



## Proprietary Fault Support

– Heavy & Medium-Duty (Class 3-8) –

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[FORD](#)

[GM](#)

[HALDEX](#)

[SPRINTER](#)

[WABASH](#)

[WABCO](#)

### BODY & CHASSIS

[BLUEBIRD](#)

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[FREIGHTLINER](#)

[GM](#)

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[SPRINTER](#)

[STERLING](#)

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[VOLVO](#)

[WESTERN STAR](#)

### CTIS

[DANA](#)

### DAS

[BENDIX](#)

### ENGINES

[CATERPILLAR](#)

[CLEARFLAME](#)

[CUMMINS](#)

[DETROIT DIESEL](#)

[DEUTZ](#)

[ECONTROLS](#)

[FORD](#)

[GM](#)

[HINO](#)

[INTERNATIONAL](#)

[ISUZU](#)

[MACK](#)

[MERCEDES](#)

[PACCAR MX](#)

[SPRINTER](#)

[VOLVO](#)

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[ALLISON](#)

[DETROIT](#)

[EATON](#)

[FORD](#)

[GM](#)

[MACK](#)

[SPRINTER](#)

[VOLVO](#)

[ZF](#)

### TPMS

[BENDIX](#)

## Bi-Directional

– Parameter Tests, Functionality & Reporting–

### HEAVY-DUTY

[BENDIX](#)

[CATERPILLAR](#)

[CUMMINS](#)

[DANA](#)

[DETROIT](#)

[HINO](#)

[INTERNATIONAL](#)

[MACK](#)

[MERCEDES-BENZ](#)

[PACCAR](#)

[VOLVO](#)

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# ENGINE SUPPORT

## Heavy-Duty Support for Caterpillar (ON-HIGHWAY)

- Support reading proprietary diagnostic fault codes and event codes for all Caterpillar engines.
- Supports proprietary sensor data for all Caterpillar engines.
- **Bi-directional support for Caterpillar engines:**
  - **Cruise Control Speed Limits**
    - + **Low Cruise Control Speed Limit, High Cruise Control Speed limit**
      - 3126, C12, and C18 engines | C-15 pre-ACERT engines (before 2004) | **EPA 04:** C7, C9, C13, C15, and C18 ACERT engines | **EPA 07:** C7, C13, and C15 ACERT engines
  - **Cylinder Cut Out Tests**
    - 3126, C12, and C18 engines | C-15 pre-ACERT engines (before 2004) | **EPA 04:** C7, C9, C13, C15, and C18 ACERT engines | **EPA 07:** C7, C13, and C15 ACERT engines
  - **Idle Shutdown**
    - + **Idle Shutdown Time, Idle Shutdown Override**
      - 3126, C12, and C18 engines | C-15 pre-ACERT engines (before 2004) | **EPA 04:** C7, C9, C13, C15, and C18 ACERT engines | **EPA 07:** C7, C13, and C15 ACERT engines
  - **Injection Actuator Pressure Test**
    - 3126 engines | **EPA 04:** C7 and C9 ACERT engines
  - **Injector Solenoid Test**
    - 3126, C12, and C18 engines | C-15 pre-ACERT engines (before 2004) | **EPA 04:** C7, C9, C13, C15, and C18 ACERT engines | **EPA 07:** C7, C13, and C15 ACERT engines
  - **Injector Trim Calibration**
    - C-15 pre-ACERT engines (before 2004) | **EPA 04:** C7, C9, C13, and C15 ACERT engines
  - **Intake Valve Actuator Test**
    - **EPA 04:** C13 and C15 ACERT engines | **EPA 07:** C13 and C15 ACERT engines
  - **Intake Valve Actuator Solenoid Test**
    - **EPA 04:** C13 and C15 ACERT engines | **EPA 07:** C13 and C15 ACERT engines
  - **Maximum Vehicle Speed Limit**
    - + **Vehicle Speed Limit**
      - 3126, C12, and C18 engines | C-15 pre-ACERT engines (before 2004) | **EPA 04:** C7, C13, and C15 ACERT engines | **EPA 07:** C7, C13, and C15 ACERT engines
  - **Parked DPF Service Regeneration**
    - **EPA 07:** C7, C13, and C15 ACERT engines

## Heavy-Duty Support for ClearFlame

- Supports faults and sensor data for ClearFlame engines.

## Heavy-Duty Support for Cummins

- Supports reading Cummins Proprietary Fault Codes on all EPA 07 and newer Cummins engines.
- Supports proprietary sensor data on all EPA 07 and newer Cummins engines.
- Supports reading proprietary NOx sensor data on all EPA 13 and newer Cummins engines.
- Supports Cummins CNG (compressed natural gas) engines including proprietary fault codes and sensor data.
- **Bi-directional support for Cummins engines:**
  - **Aftertreatment History**
    - **EPA 10:** all ISB, ISC, ISL, and ISX | **EPA 13:** all ISB, ISL, and ISX | **GHG17:** all B6.7, L9, and X15 | **GHG21:** all B6.7, L9, and X15
  - **Aftertreatment Injector Flow Test**
    - **EPA 07:** all ISX (15L) | **EPA 10:** all ISX (12 & 15L) | **EPA 13:** all ISX (12 & 15L)
  - **Aftertreatment Injector Leak Test**
    - **EPA 07:** all ISX (15L) | **EPA 10:** all ISX (12 & 15L) | **EPA 13:** all ISX (12 & 15L)
  - **Aftertreatment Injector Shutoff Valve Test**
    - **EPA 07:** all ISX (15L) | **EPA 10:** all ISX (12 & 15L) | **EPA 13:** all ISX (12 & 15L)
  - **Aftertreatment Maintenance Reset**
    - **EPA 07:** all ISB, ISC, ISL, ISM, ISX, PX-6, and PX-8 | **EPA 10:** all ISB, ISC, ISL, ISX, PX-6, and PX-8 | **EPA 13:** all ISB, ISL, ISX, PX-7, and PX-9 | **GHG17:** all B6.7, L9, X15, PX-7, and PX-9 | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9
  - **Cylinder Cut Out**
    - **EPA 02:** ISB (3.9L) | **EPA 07:** all ISB, ISC, ISL, ISM, ISX, PX-6, and PX-8 | **EPA 10:** all ISB, ISC, ISL, ISX, PX-6, and PX-8 | **EPA 13:** all ISB, ISL, ISX, PX-7, and PX-9 | **GHG17:** all B6.7, L9, X15, PX-7, and PX-9 | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9
  - **Cylinder Misfire Monitor Tests**
    - **CNG:** all ISX 12G and ISX12N

- **DEF Doser Pump Override Test**
  - **EPA 10:** all ISB, ISC, ISL, ISX, PX-6, and PX-8 | **EPA 13:** all ISB, ISL, ISX (12L and 15L), and PX-7 | **GHG17:** all B6.7, L9, X15, PX-7, and PX-9 | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9
- **DEF System Heater Test**
  - **EPA 10:** all ISB, ISC, ISL, ISX, PX-6, and PX-8 | **EPA 13:** all ISB, ISL, ISX, PX-7, and PX-9 | **GHG17:** all B6.7, L9, X15, PX-7, and PX-9 | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9
- **DEF System Leak Test**
  - **EPA 10:** all ISB, ISC, ISL, ISX, PX-6, and PX-8 | **EPA 13:** all ISB, ISL, ISX (12L and 15L), PX-7, and PX-9 | **GHG17:** all B6.7, L9, X12, and X15 | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9
- **DPF Service Regen**
  - **EPA 07:** all ISB, ISC, ISL, ISM, ISX, PX-6, and PX-8 | **EPA 10:** all ISB, ISC, ISL, ISX, PX-6, and PX-8 | **EPA 13:** all ISB, ISL, ISX, PX-7, and PX-9 | **GHG17:** all B6.7, L9, X12, X15, PX-7, and PX-9 | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9
- **Engine Protection Parameters**
  - + **Limited Restart, Shutdown, and Shutdown Manual Override**
    - **EPA 07:** all ISB, ISC, ISL, ISM, ISX, PX-6, and PX-8 | **EPA 10:** all ISB, ISC, ISL, ISX, PX-6, and PX-8 | **EPA 13:** all ISB, ISL, ISX, PX-7, and PX-9 | **GHG17:** all B6.7, L9, X15, PX-7, and PX-9 | **CNG:** all ISX 12G and ISX12N | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9
    - **NOTE:** Access to this can be removed. Contact Noregon support for more information.
- **Fan Override Test**
  - **EPA 10:** all ISB, ISC, ISL, and ISX | **EPA 13:** all ISB, ISL, and ISX | **GHG17:** all B6.7, L9, and X15 | **GHG21:** all B6.7, L9, and X15
- **Fuel Injector Calibration**
  - **EPA 07:** all ISC, ISL, ISX (12L and 15L), and PX-8 with Common Rail Fuel Systems | **EPA 10:** all ISC, ISL, ISX (12L and 15L), and PX-8 with Common Rail Fuel Systems
- **Fuel Injector Performance Test**
  - **EPA 10:** all ISX (12 & 15L) | **EPA 13:** all ISX (12 & 15L) | **GHG17:** all L9, X12, and X15 | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9
- **Fuel Injector Reset**
  - **EPA 13:** all ISB, ISL, ISX, PX-7, and PX-9 | **GHG17:** all B6.7, L9, X15, PX-7, and PX-9 | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9
- **Fuel Leakage Test**
  - **EPA 10:** all ISB, ISC, ISL, ISX (12L and 15L), PX-6, and PX-8 with Common Rail Fuel Systems | **EPA 13:** all ISB, ISL, ISX (12L and 15L), PX-7, and PX-9 with Common Rail Fuel Systems | **GHG17:** all B6.7, L9, X15, PX-7, and PX-9 with Common Rail Fuel Systems | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9 with Common Rail Fuel Systems
- **Fuel System Table Reset**
  - **CNG:** all ISX 12G and ISX12N
- **Idle Shutdown**
  - + **Idle Shutdown Status, Idle Shutdown Time**
    - **EPA 07:** all ISB, ISC, ISL, ISM, ISX, PX-6, and PX-8 | **EPA 10:** all ISB, ISC, ISL, ISX, PX-6, and PX-8 | **EPA 13:** all ISB, ISL, ISX, PX-7, and PX-9 | **GHG17:** all B6.7, L9, X15, PX-7, and PX-9 | **CNG:** all ISX 12G and ISX12N | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9
- **J1939 Datalink Control Test**
  - **EPA 07:** all ISC, ISL, ISX (12L and 15L), PX-6, and PX-8 | **EPA 10:** all ISB, ISC, ISL, and ISX | **EPA 13:** all ISB, ISL, and ISX | **GHG17:** all B6.7, L9, and X15 | **GHG21:** all B6.7, L9, and X15
- **Maintenance Monitor Parameters**
  - **EPA 10:** all ISB, ISC, ISL, and ISX | **EPA 13:** all ISB, ISL, and ISX | **GHG17:** all B6.7, L9, and X15 | **CNG:** all ISL, ISX, and ISB
- **PTO Parameters**
  - + **PTO:** Enable/Disable, Additional Switch Pedal, Maximum Engine Load, Maximum Speed, Minimum Speed, Maximum Vehicle Speed, Ramp Rate, Resume Switch Speed, Set Switch Speed | **ACCELERATOR PEDAL OR LEVER OVERRIDE:** Enable/Disable, and Maximum Engine Speed
    - **EPA 07:** all ISB, ISC, ISL, ISM, ISX, PX-6, and PX-8 | **EPA 10:** all ISB, ISC, ISL, ISX, PX-6, and PX-8 | **EPA 13:** all ISB, ISL, ISX, PX-7, and PX-9 | **GHG17:** all B6.7, L9, X15, PX-7, and PX-9 | **CNG:** all ISX 12G and ISX12N | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9
    - **NOTE:** Access to this can be removed. Contact Noregon support for more information.
- **Road & Cruise Speed Limits**
  - + **Road Speed Governor:** Maximum Vehicle Speed, Maximum Accelerator Vehicle Speed, Lower Droop, Upper Droop | **Cruise Control:** Maximum Cruise Control Speed | **Gear Down Protection:** Enable/Disable, Gear Down Maximum Vehicle Speed (Heavy Engine Load), Gear Down Maximum Vehicle Speed (Light Engine Load)
    - **EPA 07:** all ISB, ISC, ISL, ISM, ISX, PX-6, and PX-8 | **EPA 10:** all ISB, ISC, ISL, ISX, PX-6, and PX-8 | **EPA 13:** all ISB, ISL, ISX, PX-7, and PX-9 | **GHG17:** all B6.7, L9, X15, PX-7, and PX-9 | **CNG:** all ISX 12G and ISX12N | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9
    - **NOTE:** Access to this can be removed. Contact Noregon support for more information.
- **SCR Performance and System Test**
  - **EPA 13:** all ISB, ISL, ISX, PX-7, and PX-9 | **GHG17:** all B6.7, L9, X12, X15, PX-7, and PX-9 | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9
- **Trip Information Parameters**
  - + **Vehicle Overspeed 1, Vehicle Overspeed 2**
    - **EPA 07:** all ISB, ISC, ISL, ISM, ISX, PX-6, and PX-8 | **EPA 10:** all ISB, ISC, ISL, ISX, PX-6, and PX-8 | **EPA 13:** all ISB, ISL, ISX, PX-7, and PX-9 | **GHG17:** all B6.7, L9, X15, PX-7, and PX-9 | **CNG:** all ISX 12G and ISX12N | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9
    - **NOTE:** Access to this can be removed. Contact Noregon support for more information.
- **Trip Reset**
  - **EPA 07:** all ISB, ISC, ISL, ISM, ISX, PX-6, and PX-8 | **EPA 10:** all ISB, ISC, ISL, ISX, PX-6, and PX-8 | **EPA 13:** all ISB, ISL, ISX, PX-7, and PX-9 | **GHG17:** all B6.7, L9, X15, PX-7, and PX-9 | **CNG:** all ISX 12G and ISX12N | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9

- **VGT Electronic Actuator Installation and Calibration**

- **EPA 07:** all ISB, ISC, ISL, ISM, ISX, PX-6, and PX-8 | **EPA 10:** all ISB, ISC, ISL, ISX, PX-6, and PX-8 | **EPA 13:** all ISB, ISL, ISX, PX-7, and PX-9 | **GHG17:** all B6.7, L9, X15, PX-7, and PX-9 | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9

- **VGT Hysteresis Test**

- **EPA 10:** all ISB, ISC, ISL, ISX (12L and 15L), PX-6, and PX-8 with Common Rail Fuel Systems | **EPA 13:** all ISB, ISL, ISX (12L and 15L), PX-7, and PX-9 with Common Rail Fuel Systems | **GHG17:** all B6.7, L9, X15, PX-7, and PX-9 with Common Rail Fuel Systems | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9

- **VSS Parameters**

- + **Vehicle Speed Sensor Anti-Tampering Sensitivity:** *Tampering Sensitivity Level* | **Vehicle Speed Source:** *Maximum Engine Speed Without Vehicle Source, Number of Transmission Tailshaft Gear Teeth, Rear Axle Ratio, Vehicle Speed Sensor Type*
- **EPA 07:** all ISB, ISC, ISL, ISM, ISX, PX-6, and PX-8 | **EPA 10:** all ISB, ISC, ISL, ISX, PX-6, and PX-8 | **EPA 13:** all ISB, ISL, ISX, PX-7, and PX-9 | **GHG17:** all B6.7, L9, X15, PX-7, and PX-9 | **CNG:** all ISX 12G and ISX12N | **GHG21:** all B6.7, L9, X15, PX-7, and PX-9
- **NOTE:** *Access to this can be removed. Contact Noregon support for more information.*

## Heavy-Duty Support for Detroit Diesel

- Supports proprietary sensor data on all 2000 model year and newer Detroit engines with supported ECU Software Versions:

- **DD5, DD8, DD13, DD15, DD16, Series 50, Series 55, and Series 60**

- **NOTE:** *JPRO must connect and identify the correct Detroit Diesel engine module software versions (CPC, MCM, and/or ACM) to enable bi-directional support. The following features are only available for Supported ECU Software Versions.*
- **NOTE:** *To see the Software Version, select the engine and look in the bottom left of JPRO.*

- **Bi-Directional support for Detroit Diesel engines:**

- **Cruise Speed Limits**

- + **Max Cruise Set Speed, Min Cruise Set Speed**
- **CPC02T | CPC04T | CPC302T | CPC501T**
- **NOTE:** *Access to this can be removed. Contact Noregon support for more information*

- **Cylinder Cut Out**

- Any supported CPC with **MCM02T** or **MCM21T**

- **DEF Coolant Valve Control Test**

- Any supported CPC with **ACM02T** | Any supported CPC with **MCM21T** and **ACM21T** or **ACM301T**

- **DEF Quantity Test**

- Any supported CPC with **ACM02T, ACM21T, or ACM301T**

- **DOC Face Plug Cleaning**

- **CPC02T** with **MCM02T** | **CPC04T** with **MCM02T** or **MCM21T**

- **DPF Ash Accumulator Reset**

- **CPC02T** with **ACM02T** | **CPC04T** with **ACM21T** | **CPC302T** with **ACM21T** or **ACM301T** and **MCM21T** | **CPC501T** with **MCM21T** and **ACM21T** or **ACM301T**

- **DPF Service Regen**

- **CPC02T | CPC04T | CPC302T | CPC501T** with **ACM02T, ACM21T, or ACM301T**

- **EGR Actuator Slow Learn**

- **DD13** any supported CPC with **MCM02T** | **DD15** or **DD16** any supported CPC with **MCM21T**

- **EGR Delta Pressure Sensor Recalibration**

- **DD13** any supported CPC with **MCM02T** | **DD15** or **DD16** any supported CPC with **MCM21T**

- **Hydrocarbon Doser Purge**

- Any supported CPC with **MCM02T** or **MCM21T**

- **Idle Shutdown**

- + **Idle Shutdown Status, Idle Shutdown Time**
- **CPC02T | CPC04T | CPC302T | CPC501T**

- **Intake Throttle Valve Test**

- Any supported CPC with **MCM02T**

- **Metering Unit Flood Routine**

- Any supported CPC with **MCM02T**

- **Parked SCR Efficiency Test**

- **CPC02T** with **ACM02T** | **CPC04T** with **ACM02T** or **ACM21T** | **CPC302T** with **ACM21T** or **ACM301T** | **CPC501T** with **ACM21T** or **ACM301T**

- **Performance Check Low Temp ATD**

- **CPC02T** with **MCM02T** | **CPC04T** with **ACM02T** or **ACM21T** | **CPC302T** with **ACM21T**

- **PTO Parameters**

- + **General PTO** (*Config PTO Speed control, PTO Remote Throt Override Mode, Throttle Override Max Eng Speed, PTO Dropout Serv Brk Prk Brk, PTO Dropout on Clutch Enabled, Max Road Speed in PTO Mode, PTO Ramp Rate, PTO Cab Switches Mode, PTO Accel Pedal Override Mode, RPM Increment*) | **Cab PTO** (*Min PTO Spd Set Coast Sw, Max PTO Spd Resume Accel Sw, Set Coast Switch PTO Speed, Resume Accel Switch PTO Speed*) | **Remote PTO** (*Remote PTO Spd Selection Mod, No of Speeds Via Remote PTO, Spd 1 Via Remote PTO, Spd 2 Via Remote PTO, Spd 3 Via Remote PTO*) | **Inputs** (*2 08 DI Selection, 2 09 DI Sw Config (EPA 10 Only), 2 09 DI Selection (EPA 13 only), Remote Accelerator Enable*)
- **CPC02T | CPC04T | CPC501T**

- **Road Speed Limits**
  - + **Maximum Road Speed Limits**
    - **CPC02T | CPC04T | CPC302T | CPC501T**
      - **NOTE:** Access to this can be removed. Contact Noregon support for more information.
- **SCR Air Pressure System Check**
  - Any supported CPC with **ACM02T**
- **SCR Airless Doser System (ADS) Self Check**
  - Any supported CPC with **ACM02T** or **ACM21T**
- **SCR Output Component Test**
  - Any supported CPC with **ACM02T** and **MCM02T** or **MCM21T** | Any supported CPC with **ACM21T** and **MCM02T** or **MCM21T**
- **VSS Parameters**
  - + **Vehicle Speed Sensor, Axle Ratio, Tire Revs Per Unit Distance, Top Gear Ratio, Second Highest Gear Ratio, Number of Output Shaft Teeth, Anti Tamper, VSS Absolute Diagnostics Limit (EPA 13 only), VSS Driving Diagnostic Limit (EPA 13 only), Wheel Revs Front Axle NR (EPA 13 only)**
    - **CPC02T | CPC04T | CPC501T**
      - **NOTE:** Access to this can be removed. Contact Noregon support for more information.

## Supported ECU Software Versions

CPC Family ECUs				ACM Family ECUs			MCM Family ECUs	
CPC02T	CPC04T	CPC301T	CPC501T	ACM02T	ACM21T	ACM301T	MCM02T	MCM21T
App_010C	App_040A	App_2104	App_3105	acm_0x01EE	acm_0x023E	acm_0x0354	mcm_0x047B	mcm_0x0682
App_010D	App_040B	App_2105	App_3106	acm_0x01EF	acm_0x024E	acm_0x0359	mcm_0x047C	mcm_0x0689
App_010E	App_040D	App_2107	App_3107	acm_0x01F0	acm_0x0211	acm_0x035C	mcm_0x047D	mcm_0x06C1
	App_040E	App_2108	App_3108	acm_0x01F3	acm_0x0213		mcm_0x047E	mcm_0x06DB
	App_0406	App_2109	App_3109	mcm_0x0477	acm_0x0221		mcm_0x0477	mcm_0x06DE
	App_0407				acm_0x0232			mcm_0x06ED
	App_0408				acm_0x0236			mcm_0x06EF
	App_0409				acm_0x0250			mcm_0x06F2
	App_0410							mcm_0x06F6
	App_0411							mcm_0x2A1B
	App_0412							mcm_0x2A13
	App_0413							
	App_0414							

## Heavy-Duty Support for Deutz

- Supports reading and clearing SAE faults.
- Supports reading proprietary sensor data for the listed Deutz engines::
  - **EMR 3 - EDC 16 UC40** on TBL-180
  - **EMR 3 - EDC 7 UC31** on TBL-180
  - **EMR 4 - EDC 17 CV52** on TBL-180 and TBL-400
  - **EMR 4 - EDC 17 CV54** on TBL-180
  - **EMR3 - EDC 16 UC40** on Safeaero 220 and Tug MT
  - **EMR3 - EDC 7 UC31** on Safeaero 220 and Tug MT
  - **EMR4 - EDC 17 CV52** on Safeaero 220, Tug 660, Tug GT-35, Tug M1A, Tug MA, Tug MH, and Tug MR
  - **EMR4 - EDC 17 CV54** on Tug GT-35, Tug MH, and Tug MR
  - **EMR4 - EDC 17 CV56** on Safeaero 220
    - **NOTE:** Deutz 12-pin Off-Highway cables are required.

## Heavy-Duty Support for EControls

- Supports reading SAE faults and data on EControls engines:
  - **EControls ECM** on Tug 660, Tug M1A, and Tug MA
  - **EControls ECM 4G** on Tug 660, Tug Alpha, Tug M1A, and Tug MA
    - **NOTE:** EControls 8-pin Off-Highway cables are required.

# Heavy-Duty Support for International

- Supports proprietary sensor data on all EPA 07 and newer International engines
- **Bi-Directional support for International engines:**
  - **Actuator Tests**
    - + **Aftertreatment (AFT) Fuel Shutoff Valve**
      - o **EPA 10:** Maxxforce 11 and 13 engines | **A26** GHG17 engines
    - + **Aftertreatment (AFT) Fuel Doser**
      - o **EPA 10:** Maxxforce 11 and 13 engines
    - + **NEW! Aftertreatment (AFT) Purge Air Actuator**
      - o **NEW! A26** GHG17 engines
    - + **NEW! Diesel Exhaust Fluid (DEF) Line Heaters**
      - o **NEW! A26** GHG17 engines
    - + **NEW! Engine Fuel Actuator Control 1 (Pump)**
      - o **NEW! A26** GHG17 engines
    - + **NEW! Engine Fuel Actuator Control 2 (Rail)**
      - o **NEW! A26** GHG17 engines
    - + **Engine Throttle Valve (ETV) Position**
      - o **EPA 10:** Maxxforce 11 and 13 engines | **2013:** N13 engines and A26 engines
    - + **Exhaust Gas Recirculation (EGR) Valve Position**
      - o **EPA 10:** Maxxforce 11 and 13 engines | **2013:** N13 engines and A26 engines
    - + **Exhaust Back Pressure Valve**
      - o **EPA 10:** Maxxforce 11 and 13 engines | **2013:** N13 engines
    - + **NEW! Fuel Ignitor**
      - o **NEW! A26** GHG17 engines
    - + **NEW! Fuel Solenoid**
      - o **NEW! A26** GHG17 engines
    - + **NEW! Variable Geometry Turbocharger (VGT)**
      - o **NEW! A26** GHG17 engines
  - **Aftertreatment Fuel Enable Actuator Leak Test**
    - o **A26** Engines
  - **Aftertreatment Hydrocarbon Doser Leak Test**
    - o **A26** Engines
  - **Aftertreatment Hydrocarbon Dosing System Test**
    - o **A26** Engines
  - **Aftertreatment Reset**
    - o **EPA 07 and EPA 10 :** Maxxforce 11 and 13 engines
  - **Auxiliary Engine Speed Control (PTO) Parameters**
    - + **General** (AESC - Mode, AESC - Maximum Vehicle Speed, AESC - In Cab Mode Preset, AESC - In Cab Operator Interface, AESC - Ramp Rate, AESC - Maximum Engine Speed, AESC - Engine Speed Limit with VSS Fault, AESC - Vehicle Speed, AESC - Maximum Engine Load, AESC - Minimum Engine Speed, AESC - Maximum engine Load Time) | **Enable/Disable** (AESC - Remote Pedal Enable, AESC - Disable with Clutch, AESC - Disable with Brake, AESC - IDisable with APS, AESC - Disable ATC with Service Brake, AESC - Disable AESC with Parking Brake Released, AESC - Disable AESC with Driveline Status, AESC - Disable AESC with In-Cab Controls, AESC - Disable AESC with Vehicle Speed, AESC - SPDT Enable, AESC - Disable RP with Service Brake, AESC - Disable RP with Parking Brake Released, AESC - Disable RP with Driveline Status, AESC - Disable RP with In-Cab Controls, AESC - Disable RP with Vehicle Speed, AESC - Disable with Parking Brake), **Preset** (AESC - Preset Engine Speed 1 (Set), AESC - Preset Engine Speed 2 (Resume), AESC - Preset Engine Speed 3, AESC - Present Engine Speed 4, AESC - Preset Engine Speed 5, AESC - Preset Engine Speed 6, AESC - Engine Speed Throttle Down Ramp Rate, AESC - Bump Up / Down Step, Remote AESC - Preset Engine Speed Select), **Advanced Configuration** (AESC - Return to 0, Interrupt DPF Regeneration when AESC Activated, Load Threshold for Loaded AESC Applications, Force Fan on with AESC Active, Master Switch for Setting Source Addresses), **Configuration Parameters** (Remote Pedal Mode, AESC - Enable RP Overrides, AESC - Enable AESC Overrides, AESC - Speed Controlled to Engine Load, Auxiliary Engine Speed Control Switch Mode, Transfer Case Switch Signal Source, Vehicle Speed Signal Mode, Transfer Case Input Mode Select, Remote Accelerator Enable Switch, Disable CAP with AESC is Enabled, Cruise Control/AESC On/Off Switch Input Selection, Cruise Control Set/Coast Switch Input Selection, Cruise Control Resume/Accelerate Switch Input Selection, Remote Accelerator Switch Input Selection, Auxiliary Engine Shutdown Switch Input Selection, Remote AESC Programmed Speed Switch Input Selection, Remote AESC Variable Speed Switch Input Selection, Remote Accelerator Pedal Input Selection)
      - o **EPA 07** Maxxforce 7, DT, 9, 10, 11, and 13 Engines | **EPA 10** Maxxforce 7, 9, DT, 10, 11, 13, and 15 Engines | N9, N10, 2013 N13, 2015 N13, and A26 engines
      - o **NOTE:** Access to this can be removed. Contact Noregon support for more information.
  - **CDPF Reset**
    - o **EPA 10:** Maxxforce DT, 9, and 10 engines
  - **Cylinder Cut Out**
    - o **EPA 07:** Maxxforce 7, DT, 9, 10, 11, and 13 engines | **EPA 10:** Maxxforce 9, DT, 10, 11, and 13 engines | N9, N10, 2013 N13, 2015 N13, and A26 engines
  - **DEF Doser Pump Override Test**
    - o N9, N10, 2013 N13, and 2015 N13 engines
  - **DOC/DPF Replacement Reset**
    - o N9, N10, 2013 N13, and 2015 N13 engines | **A26** engines
  - **DPF Service Regen**
    - o **EPA 07:** Maxxforce 7, DT, 9, 10, 11, and 13 engines | **EPA 10:** Maxxforce 7, DT, 9, 10, 11, and 13 engines | N9, N10, 2013 N13, 2015 N13, and A26 engines
  - **Fuel Pressure Adaptation Reset**
    - o **EPA 07:** Maxxforce 7 engines | **EPA 13:** Maxxforce 7 engines

- **NEW! Forced Active Regen**
  - **NEW! A26** GHG17 engines
- **Idle Shutdown Time**
  - + *Idle Shutdown Timer Mode, Engine Idle Shutdown Time, Idle Shutdown Time – No parking Brake Set, Idle Shutdown Time with Park Brake*
    - **EPA 07:** Maxxforce 7, DT, 9, and 10 engines | **EPA 10:** Maxxforce DT, 9, 10, 11, 13, and 15 engines | **EPA 13:** Maxxforce 7, 9, DT, 10, 11, and 13 engines | N9, N10, N13, and A26 engines
- **KOEO Injector Test**
  - **EPA 07:** Maxxforce 7, DT, 9, and 10 engines | **EPA 10:** Maxxforce DT, 9, and 10 engines | N9 and N10 engines
- **KOEO Standard Test**
  - **EPA 07:** Maxxforce 7, DT, 9, and 10 engines | **EPA 10:** Maxxforce 7, DT, 9, and 10 engines | N9, N10, and 2015 N13 engines
- **KOER Air Management Test**
  - **EPA 07:** Maxxforce 7, DT, 9, and 10 engines | **EPA 10:** Maxxforce 7, DT, 9, 10, 11, and 13 engines | **EPA 13:** Maxxforce 7 engines | N9, N10, 2015 N13, and A26 engines
- **KOER Standard Test**
  - **EPA 07 to EPA 13:** Maxxforce 7, 9, and 10 engines | N9 and N10 engines
- **Road & Cruise Speed Limits**
  - + *Max Vehicle Speed, Cruise Control Mode, Cruise Control Vehicle Speed Low Limit, Cruise Control Vehicle Speed High Limit, Max Vehicle Speed with Road Speed Limiting On, Max Vehicle Speed with Cruise Control, Road Speed Limiting Vehicle Speed Limit, Road Speed Limiting Control Module*
    - **EPA 07:** Maxxforce 7, DT, 9, and 10 engines | **EPA 10:** Maxxforce DT, 9, 10, 11, 13, and 15 engines | **EPA 13:** Maxxforce 7, 9, DT, 10, 11, and 13 engines | N9, N10, N13, and A26 engines
    - **NOTE:** Access to this can be removed. Contact Noregon support for more information.
- **SCR Fault Reset**
  - N9, N10, 2013 N13, 2015 N13, and A26 engines
- **VSS Parameters**
  - + *Vehicle Speed Anti-Tampering Enabled, Tire Revs Per Mile, Rear Axle Ratio Low, Rear Axle Ratio High, Transmission Top Gear Ratio, Transmission Tailshaft Gear Teeth, Vehicle Speed Signal Mode, Vehicle Speed Source Selection When Split Shaft is Active*
    - **EPA 07:** Maxxforce 7, DT, 9, 10, and 13 engines | **EPA 10:** Maxxforce 7, 9, DT, 10, 11, 13, and 15 engines | N9, N10, 2013 N13, 2015 N13, and A26 engines
    - **NOTE:** The exact VSS Parameters available vary based on engine type.
    - **NOTE:** Access to this can be removed. Contact Noregon support for more information.

## Heavy-Duty Support for Mack & Volvo

- Supports all Mack, Volvo, and Prevost vehicles.
- Displays all standard and proprietary fault codes for all components.
- Ability to resolve partial Chassis ID to full VINs on Mack/Volvo vehicles.
- Improved powertrain fault readings on EPA 13 Mack/Volvo vehicles.
- Supports proprietary sensor data on all EPA 07 and newer Mack/Volvo engines.
- Supports reading proprietary NOx sensor data on all EPA 13 and newer Mack/Volvo engines.
- Mack and Volvo Specific Reports including: Trip Report and Life of Vehicle Report
  - **NOTE:** Reports are currently unavailable for connections using a Noregon DLA+ 3.0 family adapter.
  - **NOTE:** Reports only available on Mack EPA07 and newer vehicles with the DataMax parameter enabled.
  - **NOTE:** Reports only available on Volvo 2012 and newer with the DataMax parameter enabled.
- **Bi-Directional support for Mack & Volvo engines:**
  - **Aftertreatment Injector Activation for Flow Test**
    - **EPA 07** engines
  - **Cruise Max and Min Speeds**
    - + *Cruise Max Set Speed, Cruise Min Set Speed, Cruise Control Min Speed to Resume, Road Speed Limit for Cruise Control*
      - **EPA 07** engines to **GHG17** engines
      - **NOTE:** Access to this can be removed. Contact Noregon support for more information.
      - **NOTE:** This test is currently unavailable for connections using a Noregon DLA+ 3.0 family adapter.
  - **Cylinder Cut Out**
    - **EPA 07** engines to **GHG17** engines
  - **DEF Dosing Valve Test**
    - **EPA 10** engines to **GHG17** engines
  - **DEF Pressure System Test**
    - **EPA 10** engines to **GHG17** engines
  - **DPF Service Regen**
    - **EPA 07** engines to **GHG17** engines
  - **DPF System Reset**
    - **EPA 07** engines to **GHG17** engines
  - **EGR Function Test**
    - **EPA 07** engines to **GHG17** engines
  - **Enable or Disable Cruise Control**
    - **EPA 07** engines to **GHG17** engines
    - **NOTE:** This test is currently unavailable for connections using a Noregon DLA+ 3.0 family adapter.

- **Exit Inducement Test**
  - + EPA 10 for SPN 4094 and SPN 52466 | EPA 13 to GHG17 for P208E and P103B
  - EPA 10 engines to **GHG17** engines
  - **NOTE:** Contact Noregon support to help verify the Temporary Exit Inducement test for EPA 13 to GHG17 engines with P-codes P207F.
- **Fan Activation Test**
  - EPA 07 engines to EPA 10 engines
- **Fuel Shut-off Valve Test**
  - EPA 07 engines to EPA 10 engines
- **Hydrocarbon Dosing Control Valve Test**
  - EPA 10 engines
- **Idle Shutdown Time**
  - + Idle Shutdown Time
  - EPA 07 engines to **GHG17** engines
  - **NOTE:** This test is currently unavailable for connections using a Noregon DLA+ 3.0 family adapter.
- **Learned Data Reset**
  - EPA 07 engines to **GHG17** engines
- **NOx Conversion Monitor Test**
  - EPA 13 engines to **GHG17** engines
- **Purge Air Valve Test**
  - EPA 10 engines
- **Road Speed Limit**
  - + Customer Road Speed Limit, Road Speed Limit - Pedal Driving, Road Speed Limit Mandated by Law
  - EPA 07 engines to **GHG17** engines
  - **NOTE:** Access to this can be removed. Contact Noregon support for more information.
  - **NOTE:** This test is currently unavailable for connections using a Noregon DLA+ 3.0 family adapter.
- **SCR Regeneration**
  - EPA 13 engines to **GHG17** engines
- **Trip Reset**
  - **MACK EPA 07 and newer vehicles** with the DataMax parameter enabled | **VOLVO 2012 and newer vehicles** with the DataMax parameter enabled
  - **NOTE:** This test is currently unavailable for connections using a Noregon DLA+ 3.0 family adapter.
- **VGT Electronic Actuator Installation and Calibration**
  - EPA 13 engines to **GHG17** engines
- **VGT Function Test**
  - EPA 07 engines to **GHG17** engines
- **VGT Monitor Test**
  - EPA 13 engines to **GHG17** engines
- **Warm Hold Function Test**
  - EPA 07 engines to EPA 10 engines
  - **NOTE:** Mack and Volvo coverage requires Internet access at least once a month. Failure to provide Internet access will result in the application limiting use and eventually shutting off the features.

## Heavy-Duty Support for Mercedes-Benz

- Supports proprietary sensor data on MBE 900 and 4000 engines.
- **Bi-Directional support for Mercedes-Benz engines:**
  - **Cylinder Cut Out**
    - EPA 07 engines
  - **DPF Parked Regeneration**
    - EPA 07 engines

## Heavy-Duty Support for Paccar

- Supports 2016 Peterbilt and Kenworth trucks with or without the PACCAR Y-cable (PACCAR P/N: 42-02848) available from the PACCAR dealer network.
- Supports reading and clearing proprietary fault codes on all EPA 10 to GHG21 all MX engines.
- Supports reading proprietary data on all EPA 10 to GHG21 all MX engines.
- **Bi-Directional support for PACCAR engines:**
  - **Activate Air Shut Off Valve**
    - **GHG17** engines to **GHG21** all MX engines
  - **Activate Fuel Dosing Valve**
    - **GHG17** engines to **GHG21** all MX engines
  - **Automated Cylinder Performance Test**
    - EPA 10 engines to EPA 13 all MX engines
  - **Check Internal DEF Pump Module Heater**
    - EPA 13 all MX engines



- **NEW! Cylinder Compression Test**
  - **NEW! GHG17** engines to **GHG21** all MX engines
- **Cylinder Cut-Out**
  - **GHG17** engines to **GHG21** all MX engines
- **DEF Doser Pump Test**
  - **EPA 10** engines to **GHG17** all MX engines
- **DEF Heater Test**
  - + *DEF Inlet Pipe Heater, DEF Pipe Heater, DEF Pump Heater, DEF Return Pipe Heater, DEF Tank Heater Valve*
  - **EPA 10** engines to **GHG21** all MX engines
- **DPF Service Regen**
  - **EPA 10** engines to **GHG21** all MX engines
- **Enable Regeneration After Aftertreatment System Repair**
  - **EPA 10** engines to **EPA 13** all MX engines | *Contact Noregon Support to help verify this test on GHG17 MX engines.*
- **Evaluate NOx Sensors Test**
  - + *NOx sensor after catalyst, NOx sensor before catalyst*
  - **EPA 13** all MX engines
- **Install a New or Cleaned DPF**
  - **EPA 10** engines to **EPA 13** all MX engines | *Contact Noregon Support to help verify this test on GHG17 MX engines.*
- **Prime the System with the Pump for DEF**
  - **GHG17** all MX engines
- **Reset the Soot Level**
  - **EPA 10** engines to **EPA 13** all MX engines | *Contact Noregon Support to help verify this test on GHG17 MX engines.*
- **Turbo Actuator Effort Test**
  - **EPA 10** engines to **GHG21** all MX engines | *Contact Noregon Support to help verify this test on GHG17 MX engines.*

**NOTE:** For PX-6, PX-7, PX-8 or PX-9 engine bi-directional test support, please see the Cummins features.

## TRANSMISSION SUPPORT

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### Heavy-Duty Support for Allison

- Supports reading and clearing faults on: 1000/2000 Pre-4th Gen | WTEC II | WTEC III | 1000/2000 4th Gen | 3000/4000 4th Gen | 1000/2000 5th Gen | 3000/4000 5th Gen | TC10
- Supports reading and displaying the Check Transmission Lamp and Service Indicator Lamp on Allison 5th Gen transmissions
- **Bi-Directional support for Allison Transmissions:**
  - **Reset Fast Adaptive Shifts**
    - Supported on 1000/2000 Pre-4th Gen, 1000/2000 and 3000/4000 4th Gen, 1000/2000 and 3000/4000 5th Gen
  - **Reset Filter Life Monitor**
    - 1000/2000 and 3000/4000 4th Gen, 1000/2000 and 3000/4000 5th Gen
  - **Reset Oil Life Monitor**
    - 1000/2000 and 3000/4000 4th Gen, 1000/2000 and 3000/4000 5th Gen
  - **Service Indicator Lamp Test**
    - 1000/2000 and 3000/4000 4th Gen, 1000/2000 and 3000/4000 5th Gen
  - **Transmission Fault Lamp Test**
    - 1000/2000 and 3000/4000 4th Gen, 1000/2000 and 3000/4000 5th Gen

### Heavy-Duty Support for Detroit Deisel

- Supports reading SAE faults and proprietary sensor data for: DT12, **NEW!** TCM01T, **NEW!** TCM05T
- **Bi-directional support for Detroit Diesel transmissions:**
  - **Clutch Apply Leak Test**
    - **DT12 TCM01T** and **TCM05T** transmissions
  - **Tilt Sensor Calibration**
    - **DT12 TCM05T** transmissions
  - **Transmission Learn Procedure Test**
    - **DT12 TCM01T** and **TCM05T** transmissions

## Heavy-Duty Support for Eaton

- Supports reading SAE faults and data for: Gen I AutoSelect / AutoShift, Gen II AutoShift / UltraShift ASW / UltraShift DM, Lightning, Gen III Ultrashift PLUS, Advantage Series, Gen III AutoShift / UltraShift Hybrid Electric, Procision Series, Endurant Series, Gen III AutoShift / UltraShift / Ultrashift PLUS, VORAD 300, VORAD 400 FLR, Hybrid Drive System Controller

## Heavy-Duty Support for Mack and Volvo Transmissions

- Displays standard and proprietary fault codes for all Mack and Volvo Transmissions

## Heavy-Duty Support for ZF Meritor Transmissions

- Supports reading SAE faults and data for: SureShift, FreedomLine

# BRAKE MANUFACTURER SUPPORT

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## Heavy-Duty Support for Bendix

- Supports identification of all Bendix components.
- Includes ACom® Legacy to support older Bendix ECUs not currently supported by JPRO® Commercial Vehicle Diagnostics.
  - Ability to install and/or update ACom Legacy from within ACom PRO.
- Bi-Directional tests for TABS 6™ Single-Channel, TABS 6™ Multi-Channel, and TABS-8™ Trailer ECUs are only available through Bendix® ACom® Pro™ Diagnostics.
- Bendix DTC Report support for overall health report of all Bendix components.
- Clear Faults functionality supports clearing all faults, or only faults from a selected Bendix component.
  - **NOTE:** Access to this can be removed. Contact Noregon support for more information.

### Bendix Tractor Brakes

- Supports reading and clearing Bendix Proprietary Fault Codes on all EC-60 and EC-80 braking systems.
- Supports proprietary sensor data on all EC-60 and EC-80 braking system and ADB Wear Sensing, and ADB Continuous Wear Sensing ECUs.
- Path-Type codes replace Blink Codes in Look Codes for EC-80.
- Supports reading and clearing Bendix proprietary fault codes and data for Intellipark.
- Supports reading and clearing Event History records on all EC-60 and EC-80 braking systems.
- Event History supports reading:
  - Event Counters for EC-80 braking systems.
  - ESP Counters for EC-60 and EC-80 braking systems.
- Displays percentage of estimated brake wear life (pads plus rotor) remaining on the Trailer ADB Continuous Wear Sensing – Standalone key data points window.
- Displays reported pad wear life status on the ADB Wear Sensing key data points window.
- ABS Monitor provides an at-a-glance assessment of the braking system's health by monitoring related electrical and pneumatic components
- CPC Configuration Layout displays Central Pressure Controller diagram for the reported EC-80 CPC.
- **Bi-Directional support for Bendix Tractor brakes:**
  - **ABS Air Bag Pressure Test**
    - **EC-60** Advanced braking systems | **EC-80** ESP/ESP+ braking systems
  - **ABS Configuration**
    - + **ABS** (Configuration Additional Axle, Engine Retarder Control, Rail Mode) | **Tire Size** (Tire Size - RPM) | **ATC** (ATC Control, Traction Control Switch) | **ESP** (Yaw Control, RSP, Steering Angle Sensor Orientation, Lateral Acceleration Sensor Orientation, Yaw Rate Sensor Orientation, Trailer Modulator, Air Bag) | **Broadcast** (High Resolution Wheel Speed, Wheel Speed Information, Electronic Brake Controller, Cruise Control/Wheel Speed, Brake Message, J1939: High Resolution Wheel Speed, J1939: Wheel Speed Information, J1939: Electronic Brake Control, J1939: Cruise Control/Wheel Speed, J1587: PID 49 ABS Control Status, J1587: PID 84 Road Speed Information, J1587: PID 151 ATC Control Status, J1587: PID 168 Battery Potential (Voltage), J1587: PID 194 Diagnostics Data Requests (Faults), J1587: PID 209 ABS Control Status (Trailer), J2497: PID 49 ABS Control Status, J2497: PID 84 Road Speed Information, J2497: PID 151 ATC Control Status, J2497: PID 168 Battery Potential (Voltage), J2497: PID 194 Diagnostics Data Requests (Faults), J2497: PID 209 ABS Control Status (Trailer), J2497: PID 237 VIN (Trailer), J2497: PID 245 Odometer (Trailer))
      - **EC-60** braking systems | **EC-80** braking systems
  - **ABS Engine Limiting Test**
    - **EC-60** Premium or Advanced braking systems | **EC-80** ATC or ESP braking systems
  - **ABS Pressure Test**
    - **EC-60** Advanced braking systems | **EC-80** ESP/ESP+ braking systems

- **ABS Self-Config Test**
  - **EC-60** braking systems | **EC-80** ABS and ATC braking systems
- **ATC Configuration**
  - + **ATC Control, Traction Control Switch**
  - **EC-80** ESP and ATC braking systems
- **Battery Voltage Test**
  - **EC-60** braking systems | **EC-80** braking systems
- **Braking System Switches Test**
  - **EC-60** braking systems | **EC-80** braking systems
- **Dashboard Lamp Tests**
  - **EC-60** braking systems | **EC-80** braking systems
- **Drag Torque Test**
  - **EC-60** Premium or Advanced braking Systems | **EC-80** ATC or ESP braking systems
- **ECU Reset**
  - **EC-60** and **EC-80** braking systems
- **ESP Lamp Test**
  - **EC-80** ESP/ESP+ braking systems
- **Maintenance Mode**
  - Intellipark Systems
- **Modulator Valve (Chuff) Tests**
  - **EC-60** braking systems | **EC-80** braking systems
- **Steering Angle Test and Calibration**
  - **EC-60** Advanced braking systems | **EC-80** ESP/ESP+ braking systems or ATC+ with EV Support braking systems
- **Wheel Speed Chart Test**
  - All braking systems reporting wheel speed values
- **Wheel Speed Window Test**
  - All braking systems reporting wheel speed values
- **Wiggle Test/Performance Issue Monitoring**
  - **EC-60** braking systems | **EC-80** braking systems
- **Yaw Rate and Lateral Accel. Test and Calibration**
  - **EC-60** Advanced braking systems | **EC-80** ESP/ESP+ braking systems

## Bendix Trailer Brakes

- Supports reading and clearing proprietary fault codes and SAE sensor data for the following:
  - TABS-6™ Advanced Single-Channel (SC) Trailer ABS
  - TABS-6™ Multi-Channel (MC) Trailer ABS
  - TABS-8™ Trailer ABS
- Supports reading and clearing faults for Trailer ADB Continuous Wear Sensing – Standalone ECUs.
- **NEW!** Supports reading and clearing faults for iSense – Pro (ADB Continuous Pad Wear Sensing) ECUs.
- Displays percentage of estimated brake wear life (pads plus rotor) remaining on the Trailer ADB Continuous Wear Sensing – Standalone key data points window.
- Supports trailer diagnostics over CAN for trailer ABS modules using the Bendix 4-pin to 9-pin diagnostics extension cable for:
  - TABS-6™ Advanced Single-Channel Trailer ABS
  - **NEW!** TABS-6™ Advanced Multi-Channel Trailer ABS
  - TABS-8™ Trailer ABS
- **NEW!** The EOL (End of Line) Test provides a suite of tests used to validate if the trailer ABS and its sensors are installed and functioning properly, and are available for:
  - TABS-6™ Advanced Single-Channel Trailer ABS
  - TABS-6™ Multi-Channel (MC) Trailer ABS
  - TABS-8™ Trailer ABS
  - EOL Test report provides general ECU information, test results, and information gathered by individual tests.
  - Individual EOL tests are also available from the bi-directional test menu.
- **NEW!** ECU Configuration provides technicians the tools to set the configuration and parameters of TABS-6™ Multi-Channel (MC) Trailer ABS ECUs.
- **Bi-Directional support for Bendix Trailers:**
  - **NEW! ABS Indicator Lamp Test**
    - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
  - **NEW! Axle Load Test**
    - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
  - **NEW! Battery Voltage Test**
    - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
  - **NEW! Chuff Test**
    - **NEW!** TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
  - **NEW! Door Switch Status Test**
    - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS

- **NEW! ECU Configuration**
  - + ABS Configuration, Load and Sensor Configuration, TRSP, Auxiliary IO
  - **NEW!** TABS-6™ Multi-Channel (MC) Trailer ABS
- **NEW! ECU Information Test\***
  - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
- **NEW! General Output Functions Test**
  - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
  - **NOTE: Functions available vary based on brake ECU configuration.**
- **NEW! Installation Angle Test**
  - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
- **NEW! Installation Configuration Test**
  - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
- **NEW! Lift Axle Control Test**
  - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
  - **NOTE: Supports LAS1 and LAS2.**
- **NEW! Lift Lower Test**
  - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
- **NEW! Low Pressure Warning Emergency Test**
  - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
- **NEW! Low Pressure Warning Service Test**
  - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-8™ Trailer ABS
- **NEW! P-21 Delivery Test**
  - **NEW!** TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
- **NEW! P-21 Modulator Test**
  - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
- **NEW! P-22 Delivery Test**
  - **NEW!** TABS-6™ Multi-Channel (MC) Trailer ABS
- **NEW! P-22 Modulator Test**
  - **NEW!** TABS-6™ Multi-Channel (MC) Trailer ABS
- **NEW! Pad Wear Test**
  - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
- **NEW! Pressure Sensor Test**
  - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
- **NEW! S-C and S-D Sensor Tests**
  - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
- **NEW! S-E and S-F Sensor Tests**
  - **NEW!** TABS-6™ Multi-Channel (MC) Trailer ABS
  - **NOTE: Supports 4 sensor configuration only.**
- **NEW! Scratchpad Test\***
  - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
- **NEW! Tire Inflation System Test**
  - **NEW!** TABS-6™ Advanced Single-Channel Trailer ABS | TABS-6™ Multi-Channel (MC) Trailer ABS | TABS-8™ Trailer ABS
- **NEW! Wear Sensing Test**
  - **NEW!** TABS-6™ Multi-Channel (MC) Trailer ABS with minimum software version of TCWG.730.88
  - **NOTE: Requires QWS on SENS IN 1 and 2**
- **NEW! Wheel Speed Chart Test**
  - **NEW!** All braking systems reporting wheel speed values
- **NEW! Wheel Speed Window Test**
  - **NEW!** All braking systems reporting wheel speed values
  - **\*Test only displayed within the EOL Test dialog.**

## Bendix Driver Assistance Systems (DAS)

- Support reading and clearing Bendix Fault Codes and reading sensor data on: AutoVue® 3G LDW System, SafetyDirect® Web Portal Processor (3G and 5G), AutoVue® FLC20™ Camera, AutoVue® FLC25™ Camera, Wingman FLR20™/21™ Radar, Wingman FLR25™, Blindspotter® Radar, Vorad VS500 Radar, Driver Interface Unit (DIU), Steering Assist
- **NEW!** Updated support for AG12 software version for Steering Assist ECUs.
- Supports reading and clearing Event History records on all FLR21™ ECUs.
- **Bi-Directional support for Bendix Driver Assistance Systems:**
  - **AutoVue 3G Configuration**
    - + Enable Startup Chirps, Enable Radio Mute Discrete Output, Allow Driver Volume Control, LDW Warning Alert Type, LDW Minimum Operating Speed, TPMS Sampling Interval
    - AutoVue® 3G LDW System
  - **Blindspotter Configuration**
    - + Enable Auto Baud Rate, Set J1939 Baud Rate, Legacy Mode, Hazard Lamp Suppression, Fixed CCVS Acceptance Address, Sensor Location, Extra CAN Target Messages, FOV Speed Threshold, J1939 Base Source Address, Suppress Side Object Display BIST
    - Blindspotter® Radar
    - **(NOTE: only available if the Bendix OE Parameters license attribute is enabled).**

- **Camera Snapshot Test**
  - **AutoVue**® FLC20™ Camera
- **Clear Stored Events and Videos**
  - **AutoVue**® 3G LDW System | **SafetyDirect**® Web Portal Processor (3G and 5G)
- **DIU Configuration**
  - + *Minimum Volume Percentage, Minimum Volume Retained, Power-Up Tone, 2 Second Alert Tone, 1 Second Alert Tone, Headway Alerts when Breaking, Collision Alert when Braking, Wingman Advanced Alerts, Left Speaker Diagnostics, LDW Audio Support, Right Speaker Diagnostics, Blackout Mode*
    - Driver Interface Unit
- **Indicator Component Tests**
  - **AutoVue**® 3G LDW System | **SafetyDirect**® Web Portal Processor (5G)
- **Lamp Component Test**
  - **AutoVue**® 3G LDW System | **SafetyDirect**® Web Portal Processor (5G)
- **LDW Configuration**
  - + *LDW, LDW Minimum Operating Speed, LDW Sensitivity (Left Side), LDW Sensitivity (Right Side), LDW + Blindspotter 2 Integration*
    - **AutoVue**® FLC20™ Camera
- **Output Component Tests**
  - **AutoVue**® 3G LDW System | **SafetyDirect**® Web Portal Processor (3G and 5G)
- **Pressure Trimming & Coil Polarity Test**
  - **NEW!** Now supports Steering Assist AG12 software
- **Radar Service Alignment**
  - **Wingman**® FLR25™ Radar
- **Safety Direct Event Configuration**
  - + *SD Event Collection (Safety Direct Event Reporting, Record Time Before Event Trigger, Record Time After Event Trigger, SD Manual Event Video Length, SD Overspeed Grace Threshold, SD Overspeed Video Snapshots OTA) | SD Event Triggers (Hard Braking Force, Severe Hard Braking Force, Excessive Turning Force, Severe Excessive Turning Force, Following Distance Time, Following Distance Duration, Severe Following Distance Duration, SD Severe Lane Mark No. Track Time, Vehicle Overspeed Limit Threshold, Vehicle Speeding Limit, Severe Vehicle Overspeed Limit Threshold, Speeding Trigger, Severe Speeding Trigger) | SD Min Speeds (Braking Trigger Minimum Speed, Excessive Turning Trigger Minimum Speed, Following Distance Minimum Speed)*
    - **AutoVue**® 3G LDW System | **SafetyDirect**® Web Portal Processor (3G and 5G)
- **Safety Direct Event Selection Configuration**
  - + *Notification Beep (Excessive Curve Speed, Excessive Braking, Distance Alert, Forward Collision Warning, Collision Mitigation Braking, ESC, RSC, Over Speed Limit, Vehicle Speeding) | Video Recording (Excessive Curve Speed, Excessive Braking, Distance Alert, Forward Collision Warning, Collision Mitigation Braking, ESC, RSC, Over Speed Limit, Vehicle Speeding)*
    - **AutoVue**® 3G LDW System | **SafetyDirect**® Web Portal Processor (3G and 5G)
- **SDP3/SDP5 Configuration**
  - + *Enable Startup Chirps, Enable Radio Mute Discrete Output, LDW Driver Disable Switch Type, Alert Type, Audio Sound Type, TPMS Sample Interval, SD Cellular Enable, DVR Options, Video Input Camera Type, Cellular Enable, FLC Camera, DFC Camera, MPC2 Camera, CTP OBC, Private CAN, Backup Battery, Use Only CTP for Data Offloading, TPMS Sampling Interval)*
    - **SafetyDirect**® Web Portal Processor (3G and 5G)
- **Speaker Volume Configuration**
  - **AutoVue**® 3G LDW System | **SafetyDirect**® Web Portal Processor (3G and 5G)
- **SPTAC Calibration**
  - **AutoVue**® FLC20™ Camera
- **Startup Chirp Volume Setting**
  - **SafetyDirect**® Web Portal Processor (3G and 5G)
- **TSR Configuration**
  - + *Traffic Sign Recognition, TSR OverSpeed Alert, TSR OverSpeed Alert and Action, Source Address for the Country Select Message*
    - **AutoVue**® FLC20™ Camera
- **Wingman FLR Configuration**
  - + *General Settings (ACC Lateral Mounting Offset, Stationary Object Warning, Direct TSC1 Control, Highway Departure Braking, ACC Type, Multi-Lane AEB, ACC Type Engine Mismatch) | DFA Alerts/Following Distance Settings (Following Distance Alert Table, Momentary FDA)*
    - **Wingman**® FLR20™ /21™ Radar | **Wingman**® FLR25™ Radar | **Vorad** VS500 Radar
- **Wingman Fusion Blindness Adjustment**
  - **Wingman**® FLR21™ Radar

## Bendix Tire Pressure Monitoring System (TPMS)

- Support reading and clearing Bendix proprietary fault codes on all SmarTire™ TPMS solutions.
- Supports proprietary sensor data on all SmarTire™ TPMS solutions.
- Supports reading and clearing mileage accumulation statistics and sensor fault occurrences on all SmarTire™ NextGen TPMS solutions.
- TPMS Diagnostics provides an at-a-glance assessment of the Bendix TPMS system's health by monitoring related data.
- TPMS key data points screen displays tire pressure and temperature data for configured sensor IDs, and ECU selection for multiple TPMS ECUs on the same connection.
- Supports reading Event History information and saving to a local file.
- **Bi-Directional support for Bendix TPMS:**
  - **TPMS Ambient Sensor Configuration**
    - + *Global Settings (Altitude Compensation) | Ambient Application Configuration (Ambient Sensor ID Code, Ambient Condition Enable, Ambient Pressure From Sensor, Ambient Pressure Enable, Ambient Pressure Source, Ambient Sensor Fault Enable)*
      - All **SmarTire**™ TPMS solutions

- **TPMS Backup and Restore**
  - All **SmarTire™** TPMS solutions
  - **For compatibility rules see TPMS Backup and Restore Compatibility.**
- **TPMS Configuration**
  - All **SmarTire™** TPMS solutions
- **TPMS Lamp Display Configuration**
  - **SmarTire™** Standard and NextGen TPMS solutions
- **TPMS Parameters**
  - + **Global Settings** (First Alert Level, Temperature Compensate FAL, Second Alert Level, Temperature Compensate SAL, High Temperature, Auto Learn Setting, Tire Condition Pressure Mode) | **Sensor Fault Time Programming** (Sensor Fault Time Rolling Mode, Custom Stationary Sensor Fault Time, Sensor Fault time Stationary Mode, Custom Ambient Sensor Fault Time, Sensor Fault Time for Ambient Sensor) | **Programming Restrictions** (Gauge Units Menu, Gauge Parameters Menu, Gauge Axle Menu, Gauge Altitude Menu, Gauge Learn Menu, Gauge Profile Menu, Gauge Password Menu, PIN Code to Unlock Display) | **Dual Tire Imbalance** (Dual Tire Imbalance Enable, Dual Tire Imbalance Pressure Limit) | **Low Power Mode** (Vehicle Battery Check Interval, Minimum Vehicle Battery, Maximum Sensor Data Age) | **Low Power Mode Stage 1** (Stage One Sleep Time, Stage One Repetitions) | **Low Power Mode Stage 2** (Stage Two Sleep Time, Stage Two Repetitions) | **Low Power Mode Stage 3** (Stage Three Sleep Time) | **Vehicle and Trailer Settings** (Vehicle Type, Vehicle ID, Trailer Learn, Exclusive Trailer, Exclusive Trailer ID) | **Antenna Configuration** (Internal Antenna)
  - All **SmarTire™** TPMS solutions
- **TPMS Scratchpad**
  - **SmarTire™** NextGen TPMS solutions
- **TPMS Signal Strength Test**
  - All **SmarTire™** TPMS solutions (except for Standard TPMS models 200.0213, 200.0216, and 200.0219)
- **TPMS Statistics**
  - **SmarTire™** NextGen TPMS solutions

## TPMS Backup and Restore Compatibility

- The TPMS Backup and Restore allows configuration settings to be saved to and loaded from a local file. The following shows compatibility rules for transferring data between different TPMS controllers.
  - **SmarTire™ Standard TPMS solutions:**
    - May update Standard and NextGen controllers.
  - **SmarTire™ iTPMS solutions:**
    - May update Standard and NextGen controllers.
  - **SmarTire™ NextGen TPMS solutions:**
    - May update Standard and NextGen controllers.

## Bendix Air Treatment Systems

- Supports reading proprietary faults and data, and clearing faults for the following air treatment system components: EAC (EC-80 Integrated) and EAC (Standalone).
- Supports reading and clearing proprietary fault codes for the following air treatment system components: eAPU2, iAPU, ESM2, EVM1, and eIAG.
- **Bi-Directional support for Bendix Air Treatment Systems:**
  - **Cartridge Lifetime Prediction Reset Test**
    - EAC (EC-80 Integrated) | EAC (Standalone)
  - **Cartridge Reset Test**
    - iAPU
  - **Oil Change Reset Test**
    - iAPU

## BENDIX AUXILIARY COMPONENTS

- Supports reading Bendix Proprietary Fault Codes and data for the PLC Relay.

## Heavy-Duty Support for Haldex

- Support proprietary identification for Haldex Trailer Braking systems.
- Supports reading proprietary faults for all Haldex Trailer Braking systems.
- Reads and displays trailer odometer and trip distance for all Haldex Trailer Braking systems.

## Heavy-Duty Support for Wabco

### Wabco Brakes

- Supports proprietary identification for HABS ABS, HPB (Hydraulic Power Brake) System, C Series ABS, D Series ABS, TCS II trailer braking system, E Series ABS including the E8, mBSP - Modular Braking System Platform
- Supports reading and clearing SAE J1587 and J1939 faults for all Wabco tractor and trailer braking systems.

- Supports reading all SAE data for all Wabco tractor and trailer braking systems.
- Supports reading proprietary wheel speed data where J1587 communications are available.
- **Bi-Directional support for Wabco brakes:**
  - **Dashboard Lamp Tests**
    - All Wabco braking systems except the mBSP
  - **Enable/Disable ATC (Automatic Traction Control)**
    - Wabco HPB brakes and all Wabco pneumatic braking systems
  - **Memorized Components Reset**
    - All pneumatic and hydraulic braking systems where J1587 communications are available
  - **Modulator Valve (Chuff) Test**
    - All Wabco pneumatic braking systems
  - **Wheel Speed Chart Test**
    - All braking systems reporting wheel speed values
  - **Wheel Speed Window Test**
    - All braking systems reporting wheel speed values

### Wabco Advanced Driver Assistance Systems (ADAS)

- Supports SAE faults and proprietary sensor data for OnGuard™ Forward Looking Radar.

## Heavy-Duty Support for Wabash

- Supports reading SAE faults and data for Wabash trailer brakes.

# AUXILIARY COMPONENT SUPPORT

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## Heavy-Duty Support for Agility

- Supports reading proprietary faults and data for Agility Blue iQ® Fuel System Control Module.
- **Bi-Directional support for Agility Blue IQ® Fuel System Control Module:**
  - **Wiggle Test/Performance Issue Monitoring**
    - Agility Blue iQ® Fuel System Control Module

## Heavy-Duty Support for Alexander Dennis

- Supports reading SAE faults and data for Alexander Dennis auxiliary components.

## Heavy-Duty Support for Bluebird

- Supports reading SAE faults and data for Bluebird auxiliary components.

## Heavy-Duty Support for Dana

- Support reading and clearing proprietary fault and data on Dana CTIS (Central Tire Inflation System) where J1939 communications are available.
- **Bi-Directional support for Dana CTIS systems:**
  - **CTIS Pressure Tests**
    - **Dana CTIS** where J1939 communications are available
  - **CTIS Supply Tank Pressure Test**
    - **Dana CTIS** where J1939 communications are available

## Heavy-Duty Support for Detroit Assurance

- Supports proprietary sensor data for the Radar Frontend 2.
- **Bi-Directional support for Detroit Assurance:**
  - **Radar Alignment**
    - Radar Frontend 2
  - **Radar Parameters**
    - + **Radar Height**
      - Radar Frontend 2

## Heavy-Duty Support for Freightliner

- Support reading and clearing faults from all Freightliner auxiliary components.

## Heavy-Duty Support for Fuso

- Support for Fuso FE Gas Series trucks (Models FEC7TS, FEC7TW, FEC9TS and FECZTS) through a heavy duty 9 pin connection:
  - **Read and clear faults from all vehicle components.**
    - **NOTE:** Access to this can be removed. Contact Noregon support for more information.
  - **Alerts for out-of-date software for the PSI engine and Fuso SSAM, ABS and ICUC components.**

## Heavy-Duty Support for International

- Supports reading SAE faults and data for International auxiliary components.

## Heavy-Duty Support for Paccar Body Controllers

- Supports the following Paccar Body Controllers including clearing faults: CECU3, CECU3 500, VECU
  - **NOTE:** Paccar Body Controller faults are only supported on 2007 and newer Kenworth and Peterbilt trucks.
  - **NOTE:** PACCAR Body Controller faults on the KWP2000 protocol can only be read when using the Noregon DLA+ 3.0, DLA+ 3.0 Wireless, DLA+ 2.0, DLA+ 2.0 Wireless, DLA+, or DLA+ Wireless adapter. If using the Noregon DLA+ or DLA+ Wireless adapter, please ensure the label on the back of the adapter indicates it is 'Rev P Compatible'.

## Heavy-Duty Support for Prevost

- Supports reading and clearing faults from all Prevost auxiliary components.

## Heavy-Duty Support for Sterling

- Supports reading SAE faults and data for Sterling auxiliary components.

## Heavy-Duty Support for Thomas Built

- Supports reading SAE faults and data for Thomas Built auxiliary components

## Heavy-Duty Support for Mack and Volvo Auxiliary Components

- Displays all standard and proprietary fault codes for all Mack and Volvo components.

## Heavy-Duty Support for Van Hool

- Supports reading SAE faults and data for Van Hool auxiliary components.

## Heavy-Duty Support for Western Star

- Supports reading SAE faults and data for Western Star auxiliary components.

## MEDIUM-DUTY FEATURES

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- Medium Duty supports reading emissions faults and data from all standard US OBD vehicles since 2007.
- Supports the medium-duty ISO 15765, ISO 14229, J1850, GMLAN (CAN-based) and KWP2000 (CAN-based) messages.
- Enhanced connection support with greater diagnostic capabilities for newer Medium-Duty vehicles outside of the supported year range.
- Supports continuous refresh of selected data in the Data Monitor window.
- View Emissions on-board test results in the Emissions Test Results window.
- Aftertreatment Diagnostics displays data from aftertreatment related components, including Soot Level, and EGR data for rapid troubleshooting of the aftertreatment system.



- Ability to view the following subsystems with related data:
  - + DEF Tank and Pump
  - + DPF and DOC
  - + Engine, EGR, and Turbocharger
  - + SCR
- Search the Data tab to quickly identify parameters of interest.
- Aftertreatment Diagnostics supports the following Medium-Duty manufacturers:
  - + Ford
  - + GM
  - + Hino
  - + Isuzu
- **Noregon DLA+ family adapters are required to connect to the Ford, GM, Hino, Isuzu or Sprinter Medium Duty vehicles. For detailed information on how to connect, see the User's guide titled "Connecting to the Data Bus on Medium Duty Vehicles".**

## Medium-Duty Support for Ford

- Supports the following Ford Models:
  - **F-series: 2004 - 2021 | F-650 & F-750: 2004 - 2021 | Econoline E-Series: 2004 - 2021 | Ford Motorhome/Incomplete Chassis (F-59/F-53): 2015 - 2021 | Transit Connect: 2004 - 2018 | Transit Vehicles: 2004 - 2021**
- Supports the medium duty ISO 15765 and ISO 14229 messages.
- Gives users the ability to read and clear faults, read freeze frames, read sensor data, and display emission test results.
  - **NOTE:** Access to clear faults can be removed. Contact Noregon support for more information.
- **Bi-Directional Support for Ford Engines:**
  - **DPF Regeneration**
    - **2008 to 2021** 6.4L diesel engines | **2011 to 2022** 6.7L diesel engines | **2015 to 2019** 3.2L diesel engines
  - **KAM (Keep Alive Memory) Reset**
    - all supported engines
  - **KOEO Injector Buzz Test**
    - all supported engines
  - **KOEO On Demand Self-Test**
    - all supported engines
  - **KOER On Demand Self-Test**
    - all supported engines
  - **KOER Glow Plug Monitor Self-Test**
    - all supported diesel engines
  - **KOER Switch Test**
    - **2004 - 2021** all supported diesel engines
  - **Misfire Monitor Test**
    - **2008 - 2021** all supported gasoline engines
  - **Misfire Profile Correction Learn Test**
    - 6.8L V-10 Gasoline Engines
  - **Power Balance Test**
    - **2008 to 2010** 6.4L diesel engines | **2011 to 2022** 6.7L diesel engines | 6.8L V-10 Gasoline Engines
  - **Relative Compression Test**
    - **2008 - 2022** all supported engines (except for 2009 6.4L Diesel)
  - **Set EGR Position**
    - **2011 to 2021** 6.7L diesel engines
  - **Set EGR Throttle**
    - **2011 to 2021** 6.7L diesel engines
  - **Transmission Adaptive Learn Tests**
    - + Clear Transmission Adaptive Tables, Stop Using Transmission Adaptive Tables, Halt Transmission Adaptive Learning, Resume Transmission Adaptive Learning
    - **2018 to 2021** Ford Motorhome/Incomplete Chassis (F-59) with: **6.8L** gasoline engines, **6.8L CNG** engines, **7.3L** gasoline engines
- **Bi-Directional Support for Ford 2004-2021 Transmissions:**
  - **KOEO On Demand Self-Test**
  - **KOER On Demand Self-Test**
- **Bi-Directional Support for Ford 2004-2021 Brakes:**
  - **G-Sensor Calibration Test**
  - **On Demand Self-Test**
  - **Sensor Initialization**

- **Bi-Directional Support for Ford Auxiliary Components:**

- **On Demand Self-Test**

- + 4x4 Control Module (4x4m)
- + Accessory Protocol Interface Module (APIM)
- + Audio Control Module (ACM)
- + (Audio) Digital Signal Processing Module (DSP)
- + Body Control Module (BodyCM)
- + Circuit Deactivation Ignition Module (CDIM)
- + Cruise-Control Module (C-CM)
- + DC to DC Converter Control Module (DCDC)
- + Digital Audio Control Module (DACMC)
- + Driver Front Seat Module (DSM)
- + Driver/Dual Climate-Control Seat Module (DCSM)
- + Drivers Door Module (DDM)
- + Front Control/Display Interface Module (FCDIM)
- + Front Controls Interface Module (FCIM)
- + Front Display Interface Module (FDIM)
- + Generic Electronic Module (GEM)
- + Global Positioning System Module (GPSM)
- + Headlamp Control Module (HCM)
- + Heads Up Display (HUD)
- + Heated Steering Wheel Module (HSWM)
- + Heating Ventilation Air Conditioning (HVAC)
- + Image Processing Module A (IPMA)
- + Image Processing Module B (IPMB)
- + Information Center Module (ICM)
- + Instrument Cluster (IC or IPC)
- + Interior Lighting Control Module (ILCM)
- + Occupant Classification System Module (OCS)
- + Parking Aid Module (PAM)
- + Passenger Front Door Module (PDM)
- + Power Running Board (PRB)
- + Power Steering Control Module (PSCM)
- + Rear Seat Entertainment Module (RETM)
- + Reductant Control Module (DCU)
- + Restraint Control Module (RCM)
- + Running Board Control Module (RBM)
- + Satellite Digital Audio Receiver System (SDARS)
- + Seat Control Module E (SCME)
- + Side Obstacle Detection Control Module – Left (SODL)
- + Side Obstacle Detection Control Module – Right (SODR)
- + Smart Junction Box (SJB)
- + Steering Angle Sensor Module (SASM)
- + Steering Column Control Module (SCCM)
- + Trailer Brake Control Module (TBC)
- + Trailer Module (TRM)
- + Transfer Case Control Module (TCCM)
- + Vehicle Security Module (VSM)

- **Wiper Control Test**

- Generic Electronic Module (GEM) | Smart Junction Box (SJB)

- **Wiper Washer Rear Test**

- Generic Electronic Module (GEM) | Smart Junction Box (SJB)

## Medium-Duty Support for GM

- Supports the following vehicles:

- **2002-2022:** GMC and Chevy Full Sized Trucks 1500, 2500 and 3500 | **2002-2022:** GMC Express and Chevy Savana | **2002-2010** GM Medium Duty | **2014-2022** GMC Canyon and Chevy Colorado | Freightliner trucks with GM 6.0L (L96) engines.

- **NOTE:** Only the powertrain components are supported on 2014 and newer GM Vehicles

- **NEW!** Supports GM 6.6L (L8T) engines on:

- **2020-2021:** GMC and Chevy Full Sized Trucks 1500, 2500 and 3500 | **2021-2023:** GMC Express and Chevy Savana | **2021-2024:** Chevy Low Cab Forward 3500, 4500, 5500, 6500 | **2022-2024:** Chevy Silverado HD and GMC Sierra HD | **2020-2024:** Freightliner MT45 trucks

- Supports the medium duty J1850 VPW and GMLAN messages

- Gives users the ability to read and clear faults, read freeze frames, read sensor data and display emission test results

- **NOTE:** Access to clear faults can be removed. Contact Noregon support for more information.

- **Bi-Directional Support for GM Engines:**

- **A/C Relay**

- **2010 to 2021** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engine | **2010 to 2021** GMC Express and Chevy Savana 6.0L Gas engines | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine

- **CMP Actuator Solenoid**

- **2010 to 2021** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engine | **2010 to 2021** GMC Express and Chevy Savana 6.0L Gas engines | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine

- **Crankshaft Position Variation Learn**

- **2010 to 2021** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engine | **2010 to 2021** GMC Express and Chevy Savana 6.0L Gas engines | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine

- **Cylinder Cut Out**

- **2010 to 2022** all diesel and gasoline engines (except GM vehicles with CAT engines) | **NEW! 2021 – 2023** GMC Express and Chevy Savana with 6.6L Gas engine | **NEW! 2021 – 2024** Chevy Low Cab Forward 3500, 4500, 5500, 6500 with 6.6L Gas engine | **NEW! 2022 – 2024** Chevy Silverado HD and GMC Sierra HD | **NEW! 2020 – 2024** Freightliner MT45 trucks with 6.6L Gas engine

- **DPF Catalyst Reset**

- **2010 to 2022** vehicles with a Duramax 6.6L diesel engine | **2016** GMC Canyon and Chevy Colorado with 2.8L Diesel engine | **2017 to 2022** GMC Savana or Canyon and Chevy Express or Colorado with a 2.8L Diesel engine

- **DPF Pressure Sensor Reset**

- **2010 to 2022** vehicles with a Duramax 6.6L diesel engine | **2016** GMC Canyon and Chevy Colorado with 2.8L Diesel engine | **2017 to 2022** GMC Savana or Canyon and Chevy Express or Colorado with a 2.8L Diesel engine

- **DPF Service Regen**

- **2010 to 2022** vehicles with a Duramax 6.6L diesel engine | **2016** GMC Canyon and Chevy Colorado with 2.8L Diesel engine | **2017 to 2022** GMC Savana or Canyon and Chevy Express or Colorado with a 2.8L Diesel engine

- **Engine Controls Ignition Relay**

- **2010 to 2021** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engines | **2010 to 2017** GMC Express and Chevy Savana with 6.0L Gas engine | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine | **NEW! 2020 – 2021** GMC and Chevy Full Sized Trucks 1500, 2500 and 3500 with 6.6L Gas engine | **NEW! 2021 – 2023** GMC Express and Chevy Savana with 6.6L Gas engine | **NEW! 2021 – 2024** Chevy Low Cab Forward 3500, 4500, 5500, 6500 with 6.6L Gas engine | **NEW! 2022 – 2024** Chevy Silverado HD and GMC Sierra HD | **NEW! 2020 – 2024** Freightliner MT45 trucks with 6.6L Gas engine

- **Engine Speed Control**

- **2010 to 2021** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engines | **2010 to 2017** GMC Express and Chevy Savana with 6.0L Gas engine | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine

- **EVAP Purge/Seal Solenoid**

- **2010 to 2021** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engines | **2010 to 2017** GMC Express and Chevy Savana with 6.0L Gas engine | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine

- **EVAP Purge Solenoid**

- **2010 to 2021** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engines | **2010 to 2017** GMC Express and Chevy Savana with 6.0L Gas engine | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine

- **EVAP Vent Solenoid**
  - **2010 to 2021** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engines | **2010 to 2017** GMC Express and Chevy Savana with 6.0L Gas engine | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **Fuel Closed Loop Status**
  - **2010 to 2021** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engines | **2010 to 2017** GMC Express and Chevy Savana with 6.0L Gas engine | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **Fuel Injector Balance**
  - **2010 to 2021** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engines | **2010 to 2017** GMC Express and Chevy Savana with 6.0L Gas engine | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **Fuel Pump Relay**
  - **2010 to 2021** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engines | **2010 to 2017** GMC Express and Chevy Savana with 6.0L Gas engine | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **Fuel Trim Enable**
  - **2010 to 2021** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engines | **2010 to 2017** GMC Express and Chevy Savana with 6.0L Gas engine | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **Fuel Trim Reset**
  - **2010 to 2021** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engines | **2010 to 2017** GMC Express and Chevy Savana with 6.0L Gas engine | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **Gen L-Terminal**
  - **2010 to 2021** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engines | **2010 to 2017** GMC Express and Chevy Savana with 6.0L Gas engine | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **HO2S Bank 1 Sensor 1 Heater**
  - **2010 to 2018** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engine | **2010 to 2017** GMC Express and Chevy Savana 6.0L Gas engines | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **HO2S Bank 1 Sensor 2 Heater**
  - **2010 to 2018** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engine | **2010 to 2017** GMC Express and Chevy Savana 6.0L Gas engines | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **HO2S Bank 2 Sensor 1 Heater**
  - **2010 to 2018** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engine | **2010 to 2017** GMC Express and Chevy Savana 6.0L Gas engines | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **HO2S Bank 2 Sensor 2 Heater**
  - **2010 to 2018** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engine | **2010 to 2017** GMC Express and Chevy Savana 6.0L Gas engines | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **HO2S Heater Learn**
  - **2010 to 2018** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engine | **2010 to 2017** GMC Express and Chevy Savana 6.0L Gas engines | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **Idle Spark**
  - **2010 to 2018** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engine | **2010 to 2017** GMC Express and Chevy Savana 6.0L Gas engines | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **Misfire Graphic**
  - **2010 to 2018** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engine | **2010 to 2017** GMC Express and Chevy Savana 6.0L Gas engines | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine | **NEW! 2020 – 2021** GMC and Chevy Full Sized Trucks 1500, 2500 and 3500 with 6.6L Gas engine | **NEW! 2021 – 2023** GMC Express and Chevy Savana with 6.6L Gas engine | **NEW! 2021 – 2024** Chevy Low Cab Forward 3500, 4500, 5500, 6500 with 6.6L Gas engine | **NEW! 2022 – 2024** Chevy Silverado HD and GMC Sierra HD | **NEW! 2020 – 2024** Freightliner MT45 trucks with 6.6L Gas engine
- **NOx Sensor 1 & NOx Sensor 2 Reset**
  - **2010 to 2018** vehicles with a Duramax 6.6L Diesel engine | **2016** GMC Canyon and Chevy Colorado with 2.8L Diesel engine | **2017 and 2018** GMC Savana or Canyon and Chevy Express or Colorado with a 2.8L Diesel engine
- **Reductant Heater 1, 2, and 3 Tests**
  - **2010 to 2018** vehicles with a Duramax 6.6L Diesel engine | **2016** GMC Canyon and Chevy Colorado with 2.8L Diesel engine | **2017 and 2018** GMC Savana or Canyon and Chevy Express or Colorado with a 2.8L Diesel engine
- **Reductant System Leak Test**
  - **2010 to 2018** vehicles with a Duramax 6.6L Diesel engine | **2016** GMC Canyon and Chevy Colorado with 2.8L Diesel engine | **2017 and 2018** GMC Savana or Canyon and Chevy Express or Colorado with a 2.8L Diesel engine
- **Reductant Tank Reset**
  - **2010 to 2018** vehicles with a Duramax 6.6L Diesel engine | **2016** GMC Canyon and Chevy Colorado with 2.8L Diesel engine | **2017 and 2018** GMC Savana or Canyon and Chevy Express or Colorado with a 2.8L Diesel engine
- **Reset Oil Life**
  - **2010 to 2018** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engine | **2010 to 2017** GMC Express and Chevy Savana 6.0L Gas engine | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine | **NEW! 2020 – 2021** GMC and Chevy Full Sized Trucks 1500, 2500 and 3500 with 6.6L Gas engine | **NEW! 2021 – 2023** GMC Express and Chevy Savana with 6.6L Gas engine | **NEW! 2021 – 2024** Chevy Low Cab Forward 3500, 4500, 5500, 6500 with 6.6L Gas engine | **NEW! 2022 – 2024** Chevy Silverado HD and GMC Sierra HD | **NEW! 2020 – 2024** Freightliner MT45 trucks with 6.6L Gas engine
- **Reset RVS Disable History**
  - **2010 to 2018** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engine | **2010 to 2017** GMC Express and Chevy Savana 6.0L Gas engine | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **Spark Retard**
  - **2010 to 2018** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engine | **2010 to 2017** GMC Express and Chevy Savana 6.0L Gas engine | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **Starter Relay**
  - **2010 to 2018** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engine | **2010 to 2017** GMC Express and Chevy Savana 6.0L Gas engine | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **Throttle Position**
  - **2010 to 2018** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engine | **2010 to 2017** GMC Express and Chevy Savana 6.0L Gas engine | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **Throttle Position Sweep**
  - **2010 to 2018** GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engine | **2010 to 2017** GMC Express and Chevy Savana 6.0L Gas engine | **2011** GMC Canyon and Chevy Colorado with 6.0L Gas engine
- **Bi-Directional Support for GM Transmissions:**
  - **High Side Driver 1**
    - **Transmissions in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines

- **Line PC Solenoid**
  - **Transmissions in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
- **PC Solenoid 2**
  - **Transmissions in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
- **PC Solenoid 3**
  - **Transmissions in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
- **PC Solenoid 4**
  - **Transmissions in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
- **PC Solenoid 5**
  - **Transmissions in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
- **Reset Transmissions Adapts**
  - **Transmissions in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
- **Reset Transmission Oil Life**
  - **Transmissions in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
- **Shift Transmission**
  - **Transmissions in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
- **TCC Control Solenoid**
  - **Transmissions in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
- **Bi-Directional Support for GM Brake Control Module**
  - **ABS Motor**
    - **Brakes in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **Automated Brake Bleed**
    - **Brakes in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **LF Inlet Valve Solenoid**
    - **Brakes in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **LF Outlet Valve Solenoid**
    - **Brakes in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **Rear Inlet Valve Solenoid**
    - **Brakes in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **Rear Outlet Valve Solenoid**
    - **Brakes in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **RF Inlet Valve Solenoid**
    - **Brakes in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **RF Outlet Valve Solenoid**
    - **Brakes in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
- **Bi-Directional Support for GM Body Controllers:**
  - **Accy/RAP Relay**
    - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **Backup Lamps**
    - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **Courtesy Lamp**
    - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **DRL**
    - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **Fog Lamps**
    - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **High Beams**
    - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **Horn**
    - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **Incandescent Dimming**
    - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **LED Dimming**
    - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **LF Turn Signal**
    - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **LR Turn Signal**
    - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **Low Beams**
    - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **Parking Lamps**
    - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **RF Turn Signal**
    - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **RR Turn Signal**
    - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **Run/Crank Relay**
    - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
  - **Shift Lock Solenoid**
    - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines

- **Wiper High Speed Relay**
  - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
- **Wiper Relay**
  - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines
- **Wiper Washer Motor**
  - **Body Controllers in a 2010 to 2012** GMC Express and Chevy Savana 6.0L Gas engines

## Medium-Duty Support for Hino

- Supports reading faults and data from the engine in 2011 to 2019 Hino vehicles.
- Hino support gives users the ability to read and clear faults, read sensor data, and display emission test results.
  - **NOTE:** Access to clear faults can be removed. Contact Noregon support for more information.
- **Bi-Directional Support for Hino engines:**
  - **Cruise Speed Customization**
    - + **Max Cruise Set Speed**
      - All engines in Hino **2011-2019** vehicles
  - **Cylinder Cut Out**
    - All engines in Hino **2011-2019** vehicles
  - **DPF Manual Service Regen**
    - All engines in Hino **2011-2019** vehicles
  - **DPF Soot Load Customization**
    - All engines in Hino **2011-2019** vehicles
  - **Idle Shutdown Customization**
    - + **Idle Shutdown Setting Time**
      - All engines in Hino **2011-2019** vehicles
  - **SCR Related Memory Reset**
    - All engines in Hino **2011-2019** vehicles

## Medium-Duty Support for Isuzu

- Supports the following vehicle models from 2008 - 2017 with either the 5.2L (4HK1) or 3.0L (4JJ1) engine in both North America and Australia for F-Series faults (engine and DEF only) and N-Series faults and data (engine, DEF, and transmission only)
- Supports the medium duty GMLAN messages
- Gives users the ability to read and clear faults and read freeze frames
  - **NOTE:** Access to clear faults can be removed. Contact Noregon support for more information.
- Displays emission test results in North America
- **Bi-Directional Support for:**
  - **Cylinder Cut Out**
    - **5.2L (4HK1) or 3.0L (4JJ1)** engine in North America
  - **DPF Service Regen**
    - **5.2L (4HK1) or 3.0L (4JJ1)** engine in North America

## Medium-Duty Support for Sprinter

- Supports 2007 - 2015 Sprinter vehicles
- Sprinter support gives users the ability to read and clear faults, read sensor data and display emission test results
  - **NOTE:** Access to clear faults can be removed. Contact Noregon support for more information.
- **Bi-Directional Support for Sprinter Engines:**
  - **Cylinder Cut Out**
    - **EPA 07** Diesel engines
  - **Compression Test**
    - **EPA 07** Diesel engines
  - **Manual DPF Service Regen**
    - **EPA 07** Diesel engines
  - **Injector Quantity Adjustment**
    - **EPA 07** Diesel engines
  - **Initialize Rail Pressure**
    - **EPA 07** Diesel engines
- **Bi-Directional Support for Sprinter Instrument Clusters:**
  - **Oil Change Reset**
    - **2007 - 2015** Instrument Cluster
  - **Display Dimmer Test Routine**
    - **2007 - 2015** Instrument Cluster
  - **Gauge Sweep Test**
    - **2007 - 2015** Instrument Cluster

- **LCD Display Test Routine**
  - 2007 - 2015 Instrument Cluster
- **Speaker Test Routine**
  - 2007 - 2015 Instrument Cluster
- **Bi-Directional Support for Sprinter Tire Pressure Monitor ECU:**
  - **Tire Pressure Monitor Test**
    - 2007 - 2015 TPM

## GENERAL FEATURES

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- Diagnoses all vehicle components in a single application.
- Automatically connects to all supported and available data buses on the vehicle.
- Enhanced VIN decoding for North American VINs.
  - Vehicle Series provided when available.
- Displays fault codes for all components on the supported data bus protocols.
- Displays manufacturer flash codes and descriptions for faults when available.
- Access to historical fault data from previous JPRO® connections which can be used to identify intermittent vehicle issues.
  - **NOTE:** Requires internet access.
- Provides key data points in graphical displays for vehicle and components.
- Automatically displays all component parameters of interest in the Data Monitor.
  - Search, sort, or filter capabilities to easily identify parameters of interest.
  - Graph parameter changes over time.
  - Export up to the last 5 minutes of graphed data to local file.
- Data can be displayed in Metric or English units of measurement.
- Vehicle Readiness List displays information about each identified component.
- ECUs displayed on the Vehicle Tree with active faults are marked with a red exclamation point.
- Demo mode in Vehicle History enables users to explore JPRO features quickly and easily without needing access to vehicles.
- Access to 'What's New' document showing all supported features from the Connection Selection and Help menu.

## Education and Troubleshooting Features

- Virtual Truck feature enables exercising JPRO features including bi-directional tests for training and educational purposes without the need for an actual truck connection.
  - Freightliner truck illustrates a Cummins engine aftertreatment issue and a brake issue with Wabco brakes.
  - Volvo truck highlighting Bendix capabilities.
  - Komatsu equipment highlighting off-highway capabilities.
- Bendix Demo Truck demonstrates the tests and data available for various Bendix ECU versions and configurations.
  - **NOTE:** This is for demonstration purposes only. Tests and data may not function realistically.
- Integrates with Noregon's NextStep™ Fault Guidance to provide troubleshooting guidance.
  - View troubleshooting information, wiring diagrams and step-by-step troubleshooting procedures for a fault with one click in JPRO® Commercial Vehicle Diagnostics.
  - Enhanced integration features from the troubleshooting repair view:
    - View fault related data while simultaneously viewing repair procedures.
    - Clear faults to verify the repair without leaving the Fault Guidance screen.
      - **NOTE:** Access to this can be removed. Contact Noregon support for more information.
    - Access Bi-Directional functionality directly from the troubleshooting repair view.
    - Access to installed Maintenance or Service Data on the Fault Guidance screen.
  - Works on vehicle without requiring a VIN.
  - The following are currently supported
    - Heavy Duty engines and aftertreatment systems.
    - All Bendix components
    - Wabco components
    - Eaton transmissions
    - Ford and GM medium-duty engine and aftertreatment faults.
  - Regular content updates to add more fault and component coverage.
    - **NOTE:** NextStep™ Fault Guidance is only available when JPRO® Professional Diagnostic Software with NextStep™ is the purchased product.
- View NextStep™ Repair information and repair procedures in Fault Guidance when you connect your NextStep™ Repair license key to JPRO.
  - **NOTE:** NextStep™ Repair is a separate annual subscription to an interactive maintenance guide created and maintained by top ASE, OE, and JPRO-certified technicians. Click the NextStep Repair™ main toolbar button to visit the website for details.
- Download Service Data Sheets for Wabco, Bendix, and Haldex brakes, as well as Eaton transmissions.
  - **NOTE:** only available when JPRO® Professional Diagnostic Software with NextStep™ is the purchased product.
- Access to Maintenance or Service Data in the fault window by automatically linking to available service data sheets for the selected fault.
  - **NOTE:** NextStep™ Fault Guidance and Maintenance or Service Data Sheets for Wabco, Bendix, and Haldex brakes as well as Eaton transmissions are only available when JPRO® Professional Diagnostic Software with NextStep™ is the purchased product.

- Repair Mentor, an enhanced vehicle health indicator and assisted diagnostics tool, prioritizes vehicle issues and provides guidance for diagnosis and repair for heavy-duty vehicle connections.
- Most Likely Repair, available from Repair Mentor and Fault Guidance, provides information on the most frequent repairs for a fault.
  - **NOTE:** Requires internet access.
- Possible Unrepaired Recalls, available from Repair Mentor and Fault Guidance, provides detailed information on possible NHTSA recalls for the connected vehicle.
  - **NOTE:** Requires internet access.
- ECU Version Check will inform technicians when a firmware update is available for:
  - Cummins ECMs
  - Detroit Diesel CPC, MCM, and ACM ECUs
  - **NOTE:** Visiting the dealership or having the correct OEM software is required to flash an ECU to the latest firmware.
- Overall vehicle health indicators including No J1939 Data, Cannot Detect Engine, Excessive CAN Error Frames, Active Faults Present, DPF Regen Inhibited, DPF Regen Needed, Consumable Fluid(s) Low, Battery Voltage Low, and Cannot Detect ABS.
- Fault Assistance providing technician-friendly descriptions for fault status values from both the Fault Display and the Data Monitor.
- FMI Assistance providing technician-friendly descriptions for fault code FMI values from both the Fault display and the Data Monitor.
- Industry Terms definitions available from the Fault Grid, Fault Guidance window, and the Data Monitor window.
- EPA Assistance available from the Data Monitor window provides a basic explanation of EPA standards, the systems and technologies involved as well as manufacturer examples.
- Lookup Code Assistant provides a reference for the equivalent term used in an ECU's Service Data Sheet.
- Power Diagram and Electrical Assistance available in Data Monitor to aid in the diagnosis of electrical problems for heavy-duty vehicle connections.
- Diagnostic connector pinout diagrams for Heavy-Duty and Medium-Duty cable connectors to aid in troubleshooting connection issues.
- Provides data bus utilization statistics on live heavy-duty and medium-duty vehicle connections.
- Displays CAN error frame data to aid in diagnosing communication issues.
- The Resource Portal enables quick access to the JPRO Certification program as well as other OEM training resources.
- Link to Noregon's library of training videos.
- Noregon Tech Tips educational and training videos will automatically play during vehicle connections while initial data is gathered to aid technicians in getting the most out of JPRO.
- Auto-launch of JPRO News & Insights information providing quick access to technician tips, white papers, and other information to aid technicians in getting the most out of JPRO.

## Reporting Features

- Prints reports containing faults and key data.
- Automatically captures a vehicle snapshot recording containing all available ECUs and parameters on every vehicle connection.
- Ability to manually record logs for up to 1 hour of vehicle data for later analysis. Log will contain all ECU and parameter data that is requested and reported during the recording.
  - **NOTE:** Log recording time may be limited by computer system resources.
- Ability to playback recorded logs and monitor parameters via Data Monitor.
- Ability to perform customized Preventative Maintenance Inspections. Inspection available in XML format as well as in PDF report format.
- Ability to perform customized Vehicle Inspections.
  - Checklists and Visual Inspection supports vehicle types: Tractor, Trailer, Box Truck, Bus and Truck.
  - Customize the inspection checklist for each vehicle type via Preferences.
  - Take notes and draw on default images or uploaded pictures for visual inspection.
  - Vehicle Components, Vehicle Key Data Points, Vehicle Issues, and Faults information included when inspection created from a live-vehicle connection or log file playback.
  - Optional disclaimer setup via Preferences.
  - Supports saving customer signature as part of the Vehicle Inspection report.
  - View and print a complete Vehicle Inspection Report.

## Integration Features

- **NEW!** Launches OEM component diagnostic applications from the Software Connection Warnings dialog.
- Register and view your Technician as a Service (TaaS) license information in JPRO. An active, registered license is required for TaaS support
  - **NOTE:** TaaS is a separate product purchase that provides live support from Noregon master technicians and is registered to a single computer. Click the TaaS Support main toolbar button for more information or to register your TaaS license.
- Automatically detects OEM applications and provides convenient methods to launch them.
- Ability to download or launch Truck Check Up from OEM Portal when it is released.
  - **NOTE:** Download link currently opens [Clean Truck Check](#) information website.

- Link to download ServiceMaxx diagnostic applications from OEM Application Portal.
- Launches OEM component diagnostic applications in Fault Code Information. Simply click on the OEM application icon to launch the application for more information about that component.
- Ability to integrate with third-party applications to collect vehicle data using JPRO's Data Collector API. Contact Noregon support for more information.
- Search mechanism to link to troubleshooting guides.
- Support report submission to Bendix by emailing the Bendix DTC Report to TechTeam@Bendix.com.
- Support submissions by enabling you to upload vehicle details to:
  - + **The ASIST platform**, developed by Decisiv, for Volvo and Mack dealers.
  - + **PACCAR Solutions**, developed by Decisiv, for PACCAR dealers.
  - + **ISUZU Connect**, developed by Decisiv, for Isuzu dealers.
  - + **HINO INSIGHT**, developed by Decisiv, for Hino dealers
  - + **Navistar's OnCommand™ service**
  - + **Ruan Transportation Management Systems**
    - **NOTE:** Access to this feature is disabled by default. Please contact Noregon support for more information.
  - + **Trimble's TMT/TMW service**
    - Edit and correct mileage and VIN information upon warranty submission. See submission history information via Vehicle History.
- Optional automatic submission of vehicle data to Navistar's OnCommand™ service when disconnecting from a vehicle.
  - **NOTE:** Internet access is required for Decisiv (ASIST, PACCAR Solutions, ISUZU Connect, or HINO INSIGHT), and OnCommand™ Warranty submissions.
  - **NOTE:** Submitting Warranty to Decisiv (ASIST, PACCAR Solutions, ISUZU Connect, or HINO INSIGHT) requires personnel with Decisiv Admin level access to provide the Dealer ID or Decisiv App Username and Password. These items must be configured in Preferences.
  - **NOTE:** Submitting to Trimble's TMT/TMW service requires personnel with access to provide the Trimble URL, Username, and Password. These items must be configured in Preferences.

## Configuration Features

- Ability to configure the application to launch at computer startup.
- Ability to automatically switch between USB, Wi-Fi®, or Bluetooth® when connecting with a DLA+ 3.0 Wireless adapter.
- Ability to automatically switch between USB or Wi-Fi® when connecting with a DLA+ 2.0 Wireless, or DLA+ Wireless adapter.
- Ability to remove access to setting road and cruise speed limits. If interested in limiting these capabilities, contact Noregon support ([support@noregon.com](mailto:support@noregon.com)).

## Product Support Features

- Links to contact Noregon support or sales from within the application.
- Links to enable remote access for support.
- Support for automatic updates.
- Easy access to Noregon DLA+ family adapter test tools to aid in diagnosing connection problems.

## HEAVY-DUTY FEATURES

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- Heavy Duty supports all standard Heavy-Duty vehicles. VIN is not required for vehicle connections.
- Supports the heavy-duty SAE J1587/J1708, J1939, ISO 15765 and KWP2000 messages.
- Supports trailer diagnostics using:
  - PLC 7-way connector combined with a Noregon Trailer Diagnostic adapter or the Noregon DLA+ PLC.
  - Universal J560 PLC Adapter combined with a Noregon DLA+ 3.0, DLA+ 2.0, DLA+, DLA+ 3.0 Wireless, DLA+ 2.0 Wireless, DLA+ Wireless, or DLA+ PLC adapter.
  - 4-pin to 9-pin extended diagnostic cable adapter combined with a Noregon DLA+ 3.0, DLA+ 2.0, DLA+, DLA+ 3.0 Wireless, DLA+ 2.0 Wireless, or DLA+ Wireless adapter.
  - Trailers equipped with 9-Pin SAE J1939 connector using a Noregon DLA+ 3.0, DLA+ 2.0, DLA+, DLA+ 3.0 Wireless, DLA+ 2.0 Wireless, DLA+ Wireless, or DLA+ PLC adapter.
- Supports reading and display of HD-OBID Emissions faults in standard fault display.
- Supports reading freeze frame data for 1939 faults that have that data available.
- Clear indication of overall vehicle health considering:
  - + No 1939 Data (on 2009 or newer vehicles)
  - + Cannot Detect Engine
  - + Excessive CAN Error Frames
  - + Active Faults Present
  - + DPF Regen Inhibited
  - + DPF Regen Needed
  - + Consumable Fluid(s) Low
  - + Battery Voltage Low
  - + Cannot Detect ABS (on 2001 or newer vehicles)



- JPRO® Road Worthiness assesses a vehicle's safety and compliance for over-the-road operation by checking:
  - + No ABS faults reported, or lamps illuminated
  - + Max Road Speed < 80 mph
  - + DPF Pressure is reported
- Display of data related to reported faults in Data Monitor.
- Graphically displays data using thermometers, gauges, etc. on the Data Monitor.
- Pre-defined Data Groups in Data Monitor enables troubleshooting electrical problems and common performance complaints.
- Ability to define custom groups of related data parameters to display in Data Monitor.
- Subsystems Diagnostics menu provides the ability to view the following subsystems with related data:
  - + Aftertreatment Diagnostics
  - + Coolant System
  - + Fuel System
  - + Oil System
  - + ADAS
- Coolant System displays data from related components to assist in troubleshooting coolant system issues.
  - o **NOTE:** *Coolant System display for CAT components not currently available.*
- Fuel System displays data from related components to assist in troubleshooting fuel system issues.
  - o **NOTE:** *Fuel System display for Mack and Volvo components not currently available.*
- Ability to launch Cylinder Cut Out directly from Fuel System screen.
- Oil System displays data from related components to assist in troubleshooting oil system issues.
- ADAS displays faults and data from related components to assist in troubleshooting Advanced Driver Assistance System issues.
- Aftertreatment Diagnostics displays data from aftertreatment related components, including Soot Level, current Regen Zone Information, and EGR data for rapid troubleshooting of the aftertreatment system.
  - o Ability to view the following subsystems with related data:
    - + DEF Tank and Pump
    - + DPF and DOC
    - + Engine, EGR, and Turbocharger
    - + SCR
  - o Clicking the Bi-Directional button on any of the Aftertreatment Diagnostics subsystem screens displays tests supporting the related subsystem components.
  - o Search the Data tab to quickly identify parameters of interest.
- Emissions Assistance from the Aftertreatment screen to aid in troubleshooting emissions problems.
- Regen Zone Information window helps technicians better understand DPF systems on today's diesel trucks. The Regen Zone window educates users on the meaning behind each Regen Zone.
  - o Showing how each zone relates to DPF soot loading and engine derate.
  - o When performing a parked regeneration is most beneficial or required.
- Ability to launch Maximum Road Speed, Cruise Speed, and Idle Shutdown parameter adjustments directly from the Vehicle Key Data Points display if available.
- Ability to launch PTO parameter adjustments directly from the Vehicle Key Data Points display if available.
- Consumable Fluid screen to monitor fluids used by vehicle and inform user of low levels.
- Displays the trailer lamp status on tractor brake key data point's window.
- Wheel Speed Window Test and Wheel Speed Chart Test used to verify and test wheel speed sensors on all tractor and trailer braking systems.
- The Wiggle Test / Performance Issue Monitor bi-directional test assists in diagnosing loose electrical connections, intermittent faults, and performance complaints by alerting users to changes in monitored data.

## HARDWARE / SOFTWARE CONFIGURATION

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- The following operating systems are supported:
  - o **Windows 10** (both 32 and 64-bit versions)
  - o **Windows 11**
  - o **Note: Spanish operating systems are supported.**

# NOTES

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1. Registration is required before the JPRO® Commercial Vehicle Diagnostics application can be used. Valid license key(s) will be required in order to register the application. Please ensure you have license key information available before you install. Registration over the internet is required; offline registration is not supported. A confirmation code may be required to complete registration. If this is the case, the confirmation code will be sent to the email address used during registration and must be provided to complete registration
2. The appropriate vehicle adapter driver must be installed in order to connect to a vehicle adapter device. This installation is separate and independent of the JPRO® Commercial Vehicle Diagnostics installation. Only the Noregon DLA+ 3.0, DLA+ 3.0 Wireless, Noregon DLA+ 2.0, DLA+ 2.0 Wireless, Trailer Diagnostic Adapter, DLA+, DLA+ Wireless, and DLA+ PLC adapters are supported.
3. The Noregon DLA+ 3.0, DLA+ 3.0 Wireless, Noregon DLA+ 2.0, DLA+, DLA+ 2.0 Wireless or DLA+ Wireless adapters are required in order to connect to the Ford, GM, Isuzu or Sprinter Medium Duty vehicles. Please ensure you have the latest driver and firmware loaded.
  - To connect to Ford, use the OBDII Cable for Ford (red).
  - To connect to GM, use the OBDII Cable for GM (yellow).
  - To connect to Sprinter, use the OBD Cable for Sprinter (blue for DLA+ adapter family or gray for DLA+ 3.0 and DLA+ 2.0 adapter family).
  - To connect to Hino or Isuzu, use the Generic OBD Cable (blue or gray)
4. JPRO® Off-Highway only supports the following Noregon adapters:
  - DLA+ 3.0 or DLA+ 3.0 Wireless adapter
  - DLA+ 2.0 or DLA+ 2.0 Wireless adapterTo purchase Off-Highway cables for the DLA+ 3.0, DLA+ 2.0, DLA+ 3.0 Wireless, or DLA+ 2.0 Wireless adapter, please visit <https://jpronewsandinsights.kinsta.cloud/cable-connection-guide/>, Email [jproslutions@noregon.com](mailto:jproslutions@noregon.com) or call 855-889-JPRO (5776) toll-free.
5. Trailer diagnostic connections with the Universal J560 PLC Adapter must be combined with a Noregon DLA+ 3.0, DLA+ 3.0 Wireless, Noregon DLA+ 2.0, DLA+, DLA+ 2.0 Wireless, DLA+ Wireless, or DLA+ PLC adapter.
6. Trailer diagnostic connections with the 4-pin to 9-pin extended diagnostic cable adapter combined with a Noregon DLA+ 3.0, DLA+ 3.0 Wireless, Noregon DLA+ 2.0, DLA+, DLA+ 2.0 Wireless or DLA+ Wireless adapter