



# Bosch ESI[truck] Heavy Duty Truck Software Update

Version 2024/2

Apr 2024

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[www.boschdiagnostics.com](http://www.boschdiagnostics.com)

## Welcome

In version 2024/2, Bosch continues to expand the ESI[truck] diagnostic coverage and capabilities. 2024/2 also introduces **secure access** for Stellantis/**FCA SGW** vehicles, and several **user-interface improvements**.

A brief summary of all the content additions are on the following pages. All of the additional features and functions are too complex to summarize in this newsletter, but we are confident you will be happy with the value the ESI[truck] Diagnostic system adds to your professional shop.

See the graphs beginning on the next page that highlight the ever-growing capabilities that you – our valued customers - support when you make the decision to renew your annual software license.

If you are interested in even more of the details behind all the great improvements, please visit [www.boschdiagnostics.com](http://www.boschdiagnostics.com), and navigate to the 3824A (ESI Truck) page. Click on the 'View Vehicle Coverage' link to navigate the user friendly interface and check detailed coverage.

## Windows 7 O/S Support Has Ended

Effective with this release, **software updates are no longer supported for any computer (or tablet) that is running the Windows 7** (or older) Operating System.

If you are currently using a Windows 7 (or older) computer, you will no longer receive valuable software updates, even if you have an active software contract.

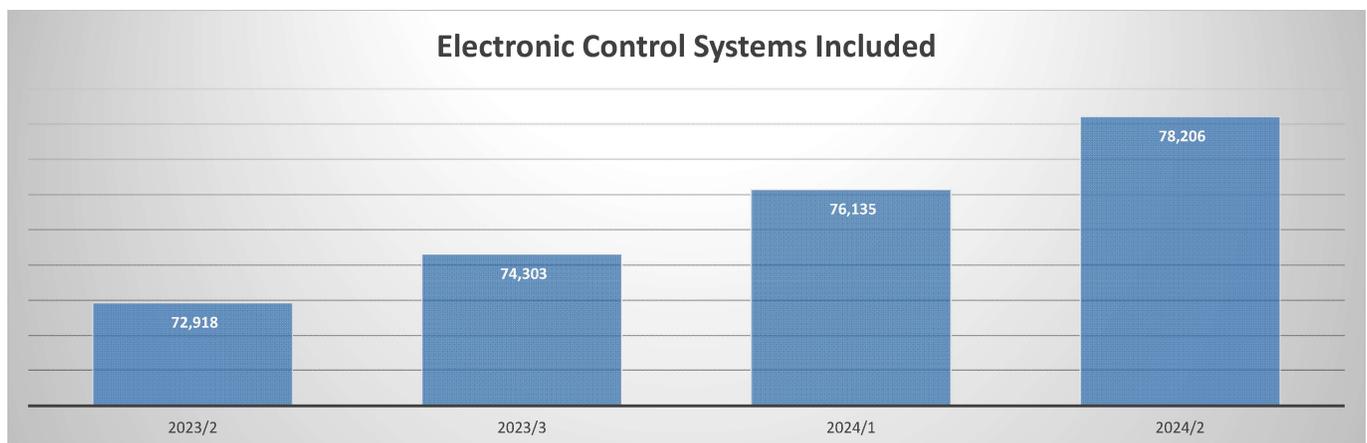
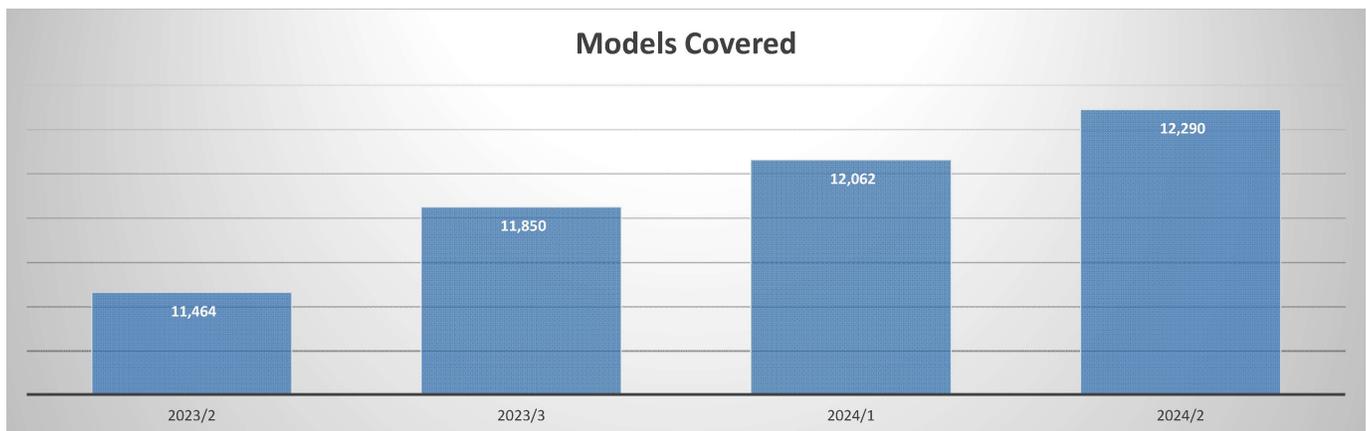
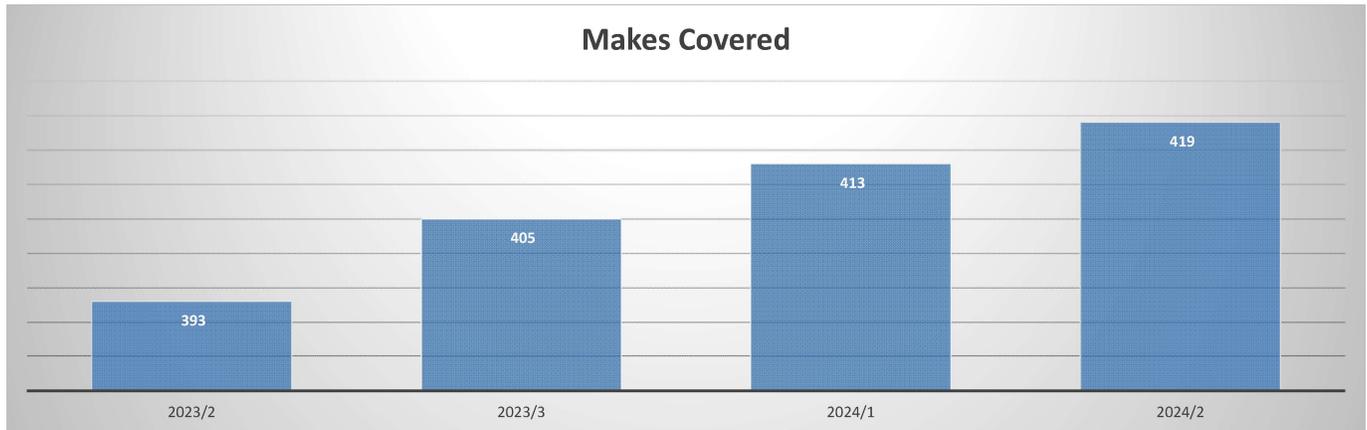
New Windows 10 tablets are available from Bosch. Please visit the following website for up-to-date information, along with answers to questions you may have:

<https://boschdiagnostics.com/dcu-100-promo>

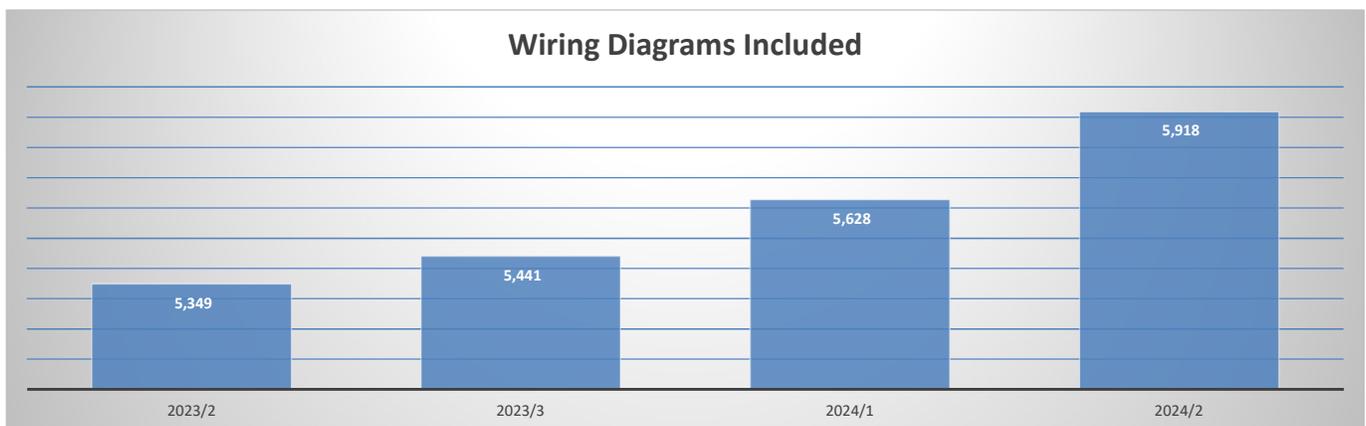
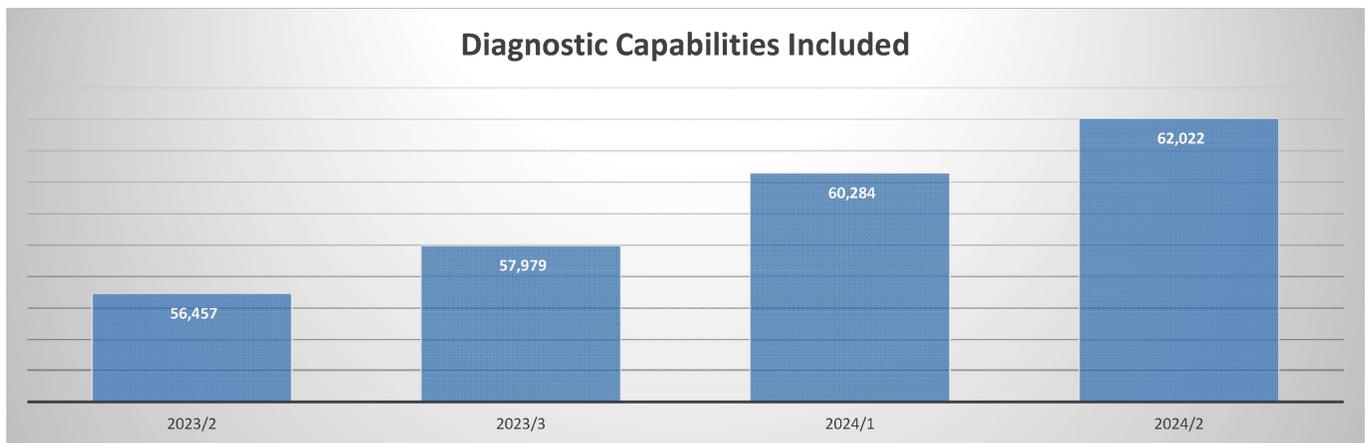
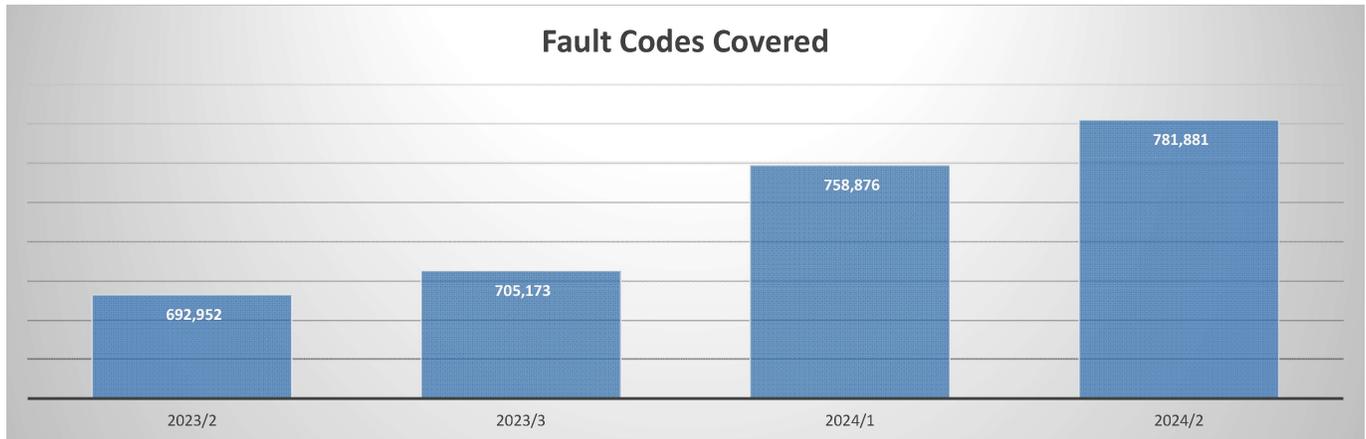
Please contact your distributor or Bosch support team if you have any questions.

## Expanding Coverage

- 6 New Makes
- 228 New Models
- 2071 New Electronic Control Systems
- 1738 New Diagnostics Capabilities
- 290 New Wiring Diagrams
- 23005 New Fault Codes



## Expanding Coverage (continued)



# SOFTWARE Highlights

## Unlock FCA Secure Gateway (SGW) Vehicles

2024/2 now includes FCA SGW secure vehicle access to perform **bi-directional functions** on **SGW protected vehicles**. Only 2 steps required:

1. **AutoAuth**: Active AutoAuth User Account and your ESI[truck] serial number registered and assigned to account.
2. **ESI Truck update** to **2024/2** version.

SGW-equipped vehicles will have an icon next to model name as shown below.

After model selection, users will be prompted for credentials.

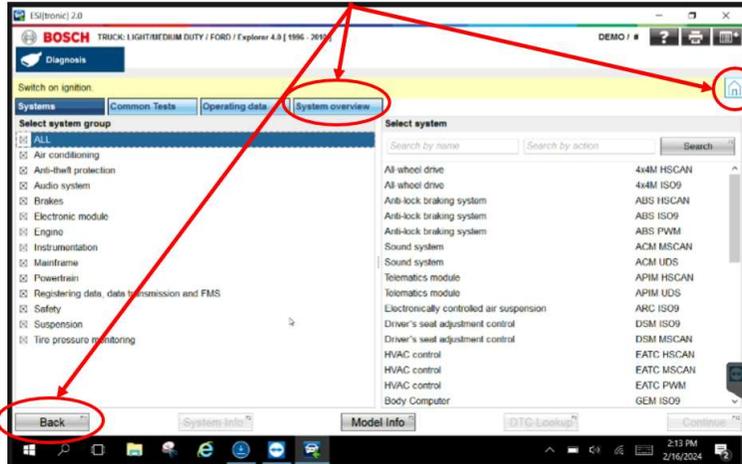
NOTE: Credentials NOT required for READ ONLY functions.

The screenshot displays the Bosch ESI[truck] 2.0 software interface. The top bar shows 'BOSCH TRUCK: LIGHT/MEDIUM DUTY / FORD / Explorer 4.0 [1996 - 2010]'. The main area is titled 'Vehicle Identification' and features four selection panels: 'Select a make' (with 'DODGE' selected), 'Select a model family' (with 'Ram 2500' selected), 'Select a category' (with 'Pickup' selected), and 'Select a model'. A red circle highlights a small icon next to the 'Ram 2500' model name in the 'Select a model' list. Below the selection panels is a 'Vehicle information based on' section with a 'Get VIN' button. An 'FCA AUTHENTICATION' dialog box is overlaid on the screen, containing the following text: 'This vehicle is equipped with Secure Gateway Module (SGW) which requires Authorization and Login with AutoAuth credentials to perform bi-directional functions. Ensure your device is connected to the Internet. More information or to create account on AutoAuth click [here](#).' Below this text are input fields for 'AutoAuth Username' and 'AutoAuth Password', a checkbox for 'Remember credentials in this session', and 'Login' and 'Continue' buttons. At the bottom of the dialog, it states 'You may perform READ only functions without login here.' and 'Additional Information on SGW and requirements [here](#).' The Windows taskbar at the bottom shows the time as 2:14 PM on 7/16/2024.

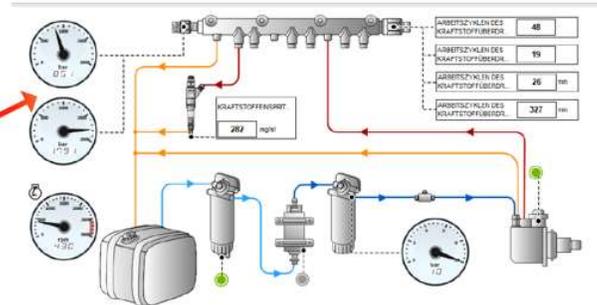
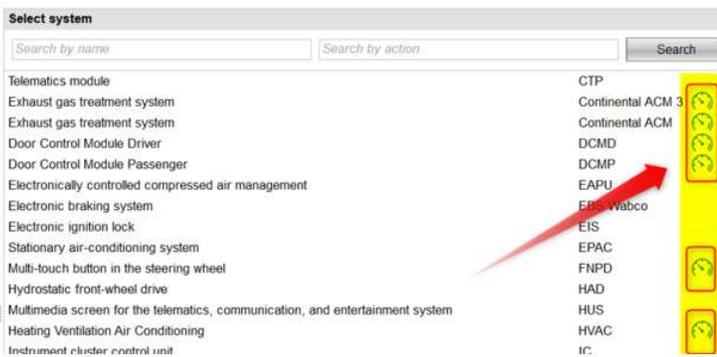
# SOFTWARE Highlights (continued)

## User-interface updates improving efficiency

- Home Button added on all screens – navigate back to Main Menu with one-click
- Back-button standardization – always find the Back button on lower left of screen
- Shortcut to System Overview from System Selection



- Shortcut to System Display from System Selection



## CABLES

### 2024/2

- 1 684 465 919 - ZF Ergopower 6 pin
- 1 684 465 920 - Doosan DL03 engines in Bobcat

### 2024/1

- 1 684 465 916 – Sisu Tier 5 engines in AGCO
- 1 684 465 917 – Hatz

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## Additional Vehicle Coverage & Highlights

These are some of the relevant new features enhanced and released in this new version. Please contact us, use the DEMO mode, or read the VTC table to have a complete detail of the systems' coverage.

### Heavy-Duty Truck

*New content has been added for the following Heavy Duty Systems:*

#### CUMMINS

- Extended coverage in all CUMMINS systems, especially for GHG21 systems with more than 300 new references and variants added.
- BES EV CM2450 electric drive control unit, customer and vehicle information parameters.
- GHG 21 engine systems:
  - B6.7, L9, X12/X15 CM2450 engine control system, enhanced fuel System Display and new component images.
  - L9 CM2450 engine control system, system checks to verify the intake air heater.
- GHG 17 engine systems:
  - B4.5/B6.7, L9 X12 and X15 CM2350 engine control system, enhanced fuel System Display, system checks to verify the intake air control and NOx sensor performance after catalytic converter.
- EPA13 engine systems:
  - ISB, ISC, ISL and ISX engine control system, enhanced fuel System Display, switches test for ISB6.7 CM2250.
- EPA04 engine systems:
  - ISC/ISL CM850 engine control system, enhanced fuel System Display.
- Vehicle technical data and procedures such as the valve lash adjustment, fuel pump, oil filter and injector replacement for B4.5/5.6/5.9/6.3/6.7 B181 CM2670 engines.

#### DETROIT DIESEL-MBE

- Extended coverage in all DETROIT DIESEL-MBE systems, especially for 2023/2024 vehicles with new references and variants added.
- DDEC13/16 EPA13/ and GHG14/17 vehicles:
  - CPC4 powertrain module, monthly operation data and optimized idle parameters.
  - MCM2.1 DD5/DD8 engine control system, injector coding and injector reset functions.
- New vehicle technical data for DD13 GH21 and DD15 GHG17 engines and injector replacement procedure for DD5/DD8, DD13/DD15/DD16 engines.

**INTERNATIONAL**

- Model technical data for CityStar CF500 and CF600 Series.

**NAVISTAR**

- SCR engines: A26 GHG17 engine control system, operation data.
- Procedures such as injector replacement for A26 engines.

**STERLING**

- Model technical data for Acterra and Set-Back Series.

**WESTERN STAR**

- Model technical data for all models, including: 4700 and 4900 Series, 47X and 49X Series and 5700 and 6900 Series.

**Light/Medium-Duty**

*New content has been added for the following Light/Medium-Duty Systems:*

**DODGE**

- RAM ProMaster [2014 - 2021] models.
  - o New TPM tire pressure monitor.
  - o New ORC airbag system.
  - o New HVAC air conditioning system.
  - o New RFH steering system.
- New RAM ProMaster 1500/2500/3500 [2020 - 2021].
- READ functions added IN 2024/1 – NOW BI-DIRECTIONAL WITH SGW ACCESS IN 2024/2
  - o RAM 1500 [2019 - ...] models: PCM engine control system, ORC airbag system, BCM central computer, EPS steering system, HVAC heating, ventilation and air conditioning, ICS climate control system and TCM transmission.
  - o New RAM 1500 TRX HEMI 6.2 V8 [2022 - ...] model.

**GMC/CHEVROLET**

- New GMC/Chevrolet Savana/Express [2018 - ...].
- Permanent fault codes for all Duramax engines.

## Off-Highway Software

NOTE – these features are only available if you have purchased the Off-Highway add-on module for the *Bosch ESI Truck*. To learn more about this additional capability, visit [www.boschdiagnostics.com](http://www.boschdiagnostics.com) or see your tool distributor.

### Agricultural Vehicles Additional Coverage

- New brands
  - o SILOKING
- New models
  - o CASE iH
    - Optum Series (TMR), engine: Final Tier 4/Stage IV
    - Puma Series - CVT (TMR), engine: Final Tier 4/Stage IV
  - o CLASS
    - Axion 9X0 (A64), engine: Tier 5/ Stage V
  - o LANDINI
    - 5 Series, engine: Tier 5/ Stage V
  - o MASSEY FERGUSON
    - 3400 Series
  - o PELLENC
    - Buggy Maxi 5000S
  - o TERRAGATOR
    - 8203
    - 8204
    - 9203

These are just some of the most relevant new features enhanced and released in this new version. Please, contact us, use the DEMO mode, or read the VTC table to have a complete detail of the systems' coverage.

Overall, new manual diagnostics in several models of different makes such as CASE iH, JCB, JOHN DEERE, KUBOTA, MASSEY FERGUSON or NEW HOLLAND, among others.

DEUTZ EMR5 - EDC MD1 engine control system, System Display settings in several models of different makes such as CARRARO, DEUTZ-FAHR, LAMBORGHINI, LANDINI, McCORMICK and TYM.

MAN EDC 17 Master/Slave CV42 engine control system in models of makes such as CLAAS, FENDT and MASSEY FERGUSON, maintenance operations related to the O<sub>2</sub> lambda sensor and the counter reset of the inducement mode.

*New content has been added in the following Agricultural Vehicle Systems:*

#### **CASE IH**

- New ADIC instrument cluster and RPTO rear power take-off in the Farmall C Series model, engine: Tier 5/ Stage V.
- TCM transmission, calibration for Farmall C Series models, engine: Tier 5/Stage V.
- FPT EDC 17 CV41 + Denox 2.2 engine control system for Optum Series (TMR) models, engine: Final Tier 4/ Stage IV, Puma Series - CVT (TMR), engine: Final Tier 4/ Stage IV, etc. wiring diagram configurations.

- Reset of the temperature sensor of the oxidation catalyst in the FPT EDC 17 CV41 + Denox 2.2 engine control system for Axial-Flow 7250/8050/9250 Series models.

### **DEUTZ-FAHR**

- SECU central computer, parameter setting of the power take-off, the rear lift and the axle system management (ASM) for 6 Series models.
- DEUTZ EMR5 - EDC MD1 engine control system, activations and checks of the AdBlue/DEF system for 6 Series, 7 Series, 8 TTV Series and 9 TTV Series models, among others.

### **FENDT**

- New Husco Auxiliar Valves hydraulic system for the 1100 MT Series model, engine: Final Tier 4/ Stage IV.
- MAN EDC 17 CV42 engine control system, reset of the pressure relief valve for 900 Vario Series (GEN6) and 1000 Vario Series models, among others.

### **JOHN DEERE**

- New SB4, SB5 and SB6 hydraulic systems for the 6R Series model.
- New ATC (MY22) climate control for the 8R Series model.
- New ECU HPCR (Level 24 – Tier 2/Stage II) engine control system in the R4 Series model.
- ECU HPCR (Level 40) engine control system, vehicle technical data for new engine types in 7R, 8R and 9R Series models.
- CCU central computer, calibration of the radar and the GPS-based wheel slip for 7R, 8R and 9R Series models.
- PTI (AutoPowr-IVT) transmission, reset of the system calibration values for 7R Series models.
- Wiring diagram configurations, technical data and location images in the ECU HPCR (Level 40) engine control system for CP700 and CS700 Series models and in the PTP transmission for 8000 Series models.

### **LANDINI**

- New FPT EDC MD1 CS069 engine control system for 5 Series, engine: Tier 5/ Stage V.
- FPT EDC 17 CV41 + Denox 2.2 engine control system, reset of the temperature sensor of the oxidation catalyst for 7 Robo-six Series (160/180/200/220/230) and 7 V-Shift Series models with Final Tier 4/ Stage IV engines, among others.

### **MASSEY FERGUSON**

- New SISU EEM4 - EDC 17 C63 engine control system for the 3400 S Series model.
- SRC14-34 central computer, calibrations of the rear lift, the clutch pedal, the forward speed and the rear power take-off for 6700 S, 7700 S and 8700 S Series models.
- PVED steering system, calibrations of the wheel turning angle sensor and the steering valve for 6700 S, 7600, 7700 S, 8600 and 8700 Series models, among others.
- MFA armrest system, calibration of the spool valve control lever for 6700 S, 7600, 7700 S, 8600 and 8700 Series models, among others.
- New actuations of the solenoid valves of the cab suspension in the TECU system of 6600 and 7600 Series models.

### **NEW HOLLAND**

- FPT EDC MD1 CE101 engine control system, check of the engine cooling fan for the T6 Series - Auto Command model, engine: Tier 5/ Stage V, among others.
- Parameter setting in the TCM system for T5 Series – Electro Command models, engine: Tier 5/ Stage V.

- DEC transmission, calibration for T8 Genesis Series – Full Power Shift models, engine: Tier 5/ Stage V and T9 PLM Series, engine: Tier 2/ Stage II- Final Tier 4/ Stage IV.
- FPT EDC MD1 CE101 engine control system, checks and maintenance services.

### **STEYR**

- Procedure for the maintenance reset of the SISU EEM4S5 - EDC MD1 engine in the T154A (AC37.6) model.

### **VREDO**

- Wiring diagram configurations in the JOHN DEERE ECU Denso (Level 16) engine control system in the VT2716 model.

## **Construction Vehicles Additional Coverage**

Some of the new models and brands are listed below.

- New brands
  - o LJUGBY MASKIN
  - o MENZI MUCK
  - o MULTIONE
  - o VM LOADER
  - o VÖGELE
- New models in the following brands BOBCAT, LIEBHERR, XCMG and YANMAR.

These are some of the relevant new features enhanced and released in this new version. Please, contact us, use the DEMO mode or read the VTC table to have a complete detail of the systems' coverage.

It is important to note the development of new advanced actions such as the exhaust gas aftertreatment system checks in the EMR5 EDC MD1 engine control system in STAGE V Deutz engines. This system is available for STATIONARY ENGINE or other makes such as AMMAN, DYNAPAC or WEIDEMANN, among others.

Furthermore, it is highlighted new advanced actions developed in the MCM central computer system of CATERPILLAR for D Series compact dozers.

Finally, technical data in new SCANIA engine types has been added and, a technical release to reset the maintenance interval indicator in SCHMIDT could be also highlighted.

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

### **BOMAG**

- TCD 12.0 EMR4 EDC17 CV52 (on SAE J1939) engine control system, system checks, parameters and maintenance services.

### **CASE CE**

- New wiring diagram configurations available for G Series models.
- FPT EDC MD1 CS069 (on SAE J1939) engine control system, AdBlue/DEF metering valve check, injector coding, maintenance services in the exhaust gas aftertreatment system and component replacement operations.

### **CATERPILLAR**

- New C-27 / C-32 (on SAE J1939) engine control system.

- C-2.2 engine control system for 200 Series (on SAE J1939), injector coding and Exhaust Gas Recirculation reset.
- C-9.3B (on SAE J1939) engine control system, activations, checks and other advanced functions.
- MCM central computer for D Series (on SAE J1939), calibrations of the control lever, the power train and the implement control valves.

## **DEUTZ**

- EMR4 EDC17 CV52 (on SAE J1939) control system of TCD12.0 and TCD16.0 engines, compression test, injector coding, Pressure Relief Valve reset and ZFL correction values adjustment of the injectors.
- EMR5 EDC MD1 (on SAE J1939) engine control system, System Display, activations, system checks and maintenance service operations.

## **IVECO-FPT**

- EDC MD1 CS069 engine control system in F34 (F5) and F36 (F5) (on SAE J1939), AdBlue/DEF dosing valve check, injector coding, maintenance services in the exhaust gas aftertreatment system and component replacement operations.

## **ISUZU**

- 6WG1 (on SAE J1939) engine control system, forced and slow regeneration of the Diesel Particulate Filter and oil change reset.
- Control system (on SAE J1939) of 4HK1, 4JJ1 and 6HK1 engines, System Display during the recovery processes of the exhaust gas aftertreatment system.

## **KOMATSU**

- New wiring diagrams in the PUMP system for PC-8 and ENG system for PC-7.

## **KUBOTA**

- New MCM (on SAE J1939) central computer.

## **LIEBHERR**

- ECU2-HD (on UDS) engine control system, activations, system checks and the special function of fault code clearance of the aftertreatment system.
  - EDC17 CV41 (on SAE J1939) engine control system, recovery process of the exhaust gas aftertreatment system.

## **NEW HOLLAND**

- New wiring diagram configurations in WC Series wheel loaders and L Series skid-steer loaders.

## **SANY**

- 6WG1 (on SAE J1939) engine control system, forced and slow regeneration of the Diesel Particulate Filter and oil change reset

## **VOLVO CE**

- HMICU (on SAE J1939) central computer, accelerator pedal check for L Series (XY H) models.

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