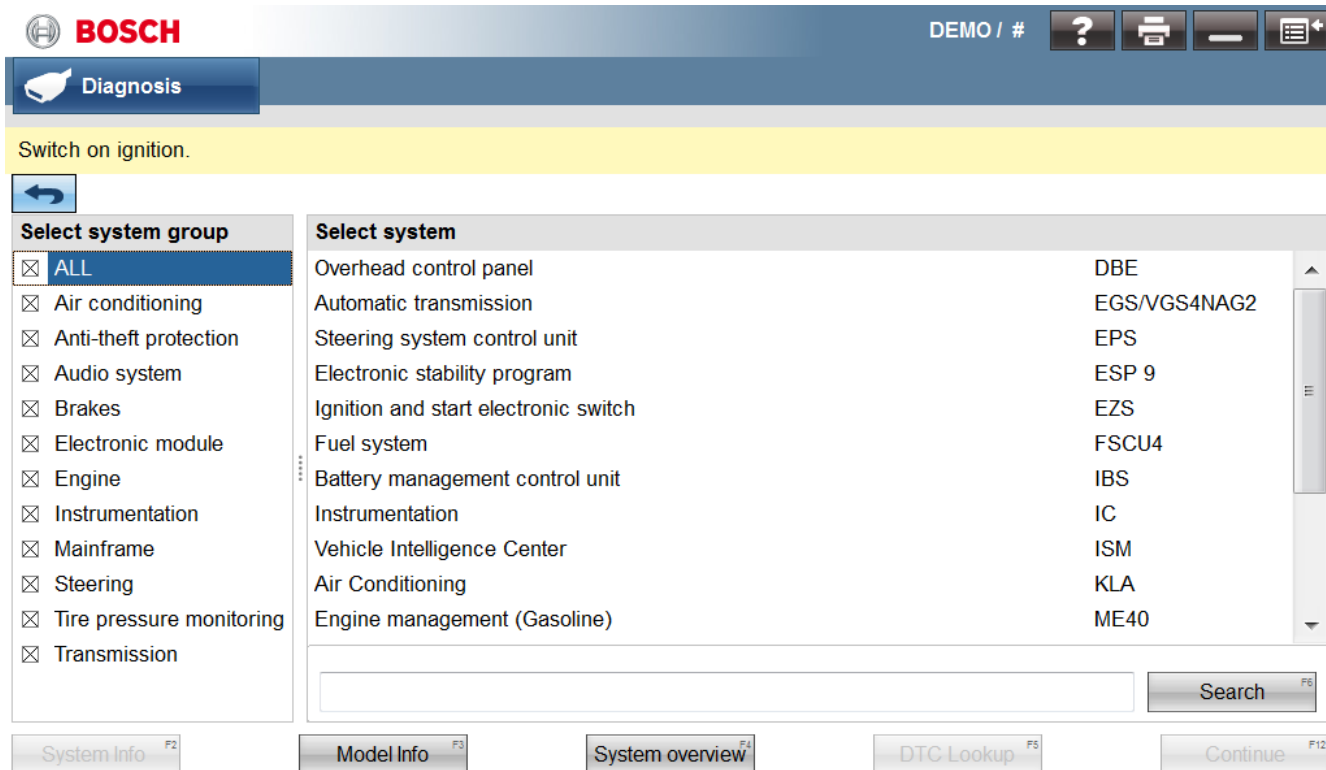
Mercedes Sprinter with Engine OM642 (2010 – 2012)

- SCR System Reset
- Temperature sensor before SCR Catalyst



New Model: **Mercedes Benz Metris:**

- Engine System M274: MED40. Reading Fault + Live Data.
- Electronic Ignition Lock
- EGS/VGS4NAG2
- Automatic Cab Climate
- SAM Signal Actuation Module
- Electric Power Steering
- Steering Control module
- ESP 9 LEI diagnostic system
- Instrument Cluster
- Battery Sensor
- DBE Overhead control panel
- ISM Intelligent Servo Module
- MFL Module
- OBF Module
- FSCU (Fuel Sensing control Unit)
- Radio



4.6 MITSUBISHI-FUSO USA

Fuso_EDC 7 C4-6-6 (MR 4M4 / 4M50 CAN)

- DPF regeneration



PROCESSING...

Name	ACTUAL VALUE	MIN VALUE	MAX VALUE
TEST STATUS	ON	n/a	n/a
ENGINE SPEED	1132 rpm	0	4000
EXHAUST GAS TEMPERATURE DOWNSTREAM OF THE PARTICULATE FILTER (DPF)	123.8 °F	32	1832
EXHAUST GAS TEMPERATURE UPSTREAM OF THE PARTICULATE FILTER (DPF)	977 °F	32	1832

Cancel

Info




Continue

Fuso_TCM – DUONIC Control Unit

- Learning shifting process

. 5 .

Main new functionalities by brand – Off-Highway

See www.boschdiagnostics.com for new coverage details.

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