

DASH Q SCAN

AUTOMOTIVE DATA MONITOR & PERFORMANCE CALCULATOR



TECHNOLOGY BY: **SCT**

DASHSCAN

AUTOMOTIVE DATA MONITOR & PERFORMANCE CALCULATOR

TECHNOLOGY BY: **SCT**



- ✓ **Monitors & Records Engine Parameters in Real-Time via the Large Backlit LCD Display!**
- ✓ **Reads / Clears DTC Trouble Codes!**
- ✓ **Performance Monitor!**
- ✓ **Built-In Horsepower, Torque, 1/4 Mile & 0 - 60* mph Elapsed Time!**
*Adjustable up to 120mph!
- ✓ **Works with most 1996 - 2008 Ford & GM gas & diesel vehicles!**

MORE FORD / GM SCT PRODUCTS!

X3 POWER FLASH



The NEW X3 Pre-Programmed / Custom Tunable Flash Device is SCT's latest Handheld Flash Programmer! The X3 arrives Pre-Loaded with DYNO Proven tune files that INCREASE HORSEPOWER, TORQUE and EVEN FUEL MILEAGE! The NEW X3 also stores up to 3 Custom Tune files which can be loaded by any of SCT's Custom Tuning Dealers World Wide! With a HUGE Backlit display, the SCT X3 Power Flash makes it EASY to read the Built-In Data Logging or Real Time Vehicle Monitoring Data, view popular sensor data such as EGT, Air / Fuel Ratio or any other 0-5 Volt source!

6.4L ENABLED LIVEWIRE



Unleash the FIRE in your Ford 7.3L / 6.0L / 6.4L Diesel truck with SCT's Livewire Pre-Loaded or Custom Tunable Flash Device!

Whether you use your Ford Diesel Truck for TOWING, Racing or just as your daily driver, SCT offers a Pre-Loaded or Custom Tuned device to UNLEASH THE FIRE in your Ford Diesel! SCT offers Performance, Towing and EVEN EXTREME Race tune files for your diesel truck. No more struggling up mountains or hills, simply change tune files and enjoy MORE POWER, MORE TORQUE, increased Fuel Economy (Average gain 2+ MPG) & TOWING POWER instantly!

GM XCALIBRATOR 2

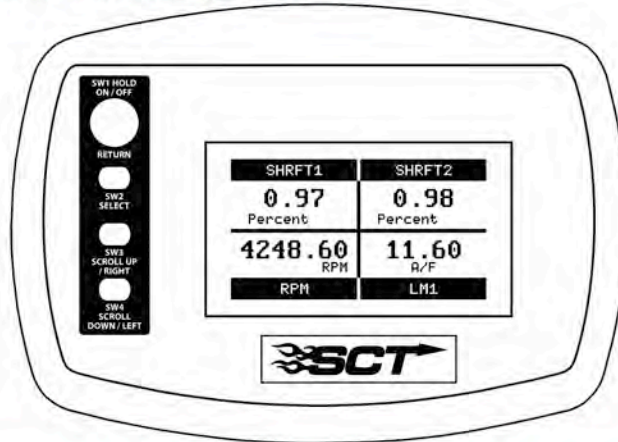


The SCT XCalibrator 2 Custom Tuning PCM Flash Tool is designed to be used with our Advantage III Custom Tuning Software Package. The XCalibrator 2 will store up to 3 Custom Tune files created by you, while storing the stock factory tune for easy restoration back to the stock configuration. Flashing your General Motors vehicle with a custom tune specifically calibrated for your vehicle has never been easier! SCT's XCalibrator 2 instantly adds MORE POWER, MORE TORQUE and can even INCREASE your vehicle's FUEL MILEAGE!

USING YOUR DASHSCAN

DASHSCAN BUTTON FUNCTIONS:

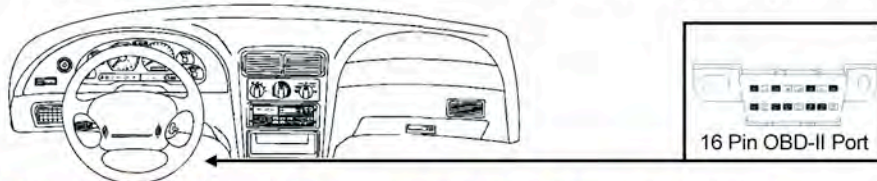
Dashscan features 4 buttons for navigating the device:



- | | |
|--|---|
| SW1 - Hold to turn Dashscan ON / OFF
- Press to exit menu's and feature screens | SW3 - Scrolls to the Left
- Scrolls Up |
| SW2 - Press to Select Highlighted menu choices
- Misc. other screen specific functions | SW4 - Scrolls to the Right
- Scrolls Down |

CONNECTING DASHSCAN TO YOUR VEHICLE:

The OBD-II cable is the physical interface between Dashscan and your vehicle's PCM. The OBD-II port is typically found under the dash on the driver's side of the vehicle (See Diagram Below). The port may be labeled as a diagnostic port with a cap covering the pin connector. If present, the cap will need to be removed. This cable must be connected to monitor the vehicle's PCM parameters.



DASHSCAN ANALOG INPUT CABLE CONNECTIONS:

Dashscan features 2 Analog input channels which can be used to monitor external 0-5Volt sources such as Air / Fuel sensors, Exhaust Gas Temperature sensors, 1-3 Bar MAP sensors, or any other 0-5Volt signal. [Please refer to the back of this manual for the wiring diagram.](#)

DASHSCAN CHANNEL 1 PRE-CONFIGURED SENSOR LIST:

Wideband Air / Fuel Sensors:

Innovate LM1
TE2A0
PLX
LC1
AEM
AFM1000
Dynojet WBC

EGT Sensors:

SCT EGT
PLX EGT

RAW 0-5Volt:

Any raw 0-5Volt source

MAP Sensors:

GM 1 Bar MAP
GM 2 Bar MAP
GM 3 Bar MAP

USING YOUR DASHSCAN

TURNING YOUR DASHSCAN ON / OFF:

Dashscan automatically powers on when you plug the unit into your vehicle's OBD-II diagnostic port. When connected, Dashscan will first show the Dashscan logo screen, then show the JMS Chip & Performance distributor screen.

SW1 To turn the Dashscan unit OFF, press and hold the SW1 button until the unit powers off.

SW1 Once off, Dashscan can be turned ON by pressing and holding the SW1 button until the unit powers ON.

DASHSCAN VEHICLE IDENTIFICATION:

In order to effectively monitor your vehicle, Dashscan will need to identify your vehicle type and PCM Strategy Code.

- 1** Plug the Dashscan into your vehicle's OBD-II Diagnostic Port.
- 2** Dashscan will power ON, display the product logo screen, the JMS distributor screen and then display the Detect Vehicle screen.
- 3** When prompted, turn the vehicle ignition to the ON position. Dashscan will identify your vehicle type and briefly display the detected vehicle type before continuing.

N **NOTE:** Dashscan will need to identify the vehicle type / PCM Strategy Code each time it is disconnected from the vehicle or is used in another vehicle. If Dashscan is used in a different vehicle make, all saved information such as recorded data etc. will be cleared when moved to another vehicle.

***** **TIP!** Should you need to know your vehicle's exact PCM Strategy Code, Dashscan can read the vehicles strategy code in the Read DTC menu. See the section called "Reading & Clearing Diagnostic Trouble Codes" for instructions on reading your vehicle's PCM Strategy Code.

Detect Vehicle

Please turn ignition key on then press a switch to continue

Identifying Vehicle
Please Wait

Auto Detected
Ford CAN GAS

DASHSCAN LED LIGHT:

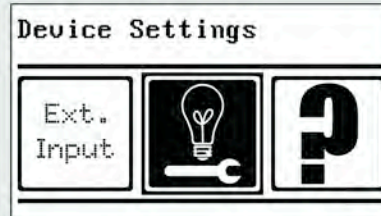
Dashscan features a bright green LED light on the upper right hand corner of the device. The LED has been added to the device as both a power light and for a future feature. It has been disabled in the device firmware until the new feature is released and will NOT illuminate.

DASHSCAN SETUP

DASHSCAN DEVICE SETTINGS:

Device settings such as the Backlight Brightness / Contrast etc. are adjustable via the Device Settings menu.

- 1** To change the device settings, use the SW3 or SW4 button to scroll to the Device Settings menu option from the main menu. Once selected, press the SW2 button to enter the device setup screen.
- 2** To adjust a device setting, scroll to the setting using the SW3 or SW4 button(s). Once the setting is highlighted, press the SW2 button to begin adjusting the setting.
- 3** To adjust each setting, use the SW3 or SW4 button(s) to increase / decrease the setting value or turn the setting ON / OFF. Once you have finished adjusting the setting, press the SW2 button to return to the settings selection menu.
- 4** To exit the Device Settings menu, press the SW1 button.



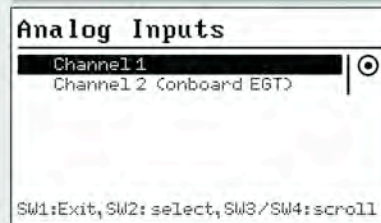
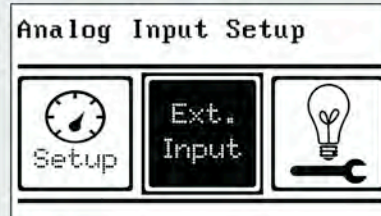
Device Settings

Backlight	100
Contrast	35
Audio	ON
Conversion	US
DetectMode	auto
Performance	OFF

DASHSCAN ANALOG INPUT CHANNEL SETUP:

Dashscan can display realtime data on the Monitoring screen from 2 Analog Input Channels.

- 1** To setup the Dashscan analog input monitoring, scroll to the Analog Input Setup menu using the SW3 / SW4 button(s). Once selected, press the SW2 button to enter the Analog Input Setup screen.
- 2** **Setting Up Channel 1:** Highlight Channel 1 using the SW3 or SW4 button(s) and press the SW2 button once highlighted. Dashscan will display a list of available pre-configured sensors. Using the SW3 or SW4 button(s), scroll to the type of sensor you wish to monitor on Channel 1. Once selected, press the SW2 button. Dashscan will display a list of pre-configured sensors for the external sensor type you have selected. Scroll to the sensor you wish to monitor using the SW3 / SW4 button(s) and press the SW2 button to select your choice. When finished, press the SW1 button to return to the main menu. Once the channel setup is complete, Dashscan will show the device configured for Channel 1 at the bottom of the screen.



DASHSCAN SETUP

DASHSCAN ANALOG INPUT CHANNEL SETUP:

1 Enabling Channel 2 - On-board SCT EGT:

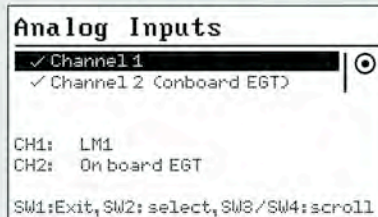
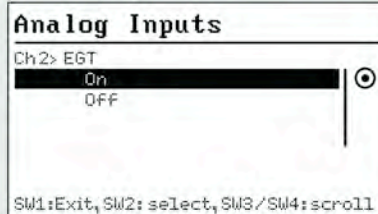
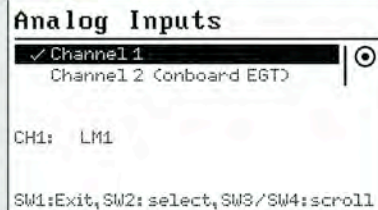
To enable Channel 2 - On-board SCT EGT device, scroll to the Channel 2 menu choice using the SW3 / SW4 button(s) and press the SW2 once highlighted.

2 Dashscan will display the Channel 2 ON / OFF screen. Using the SW3 / SW4 button(s), scroll to highlight the ON menu option.

Once highlighted, press the SW2 button to turn ON Channel 2 and press the SW1 button to exit to the main menu.

Once Channel 2 is enabled, it will appear in the Channel list at the bottom of the screen.

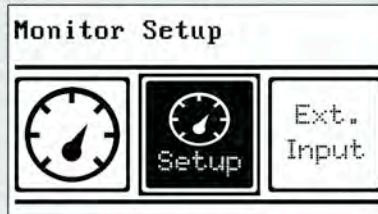
N NOTE: The Analog Input Channels must be setup prior to setting up the Monitoring Setup in order to appear if the list of available parameters to be monitored.



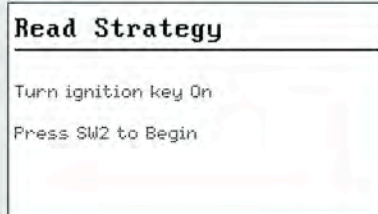
DASHSCAN MONITOR SETUP:

Dashscan can monitor up to 8 PCM parameters in realtime on the backlit display.

1 To setup the Dashscan PCM parameter monitoring, scroll to the Monitor Setup menu using the SW3 / SW4 button(s). Once selected, press the SW2 button to enter the Monitor Setup screens.



2 Dashscan may need to identify your vehicle type and will display the Read Strategy screen. When prompted, turn the ignition key to the ON position. Press the SW2 button and Dashscan will automatically detect your vehicle type / PCM Strategy Code.



DASHSCAN SETUP

DASHSCAN MONITOR SETUP:

- 3** Once completed, you will be prompted to turn the key OFF. Turn the ignition key to the OFF position and press the SW2 button to continue.
- 4** Dashscan will then ask if you would like to configure the Analog External Inputs. If you wish to setup this option, select Yes from the menu and follow the instructions in the Analog Input setup section of this manual. To continue without setting up the Analog Inputs, select No using the SW3 / SW4 button(s) and press the SW2 button to continue.
- 5** Dashscan will display a list of available PCM parameters you can monitor (PID's). Use the SW3 / SW4 button(s) to scroll through the list of available PCM parameters
- N** **NOTE:** If you have previously setup the Analog Input Channels for monitoring, they will automatically appear in the list of available parameters to monitor.
- 6** To select a parameter to monitor, highlight the parameter and press the SW2 button to select it. A check mark will appear next to the parameter to confirm its selection. You can select up to 8 parameters to be monitored at once. When you have finished selecting the parameters you wish to monitor, press the SW1 button to exit.
- 7** Dashscan will then display a list of the selected parameters that will be monitored. Confirm your selections by pressing the SW1 button.
- 8** Dashscan will prompt you to make sure the vehicle is running. If the vehicle is not running, start the vehicle and press the SW2 button to begin monitoring.

PID SETUP

Turn Ignition Key OFF

Then Press SW2

PID SETUP

(Re)Configure Analog Inputs?

No

Yes

SW2: select, SW3/SW4: scroll

PID SETUP (up to 8)

Intake Air Temp

Desired Idle RPM

Eng. Coolant Temp

Idle Air Con DC

Throt. Pos. Cnts

SW1:Exit, SW2: select, SW3/SW4: scroll

PID SETUP (up to 8)

LTerm Fuel Trm B2

✓ STerm Fuel Trm B1

✓ STerm Fuel Trm B2

✓ Engine Load

✓ Engine RPM

SW1:Save, SW2: select, SW3/SW4: scroll

PID Confirmation

Eng. Coolant Temp

STerm Fuel Trm B1

STerm Fuel Trm B2

Engine Load

Engine RPM

SW1:Done, SW3/SW4: scroll

Monitor Vehicle

Vehicle must be Running
to Start the Monitor

Press SW2 to Begin

DASHSCAN SETUP

DASHSCAN MONITOR SETUP:

- 9** Dashscan will display 4 of the parameters you have previously selected. If you have selected more than 4 parameters, use the SW3 / SW4 button(s) to scroll between the monitored parameters. To exit the monitoring screen, press the SW1 button.

- N** **NOTE:** Dashscan will retain your selections even after being unplugged. There is no need to re-configure the parameters you are monitoring unless you would like to change the list of parameters or use the device in another vehicle. If Dashscan is used in a different vehicle make, all saved information such as recorded data etc. will be cleared when moved to another vehicle.

ECT	Eng. RPM
178.000	2154.06
DegF	RPM
0.980	0.978
%	%
SHRTFT1	SHRTFT2

USING YOUR DASHSCAN

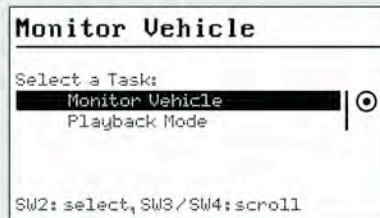
Once you have setup all of the features of your Dashscan device, now you can use it to monitor all of your vehicle's PCM parameters.

MONITORING YOUR VEHICLE:

- 1** To monitor your vehicle, use the SW3 / SW4 button(s) to scroll to the Monitor Vehicle menu option and press the SW2 button to enter the Monitor Vehicle feature.

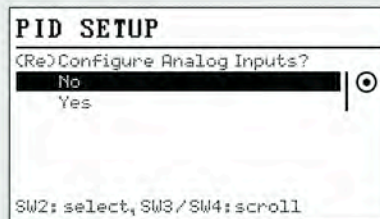


- 2** Dashscan will prompt you to choose between Monitoring the Vehicle or Playback Mode (playback of the last recorded monitoring session).



VEHICLE MONITORING SELECTION:

- 1** To monitor the vehicle, use the SW3 / SW4 button(s) to scroll and highlight the Monitor Vehicle option from the menu choice. Once highlighted press the SW2 button.
- 2** Dashscan will then ask if you would like to Configure the vehicle monitoring. If you have previously setup the vehicle monitoring data, select No from the menu choice. To re-configure the PCM parameters to be monitored, select Yes and refer to the section in this manual called Monitor Setup for instructions.



USING YOUR DASHSCAN

MONITORING YOUR VEHICLE:

- 3 Dashscan will prompt you to make sure the vehicle is running. If the vehicle is not running, start the vehicle and press the SW2 button to begin monitoring.

Monitor Vehicle

Vehicle must be Running
to Start the Monitor

Press SW2 to Begin

- 4 Dashscan will display 4 of the parameters you have previously selected. If you have selected more than 4 parameters, use the SW3 / SW4 buttons to scroll between the monitored parameters. To exit the monitoring screen, press the SW1 button.

ECT	Eng. RPM
178.000	2154.06
DegF	RPM
0.980	0.978
%	%
SHRTFT1	SHRTFT2

PLAYBACK MODE SELECTION:

- 1 To playback previously recorded data, scroll to the Playback Mode choice from the menu choice using the SW3 / SW4 button(s). Once highlighted, press the SW2 button to enter the Playback Mode.

Monitor Vehicle

Select a Task:

Monitor Vehicle

Playback Mode



SW2: select, SW3/SW4: scroll

- 2 Dashscan will display some basic instructions on viewing the previously recorded data. To continue, press the SW2 button.

Instruction

SW1: Exit
SW2: En/Disable Auto-Playback
SW3/4: Step Forward/Backward

Press a SW to Continue

- 3 Dashscan will display / automatically start playing your previously recorded data in two columns. The first column shows the PID's monitored, and the second column shows the current time stamp of the recorded data in seconds.

To pause the data press the SW2 button. You can also step forward and backwards using the SW3 / SW4 buttons. Once you have finished reviewing the recorded data, press the SW1 button to return to the Dashscan main menu.

ECT	178.000	5
SHRTFT1	0.985	.
SHRTFT2	0.990	7
Eng. RPM	879.321	4
		s

USING YOUR DASHSCAN

DASHSCAN BUILT-IN PERFORMANCE CALCULATOR:

Dashscan features a built-in Performance Calculator capable of estimating Horsepower and Torque as well as 1/4 Mile & 0-60MPH elapsed times.

- 1 To enter the Performance Calculator, scroll to the Performance Calculator menu option using the SW3 / SW4 button(s) and press the SW2 button to enter the Performance Calculator feature.

NOTE: Due to variables such as wheel spin etc; all ratings are estimates ONLY.

Performance Calc



! **WARNING:** Testing your vehicle's performance should ONLY be done in a controlled environment such as at your local race track. Never use the Dashscan to test your vehicle's performance on public roads or highways that may endanger yourself or others.

ESTIMATED HORSEPOWER & TORQUE:

- 1 To measure your vehicle's Horsepower & Torque, use the SW3 / SW4 button(s) to scroll to the HP & Torque menu option. Press the SW2 button to enter the Estimated HP/TQ screen.
- 2 In order to effectively measure your vehicle's Horsepower & Torque you will need to enter your vehicle's weight. This weight should include the amount of fuel currently in the vehicle and the weight of the driver.
- 3 To enter your vehicle's weight, use the SW2 button to select the digit and the SW3 / SW4 button(s) to increase / decrease each digit. When finished, press and hold the SW2 button.
- 4 Dashscan will then display your vehicle's Horsepower & Torque as you drive. To reset, press the SW2 button.

HP and Torque



Estimated

HP and Torque

Enter Vehicle Weight

00000 lbs

Select Digit: SW2, Done: Hold SW2

Estimated

HP and Torque

Enter Vehicle Weight

03000 lbs

Select Digit: SW2, Done: Hold SW2

Estimated

HP and Torque

Instantaneous HP: 389.050

Peak HP: 474.800

Peak TQ: 412.090

Press SW2 to Reset

USING YOUR DASHSCAN

DASHSCAN BUILT-IN PERFORMANCE CALCULATOR:

ESTIMATED 0-MPH:

- 1** To measure your vehicles 0-60mph in seconds, use the SW3 / SW4 button(s) to scroll to the 0-MPH menu option. Press the SW2 button to enter the 0-MPH calculator.
- 2** Dashscan will display the ending MPH setup screen. Dashscan allows you to adjust the ending mph from 60mph - 120mph. Use the SW3 / SW4 button(s) to increase / decrease the ending MPH.
- 3** Your vehicle should be running, completely stopped and ready to accelerate.
- 4** When you are ready to test your vehicle's 0-MPH elapsed time, press the SW2 button. Dashscan will begin the Ready, Set, Go countdown.
- 5** When Dashscan displays the GO light, accelerate until the Dashscan is finished calculating your vehicle's 0-MPH elapsed time.

0-MPH Time



0-60 MPH TIME

Use SW3/SW4 to set ending speed. Use SW2 to save setting.

0-60 MPH

0-60 MPH TIME

Car should be running

120 MPH

Press SW2 to Continue



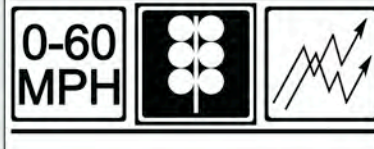
USING YOUR DASHSCAN

DASHSCAN BUILT-IN PERFORMANCE CALCULATOR:

ESTIMATED 1/4 MILE TIME:

- 1** To measure your vehicles 1/4 Mile elapsed time, use the SW3 / SW4 button(s) to scroll to the 1/4 Mile Time menu option. Press the SW2 button to enter the 1/4 Mile Time calculator.
- 2** Your vehicle should be running, completely stopped and ready to accelerate. When you are ready to test your vehicles 1/4 ET, press the SW2 button.
- 3** Dashscan will begin the Ready, Set, Go countdown.
- 4** When Dashscan displays the GO light, accelerate until the Dashscan is finished calculating your vehicle's 1/4 Mile ET.

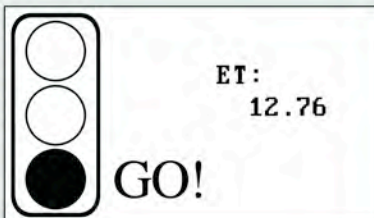
1/4 Mile Time



Estimated 1/4 Mile

Make sure vehicle is running

Press SW2 to Continue

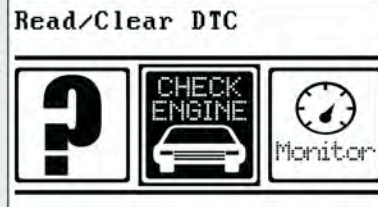


USING YOUR DASHSCAN

READING & CLEARING DIAGNOSTIC TROUBLE CODES:

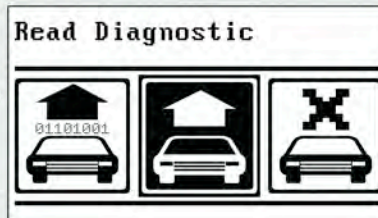
Dashscan allows you to Read & Clear diagnostic trouble codes (DTC's) found in your vehicle's PCM. Dashscan also allows you to read your vehicle's PCM Strategy Code if required. Should a "Check Engine" or "Service Engine Soon" light appear on your dash, you can easily read & clear the DTC code once you have corrected the issue causing the code(s).

- 1 To enter the Read / Clear DTC features, use the SW3 / SW4 button(s) to scroll to the Read / Clear DTC menu choice. Press the SW2 button to enter the Read / Clear DTC features.

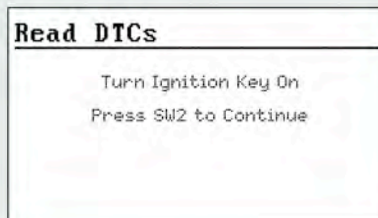


READING DIAGNOSTIC TROUBLE CODES:

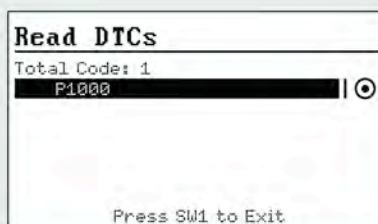
- 1 To read the vehicle's Diagnostic Trouble Codes, use the SW3 / SW4 button(s) to select the Read Diagnostic menu option and press the SW2 button to enter the Read Diagnostic functions.



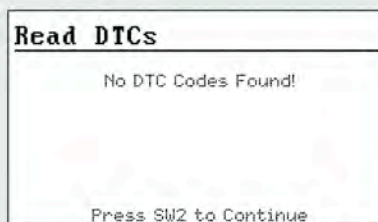
- 2 When prompted, turn the ignition key to the ON position and press the SW2 button to continue.



- 3 Dashscan will read any stored DTC codes from the vehicle's PCM and display them on the screen.



- 4 If there is no DTC codes in the vehicle's PCM, no codes will be displayed.



USING YOUR DASHSCAN

READING & CLEARING DIAGNOSTIC TROUBLE CODES:

CLEARING DIAGNOSTIC TROUBLE CODES:

- 1** To clear the vehicle's Diagnostic Trouble Codes, use the SW3 / SW4 button(s) to select the Clear Diagnostic menu option and press the SW2 button to enter the Clear Diagnostic function.
- 2** When prompted, turn the ignition key to the ON position and press the SW2 button to continue.
- 3** Dashscan will clear any stored DTC codes and display the Completed screen when finished.

READING THE VEHICLE'S STRATEGY CODE:

- 1** To read the vehicle's Strategy Code, use the SW3 / SW4 button(s) to select the Read Strategy menu option and press the SW2 button to enter the Read Strategy function.
- 2** When prompted, turn the ignition key to the ON position and press the SW2 button to continue.
- 3** Dashscan will display the vehicle's Strategy Code on the screen. To exit, press the SW1 button.

Clear Diagnostic



Clear DTCs

Turn Ignition Key On
Press SW2 to Continue

Clear DTCs

Completed!

Press SW2 to Continue

Read Vehicle ID



Read Strategy

Turn ignition key On
Press SW2 to Begin

Read Strategy

CUAF1B2

Press SW1 to Exit

USING YOUR DASHSCAN

DEALER INFORMATION SCREEN:

The Dealer Info menu option shows information about the Dashscan device and the Dealer Information screens.

- 1 To view this information, use the SW3 / 4 button(s) to scroll to the Dealer Information menu option. Once selected, press the SW2 button to display the Dealer Information.

Dealer Info



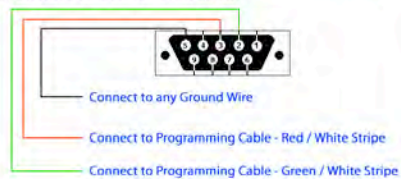
OTHER INFORMATION

ANALOG INPUT WIRING DIAGRAM:

WIRE COLOR	FUNCTION
Blue / White Stripe	Thermocouple (-)
Orange	Ground
White	+5 Volt
Grey	Ground
Green	Reserved
Purple	+5 Volt
Brown	Analog Input
Yellow	Calibration Out
Blue	Reserved
Black	Thermocouple (+)
Red	Ground
Red / White Stripe	Bootloader Transmit
Green / White Stripe	Bootloader Receive

DASHSCAN FIRMWARE UPDATE:

SCT occasionally offers firmware updates for your Dashscan device. These updates are available free from the download area of SCT's website. To update the firmware of the device you will need a standard DB9 cable and a serial port on your computer. Please use the following diagram when wiring the DB9 connector. Visit www.sctflash.com/downloads.php to download Dashscan update software and device firmware updates.



TECHNICAL SUPPORT

Your first option for support is your Dashscan dealer. SCT also offers several other support options after you have purchased Dashscan. SCT maintains a support forum which is available at: <http://www.sctflash.com/forum>. SCT employees, SCT dealers and knowledgeable SCT customers are always there and ready to help with any problem. You can also contact SCT via phone, FAX or US postal service.

SCT LLC.

975 Florida Central Parkway - Suite 1900
Longwood, Florida 32750 USA
Phone: 407.774.2447
Fax: 407.260.6275

DASHSCAN

ADD-ON'S & ACCESSORIES

DASHSCAN ACCESSORIES:

ANALOG INPUT / EGT CABLE



DASHSCAN ANALOG INPUT CABLE

Includes: Analog Input Cable
Monitor any 0-5Volt source!
Take advantage of Dashscan's
Built-In EGT* Device!
Monitor Boost via any
GM 1-3 Bar MAP* Sensor!
Required to monitor
analog inputs

* Sensor(s) Sold Separately

SCT EGT CABLE / SENSOR KIT



DASHSCAN ANALOG INPUT CABLE / EGT KIT

Includes: Analog Input Cable & EGT Sensor
Monitor any 0-5Volt source!
Take advantage of Dashscan's
Built-In EGT Device!
Monitor Boost via any
GM 1-3 Bar MAP* Sensor!
Required to monitor
analog inputs

DASHSCAN PRE-CONFIGURED DEVICES:

SCT EGT SENSOR KIT



DYNOJET WIDE BAND COMMANDER



INNOVATE LM-1 & LC-1



PLX DEVICES AIR / FUEL MODULES



AFM AIR / FUEL KITS



GM 1-3 BAR MAP SENSORS



AEM AIR / FUEL GAUGES



PLX DEVICES EGT MODULES



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