



Car Code Software

Document copyright by: *Straight Talk Automotive 2012*

The following are enhanced data and bi-directional functions of the *Vehicle Explorer Car Code Scan Tool* diagnostic kit as posted on the manufacturer's website. We have taken their information and placed it into an ordered document to render it more understandable. Errors can happen and you should consult their site as the authority for any discrepancies.

What is not stated on their site, which should be, is the kit includes generic data capability for all OBD II compliant vehicles since 1996.

This software is scheduled for an updated release in 2013. Hopefully, there will be more coverage and possibly porting to other platforms.

Functions

- Persistent graph settings.
- Enhanced data grid playback and file export.
- 24 channel stop watch with 10 point lap, split times and dual rise fall triggers.
- Real time statistics: average, range, time stamped max and min.
- Glitch capture and scope functions: slope, max and min rise, frequency, period and peak to peak
- Time stamps selectable as data point, seconds, minutes, hours or current time hh:mm:ss
- Message filtering for multiple responses and restricted viewing.
- Improved time out procedures for enhanced data.
- Start, Stop data saving option with space bar.
- Digital dash instruments, any size and location.
- Enhanced data dashboard instrument selections.
- Book mark data items as favorites. Create home page for start settings and auto-connect.
- Adjustable thickness of plot lines.

- **Audio representation of data (no sound card needed).**
- **Search page to define, label, book mark, send and receive your own or extended messages.**
- **User defined real time equation editor, included HP, G force, and MPG.**
- **Core Diagnostic Trouble Codes updated for model years 2000+**
- **Monitor enable and completion status for the current drive cycle.**
- **Updated legislated data common to all cars, 88 parameters with over 100 possible data items, includes wide range O2 sensor scale.**
- **Enable evaporative system for leak testing, year 98+**
- **CAN Service 6 Monitor and Test ID definitions Standardized**
- **CAN real time data packet selector 99-p exclusive.**
- **Core Diagnostic Trouble Codes updated for model years 2005+**
- **View menu item for network analysis and trouble shooting of sent, received and bus messages.**
- **VIN, calibration and verification vehicle identification numbers, year 2000+**
- **VIN number descriptions and check with automatic vehicle specific data selections**
- **Enhanced real time data search by word or server name.**
- **Enhanced Global spec. 7 digit trouble code numbers. Includes manufacturer specific definitions.**
- **Optional VPW system network degrade levels.**
- **Driver traces includes OBD, emission, state inspection and hi-way fuel economy.**
- **ISO/DIS 14230-4 keyword protocol 2000-4 with fast and slow initialization used on many European and Asian model year 2000 and beyond.**
- **Global Position Sensor(GPS) data, stand alone or with dual serial port.**
- **In-Use Performance Tracking with 2005 monitor ratio results**
- **Wizard routines for state inspection and connector locations.**
- **Euro Stage III real time data items, includes A/F sensors and trouble code miles.**
- **Global Warming CO2 grams per mile carbon emission credit real time display and edit equation added, for 8 states and most countries.**
- **Money per Minute and Total Money real time display fuel equations added.**
- **High speed support for all years of INDO-3 and TRICOM 30 Hz possible.**
- **Improved direct ISO connection for WinXP Home.**

Vehicle Enhanced Coverage

GM

PCM COVERAGE

Gasoline (Petrol) Engines

- GM enhanced engine failure records.
- Mode 6 defined test results for CTS, Catera, Prizm, Saturn V6, Vue and Vibe.
- CAN Service 6 Monitor and Test ID definitions
- New GM Lansing L4 real time data.
- GM Mode 6 defined test results
- GM enhanced updated trouble code requests with 7 status modes.
- GM non-uniform diagnostic trouble code definitions.
- Enhanced GM real time data items. For LT1 engine and other.
- Advanced and undocumented OBD2 connection and protocol settings. Speeds of 35 Hz for GM VPW possible using hyper mode.
- GM Class-2 VPW network messages update, includes obstacle detector.
- GM LS2 6.0 L Pontiac GTO engine real time data with device control, includes over 50 circuit checks
- GM LS2 6.0 L Corvette engine real time data with device control, includes adjustable timing.
- GM Cobalt enhanced CAN engine real time data with device control includes service bay Evap.test
- Aveo enhanced real time engine data, device control and Mode 06 test descriptions.
- GM LSJ 2.0 L Redline and Cobalt Supercharged enhanced real time engine data with intercooler control.
- GM L31, L35, LM7 V6 and V8 truck engine enhanced real time data with device control.
- Pontiac Vibe enhanced real time data with device control.
- 1996 DeVille, Eldorado, Seville, Concours, Touring, SLS and STS engine enhanced data with device control.
- 1996 Aurora 4.0L enhance engine and device control, includes Green odometer reset.
- 1996 Lumina Van, TransSport and Silhouette 3.4L enhanced engine and device control.
- 1996 GTP, Z34, LTZ, Cutlass and Lumina 3.4L enhanced engine and device control.

- 1996 Century, Regal, Beretta, Lumina, Achieva, Ciera, Cutlass, Grand Am and Grand Prix 3.1L enhanced engine real time data and device control
- 1996 Beretta and Corsica 2.2L enhanced real time engine data with device control
- Restructured 1996 LeSabre, Park Ave, Riviera, 88, 98 and Bonneville 3.8L enhanced real time data and device control includes supercharger
- 96 GM LT1 engine update includes device control, manual, automatic, Impala SS, Corvette and Camaro variations.
- Restructured 1996 1997 S-10 and Sonoma 2.2L enhanced engine real time data with device and function tests
- 1996 1997 Z24 and Sunfire GT 2.4L LD9 twin cam enhanced real time engine data with device control
- 1996 1997 Skylark, Achieva and Grand Am 2.4L LD9 twin cam enhanced real time engine data with device control
- 1996 1997 Cavalier and Sunfire 2.2L LN2 enhanced real time engine data with device control
- 96-97 Cadillac 4.6L Northstar engine includes engine and transmission oil reset, ignition timing device control.
- 96-97 GM 4.3L, 5.0L, 5.7L, 7.4L Truck engines with device control, includes S10, Sonoma, Blazer and Jimmy 96 ABS brakes.
- 1997 Aurora 4.0L enhanced data.
- 1997 Century, Lumina, Achieva, Cutlass, Grand Am and Grand Prix 3.1L enhanced engine real time data, includes crankshaft sensor learn
- 1997 Ventura, TransSport and Silhouette 3.4L enhanced engine and device control, includes driver 1-4 circuit status.
- 1997 Z34, LTZ, 3.4L enhanced engine and device control.
- 1997 Corvette LS1 restructure update with real time data and device control.
- 1997 Malibu 2.4L twin cam includes fuel trim programming.
- 1999 Blazer, Bravada, Jimmy, S10 and Sonoma 4.3L enhanced real time engine data includes high output CASE learn.
- 2001 GM Catera 3.0L V6 enhanced real time data, includes knock readings for each cylinder.
- GM Alternative Flex Fuel 2002 Cavalier includes alternative and gasoline run hours
- 03-04 Saturn ION enhanced real time data with Air/Fuel ratio device control.
- GM 2004 L61 2.2L Ecotech enhanced engine and N body computer real time data with engine device control.
- GM 2004 LA1 3.4L V6 enhanced engine and W body computer real time data with engine device control.
- 04 GM LR4 4.8 L truck engine enhanced data with device control
- Pontiac 2004 L32 3.8L V6 enhanced real time data with boost device control.
- 05 Malibu enhanced real time 2.2L Ecotech engine and Z body CAN data with engine device control.

- GM L26 3.8L 2006 Buick Lucerne includes Police body and light device control.
- GM 2007 LQ4 6.0L, 2002 LL8 4.2 L and 1998 L31 5.7L truck real time enhanced engine data and device control.
- Pontiac 08 G8 GT 6.0L L76 enhanced real time engine data.
- 2009 Cadillac Limousine High Output Premium L37 enhanced engine data.

Diesel Engines

- GM L65 and L56 1996 6.5L diesel engine enhanced real time data and device control.
- GM L65 1997 6.5L diesel engine.
- GM L29 7.4L C and K 1998 truck crankshaft variation CASE learn, camshaft retard real time data.
- GM L56 6.5L 1998 Diesel EGR
- 2000 GM 6.0L LQ4 C and K truck engine, Federal and California emissions.
- GM 2002 LB7 Duramax updated with device control.
- 2003 GM L18 8.1 Liter truck engine enhanced data with device control.
- 2006 GM 6.6L LBZ diesel engine with device control
- GM LLY 6.6L Diesel includes turbo charger vane position and fuel rail pressure control, turbo charger learn, Allison fast adapts.
- GM L65 6.5L Diesel updated with device control includes boost control, timing set, glow plug learn, power distribution.
- Updated GM diesel enhanced real time data includes 6.6 Liter and automatic transmissions
- GM L65 Diesel enhanced real time data.

TCM COVERAGE

Gasoline (Petrol) Engines

- 96-97 Cadillac 4.6L Northstar transmission oil reset.
- GM 2004 L61 2.2L Ecotech and N body computer real time data transmission device control.
- GM 2004 LA1 3.4L V6 and W body real time data transmission device control.
- Pontiac 2004 L32 3.8L V6 transmission device control.
- 05 Malibu enhanced real time 2.2L Ecotech engine and Z body CAN data transmission adapt set.
- GM LS2 6.0 L Pontiac GTO engine and transmission real time data with device control, includes over 50 circuit checks
- GM LS2 6.0 L Corvette transmission real time data with device control.
- GM Cobalt enhanced CAN transmission computer real time data with device control.

- New GM Lansing L4 real time data and GM transmission data, includes torque and negative shift error times.

Diesel Engines

- GM L65 and L56 1996 6.5L diesel transmission enhanced real time data and device control.
- GM L65 1997 6.5L diesel engine with scaled transmission adapts.
- GM L56 6.5L 1998 Diesel transmission adaption programming.
- GM L29 7.4L C and K 1998 truck crankshaft variation CASE learn, camshaft retard and transfer case real time data.
- GM 2002 LB7 Duramax updated with Allison transmission and device control.
- 2003 GM L18 8.1 Liter truck engine Allison transmission enhanced data with device control.
- Updated GM diesel enhanced real time data includes 6.6 Liter and automatic transmissions

ABS COVERAGE

- S10, Sonoma, Blazer and Jimmy 96 ABS brakes.
- Restructured 1996 1997 S-10 and Sonoma 2.2L enhanced ABS brake real time data with device and function tests
- GM enhanced updated trouble code requests with 7 status modes

SRS (ACM –ROS) COVERAGE

ADDITIONAL MODULES

- 1996 DeVille, Eldorado, Seville, Concours, Touring, SLS and STS body, instrument and radio enhanced data with device control.
- Restructured 1996 LeSabre, Park Ave, Riviera, 88, 98 and Bonneville 3.8L enhanced real time data and device control door locks and supercharger
- 1997 Aurora 4.0L enhanced data includes keyless entry and tire pressure.
- 1997 Corvette LS1 restructure update with suspension, seat, door, body and radio real time data and device control.
- 1997 Malibu 2.4L twin cam includes body controls.
- Tire size brake calibration for GM C/K Truck under 15000 GVW and 03-04 under 8600 with no VSES
- GM Class-2 VPW network messages update, includes obstacle detector.
- GM Cobalt enhanced CAN body and suspension computer real time data with device control includes service bay Evap.test
- GM enhanced updated trouble code requests body, chassis with 7 status modes
- GM network net4 data includes body, lights, dash and security server reports

FORD

PCM COVERAGE

- **96-97 Ford Probe GT enhanced real time data.**
- **Ford Electric Vehicles 98-2001 includes real time battery and motor data for Li-ion and Pb acid.**
- **Enhanced Ford real time data updated to 1,067 possible items, includes 05 Ford GT, Escape Hybrid, 95+ Transit.**
- **Ford Mode 6 CAN update includes 2007 and 6.0 diesel**
- **Ford Hybrid enhanced engine, battery real time data.**
- **CAN Service 6 Monitor and Test ID definitions for Ford**
- **Ford output controls enhanced test function.**
- **Updated Ford Mode 6**
- **Enhanced Ford vehicle information**
- **Enhanced Ford Key On Tests.**
- **Ford Mode 6 defined test results and optional negative notation selection.**
- **Advanced and undocumented OBD2 connection and protocol settings. Speeds of 35 Hz for 30 Hz Ford PWM possible using hyper mode.**

TCM COVERAGE

- **Ford Hybrid enhanced transmission computer real time data.**

ABS COVERAGE

SRS (ACM –ROS) COVERAGE

ADDITIONAL MODULES

- **Ford body and chassis enhanced trouble code request and clear, most models require ISO protocol.**
- **Ford network net4 data includes body, lights, dash and security server reports**
- **Ford Hybrid enhanced battery real time data.**

CHRYSLER

PCM COVERAGE

- **10 clear and reset functions for 2002.5+ Dodge and Chrysler triple processor servers, includes cam, crank and misfire.**
- **02.5+ Dodge Chry enhanced real time data includes over 200 SRT4 Knock and Turbo items, includes CAN and device control.**

- **04+ Durango, 05+ Charger, Challenger, 300, Caliber enhanced engine trouble code functions.**
- **Chrysler Dodge Jeep 05+ enhanced engine trouble code request and 04+ Mode 6 descriptions.**
- **06+ Dodge, Chrysler and Jeep enhanced real time data includes surge status and coil burn times.**
- **2007-2008 Dodge Cummins Diesel includes NO_x, SO_x and Soot regeneration data**
- **CAN Service 6 Monitor and Test ID definitions for Dodge, Chrysler**
- **Daimler-Chrysler network data for VPW protocol models includes injector time and battery temperature.**
- **Daimler-Chrysler non-uniform manufactured controlled diagnostic trouble code and test result definitions**

TCM COVERAGE

ABS COVERAGE

- **Grand Cherokee 99-04 brake code requests.**
- **Breeze 00, Neon 00-05, PT Cruiser 01-05, brake code requests.**
- **Ram 2002-2005, Voyager, Caravan, Town and Country 2001-2006 brake trouble code requests.**
- **04+ Durango, 05+ Charger, Challenger, 300, Caliber enhanced brake trouble code functions.**

SRS (ACM –ROS) COVERAGE

ADDITIONAL MODULES

- **Grand Cherokee 99-04 body code requests, includes rain sensor.**
- **Breeze 00, Neon 00-05, PT Cruiser 01-05, brake and body code requests.**
- **Ram 2002-2005, Voyager, Caravan, Town and Country 2001-2006 body trouble code requests.**
- **Enhanced Chrysler, Dodge, Jeep, Plymouth data, code and network message support for Tricom and TriCAN year 2004+ cables.**
- **04+ Durango, 05+ Charger, Challenger, 300, Caliber enhanced body code functions**
- **Additional Dodge-Chrysler defined network messages includes cabin equalization and crash events.(no support for Tricom and TriCAN)**

HONDA

PCM COVERAGE

- **Rare new model Honda CAN protocol.**
- **Honda and Acura Mode 6 defined test results**

TCM COVERAGE

ABS COVERAGE

SRS (ACM –ROS) COVERAGE

ADDITIONAL MODULES

NISSAN

PCM COVERAGE

- **2007+ Nissan CAN trouble code requests for engine computers**
- **Nissan Mode 6 defined test results.**

TCM COVERAGE

- **2007+ Nissan CAN trouble code requests for transmission computers**

ABS COVERAGE

- **2007+ Nissan CAN trouble code requests for brake computers**
- **SRS (ACM –ROS) COVERAGE**

ADDITIONAL MODULES

- **2007+ Nissan CAN trouble code requests for body computers**

TOYOTA

PCM COVERAGE

- **04+ Prius and Lexus LS430/400 enhanced real time engine, motor and battery data.**
- **Toyota defined test results and enhanced real time data, includes hybrid.**

TCM COVERAGE

ABS COVERAGE

- **98+ Toyota enhanced brake trouble code requests.**

SRS (ACM –ROS) COVERAGE

ADDITIONAL MODULES

- 98+ Toyota enhanced body trouble code requests.

MERCEDES

PCM COVERAGE

- Mercedes Mode 6 test results includes 02+ M271 I4, M112, M272 V6 and M113, M273 V8 engines.
- 2000.5+ Mercedes M-112 V6 and M-113 V8 enhanced ME 2.8 real time data, includes high speed misfire packet data.
- 00.5+ Mercedes C Class trouble code functions includes CAN 7g-Tronic.
- Mercedes C Class trouble code requests updated for 2007 includes smoke screen and taxi printer servers.
- Mercedes non-uniform diagnostic trouble code definitions.

TCM COVERAGE

ABS COVERAGE

SRS (ACM –ROS) COVERAGE

- 00.5+ Mercedes C Class trouble code functions includes CAN 7g-Tronic,

ADDITIONAL MODULES

- 00.5+ Mercedes C Class trouble code functions includes airbag, doors, roof and seats.
- Mercedes C Class trouble code requests updated for 2007 includes smoke screen and taxi printer servers.

Volkswagen Audi Group

PCM COVERAGE

- VW and Audi Mode 6 descriptions.

TCM COVERAGE

ABS COVERAGE

SRS (ACM –ROS) COVERAGE

ADDITIONAL MODULES

VOLVO

PCM COVERAGE

- **95-99 Volvo enhanced Motronic 4.2 and 4.3 engine 3 digit trouble code**
- **Rare new model Volvo CAN protocol.**
- **Volvo trouble code server requests, includes combustion heater**

TCM COVERAGE

ABS COVERAGE

SRS (ACM –ROS) COVERAGE

ADDITIONAL MODULES

- **Enhanced 95-97 Volvo reset maintenance interval lights.**
- **Volvo body and chassis 95-99 trouble code update with defined numbers**
- **2004 x40, x70 code requests.**

SAAB

PCM COVERAGE

- **2005 Saab 9-7X enhanced engine data with device control and A/C pressure.**

TCM COVERAGE

ABS COVERAGE

SRS (ACM –ROS) COVERAGE

ADDITIONAL MODULES

LAND ROVER

PCM COVERAGE

- **Land Rover Trouble Codes for year 05+**
- **Land Rover Mode 6 defined test results.**
- **Rare new model Land Rover CAN protocol.**

TCM COVERAGE

ABS COVERAGE

SRS (ACM –ROS) COVERAGE

ADDITIONAL MODULES

Hyundai - Kia

PCM COVERAGE

- **Hyundai 2.7 L 2005-2006 enhanced engine trouble code read and clear with status, active and shadow memory.**
- **Hyundai 2.7 L Mode 6 data for 05 Sonata, 05-06 Tiburon SantaFe and 05-07 Tucson**
- **2006+ Kia enhanced CAN trouble code requests for engine computers**
- **Hyundai Mode 6 defined test results**

TCM COVERAGE

- **Hyundai 2.7 L 2005-2006 enhanced transmission trouble code read and clear with status, active and shadow memory**
- **2006+ Kia enhanced CAN trouble code requests for transmission computers**

ABS COVERAGE

SRS (ACM –ROS) COVERAGE

ADDITIONAL MODULES

Isuzu

- **2005 Isuzu Ascender 4.2 Liter enhanced engine data with device control and A/C pressure.**
- **2005-2007 7.8L LG4 Isuzu diesel engine includes exhaust brake reprogramming.**

Subaru

- **Subaru Mode 6 defined test results.**

- **Subaru non-uniform diagnostic trouble code definitions**
- **Subaru enhanced real time data**

Suzuki

- **Suzuki 2002-2007 enhanced trouble code read and clear with history status messages**

Mazda

- **Mazda Mode 6**

Lotus

- **Lotus enhanced real time data.**

Workhorse

- **2006, 2007 Workhorse W22 W24 8.1L L18 6 speed enhanced real time data, includes Allison transmission computer and fluid temperature.**

Fisker Karma

- **2009 Fisker Karma plugin QTWW Q-drive direct injection 2.0 LNF turbo engine enhanced real time data.**