Bosch ESI[truck] Heavy Duty Truck Software Update – Q1 2019

Ver 2019/1

Bosch ESI[truck] 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 Bosch ESI[truck] Diagnostic Scan Tool to software version 2019/1 today to maximize the power of your Bosch ESI[truck] 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 ESI[truck] Off-Highway Upgrade Cable Kit and Introductory Software. Learn more about Bosch Off-Highway Software at https://www.boschdiagnostics.com/pro/products/esitruck-highway-upgrade-cable-kit-introductory-software-license

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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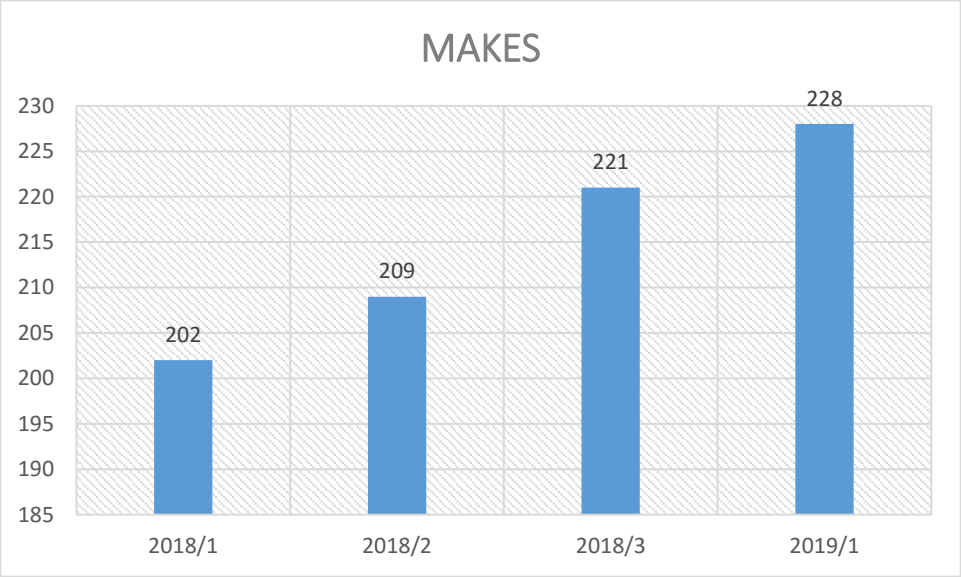
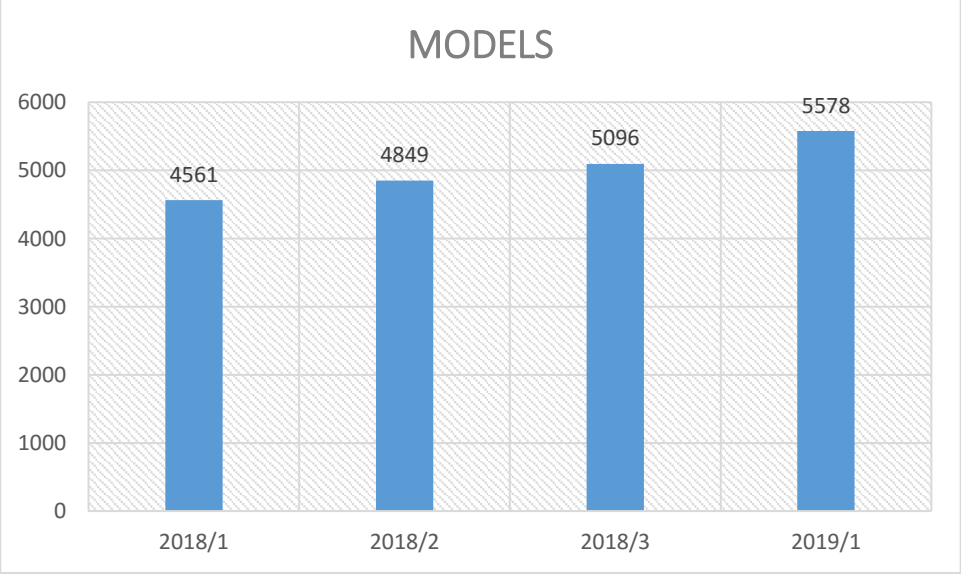
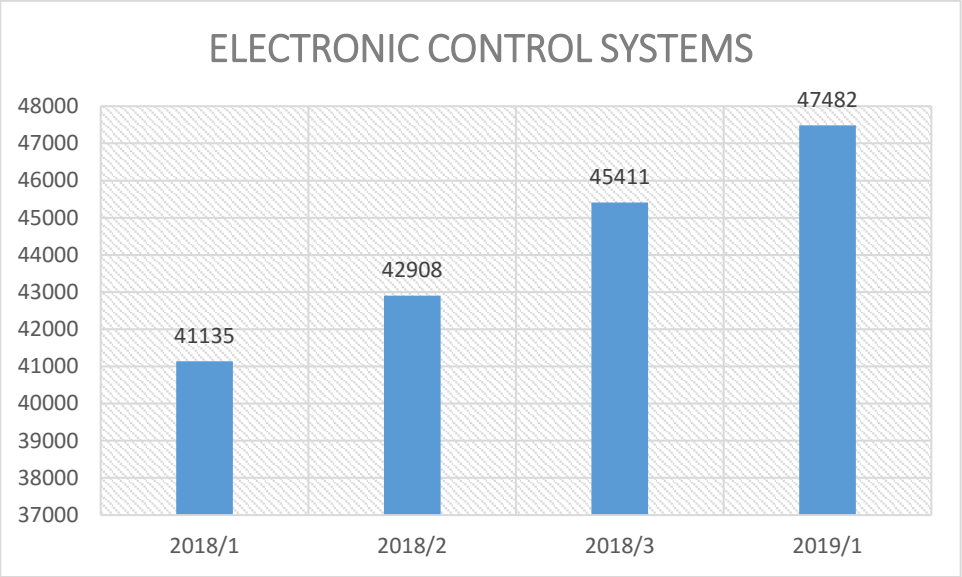
.1.
Coverage metrics 2019/1

1.1 Figures

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






ELECTRONIC CONTROL SYSTEMS
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47000
46000
45000
44000
43000
42000
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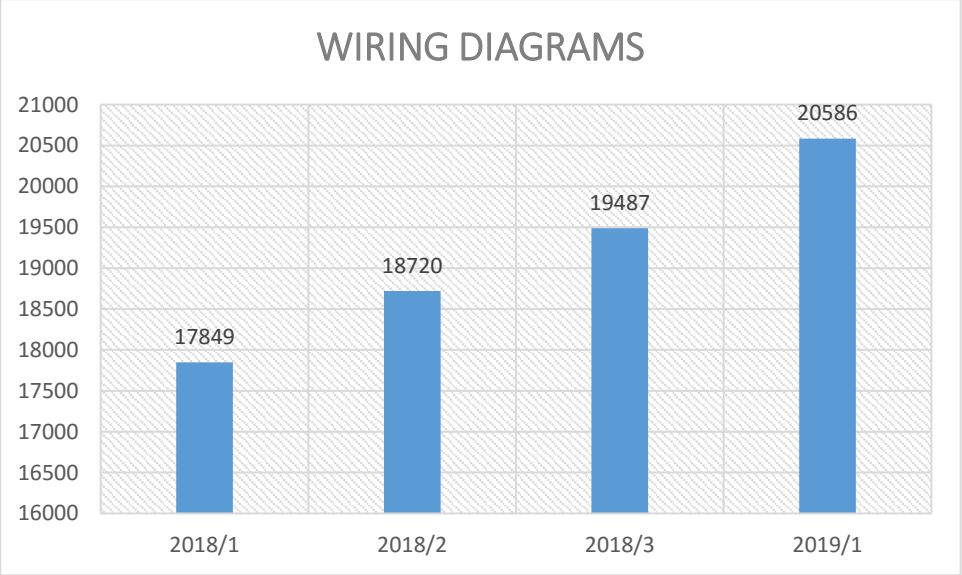
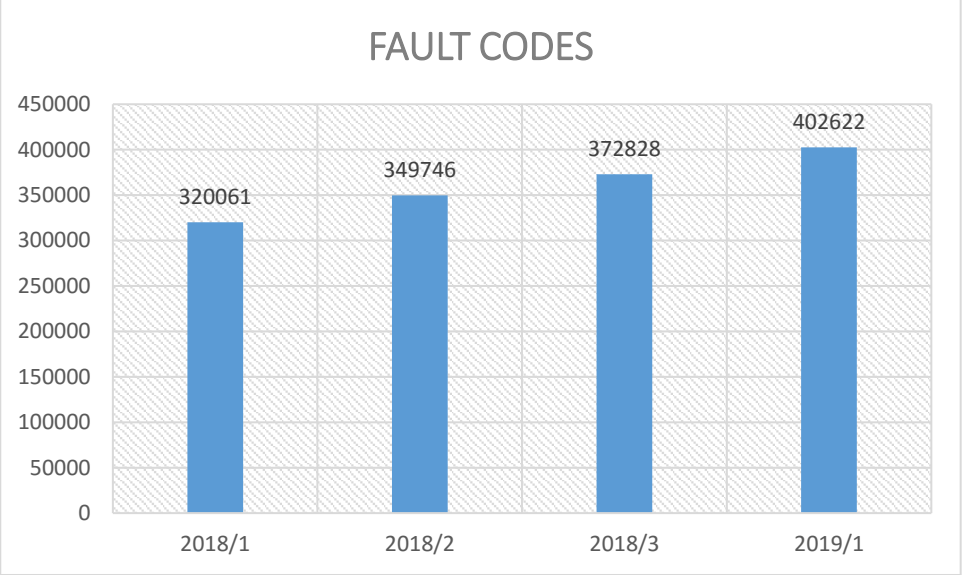
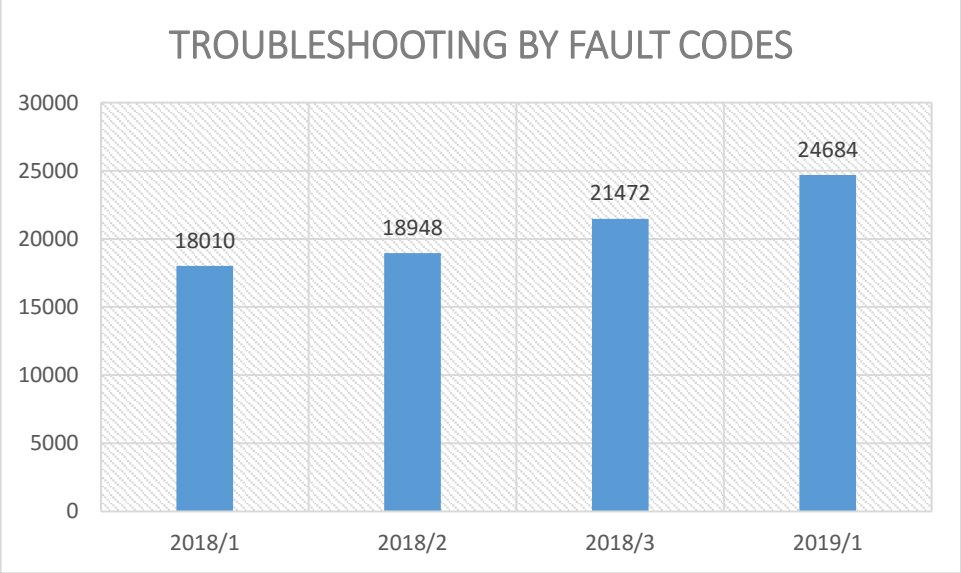
39000
38000
37000
41135
42908
45411
47482
2018/1
2018/2
2018/3
2019/1


WIRING DIAGRAMS
21000
20500
20000
19500
19000
18500
18000
17500
17000
16500
16000
17849
18720
19487
20586
2018/1
2018/2
2018/3
2019/1


FAULT CODES
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
320061
349746
372828
402622
2018/1
2018/2
2018/3
2019/1

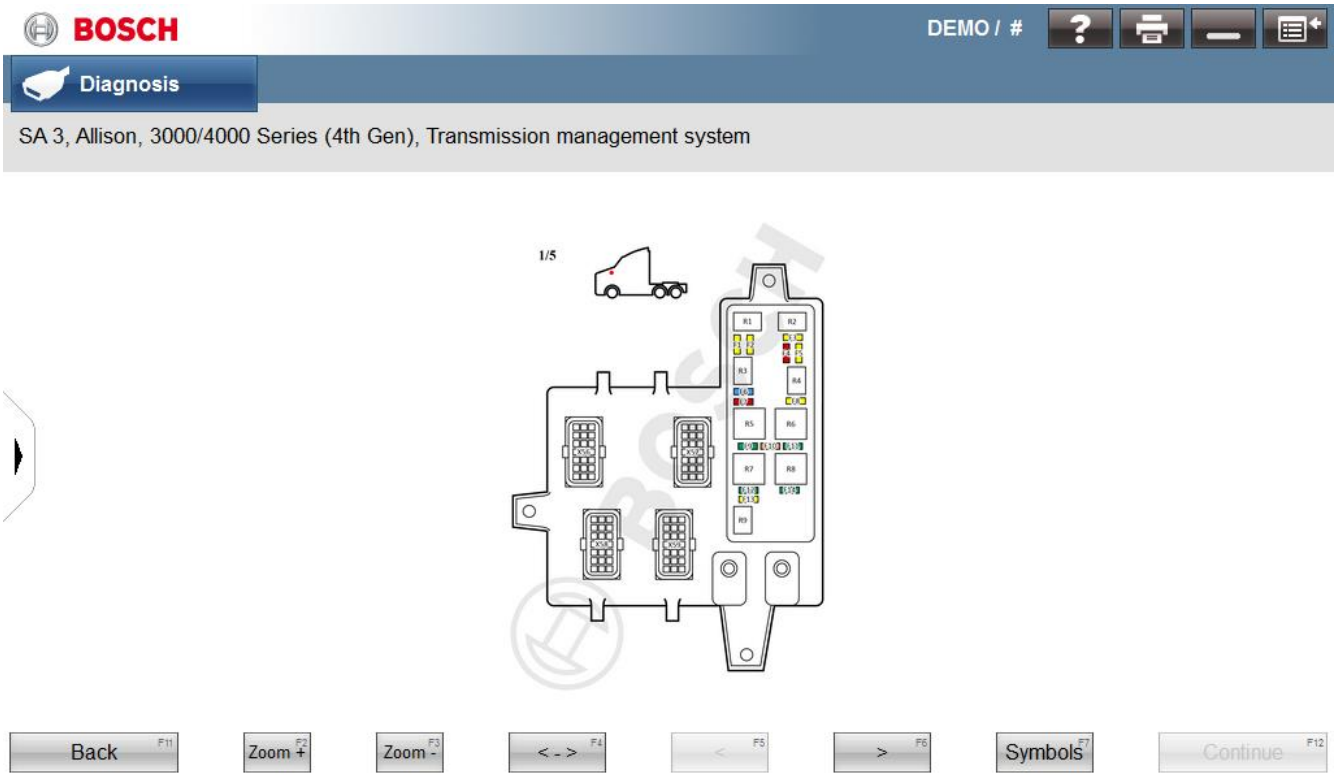

TROUBLESHOOTING BY FAULT CODES
30000
25000
20000
15000
10000
5000
0
18010
18948
21472
24684
2018/1
2018/2
2018/3
2019/1

.2.
Software Innovations

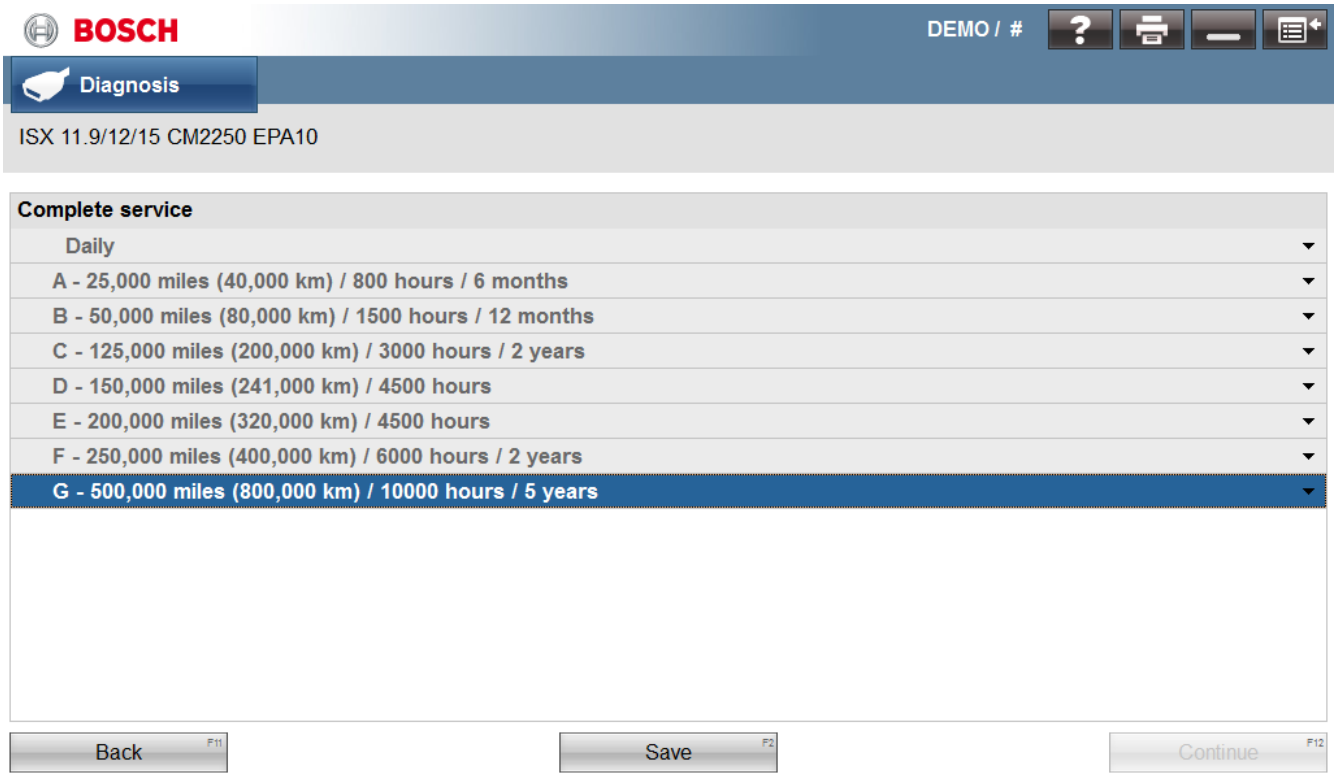
2.1 Fuses and relays boxes

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

Internet is not required.

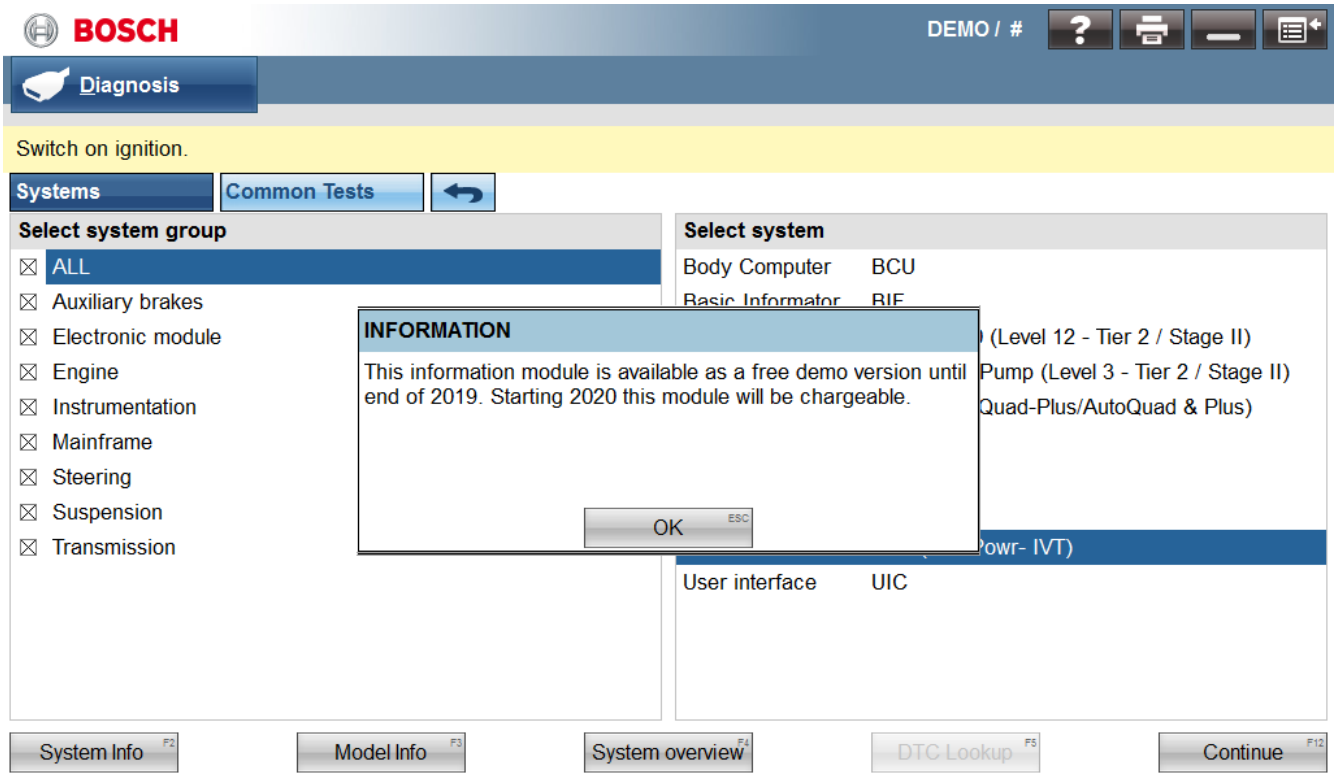


2.2 Maintenance schedules (Service info) is shown alphabetically



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

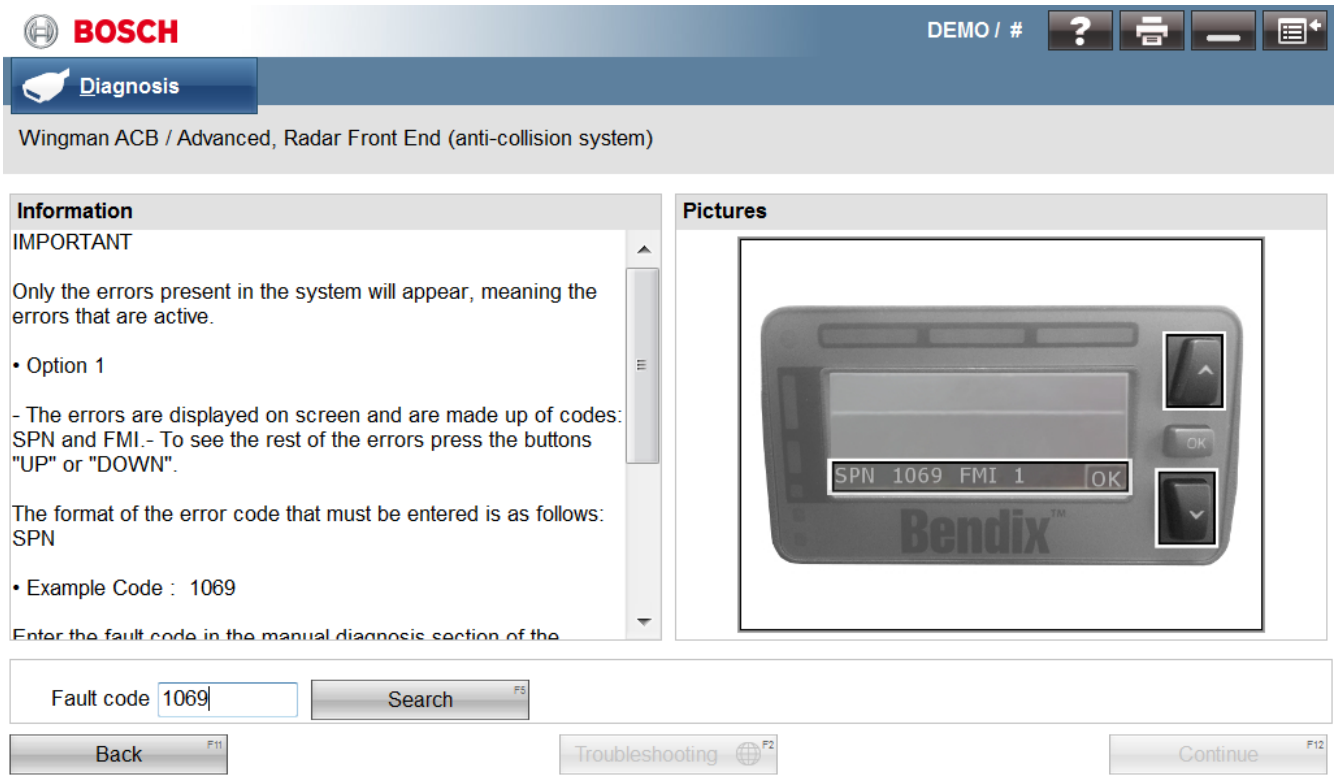
Hybrid H 40/50 EP

- Manual diagnosis

3.2 BENDIX

All Systems

- Manual diagnosis



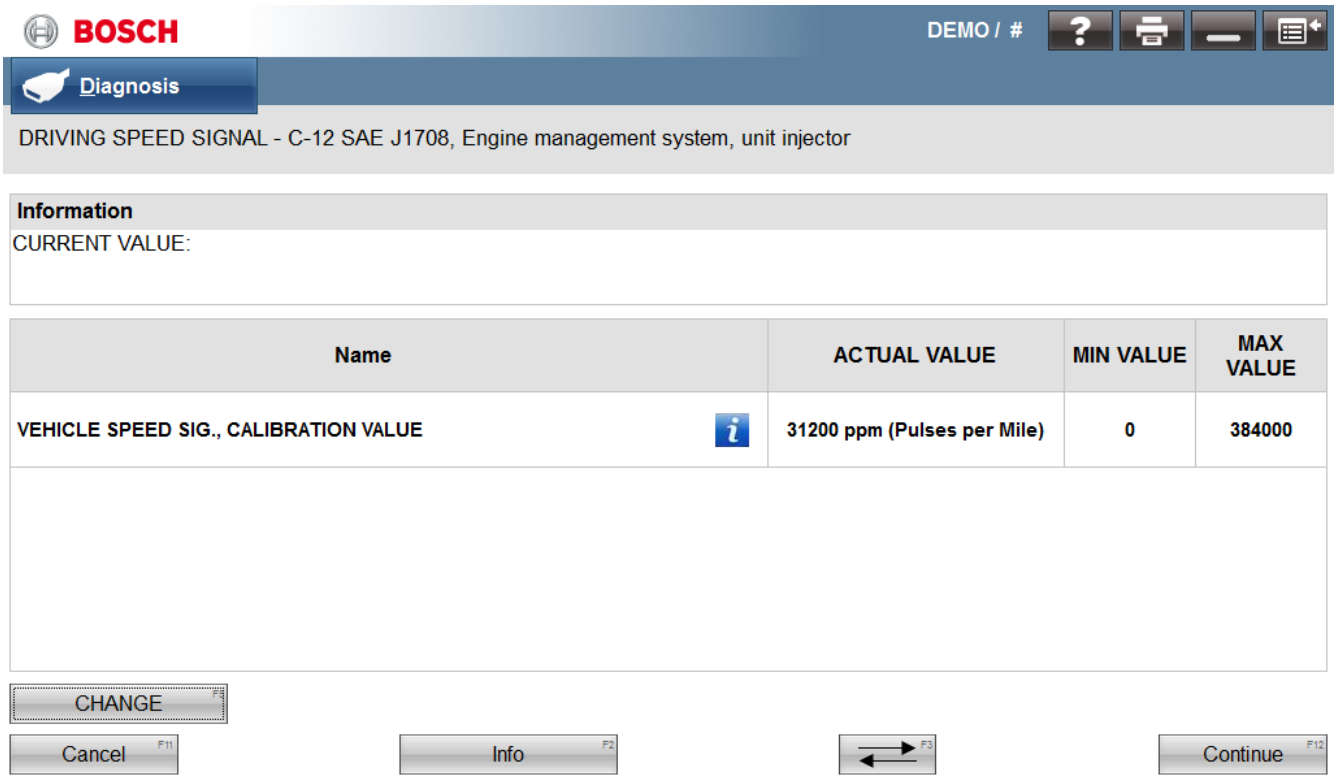
3.3 CATERPILLAR

Transmissions CX28/CX31/CX35

- Manual diagnosis

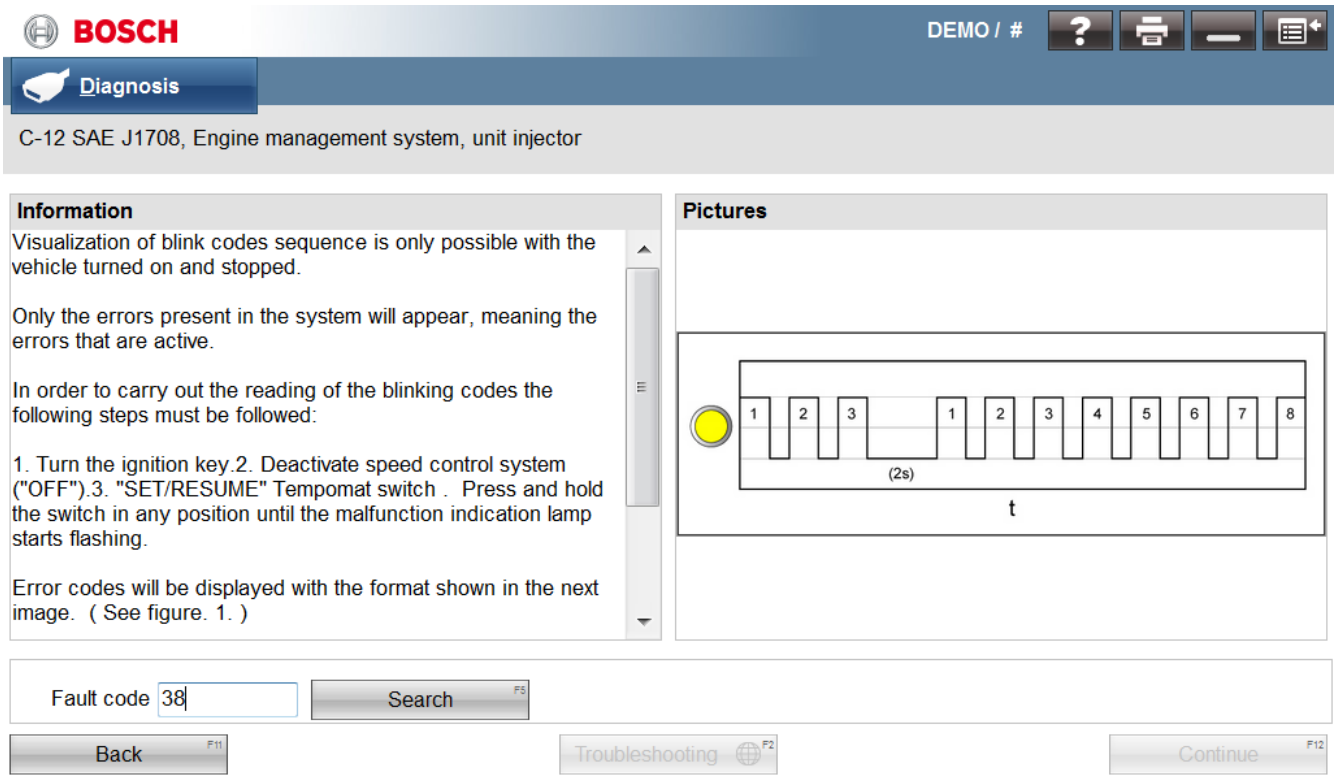
3406, C-12, 3126, 3176

- Vehicle speed signal parameters



All Systems

- Manual diagnosis



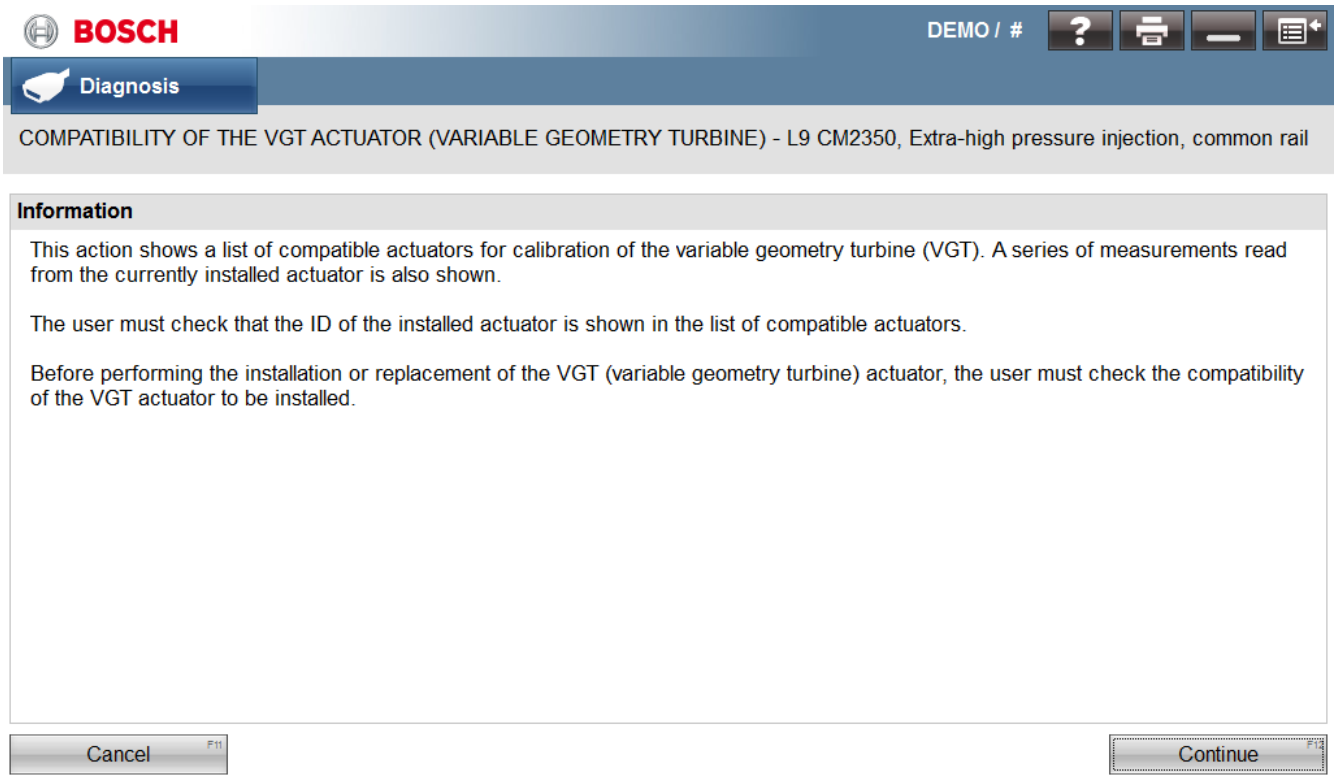
3.4 CUMMINS

All Systems

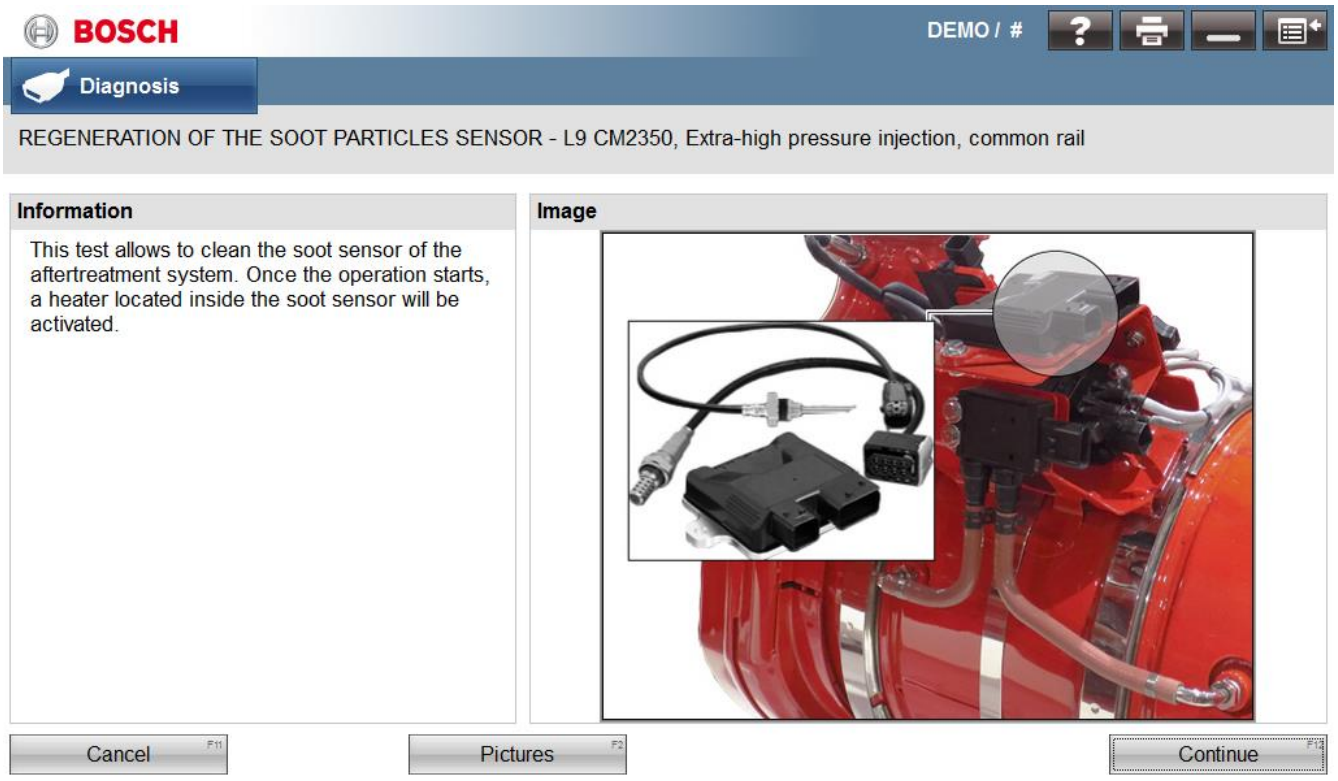
- Manual diagnosis

L9 CM2350

- Aftertreatment data record
- VGT calibration
- VGT compatibility test



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



- 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:
    - Power take-off
    - Auxiliary power take-off

X15 CM2350

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

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

- Trip data
- Parameters:
    - VIN
    - Power take-off
    - 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:
    - Engine brake
    - Vehicle speed signal

ISB 6.7 CM2250

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

ISX CM2350

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

ISC 8.3 CM2250

- Aftertreatment data record
- Parameters:
  - 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:
  - Maximum vehicle speed
  - Cruise control
- Passwords management

QSM11 CM570

- Parameters:
  - Engine protection
  - VIN

QSX15 CM570

- Cylinder cutout

3.5 DETROIT-DIESEL / MBE

All Systems

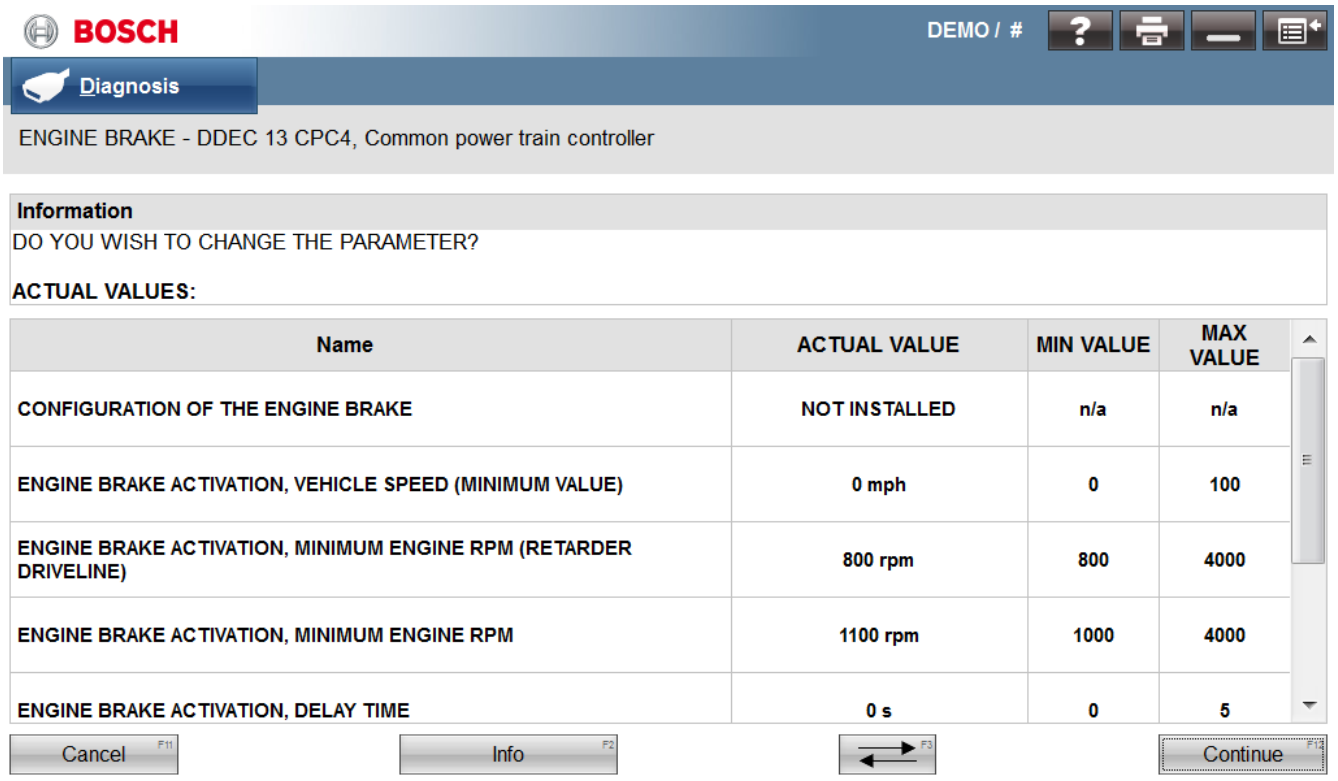
- Manual diagnosis

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



DDEC IV/DDEC V

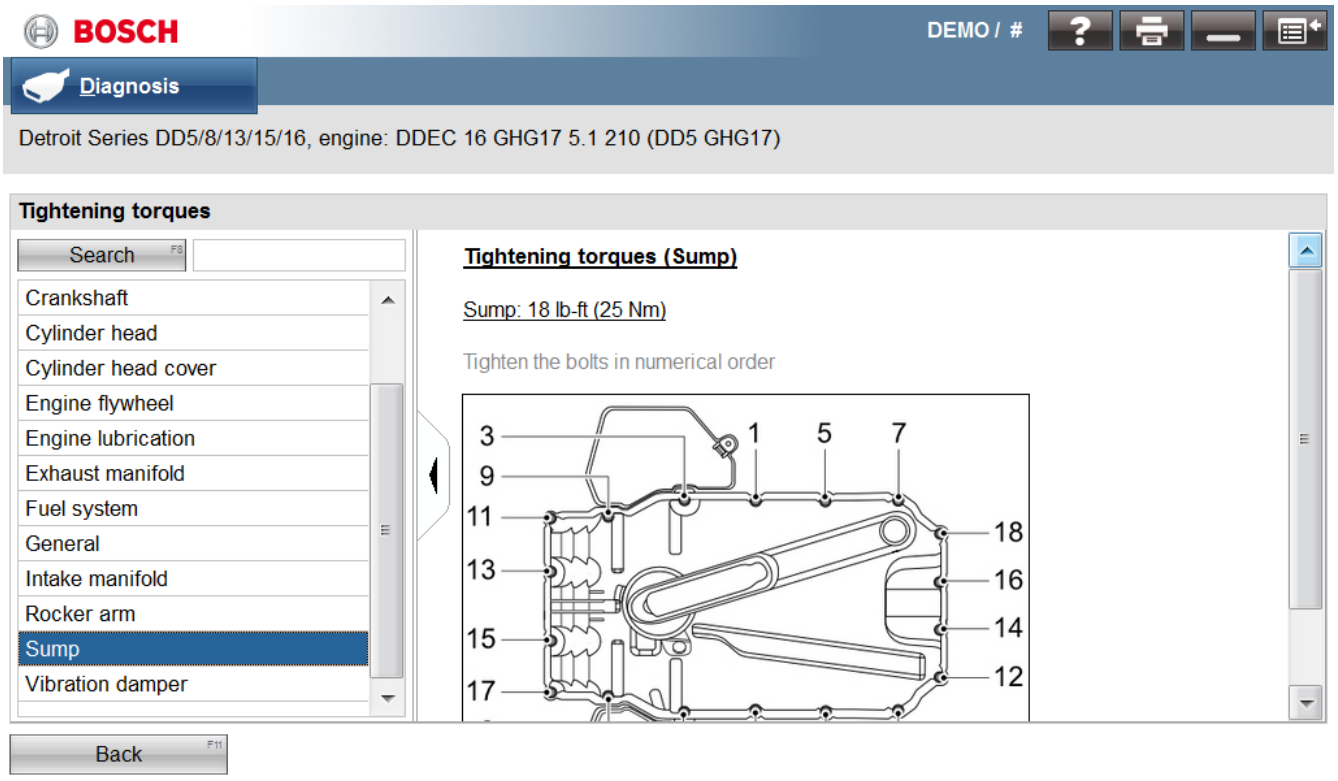
- New! Vehicle speed signal, tire size parameters

DDEC V

- New! Engine brake parameters

DDEC 16 DD5

- Vehicle Technical data
- Service data



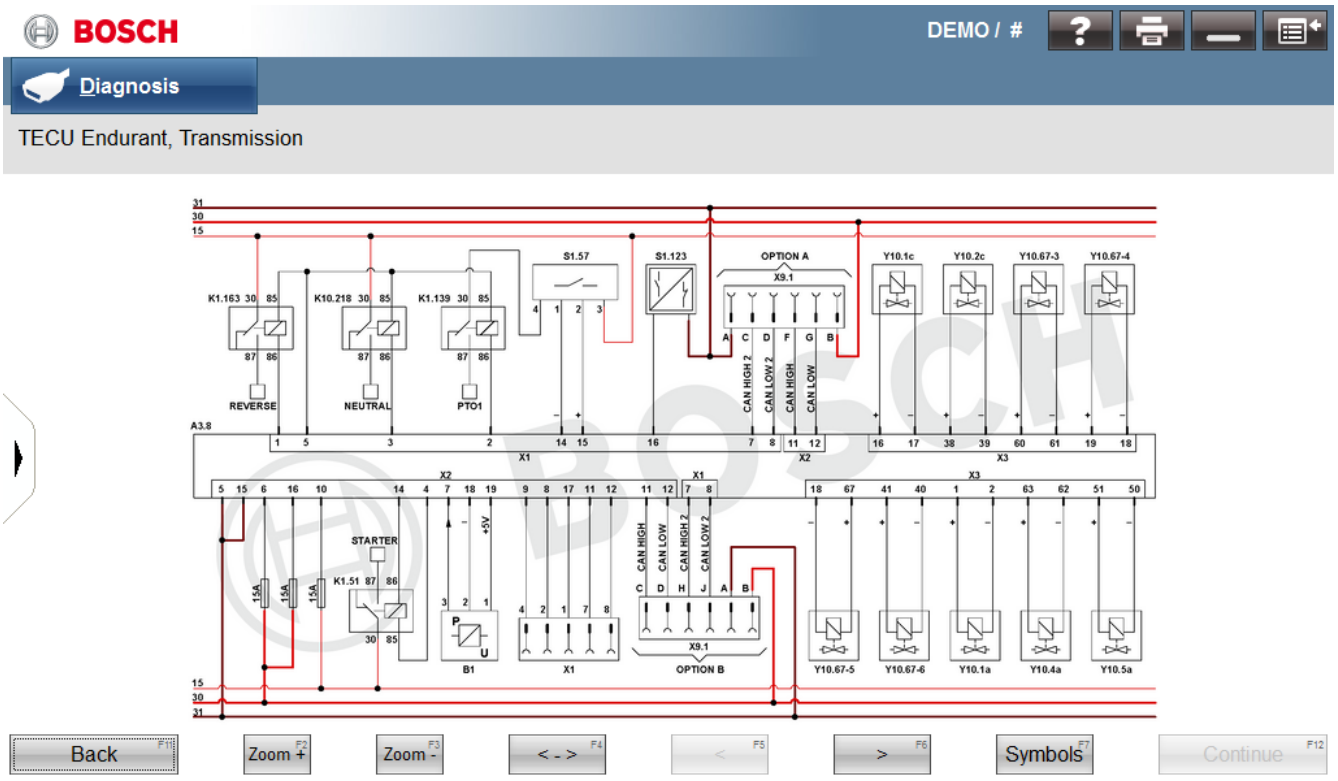
3.6 EATON

All Systems

- Manual diagnosis

Eaton Endurant

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



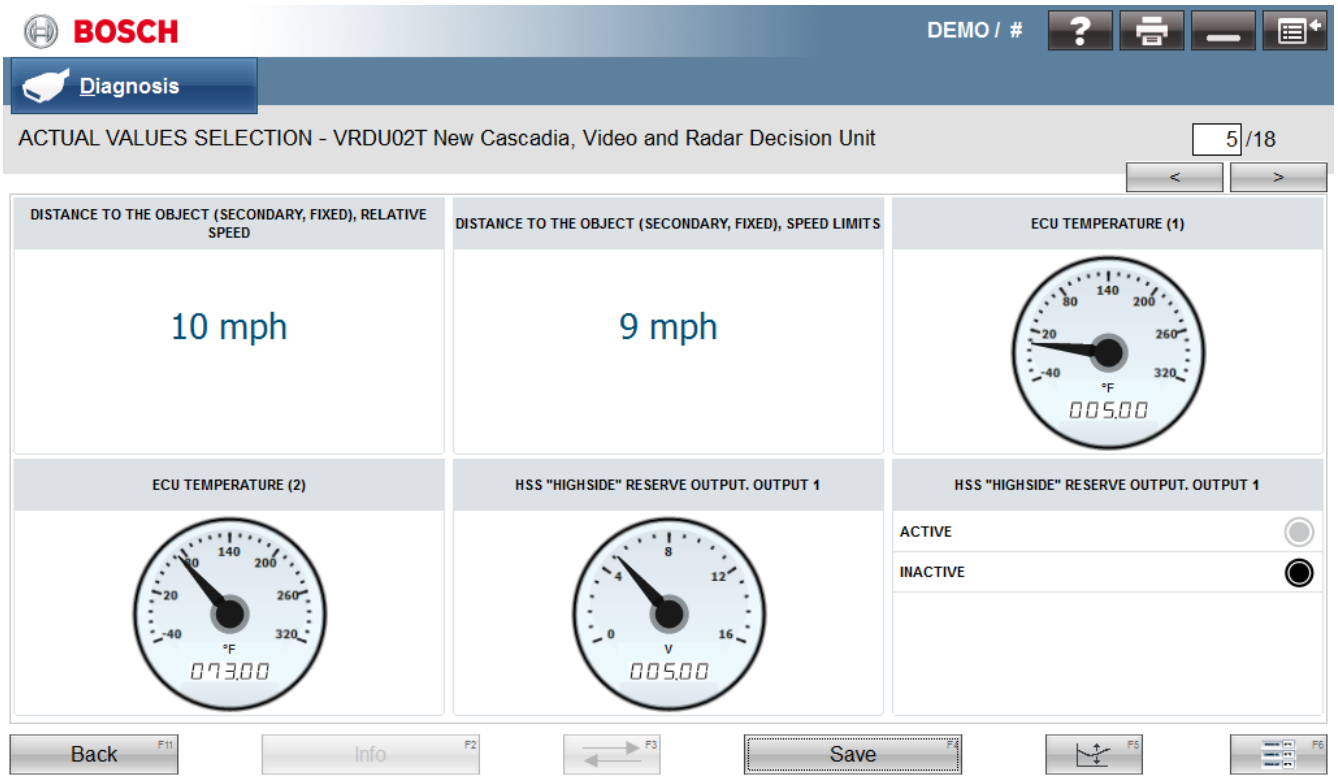
3.7 FREIGHTLINER

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

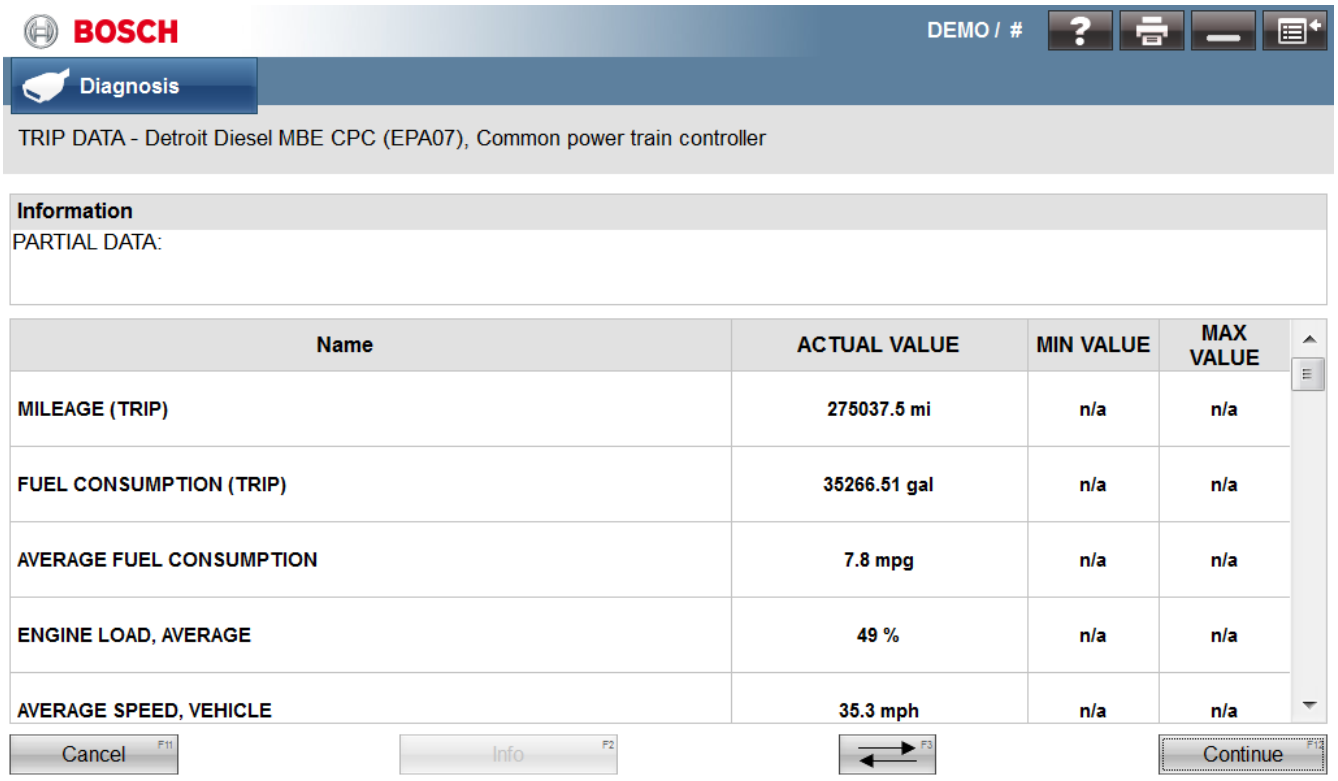
3.12 MERCEDES-BENZ

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



3.13 MERITOR WABCO

All Systems

- Manual diagnosis

3.14 NAVISTAR

Navistar N9 EPA13 (2014-2018)

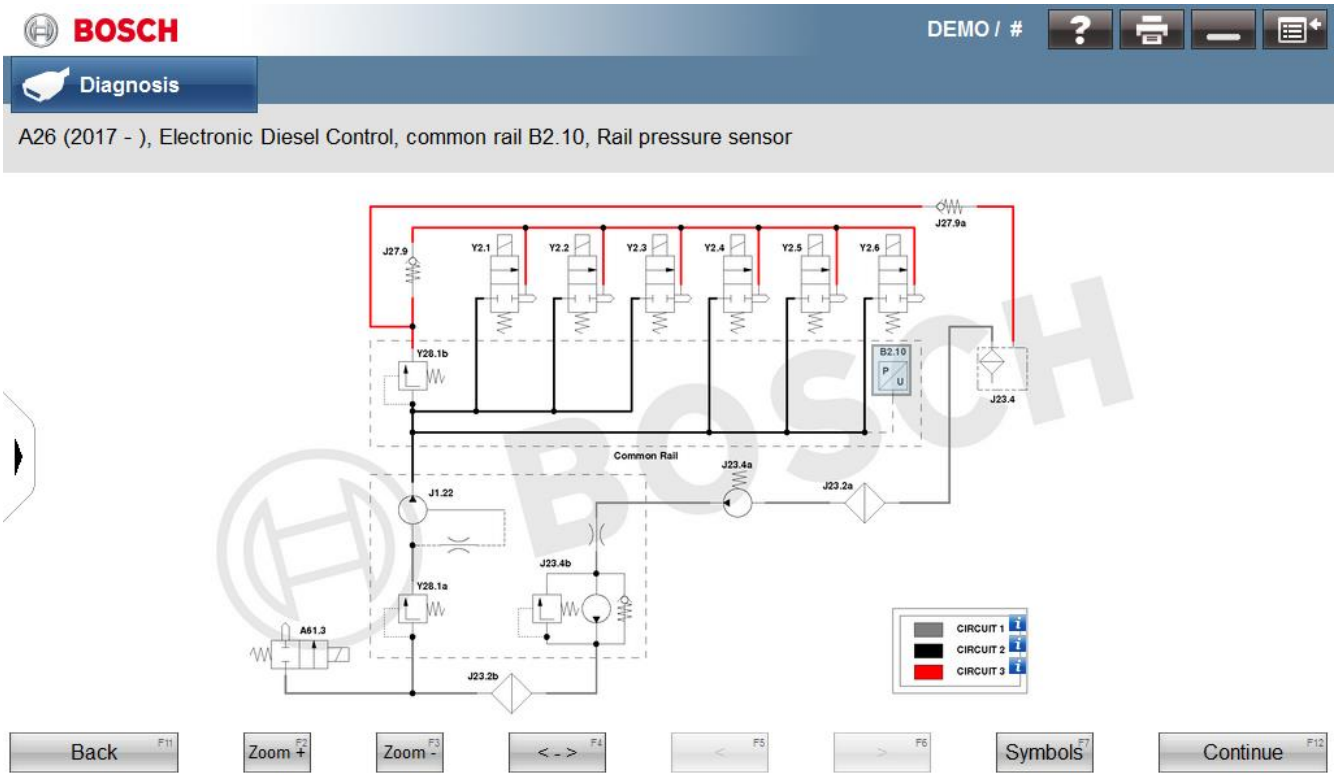
- New! Parameters modification: engine brake.
- Vehicle technical data

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

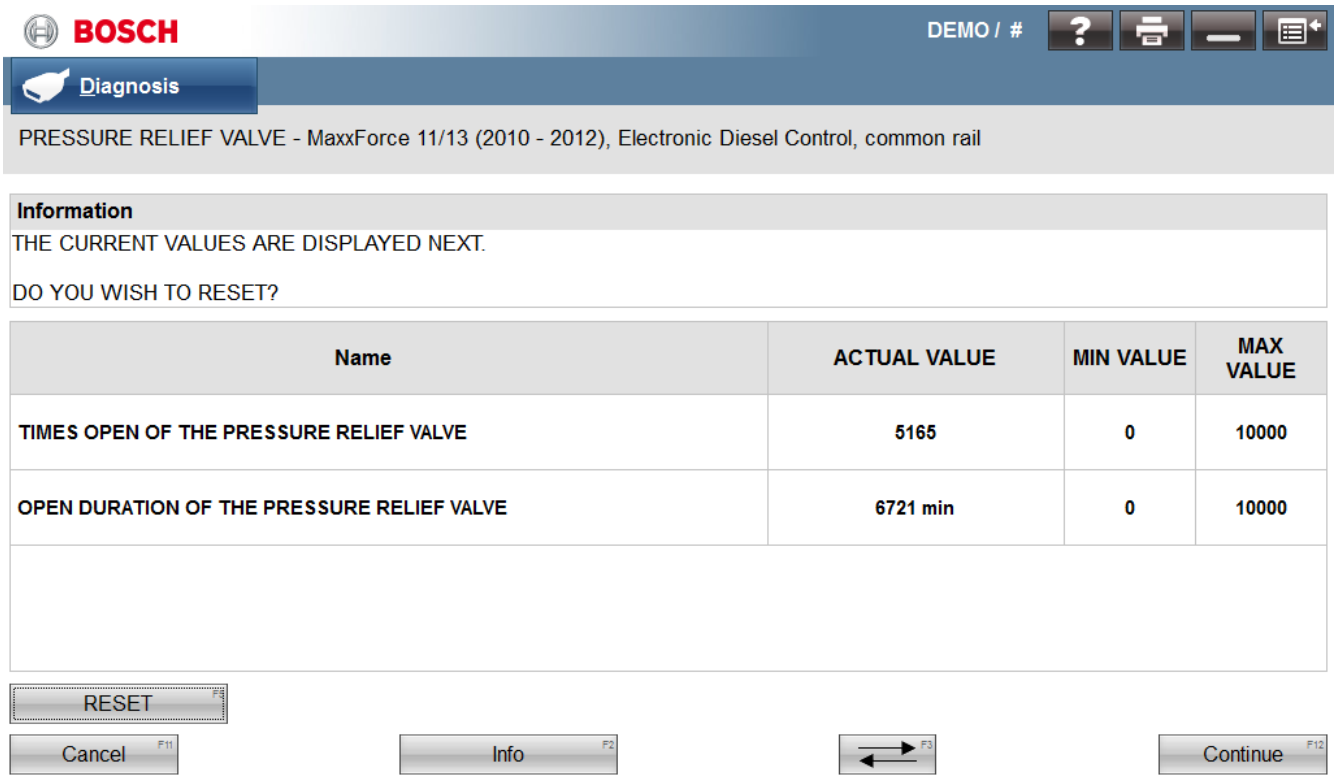
Navistar A26

- 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,



MaxxForce 13 (2013)

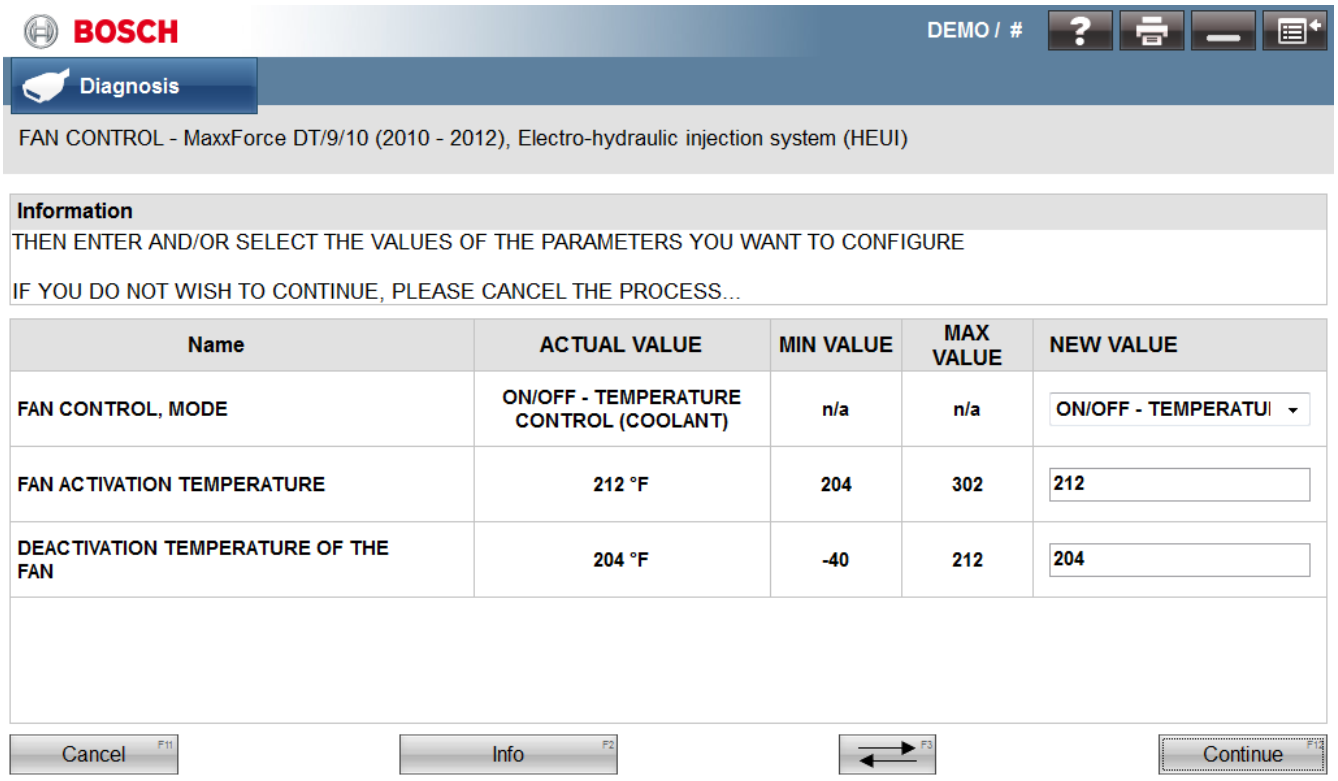
- New! Parameters modification: vehicle speed signals, engine brake
- Maintenance resets: Fuel Relief Valve

MaxxForce DT (2007-2009)

- New! Parameters modification: engine brake, PTO

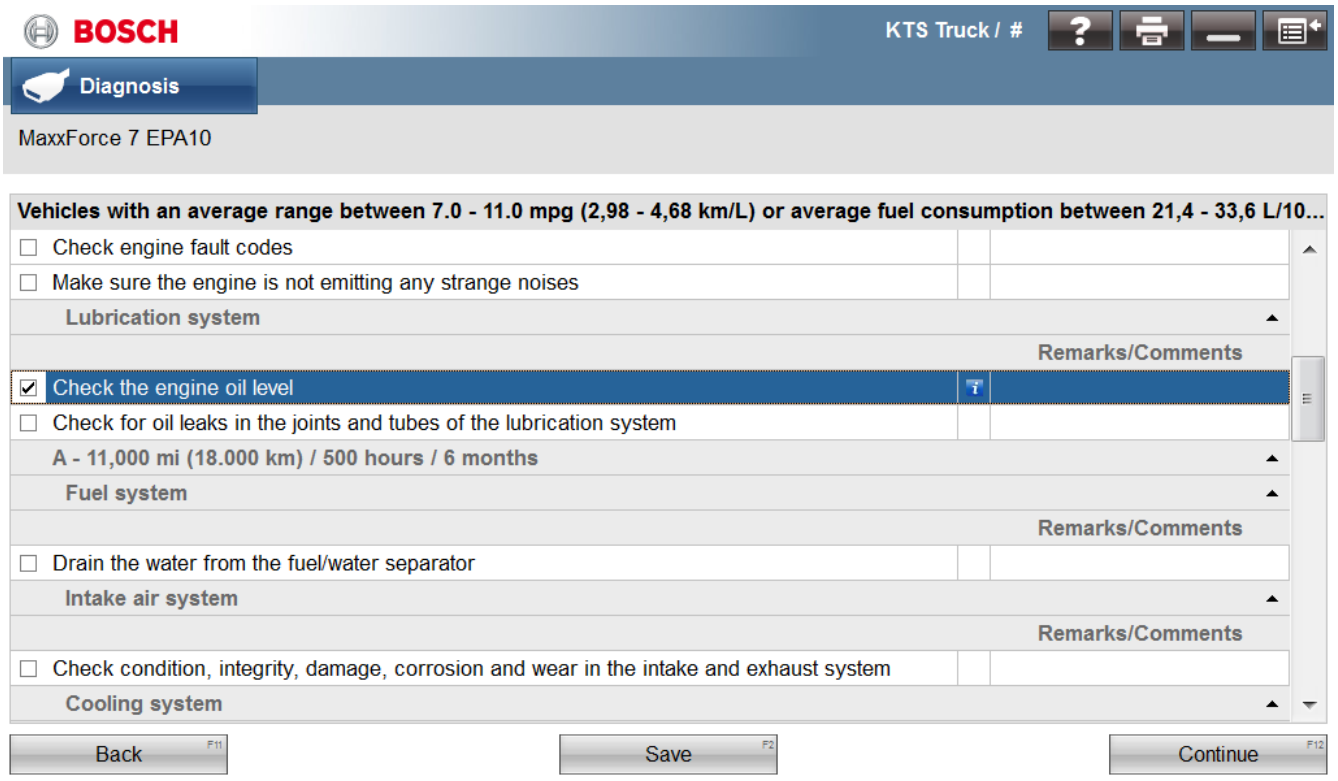
MaxxForce DT (2010-2012) / (2013)

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



MaxxForce 7 (2010 – 2012)

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



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

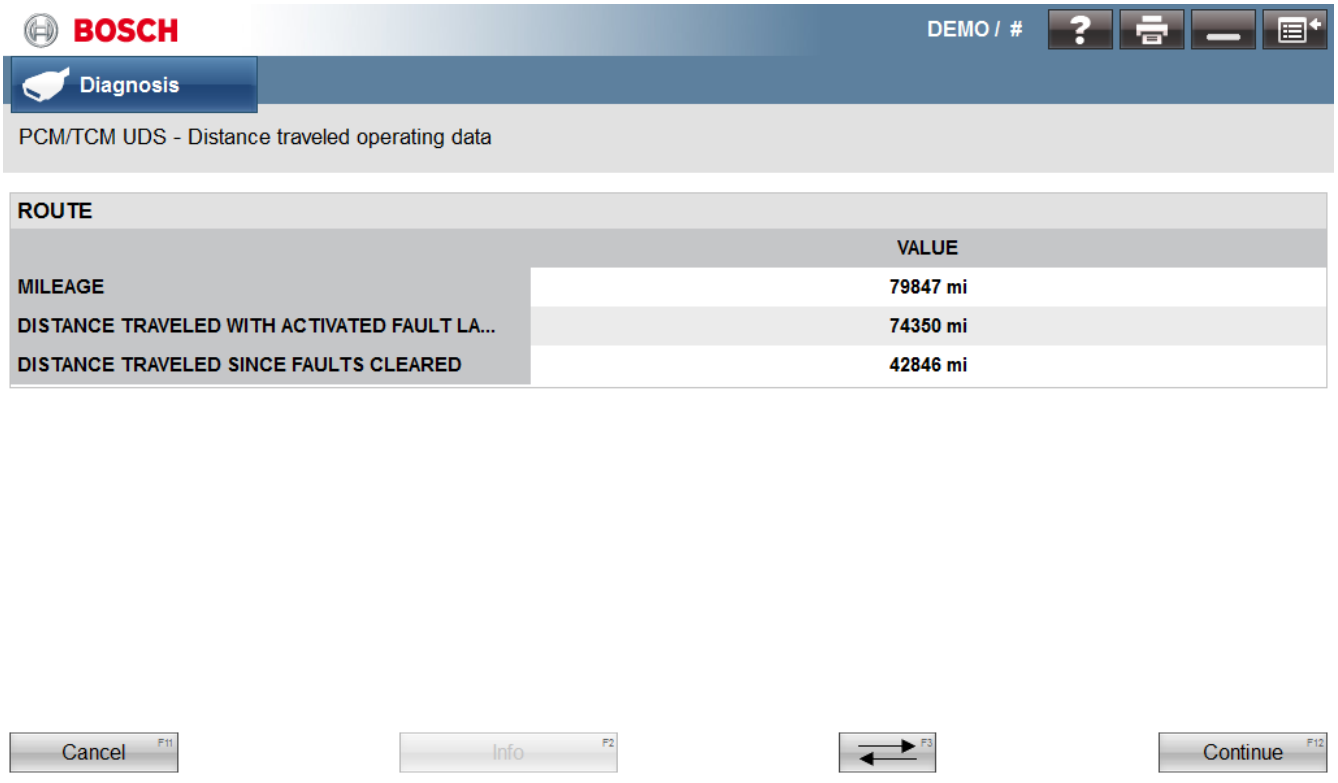
.4.

Main new functionalities by brand – LIGHT & MEDIUM DUTY

4.1 FORD

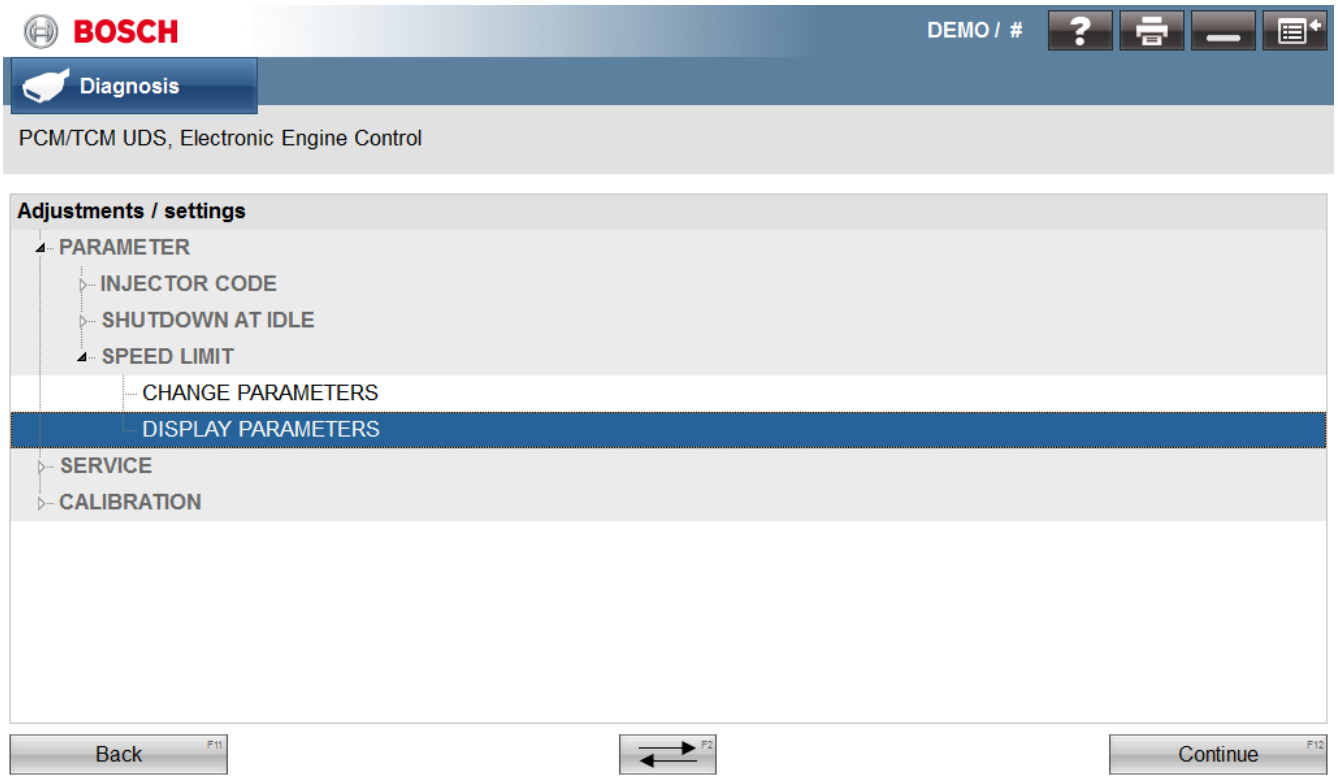
Engines: 3.2/6.7 Powerstroke and 6.2/6.8 L Gas:

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

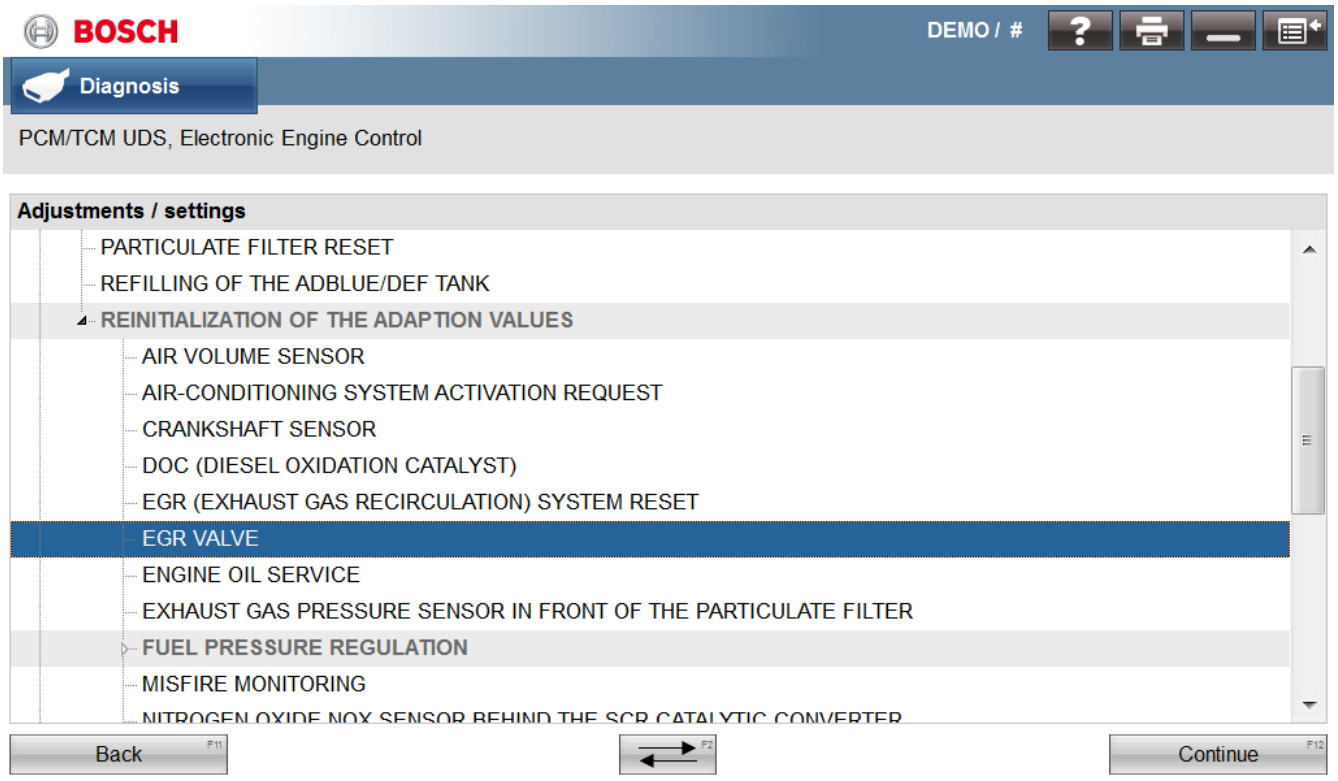


F-250/550 6.7 Powerstroke:

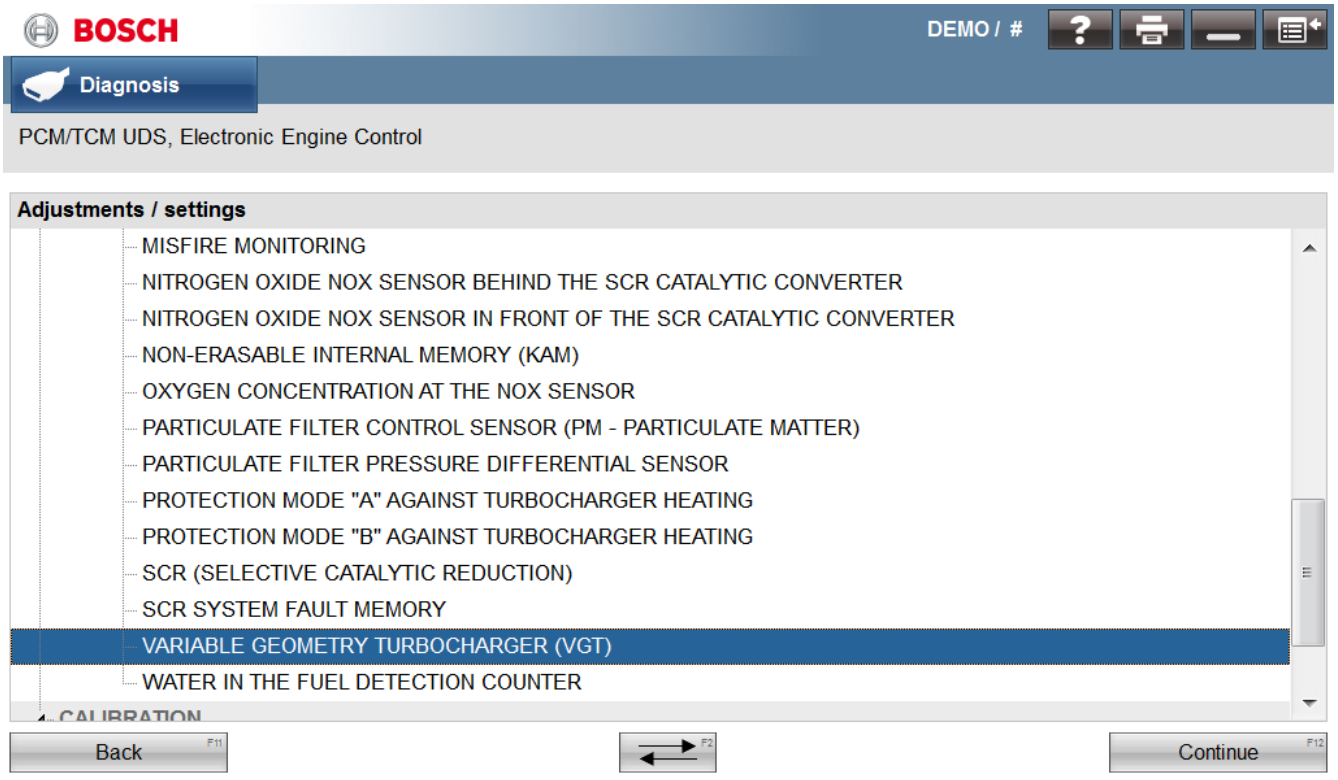
- Speed limit. 2015 – 2016.



- SCR Injector Cleaning Procedure
- Reset EGR Valve.

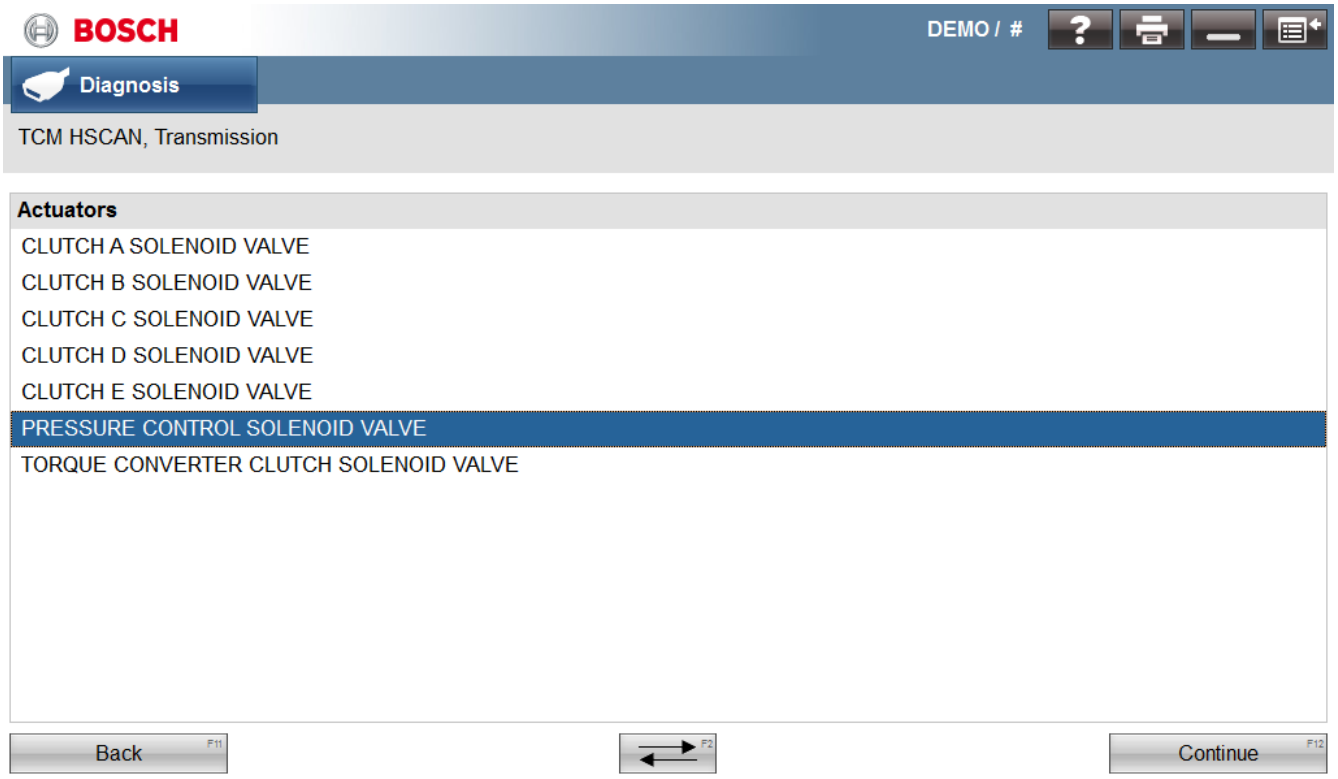


- Reset Turbo System.



TorqShift Transmission in 6.0L Powerstroke. Component Activations:

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

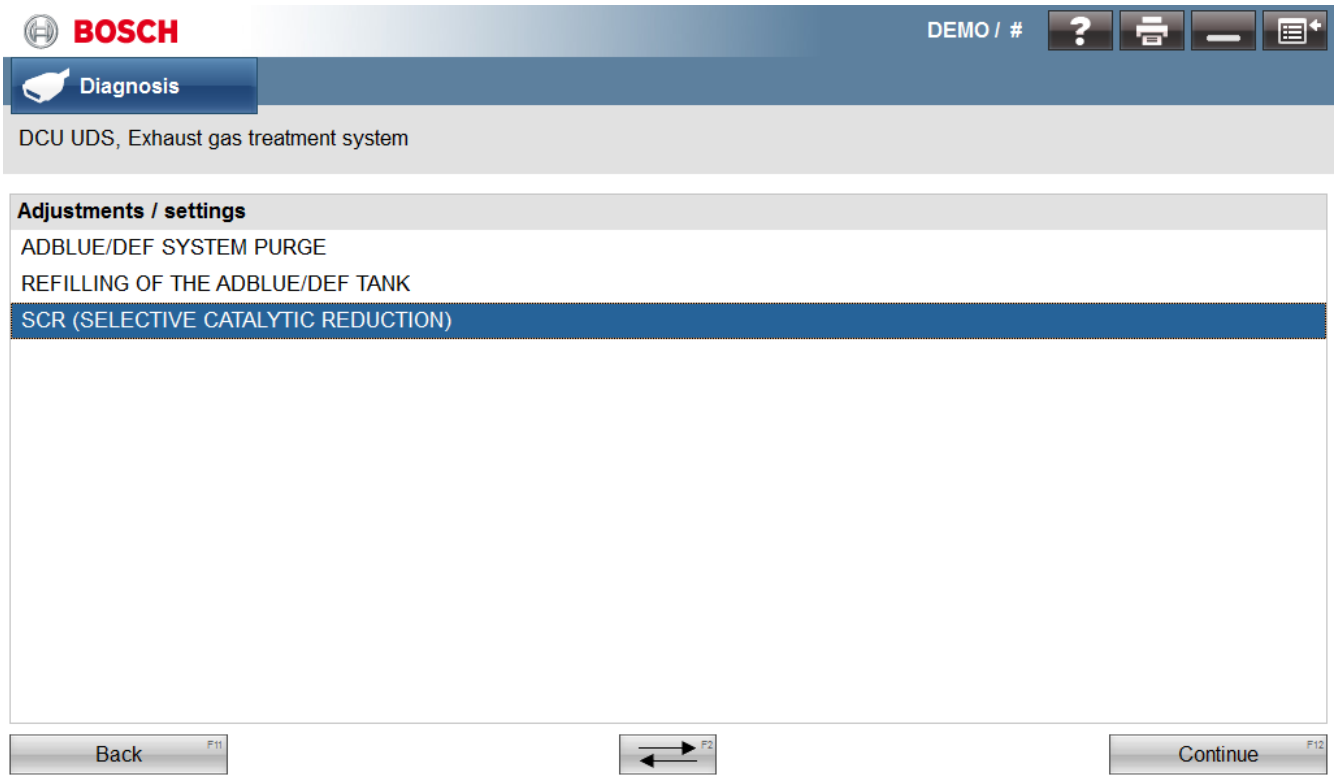


Transit T-Series 3.2L Powerstroke:

- 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.

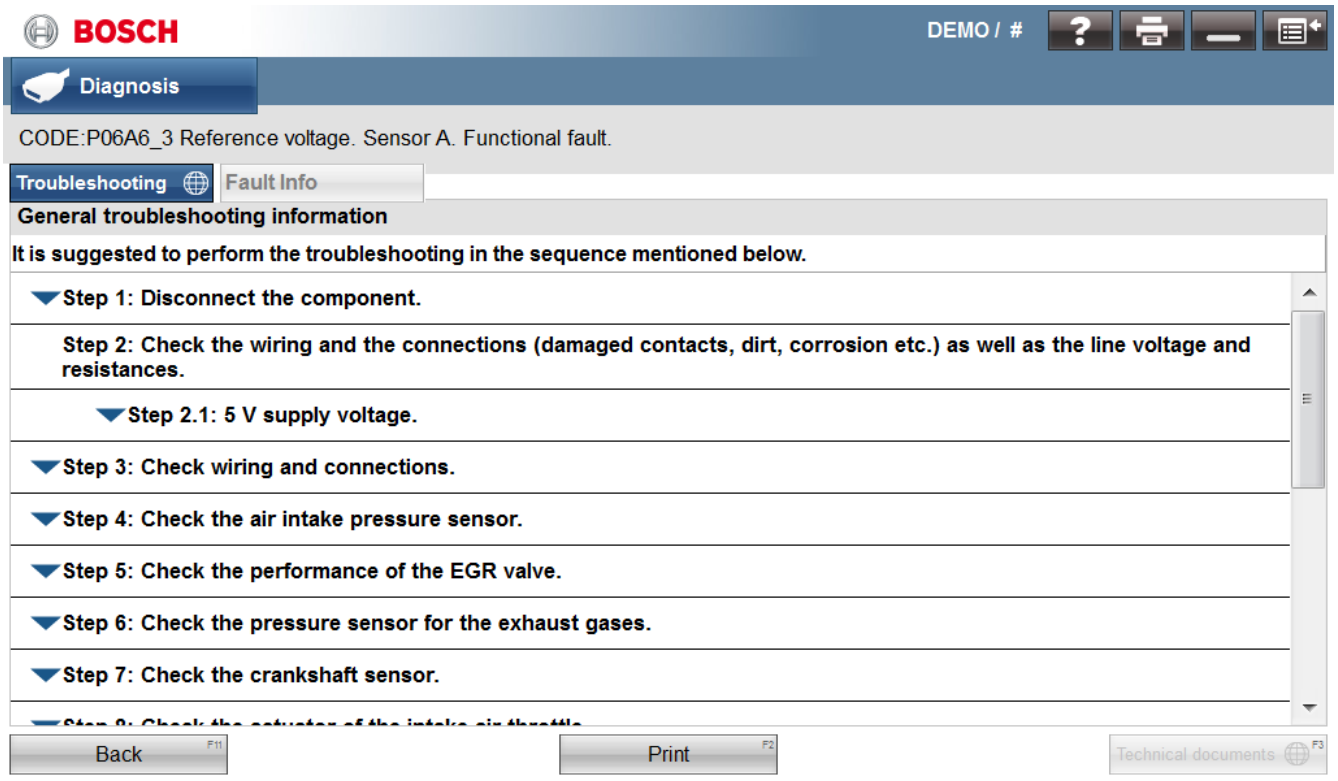


New Wiring Diagrams:

- Ford UDS BCM (Body Control Module). F-250/550; F-650/750; Transit T-Series.
- Ford UDS ABS (Anti-Lock Brake System). Transii 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.



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.

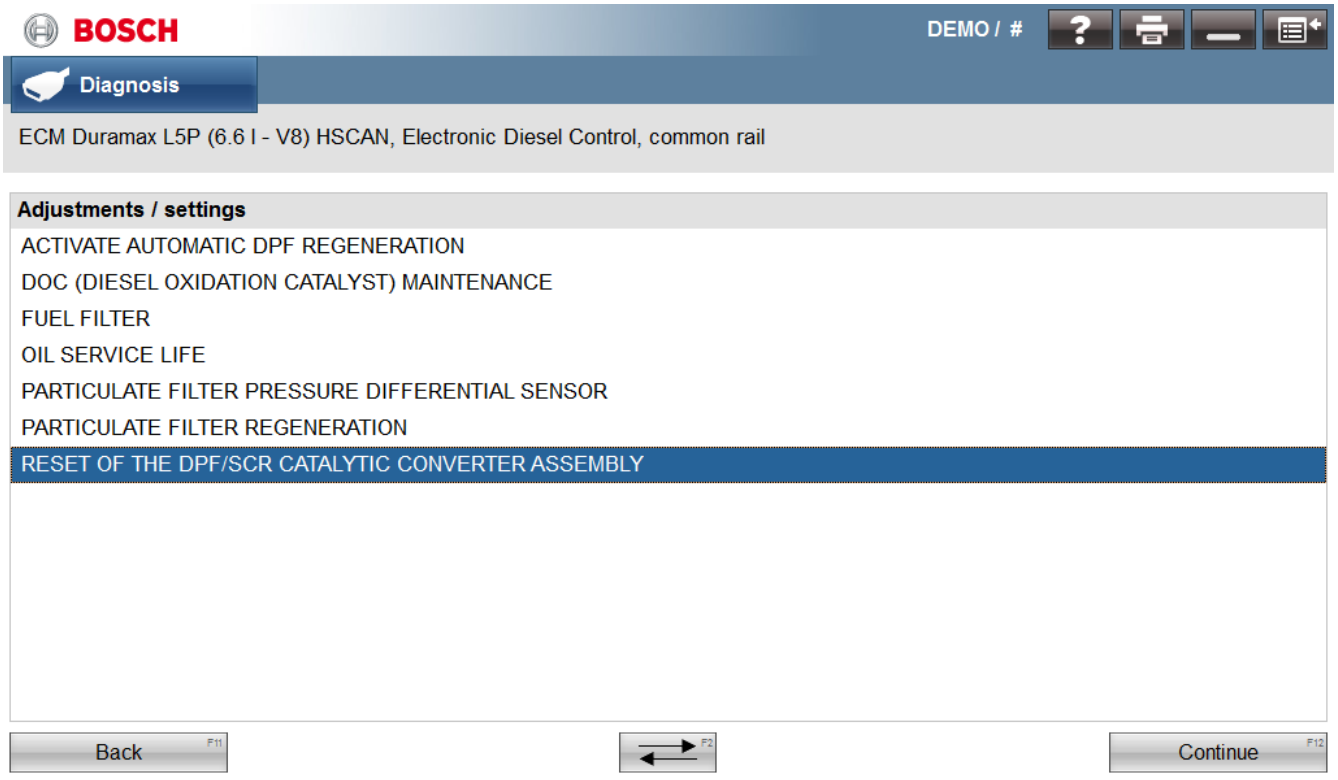
System Checkings:

- 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

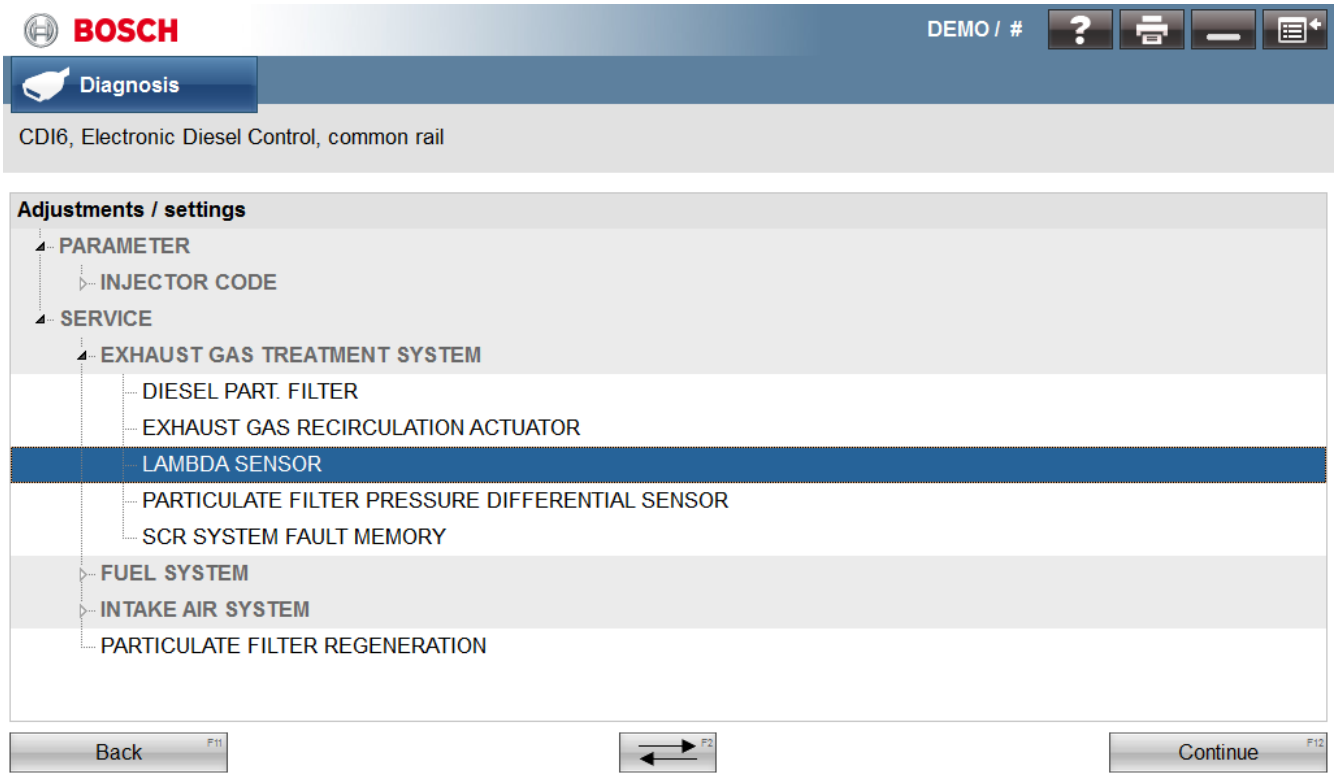
4.5 MERCEDES BENZ

Mercedes Sprinter with Engine OM651 (2013 - …)

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

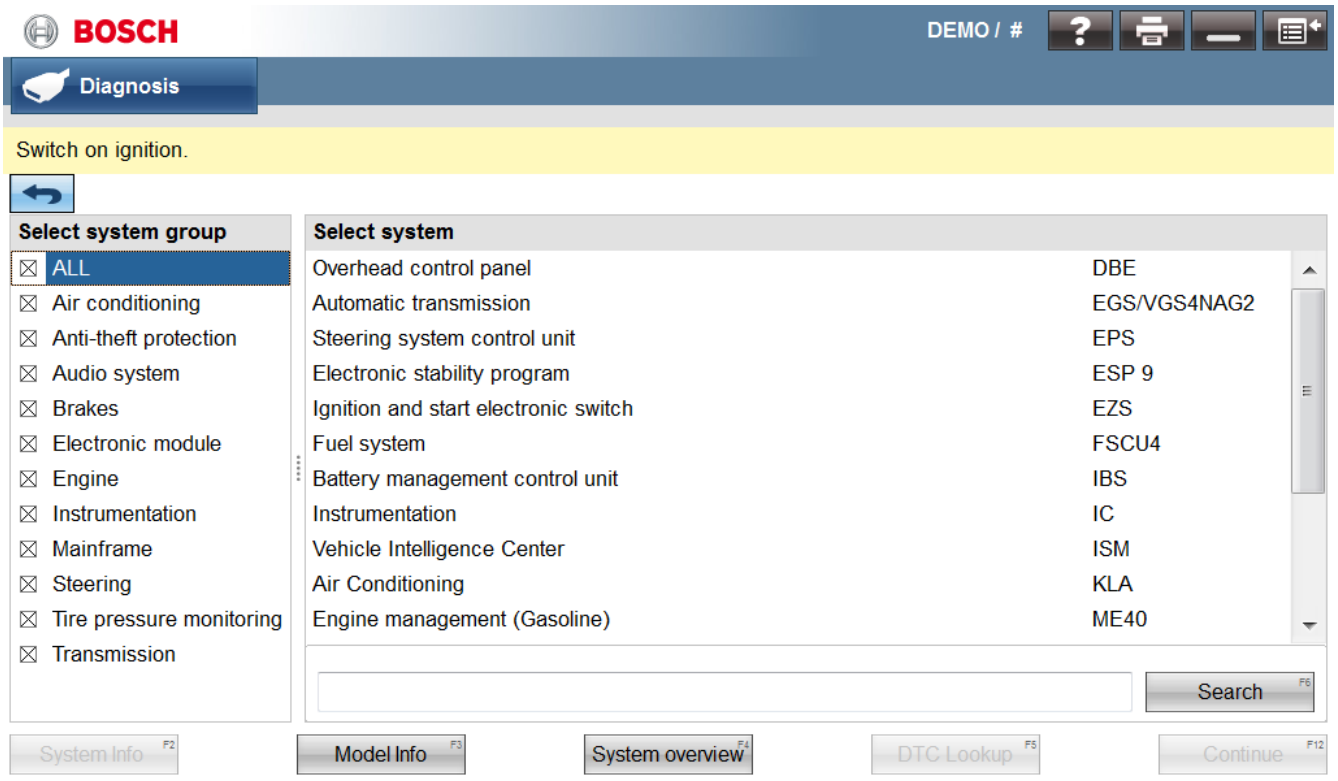
Mercedes Sprinter with Engine OM642 (2010 – 2012)

- SCR System Reset
- Temperature sensor before SCR Catalyst



New Model: **Mercedes Benz Metris:**

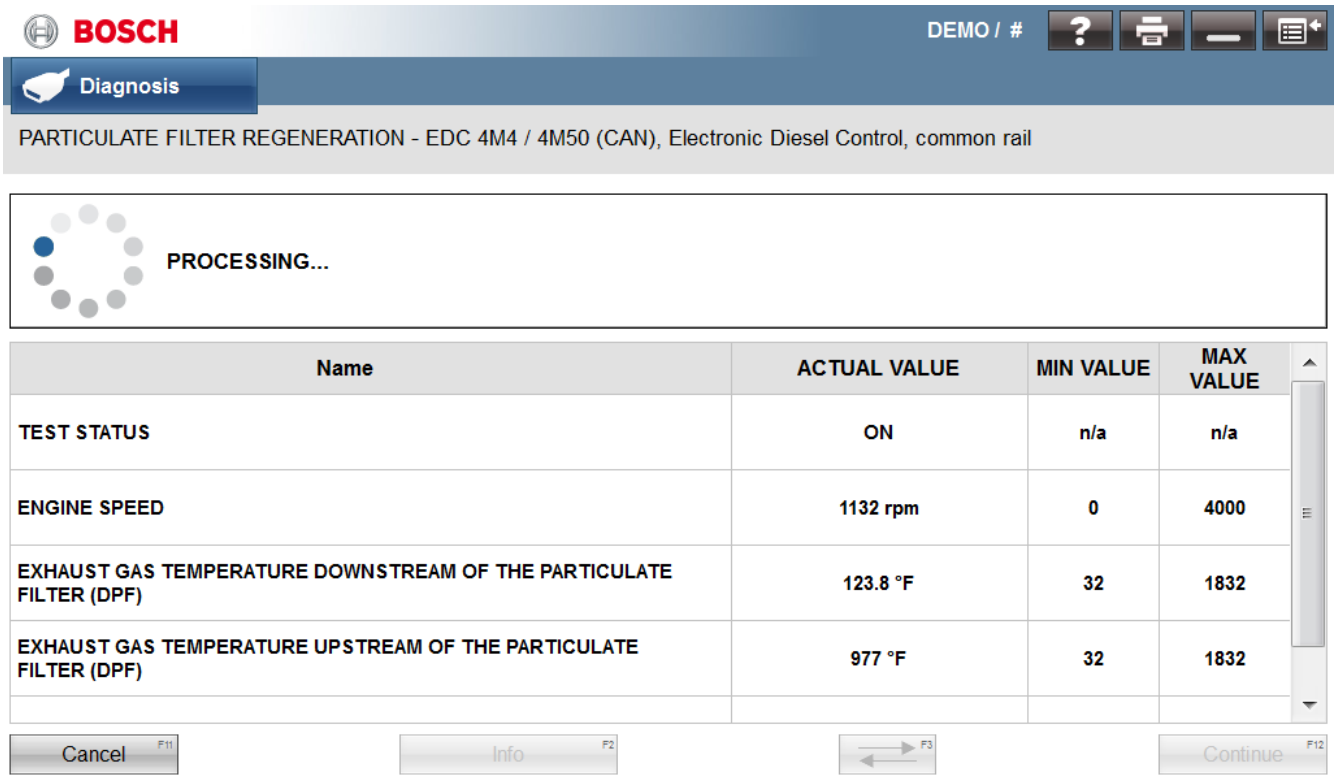
- Engine System M274: MED40. Reading Fault + Live Data.
- Electronic Ignition Lock
- EGS/VGS4NAG2
- Automatic Cab Climate
- SAM Signal Actuation Module
- Electric Power Steering
- Steering Control module
- ESP 9 LEI diagnostic system
- Instrument Cluster
- Battery Sensor
- DBE Overhead control panel
- 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



Fuso_TCM – DUONIC Control Unit

- Learning shifting process

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Main new functionalities by brand – Off-Highway

See www.boschdiagnostics.com for new coverage details.

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