



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, Ford, Freightliner, GM, GMC, IC, International, Thomas Built



Body Controller

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

F7SB

Bus TabPro

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



Distributed by:

FCAR Authorized Distributor

The comprehensive and affordable scanner for your business

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 a 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
<h3>CUMMINS</h3> <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 	<h3>CATERPILLAR</h3> <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- 	<h3>DETROIT & MERCEDES</h3> <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 	
<h3>INTERNATIONAL</h3> <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 	<h3>ALLISON</h3> <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 	<h3>BENDIX</h3> <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 	
<h3>ZF</h3> <ul style="list-style-type: none"> • Read ECU Information • Read Fault Codes • Erase Fault Codes • Sensors Live Data • Actuation Tests and Calibrations 	<h3>WABASH</h3> <ul style="list-style-type: none"> • Read ECU Information • Read Fault Codes • Erase Fault Codes • Sensors Live Data • Actuation Tests and Calibrations 	<h3>WABCO</h3> <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, 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
- Supports Pre/Post scan report in PDF or print to regular printer via Cloud Print
- 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

GM/GMC/Chevrolet

- Supports the following vehicle models for 1992 - 2018:
GMC & Chevy full sized: 1500, 2500 & 3500; GMC Express & Chevy Savana; All GM Medium Duty 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
- Supports Pre/Post scan report in PDF or print to regular printer via Cloud Print
- 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
 - EVAP Purge/Seal Solenoid
 - EVAP Purge Solenoid
 - EVAP Vent Solenoid
 - Fuel Closed Loop Status
 - Fuel Injector Balance
 - Fuel Pump Relay
 - Fuel Trim Enable
 - Fuel Trim Reset
 - Gen L-Terminal
 - HO2S Bank 1 Sensor 1 Heater
 - HO2S Bank 1 Sensor 2 Heater
 - HO2S Bank 2 Sensor 1 Heater
 - HO2S Bank 2 Sensor 2 Heater
 - HO2S Heater Learn
 - Idle Spark
 - NOx Sensor 1 & NOx Sensor 2 Reset
 - Reductant Heater 1, 2, and 3 Tests
 - Reductant System Leak Test
 - Reductant Tank Reset
 - Oil Life Reset
 - RVS Disable History Reset
 - Spark Retard
 - Starter Relay
 - Throttle Position
 - Throttle Position Sweep
- 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

F7SB School Bus | Other Coverage (Global)

The F7SB also has generic functions (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 Fuso	• Ford	• Sprinter	• Haldex	
• Hino	• Sprinter	• GM	• Nissan UD	• GM	• Volvo		
• International	• Sterling	• Hino	• Perkins	• Hino	• ZF		
• Isuzu	• Thomas Built	• International	• Sprinter	• Isuzu			
• Kenworth	• Volvo	• Isuzu	• Volvo				
• Mack	• Western Star						

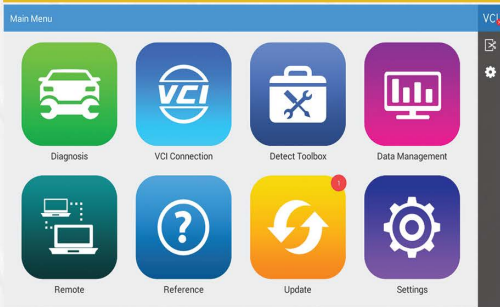
INCLUDED OFF-ROAD EQUIPMENT COVERAGE

CUMMINS POWERED	BOBCAT (only generic)	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(only generic)	VOLVO POWERED (only generic)
<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 (only generic)	NEW HOLLAND (only generic)	JOHN DEERE(only generic)
<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)

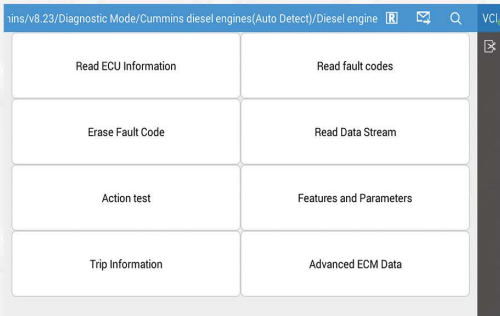
Passenger vehicles (from 1992 to recent) OBD II only

America	Asia	Europe
<ul style="list-style-type: none"> • Buick • Cadillac • Chevrolet • Chrysler • Dodge • Ford • GM 	<ul style="list-style-type: none"> • Acura • Daewood • Honda • Hyundai • Infiniti • Isuzu • Kia • Lexus 	<ul style="list-style-type: none"> • Abarth • Alfa • Audi • Bentley • BMW • Fiat • Jaguar • Land Rover • Maybach • Mercedes Benz • Mini
<ul style="list-style-type: none"> • GMC • Lincoln • Jaguar • Jeep • Pontiac • Saturn 	<ul style="list-style-type: none"> • Mazda • Mitshubishi • Nissan • Scion • Subaru • Suzuki • Toyota 	<ul style="list-style-type: none"> • Opel • Peugeot • Porsche • Renault • SAAB • Seat • Skoda • Smart • Sprinter • Volvo • VW
OBD II (All Emission Related)		
<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) 		

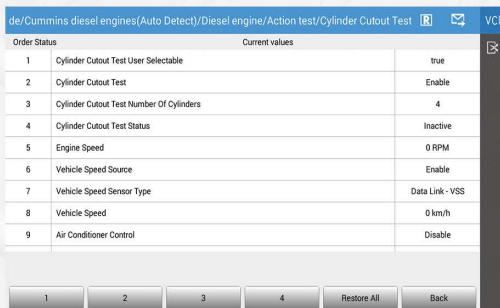
F7SB Bus TabPro Screenshots



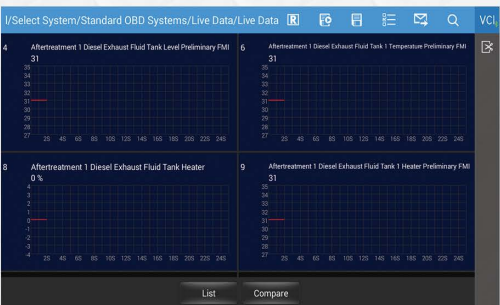
Main screen



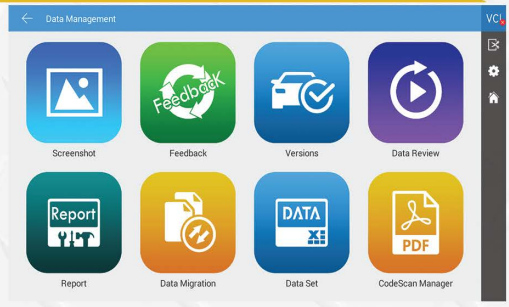
Cummins menu



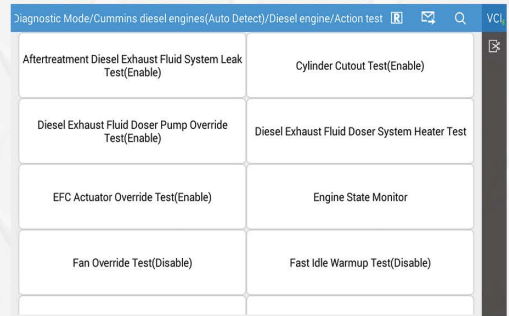
Cylinder cutoff



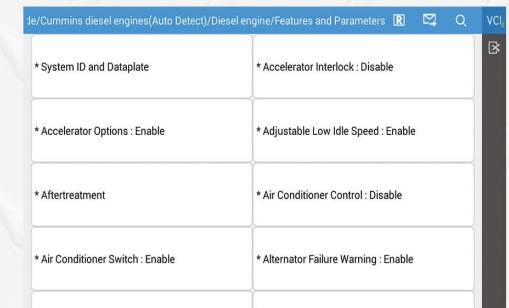
Live sensor data graphing



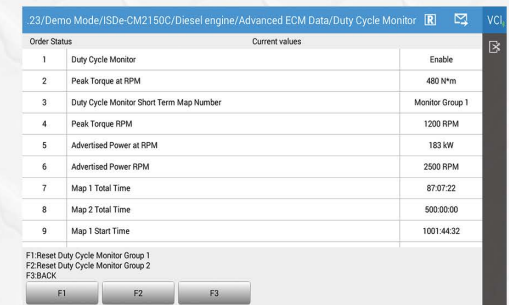
Data management



Cummins tests



Bi-Directional function



Duty cycle monitor

F7S-B Bus TabPro Diagnostic Scanner Kit



Hardware specification		
Overview		
Tablet	Type	Industrial Tablet
	Dimension	320*210*30mm
	Weight	Device unit: 1600g, 10000mAh battery: 250g
LCD	Device Color	Black+Silver (Front and rear Panel Silver, four corners Black)
	Screen Size	10.1" 16:10
	Resolution	1280*800 IPS
TP	Brightness	300 NIT
	Touch Panel	10 points Capacitive, TP thickness: 1.1mm
Camera	Front	Front/NA with indicator light
	Rear	Rear: 5.0MP
Speaker	Built-in	Embedded 8Ω/0.8W speaker x2
Mic	Type	Sensitivity: -42db, output resistance: 2.8kΩ
	Capacity	Lithium-ion polymer battery
Battery	Capacity	3.7V/10000mAh
	Endurance	Strs(default 50% volum, default200m, play 1080P HD video)
System Hardware Configuration		
CPU	Type	freescale Semiconductor (Quad-core),Mx6Q
	Speed	1.20Hz
	GPU	Type 2D/3D Graphic
RAM	DDR3L	2GB
ROM	Emmc	32GB
G_sensor	Built-in	Gravity acceleration sensor
Network Connections		
WIFI	WIFI Module	WIFI 802.11(a/b/g/n) Frequency 2.4G+5.8G dual band WIFI,
Bluetooth	Built-in	BT4.0 (BLE) class1 transmission distance: 10m
Interface Configuration		
TF slot	Extensive External Memory	Support SDHC/SDXC x1 Max: 128G
USB Interface	Extend external memory and data transfer	USB 2.0*1 (Host) for windows Android OTG x1
Earphone Jack	Audio Output	3.5mm standard earphone jack x1
DC Jack	Power	DC 12V 3A, 5.5mm Power connector x1
HDMI	Video Output	HDMI
Standard Accessories		
USB Cable	USB Cable	USB to micro SP Lx1.2M 4core aluminum foil shield cable
Power Adaptor	Standard	AC100V ~ 240V ~ 50Hz/50Hz output DC 12V/3A USA Standard CE approval
Software Configuration		
OS	OS version	Android 4.3
Product Certificate		
Certificates	FCC	FCC ID:2A-IDH-IDA8S7S
	CE	PASS
	ROHS	PASS
Reliability	UN38.3	PASS
	Reliability	
Reliability	Operate Temperature	-10 °C to 50 °C 14 °F to 122 °F
	Store Temperature	-30 °C to 70 °C / -4 °F to 140 °F
	Humidity	Humidity: 95% Non-Condensing



SD HDMI 2 USB RJ45 Power



Retail package kit

✓ 10" Android tablet	Cables
✓ VCI interface	✓ Main cable (DB15) 3 feet
Adaptors:	✓ USB data cable
✓ Self test	Accessories
✓ OBD II-16	✓ AC power charger
✓ Diesel 6	✓ Manual/Warranty card
✓ Diesel 9 (J1939 type 1 and type 2)	1Y Manufacturer warranty
	2Y Software update

Products details

Shipping weight	25 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:	14433800088

Vehicle Components:

ID	NAME	VALUE
1	(I1939) Engine #1	CMMNS*4F e05D038 *00000000*8441 G1 *
2	(I1939)3 Transmission #1	ALLSN*T310 ***
3	(I1939)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	(I1939) Engine #1	SPN 3597 ECU Power Output Supply Voltage #1 FMI=2 - Data Erratic, Intermittent Or Incorrect 1	2	1
Active	(I1939) Engine #1	SPN 91 Accelerator Pedal Position 1 FMI=4 - Voltage Below Normal, Or Shorted To Low Source 1	4	1
Active	(I1939) Engine #1	SPN 2623 Accelerator Pedal #1 Channel 2 FMI=4 - Voltage Below Normal, Or Shorted To Low Source 1	4	1
Active	(I1939) Engine #1	SPN 625 Proprietary Network #1 FMI=9 - Abnormal Update Rate 1	9	

Active	(I1939) Engine #1	SPN 157 Engine Injector Metering Rail 1 Pressure FMI=3 - Voltage Above Normal, Or Shorted To High Source 1	3	1
Active	(I1939) Engine #1	SPN 4360 Aftertreatment 1 SCR Intake Temperature FMI=3 - Voltage Above Normal, Or Shorted To High Source 1	3	1
Active	(I1939) Engine #1	SPN 102 Engine Intake Manifold #1 Pressure FMI=4 - Voltage Below Normal, Or Shorted To Low Source 1	4	1
Active	(I1939) 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	(I1939) 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	(I1939) Engine #1	SPN 1172 Engine Turbocharger 1 Compressor Intake Temperature FMI=3 - Voltage Above Normal, Or Shorted To High Source 1	3	1
Active	(I1939) Engine #1	SPN 105 Engine Intake Manifold 1 Temperature FMI=3 - Voltage Above Normal, Or Shorted To High Source 1	3	1
Active	(I1939) Engine #1	SPN 108 Barometric Pressure FMI=4 - Voltage Below Normal, Or Shorted To Low Source 1	4	1
Active	(I1939) Engine #1	SPN 97 Water In Fuel Indicator 1 FMI=3 - Voltage Above Normal, Or Shorted To High Source 1	3	1
Active	(I1939) Engine #1	SPN 110 Engine Coolant Temperature FMI=3 - Voltage Above Normal, Or Shorted To High Source 1	3	1
Active	(I1939) Engine #1	SPN 3361 Aftertreatment 1 Diesel Exhaust Fluid Dosing Unit FMI=2 - Data Erratic, Intermittent Or Incorrect 1	2	1
Active	(I1939) Engine #1	SPN 3226 Aftertreatment 1 Outlet NOx FMI=9 - Abnormal Update Rate 1	9	1
Active	(I1939) Engine #1	SPN 639 I1939 Network #1 Primary Vehicle Network FMI=9 - Abnormal Update Rate 1	9	1
Active	(I1939) Engine #1	SPN 3361 Aftertreatment 1 Diesel Exhaust Fluid Dosing Unit FMI=4 - Voltage Below Normal, Or Shorted To Low Source 1	4	1
	(I1939)3 Transmission #1	No fault codes present		
	(I1939)41 Retarder, Exhaust, Engine #1	No fault codes present		

History Fault Codes:

STATUS	COMPONENT	DESCRIPTION	FMI	COUNT
Inactive	(I1939) Engine #1	SPN 729 Engine Intake Air Heater Driver #1 FMI=3 - Voltage Above Normal, Or Shorted To High Source 1	3	1
Inactive	(I1939) Engine #1	SPN 191 Transmission Output Shaft Speed FMI=9 - Abnormal Update Rate 2	9	2
Inactive	(I1939) Engine #1	SPN 84 Wheel-Based Vehicle Speed FMI=9 - Abnormal Update Rate 2	9	2
	(I1939)3 Transmission #1	No fault codes present		
	(I1939)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



FCAR USA
Truck Diagnostics and Beyond

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