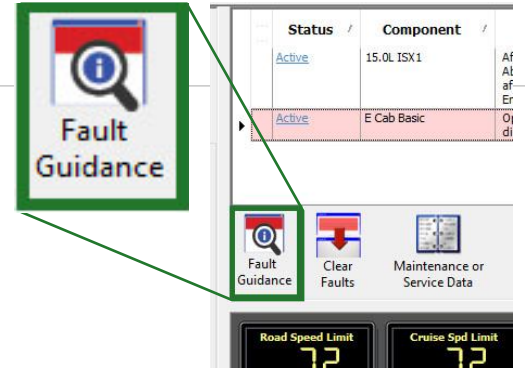


WHAT'S NEW

Fault Guidance is Now on the Fault Grid

- Access Fault Guidance by clicking the Fault Guidance button on the Fault Grid.



JPRO[®] Heavy-Duty Features

Engine Support

Heavy-Duty Support for PACCAR

- Fixed an issue that prevented some aftertreatment tests from displaying for EPA13 to GHG17 MX engines.
- Bi-Directional support for PACCAR engines:

Bi-Directional Test	Supported On
Activate Air Shut Off Valve	GHG17 to GHG21 all MX engines
Prime the System with the Pump for DEF	GHG17 all MX engines

Transmission Support

Heavy-Duty Support for Detroit Diesel

- Now supports proprietary sensor data for:
 - ✓ DT12 TCM01T
- Supports reading SAE faults and proprietary sensor data for:
 - ✓ DT12 TCM05T
- Bi-Directional support for Detroit Diesel transmissions:

Bi-Directional Test or Calibration	Supported On
Clutch Apply Leak Test	DT12 TCM01T and TCM05T transmissions
Tilt Sensor Calibration	DT12 TCM05T transmissions
Transmission Learn Procedure Test	Now Supports DT12 TCM05T transmissions

JPRO® Off-Highway Features

Off-Highway Support for Komatsu

- Bi-Directional support for Komatsu equipment:

Bi-Directional Test or Calibration	Supported On
Aftertreatment Injector Flow Test	SAA6D107E-3, SAA6D114E-6, SAA6D125E-7, and SAA4D95LE-7 engines
Aftertreatment Injector Leak Test	SAA6D107E-3, SAA6D114E-6, SAA6D125E-7, and SAA4D95LE-7 engines
Aftertreatment Injector Shutoff Valve Test	SAA6D107E-3, SAA6D114E-6, SAA6D125E-7, and SAA4D95LE-7 engines
DEF Doser Pump Override Test	SAA6D107E-3, SAA6D114E-6, SAA6D125E-7, and SAA4D95LE-7 engines
VGT Hysteresis Test	SAA6D107E-3, SAA6D114E-6, SAA6D125E-7, and SAA4D95LE-7 engines

Off-Highway Support for Kubota

- Bi-Directional support for Kubota engines:

Bi-Directional Test or Calibration	Supported On
Cylinder Cut Off Test	V3307-CR-TE4, and V3800-TIEF4 engines on applicable equipment
DPF Regen	V3307-CR-TE4, and V3800-TIEF4 engines on applicable equipment

JPRO® Medium-Duty Features

Off-Highway Support for Ford

- Fixed an issue that caused some newer model bi-directional tests to incorrectly display a “test not started” error message.

General Features

Integration Features

- 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.

PRODUCT OPTIONS

JPRO® Professional Diagnostic Software

Includes the following features:

- ✓ JPRO® Heavy-Duty Features
- ✓ JPRO® Off-Highway Features
- ✓ JPRO® Medium-Duty Features
- ✓ General Features List
 - Education and Troubleshooting Features
 - Reporting Features
 - Integration Features
 - Configuration Features
 - Product Support Features
- ✓ All Makes, All Models Coverage:

Engines

- ✓ [Agility \(Fuel System\)](#)
- ✓ [Bobcat Off-Highway](#)
- ✓ [CAT On-Highway](#)
- ✓ [CAT Off-Highway](#)
- ✓ [ClearFlame](#)
- ✓ [Cummins](#)
- ✓ [Detroit Diesel](#)
- ✓ [Deutz](#)
- ✓ [EControls](#)
- ✓ [Ford](#)
- ✓ [GM](#)
- ✓ [Hino](#)
- ✓ [International](#)
- ✓ [Isuzu](#)
- ✓ [John Deere Off-Highway](#)
- ✓ [Komatsu Off-Highway](#)
- ✓ [Kubota Off-Highway](#)
- ✓ [Mack](#)
- ✓ [Mercedes-Benz](#)
- ✓ [PACCAR](#)
- ✓ [Sprinter](#)
- ✓ [Volvo](#)

Transmissions

- ✓ [Allison](#)
- ✓ [Detroit Diesel](#)
- ✓ [Eaton](#)
- ✓ [Ford](#)
- ✓ [GM](#)
- ✓ [Mack](#)
- ✓ [Sprinter](#)
- ✓ [Volvo](#)
- ✓ [ZF Meritor](#)

Braking Systems

- ✓ [Bendix](#)
- ✓ [Ford](#)
- ✓ [GM](#)
- ✓ [Haldex](#)
- ✓ [Sprinter](#)
- ✓ [Wabash](#)
- ✓ [Wabco](#)

Body & Chassis

- ✓ [Alexander Dennis](#)
- ✓ [Bluebird](#)
- ✓ [Dana](#)
- ✓ [Detroit Assurance](#)
- ✓ [Ford](#)
- ✓ [Freightliner](#)
- ✓ [Fuso](#)
- ✓ [GM](#)
- ✓ [International](#)
- ✓ [Kenworth](#)
- ✓ [Mack](#)
- ✓ [Peterbilt](#)
- ✓ [Prevost](#)
- ✓ [Sterling](#)
- ✓ [Sprinter](#)
- ✓ [Thomas Built](#)
- ✓ [Volvo](#)
- ✓ [Van Hool](#)
- ✓ [Western Star](#)

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

JPRO® Professional Diagnostic Software with NextStep® Repair

Includes all features in JPRO® Professional Diagnostics Software.

Also, includes the following features:

- Integrates with 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.
- 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.
- Automatically link to Maintenance and Service Data sheets for Wabco, Bendix, and Haldex brakes as well as Eaton transmissions.

JPRO® Professional Diagnostic Software for AU

Includes the following features:

- JPRO® Heavy-Duty Features
- JPRO® Off-Highway Features
- JPRO® Medium-Duty Features
- General Features List
 - Education and Troubleshooting Features
 - Reporting Features
 - Integration Features
 - Configuration Features
 - Product Support Features

- Coverage Support includes:

Engines	Transmissions	Braking Systems	Body & Chassis
✓ Bobcat Off-Highway	✓ Allison	✓ Bendix	✓ Bluebird
✓ CAT On-Highway	✓ Detroit Diesel	✓ Haldex	✓ Dana
✓ CAT Off-Highway	✓ Eaton	✓ Sprinter	✓ Freightliner
✓ ClearFlame	✓ Sprinter	✓ Wabash	✓ International
✓ Cummins	✓ ZF Meritor	✓ Wabco	✓ Kenworth
✓ Detroit Diesel			✓ Peterbilt
✓ Deutz			✓ Sprinter
✓ EControls			✓ Sterling
✓ Hino			✓ Thomas Built
✓ International			✓ Western Star
✓ Isuzu			
✓ John Deere Off-Highway			
✓ Komatsu Off-highway			
✓ Kubota Off-Highway			
✓ Mercedes-Benz			
✓ PACCAR			
✓ Sprinter			

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

NOTE: Bi-Directional tests are not supported in Australia.

NOTE: Mack and Volvo, Ford, and GM are not supported in Australia.

JPRO® HEAVY-DUTY FEATURES

- 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-OBD 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.

NOTE: Coolant System display for CAT components not currently available.

- Fuel System displays data from related components to assist in troubleshooting fuel system issues.

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.
 - Ability to view the following subsystems with related data:
 - ✓ DEF Tank and Pump
 - ✓ DPF and DOC
 - ✓ Engine, EGR, and Turbocharger
 - ✓ SCR
 - Clicking the Bi-Directional button on any of the Aftertreatment Diagnostics subsystem screens displays tests supporting the related subsystem components.
- 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.
 - Showing how each zone relates to DPF soot loading and engine derate.
 - 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.

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:

Bi-Directional Test or Calibration	Supported On
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 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
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:

Bi-Directional Test or Calibration	Supported On
Aftertreatment History	EPA 10: all ISB, ISC, ISL, ISX EPA 13: all ISB, ISL, ISX GHG17: all B6.7, L9, X15 GHG21: all B6.7, L9, 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 Test	CNG: All ISX 12G and ISX12N

Bi-Directional Test or Calibration	Supported On
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), 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, X12, 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, 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 <ul style="list-style-type: none"> ✓ Limited Restart ✓ Shutdown ✓ Shutdown Manual Override <p><i>NOTE: Access to this can be removed. Contact Noregon support for more information.</i></p>	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
Fan Override Test	EPA 10: all ISB, ISC, ISL, ISX EPA 13: all ISB, ISL, ISX GHG17: all B6.7, L9, X15 GHG21: all B6.7, L9, 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

Bi-Directional Test or Calibration	Supported On
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, ISX EPA 13: all ISB, ISL, ISX GHG17: all B6.7, L9, X15 GHG21: all B6.7, L9, X15
Maintenance Monitor Parameters	EPA 10: all ISB, ISC, ISL, ISX EPA 13: all ISB, ISL, ISX GHG17: all B6.7, L9, X15 CNG: All ISL, ISX, ISB

Bi-Directional Test or Calibration	Supported On
<p>PTO Parameters</p> <p><i>PTO:</i></p> <ul style="list-style-type: none"> ✓ Enable/Disable ✓ Additional Switch Pedal ✓ Maximum Engine Load ✓ Maximum Speed ✓ Minimum Speed ✓ Maximum Vehicle Speed ✓ Ramp Rate ✓ Resume Switch Speed ✓ Set Switch Speed <p><i>Accelerator Pedal or Lever Override:</i></p> <ul style="list-style-type: none"> ✓ Enable/Disable ✓ Maximum Engine Speed <p>NOTE: Access to this can be removed. Contact Noregon support for more information.</p>	<p>EPA 07: all ISB, ISC, ISL, ISM, ISX, PX-6, and PX-8</p> <p>EPA 10: all ISB, ISC, ISL, ISX, PX-6, and PX-8</p> <p>EPA 13: all ISB, ISL, ISX, PX-7, and PX-9</p> <p>GHG17: all B6.7, L9, X15, PX-7, and PX-9</p> <p>CNG: All ISX 12G and ISX12N</p> <p>GHG21: all B6.7, L9, X15, PX-7, and PX-9</p>
<p>Road & Cruise Speed Limits</p> <p><i>Road Speed Governor:</i></p> <ul style="list-style-type: none"> ✓ Maximum Vehicle Speed ✓ Maximum Accelerator Vehicle Speed (Road Speed Limit) ✓ Lower Droop ✓ Upper Droop <p><i>Cruise Control:</i></p> <ul style="list-style-type: none"> ✓ Maximum Cruise Control Speed <p><i>Gear Down Protection:</i></p> <ul style="list-style-type: none"> ✓ Enable/Disable ✓ Gear Down Maximum Vehicle Speed (Heavy Engine Load) ✓ Gear Down Maximum Vehicle Speed (Light Engine Load) <p>NOTE: Access to this can be removed. Contact Noregon support for more information.</p>	<p>EPA 07: all ISB, ISC, ISL, ISM, ISX, PX-6, and PX-8</p> <p>EPA 10: all ISB, ISC, ISL, ISX, PX-6, and PX-8</p> <p>EPA 13: all ISB, ISL, ISX, PX-7, and PX-9</p> <p>GHG17: all B6.7, L9, X15, PX-7, and PX-9</p> <p>CNG: All ISX 12G and ISX12N</p> <p>GHG21: all B6.7, L9, X15, PX-7, and PX-9</p>
<p>SCR Performance and System Test</p>	<p>EPA 13: all ISB, ISL, ISX, PX-7, and PX-9</p> <p>GHG17: all B6.7, L9, X12, X15, PX-7, and PX-9</p> <p>GHG21: all B6.7, L9, X15, PX-7, and PX-9</p>

Bi-Directional Test or Calibration	Supported On
<p>Trip Information Parameters</p> <ul style="list-style-type: none"> ✓ Vehicle Overspeed 1 ✓ Vehicle Overspeed 2 <p>NOTE: Access to this can be removed. Contact Noregon support for more information.</p>	<p>EPA 07: all ISB, ISC, ISL, ISM, ISX, PX-6, and PX-8</p> <p>EPA 10: all ISB, ISC, ISL, ISX, PX-6, and PX-8</p> <p>EPA 13: all ISB, ISL, ISX, PX-7, and PX-9</p> <p>GHG17: all B6.7, L9, X15, PX-7, and PX-9</p> <p>CNG: All ISX 12G and ISX12N</p> <p>GHG21: all B6.7, L9, X15, PX-7, and PX-9</p>
<p>Trip Reset</p>	<p>EPA 07: all ISB, ISC, ISL, ISM, ISX, PX-6, and PX-8</p> <p>EPA 10: all ISB, ISC, ISL, ISX, PX-6, and PX-8</p> <p>EPA 13: all ISB, ISL, ISX, PX-7, and PX-9</p> <p>GHG17: all B6.7, L9, X15, PX-7, and PX-9</p> <p>CNG: All ISX 12G and ISX12N</p> <p>GHG21: all B6.7, L9, X15, PX-7, and PX-9</p>
<p>VGT Electronic Actuator Installation and Calibration</p>	<p>EPA 07: all ISB, ISC, ISL, ISM, ISX, PX-6, and PX-8</p> <p>EPA 10: all ISB, ISC, ISL, ISX, PX-6, and PX-8</p> <p>EPA 13: all ISB, ISL, ISX, PX-7, and PX-9</p> <p>GHG17: all B6.7, L9, X15, PX-7, and PX-9</p> <p>GHG21: all B6.7, L9, X15, PX-7, and PX-9</p>
<p>VGT Hysteresis Test</p>	<p>EPA 10: all ISB, ISC, ISL, ISX (12L and 15L), PX-6, and PX-8 with Common Rail Fuel Systems</p> <p>EPA 13: all ISB, ISL, ISX (12L and 15L), PX-7, and PX-9 with Common Rail Fuel Systems</p> <p>GHG17: all B6.7, L9, X15, PX-7, and PX-9 with Common Rail Fuel Systems</p> <p>GHG21: all B6.7, L9, X15, PX-7, and PX-9 with Common Rail Fuel Systems</p>

Bi-Directional Test or Calibration	Supported On
<p>VSS Parameters</p> <p><i>Vehicle Speed Sensor Anti-Tampering Sensitivity:</i></p> <ul style="list-style-type: none"> ✓ Tampering Sensitivity Level <p><i>Vehicle Speed Source:</i></p> <ul style="list-style-type: none"> ✓ Maximum Engine Speed Without Vehicle Source ✓ Number of Transmission Tailshaft Gear Teeth ✓ Rear Axle Ratio ✓ Vehicle Speed Sensor Type <p>NOTE: Access to this can be removed. Contact Noregon support for more information.</p>	<p>EPA 07: all ISB, ISC, ISL, ISM, ISX, PX-6, and PX-8</p> <p>EPA 10: all ISB, ISC, ISL, ISX, PX-6, and PX-8</p> <p>EPA 13: all ISB, ISL, ISX, PX-7, and PX-9</p> <p>GHG17: all B6.7, L9, X15, PX-7, and PX-9</p> <p>CNG: All ISX 12G and ISX12N</p> <p>GHG21: all B6.7, L9, X15, PX-7, and PX-9</p>

Note: PX engines are PACCAR branded.

Heavy-Duty Support for Detroit Diesel

- Supports proprietary sensor data on all 2000 model year and newer Detroit Diesel engines with [Supported ECU Software Versions \(click the link to see supported software versions\):](#)
 - 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 Software Version, select the engine and look in the bottom left of JPRO.

- Bi-Directional support for Detroit Diesel engines:

Bi-Directional Test or Calibration	Supported On
<p>Cruise Speed Limits</p> <ul style="list-style-type: none"> ✓ Max Cruise Set Speed ✓ Min Cruise Set Speed <p>NOTE: Access to this can be removed. Contact Noregon support for more information.</p>	<ul style="list-style-type: none"> • CPC02T • CPC04T • CPC302T • CPC501T
<p>Cylinder Cut Out</p>	<ul style="list-style-type: none"> • Any supported CPC with MCM02T or MCM21T

Bi-Directional Test or Calibration	Supported On
DEF Coolant Valve Control Test	<ul style="list-style-type: none"> • Any supported CPC with ACM02T and MCM02T • Any supported CPC with MCM21T and with ACM21T or ACM301T
DEF Quantity Test	<ul style="list-style-type: none"> • Any supported CPC with ACM02T, ACM21T, or ACM301T
DOC Face Plug Cleaning	<ul style="list-style-type: none"> • CPC02T with MCM02T • CPC04T with MCM02T or MCM21T
DPF Ash Accumulator Reset	<ul style="list-style-type: none"> • CPC02T with ACM02T • CPC04T with ACM21T • CPC302T with ACM21T or ACM301T and with MCM21T • CPC501T with MCM21T and with ACM21T or ACM301T •
DPF Service Regen	<ul style="list-style-type: none"> • CPC02T • CPC04T • CPC302T • CPC501T with ACM02T, ACM21T, or ACM301T
EGR Actuator Slow Learn	<ul style="list-style-type: none"> • DD13 any supported CPC with MCM02T • DD15 or DD16 any supported CPC with MCM21T
EGR Delta Pressure Sensor Recalibration	<ul style="list-style-type: none"> • DD13 any supported CPC with MCM02T • DD15 or DD16 any supported CPC with MCM21T
Hydrocarbon Doser Purge	<ul style="list-style-type: none"> • Any supported CPC with MCM02T or MCM21T
Idle Shutdown <ul style="list-style-type: none"> ✓ Idle Shutdown Status ✓ Idle Shutdown Time 	<ul style="list-style-type: none"> • CPC02T • CPC04T • CPC302T • CPC501T
Intake Throttle Valve Test	<ul style="list-style-type: none"> • Any supported CPC with MCM02T

Bi-Directional Test or Calibration	Supported On
Metering Unit Flood Routine	<ul style="list-style-type: none"> Any supported CPC with MCM02T
Parked SCR Efficiency Test	<ul style="list-style-type: none"> CPC02T with ACM02T CPC04T with ACM02T or ACM21T CPC302T with ACM21T or ACM301T CPC501T with ACM21T or ACM301T
Performance Check Low Temp ATD	<ul style="list-style-type: none"> CPC02T with MCM02T CPC04T with ACM02T or ACM21T CPC302T with ACM21T
<p>PTO Parameters</p> <ul style="list-style-type: none"> General PTO Cab PTO Remote PTO Inputs <p><i>For the full list of supported parameters, see all 23 PTO Parameters</i></p> <p><i>NOTE: Access to this can be removed. Contact Noregon support for more information.</i></p>	<ul style="list-style-type: none"> CPC02T CPC04T CPC501T
<p>Road Speed Limits</p> <ul style="list-style-type: none"> ✓ Maximum Road Speed Limit <p><i>NOTE: Access to this can be removed. Contact Noregon support for more information.</i></p>	<ul style="list-style-type: none"> CPC02T CPC04T CPC302T CPC501T
SCR Air Pressure System Check	<ul style="list-style-type: none"> Any supported CPC with ACM02T
SCR Airless Doser System (ADS) Self Check	<ul style="list-style-type: none"> Any supported CPC with ACM02T or ACM21T
SCR Output Component Test	<ul style="list-style-type: none"> Any supported CPC with ACM02T and MCM02T or MCM21T Any supported CPC with ACM21T and MCM02T or MCM21T

Bi-Directional Test or Calibration	Supported On
<p>VSS Parameters</p> <ul style="list-style-type: none"> ✓ 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) <p>NOTE: Access to this can be removed. Contact Noregon support for more information.</p>	<ul style="list-style-type: none"> • CPC02T • CPC04T • CPC501T

Supported ECU Software Versions:

CPC Family ECUs				ACM Family ECUs			MCM Family ECUs	
CPC02T	CPC04T	CPC302T	CPC501T	ACM02T	ACM21T	ACM301T	MCM02T	MCM21T
App_010C	App_040A	App_2104	App_3105	acm_0x01EE	acm_0x023E	acm_0x0354	mcm_0x047B	mcm_0x06B2
App_010D	App_040B	App_2105	App_3106	acm_0x01EF	acm_0x024E	acm_0x0359	mcm_0x047C	mcm_0x06B9
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		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							

PTO Parameters

General PTO:

- | | |
|-------------------------------------|---------------------------------|
| ✓ Config PTO Speed Control | ✓ Max Road Speed in PTO Mode |
| ✓ PTO Remote Throttle Override Mode | ✓ PTO Ramp Rate |
| ✓ Throttle Override Max Eng Speed | ✓ PTO Cab Switches Mode |
| ✓ PTO Dropout Serv Brk Prk Brk | ✓ PTO Accel Pedal Override Mode |
| ✓ PTO Dropout on Clutch Enabled | ✓ 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 Mode
- ✓ 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

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, TBL-400
 - EMR 4 - EDC 17 CV54 on TBL-180
 - EMR3 - EDC 16 UC40 on Safeaero 220, Tug MT
 - EMR3 - EDC 7 UC31 on Safeaero 220, Tug MT
 - EMR4 - EDC 17 CV52 on Safeaero 220, Tug 660, Tug GT-35, Tug M1A, Tug MA, Tug MH, Tug MR
 - EMR4 - EDC 17 CV54 on Tug GT-35, Tug MH, 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, Tug MA
 - EControls ECM 4G on Tug 660, Tug Alpha, Tug M1A, 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:

Bi-Directional Test or Calibration	Supported On
Actuator Test	<ul style="list-style-type: none"> • Aftertreatment (AFT) Fuel Shutoff Valve <ul style="list-style-type: none"> ○ EPA 10 Maxxforce 11, and 13 engines ○ A26 engines • Aftertreatment (AFT) Fuel Doser <ul style="list-style-type: none"> ○ EPA 10 Maxxforce 11, and 13 engines • Engine Throttle Valve Position <ul style="list-style-type: none"> ○ EPA 10 Maxxforce 11, and 13 engines ○ 2013 N13 and A26 engines • Exhaust Gas Recirculation (EGR) Valve Position <ul style="list-style-type: none"> ○ EPA 10 Maxxforce 11, and 13 engines ○ 2013 N13 and A26 engines • Exhaust Back Pressure Valve <ul style="list-style-type: none"> ○ EPA 10 Maxxforce 11, and 13 engines ○ 2013 N13 engines
Aftertreatment Fuel Enable Actuator Leak Test	A26 engines
Aftertreatment Hydrocarbon Doser Leak Test	A26 engines
Aftertreatment Hydrocarbon Dosing System Test	A26 engines
Aftertreatment Reset	EPA 07 and EPA 10 Maxxforce 11 and 13 engines

Bi-Directional Test or Calibration	Supported On
<p>Auxiliary Engine Speed Control (PTO) Parameters</p> <ul style="list-style-type: none"> • General parameters • Enable/Disable parameters • Preset parameters • Advanced Configuration parameters • Configuration parameters <p><i>For the full list of supported parameters, see all 59 Auxiliary Engine Speed Control (PTO) Parameters</i></p> <p>NOTE: Access to this can be removed. Contact Noregon support for more information</p>	<p>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</p>
<p>CDPF Reset</p>	<p>EPA 10 Maxxforce DT, 9 and 10 engines</p>
<p>Cylinder Cut Out</p>	<p>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</p>
<p>DEF Doser Pump Override Test</p>	<p>N9, N10, 2013 N13, and 2015 N13 engines</p>
<p>DOC/DPF Replacement Reset</p>	<p>N9, N10, 2013 N13, 2015 N13, and A26 engines</p>
<p>DPF Service Regen</p>	<p>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</p>
<p>Fuel Pressure Adaptation Reset</p>	<p>EPA 07 Maxxforce 7 engines EPA 13 Maxxforce 7 engines</p>
<p>Idle Shutdown Time</p> <ul style="list-style-type: none"> ✓ Idle Shutdown Timer Mode ✓ Engine Idle Shutdown Time ✓ Idle Shutdown Time – No Parking Brake Set ✓ Idle Shutdown Time with Park Brake 	<p>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</p>
<p>KOEO Injector Test</p>	<p>EPA 07 Maxxforce 7, DT, 9, and 10 engines EPA 10 Maxxforce DT, 9, and 10 engines N9 and N10 engines</p>
<p>KOEO Standard Test</p>	<p>EPA 07 Maxxforce 7, DT, 9, and 10 engines EPA 10 Maxxforce 7, DT, 9, and 10 engines N9, N10, and 2015 N13 engines</p>

Bi-Directional Test or Calibration	Supported On
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 Speeds <ul style="list-style-type: none"> ✓ 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 Mode <p><i>NOTE: Access to this can be removed. Contact Noregon support for more information.</i></p>	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
SCR Faults Reset	N9, N10, 2013 N13 2015 N13,, and A26 engines
VSS Parameters <ul style="list-style-type: none"> ✓ Vehicle Speed Anti-Tampering Enabled ✓ Tire Revs Per Mile ✓ Rear Axle Ratio Low ✓ Rear Axle Ration High ✓ Transmission Top Gear Ratio ✓ Transmission Tailshaft Gear Teeth ✓ Vehicle Speed Signal Mode ✓ Vehicle Speed Source Selection When Split Shaft is Active <p><i>NOTE: Access to this can be removed. Contact Noregon support for more information.</i></p>	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 <p><i>NOTE: The exact VSS Parameters available vary based on engine type.</i></p>

Auxiliary Engine Speed Control (PTO) Parameters

NOTE: The exact AESC Parameters available vary based on engine type.

General PTO:

- | | |
|------------------------------------|--------------------------------------------|
| ✓ AESC – Mode | ✓ AESC – Engine Speed Limit With VSS Fault |
| ✓ AESC – Maximum Vehicle Speed | ✓ AESC – Vehicle Speed |
| ✓ AESC – In Cab Mode Preset | ✓ AESC – Maximum Engine Load |
| ✓ AESC – In Cab Operator Interface | ✓ AESC – Minimum Engine Speed |
| ✓ AESC – Ramp Rate | ✓ AESC – Maximum Engine Load Time |
| ✓ AESC – Maximum Engine Speed | |

Enable/Disable:

- | | |
|---------------------------------------------------|-------------------------------------------------|
| ✓ AESC – Remote Pedal Enable | ✓ AESC – Disable AESC With Vehicle Speed |
| ✓ AESC – Disable With Clutch | ✓ AESC – SPDT Enable |
| ✓ AESC – Disable With Brake | ✓ AESC – Disable RP With Service Brake |
| ✓ AESC – Disable With APS | ✓ AESC – Disable RP With Parking Brake Released |
| ✓ AESC – Disable ATC With Service Brake | ✓ AESC – Disable RP With Driveline Status |
| ✓ AESC – Disable AESC With Parking Brake Released | ✓ AESC – Disable RP With In-Cab Controls |
| ✓ AESC – Disable AESC With Driveline Status | ✓ AESC – Disable RP With Vehicle Speed |
| ✓ AESC – Disable AESC With In-Cab Controls | ✓ AESC - Disable with Parking Brake |

Preset:

- | | |
|-----------------------------------------|-----------------------------------------------|
| ✓ AESC – Preset Engine Speed 1 (Set) | ✓ AESC – Preset Engine Speed 6 |
| ✓ AESC – Preset Engine Speed 2 (Resume) | ✓ AESC – Engine Speed Throttle Down Ramp Rate |
| ✓ AESC – Preset Engine Speed 3 | ✓ AESC – Bump Up/Down Step |
| ✓ AESC – Preset Engine Speed 4 | ✓ Remote AESC – Preset Engine Speed Select |
| ✓ AESC – Preset Engine Speed 5 | |

Advanced Configuration

- | | |
|--------------------------------------------------|----------------------------------------------|
| ✓ AESC – Return to Zero | ✓ Force Fan On With AESC Active |
| ✓ Interrupt DPF Regeneration When AESC Activated | ✓ Master Switch for Setting Source Addresses |
| ✓ Load Threshold for Loaded AESC Applications | |

Configuration

- | | |
|----------------------------------------------|-----------------------------------------------------------|
| ✓ Remote Pedal Mode | ✓ Cruise Control Set/Coast Switch Input Selection |
| ✓ AESC – Enable RP Overrides | ✓ Cruise Control Resume/Accelerate Switch Input Selection |
| ✓ AESC – Enable AESC Overrides | ✓ Remote Accelerator Switch Input Selection |
| ✓ AESC – Speed Controlled to Engine Load | ✓ Auxiliary Engine Shutdown Switch Input Selection |
| ✓ Auxiliary Engine Speed Control Switch Mode | ✓ Remote AESC Programmed Speed Switch Input Selection |
| ✓ Transfer Case Switch Signal Source | ✓ Remote AESC Variable Speed Switch Input Selection |
| ✓ Vehicle Speed Signal Mode | ✓ Remote Accelerator Pedal Input Selection |
| ✓ Transfer Case Input Mode Select | |
| ✓ Remote Accelerator Enable Switch | |
| ✓ Disable CAP When AESC Is Enabled | |
| ✓ Control/AESC On/Off Switch Input Selection | |

Heavy-Duty Support for Mack and 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
 - ✓ 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 and Volvo engines includes:

Bi-Directional Test or Calibration	Supported On
Aftertreatment Injector Activation for Flow Test	EPA 07

Bi-Directional Test or Calibration	Supported On
<p>Cruise Max and Min Speeds</p> <ul style="list-style-type: none"> ✓ Cruise Max Set Speed ✓ Cruise Min Set Speed ✓ Cruise Control Min Speed to Resume ✓ Road Speed Limit for Cruise Control <p><i>NOTE: Access to this can be removed. Contact Noregon support for more information.</i></p> <p><i>NOTE: This test is currently unavailable for connections using a Noregon DLA+ 3.0 family adapter.</i></p>	<p>EPA 07 to GHG17</p>
<p>Cylinder Cut Out</p>	<p>EPA 07 to GHG17</p>
<p>DEF Dosing Valve Test</p>	<p>EPA 10 to GHG17</p>
<p>DEF Pressure System Test</p>	<p>EPA 10 to GHG17</p>
<p>DPF Service Regen</p>	<p>EPA 07 to GHG17</p>
<p>DPF System Reset</p>	<p>EPA 07 to GHG17</p>
<p>EGR Function Test</p>	<p>EPA 07 to GHG17</p>
<p>Enable or Disable Cruise Control</p> <p><i>NOTE: This test is currently unavailable for connections using a Noregon DLA+ 3.0 family adapter.</i></p>	<p>EPA 07 to GHG17</p>
<p>Exit Inducement Test</p> <ul style="list-style-type: none"> ✓ EPA 10 for SPN 4094 & SPN 52466 ✓ EPA 13 to GHG17 for P208E & P103B 	<p>EPA 10 to GHG17</p> <p><i>Contact Noregon support to help verify the Temporary Exit Inducement test for EPA 13 to GHG17 engines with P-codes P207F.</i></p>
<p>Fan Activation Test</p>	<p>EPA 07 to EPA 10</p>
<p>Fuel Shut-off Valve Test</p>	<p>EPA 07 to EPA 10</p>
<p>Hydrocarbon Dosing Control Valve Test</p>	<p>EPA 10</p>
<p>Idle Shutdown Time</p> <ul style="list-style-type: none"> ✓ Idle Shutdown Time <p><i>NOTE: This test is currently unavailable for connections using a Noregon DLA+ 3.0 family adapter.</i></p>	<p>EPA 07 to GHG17</p>
<p>Learned Data Reset</p>	<p>EPA 07 to GHG17</p>
<p>NOx Conversion Monitor Test</p>	<p>EPA 13 to GHG17</p>
<p>Purge Air Valve Test</p>	<p>EPA 10</p>

Bi-Directional Test or Calibration	Supported On
<p>Road Speed Limit</p> <ul style="list-style-type: none"> ✓ Customer Road Speed Limit ✓ Road Speed Limit, Pedal Driving ✓ Road Speed Limit Mandated by Law <p><i>NOTE: Access to this can be removed. Contact Noregon support for more information.</i></p> <p><i>NOTE: This test is currently unavailable for connections using a Noregon DLA+ 3.0 family adapter.</i></p>	<p>EPA 07 to GHG17</p>
<p>SCR Regeneration</p>	<p>EPA 13 to GHG17</p>
<p>Trip Reset</p> <p><i>NOTE: This test is currently unavailable for connections using a Noregon DLA+ 3.0 family adapter.</i></p>	<p>Mack EPA 07 and newer vehicles with the DataMax parameter enabled.</p> <p>Volvo 2012 and newer with the DataMax parameter enabled.</p>
<p>VGT Electronic Actuator Installation and Calibration</p>	<p>EPA 13 to GHG17</p>
<p>VGT Function Test</p>	<p>EPA 07 to GHG17</p>
<p>VGT Monitor Test</p>	<p>EPA 13 to GHG17</p>
<p>Warm Hold Function Test</p>	<p>EPA 07 to EPA 10</p>

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:

Bi-Directional Test or Calibration	Supported On
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 MX engines.
- Supports reading proprietary data on all EPA 10 to GHG21 MX engines.
- Bi-Directional support for PACCAR engines:

Bi-Directional Test	Supported On
Activate Air Shut Off Valve	GHG17 to GHG21 all MX engines
Activate Fuel Dosing Valve	GHG17 to GHG21 all MX engines
Automated Cylinder Performance Test	EPA 10 to EPA 13 all MX engines
Check Internal DEF Pump Module Heater	EPA 13 all MX engines
Cylinder Cut-Out	GHG17 to GHG21 all MX engines
DEF Doser Pump Test	EPA 10 to GHG17 all MX engines
DEF Heater Test <ul style="list-style-type: none"> • DEF Inlet Pipe Heater • DEF Pipe Heater • DEF Pump Heater • DEF Return Pipe Heater • DEF Tank Heater Valve 	EPA 10 to GHG21 all MX engines
DPF Service Regen	EPA 10 to GHG21 all MX engines
Enable Regeneration after Aftertreatment System Repair	EPA 10 to EPA 13 all MX engines <i>Contact Noregon support to help verify this test on GHG17 MX engines.</i>
Evaluate NOx Sensors Test <ul style="list-style-type: none"> • NOx sensor after catalyst • NOx sensor before catalyst 	EPA 13 All MX Engines

Bi-Directional Test	Supported On
Install a New or Cleaned DPF	EPA 10 to EPA 13 all MX engines <i>Contact Noregon support to help verify this test on GHG17 MX engines.</i>
Prime the System with the Pump for DEF	GHG17 all MX engines
Reset the Soot Level	EPA 10 to EPA 13 all MX engines <i>Contact Noregon support to help verify this test on GHG17 MX engines.</i>
Turbo Actuator Effort Test	EPA 10 to GHG21 all 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

Heavy-Duty Support for Allison

- Supports reading proprietary faults and sensor data 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:

Bi-Directional Test or Calibration	Supported On
Reset Fast Adaptive Shifts	1000/2000 Pre-4 th Gen 1000/2000, 3000/4000 4 th Gen 1000/2000, 3000/4000 5 th Gen
Reset Filter Life Test	1000/2000, 3000/4000 4 th Gen with Prognostics Enabled 1000/2000, 3000/4000 5 th Gen with Prognostics Enabled
Reset Oil Life Test	1000/2000, 3000/4000 4 th Gen with Prognostics Enabled 1000/2000, 3000/4000 5 th Gen with Prognostics Enabled
Service Indicator Lamp Test	1000/2000, 3000/4000 4 th Gen with Prognostics Enabled 1000/2000, 3000/4000 5 th Gen with Prognostics Enabled
Transmission Fault Lamp Test	1000/2000, 3000/4000 4 th Gen 1000/2000, 3000/4000 5 th Gen

Heavy-Duty Support for Detroit Diesel

- Supports reading SAE faults and proprietary sensor data for:
 - ✓ DT12 TCM01T and TCM05T
- Bi-Directional support for Detroit Diesel transmissions:

Bi-Directional Test or Calibration	Supported On
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

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 systems, 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 ADB Continuous Wear Sensing 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:

Bi-Directional Test or Calibration	Supported On
ABS Air Bag Pressure Test	EC-60 Advanced braking systems EC-80 ESP/ESP+ braking systems

Bi-Directional Test or Calibration	Supported On
<p>ABS Configuration</p> <ul style="list-style-type: none"> • ABS • Tire Size • ATC • ESP • Broadcast <p><i>For the full list of supported parameters, see all 36 ABS Configuration Parameters</i></p>	<p>EC-60 and EC-80 braking systems</p>
<p>ABS Engine Limiting Test</p>	<p>EC-60 Premium or Advanced braking systems EC-80 ATC or ESP braking systems</p>
<p>ABS Pressure Test</p>	<p>EC-60 Advanced braking systems EC-80 ESP/ESP+ braking systems</p>
<p>ABS Self Config Test</p>	<p>EC-60 braking systems EC-80 ABS and ATC braking systems</p>
<p>ATC Configuration</p> <ul style="list-style-type: none"> ✓ ATC Control ✓ Traction Control Switch 	<p>Supports EC-80 ESP and ATC braking systems</p>
<p>Battery Voltage Test</p>	<p>EC-60 and EC-80 braking systems</p>
<p>Braking System Switches Test</p>	<p>EC-60 and EC-80 braking systems</p>
<p>Dashboard Lamp Tests</p>	<p>EC-60 and EC-80 braking systems</p>
<p>Drag Torque Test</p>	<p>EC-60 Premium or Advanced braking systems EC-80 ATC or ESP braking systems</p>
<p>ECU Reset</p>	<p>EC-60 and EC-80 braking systems</p>
<p>ESP Lamp Test</p>	<p>EC-80 ESP/ESP+ braking systems</p>
<p>Maintenance Mode</p>	<p>Intellipark systems</p>
<p>Modulator Valve (Chuff) Tests</p>	<p>EC-60 and EC-80 braking systems</p>
<p>Steering Angle Test and Calibration</p>	<p>EC-60 Advanced braking systems EC-80 ESP/ESP+ or ATC+ with EV Support braking systems</p>
<p>Wheel Speed Chart Test</p>	<p>All braking systems reporting wheel speed values</p>
<p>Wheel Speed Window Test</p>	<p>All braking systems reporting wheel speed values</p>
<p>Wiggle Test/Performance Issue Monitoring</p>	<p>EC-60 and EC-80 braking systems</p>
<p>Yaw Rate and Lateral Accel. Test and Calibration</p>	<p>EC-60 Advanced braking systems EC-80 ESP/ESP+ braking systems</p>

ABS Configuration Parameters

NOTE: The exact ABS Configuration parameters available vary based on brake ECU type.

ABS

- ✓ Configuration Additional Axle
- ✓ Engine Retarder Control
- ✓ Rail Mode

Tire Size

- ✓ Tire Size (RPM)

ATC

- ✓ ATC Control
- ✓ Traction Control Switch

ETC

- ✓ Yaw Control
- ✓ RSP
- ✓ Steering Angle Sensor Orientation
- ✓ Lateral Acceleration Sensor Orientation
- ✓ Yaw Rate Sensor Orientation
- ✓ Trailer Modulator
- ✓ Air Bag

BROADCAST

- | | |
|----------------------------------------|-----------------------------------------------------|
| ✓ High Resolution Wheel Speed | ✓ J1587: PID 168 Battery Potential (Voltage) |
| ✓ Wheel Speed Information | ✓ J1587: PID 194 Diagnostics Data Requests (Faults) |
| ✓ Electronic Brake Controller | ✓ J1587: PID 209 ABS Control Status (Trailer) |
| ✓ Cruise Control/Wheel Speed | ✓ J2497: PID 49 ABS Control Status |
| ✓ Brake Message | ✓ J2497: PID 84 Road Speed Information |
| ✓ J1939: High Resolution Wheel Speed | ✓ J2497: PID 151 ATC Control Status |
| ✓ J1939: Wheel Speed Information | ✓ J2497: PID 168 Battery Potential (Voltage) |
| ✓ J1939: Electronic Brake Control | ✓ J2497: PID 194 Diagnostics Data Requests (Faults) |
| ✓ J1939: Cruise Control/Wheel Speed | ✓ J2497: PID 209 ABS Control Status (Trailer) |
| ✓ J1587: PID 49 ABS Control Status | ✓ J2497: PID 237 VIN (Trailer) |
| ✓ J1587: PID 84 Road Speed Information | ✓ J2497: PID 245 Odometer (Trailer) |
| ✓ J1587: PID 151 ATC Control Status | |

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.
- 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
 - ✓ TABS-8™ Trailer ABS
- Bi-Directional Support for Bendix Trailers:

Bi-Directional Test or Calibration	Supported On
Wheel Speed Chart Test	All braking systems reporting wheel speed values
Wheel Speed Window Test	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™/FLR21™ Radar
 - ✓ Wingman® FLR25™
 - ✓ Blindspotter® Radar
 - ✓ Vorad VS500 Radar
 - ✓ Driver Interface Unit (DIU)
 - ✓ Steering Assist
- Supports reading and clearing Event History records on all FLR21™ ECUs.
- Bi-Directional support for Bendix Driver Assistance Systems:

Bi-Directional Test or Calibration	Supported On
<p>AutoVue 3G Configuration</p> <ul style="list-style-type: none"> • Enable Startup Chirps • Enable Radio Mute Discrete Output • Allow Driver Volume Control • LDW Warning Alert Type • LDW Minimum Operating Speed • TPMS Sampling Interval 	<p>AutoVue® 3G LDW system</p>
<p>Blindspotter Configuration</p> <ul style="list-style-type: none"> ✓ 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 	<p>Blindspotter® Radar</p>
<p>Camera Snapshot Test</p>	<p>AutoVue® FLC20™ Camera</p>
<p>Clear Stored Events and Videos</p>	<p>AutoVue® 3G LDW system SafetyDirect® Web Portal Processor (3G and 5G)</p>
<p>DIU Configuration</p> <ul style="list-style-type: none"> ✓ 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 	<p>Driver Interface Unit</p>
<p>Indicator Component Tests</p>	<p>AutoVue® 3G LDW system SafetyDirect® Web Portal Processor (5G)</p>
<p>Lamp Component Tests</p>	<p>AutoVue® 3G LDW system SafetyDirect® Web Portal Processor (5G)</p>

Bi-Directional Test or Calibration	Supported On
LDW Configuration <ul style="list-style-type: none"> ✓ 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 and Coil Polarity Test	Steering Assist
Radar Service Alignment	Wingman® FLR25™ Radar
Safety Direct Event Configuration <ul style="list-style-type: none"> • SD Event Collection • SD Event Triggers • SD Min Speeds <p><i>For the full list of supported parameters, see all 22 Safety Direct Event Configuration Parameters</i></p>	AutoVue® 3G LDW system SafetyDirect® Web Portal Processor (3G and 5G)
Safety Direct Event Selection Configuration <ul style="list-style-type: none"> • Notification Beep • Video Recording <p><i>For the full list of supported parameters, see all 18 Safety Direct Event Selection Configuration Parameters</i></p>	AutoVue® 3G LDW system SafetyDirect® Web Portal Processor (3G and 5G)
SDP3 Configuration <ul style="list-style-type: none"> ✓ Enable Startup Chirps ✓ Enable Radio Mute Discrete Output ✓ LDW Driver Disable Switch Type ✓ Alert Type ✓ Audio Sound Type ✓ TPMS Sampling Interval ✓ Video Input Camera Type 	SafetyDirect® Web Portal Processor (3G)

Bi-Directional Test or Calibration	Supported On
SDP5 Configuration <ul style="list-style-type: none"> ✓ Enable Startup Chirps ✓ Enable Radio Mute Discrete Output ✓ LDW Driver Disable Switch Type ✓ Alert Type ✓ Audio Sound Type ✓ TPMS Sampling Interval ✓ Cellular Enable ✓ DVR Options ✓ Startup Chirp Volume ✓ Video Input Camera Type 	SafetyDirect® Web Portal Processor (5G)
SDP5 System Configuration <ul style="list-style-type: none"> ✓ FLC Camera ✓ DFC Camera ✓ MPC2 Camera ✓ CTP OBC ✓ Private CAN ✓ Backup Battery ✓ Use Only CTP for Data Offloading 	SafetyDirect® Web Portal Processor (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 <ul style="list-style-type: none"> ✓ Traffic Sign Recognition ✓ TSR OverSpeed Alert ✓ TSR OverSpeed Alert and Action ✓ Source Address for the Country Select message 	AutoVue® FLC20™ Camera

Bi-Directional Test or Calibration	Supported On
<p>Wingman FLR Configuration</p> <p><i>General Settings:</i></p> <ul style="list-style-type: none"> ✓ ACC Lateral Mounting Offset ✓ Stationary Object Warning ✓ Direct TSC1 Control ✓ Highway Departure Braking ✓ ACC Type ✓ Multi Lane AEB ✓ ACC Type Engine Mismatch <p><i>DFA Alerts/Following Distance Settings:</i></p> <ul style="list-style-type: none"> ✓ Following Distance Alert Table ✓ Momentary FDA 	<p>Wingman® FLR20™/FLR21™ Radar</p> <p>Wingman® FLR25™ Radar</p> <p>Vorad VS500 Radar</p>
<p>Wingman Fusion Blindness Adjustment</p>	<p>Wingman® FLR21™ Radar</p>

Safety Direct Event Configuration Parameters

NOTE: The exact Safety Direct Event Selection Configuration parameters available vary based on ECU type.

SD Event Collection

- ✓ Safety Direct Event Reporting
- ✓ Transmit Time Before Event Trigger
- ✓ Transmit 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

Safety Direct Event Selection Configuration Parameters

NOTE: The exact Safety Direct Event Selection Configuration parameters available vary based on ECU type.

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

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 ID’s.
- Supports reading Event History Information and saving to local file.
- Bi-Directional support for Bendix TPMS:

Bi-Directional Test or Calibration	Supported On
<p>TPMS Ambient Sensor Configuration</p> <p><i>Global Settings:</i></p> <ul style="list-style-type: none"> ✓ Altitude Compensation <p><i>Ambient Application Configuration:</i></p> <ul style="list-style-type: none"> ✓ Ambient Sensor ID Code ✓ Ambient Condition Enable ✓ Ambient Pressure From Sensor ✓ Ambient Pressure Enable ✓ Ambient Pressure Source ✓ Ambient Sensor Fault Enable 	<p>All SmarTire™ TPMS solutions</p>
<p>TPMS Backup and Restore</p> <p><i>For compatibility rules see TPMS Backup and Restore Compatibility</i></p>	<p>All SmarTire™ TPMS solutions</p>
<p>TPMS Configuration</p>	<p>All SmarTire™ TPMS solutions</p>
<p>TPMS Lamp Display Configuration</p>	<p>SmarTire™ Standard and NextGen TPMS Solutions</p>
<p>TPMS Parameters</p> <ul style="list-style-type: none"> • Global Settings • Sensor Fault Time Programming • Programming Restrictions • Dual Tire Imbalance • Low Power Mode • Vehicle and Trailer Settings • Antenna Configuration <p><i>For the full list of supported parameters, see all 36 TPMS Parameters</i></p>	<p>All SmarTire™ TPMS solutions</p>
<p>TPMS Scratchpad</p>	<p>SmarTire™ NextGen TPMS solutions</p>

Bi-Directional Test or Calibration	Supported On
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 Parameters

NOTE: The TPMS Parameters available vary based on TPMS type and variant.

Global Settings

- | | |
|------------------------------|--------------------------------|
| ✓ First Alert Level | ✓ High Temperature |
| ✓ Temperature Compensate FAL | ✓ Auto Learn Setting |
| ✓ Second Alert Level | ✓ Tire Condition Pressure Mode |
| ✓ Temperature Compensate SAL | |

Sensor Fault Time Programming

- | | |
|---------------------------------------|----------------------------------------|
| ✓ Sensor Fault Time Rolling Mode | ✓ Custom Ambient Sensor Fault Time |
| ✓ Custom Stationary Sensor Fault Time | ✓ Sensor Fault Time for Ambient Sensor |
| ✓ Sensor Fault Time Stationary Mode | |

Programming Restrictions

- | | |
|-------------------------|------------------------------|
| ✓ Gauge Units Menu | ✓ Gauge Learn Menu |
| ✓ Gauge Parameters Menu | ✓ Gauge Profile Menu |
| ✓ Gauge Axle Menu | ✓ Gauge Password Menu |
| ✓ Gauge Altitude 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

-
- ✓ Forward Collision Warning

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 | ✓ Exclusive Trailer |
| ✓ Vehicle ID | ✓ Exclusive Trailer ID |
| ✓ Trailer Learn | |

Antenna Configuration

- ✓ Internal Antenna

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 only update other iTPMS 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)
 - ✓ EAC (Standalone)
- Supports reading and clearing proprietary fault codes for the following air treatment system components:
 - ✓ eAPU2
 - ✓ iAPU
 - ✓ ESM2
 - ✓ EVM1
 - ✓ eIAG
- Bi-Directional support for Bendix Air Treatment Systems:

Bi-Directional Test or Calibration	Supported On
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 and clearing 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:

Bi-Directional Test or Calibration	Supported On
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

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.:

Bi-Directional Test or Calibration	Supported On
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:

Bi-Directional Test or Calibration	Supported On
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:

Bi-Directional Test or Calibration	Supported On
Radar Alignment	Radar Frontend 2
Radar Parameters <ul style="list-style-type: none"> ✓ 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

- Supports 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 Prevest

- Displays all standard and proprietary fault codes for all Prevest 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.

JPRO® Off-Highway Features

- Off-Highway supports listed Off-Highway vehicle connections
- Supports SAE J1939 messages.
- Ability to save and playback log files for Off-Highway specific connections.

NOTE: Playing back log files from Off-Highway connections is not supported in JPRO® versions prior to 2023 v1.

NOTE: *Appropriate off-highway cables are required to connect to vehicles in JPRO®.* Refer to the [Cable Connection Guide](#) for assistance with cable selection and finding connector locations.

Off-Highway Support for Bobcat

- Supports proprietary Faults and sensor data for the listed equipment types, models, and engines:
 - Mini-Excavators
 - ✓ E45 with DL02 engine
 - ✓ E50 with DL02 engine
 - ✓ E55 with DL02 engine
 - Track Loaders
 - ✓ T450 with DL02 engine
 - ✓ T550 with DL02 engine
 - ✓ T590 with DL02 engine
 - ✓ T630 with DL03 engine
 - ✓ T650 with DL02 engine
 - ✓ T740 with DL03 engine
 - ✓ T770 with DL03 engine
 - ✓ T870 with DL03 engine
 - Skid Steer Loaders
 - ✓ S530 with DL02 engine
 - ✓ S630 with DL02 engine
 - ✓ S650 with DL02 engine
 - ✓ S740 with DL03 engine
 - ✓ S770 with DL03 engine

NOTE: Bobcat 6-pin Off-Highway cable is required

- Bi-Directional support for Bobcat engines:

Bi-Directional Test or Calibration	Supported On
Wiggle Test/Performance Issue Monitoring	DL02, and DL03 engines on applicable equipment

Off-Highway Support for Caterpillar

- Supports reading SAE faults and sensor data.
- Supports reading proprietary diagnostic fault codes, event codes, and data for the following Caterpillar Off-Highway vehicles:
 - Backhoe Loaders
 - ✓ Model 416 with C3.6 engine
 - ✓ Model 420 with C3.6 engine
 - ✓ Model 420 XE with C3.6 engine
 - Compact Track Loaders
 - ✓ 420 XE with C3.6 engine
 - Dozers
 - ✓ D4 with C4.4 engine
 - ✓ D5 with C7.1 engine
 - ✓ D6 with C9.3 B engine
 - ✓ D6 XE with C9.3B engine
 - ✓ D8 with C15 engine
 - Excavators
 - ✓ 315 with C3.6 engine
 - ✓ 315GC with C3.6 engine
 - ✓ 320 GC with C4.4 engine
 - ✓ 320 T4f/EU with C4.4 engine
 - ✓ 323 T4f/EU with C4.4 engine
 - ✓ 336 GC with C7.1 engine
 - ✓ 349 with C13 engine
 - Wheel Loaders
 - ✓ 926M with C7.1 engine
 - ✓ 930M with C7.1 engine
 - ✓ 930M Ag Handler with C7.1 engine
 - ✓ 930M Waste Handler with C7.1 engine
 - ✓ 938M with C7.1 engine
 - ✓ 950 GC with C7.1 engine
 - ✓ 950M with C7.1 engine
 - ✓ 966M with C9.3 engine
 - ✓ 966 with C9.3B engine
 - ✓ 966 GC with C9.3B engine
 - ✓ 966 XE with C9.3B engine
 - ✓ 966M XE with C9.3B engine
 - ✓ 980 with C13 engine

NOTE: CAT 9 or 14 pin Off-Highway cables are required.

- Bi-Directional support for Caterpillar engines:

Bi-Directional Test or Calibration	Supported On
Cylinder Cut-Out Test	C4.4, C6.6, C7.1, C9.3, C9.3B, and C13 ACERT T4i & T4 engines
Wiggle Test/Performance Issue Monitoring	C4.4, C6.6, C7.1, C9.3, C9.3B, and C13 ACERT T4i & T4 engines on applicable equipment

Off-Highway support for John Deere

- Supports SAE Faults and sensor data for the listed equipment types and models:
 - Backhoes
 - ✓ 310L with John Deere 6068 diesel engine
 - ✓ 310L EP with Yanmar 4TNV diesel engine
 - ✓ 310SL with John Deere 6068 diesel engine
 - ✓ 310SL HL with John Deere 6068 diesel engine
 - ✓ 410L with John Deere 6068 diesel engine
 - Dozers
 - ✓ 450K with John Deere 4045 diesel engine
 - ✓ 450K LGP with John Deere 4045 diesel engine
 - ✓ 650K with John Deere 4045 diesel engine
 - ✓ 650K LGP with John Deere 4045 diesel engine
 - ✓ 700L XLT / 700L LGP with John Deere 6068 engine
 - ✓ 750L with John Deere 6068 diesel engine
 - ✓ 750L XLT with John Deere 6068 diesel engine
 - ✓ 750L LGP with John Deere 6068 diesel engine
 - ✓ 850L with John Deere 6090 diesel engine
 - ✓ 850L WLT with John Deere 6090 diesel engine
 - ✓ 850L LGP with John Deere 6090 diesel engine
 - Compact Loaders
 - ✓ 317G with Yanmar 4TNV engine
 - ✓ 325G with Yanmar 4TNV engine
 - ✓ 331G with Yanmar 4TNV engine
 - ✓ 333G with Yanmar 4TNV engine
 - Excavator
 - ✓ 35G with Yanmar 3TNV engine
 - ✓ 30G with Yanmar 3TNV engine
 - ✓ 50G with Yanmar 4TNV engine
 - ✓ 75G with Yanmar 4TNV engine
 - ✓ 60G with Yanmar 4TNV engine
 - ✓ 85G with Yanmar 4TNV engine
 - ✓ 130G with John Deere 4.5L engine
 - ✓ 160G LC with John Deere 4.5 L engine
 - ✓ 200G with John Deere 4.5 L engine
 - ✓ 210G LC with John Deere 6.8L 6068HT106 engine
 - ✓ 250G LC with John Deere 6.8 L engine

- ✓ 350 P-Tier with John Deere 9.0 L engine
- ✓ 470 P-Tier with John Deere 6135 engine
- Skid Steer Loaders
 - ✓ 317G with Yanmar 4TNV engine
 - ✓ 318G with Yanmar 4TNV engine
 - ✓ 320G with Yanmar 4TNV engine
 - ✓ 330G with Yanmar 4TNV engine
- Wheel Loaders
 - ✓ 524P with John Deere 6068 engine
 - ✓ 544 P-Tier with John Deere 6068 engine
 - ✓ 624 P-Tier with John Deere 6068 engine
 - ✓ 644P with John Deere 6068 engine
 - ✓ 844 P-Tier with John Deere 6135 engine
- Bi-Directional support for John Deere engines:

Bi-Directional Test or Calibration	Supported On
Wiggle Test/Performance Issue Monitoring	3TNV, 4045, 4TNV, 6068, 6090, 6135 engines on applicable equipment

Off-Highway support for Komatsu

- Supports proprietary Faults and sensor data for the listed equipment types, models, and engines:
 - Excavators
 - ✓ PC138USLC-11 with SAA4D95LE-7 engine
 - ✓ PC200LC-8 with SAA6D107E-1 engine
 - ✓ PC210LC-10 with SAA4D95LE-7 engine
 - ✓ PC210LC-11 with SAA6D107E-3 engine
 - ✓ PC290LC-11 with SAA6D107E-3 engine
 - ✓ PC360LC-10 with SAA6D114E-5 engine
 - ✓ PC360LC-11 with SAA6D114E-6 engine
 - ✓ PC490LC-11 with SAA6D125E-7 engine
 - ✓ PC88MR-10 with SAA4D95LE-6 engine
 - ✓ PC88MR-11 with SAA4D95LE-6 engine
 - Wheel Loaders
 - ✓ WA270-7 with SAA6D107E-2 engine
 - ✓ WA320-7 with SAA6D107E-2 engine
 - ✓ WA380-7 with SAA6D107E-2 engine
 - ✓ WA270-8 with SAA6D107E-3 engine
 - ✓ WA320-8 with SAA6D107E-3 engine
 - ✓ WA380-8 with SAA6D107E-3 engine

NOTE: Komatsu 12-pin Off-Highway cable is required

- Bi-Directional support for Komatsu equipment:

Bi-Directional Test or Calibration	Supported On
Aftertreatment Injector Flow Test	Komatsu equipment with with SAA6D107E-3, SAA6D114E-6, SAA6D125E-7, and SAA4D95LE-7 engines
Aftertreatment Injector Leak Test	Komatsu equipment with with SAA6D107E-3, SAA6D114E-6, SAA6D125E-7, and SAA4D95LE-7 engines
Aftertreatment Injector Shutoff Valve Test	Komatsu equipment with with SAA6D107E-3, SAA6D114E-6, SAA6D125E-7, and SAA4D95LE-7 engines
Cylinder Cut Out	Komatsu equipment with with SAA6D107E-3, SAA6D114E-6, SAA6D125E-7, and SAA4D95LE-7 engines
DEF Doser Pump Override Test	Komatsu equipment with with SAA6D107E-3, SAA6D114E-6, SAA6D125E-7, and SAA4D95LE-7 engines
DPF Service Regen	Komatsu equipment with with SAA6D107E-3, SAA6D114E-6, SAA6D125E-7, and SAA4D95LE-7 engines
Fuel Injector Performance Test	Komatsu equipment with with SAA6D107E-3, SAA6D114E-6, SAA6D125E-7, and SAA4D95LE-7 engines
Fuel Leakage Test	Komatsu equipment with with SAA6D107E-3, SAA6D114E-6, SAA6D125E-7, and SAA4D95LE-7 engines
SCR Performance and System Test	Komatsu equipment with with SAA6D107E-3, SAA6D114E-6, SAA6D125E-7, and SAA4D95LE-7 engines
Wiggle Test/Performance Issue Monitoring	Komatsu equipment with with SAA6D107E-3, SAA6D114E-6, SAA6D125E-7, and SAA4D95LE-7 engines
VGT Hysteresis Test	Komatsu equipment with with SAA6D107E-3, SAA6D114E-6, SAA6D125E-7, and SAA4D95LE-7 engines

Off-Highway Support for Kubota

- Supports proprietary Faults and sensor data for the listed equipment types, models, and engines:
 - Kubota Compact Track Loader
 - ✓ SVL75-2 with V3307-CR-TE4 engine
 - ✓ SVL95-2s with V3800-TIEF4 engine
 - ✓ SVL97-2 with V3800-TIEF4 engine
 - Kubota Skid Steer Loader
 - ✓ SSV75 with V3307-CR-TE4 engine
 - Kubota Power Utility Excavator
 - ✓ KX080-4 with V3307-CR-TE4 engine
 - Sunward America Tracked Skid Steep Loader
 - ✓ SWTL4538 with V3307-CR-TE4 engine
 - Takeuchi Compact Track Loader
 - ✓ TL8R2 with V3307-CR-TE4 engine

✓ TL12V2 with V3800-TIEF4 engine

• **Bi-Directional support for Kubota engines:**

Bi-Directional Test or Calibration	Supported On
Cylinder Cut Off Test	V3307-CR-TE4, and V3800-TIEF4 engines on applicable equipment
DPF Regen	V3307-CR-TE4, and V3800-TIEF4 engines on applicable equipment
Wiggle Test/Performance Issue Monitoring	V3307-CR-TE4, and V3800-TIEF4 engines on applicable equipment

JPRO® Medium-Duty Features

- 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 to 2022
 - ✓ F-650 & F-750 – 2004 to 2021
 - ✓ Econoline E-series – 2004 to 2021
 - ✓ Ford Motorhome/Incomplete Chassis (F-53/F-59) – 2015 to 2021
 - ✓ Transit Connect – 2004 to 2018
 - ✓ Transit vehicles – 2004 to 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:

Bi-Directional Test	Supported On
DPF Regeneration	2008 – 2021 6.4L diesel engines 2011 – 2022 6.7L diesel engines 2015 – 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 – 2010 6.4L diesel engines 2011 – 2022 6.7L diesel engines 6.8L V-10 gasoline Engines
Relative Compression Test	All supported engines 2008 – 2022 (except for 2009 6.4L Diesel)
Set EGR Position	2011 – 2021 6.7L diesel engines
Set EGR Throttle	2011 – 2021 6.7L diesel engines
Transmission Adaptive Learn Tests <ul style="list-style-type: none"> ✓ 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: <ul style="list-style-type: none"> • 6.8L gasoline engines • 6.8L CNG engines • 7.3L gasoline engines

- Bi-Directional support for Ford Transmissions:

Bi-Directional Test	Supported On
KOEO On Demand Self-Test	2004 – 2021 transmissions
KOER On Demand Self-Test	

- Bi-Directional support for Ford Brakes:

Bi-Directional Test	Supported On
G – Sensor Calibration Test	2004 – 2021 brakes
On Demand Self-Test	
Sensor Initialization	

- Bi-Directional support for Ford 2004 – 2021 auxiliary components (when component is available):

Bi-Directional Test	Supported On
On-Demand Self-Test	<ul style="list-style-type: none"> • 4X4 Control Module (4x4m) • Accessory Protocol Interface Module (APIM) • Audio Control Module (ACM) • (Audio) Digital Signal Processing Module (DSP) • Body Control Module (BdyCM) • 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)

Bi-Directional Test	Supported On
	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Generic Electronic Module (GEM) • Smart Junction Box (SJB)
Wiper Washer Rear Test	<ul style="list-style-type: none"> • 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.

- 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:

Bi-Directional Test	Supported On
A/C Relay	2010 to 2021 GMC and Chevy Full Sized Trucks 1500, 2500, and 3500 with 6.0L Gas engine
CMP Actuator Solenoid	

Bi-Directional Test	Supported On
Crankshaft Position Variation Learn	2010 to 2021 GMC Express and Chevy Savana with 6.0L Gas engine 2011 GMC Canyon and Chevy Colorado with 6.0L Gas engine
Cylinder Cut Out	2002 to 2022 all diesel and gasoline engines (except GM vehicles with CAT engines)
DPF Catalyst Reset	2010 to 2022 vehicles with a Duramax 6.6L Diesel engine
DPF Pressure Sensor Reset	2016 GMC Canyon and Chevy Colorado with a 2.8L Diesel Engine
DPF Service Regen	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 engine 2010 to 2017 GMC Express and Chevy Savana with 6.0L Gas engine 2011 GMC Canyon and Chevy Colorado with 6.0L Gas engine
Engine Speed Control	
EVAP Purge/Seal Solenoid	
EVAP Purge Solenoid	
EVAP Vent Solenoid	
Fuel Closed Loop Status	
Fuel Injector Balance	
Fuel Pump Relay	
Fuel Trim Enable	
GEN L-Terminal	
HO2S Heater Tests <ul style="list-style-type: none"> • Bank 1 Sensor 1 • Bank 1 Sensor 2 • Bank 2 Sensor 1 • Bank 2 Sensor 2 	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 with 6.0L Gas engine
HO2S Heater Learn	2011 GMC Canyon and Chevy Colorado with 6.0L Gas engine
Idle Spark	
Misfire Graphic	
NOx Sensor Reset: <ul style="list-style-type: none"> • Sensor 1 • Sensor 2 	2010 to 2018 vehicles with a Duramax 6.6L Diesel engine 2016 GMC Canyon and Chevy Colorado with a 2.8L Diesel Engine 2017 and 2018 GMC Savana or Canyon and Chevy Express or Colorado with a 2.8L Diesel engine

Bi-Directional Test	Supported On
Reductant Heater Tests: <ul style="list-style-type: none"> • Heater 1 • Heater 2 • Heater 3 	2010 to 2018 vehicles with a Duramax 6.6L Diesel engine 2016 GMC Canyon and Chevy Colorado with a 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	
Reductant Tank Reset	
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 with 6.0L Gas engine 2011 GMC Canyon and Chevy Colorado with 6.0L Gas engine
RVS Disable History Reset	
Spark Retard	
Starter Relay	
Throttle Position	
Throttle Position Sweep	

- Bi-Directional support for GM Transmissions:

Bi-Directional Test	Supported On
High Side Driver 1	Transmissions in a 2010 to 2012 GMC Express and Chevy Savana with a 6.0L Gas engine
Line PC Solenoid	
PC Solenoid 2	
PC Solenoid 3	
PC Solenoid 4	
PC Solenoid 5	
Reset Transmission Adapts	
Reset Transmission Oil Life	
Shift Transmission	
Shift Solenoid 1	
Shift Solenoid 2	
TCC Control Solenoid	

- Bi-Directional support for GM Brake Control Module:

Bi-Directional Test	Supported On
ABS Motor	Brakes in a 2010 to 2012 GMC Express and Chevy Savana with a 6.0L Gas engine
Automated Brake Bleed	
LF Inlet Valve Solenoid	
LF Outlet Valve Solenoid	
Rear Inlet Valve Solenoid	
Rear Outlet Valve Solenoid	
RF Inlet Valve Solenoid	
RF Outlet Valve Solenoid	

- Bi-Directional support for GM Body Controllers:

Bi-Directional Test	Supported On
Accy/RAP Relay	Body Controllers in a 2010 to 2012 GMC Express and Chevy Savana with a 6.0L Gas engine
Backup Lamps	
Courtesy Lamp	
DRL	
Fog Lamps	
High Beams	
Horn	
Incandescent Dimming	
LED Dimming	
LF Turn Signal	
LR Turn Signal	
Low Beams	
Parking Lamps	
RF Turn Signal	
RR Turn Signal -	
Run/Crank Relay	
Shift Lock Solenoid	
Wiper High Speed Relay	
Wiper Relay	
Wiper Washer Motor	

Medium-Duty Support for Hino

- Supports reading faults and data from all non-hybrid components 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:

Bi-Directional Test or Calibration	Supported On
Cruise Speed Customization <ul style="list-style-type: none"> ✓ Maximum Set Cruise Speed 	All Hino engines in 2011-2019 vehicles
Cylinder Cut Out	All Hino engines in 2011-2019 vehicles
DPF Manual Service Regen	All Hino engines in 2011-2019 vehicles
DPF Soot Load Customization <ul style="list-style-type: none"> ✓ DPF Soot Load 	All Hino engines in 2011-2019 vehicles
Idle Shutdown Customization <ul style="list-style-type: none"> ✓ Idle Shutdown Setting Time 	All Hino engines in 2011-2019 vehicles
SCR Related Memory Reset	All Hino engines in 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:
 - ✓ N-Series faults and data (engine, DEF and transmission only)
 - ✓ F-Series faults (engine and DEF 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:

Bi-Directional Test	Supported On
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 reading faults and data for 2007 to 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:

Bi-Directional Test	Supported On
Cylinder Cut Out	EPA 07 Diesel Engine
Compression Test	EPA 07 Diesel Engine
Manual DPF Regen	EPA 07 Diesel Engine
Injector Quantity Adjustment	EPA 07 Diesel Engine
Initialize Rail Pressure	EPA 07 Diesel Engine

- Bi-Directional support for Sprinter instrument clusters:

Bi-Directional Test	Supported On
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’s tire pressure monitor ECU:

Bi-Directional Test	Supported On
Tire Pressure Monitor Test	2007 – 2015 TPM

General Features

- 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 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: Fault Guidance is only available when JPRO® Professional Diagnostic Software with NextStep® Repair 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® Repair 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: 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® Repair 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

- 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).

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.

Hardware / Software Configuration

The following operating systems are supported:

- ✓ Windows 10 (both 32 and 64-bit versions)
- ✓ Windows 11

Note: Spanish operating systems are supported.

Notes

- 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 Noregon DLA+ family adapters are supported:
 - ✓ DLA+ 3.0
 - ✓ DLA+ 3.0 Wireless
 - ✓ DLA+ 2.0
 - ✓ DLA+ 2.0 Wireless
 - ✓ Trailer Diagnostic Adapter
 - ✓ DLA+
 - ✓ DLA+ Wireless
 - ✓ DLA+ PLC

- 3) Noregon DLA+ family adapters are required to connect to the Ford, GM, Isuzu or Sprinter Medium Duty vehicles. Please ensure you have the latest driver and firmware loaded.
 - ✓ DLA+ 3.0
 - ✓ DLA+ 3.0 Wireless
 - ✓ DLA+ 2.0
 - ✓ DLA+ 2.0 Wireless
 - ✓ DLA+
 - ✓ DLA+ Wireless

- 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 adapter
 - To 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 jprosolutions@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+ 2.0, DLA+, 3.0 Wireless, 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+ 2.0, DLA+, DLA+ 3.0 Wireless, DLA+ 2.0 Wireless or DLA+ Wireless adapter