



Bosch ESI[truck] Heavy Duty Truck Software Update

Version 2024/1

Jan 2024

www.boschdiagnostics.com

Welcome

In version 2024/1, Bosch continues to expand the ESI[truck] diagnostic coverage and capabilities. 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, 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.

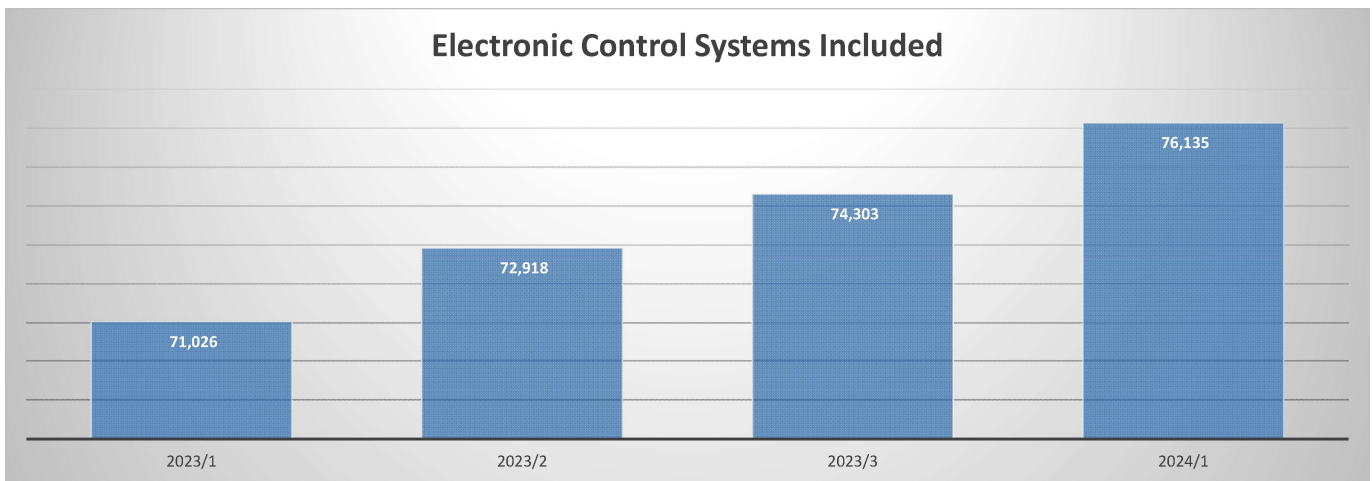
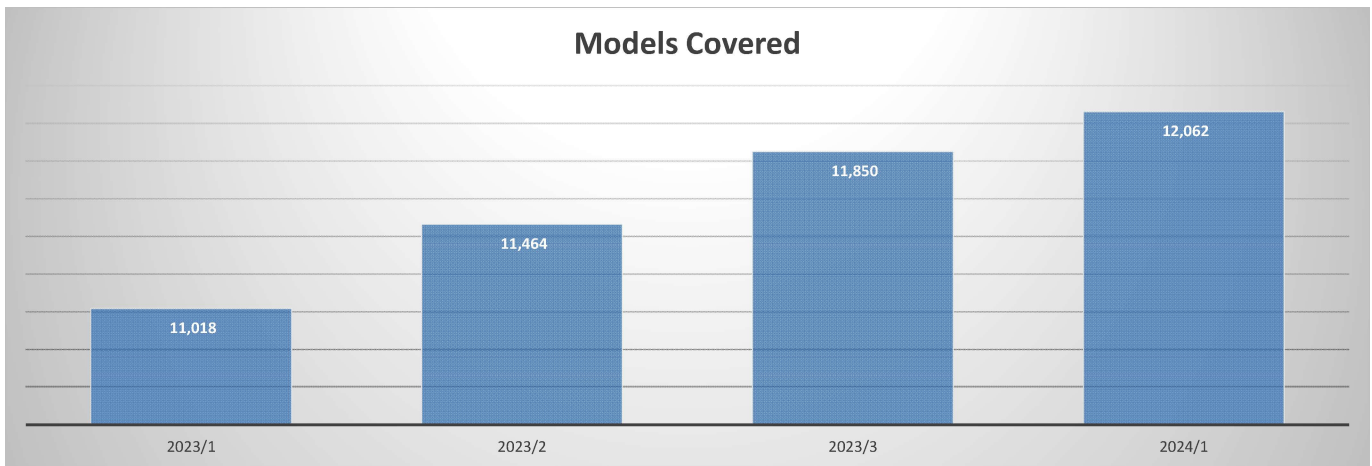
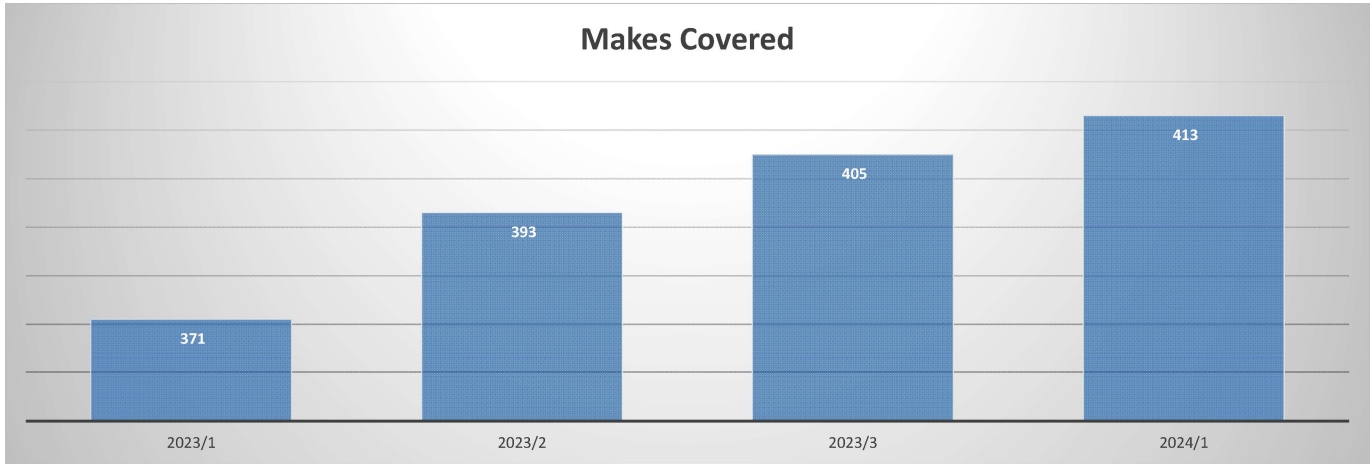
If you are currently using a Windows 7 (or older) computer, you will no longer receive valuable software updates, even if you have an active software contract.

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:

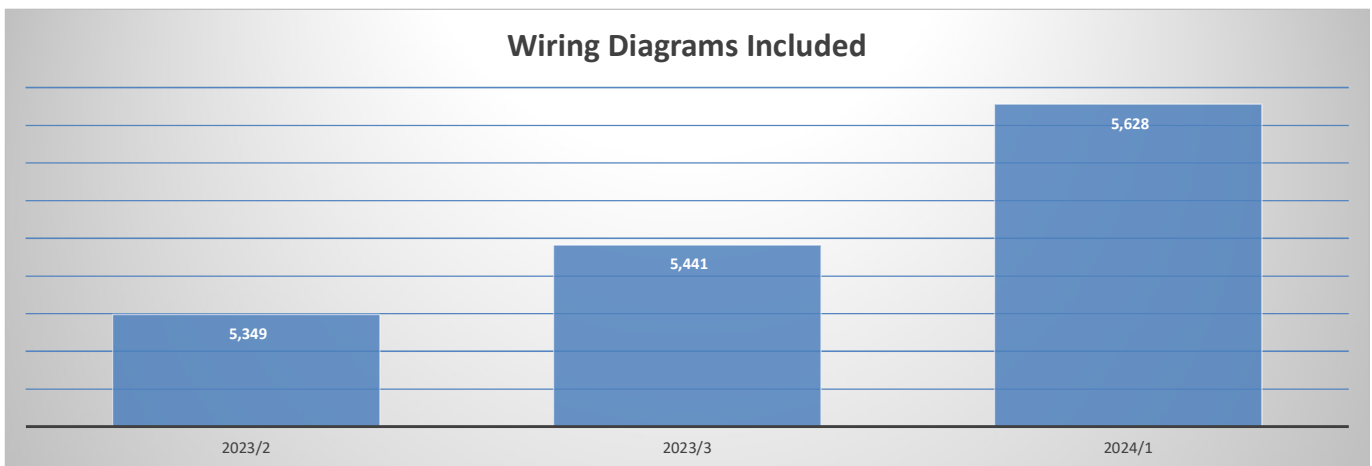
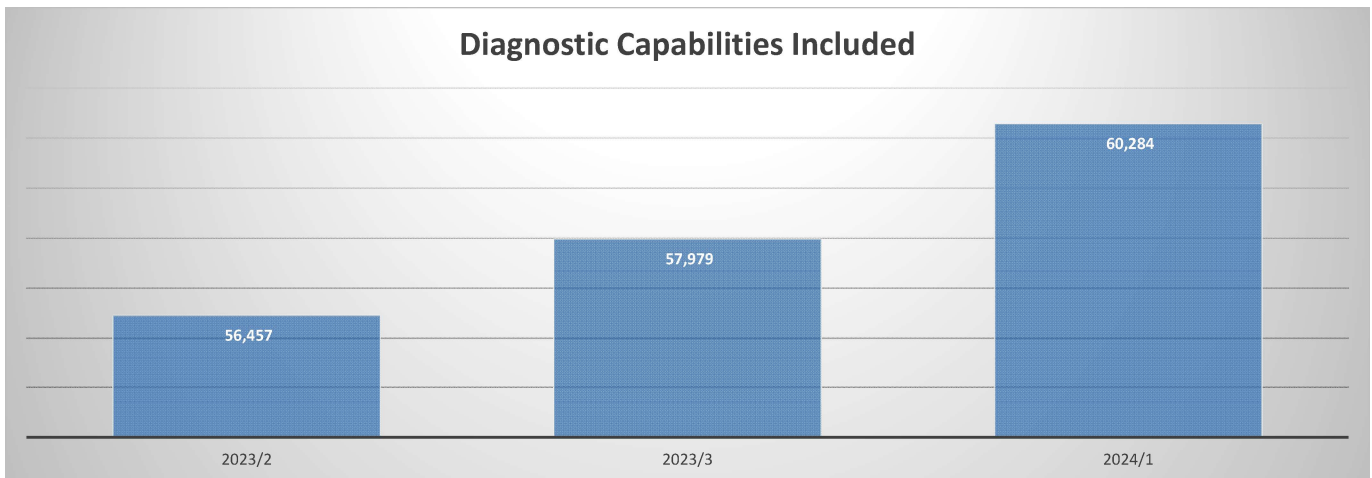
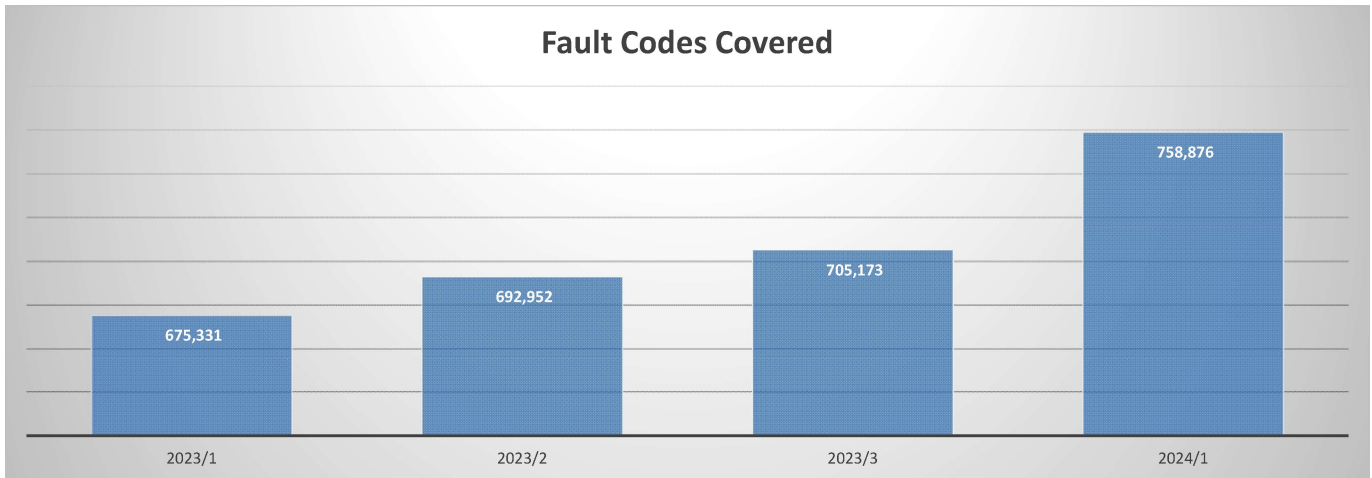
<https://boschdiagnostics.com/dcu-100-promo>

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

Expanding Coverage



Expanding Coverage (continued)



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:

New brand BATTLE MOTORS which includes the Elite NAS1 model.

ALLISON

- Allison 3000/4000 (6th Gen) transmission, adaptive shift reset, oil filter reset and clutch reset.
- Allison 5th Gen transmission, new parameter groups such as FuelSense, ECU data and shift inhibitors.

BENDIX

- TABS-8 trailer ABS brakes, activations to check wheel speed sensors, modulators and axle load and configuration of the installation angle.
- SDP3 system, copy and paste parameters and the back-up function.

CUMMINS

- All systems
 - Extended coverage in all CUMMINS systems especially in GHG21 systems with more than 500 new references and variants added.
- GHG 21 engine systems:
 - B6.7, L9, X12/X15 CM2450 engine control system, bi-directional tests to check starter motor lockout, engine state monitoring and fast idle warmup.
 - L9 CM2450 engine control system, system checks to verify outlet NOx sensors, VGT actuator compatibility and injector coding.
- GHG 17 engine systems:
 - X12 & X15 CM2350 engine control system, injector coding and parameter configuration.
- EPA13 engine systems:
 - ISB6.7 & ISL9 CM2350 engine control system, idle shutdown, start lockout, configuration of the aftertreatment system and transmission setting parameters.
- Vehicle technical data and procedures such as the valve lash adjustment for B6.7 B181 CM450 engine control system.

DETROIT DIESEL-MBE

- Extended coverage in all DETROIT DIESEL-MBE systems especially for 2023/2024 vehicles with new references and variants added. Furthermore, DETROIT DIESEL-MBE includes a new GIF System Display to simplify the cylinder cutout test interpretation.
- DDEC13/16/20 EPA13 - GHG21 vehicles:
 - CPC4/CPC3EVO/CPC5 Base powertrain module, accelerator pedal, optimized idle, engine brake and engine protection, among others parameters.
 - ACM2.1/ACM3 aftertreatment control system, DEF metering cleaning.
 - DT12 transmission, new variant for 2023/2024 vehicles, live data and bi-directional tests.
- New vehicle technical data for DD13/DD15 GHG21 engines and procedures such as the 'injector replacement' that applies to many engine types for GHG21 engines.
- DDEC III/IV Series 92 engine control system, bi-directional tests such as injector response, cylinder cut-out, system technical data, wiring diagrams and much more.

EATON

- Endurant transmissions, new parameter groups such as Aux functions, hill assist, automatic neutral position or indicators, among others.

FREIGHTLINER

- M2, Cascadia & New Cascadia modules add new references and variants especially for 2023/2024 vehicles.

INTERNATIONAL

- New TPMS Tire Pressure Monitoring System.

NAVISTAR

- A26 GHG17 engine control system, new parameter groups such as engine protection, PTO or maximum vehicle speed, among others.
- Procedures such as 'Oil and fuel filter change', 'Distribution phasing', 'DPF replacement' or 'fuel pump checking' for A26 engines.

PACCAR

- New SWS-2 steering wheel switch system in GHG 21 vehicles.
- VECU, VECU-2, DD, MSM, RHS, HVAC, CMP and CMS modules, wiring diagrams.

PSI

- Gasoline engines:
 - 6.0L & 8.8L engine control system, throttle position sensor reset.
- LPG engines:
 - 8.8L engine control system, throttle position sensor reset and multiplier block learning process and reset.

VOLVO

- US13-GHG21 vehicles:
 - LCM light control system, lamp configuration (min – max amp).
 - TECU V3 transmission, performance mode configuration.
 - EMS V3 engine control system, parameter configuration such as the max vehicle speed with ECO level and the manual DPF regen enabling.
- New PCM, HPCU, EVCM modules, live data added in the VNR Electric model.

Light/Medium-Duty

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

DODGE

- 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.
- New RAM 1500 TRX HEMI 6.2 V8 [2022 - ...] model.

FORD

- New RCM 2019 - ... airbag system in the F/E-series [2019 - ...] model.

GMC/CHEVROLET

- New EBCM Var 2 brake system in Sierra/Silverado/Cheyenne 1500-3500 [2019 - ...].

FREIGHTLINER / MERCEDES-BENZ

- New wiring diagram configurations available for several systems such as ENR, STH, CRR2, BSN/IBS, OCP or ISM in Sprinter 906/907 and Vito-Metris 447 models.
- ENR suspension control system in the Sprinter 906 model.
- Parameters of the transport mode in Sprinter 906/907.

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 or see your tool distributor.

Agricultural Vehicles Additional Coverage

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

- New brands
 - AVR tractors
 - AEBI implements
- New models
 - CASE iH
 - Optum Series (TMR), engine: Final Tier 4/Stage IV
 - Puma Series - CVT (TMR), engine: Final Tier 4/Stage IV
 - CLAAS
 - Arion 4X0 (A72), engine: Tier 5/Stage V
 - Nexos (A65/A66/A67/A69/A70/A71)
 - JOHN DEERE
 - 2R Series
 - S400 Series
 - CP700 Series
 - CS700 Series
 - LANDINI
 - Rex 4 Series (F/S/V/GT/GE/GB), engine: Tier 5/Stage V
 - Trekker Series, engine: Tier 5/Stage V
 - McCORMICK
 - X4 Series (F/N/V/XL), engine: Tier 5/Stage V
 - ROSTSELMASH
 - RSM 1403
 - TYM
 - K110E
 - T455
 - T130
 - VALTRA
 - A 105
 - A 95
 - VREDO
 - VT7028-3

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.

Overall, new DTC Lookup in several models of brands such as **CASE IH**, **JOHN DEERE**, **MASSEY FERGUSON** or **NEW HOLLAND**, among others.

As innovation, it is important to highlight the AdBlue/DEF module cleaning in the Cummins B6.7 engine control system, present in several models of tractor and harvest equipment brands such as KUBOTA and CLAAS. Furthermore, FPT EDC MD1 CS069 engine control system, checks and maintenance services of the engine and the AdBlue/DEF exhaust gas aftertreatment system.

In harvest equipment, extended coverage of configurable parameters in Volvo EMS V3 and EMS V4 engine control systems, present in models such as AGRIFAC, AVR, HOLMER, ROPA or WEISS McNAIR.

CASE IH

- New TCM transmission and EDC rear lift system in the Farmall C Series model, engine: Tier 5/Stage V.
- AST steering system, technical release to calibrate the steering in Maxxum Series – CVT and Puma Series - 18/19x6 Full Power Shift models, engine: Final Tier 4/Stage IV, among others.

CHALLENGER

- Husco Auxiliar Valves hydraulic system, exchange of the spool valve identification codes for MT 700E Series models, engine: Final Tier 4/Stage IV and MT 800E Series, engine: Final Tier 4/Stage IV, among others.
- SISU EEM4F – EDC 17 CV41 Master/Slave engine control system, checks and maintenance reset.

FENDT

- New ICU injection control system in the 900 Vario Series (GEN6) model, engine: MAN, Final Tier 4/Stage IV.
- MAN EDC 17 CV42 engine control system, lambda/O2 sensor reset for 1000 Vario Series and 1100 Vario Series models, engine: Final Tier 4/Stage IV, among others.
- New wiring diagrams, technical data and location images in systems of 900 Vario MT Series models, engine: Final Tier 4/Stage IV and 1100 Vario MT Series, engine: Final Tier 4/Stage IV, it is important to highlight the Instrument Cluster and Rexroth valves systems.

JCB

- New systems in Fastrac 8000 and Fastrac 4000 Series models: 4WD differential lock control system and ABS brake system.
- FCC central computer, suspension calibration for the Fastrac 8000 Series model, engine: Final Tier 4/Stage IV.
- EXT-LT transmission, calibration of the rear and front power take-offs for Fastrac 4000 Series models.

JOHN DEERE

- New HV1 hydraulic system for 5M and 5R Series models.
- New AIC (MY22) electronic module for 8R Series models after the year 2022.
- ECU HPCR (Level 40 - Tier 4F/5 - Stage IV/V) engine control system, functionalities such as the injector coding, the diesel particulate filter cleaning or the fault code clearance of the exhaust gas aftertreatment system for 7R, 8R and 9R Series models.
- SCO hydraulic control system, set of the XI, XII and XIII front spool valves for the 6R Series model, engine: Interim Tier 4/Stage IIIB.
- HCC hydraulic system, lift calibration for the 8030 Series model.
- New systems for the 8000 Series forage harvester model, such as: CAB electronic module of the cabin. ATC climate control, CRU audio. CHC harvest system, CSM battery control module and/or switch module, HM1 harvest system, MHC electronic module, PTP transmission and XSC steering control system.
- New systems for S500, S600 and S700 Series combine harvester models: AYM harvest system and ATC climate control.
- ECU EUI (Level 32 - Final Tier 4 / Stage IV) engine control system, verification test of the SCR exhaust gas aftertreatment system repair for CP600, S700 and X9 Series models, among others.

- New wiring diagrams, technical data and location images in the ECU HPCR (Level 40 - Tier 4F/5 - Stage IV/V engine control system for CH900 and X9 Series models.

MASSEY FERGUSON

- New SRC14-34 central computer for 6700 S, 7700 S and 8700 S Series models.
- New steering control system for 6700 S and 7700 S Series models.
- New DCC instrument cluster for the 8700 S Series model.
- PVED steering control system, steering angle check and calibrations of the centered steering position and the maximum wheel turning angle.
- Parameter setting in systems of this brand such as the DCC2 instrument cluster or the Autotronic 5 suspension control system.
- KeyBoard instrument cluster, System Display during the parameter setting in 5600, 5700 S/SL, 6600, 6700 S, 7600, 7700 S, 7700 and 8700 Series models.

NEW HOLLAND

- REHR remote hydraulic controller, set of the boom control lever and the switch in the mudguard for the T6 Series - Auto Command (TMR) model, engine: Final Tier 4/Stage IV.
- Calibration of the rear power take-off in RPTO system for T6 Series - 16/17x16 models, engine: Final Tier 4/Stage IV and T7 Series - Auto Command, engine: Tier 5/Stage V, among others.
- FPT EDC 17 CV41 + Denox 2.2 (Vector) engine control system, replacement of the pressure regulator of the high-pressure fuel pump for the FR Series model.

STEYR

- FPTO front power take-off control system in the Terrus Series model, engine: Final Tier 4/Stage IV.
- Calibration of the spool valve control levers in REHR system for Profi 4115-6145 - 16/17x16 (TMR) models, engine: Final Tier 4/Stage IV and Terrus Series, engine: Tier 5/Stage V, among others.

VALTRA

- TC PS transmission, individual calibrations of the transmission and clutches for models such as N 122V (AC15.22), N 134V (AC35.5), T 154A (AC37.5) or T 254V (AC35.6), among others.

VREDO

- New Deutz EMR4 - EDC 17 CV52 Master/Slave engine control system, present in the VT7028-3 model of VREDO brand.

Construction Vehicles Additional Coverage

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

Some of the new models and brands are listed below.

- New brands
 - o AVANT
 - o DEVELON
 - o MST
 - o THALER

- New models in the following brands CASE CE (i.e., for CX Series crawl excavators), BUCHER, KUBOTA, TAKEUCHI, etc.

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 Diesel Particulate filter regeneration for the EMS V3 engine control system in Stage V VOLVO PENTA engines. This system is available for brands such as GRADALL, KALMAR or TERBERG, among others.

Furthermore, it is highlighted the development of new advanced actions in the MCM central computer of CATERPILLAR for 900 Series wheel loaders.

Finally, it is also important to note new functionalities in the VOLKSWAGEN EDC VW (CPYA) system in AUSA, CMAR and SCHMIDT brands

BOBCAT

- o DOOSAN EDC DM02 / DM03 (on SAE J1939) engine control system, actuations, checks of the AdBlue/DEF metering valve and the AdBlue/DEF pump motor, injector coding and Diesel Particulate Filter regeneration.

BOMAG

- o New EMR4 EDC17 CV52 engine control system for TCD12.0 (on SAE J1939) engines.

CATERPILLAR

- o New MCM (on SAE J1939) central computer for D Series models.
- o C-9.3B (on SAE J1939) engine control system, checks and maintenance services.
- o New wiring diagram configurations in the C-9.3B engine control system available for D6, D7, 960 and 970 Series models.

CUMMINS

- o X15 (on SAE J1939) engine control system, operation data and fuel consumption, checks, parameters, operating test of the exhaust gas aftertreatment system and injector coding.

DEUTZ

- o New EMR4 EDC17 CV52 (on SAE J1939) engine control system for TCD12.0 and TCD16.0 engines.

DOOSAN

- o EDC DM02 / DM03 (on SAE J1939) engine control system, actuations, checks of the AdBlue/DEF metering valve and the AdBlue/DEF pump motor, injector coding and Diesel Particulate Filter regeneration. In addition, new wiring diagram configurations available for the DX50W-7 model.

HATZ

- o New EDC17 C81 (on SAE J1939) engine control system.
- o New wiring diagram configurations available for the 4H50TIC model.

JOHN DEERE

- VCU central computer for 944K wheel loaders, calibrations.
- New wiring diagrams in the TCU transmission available for the 524L model and the VCU central computer in backhoe loaders for L, K, SL and SK series.

KALMAR

- New DANA SPICER transmission for TR Series and TT Series models.

KOMATSU

- CUMMINS 4D95 3.3 CM2350 (on SAE J1939) engine control system, injector coding.

KUBOTA

- Technical data in new KUBOTA engine types has been added.

LIEBHERR

- New ECU3 (on UDS) engine control system.

NEW HOLLAND

- New wiring diagram configurations available for 300 Series wheel loaders and skid-steer loaders.

SANDVIK

- EMR4 EDC17 CV52 (on SAE J1939) engine control system, check of the Diesel Particulate Filter heating, Mode 1 and Mode 2.

VM MOTORI

- New wiring diagram configurations of the engine control system and the exhaust gas aftertreatment system available for R756EU5, R754EU5, R754EU4, R756EU4, R754IE4 and R754/R756 (Stage IV/EU6) models.

VOLVO PENTA

- EMS V3 Stage V engine control system, Diesel Particulate Filter regeneration.

WACKER NEUSON

- VCU central computer for electric wheel loaders, advanced functions such as the maintenance reset.

Thank you for being a loyal Bosch Customer.

Visit www.boschdiagnostics.com and see your preferred Bosch Distributor for more information.

Bosch Automotive Service Solutions, Inc.

28635 Mound Road
Warren, MI 48092
USA

tech@boschdiagnostics.com

855.267.2483