



Bosch ESI[truck] Heavy Duty Truck Software Update Version 2022/3

www.boschdiagnostics.com

Welcome

In version 2022/3, 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.

New 'ELS' Software Behavior

ELS stands for **Extended License Subscription**. We are excited to remind you that we have implemented functionality so your ESI Truck software will no longer stop functioning if you decide to not pay for the annual update.

In order for the ELS behavior to 'kick in', you are required to have purchased (and registered) your new tool or annual renewal **on, or after August 1, 2021**.

Of course, we believe you will still find sufficient value in our periodic updates and continue to purchase on an annual basis.

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

New Software Features

New Labor Time Guides

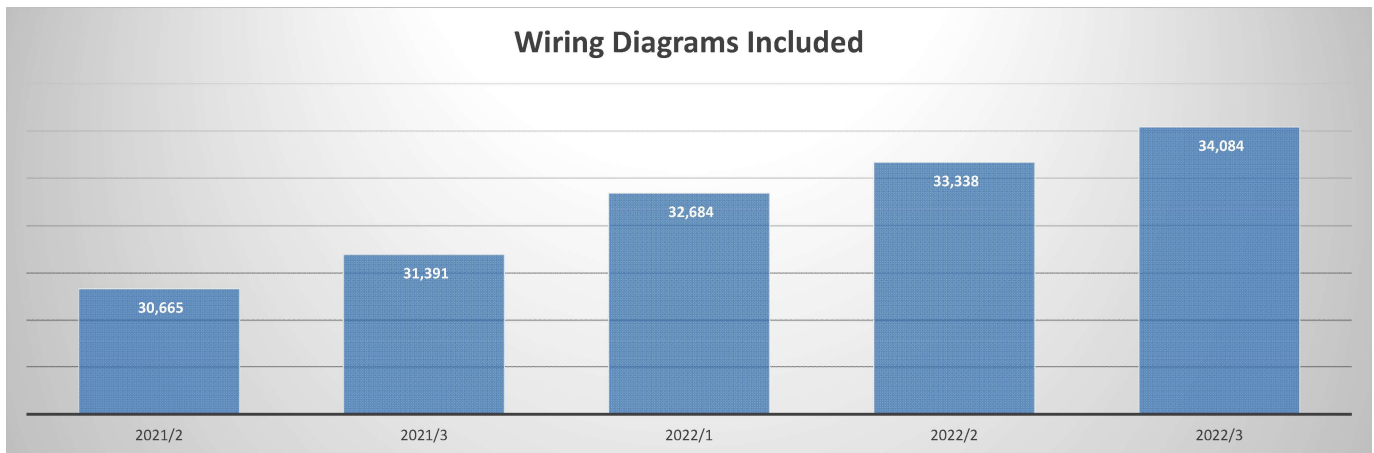
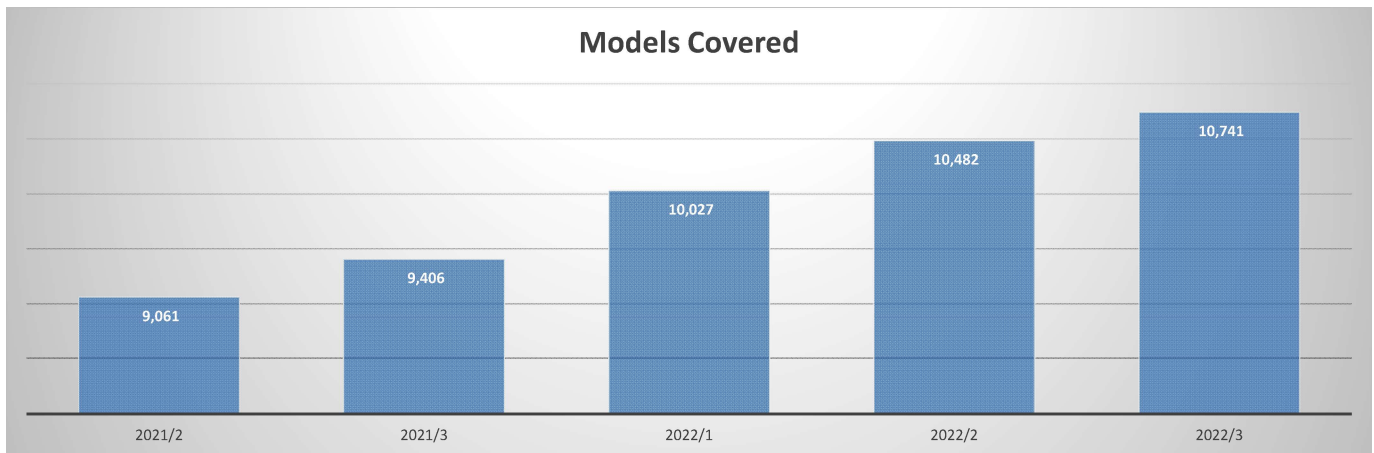
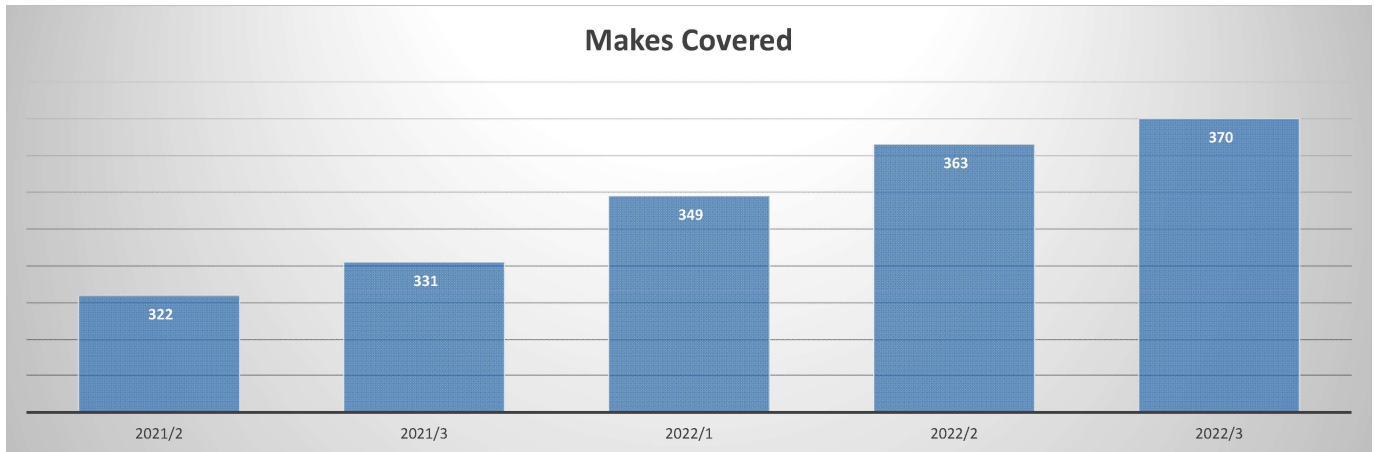
This update includes labor time guides that provides multiple manufacturer's estimates for how long it should take a technician to perform numerous repair actions. This feature also includes the ability to print out a full report for the selected vehicle.

Other New Functions

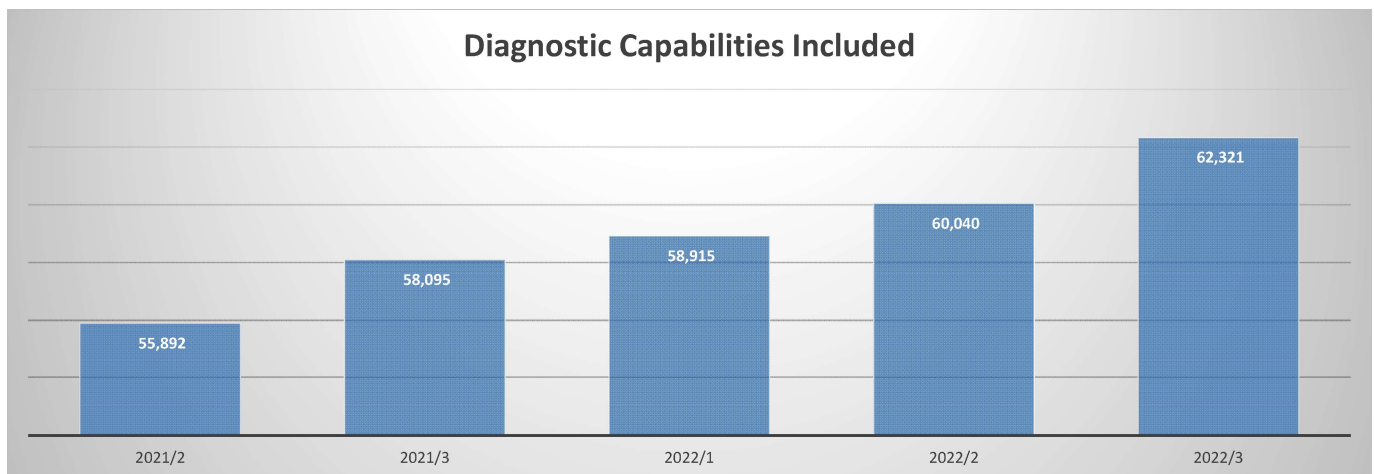
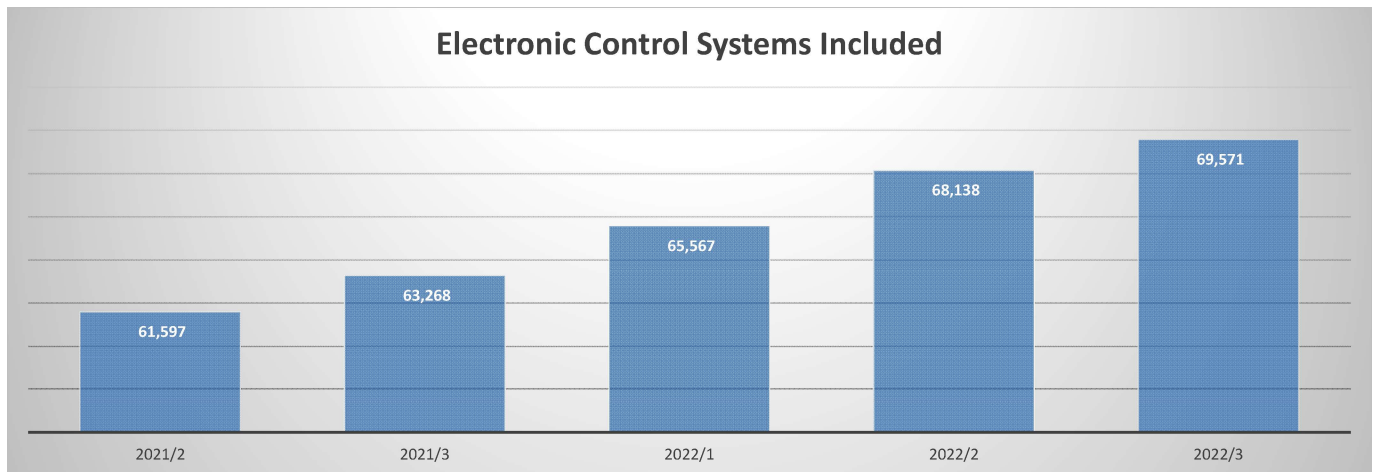
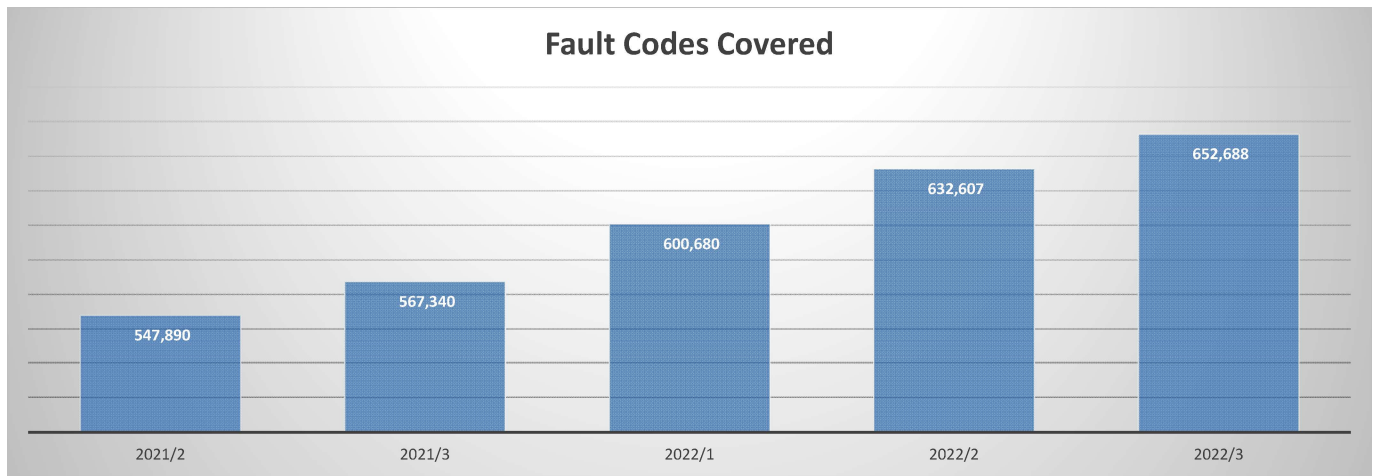
This update also includes the following functions and enhancements:

- Improved DTC Lookup functionality
- Additional Dynamic Elements in the System Display
- Simplified navigation to identify Trailer systems by Manufacturer

Expanding Coverage



Expanding Coverage (continued)



Additional Vehicle Coverage & Highlights

Heavy –Duty Truck

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

▶ ALLISON

- Allison 4th & 5th Gen of transmissions, new dynamic System Display available to help better understand the performance of the systems and processes, such as the gear shift.
- Allison 3000/4000 5th Gen transmission, configuration parameter reading.

▶ BENDIX

- TPMS 2.0 tire pressure monitoring system, signal quality test and event record.
- ABS/ATC U1X braking system, bi-directional tests, maintenance reset and 25 new troubleshooting guides.

▶ BENDIX

- EPA04/07 engine systems, support for new *.trim file format and engine type technical data for several engines such as C-7, C-9, C-12, etc.

▶ CUMMINS

- Extended coverage in all CUMMINS systems, for example, the maintenance process to switch off the MIL lamp has been developed in new CUMMINS systems and the DPF regeneration adds the dynamic SYSTEM DISPLAY.
- Furthermore, more than 100 new procedures to check systems and their components have been added.
- GHG 21 CM2450 engine systems:
 - o AdBlue/DEF pump test.
 - o L9 engine control system, cylinder cut-out, DPF regeneration, SCR efficiency test, among others.
 - o L9 & B6.7 engine control systems, reset of the differential pressure sensor of the EGR valve required for the repair of the DTC 1866.
 - o X12 & X15 engine control systems, smart coast, transmission configuration, etc.
- GHG 17 CM2350 engine systems:
 - o X12 & X15 engine control systems, parameter settings: accelerator type and parking brake switch.
 - o B4.5/6.7 engine control system, parameter settings: accelerator type and fuel economy adjustable by user.

▶ DANA

- New TIMS tire inflation and monitoring system including wiring diagrams, technical data, component images, manual diagnostics and much more.

▶ DETROIT DIESEL-MBE

- New Cascadia modules:
 - o Enhanced identification for all modules.
 - o New software references for modules installed on 2021-2022 vehicles.
 - o Live data for modules such as FNPAD01T, XMC02T, HVACF01T, HUS01T, etc.

▶ FREIGHTLINER

- Technical data in New Cascadia.

▶ INTERNATIONAL

- ESC/BC body controller, dynamic load of the bi-directional tests, therefore the supported tests will only be displayed.
- HVAC heating, ventilation and air conditioning, manual calibration procedure.

▶ NAVISTAR

- MaxxForce & SCR engines:
 - o A26 GHG21 engine control system, complete coverage for 2021 and newer engines including technical data, wiring diagrams, troubleshooting guides, maintenance services, calibrations, etc.
 - o MaxxForce engines, new parameter setting available such as IST, gear down protection, fan control, engine protection and much more. Furthermore, the causes and effects of all DTCs are displayed.

- ▶ PSI
 - New 8.8L Gasoline engine control system.
- ▶ PACCAR
 - Software reference improvement adding new variants. Furthermore, the web service identification has been added for all systems.
- ▶ VOLVO
 - New VECU 5 vehicle control unit installed in 2022 vehicles (GHG21).
 - New Airbag SRS V3.
 - TECU transmission, transmission verification checks (without installing on vehicle).
 - ACM exhaust gas aftertreatment system, AdBlue/DEF pressure build-up and Retarder pressure check.
 - VMCU V4 vehicle control system, configuration parameters of the PTO and the working light.

Trailers

- ▶ CARRIER
 - Engine type technical data of Carrier Supra, Carrier X Series and Carrier ComfortPro Diesel refrigeration systems and maintenance services of refrigeration units.

Light and Medium –Duty Truck Additional Coverage

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

▶ DODGE

- MFK ADAS system in Sprinter models, ADAS test and report and the camera calibration.

▶ FREIGHTLINER

- New systems such as BSN, DCU-LF, DCU-RF, OCP, PSM and much more.
- MRD1 engine control system, extended coverage with operation data, live data, bi-directional tests, tests such as the cylinder cut-out, etc.

▶ GMC/CHEVROLET

- Software references improvement with new variants.
- ECM L82/L84 (5.3 L V8) HSCAN engine control system, procedures such as the “Check for leaks on the fuel system”, wiring diagrams and troubleshooting guides.

▶ HINO

- New systems, the Inverter and the Battery controllers.

▶ ISUZU

- Extended coverage for 4JJ1-TC and 4HK1-TC (on K line) engine control systems installed in several models.
- The AdBlue/DEF System Display and R&I guides are also included.

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.

► Online Repair (Troubleshooting) module is free of charge during the promotional period **until the end of 2022**.

Agricultural Vehicles Additional Coverage

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

► New brands

- BOBCAT
- COE (Harvester of nuts and fruit trees)
- GUARESI (Tomato harvester).
- P. BARIGELLI & C
- PELLENC
- ROSTSELMASH

► New models

- CASE iH
 - Farmall A Series, engine: Interim Tier 4/Stage IIIB
 - Farmall Series, engine: Tier 5/Stage V
 - Luxxum Series, engine: Tier 5/Stage V
- Cotton harvester:
 - Cotton Express 420
 - Cotton Express 630
 - CPX 610
 - Module Express 625
- CHALLENGER
 - MT 700 Series, engine: Tier 5/Stage V
- FRANZ KLEINE
 - SF 20 Series
- FENDT
 - 1000 Vario MT Series, engine: Final Tier 4/Stage IV
- KIOTI
 - CK, DK, DX, NX and RX Series
- KUBOTA
 - M4N Series
 - M6H Series
 - L3 and L4 Series
- MASSEY FERGUSON
 - 2600 H Series
- NEW HOLLAND
 - T3LP Series, engine: Tier 5/Stage V
 - T4 V/N/F/LP Series, engine: Tier 5/Stage V
 - T5 Series - Electro Command, engine: Tier 5/Stage V
- STEYR
 - Kompakt Series, engine: Tier 5/ Stage V
 - MULTI Series, engine: Tier 5 / Stage V
- VALTRA
 - A 104 (AC56.5)
 - A 134 (AC56.5)
 - A 84S
 - A 94
 - BH Series
 - N 141LS (AC11.2)
 - T 191LS (AC11.2)

- T 195 CVT
 - T 250 CVT
- GREGOIRE
 - GL6.4 and GS6.4 olive and grape harvesters.
- JOHN-DEERE
 - CH600 Series sugar cane harvester.

ECM Kohler Tier 5/Stage V engine control system in brands such as ARBOS, LANDINI, McCORMICK or PASQUALI, among others, throttle valve check in the intake manifold and engine shutdown test. Reset of the Pressure Relief Valve (PRV) in Kohler Final Tier 4/Stage IV engines.

▶ CASE IH

In CNH group brands, the following features are of particular interest:

- New EDC MD1CS069 engine control system.
- Calibration procedures of the SFA front suspension control system, the Trans transmission and the RPTO rear power take-off.

▶ CHALLENGER

- EEM4 - EDC 17 CV41 engine control system in MT 800E Series models, aftertreatment system fault clearing.
- C-15 and C-18 (on SAE J1939) Caterpillar engine control systems, air metering check and heater check of the exhaust gas aftertreatment system.
- MCM central computer, transmission calibration in MT 700D Series, MT 700E Series and MT800E Series models.
- New technical data, wiring diagram settings and images in the AUTOPOWER IV system in MT 400B Series, engine models: Tier 2/Stage II.

▶ CLAAS

- HLHP central computer in the Atos (A78/A79/A98/A99) model, calibrations.
- C-15 and C-18 (on SAE J1939) Caterpillar engine control systems, air metering check and heater check of the exhaust gas aftertreatment system.
- C-9.3 (on SAE J1939) Caterpillar engine control system in Lexion Series and Tucano Series models, air metering check and heater check of the exhaust gas aftertreatment system.
- In addition, new wiring diagram settings in the 1204F (on SAE J1939) Perkins control system in Avero Series models.

▶ DEUTZ-FAHR

- Calibrations and maintenance resets of the transmission oil change, the transmission oil filter, and the spool valve oil change in the SECU system in 6 Series and 7 Series models. The coverage extend will depend on the system model and variant.
- HLHP central computer in the 5G Series model, calibrations.
- Vehicle technical data in 5P Series models.

▶ FENDT

- MAN EDC 17 CV42 engine control system in 1000 Vario Series and 900 Vario Series (GEN6) models, injector coding and AdBlue/DEF filter replacement.
- Maintenance interval reset in the instrument cluster in new Final Tier 4/ Stage IV models.

▶ FRANZ KLEINE

- EDC Volvo engine control system, idle speed setting and injector coding.

▶ GLEANER

- C-13 (on SAE J1939) Caterpillar engine control system in Lexion Series and Tucano Series models, air metering check and heater check of the exhaust gas aftertreatment system.

▶ JOHN DEERE

Improved quick system scan, achieving times of less than 1 minute.

Vehicle technical data in several brand models.

- EDC Denso Yanmar engine control system in 3E Series, 3R Series, 4M Series and 4R Series models, Diesel Oxidation Catalyst replacement (DOC).
- HCC hydraulic lift in 5R Series models, system calibration.
- HCC hydraulic lift in 8030 Series models, parameter setting.
- ATC automatic heating system in 9R Series models, climate control calibration and parameter modification.
- Dynamic System Display in the SFA front suspension and the CSC cabin control systems in 6M Series, 6R Series and 7R Series models.
- In addition, new wiring diagram settings in the QSX 15 CM2350 Cummins engine control system in 9R Series models and new technical data of the 8R Series model with 6090H (Level 33) – Final Tier 4/Stage IV engine.

▶ KIOTI

- New EDC Kioti engine control system.

▶ LAMBORGHINI

- Maintenance resets of the transmission oil change, the transmission oil filter, and the spool valve oil change in the SECU system in Mach Series models.

▶ LINDNER

- New wiring diagram settings in the Perkins engine control systems in Geotrac and Lintrac models.

▶ MASSEY FERGUSON

- New Simpson EEM engine control system.
- In addition, new wiring diagram settings in the Autotronic 5 – Dyna 4 GPA 20/GPA 50 control system in 5400 Series models.
- MAN EDC 17 CV42 engine control system in Ideal Series models, injector coding and AdBlue/DEF filter replacement.

▶ NEW HOLLAND

- In CNH group brands, the following features are of particular interest:
- R1 transmission module that includes the calibration procedure.
- BRK brake control system, air purge.
- DEC CVT transmission, calibration data modification.
- Calibrations in the SECU system in Fortis 100 Series, Fortis 100.4 Series, etc. models. The coverage extend will depend on the system model and variant. For example, the calibration of the Powershift and the calibrations of the rear lift position sensor and the hitch draft sensor are in the Fortis 200 Series model.

▶ STEYR

- In CNH group brands, the following features are of particular interest:
- R1 transmission module that includes the calibration procedure.
- Calibration procedures of the TCU2 transmission and the EDC hydraulic lift.

▶ VALTRA

- Maintenance service reset in several brand models.

Construction Vehicles Additional Coverage

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

▶ New brands

- MANITOWOC
- PAUS
- SPIERINGS
- EUROCOMACH
- GIANT
- HOLDER
- MITSUBISHI

▶ New models in the following brands

- AUSA
- BOBCAT
- CASE CE
- NEW HOLLAND CE
- SANY and WEIDEMANN

▶ BOBCAT

- New Gateway module for E Series compact excavators.
- New IC instrument cluster for 430 Series compact excavators.

▶ CASE CE

- Wiring diagram settings of the EDC 17 C49 engine control system for TR 300 Series and TV 300 Series models, and EDC 7 UC31 engine control system for SR 220 Series and SR 250 Series skid-steer loaders.

▶ CATERPILLAR

- (On SAE J1939) Caterpillar engine control systems, air metering check and heater check of the exhaust gas aftertreatment system.
- C-4.4 and C-6.6 (on CDL) engine control systems, check of the turbocharger wastegate valve.
- ARD exhaust gas aftertreatment system, air metering check of the exhaust gas aftertreatment system.
- EHCU (on SAE J1939) hydraulic control system, calibrations.
- MCM central computer for D Series dozers, transmission calibration, service brake calibration and steering control joystick calibration.
- In addition, new wiring diagram settings available in the brand. For example, in the IC instrument cluster for 320 Series crawl excavators, in the C-4.4 engine control system for M310 Series wheel excavators and in the MCM central computer for 960 Series wheel loaders, among others.

▶ DIECI

- Technical data in new engine types of the AB 7000 Series model.

▶ GRADALL

- EMS V3 Volvo engine control system, preheating activations, heat preservation check and parameter modification concerning the engine heating.

▶ HIDREMA

- ECM Perkins 1100D Series engine control system, cylinder cut-out.

▶ JCB

- ECM (on SAE J1939) Perkins 403J/404J engine control system, injector test, intake/exhaust valve check, injection rail pressure test, etc.
- Transmissions for CX Series models, extension of measurements, control solenoid valve activation and warning lamp activation.
- Technical data in new engine types of Hydradig Series family models.
- Technical data in new engine types of X Series family models.

▶ KÄSSBOHRER GELÄNDEFahrZEUG

- Wiring diagram settings in the EDC VW system in Canyon model.

▶ KOMATSU

- New MCM central computer for monitor N.
- New Instrument cluster for the monitor N.

▶ TEREX

- New Allison CEC2 5000/6000/8000/9000 Series transmission.

▶ NEW HOLLAND CE

- New Smart Fuse Box system for wheel loaders.

▶ VOLVO CE

- IC instrument cluster, accelerator pedal check.
- V2ECU vehicle electronic control unit, float valve check and parameter setting of the raising/lowering and loading/dumping control valves.
- Wiring diagram settings in the CU climate control systems for A Series articulated hauler.
- CCM V3 climate control for L Series (XY H) wheel loaders, parameter setting. In addition, new wiring diagram settings.

▶ WACKER NEUSON

- VCU central computer for compact excavators and compact dumpers.

▶ WEIDEMANN

- ECM Perkins 400 Series Tier 4/Stage IV engine control system, activations, cylinder cut-out, injector coding and high-pressure pump calibration.

▶ WEILER

- ARD exhaust gas aftertreatment system, air metering check of the exhaust gas aftertreatment system.

▶ XCMG

- EDC V2 Volvo engine control system, idle speed setting and injector coding

Stationary Engines Additional Coverage

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

▶ CATERPILLAR

- (On SAE J1939) Caterpillar engine control systems, air metering check and heater check of the exhaust gas aftertreatment system.
- Wiring diagram setting in the EMCP system for C-3.4B engines.

▶ CUMMINS

- New QSF 2.8/3.8 CM2880
- New 4D95 3.3 CM2350
- New F3.8 CM2350

(All systems include extensive coverage of advanced functions)

- B4.5/6.7 CM2350 engine control system, fan activation, parameter modification of the fuel economy setting and the switching off MIL lamp reset.
- QSB 4.5/6.7 CM2350 engine control system, parameter setting of the engine brake and the starter motor locking.
- Technical data in engine types of the L9 model.

▶ DEUTZ

- EMR4 EDC 17 CV52 and EMR5 EDC MD1 wiring diagram settings in several brand models.

▶ JCB

- DieselMax 430 (Stage V) engine control system.
- Technical data in several engine types, for example in the EcoMax model, among others.

▶ PERKINS

- ECM 400 Series Tier 4/Stage IV engine control system, activations, cylinder cut-out, injector coding and high-pressure pump calibration.
- ECM 1100D Series engine control system, cylinder cut-out.
- Technical data of the 904J engine.

▶ VOLVO PENTA

- EMS V3 engine control system, preheating activations, heat preservation check and parameter modification concerning the engine heating. This version, this system also includes new wiring diagram settings in the stationary engine paths.
- EDC V2 engine control system, idle speed setting and injector coding.
- Technical data of D5, D6 and D7 engines.

- ▶ YANMAR
 - EDC Denso engine control system, Diesel Oxidation Catalyst replacement (DOC).
- ▶ KOHLER
 - Technical data and wiring diagram settings.
- ▶ KOHLER
 - Technical data and wiring diagram settings.

Multi-Purpose Vehicles Additional Coverage

New content has been added in the following Multi-Purpose vehicles:

Wiring diagram settings in the EDC VW system in models of AUSA, BOSCHUNG, CMAR and SCHMIDT brands.

- ▶ NILFIX
 - ECM 400 Series Tier 4/Stage IV engine control system, activations, cylinder cut-out, injector coding and high-pressure pump calibration.
- ▶ PIQUERSA
 - ECM (on SAE J1939) Perkins 403J/404J engine control system, injector test, intake/exhaust valve check, injection rail pressure test, etc.
- ▶ RAVO
 - Technical data in engine types of 5 Series family models.
- ▶ SCARAB
 - EMR4 – EDC 17 CV52 Deutz engine control system. It includes the throttle valve check in the intake manifold, the Diesel Particulate Filter replacement and the soot content reset.

Thank you for being a loyal Bosch Customer.

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

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