



# Bosch ESI[truck] Heavy Duty Truck Software Update – Q2 2019 Ver 2019/2

Bosch ESI[truck] software release version 2019/2 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 2019/2 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 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>

## Software Updates

### New Category Filter

- In the vehicle identification process, users can now filter by selecting a vehicle category. This makes the process easier in cases where different types of vehicle make and model exist.

### Firmware Update Improvements

- The firmware update process has been improved, and is faster and even more reliable than before.

## Added Coverage - Summary

### Coverage Metrics

Updates since last software revision:

- **9** New Makes
- **366** New Models
- **1,653** New Electronic Control Systems
- **1,496** New Wiring Diagrams
- **14,692** New Fault Codes
- **3,148** New Troubleshooting by Trouble Code Procedures

### Heavy –Duty Truck Additional Coverage

New content has been added for the following Heavy Duty Brands:

- Allison
- Bendix
- Caterpillar
- Cummins
- Detroit Diesel / MBE
- Eaton
- Freightliner
- Mack
- Meritor Wabco
- Navistar
- Paccar
- PSI
- Volvo

### Trailer Additional Coverage

New content has been added for the following Trailer Brands:

- Meritor Wabco
- Vigia

### Light and Medium –Duty Truck Additional Coverage

New content has been added in the following Light and Medium-Duty (Light Commercial Vehicles) Brands:

- Dodge
- Ford
- GMC/Chevrolet
- Isuzu
- Mercedes Benz

### Off-Highway: Agricultural Vehicles Additional Coverage

New content has been added in the following Agricultural Vehicle brands:

- ISOBUS (ISO 11783) for all compatible tractors
- Claas
- Case IH
- Deutz Engines
- Deutz-Fahr
- Fendt
- John Deere
- Lamborghini
- Lindner
- Massey Ferguson
- New Holland
- Same

### Off-Highway: Construction Vehicles Additional Coverage

New content has been added in the following Construction and Off-Highway Vehicle brands:

- All models with ZF Ergopower EST-37 transmissions
- Bobcat
- Case CE
- Caterpillar
- Hidromek (new brand covered)
- Hitachi
- JCB

- JLG (new brand covered)
- John Deere
- Kramer
- Manitou
- Volvo CE
- Yanmar (new brand covered)
- ZF Transmissions

#### Off-Highway: Stationary Engines Additional Coverage

New content has been added in the following Stationary Engine brands:

- Deutz
- Hino
- VM Motori
- Volvo Penta

#### Off-Highway: Street Sweeper Additional Coverage

New content has been added in the following Street Sweeper brands:

- Hako (new brand covered)
- Johnston (new brand covered)

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# 1. NEW SOFTWARE FUNCTIONALITIES

New filter by Category in the model selection

The screenshot shows the 'Vehicle Identification' screen in the Bosch ESI[truck] software. The interface is divided into four main sections for selection:

- Select a make:** A list of manufacturers including BELARUS - MTZ, BUHLER VERSATILE, CARRARO, CASE iH, CATERPILLAR, CHALLENGER (selected), CLAAS, DEUTZ-FAHR, DIECI, ENERGREEN, FARESIN, FENDT, FRANZ KLEINE, and GREGOIRE.
- Select a model family:** A list including ALL (selected), B Series, C Series, D Series, and E Series.
- Select a category:** A list including ALL, Cereal harvester (selected), and Tractor.
- Select a model:** A list showing CH Series.

At the bottom of the screen, there are 'Back' (F11) and 'Continue' (F12) buttons, and a search bar with a 'Search' (F2) button.

In the vehicle identification process, users can filter by selecting a vehicle category. This makes the process easier in cases where different types of vehicle make and model exist. Example of cereal harvester and tractor shown above.

This filter will not show up if there are no categories to choose from.

## Firmware update

The firmware update process has been improved, and is faster and even more reliable than before.

## 2. NEW FUNCTIONALITIES BY BRAND IN HEAVY DUTY TRUCK AND BUS

### 2.1. ALLISON

More intuitive hydraulic diagrams.

3000/4000 5th Gen, Power take-off parameter adjustment. Gear shift learning and calibration.

TC10 5th Gen, maintenance services.

**BOSCH** DEMO / # ? [Icons]

Diagnosis

CHANGE PARAMETERS - 3000/4000 Series (5th Gen), Transmission management system

**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
POWER TAKE-OFF STATUS	J1939	n/a	n/a	J1939
MAXIMUM ENGINE SPEED FOR ENGAGING POWER TAKE-OFF	900 rpm	500	2600	900
MAXIMUM ENGINE RPM WITH THE POWER TAKE-OFF ACTIVATED	4000 rpm	375	5000	4000
MAXIMUM POWER TAKE-OFF SPEED, (CLUTCH)	250 rpm	50	6000	250
MAXIMUM POWER TAKE-OFF SPEED, (OPERATION)	300 rpm	60	6000	300

Cancel F11      Info F2      ←→ F3      Continue F12

### 2.2. BENDIX

Wingman Advanced, FLR21, Radar alignment.



DEMO / #

Diagnosis

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

**Information**

THE CURRENT VALUES ARE DISPLAYED NEXT.

IF IT IS NECESSARY TO CALIBRATE THE COMPONENT, MAKE THE ADJUSTMENT IN ACCORDANCE WITH THE MANUAL PROCEDURE ASSOCIATED WITH THE SYSTEM. AFTER ADJUSTING, RESET THE VALUES STORED IN THE CONTROL UNIT

Name	ACTUAL VALUE	MIN VALUE	MAX VALUE	
ADJUSTMENT CORRECTION	NOT REQUIRED, OPTIONAL: CLOCKWISE DIRECTION (3 - TURN) <span style="color: green;">●</span>	n/a	n/a	
SENSOR ALIGNMENT	0 ° <span style="color: green;">●</span>	-2	2	
OBSTACLE DETECTION SYSTEM	OFF	n/a	n/a	

RESET

SEE TECHNICAL INFORMATION F6

Cancel F11

Info F2

F3

F4

Continue F12

## 2.3. CATERPILLAR

### Parameters

- Tire size modification and vehicle speed sensor.
- Engine protection in low gears.
- Power take-off.

DEMO / #

Diagnosis

C-7 SAE J1708 (EPA04), Electro-hydraulic injection system (HEUI)

**Adjustments / settings**

- ▶ IDLING SPEED
- ▶ POWER TAKE-OFF
  - ENGINE SPEED WITH THE POWER TAKE-OFF ACTIVATED
  - FAN CONTROL WITH THE POWER TAKE-OFF ACTIVATED
  - MAXIMUM ENGINE RPM WITH THE POWER TAKE-OFF ACTIVATED
  - MAXIMUM ENGINE SPEED FOR ENGAGING POWER TAKE-OFF
  - ▶ MAXIMUM POWER TAKE-OFF SPEED TORQUE
  - MAXIMUM SPEED OF THE POWER TAKE-OFF FOR THE CABIN CONTROLS
  - MAXIMUM VEHICLE SPEED WITH THE POWER TAKE-OFF SWITCHED OFF
  - MAXIMUM VEHICLE SPEED WITH THE POWER TAKE-OFF SWITCHED ON
  - POWER TAKE-OFF CONTROL
  - SWITCH-OFF OF ENGINE AT IDLE
- ▶ VEHICLE SPEED
  - VIN CODE (VEHICLE IDENTIFICATION NUMBER)

Back F11

F2

Continue F12

EPA07 engines, maintenance services.

## 2.4. CUMMINS

Improvement of the error deletion and the MIL lamp switching off.

Engines from EPA04 onwards

Additional information to fault codes.

Engines from EPA07 onwards

Engine data and operation reset.

**Diagnosis**

DATA REGISTER - X15 CM2350, Extra-high pressure injection, common rail

**SHORT-TERM PERFORMANCE MAP 1**

	0 – 800 rpm	800 – 1200 rpm	1200 – 1600 rpm	1600 – 2000 rpm	2000 – 2400 rpm	2400 - 2800 rpm	2800 - 3000 rpm
0 - 10 %	7.96 %	6.29 %	7.14 %	4.09 %	3.9 %	0.94 %	
10 - 30 %	7.7 %	7.94 %	7.34 %	0.97 %	1.04 %	6.11 %	
30 - 50 %	0.81 %	5.26 %	0.21 %	0.39 %	7.25 %	4.61 %	
50 - 70 %	3.99 %	0.66 %	4.04 %	6.66 %	6.51 %	7.33 %	
70 - 90 %	1.82 %	8.03 %	4.66 %	7.69 %	0.19 %	3.07 %	
90 - 100 %	0.06 %	6.02 %	8.54 %	7.41 %	6.96 %	2.32 %	

Name	ACTUAL VALUE	MIN VALUE	MAX VALUE
ENGINE RUNNING, START	1140 hh:mm:ss	0	3000
ENGINE RUNNING ELAPSED TIME	216 hh:mm:ss	0	3000

Buttons: Cancel (F11), Info (F2), ←→ (F3), Continue (F12)

### B 4.5/6.7 CM2350

Status check of the DPF particulate filter.

### X15 CM2350

Password management. Engine types and maintenance services.

### ISG 10.5/11.8 CM2880

AdBlue/DEF leak test.

### ISL 8.9/9.5 CM2150 SN (Euro 4.5 - 5)

Development of parameters such as VIN, tire size, PTO.

Maintenance service parameters.

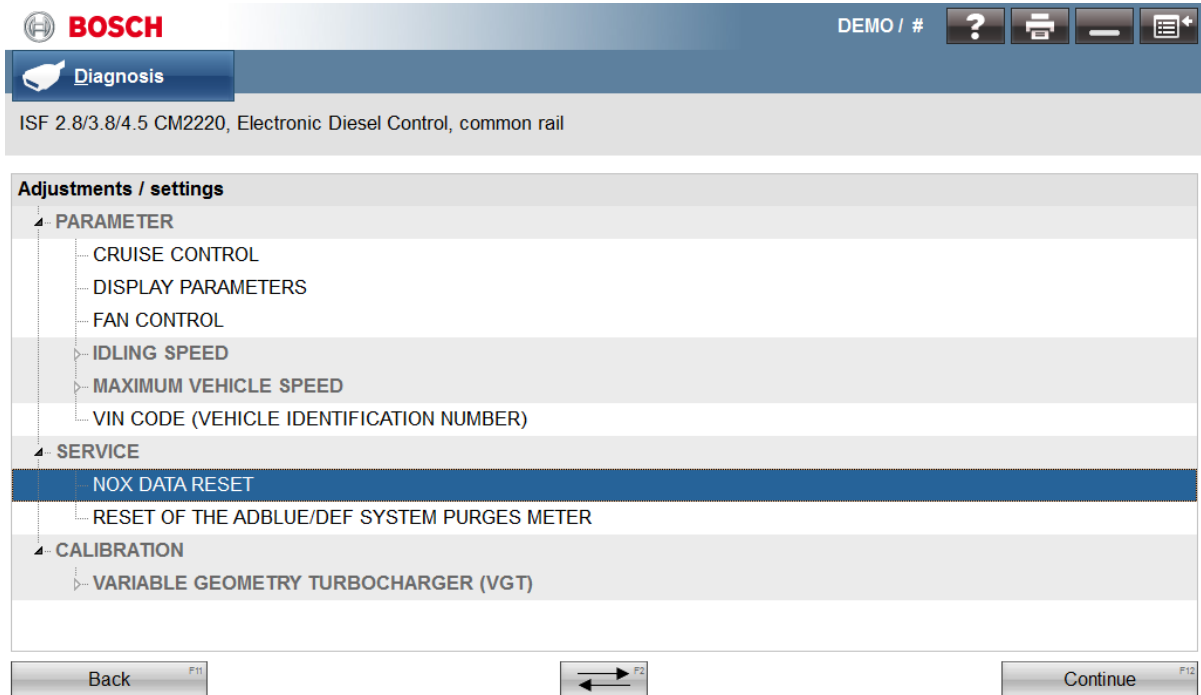
### ISM CM875

Reset of maintenance services.

Parameters: engine brake, vehicle speed source, engine protection.

### ISF 2.8/3.8/4.5 CM2220

NOx data reset.



### ISL8.9 CM850

Reset of maintenance services.

Parameters: engine brake, vehicle speed source, engine protection.

### ISB CM850

Parameters: engine brake, power take-off (PTO).

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

Parameters, vehicle speed source.

### QSF 3.8 CM2350

Intake air heater.

SAE J1939 data link control.

Aftertreatment data record.

AdBlue/DEF checks.

### QSB 4.5/6.7 CM2350 B105/B106/B112

Compatibility of the VGT (Variable Geometric Turbine) actuator.

Aftertreatment data record.

Parameters, fan control.

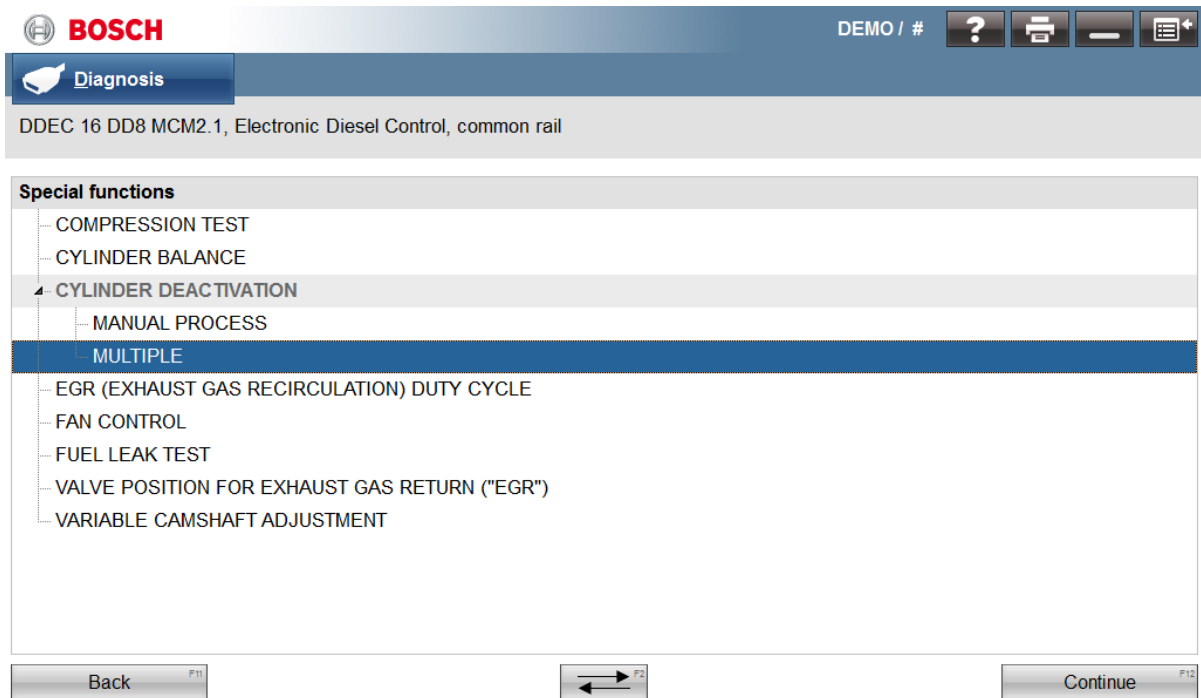
### QSB3.3 CM2150/CM2250

Parameters, idle speed.

## 2.5. DETROIT-DIESEL

DDEC 16 DD8

New coverage.



DDEC VI Series 60

Engine types.

CPC3Evo (New Cascadia).

Modification of parameters such as the cruise control, power take-off and engine protection.

CPC4 (New Cascadia)

Automatic shutdown at idle.

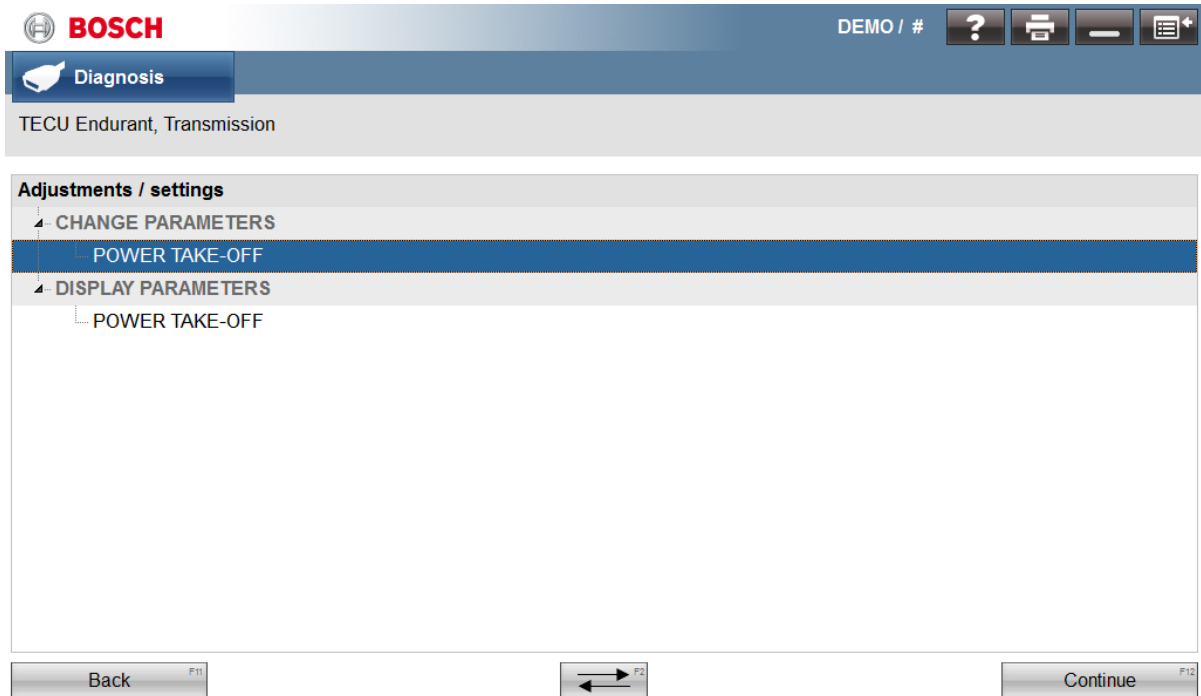
DT12

Replacement of the TCM control unit.

## 2.6. EATON

TCM Gen3 and TCM Endurant

PTO parameters and maintenance services.



## 2.7. FREIGHTLINER

New steering angle control system, SAS01T.

## 2.8. MACK

US17 engines

Engine types and maintenance services.

EMS V3

Parameters: speed limit, cruise control and idle revolutions. Exhaust gas recirculation test, injector coding for new variants, aftertreatment data record.

**BOSCH** DEMO / # ? [Print] [Back] [Home]

**Diagnosis**

IDLE SPEED - EMS, Engine Control Module

**Information**  
THE CONFIGURATION DATA ARE SHOWN NEXT.

Name	ACTUAL VALUE	MIN VALUE	MAX VALUE
IDLE SPEED, SET VALUE	--- rpm	n/a	n/a
IDLE SPEED, ALLOWED MINIMUM VALUE	--- rpm	n/a	n/a
IDLE SPEED, MAXIMUM ALLOWABLE VALUE	--- rpm	n/a	n/a

Cancel F11 Info F2 [Left/Right] F3 Continue F12

## 2.9. MERITOR WABCO

Tractor ABS

Tire size modification.

SmartTrac HABS

New system.

## 2.10. NAVISTAR

A26 engine

Injector coding, DPF Reset and parameters such as maximum speed, among others.

Maintenance services and engine types.

DLC engines

Parameters: engine brake configuration, power take-off (PTO) and vehicle speed signal (tire size).

MaxxForce engines

Parameters: vehicle speed signal (tire size).

Name	ACTUAL VALUE	MIN VALUE	MAX VALUE
"TWO-SPEED AXLE" SWITCH STATUS	ENABLED	n/a	n/a
TIRE SIZE	507 rev/mi	300	600
REAR AXLE, TRANSMISSION RATIO (MINIMUM VALUE)	3.36	0	20
REAR AXLE, TRANSMISSION RATIO (MAXIMUM VALUE)	3.36	0	20
TRANSMISSION RATIO IN TOP GEAR	0.74	0	20

N SCR engines

Engine brake parameters.

## 2.11. PACCAR

Troubleshooting guides for fault codes.

GHG17 engines

Maintenance services and engine types.

The screenshot shows the Bosch ESI software interface. At the top, there is a header with the Bosch logo, the text 'DEMO / #', and several icons (help, print, zoom, list). Below the header is a 'Diagnosis' button. The main content area displays 'Paccar, engine: MX, PR 12.9 430 (MX-13) GHG17'. A 'Tightening torques' section is active, featuring a search bar and a list of engine components. The 'Air compressor' component is selected, and a detailed view of 'Air compressor fixing screws' is shown, including a photograph of the component with four numbered callouts (1, 2, 3, 4) indicating specific screw locations. A 'Back' button is located at the bottom left of the interface.

PCI KWP2000

Injector coding, configuration of the idle speed, the speed limit and the cruise control for new variants.  
Engine brake test.

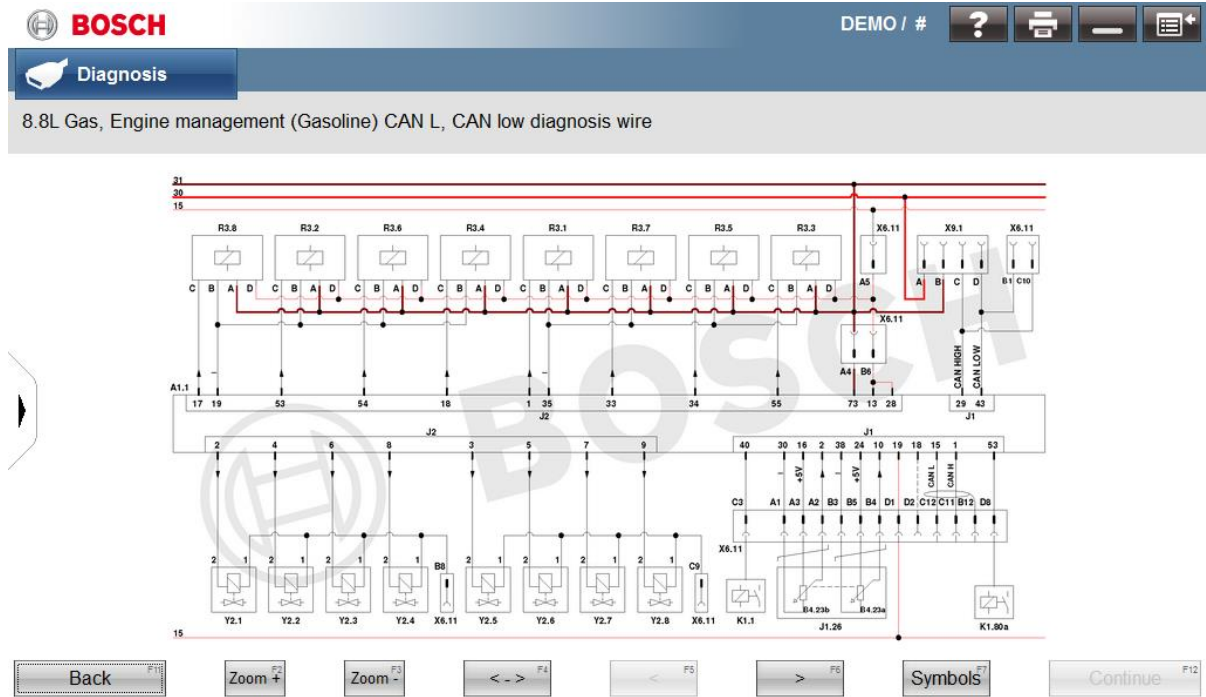
Disabling of the power reduction caused by EGR and AdBlue/DEF failures.

The screenshot shows the Bosch ESI software interface for a specific procedure. The header includes the Bosch logo, 'DEMO / #', and navigation icons. Below the header is a 'Diagnosis' button. The main content area displays the title 'DISABLE EGR POWER REDUCTION - MX PCI (EPA 13/GHG14/Euro 6), Diesel injection control, common rail'. An 'Information' section contains the following text: 'If the error P1496 has been active for 10 hours, the error P1495 activates, causing a reduction in power. To disable the power reduction, resolve the error P1496 and perform this procedure.' At the bottom of the interface, there are 'Cancel' and 'Continue' buttons.



## 2.12. PSI

New 8.8 gasoline system, technical information, wiring diagram.



## 2.13. VOLVO

US17 engines

Maintenance services and engine types.

EMS V3

Parameters: speed limit, cruise control and idle revolutions. Exhaust gas recirculation test, injector coding for new variants, aftertreatment data record.



DEMO / #



Diagnosis

EXHAUST GAS DIFFERENTIAL PRESSURE ON THE PARTICULATE FILTER - EMS V3, Engine Control Module

DATA REGISTER

	DIFERENTIAL PRESSURE	ELAPSED TIME
RANGE 1	[ 0 - 3 ] kPa	4373.46 h
RANGE 2	[ 3 - 6 ] kPa	209.18 h
RANGE 3	[ 6 - 9 ] kPa	0.20 h
RANGE 4	[ 9 - 12 ] kPa	0 h
RANGE 5	[ 12 - 18 ] kPa	736.46 h
RANGE 6	[ 18 - 21 ] kPa	20.65 h
RANGE 7	[ 21 - 24 ] kPa	0.65 h
RANGE 8	[ 24 - 27 ] kPa	0.21 h
RANGE 9	[ 27 - 32 ] kPa	0.28 h
RANGE 10	> 32 kPa	0.11 h

METRIC UNITS

IMPERIAL SYSTEM UNITS

Cancel F11

Info F2



Continue F12

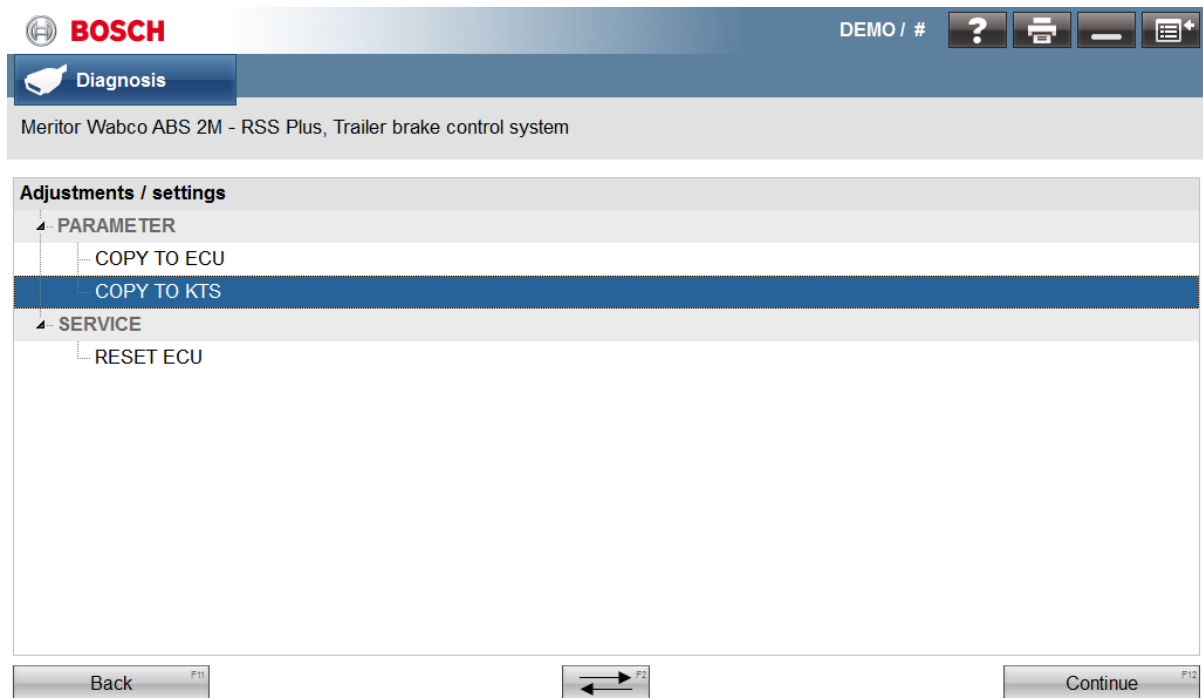
## 3. NEW FUNCTIONALITIES BY BRAND IN TRAILER

### 3.1. MERITOR WABCO

Trailer ABS 2M with RSS Plus

Control unit replacement.

System Display.



### 3.2. VIGIA

New systems (only with technical information) with wiring diagrams and tire pressure calibration procedures.

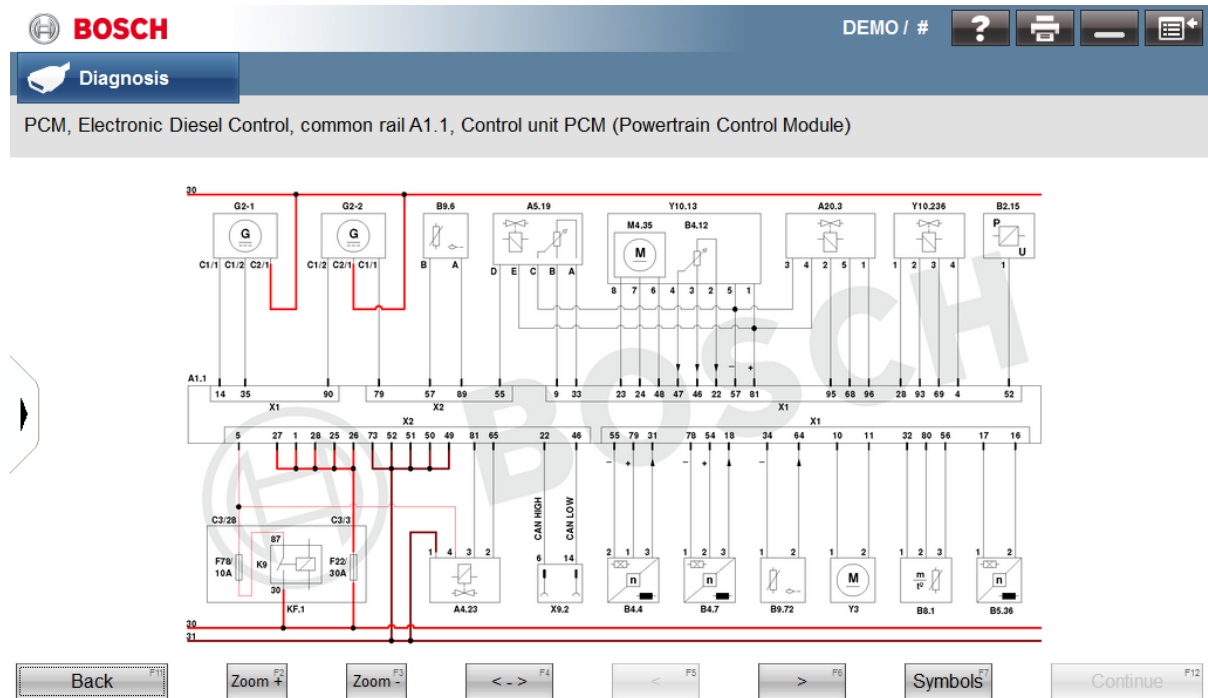
# 4. NEW FUNCTIONALITIES BY BRAND IN LIGHT COMMERCIAL VEHICLES (LCV)

## 4.1. DODGE

Ram 2500-5500 with Cummins 6.7 engine [2013-2017]

Coverage in the engine management system (DPF reset, activations) and wiring diagrams.

New ABS brake systems and IPC instrumentation.



## 4.2. FORD

F-250-550 6.7 PowerStroke 2017 & 2018

Parameter: maximum vehicle speed, reset of the DPF differential pressure sensor and IVD reset (ABS).

**BOSCH** DEMO / # ? [Print] [Back] [Home]

**Diagnosis**

CHANGE - PCM/TCM UDS, Electronic Engine Control

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

Name	ACTUAL VALUE	MIN VALUE	MAX VALUE	NEW VALUE
SPEED LIMIT	WITHOUT LIMIT	n/a	n/a	WITHOUT LIMIT WITHOUT LIMIT 65 MPH 70 MPH 75 MPH

Cancel F11      Info F2      ← F3 →      Continue F12

F-250-550 6.8 Gas

Cylinders balance and vehicle data learning.

F-250-550 6.2 Gas

ABS activations and IVD (Interactive Vehicle Dynamics) reset.

Transit 3,2 Diesel

Vehicle data learning and IVD (Interactive Vehicle Dynamics) reset.

### 4.3. GMC/CHEVROLET

Sierra/Silverado

EBCM brake system, component activation.

**BOSCH** DEMO / # ? [Icons]

**Diagnosis**

ENGINE PROTECTION - ECM Duramax LLY (6.6 I - V8) SAE J1850 VPW, Electronic Diesel Control, common rail

**Information**  
SELECT OPTION

Name	ACTUAL VALUE	MIN VALUE	MAX VALUE
ENGINE PROTECTION SYSTEM (ENGINE SHUTOFF), STATUS	ACTIVATED	n/a	n/a
ENGINE PROTECTION FROM FAULTY OIL PRESSURES, COUNTER	3	0	100
ENGINE PROTECTION FROM FAULTY OIL PRESSURES, ODOMETER	74564.543 mi	0	622
ENGINE TEMPERATURE PROTECTION (UPPER), COUNTER	8	0	1000

L83 5.3 & L18 8.1, V8 engines

New system with functions such as oil maintenance, reset of idle values and fuel injection (Fuel Trim), besides the reset of the O2/Lambda sensor.

LLY (6.6 Duramax) VPW engines

Engine protection parameters.

## 4.4. ISUZU

TCM Smoother K Line transmission – Option B in the N-Series/F-Series models

New parameters, such as settings of the power take-off, gear ratio and tire size.

6HK1-TC (K Line) engine

Regeneration and reset of the DPF particulate filter.

The screenshot shows the Bosch ESI software interface. At the top left is the Bosch logo. To its right, it says 'DEMO / #' followed by icons for help, print, and navigation. Below this is a 'Diagnosis' button. The main content area displays the vehicle information: '6HK1-TC (K Line), Electronic Diesel Control, common rail'. Underneath is a section titled 'Adjustments / settings' with a tree view containing 'PARAMETER', 'DISPLAY PARAMETERS', and 'SERVICE'. The 'SERVICE' option is expanded, showing 'PARTICULATE FILTER REGENERATION' and 'RESET ALL DIESEL PARTICULATE ACTIVE REDUCTION STATUS'. At the bottom of the screen are three buttons: 'Back' (F11), a navigation arrow (F12), and 'Continue' (F12).

## 4.5. MERCEDES-BENZ

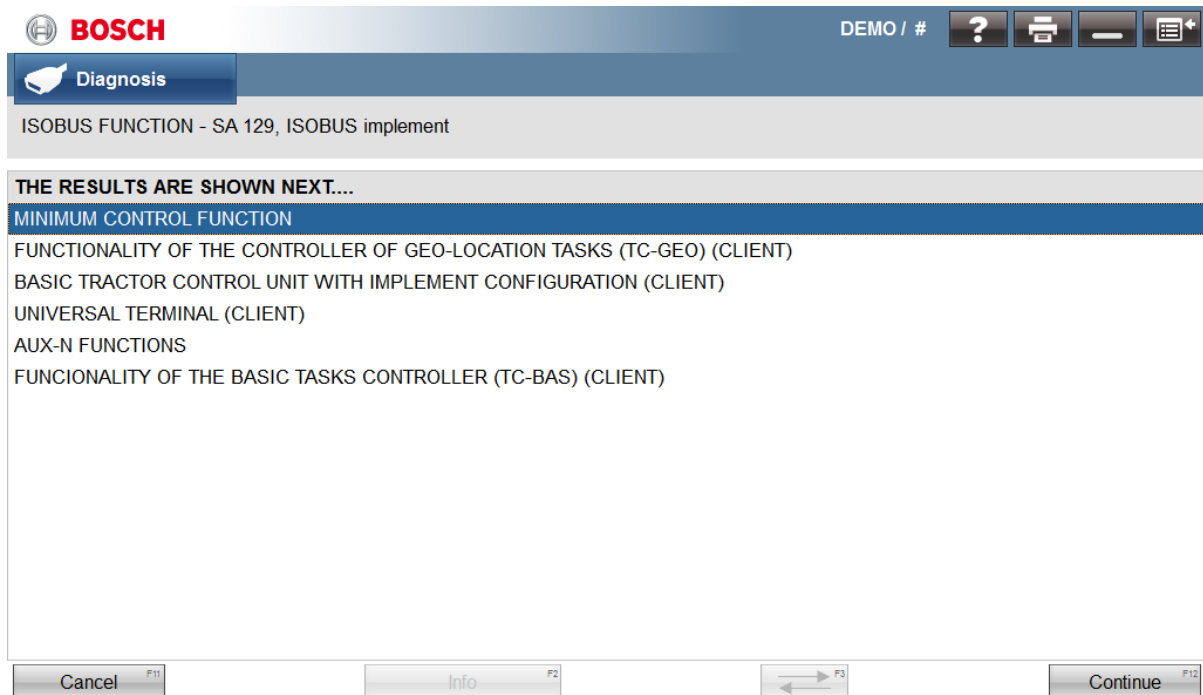
CDID3

Fuel pump activation.

# 5. NEW FUNCTIONALITIES BY BRAND IN OFF-HIGHWAY AGRICULTURAL VEHICLES

## 5.1. ISOBUS (11783)

New functionality test.



## 5.2. CLAAS

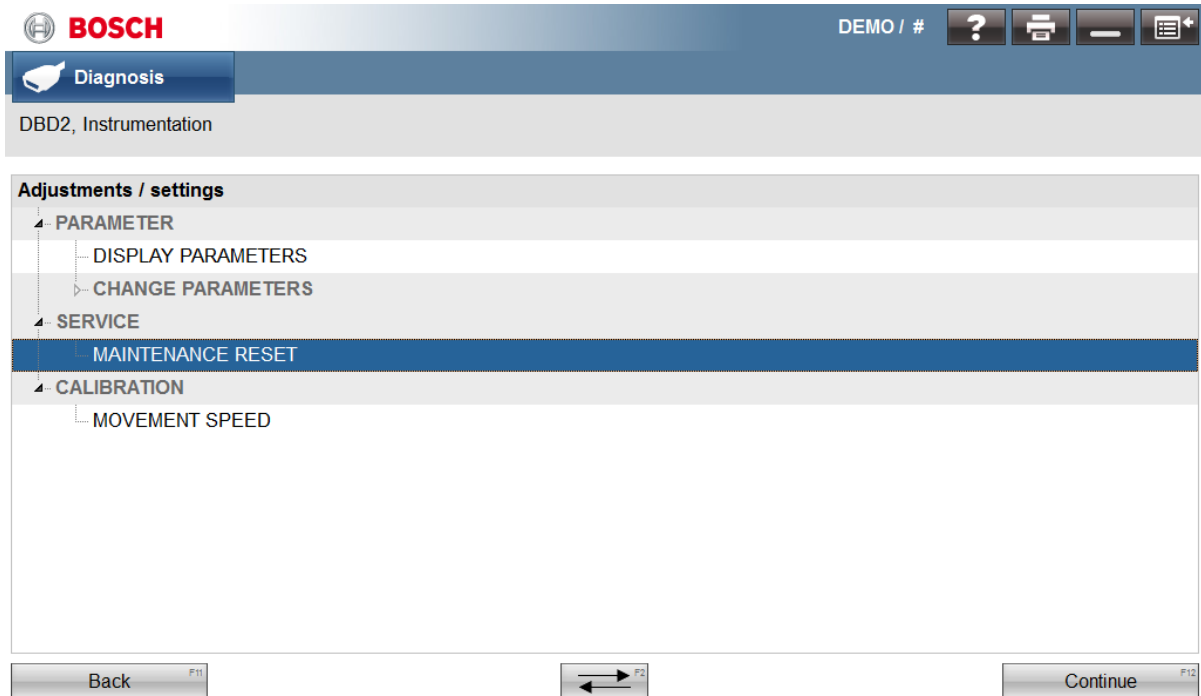
### Lexion models

Programming and calibration of the product yield sensors, installation of a new sensor and reset of a sensor acquired as spare part. Wiring diagram configurations for the EHS, SAM, OPM, ATP and YMM systems in Lexion and Tucano Series harvester models, as well as the OPM, ATP and SBM systems in Jaguar Series models.

### Ares, Atlas, Arion and Axion models

Maintenance reset.





### 5.3. CASE iH

New models, Case iH Optum Final Tier 4, Case iH Luxxum, Case iH Magnum (180, 200, 220, 240) Final Tier 4.

New regulation interface system of the ENG motor for the models Steiger, Puma, MXU, Maxxum, Magnum and Axial-Flow.

### 5.4. DEUTZ Engines

EMR4 engine management systems, service regeneration for CRT models in the EDC 17 CV52 system; injector coding, reset of the rail pressure regulation valve and much more in the EDC 17 CV54 system.

### 5.5. DEUTZ-FAHR

New harvester models that include advanced diagnosis operations and wiring diagram configurations in different systems such as the rear lift, instrumentation, armrest, etc.

5, 6 and 7 Series models; Agrottron, Agrofarm, calibrations and manual diagnosis.

The screenshot displays the Bosch ESI[truck] Heavy Duty Truck Software Update 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 content area is titled 'Calibrating the transmission' and includes the instruction: 'It is suggested to perform the troubleshooting in the sequence mentioned below.' Below this, a step is listed: 'Step 1: Press the "E" button.' A 'Display Tester' window is shown with the following text: '--- HLHP ---', 'Agrottron TTV', 'DF\_rXXX', 'dd/mm/yyyy', 'TRANSM.: ECCOMX.X', 'SPEED: XX km/h', 'TYPE: XX.XXXX', 'SUSP.: XXX', 'ASM: No', 'PTOfon: Yes', 'RADAR: No', 'AIR C.: No', 'DISTR.: X CAN', 'FLIFT: No', 'CAB.MRD: No', and '[E] Exit'. To the right of the text is a numeric keypad (1-9, 0) and a letter keypad (A-F). Below the 'Display Tester' window are 'Back' (F11) and 'Print' (F2) buttons. At the bottom right, there is a 'Technical documents' button with a globe icon (F3).

## 5.6. FENDT

Deutz and MAN engine

Type technical data associated to the Vario Series, Farmer and Favorit models.

## 5.7. JOHN DEERE

New harvester models. 6030 Series, 7020 Series and 7030 Series models, vehicle configuration parameters.

New SCC spool valve control panel in 6R models. Increase of technical data related to air conditioning, 34 updated engine types in the section "Liquid capacity and quality".

## 5.8. LAMBORGHINI

Nitro, R3, R4, R6, R7 and R8 models, calibrations and manual diagnosis in multiple systems such as the rear lift, front suspension, power take-off, transmission.

## 5.9. LINDNER

Restructuring of the brand, 16 new models.

## 5.10. NEW HOLLAND

New models T7 AC – CVT Series Final Tier 4.

Interim and Final Tier 4 models, maintenance reset.

Engine management and exhaust aftertreatment system EDC 17 CV41 + Denox 2.2, NOx sensor reset, reset of the rail pressure regulation valve, etc.

## 5.11. MASSEY FERGUSON

X700 Series models

Vehicle configuration parameters.

X400 Series model

Maintenance services.

EEM4F-EDC 17 CV41 Final Tier 4

Engine management system, catalyst cleaning.

## 5.12. SAME

Fortis, Iron, Diamond, Virtus and Explorer models

Calibrations and manual diagnosis.



## 6. NEW FUNCTIONALITIES BY BRAND IN OFF-HIGHWAY CONSTRUCTION VEHICLES

It should be noted that the technical information has been extended in all models with ZF Ergopower EST-37 transmissions (WG110-WG311 transmissions), with wiring diagram configurations. Their coverage has also been increased with new actuations and checks for all the models of the project.

### 6.1. BOBCAT

Restructuring of the brand.

New connector JDC 539A.

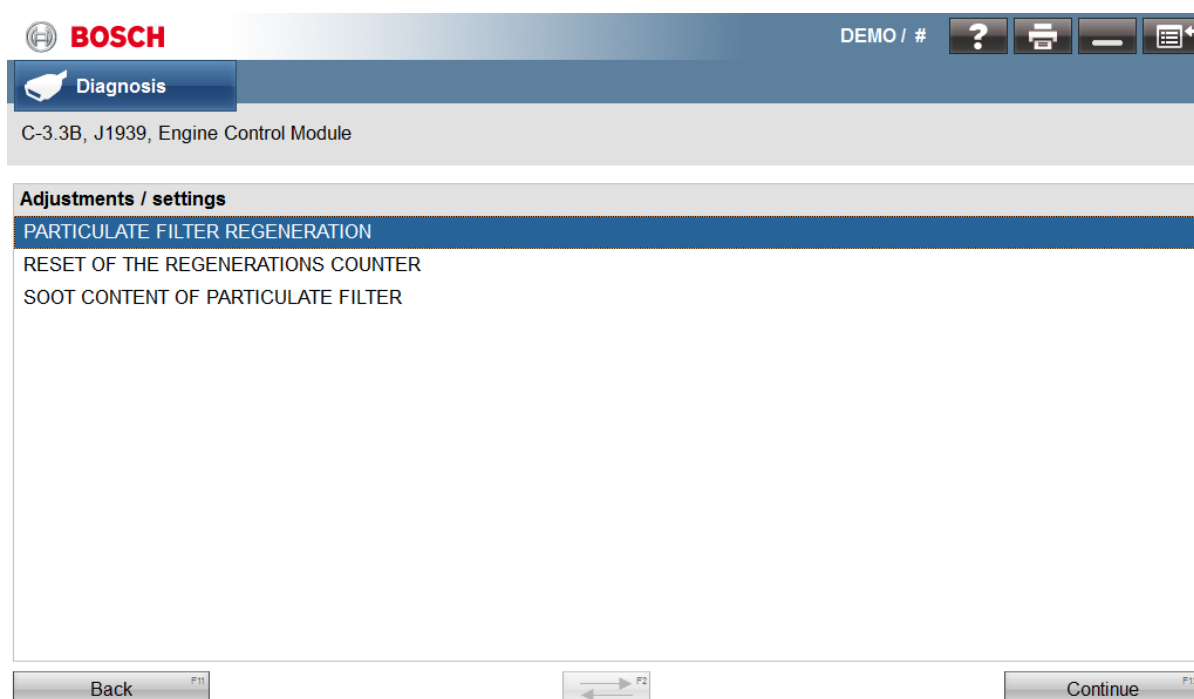
### 6.2. CASE CE

Wiring diagram configurations for ZF Ergopower transmissions. It is worth noting that the coverage of the ZF Ergopower EST-37 system (WG110-WG311 transmissions) has been increased with new actuations and checks for all the models of the project.

### 6.3. CATERPILLAR

New exhaust gases treatment system ARD (Aftertreatment Regeneration Device).

New SAE J1939 engine management systems, engines C-3.3B, C-3.8 and C-15, which include advanced diagnosis.



## 6.4. HIDROMEK

New brand.

## 6.5. HITACHI

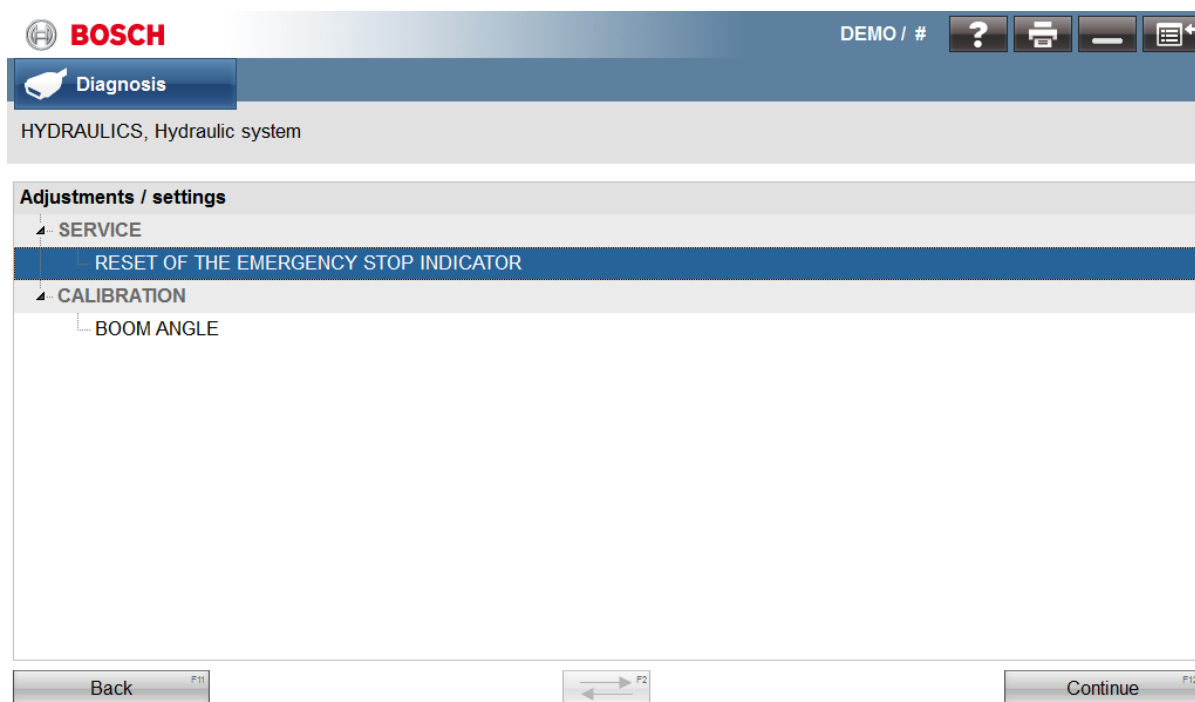
New MON Monitor Controller for Series 5 and 6 excavators.

## 6.6. JCB

The manual diagnosis has been extended for the 500 Series model (Tier 3 /Stage IIIA).

New systems in compact excavators.

Reset of the emergency stop indicator and calibration of the boom angle sensor for the hydraulic system in telescopic handlers.



## 6.7. JLG

New brand.

## 6.8. JOHN DEERE

New systems in bulldozers and wheel loaders. The TCU transmission system can be highlighted. It includes advanced diagnosis functionalities, such as the clutch calibration.

Wiring diagram configurations for the engine management system and hydraulic systems in K Series models.

## **6.9. KRAMER**

Restructuring of the brand, 12 new models.

## **6.10. MANITOU**

Restructuring of the brand, 11 new models.

New LSL1 and LSL2 hydraulic systems, with technical releases and procedures to check and calibrate the load limitation of the telescopic arm.

## **6.11. YANMAR**

New brand.

New connector JDC 538A.

## **6.12. VOLVO CE**

Restructuring of the brand, which includes 18 families and 45 models.

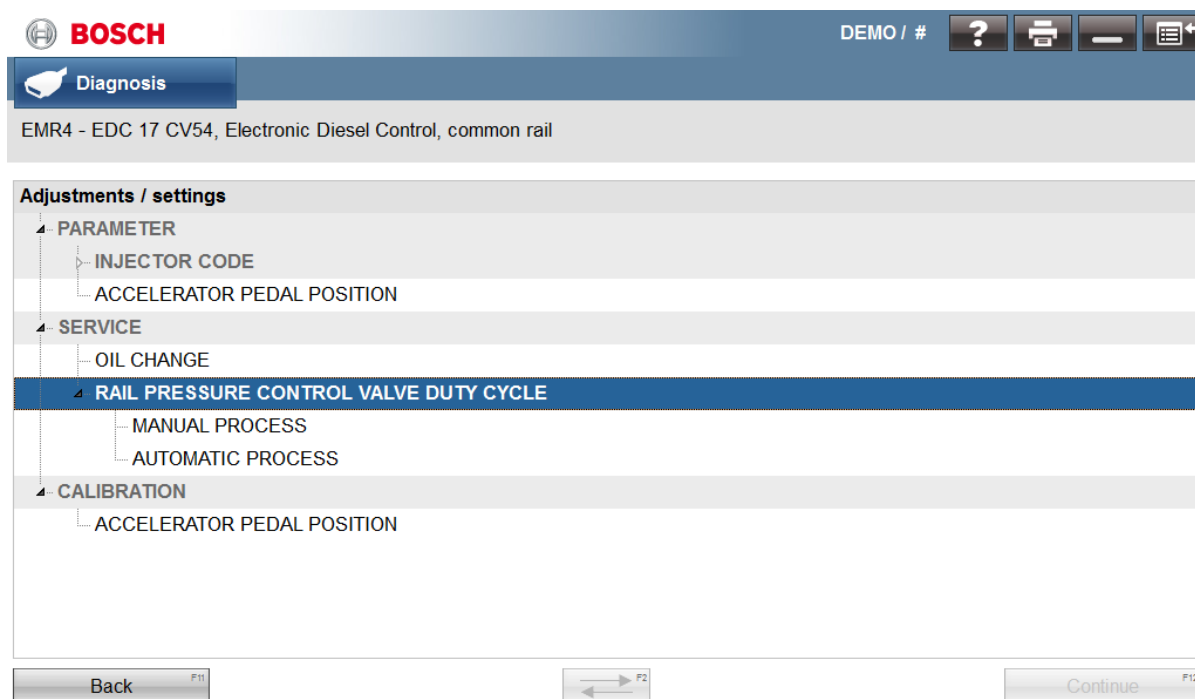
New MECU system, which includes the calibration of the transmission in articulated haulers.

Hydraulic systems in excavators, new checks and actuations.

## 7. NEW FUNCTIONALITIES BY BRAND IN OFF-HIGHWAY STATIONARY ENGINES

### 7.1. DEUTZ

EMR4 engine management systems, service regeneration for CRT models in the EDC 17 CV52 system; injector coding, reset of the rail pressure regulation valve and much more in the EDC 17 CV54 system.



### 7.2. HINO

New brand available in stationary engines, with advanced diagnosis, wiring diagrams, troubleshooting guides, etc.

### 7.3. VM MOTORI

EDC VM R754TE4/ISE4 engine management system, actuations, checks, parameter settings, particulate filter regeneration. This system is included in multiple STREET SWEEPER models.

### 7.4. VOLVO PENTA

Wiring diagram configurations for engine management systems with V2 technology.

## **8. NEW FUNCTIONALITIES BY BRAND IN OFF-HIGHWAY STREET SWEEPERS**

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### **8.1. HAKO**

New brand.

### **8.2. JOHNSTON**

New brand.



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**Bosch Automotive Service Solutions Inc.**

28635 Mound Road  
Warren, MI 48092  
USA

tech@boschdiagnostics.com  
855-267-2483