



Engine Controller



DPF Aftertreatment



Transmission Controller



Anti-lock Brakes



Instrument Cluster



Body Controller



Truck Diagnostics and Beyond
Tel: 844-322-7872

F3S-G

MasterPro



**Bidirectional
Truck and Auto
Handheld Professional
Diagnostic Scan Tool Kit**

www.fcarusa.com

F3SG MasterPro Handheld

The F3SG is a fast and user-friendly scan tool that is powerful with a compact handheld design, featuring all-in-one coverage from automotive to HD trucks and off-road equipment. All software is preloaded with diagnostic code descriptions, sensor live data, calibration and bidirectional functionality.

Diagnostic functions:

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

Advanced functions:

- Cylinder cutout
- Injector coding
- DPF regen & reset
- Bidirectional parameters reset and adjustment
- Oil change reset
- Maintenance light reset

Communicates with:

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

✓ **Compact handheld design**

✓ **Fast response. Boots and scan entire vehicle in seconds**

✓ **All-in-one coverage and more bidirectional functionalities**

✓ **Low maintenance**

✓ **Plug-N-Play**

✓ **8-inch touch screen**

✓ **Updates via SD card**

✓ **Built-in thermal printer**

✓ **User-friendly interface**

F3S-G MasterPro | Make & Model - Coverage

F3S-G MasterPro covers heavy & medium-duty OEMs (Class 1 – 8)

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

F3S-G MasterPro covers automotives OEMs

Passenger vehicles (from 1992 to recent)

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

INCLUDED OFF-ROAD EQUIPMENT COVERAGE

CUMMINS POWERED	CAT POWERED	DETROIT POWERED
<ul style="list-style-type: none"> • Read and clear fault codes • Read freeze frames • Scan and display sensor live data • Actuation tests and calibrations (Cylinder cut off, DPF and reset functions) 	<ul style="list-style-type: none"> • Read and clear fault codes • Read freeze frames • Scan and display sensor live data • Actuation tests and calibrations (Cylinder cut off, DPF and reset functions) 	<ul style="list-style-type: none"> • Read and clear fault codes • Read freeze frames • Scan and display sensor live data • Actuation tests and calibrations (Cylinder cut off, DPF and reset functions)
HINO POWERED	PERKINS POWERED	VOLVO POWERED
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ISUZU POWERED	HITACHI POWERED	NEW HOLLAND OR JOHN DEERE
<ul style="list-style-type: none"> • Read and clear fault codes • Read freeze frames • Scan and display sensor live data • Actuation tests and calibrations 	<ul style="list-style-type: none"> • Read and clear fault codes • Read freeze frames • Scan and display sensor live data 	<ul style="list-style-type: none"> • Read and clear fault codes • Read freeze frames • Scan and display sensor live data • Actuation tests and calibrations (coming soon)

F3S-G MasterPro | Bidirectional - Parameter Reset, Tests, and Calibration Functionalities

INCLUDED MEDIUM-DUTY/HEAVY-DUTY TESTS

CUMMINS

- Cylinder cut out
- DPF service forced regen
- Trip reset
- 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
- Cruise speed limits and governor setting
- PTO settings
- Transmission setup
- Another 100 more functions available see our Cummins details page

DETROIT & MERCEDES

- 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
- More functions on Detroit details page

HINO

- DPR status check
 - DPR state reset
 - DPR Forced Regeneration
 - DPR Differential Pressure Check
 - Intake Air Volume Check
 - EGR Check
 - Fuel Leak Check
 - Check Turbocharger
 - Total idle time
 - Total PTO operations time
 - Total engine operations time
 - Trip travel distance
 - Trip engine operations time
 - Trip idle time
- More functions available, see Hino page

INTERNATIONAL

- 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

CATERPILLAR

- 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 available

MITSUBISHI FUSO

- DPF Regeneration(Manual)
 - Cylinder Cut Out
 - ECU RESET
 - Reset Engine oil
 - Reset Fuel injector
 - Reset Pressure limiting valve in rail
 - Reset Rail pressure sensor
 - Reset Oxygen sensor
 - Reset Hot film mass air flow sensor
 - Reset Turbocharger
 - Reset BlueTech
 - Reset DPF
 - Reset Engine oil
 - Reset service interval
- More functions available, see Hino page

MACK & VOLVO

- Injector Cut Out
 - Cylinder Compression, Test
 - Learned Data Reset
 - Oil Pressure Test(During Cranking)
 - Cylinder Balancing, Test
 - Draining Water in the Fuel, Test
 - Engine Brake Function, Test
 - DPF Service Forced Regen
 - Parameter Programming
 - Engine speed/governor/torque limit reset
 - Idle shutdown timer reset
 - Injection control
- More testing, calibration, reset and programming functions available, see Volvo page for more.

ISUZU

- DPD Forced Regeneration
 - DPD Regeneration Data Reset
 - MAF calibration data service mode
 - Clear learned supply pump data
 - Reset fuel pump calibration
 - Idle speed
 - Read all injector coding
 - Write injector data
 - Compression testing
 - Idle RPM comparison
 - High voltage test
 - Accelerated testing
 - Cylinder fuel cut test
- *100 more reset, programming, testing functions available.

JOHN DEERE

- Scan engine
 - Read/clear fault codes
 - Scan and read all live data from sensors
 - DPR Forced Regen (coming soon)
 - Cylinder cut off (coming soon)
- More calibration, reset, and programming coming soon

ALLISON

- 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

BENDIX

- Read ECU Information
- Read Fault Codes
- Erase Fault Codes
- Read Sensor Live Data
- Actuation Test
- Controller Configuration
- Rest ABS Controller
- Dyno Mode

WABCO

- Tractor ABS Diagnosis
- Hydraulic ABS Diagnosis
- Read ECU Information
- Read Fault Codes
- Erase Fault Codes
- Live Data
- Actuation Tests and Calibrations

ZF

- Read ECU Information
- Read Fault Codes
- Erase Fault Codes
- Sensors Live Data
- Actuation Tests and Calibrations

WABASH

- Read ECU Information
- Read Fault Codes
- Erase Fault Codes
- Sensors Live Data
- Actuation Tests and Calibrations

INCLUDED MEDIUM-DUTY FUNCTIONALITY & TESTS

FORD TRUCK

- Read and clear fault codes
- Read freeze frames
- Read sensor real time live data
- Display emission test results
- Enables support for OBD-II emissions fault data
- Cylinder cut out
- DPF forced regen or reset

GM TRUCK

- Cylinder cut out
- Read and clear fault codes
- Read freeze frames
- Read sensor real time live data
- Display emission test results
- Enables support for OBD-II emissions fault and data
- DPF service regen
- Power balancing

SPRINTER

- Cylinder cut out
- DPF forced regen or reset
- Read and clear fault codes
- Read sensor real time live data
- Display emission test results
- Compression test
- Injector quantity adjustment
- Mass air flow sensor initialization
- Initialize rail pressure
- Instrument cluster tests: Oil change reset, display dimmer test routine, gauge sweep test, LCD display test routine, speaker test routine.

CHRYSLER PICKUP

- Read and clear fault codes
- Read freeze frames
- Read sensor real time live data
- Display emission test results
- Enables support for OBD-II emissions fault data
- Cylinder cut out
- DPF forced regen or reset

NISSAN UD

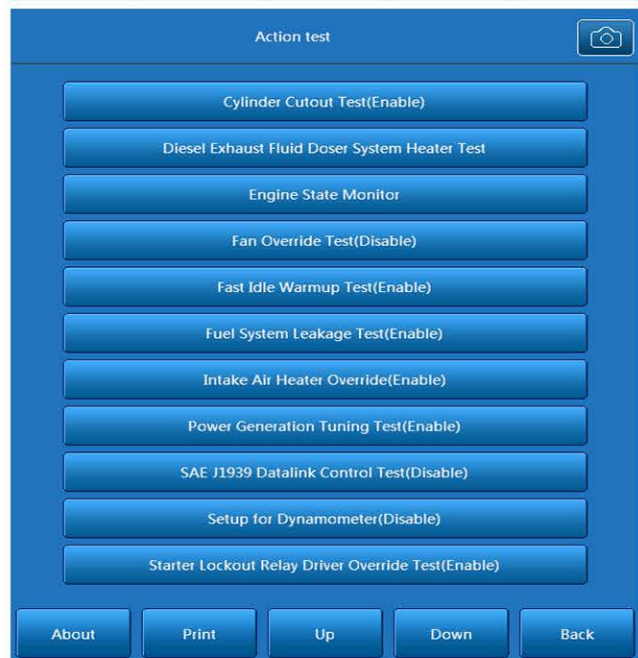
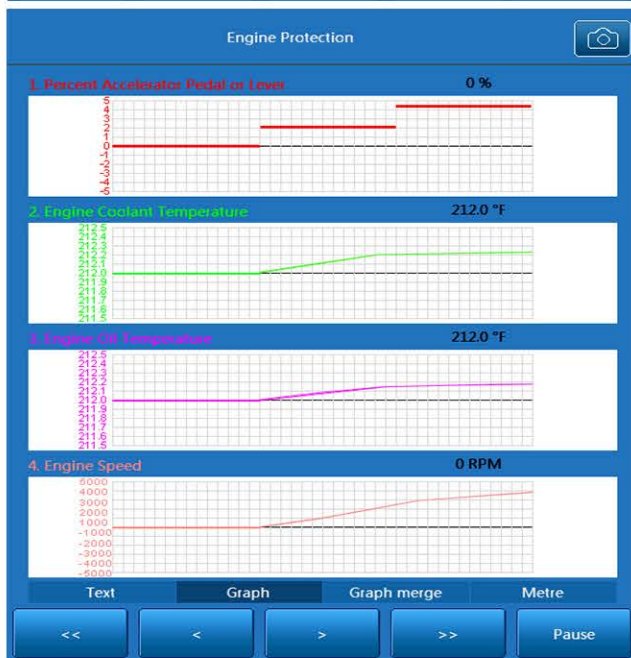
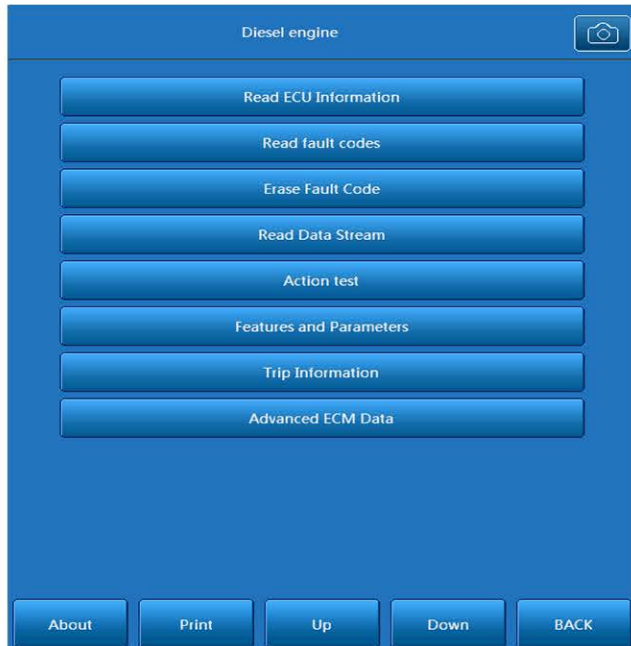
- Cylinder cut out
- Read and clear fault codes
- Read freeze frames
- Read sensor real time live data
- Display emission test results
- Enables support for OBD-II emissions fault and data
- DPF service regen
- Power balancing

RAM TRUCK

- Cylinder cut out
- DPF forced regen or reset
- Read and clear fault codes
- Read sensor real time live data
- Display emission test results
- Compression test
- Injector quantity adjustment
- Mass air flow sensor initialization
- Tire pressure sensor test



F3S-G MasterPro Screenshots



- Auto connect**
Read all systems in seconds
- Scan**
Smart scan all vehicles and electronic control units
- Diagnose**
Quickly diagnose all vehicle systems with live data

- Bidirectional Testing**
DPF regen, cylinder cut out and more
- Modify/Reset Parameter**
ECM reset, service reset, injector reset, DPF/DEF reset, modify governor speed, shutdown timers,

The comprehensive solution you need in one powerful handheld device.

F3S-G MasterPro Diagnostic Scanner Kit



F3SG retail package kit

✓ Main handheld unit

✓ Adaptors:

- Self test adaptor
- OBD II-16
- Diesel 6/9 (type 1 and type 2)
- Cat 9 machinery
- Volvo 8
- OBD 1 or other adaptors(Isuzu 20, Benz 14, Isuzu 3, Mitsubishi 12+16, Benz 38, BMW 20, Nissan 14, Honda 3, Iveco 38, Kia 20, Hitachi 4, Hitachi 6, Nyundai 10, Daewoo 12)

✓ Cables

- Main cable (DB15) 3 feet
- Battery clip and plug
- USB data cable

✓ Jumper box set

✓ Accessories

- AC power adaptor
- Fuse

✓ Manual/Warranty card

✓ One-year hardware manufacturer's limited warranty and two-year software updates

F3SG MasterPro Product Details

Shipping weight	30 pounds
Shipping dimension	22"x18"x8"
Shipping region	Within U.S.A.
SKU	USS-092-F3G
UPC	030955039619
Part no	FCAR-092-F3G

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

