



Engine Controller

Caterpillar, Cummins, Detroit, DuraMax, International, Mercedes, Powerstroke



DPF Aftertreatment

Caterpillar, Cummins, Detroit, DuraMax, International, Mercedes, Powerstroke



Transmission Controller

Allison, Eaton, Ford, GM, ZF



ABS or Brakes

Bendix, Ford, GM, Haldex, Wabash, Wabco, ZF



Instrument Cluster

Bluebird, Caterpillar, Chevrolet, Dodge, Ford, Freightliner, GM, GMC, IC, International, Thomas Built



Body Controller

Bluebird, Caterpillar, Chevrolet, Dodge, Ford, Freightliner, GM, GMC, IC, International, Thomas Built

FCAR USA
Truck Diagnostics and Beyond
Tel: 844-322-7872

F7SB Bus TabPro

*A very special
& unique design
diagnostic scanner
to meet your Bus
daily service,
maintenance
and repair
needs*



More info:
www.fcarusa.com/products/F7SB

The comprehensive and affordable scanner for your business

www.fcarusa.com

F7SB Bus TabPro Tablet

The F7SB is a quick and powerful all-in-one wireless Android diagnostic tablet ideal for School bus diagnostic professionals, fleet maintenance staff, and road service professionals. All software is preloaded with proprietary code descriptions, live data, calibration and bidirectional functionality. The F7SB School Bus is customized scanner specifically for school bus facility or fleet professional.

Diagnostic functions:

- Scan vehicles and ECU
- Read/clear fault codes
- Display/analyze all sensors live data stream with graphing
- Actuation tests

Advanced functions:

- Cylinder cutout
- Injector coding
- DPF regen & reset
- DEF reset
- Bidirectional parameters functions and reset
- Oil change reset
- Maintenance light reset
- Calibrations and adjustments

Communicates with:

- ✓ CAN
- ✓ J1587
- ✓ J1708
- ✓ ISO9141
- ✓ J1939
- ✓ OBD II
- ✓ ISO15765

↪ **Industrial 10.5" HD Android touch screen**

↪ **Industrial quality WIFI/Bluetooth**

↪ **Remote support via TeamViewer**

↪ **Wireless diagnostics**

↪ **User friendly interface**

↪ **Data recording and playback**

↪ **Diagnostic and vehicle data report to PDF and Excel**

↪ **Google Cloud printing**

↪ **Built-in internet browser and Email capability**

F7SB Bus TabPro | Make & Model - Coverage

F7SB School Bus Scanner covers most yellow school bus in United States

| BODY & CHASSIS | ENGINES | TRANSMISSIONS | ABS |
|--|---|---|---|
| <ul style="list-style-type: none"> • Bluebird • Freightliner • Ford • GM • International • Thomas | <ul style="list-style-type: none"> • Caterpillar • Cummins • Detroit Diesel • Duramax • PowerStroke • International • MercedesBenz | <ul style="list-style-type: none"> • Allison • Chevrolet • Eaton • Ford • GM • ZF | <ul style="list-style-type: none"> • Bendix • Ford • GM • Haldex • Wabash • WABCO |
| CUMMINS | CATERPILLAR | DETROIT & MERCEDES | |
| <ul style="list-style-type: none"> • Cylinder cut out • DPF service forced regen • Aftertreatment reset • Fuel injector reset • Fuel injector calibration • VGT hysteresis test • VGT calibration and installation • Fuel leakage test • DEF doser pump override • Idle shutdown timer reset • Speed limits and governor settings • PTO settings • Transmission setup • Another 100 more functions available see our Cummins details page | <ul style="list-style-type: none"> • Maintenance intervals setup • Injector coding • Cylinder cutoff • Vehicle Speed Parameters setup • Cruise Control Parameters setup • Idle Parameters(Old PTO) • Dedicated PTO Parameters setup • Engine/Gear Parameters setup • Timer Parameters setup • Smart Idle Parameters setup • Engine Monitoring Parameters • Trip Parameters setup • System Settings • Throttle knob engine speed *More programming functions avail- | <ul style="list-style-type: none"> • Cylinder cut out (auto and manual) • DPF forced regen • SCR System - output component test • SCR ADS self check • Idle Shutdown enable/disable & time set • DPF ash accumulator reset • Road speed limits • Cruise control speed limits • PTO setup • Injector coding • Fan diagnostic • FIS low pressure leak test • Progressive shift • Inputs and outputs | |
| INTERNATIONAL | ALLISON | BENDIX | |
| <ul style="list-style-type: none"> • Cylinder cut out • DPF service forced regen • Transmission Setup • Engine Warn Protection System • Road Speed limiting/Cruise Control • PTO setup • Speedo,Tire,Axle Setup • Progressive Shift • Idle Shutdown Timer • Engine Fan • Momentary Road Speed Limiting • Service Interval • O2 Sensor Calibration • Injector Quantity Adjustment • More testing, calibration, reset function see our International functions page | <ul style="list-style-type: none"> • Read/Erase Fault Codes • Read Sensor Live Data • Solenoid Test • Reset Adaptive Shift Parameters • Reset Fast Adaptive • Reset Throttle Calibration • Lamp Tests • Reset Auto-Detect • Reset Auto Detect Retarder • Reset SEM Auto-Select • Reset Prognostics Information • Reset Oil Life Monitor • Reset Transmission Monitor • Input parameters modify • Output parameters modify | <ul style="list-style-type: none"> • Read ECU Information • Read Fault Codes • Erase Fault Codes • Read Sensor Live Data • Actuation Test • Controller Configuration • Rest ABS Controller • Dyno Mode | |
| ZF | WABASH | WABCO | |
| <ul style="list-style-type: none"> • Read ECU Information • Read Fault Codes • Erase Fault Codes • Sensors Live Data • Actuation Tests and Calibrations | <ul style="list-style-type: none"> • Read ECU Information • Read Fault Codes • Erase Fault Codes • Sensors Live Data • Actuation Tests and Calibrations | <ul style="list-style-type: none"> • Tractor ABS Diagnosis • Hydraulic ABS Diagnosis • Read ECU Information • Read Fault Codes • Erase Fault Codes • Live Data • Actuation Tests and Calibrations | |

F7SB School Bus | GM and Ford OEM Level Coverage

F7SB School Bus also has bidirectional functions for type A Bus or multifunction school bus or van who is made or labeled by Ford, GM, Chevrolet or other white bus or van.

Ford

- Supports 1992 - 2018 Ford Models: F-series, Econoline E-Series, Transit Connect, Transit Vehicles
- Supports 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
- Bi-Directional Support for Ford Engines:
 - Cylinder Cutout for 2008 to 2018 6.4L Diesel engines and EPA 2011 to 2018 6.7L Diesel engines
 - DPF Regeneration for 2008 to 2018 6.4L Diesel engines and EPA 2011 to 2018 6.7L Diesel engines
 - KAM (Keep Alive Memory) Reset for all supported engines
 - KOEO On Demand Self-Test for all supported engines
 - KOER On Demand Self-Test for all supported engines
 - KOER Glow Plug Monitor Self-Test for all supported diesel engines
 - KOER Injector Buzz Test for all supported engines
 - KOER On Demand Self-Test for all supported engines
 - KOER Switch Test for 2004 - 2018 6.0L diesel engines
- Bi-Directional Support for Ford Transmissions:
 - KOEO On Demand Self-Test for 2004 to 2018 Transmissions
 - KOER On Demand Self-Test for 2004 to 2018 Transmissions
- Bi-Directional Support for Ford Brakes:
 - G-Sensor Calibration Test for 2004 to 2018 Brakes
 - On Demand Self-Test for 2004 to 2018 Brakes
 - Sensor Initialization for 2004 to 2018 Brakes
- Bi-Directional Support for Ford Auxiliary Components
 - Wiper Control and Washer Test

GM/GMC/Chevrolet

- Supports the following vehicle models for 1992 - 2018:
 - GMC & Chevy full sized trucks: 1500, 2500 & 3500; GMC Express & Chevy Savana; All GM Medium Duty Vehicles
- Supports the medium duty J1850VPW and GMLAN messages
- Gives users the ability to read and clear faults, read freeze frames, read sensor data and display emission test results
- Bi-Directional Support for GM Engines-Duramax:

| | | | | | |
|-------------------------------|--------------------------------------|----------------------------------|---------------------------------------|-------------------------------|---------------------------|
| • A/C Relay | • CMP Acuator | • CMP Acuator Solenoid | • Crankshaft Position Variation Learn | • Cylinder Cut Out | • DPF Catalyst Reset |
| • DPF Pressure Sensor Reset | • DPF Service Regen | • Engine Controls Ignition Relay | • Engine Speed Control Information | • Fuel Closed Loop Status | • Fuel Injector Balance |
| • EVAP Purge/Seal Solenoid | • EVAP Purge Solenoid | • EVAP Vent Solenoid | • Fuel Trim Reset | • Gen L-Terminal | |
| • Fuel Pump Relay | • Fuel Trim Enable | • HO2S Bank 1 Sensor 1 Heater | • HO2S Bank 2 Sensor 1 Heater | • HO2S Bank 2 Sensor 2 Heater | |
| • HO2S Bank 1 Sensor 1 Heater | • HO2S Bank 1 Sensor 2 Heater | • Idle Spark | • NOx Sensor 1 & NOx Sensor 2 Reset | • Reductant Tank Reset | • Oil Life Reset |
| • HO2S Heater Learn | • Reductant Heater 1, 2, and 3 Tests | • Spark Retard | • Starter Relay | • Throttle Position | • Throttle Position Sweep |
| • RVS Disable History Reset | | | | | |
- Bi-Directional Support for GM Transmissions:

| | | |
|-------------------------------|----------------------|------------------------------|
| • High Side Driver 1 | • Line PC Solenoid | • Reset Transmissions Adapts |
| • Reset Transmission Oil Life | • Shift Transmission | • TCC Control Solenoid |
- Bi-Directional Support for GM Brake Control Module:

| | | |
|-------------|-------------------------|-------------------------------|
| • ABS Motor | • Automated Brake Bleed | • Inlet/Outlet Valve Solenoid |
|-------------|-------------------------|-------------------------------|
- Bi-Directional Support for GM Body Controllers:

| | | | | |
|----------------------|------------------------|-----------------------|--------------------------|---------------|
| • Accy/RAP Relay | • Backup Lamps | • Courtesy Lamp | • Fog Lamps | • High Beams |
| • Horn | • Incandescent Dimming | • LED Dimming | • Turn Signal | • Low Beams |
| • Parking Lamps | • Run/Crank Relay | • Shift Lock Solenoid | • Wiper High Speed Relay | • Wiper Relay |
| • Wiper Washer Motor | | | | |

F7SB School Bus | Other Coverage (Global)

F7SB also has generic function (Read/Remove fault codes, read live sensor data) for any other ECU/ECM by J1708, J1939, and OBD II by using Diesel OBD or OBD II program in the scanner.

| BODY & CHASSIS | | ENGINES | | TRANSMISSIONS | | ABS | |
|-----------------|----------------|------------------|--------------|---------------|--------------|----------|------------|
| • Bluebird | • Mitsubishi | • CAT | • John Deere | • Allison | • Mack | • Bendix | • Sprinter |
| • Ford | Fuso | • Cummins | • Mack | • Detroit | • Mitsubishi | • Ford | • Wabash |
| • Freightliner | • Nissan UD | • Detroit Diesel | • Mercedes | • Eaton | • Fuso | • GM | • WABCO |
| • GM | • Peterbilt | • Ford | • Mitsubishi | • Ford | • Sprinter | • Haldex | |
| • Hino | • Sprinter | • GM | Fuso | • GM | • Volvo | | |
| • International | • Sterling | • Hino | • Nissan UD | • Hino | • ZF | | |
| • Isuzu | • Thomas Built | • International | • Perkins | • Isuzu | | | |
| • Kenworth | • Volvo | • Isuzu | • Sprinter | | | | |
| • Mack | • Western Star | | • Volvo | | | | |

INCLUDED OFF-ROAD EQUIPMENT COVERAGE

| CUMMINS POWERED | BOBCAT | DETROIT POWERED |
|---|--|---|
| <ul style="list-style-type: none"> • Read and clear fault codes • Read freeze frames • Scan and display sensor live data (chart mode, or text mode) • Reset, Calibration, Bidirectional Functions | <ul style="list-style-type: none"> • Read and clear fault codes • Read freeze frames • Scan and display sensor live data (chart mode, or text mode) (*might need additional adaptor) | <ul style="list-style-type: none"> • Read and clear fault codes • Read freeze frames • Scan and display sensor live data (chart mode, or text mode) • Reset, Calibration, Bidirectional Functions |
| CAT POWERED | PERKINS POWERED | VOLVO POWERED |
| <ul style="list-style-type: none"> • Read and clear fault codes • Read freeze frames • Scan and display sensor live data (chart mode) • Reset, calibration and bidirectional functions (might need additional adaptors) | <ul style="list-style-type: none"> • Read and clear fault codes • Read freeze frames • Scan and display sensor live data (chart mode, or text mode) | <ul style="list-style-type: none"> • Read and clear fault codes • Read freeze frames • Scan and display sensor live data (chart mode, or text mode) (*might need additional adaptor) |
| JCB | NEW HOLLAND | JOHN DEERE |
| <ul style="list-style-type: none"> • Read and clear fault codes • Read freeze frames • Scan and display sensor live data (chart mode, or text mode) | <ul style="list-style-type: none"> • Read and clear fault codes • Read freeze frames • Scan and display sensor live data (chart mode, or text mode) | <ul style="list-style-type: none"> • Read and clear fault codes • Read freeze frames • Scan and display sensor live data (chart mode, or text mode) |

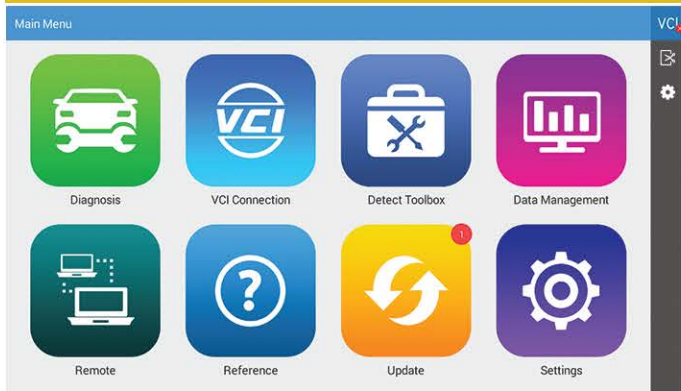
Passenger vehicles (from 1992 to recent) OBD II only

| America | | Asia | | Europe | |
|-------------|-----------|------------|--------------|-----------------|------------|
| • Buick | • GMC | • Acura | • Mazda | • Abarth | • Opel |
| • Cadillac | • Lincoln | • Daewood | • Mitsubishi | • Alfa | • Peugeot |
| • Chevrolet | • Jaguar | • Honda | • Nissan | • Audi | • Porsche |
| • Chrysler | • Jeep | • Hyundai | • Scion | • Bentley | • Renault |
| • Dodge | • Pontiac | • Infiniti | • Subaru | • BMW | • SAAB |
| • Ford | • Saturn | • Isuzu | • Suzuki | • Fiat | • Seat |
| • GM | | • Kia | • Toyota | • Jaguar | • Skoda |
| | | • Lexus | | • Land Rover | • Smart |
| | | | | • Maybach | • Sprinter |
| | | | | • Mercedes Benz | • Volvo |
| | | | | • Mini | • VW |

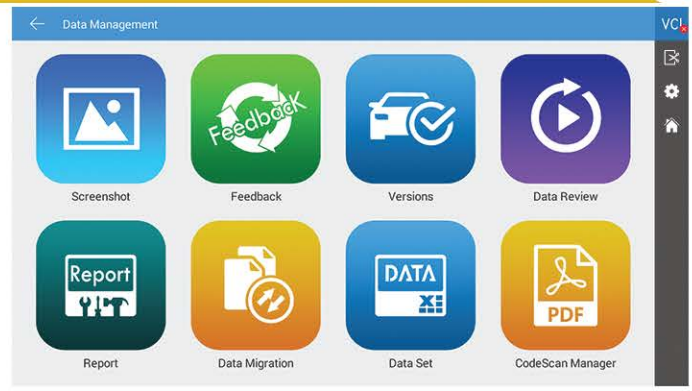
OBD II (All Emission Related)

- Read and clear fault codes
- Read freeze frames
- Scan and display sensor live data (chart mode, or text mode)

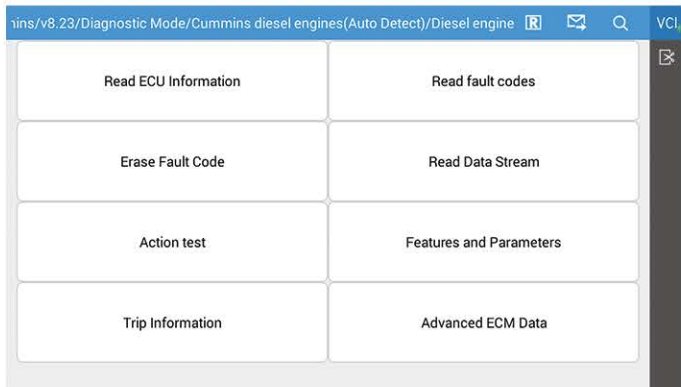
F7SB Bus TabPro Screenshots



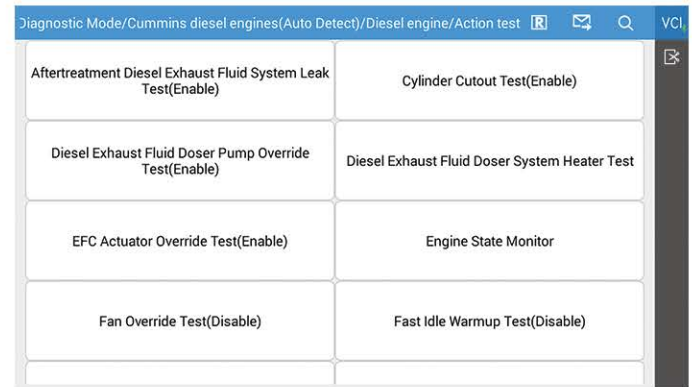
Main screen



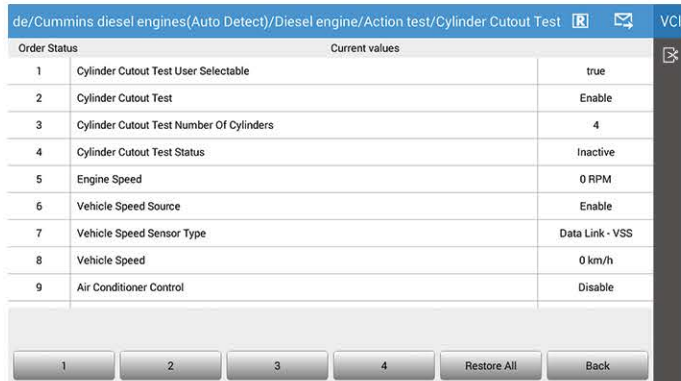
Data management



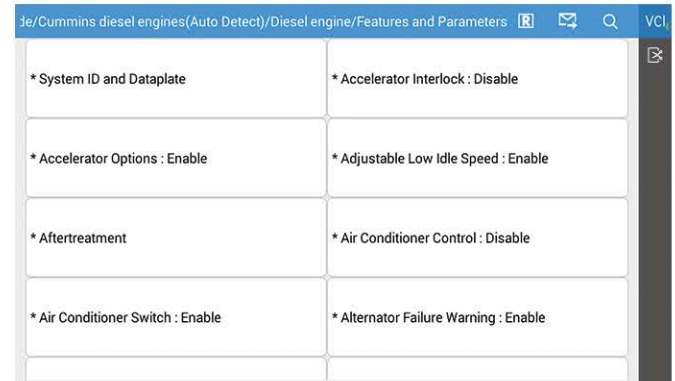
Cummins menu



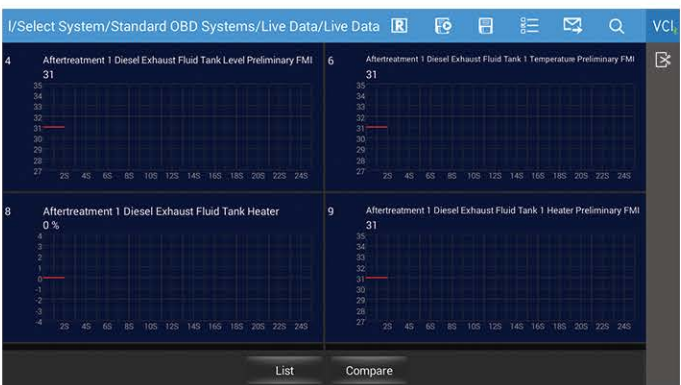
Cummins tests



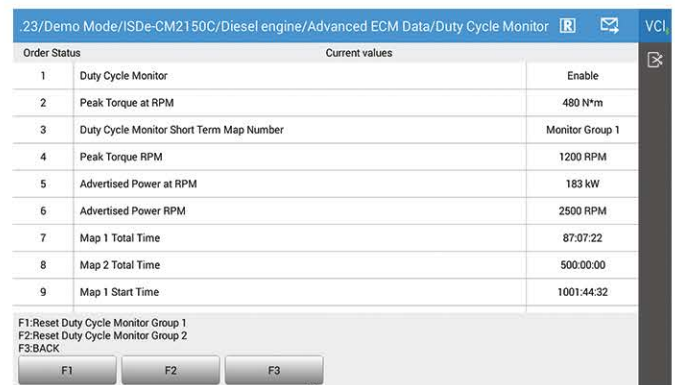
Cylinder cutoff



Bi-Directional function



Live sensor data graphing



Duty cycle monitor

F7S-B Bus TabPro Diagnostic Scanner Kit



Retail package kit

- ✓ 10.5" tablet with Android
- ✓ VCI interface
- Adaptors:
 - ✓ Self test adaptor
 - ✓ OBD II-16 adaptor
 - ✓ Diesel 6 adaptor
 - ✓ Diesel 9 (type 1 and type 2)
- Cables:
 - ✓ Main cable (DB15) 3 feet
 - ✓ USB data cable

Accessories:

- ✓ AC power charger
- ✓ Manual/Warranty card
- ✓ One-year hardware manufacturer's limited warranty
- ✓ Two-years software updates

Product details

| | |
|--------------------|---------------|
| Shipping weight | 30 pounds |
| Shipping dimension | 24"x18"x8" |
| Shipping region | Within U.S.A. |
| SKU | USS-019-F7B |
| UPC | 649906329602 |
| Part no | FCAR-019-F7B |

F7SB diagnostic report sample (PDF)

Diagnostic Report (Cummins)

Date:06/29/2018 08:50

Vehicle and User Info:

| | | | |
|-----------|--------------|--------------------|-------------------|
| Brand: | Freightliner | Engine: | CMMNS |
| Model: | | VIN: | 5VCACLKH2BH212339 |
| Year: | 2011 | License plate No.: | |
| Customer: | | Tel: | 1443380088 |

Vehicle Components:

| ID | NAME | VALUE |
|----|--|--------------------------------------|
| 1 | (J1939)0 Engine #1 | CMMNS*4F e05D038 *00000000*8441 G1 * |
| 2 | (J1939)3 Transmission #1 | ALLSN*T310 *** |
| 3 | (J1939)41 Retarder, Exhaust, Engine #1 | |

Vehicle Key Data:

| ID | NAME | VALUE |
|----|---|--------------|
| 1 | Total Vehicle Distance | 78,935 miles |
| 2 | Total Vehicle Hours | 3,894 h |
| 3 | Engine Average Fuel Economy | 0.00 MPG |
| 4 | Battery Potential | 12.10 V |
| 5 | Engine Speed | 1,878 rpm |
| 6 | Total Idle Hours | 0 h |
| 7 | Total Idle Fuel Used | 0 gal |
| 8 | Trip Distance | 0 mile |
| 9 | Total PTO Hours | 0 h |
| 10 | Engine Total Hours | 1 h |
| 11 | Engine Total Fuel Used | 0 gal |
| 12 | Aftertreatment 1 Diesel Particulate Filter Intake Temperature | 32 degF |
| 13 | Aftertreatment 1 Diesel Particulate Filter Outlet Temperature | 32 degF |
| 14 | Total Vehicle Distance (High Resolution) | 0 ft |
| 15 | Road Speed Limit Status | Not Active |
| 16 | Cruise Control High Set Limit Speed | 0 MPH |
| 17 | Cruise Control Low Set Limit Speed | 30 MPH |
| 18 | Engine Derate Switch | NA |
| 19 | Engine Rated Power | 154.2 BHP |
| 20 | Engine Rated Speed | 0 rpm |

Vehicle Issues

Current Fault Codes:

| STATUS | COMPONENT | DESCRIPTION | FMI | COUNT |
|--------|--------------------|--|-----|-------|
| Active | (J1939)0 Engine #1 | SPN 3597 ECU Power Output Supply Voltage #1 FMI=2 - Data Erratic, Intermittent Or Incorrect 1 | 2 | 1 |
| Active | (J1939)0 Engine #1 | SPN 91 Accelerator Pedal Position 1 FMI=4 - Voltage Below Normal, Or Shorted To Low Source 1 | 4 | 1 |
| Active | (J1939)0 Engine #1 | SPN 2623 Accelerator Pedal #1 Channel 2 FMI=4 - Voltage Below Normal, Or Shorted To Low Source 1 | 4 | 1 |
| Active | (J1939)0 Engine #1 | SPN 625 Proprietary Network #1 FMI=9 - Abnormal Update Rate 1 | 9 | |

| | | | | |
|--------|--|---|---|---|
| Active | (J1939)0 Engine #1 | SPN 157 Engine Injector Metering Rail 1 Pressure FMI=3 - Voltage Above Normal, Or Shorted To High Source 1 | 3 | 1 |
| Active | (J1939)0 Engine #1 | SPN 4360 Aftertreatment 1 SCR Intake Temperature FMI=3 - Voltage Above Normal, Or Shorted To High Source 1 | 3 | 1 |
| Active | (J1939)0 Engine #1 | SPN 102 Engine Intake Manifold #1 Pressure FMI=4 - Voltage Below Normal, Or Shorted To Low Source 1 | 4 | 1 |
| Active | (J1939)0 Engine #1 | SPN 4334 Aftertreatment 1 Diesel Exhaust Fluid Doser Absolute Pressure FMI=4 - Voltage Below Normal, Or Shorted To Low Source 1 | 4 | 1 |
| Active | (J1939)0 Engine #1 | SPN 1761 Aftertreatment 1 Diesel Exhaust Fluid Tank Level FMI=3 - Voltage Above Normal, Or Shorted To High Source 1 | 3 | 1 |
| Active | (J1939)0 Engine #1 | SPN 1172 Engine Turbocharger 1 Compressor Intake Temperature FMI=3 - Voltage Above Normal, Or Shorted To High Source 1 | 3 | 1 |
| Active | (J1939)0 Engine #1 | SPN 105 Engine Intake Manifold 1 Temperature FMI=3 - Voltage Above Normal, Or Shorted To High Source 1 | 3 | 1 |
| Active | (J1939)0 Engine #1 | SPN 108 Barometric Pressure FMI=4 - Voltage Below Normal, Or Shorted To Low Source 1 | 4 | 1 |
| Active | (J1939)0 Engine #1 | SPN 97 Water In Fuel Indicator 1 FMI=3 - Voltage Above Normal, Or Shorted To High Source 1 | 3 | 1 |
| Active | (J1939)0 Engine #1 | SPN 110 Engine Coolant Temperature FMI=3 - Voltage Above Normal, Or Shorted To High Source 1 | 3 | 1 |
| Active | (J1939)0 Engine #1 | SPN 3361 Aftertreatment 1 Diesel Exhaust Fluid Dosing Unit FMI=2 - Data Erratic, Intermittent Or Incorrect 1 | 2 | 1 |
| Active | (J1939)0 Engine #1 | SPN 3226 Aftertreatment 1 Outlet NOx FMI=9 - Abnormal Update Rate 1 | 9 | 1 |
| Active | (J1939)0 Engine #1 | SPN 639 J1939 Network #1 Primary Vehicle Network FMI=9 - Abnormal Update Rate 1 | 9 | 1 |
| Active | (J1939)0 Engine #1 | SPN 3361 Aftertreatment 1 Diesel Exhaust Fluid Dosing Unit FMI=4 - Voltage Below Normal, Or Shorted To Low Source 1 | 4 | 1 |
| | (J1939)3 Transmission #1 | No fault codes present | | |
| | (J1939)41 Retarder, Exhaust, Engine #1 | No fault codes present | | |

History Fault Codes:

| STATUS | COMPONENT | DESCRIPTION | FMI | COUNT |
|----------|--|--|-----|-------|
| Inactive | (J1939)0 Engine #1 | SPN 729 Engine Intake Air Heater Driver #1 FMI=3 - Voltage Above Normal, Or Shorted To High Source 1 | 3 | 1 |
| Inactive | (J1939)0 Engine #1 | SPN 191 Transmission Output Shaft Speed FMI=9 - Abnormal Update Rate 2 | 9 | 2 |
| Inactive | (J1939)0 Engine #1 | SPN 84 Wheel-Based Vehicle Speed FMI=9 - Abnormal Update Rate 2 | 9 | 2 |
| | (J1939)3 Transmission #1 | No fault codes present | | |
| | (J1939)41 Retarder, Exhaust, Engine #1 | No fault codes present | | |

FCAR featured products

- F506 HD code reader pro
- F3SN Truck Pro
- F3SN Truck Pro School Bus Edition
- F3SG Master Pro
- F7SN Truck TabPro
- F7SG Master TabPro



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