

# **ADS 325** User Manual



# boschdiagnostics.com/pro

\*Lifetime warranty applies only to tool hardware as long as owner maintains an active diagnostics subscription

# Technical Support 1-855-267-2483

For technical questions on your product, contact 855-267-2483, and select the option for technical support.

For assistance with internet or wireless connectivity, contact (800) 533-6127, and select the option for connectivity.

or email <u>techsupport.diagnostics@us.bosch.com</u>.

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# **Safety Definitions**

Follow all DANGER, WARNING, and IMPORTANT messages. These safety messages are defined as follows:

A DANGER or WARNING: Risk of bodily harm and/or possible loss of life.

IMPORTANT: The information demands special attention or risks damage to the vehicle or tool.

The safety messages cover situations of which Bosch Automotive Service Solutions is aware. Bosch Automotive Service Solutions cannot know, evaluate, or advise as to all of the possible hazards. You must be certain that any conditions or service procedures encountered do not jeopardize personal safety.

# **Safety Precautions**

**A** DANGER:

When an engine is operating, keep the service area well ventilated or attach a building exhaust removal system to the engine exhaust system. Engines produce carbon monoxide, an odorless, poisonous gas that causes slower reaction time and can lead to serious personal injury or loss of life.

# **WARNING:**

- When working with hydraulic or fuel lines, be careful that liquids under pressure do not escape and create a dangerous condition. Use adequate ventilation and make sure there are no sparks or possibility of sparks that may ignite any vapor.
- Wear an American National Standards Institute (ANSI) approved eye shield when testing or repairing vehicles.
- Objects propelled by whirling engine components or pressurized liquids escaping may cause personal injury.
- Set the parking brake and block the wheels before testing or repairing a vehicle. It is especially important to block the wheels on front-wheel drive vehicles because the parking brake does not hold the drive wheels.

- Do not drive the vehicle and operate the software at the same time.
- Maintain adequate clearance around moving components or belts during testing.
- Moving components and belts can catch loose clothing, body parts, or test equipment and cause serious damage or personal injury.
- Automotive batteries contain sulfuric acid and produce explosive gases that can result in serious injury due to ignition of gases. Keep lit cigarettes, sparks, flames, and other ignition sources away from the battery at all times.
- Refer to the service manual for the vehicle being serviced. Adhere to all diagnostic procedures and precautions Failure to do so could result in personal injury or otherwise unneeded repairs.
- Use only specially designed replacement parts (brake hoses and lines) for ABS equipped vehicles.
- After bleeding the brake system, check the brake pedal for excessive travel or a spongy feel. Bleed again if either condition is present.
- When installing transmitting devices (Citizen Band radio, telephone, etc) on ABS-equipped vehicles, do not locate the antenna near the ABS control unit or any other control unit.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and radiates radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
- To reduce risk of injury, charge only Bosch Automotive Service Solutions rechargeable batteries for the

handset product with the supplied charger. Other types of batteries may burst causing injury to persons and property damage.

- Use of an attachment not recommended or sold by the battery charger manufacturer may result in fire, electric shock, or personal injury.
- Do not operate the tool with a damaged cord or connector. Replace damaged cords and connectors immediately.
- Do not operate the charger if it has received a sharp blow, been dropped, or otherwise damaged in any way. Take the charger to a qualified service person.
- Do not disassemble the charger. Take the charger to a qualified service person if service or repair is necessary. Incorrect reassembly may result in electric shock or fire. Unplug charger before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.
- To prevent possible hearing damage, avoid using the tool at high volume levels for long periods.
- Do not expose tool or charger to rain, moisture, or snow.
- Verify that cords are located where they will not be stepped on, tripped over, or otherwise become a safety hazard or subjected to damage or stress.
- Use only batteries that are approved for use with this tool. Use of other types may increase the risk of fire or explosion.
- Do not carry a battery in your pocket, purse, or other container where metal objects (such as car keys or paper clips) could short-circuit the battery terminals. The resulting excessive current flow can cause extremely high temperatures and may result in damage to the battery pack or cause fire or burns.

- The battery poses a burn hazard if you handle it improperly. Do not disassemble it. Handle a damaged or leaking battery with extreme care. If the battery is damaged, electrolyte may leak from the cells and may cause personal injury.
- Keep the battery away from children.
- Do not store or leave your tool or battery near a heat source such as a radiator, fireplace, stove, electric heater, or other heat-generating appliance or otherwise expose it to temperatures in excess of 140 °F (60°C). When heated to excessive temperatures, battery cells could explode or vent, posing a risk of fire.
- Do not dispose of your tool's battery in a fire or with normal household waste. Battery cells may explode. Discard a used battery according to the manufacturer's instructions or contact your local waste disposal agency for disposal instructions. Dispose of a spent or damaged battery promptly.
- ⚠ IMPORTANT:
  - To avoid damage or generation of false data, make sure the vehicle battery is fully charged and the connection to the vehicle Data Link Connector (DLC) is clean and secure.
  - Do not place the tool on the distributor of a vehicle. Strong electromagnetic interference can damage the tool.
  - Never disconnect or reconnect any electrical connector while the ignition is on. Powertrain Control Module (PCM) damage may result.

# **General Information**

# Introduction



### Handset Front

### 1. Vehicle Connection Indicator

- GREEN Connected to vehicle.
- RED Not connected to vehicle.
- AMBER Demo mode.

# 2. Main Menu Functions

- Select Vehicle Shortcut to the select vehicle screen.
- **OBDII** Access global OBDII emission-related ECU information.
- **Saved Diagnostic Data** Locate saved vehicle scan reports and data stream recordings.
- **Web Browser** Full internet access and shortcuts to repair information and OEM websites.
- System Settings button Access tool settings, printer setup, subscription information, software updates, and more.
- See what's New Preview scan tool features and operation.
- All Apps Button Access other available Android applications.

# 3. Camera

• 5MP front facing camera.

### 4. Power Button

• Press to power ON handset or if running press to access menu to: Power Down.

#### 5. Screen Shot Button

- Press to take a picture of the current screen.
- 6. Recent apps button
  - Opens a list of thumbnail images of currently running apps.

#### 7. Home Button

• Displays the Main Menu screen.

#### 8. Back Button

• Returns to the previous screen or option.

## Handset

The handset is a ruggedized touchscreen tablet equipped with the Android operating system. The power button is located on the lower center front of the Handset.



Handset Power Button

#### **Power Button Functions**

The power button has two functions

- a. ON: Press the power button to turn the handset on.
- b. OFF: Press and release the power button. A pop up window will appear to shut down the handset.
- c. ON: If the screen times out or is in standby mode, press and release the power button to wake up the handset. Turn ON: With tool off, press to turn ON
- d. OFF: Press the power button and hold for 5 seconds to turn the handset off completely (not recommended).

# **Handset Ports**

ss02866



**Handset Ports** 

- 1. Power Port
- 2. DLC Cable Port
- 3. SD Card Slot
- 4. Audio port
- 5. USB Type "A" port
- 6. USB Type "B" port

# **Handset Back**

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Handset Back

#### 1. Light

- The light has two functions
  - Camera flash mode
  - Flash light mode
- 2. Camera
  - 5MP rear facing camera.
  - Rear racing microphone.
- 3. Microphone

### **Software Descriptions**

#### **Handset Software**

The handset comes with the diagnostic software preloaded. Set up Docking Station, attach power supply provided with kit and charge battery before use. The first time the handset is powered up, the user needs to accept the license agreement. Then, the user will have three choices:

- Register Now: Unlocks all functions of handset.
- Trial mode: Unlocks all functions for 30 days.
- Demo Mode: Displays what functions may look like.

Periodically, updates will become available and the user will be notified by an icon on the screen. To update the handset, there must be Wi-Fi connection available.

#### **Software Applications Overview**

The handset allows users to diagnose problems on a wide variety of vehicles. Users are able to perform common service procedures, maintenance tests, and special tests to find deficiencies with vehicle systems or components.

The handset will display DTCs from OBDI or OBDII systems. Real-time sensor data can be viewed in data stream mode. The user can also obtain diagnostic information regarding repairs.

Browser mode allows the user to connect to the internet to find websites that may help with the repair of the vehicle. The handset comes with wireless communication for ease of use and on-screen help when desired. *to indicate contact has been made.* 

## **Battery Charging**

Connect the handset to AC power and fully charge the battery.

ss02867



#### Power Port

#### 1. Handset

#### 2. AC Power cord

When the handset is turned on, the level of battery charge is indicated in the upper right corner of the screen.

NOTE: The tool can be used while charging.

## **Using the handset**

There are three options for use.

- Register Now: It is recommended to register for full functionality of tool and tech support.
- Trial Mode: This allows use of the handset for 30 days before it must be registered. If the 30 day trial period is over before it is registered, the handset functions will be locked out. At that time, register now or demo mode will need to be entered.
- Demo Mode: This mode demonstrates the functions by displaying random data.



1. Press the power button to turn on the handset



2. Select a language.

# Registration

It is important to register the handset right away. To register, it will need a Wi-Fi internet connection. To connect to Wi-Fi, refer to steps 2 through 6. Register now enables the unit. Register later causes the device to go into a 30-day trial mode. Demo Mode is for training and demonstration purposes only, it cannot communicate with a vehicle. Demo Mode will use sample data.

1. Select Register Now.

Register the tool, begin a trial period, or run the tool in demo mode.



2. Read and accept the End User License Agreement

ss02888	
Step 3 of 7 - End User License	Agreement May 16, 2018
Register My Device Now	End User License Agreement
Register My Device Later	Software Product License Agreement Copyright (c) 2014-2017, Bosch Automotive Service Solutions Inc. All Rights Reserved
Demo Mode	SOFTWARE PRODUCT LICENSE AGREEMENT
	IMPORTANT: Do not continue until you have read this Software Product License Agreement ("Agreement").
	By clicking the i Agree button (or authorizing any other person to do so), you accept this Agreement and are bound by its terms. If you are not sure that you are authorized by your employer to accept this Agreement, take this package to a principal in your firm
	I Agree

#### 3. Select the correct Time Zone.



4. Enable Wi-Fi and select a network and select Next.

ss02890			
			May 16, 2018
Setup Wi-Fi			
Trial Mode			
This will run your tool in Trial Mode for 30 da	ays.		
TEST 16			\$
Secured with WPA2			
TEST 15			Ŷ
Secured with WPA			
Wi-Fi			Next: Your Name
	۷	0	<b>O</b>

Note:

- Wi-Fi Must be ON. If Wi-Fi is OFF slide the Wi-Fi switch to the ON position and follow the prompts on the screen.
- If a Network password is required the Android Wi-Fi screen will be displayed. Follow the prompts on the screen.

#### 5. Activate Warranty

ss02891					
				May 16, 2	
Activate Warranty					
Valued					
Customer					
Bosch					
Bosch					_
Set Clock			Next: Co	ntact inf	0
	$\triangleleft$	0		ioi C	ò.

Enter your Name. Follow the prompts on the screen to activate warranty.

ss02892					
Step 6 of 7 - Activate Warranty					May 16, 2018
Activate Warranty					
ValuedCustomer@gmail.com					
123-555-1234					
5678 Shop Lane					
Address 2 (optional)					
Detroit		МІ		48260	
USA					
				Confirm	Info
	<1	0	-		

# Enter contact information. Follow the prompts on the screen.

SSU2893			
			May 16, 2018
Activate Warranty			
ValuedCustomer			
Bosch Bosch 05-16/2018 ValuedCustomer@gmail.com 123-555-1234			
5678 Shop Lane			
Detroit, MI 48260 USA			Activate Now
	Δ	0	o O

Confirm information. Follow the prompts on the screen and activate warranty.

#### 6. Setup Printer



Note: This can be completed later by going to Settings located on the Main Menu screen.

ss02923	
Connected	May 16, 2018
Main Menu	
ি Select Vehicle	🖽 OBDII
Saved Diagnostic Data	Web Browser
System Settings	See What's New
(iii) All Apps	

# **30 Day Trial**

 Select Register my Device Later for 30 days of full use of the tool before registration is required. If the handset is not registered within the 30 day trial period, after 30 days it will only function in Demo Mode.



2. ADS 325 is ready to use.



#### Demo

1. Select Demo mode



#### 2. ADS 325 is ready to use.

ss02925	▼ 1 10:22
e Demo	May 16, 2018
Main Menu O You are in Demo M	Node Register Now
ि Select Vehicle	🕮 OBDII
Saved Diagnostic Data	Web Browser
System Settings	See What's New
(III) All Apps	

# Provide Power to Scan Tool



**Scan Tool Cable Connections** 

- 1. OBD II / DLC cable
- 2. 12 volt power cable (Use with vehicles that do not supply power through DLC)
- 3. Scan tool

#### **Power via vehicle DLC**

- 1. Connect the OBD II / DLC cable to the scan tool
- Connect the OBD II / DLC cable to the DLC on vehicle. Located within 18 inches (45.7 cm) of steering wheel. Typically located on the driver's side, under dash.
- 3. Turn ignition ON.

#### **Non-powered vehicle DLC setup**

Some vehicles do not supply power through DLC. In this case use the following procedure.

- 1. Connect OBD II / DLC cable to scan tool.
- 2. Connect OBD II / DLC cable to DLC on vehicle. Typically located on the driver's side under the dash.
- 3. Connect the 12 volt power cable to the scan tool power port.
- 4. Connect the 12 volt power connector to the vehicle power outlet.
- 5. Turn ignition ON.



Scan Tool Connected to Vehicle

- 1. OBDII/DLC Cable
- 2. DLC
- 3. Handset

#### **Turning off handset:**



1. Press and release the power button.



2. Select OK. The tool will now shutdown.

# Test Startup and Vehicle Connection

- 1. Turn ON the handset.
- 2. Connect the OBDII/DLC cable to the scan tool.
- 3. Connect the OBDII/DLC cable to the DLC on the vehicle.
- 4. Turn the ignition ON, but keep the engine OFF (KOEO).
- 5. Select vehicle from the Main Menu screen.
- 6. Enter the vehicle information one of two ways:
  - AutoID
    - Manual entry
- 7. From the Vehicle selected screen, select any diagnostic function.

# **Settings**

Settings allow the user to make adjustments to the following:

- Applications
- Software information
- Software update .
- **Printer Setup** •
- . Subscriptions
- User Detail .
- Language •
- Direct-Hit
- Service
- **Report Options**





1. Select Settings from the Main Menu.

# **Application Settings**

From the Settings screen select Application Settings. Follow the prompts on the screen to make changes to the following:

- Demo Mode
- Turn Demo mode ON or OFF
- Units of measure
  - Switch between Standard or Metric
- Use TPR
- Enable TPR
- Data Stream Scroll Options •
  - Select scrolling options •



# **Software Information**

From the Settings screen select Software Information. The current software versions will be displayed. Select View Open Source Software Details to view more in-depth information.



# **Software Update**

From the Settings screen select Software Update.

- Manually check for updates. •
- Automatic download.

NOTE: Active internet connection is required for this function.

If an update is available follow the prompts on the screen to update the handset.

Downloading the software will occur in the background and varies with Wi-Fi connection speed and quality. Installing the software can take up to 45 minutes. Please be sure to have your handset fully charged and allow sufficient time for the installation.



### **Printer setup**

- 1. Ensure device is connected to internet and that network has unrestricted access to Google services.
- 2. Follow the prompts on the screen.



# **Subscription**

The tool must be registered to see this tab.

- 1. From the Settings screen select Subscription.
  - Need to obtain subscription code.
  - After one year, the user will be required to renew the subscriptions to receive product updates.



### 2. Select Enter Subscription Code.



3. Enter Subscription Code and select OK.

ss03080		<b>.</b>
Connected		• 1 10.3 May 31, 2018
Settings		i View User Manual
Application Settings	All Coverage Subscription: Expires 5/10/2019	
Software Information		
Software Update		
Printer Setup	Subscription Successfully Activated	
Subscriptions	Enter Subscription Code Reload Subscriptions	
	< ○ □	<ul> <li>○</li> <li>O</li> </ul>

# **User Details**

1. From the Settings screen select User Details.

ss03081		▼ 🛙 10:38
Connected		
Settings		i View User Manual
Printer Setup	Owner's First Name	John
Subscriptions	Owner's Last Name	Doe
User Details	Distributor Name Email	City Service JohnDoe@CityService.com
Contact Us	Phone	3195551234
Language		Save

### 2. Select field to modify.

ss03082		
Printer Setup	Owner's First Name	✓ 10:38 John
Subscriptions	Owner's Last Name	Doe
User Details	Distributor Name Email	City Service JohnDoe@CityService. <u>com</u>
Contact Us	Phone	3195551234
	come com	company
	e <sup>3</sup> r <sup>4</sup> t <sup>5</sup> 6	u i o p 🛛
a s	d f g h	jk I 😋
<u>↑</u> z	x c v b	n m ! ? 🔺
?123 ,		. 😌
	∇ O	• O

Note: The information saved in User Details will also update registration information.

### Language

- 1. From the Settings screen select Language
- 2. Follow the prompts on the screen
  - English
  - Spanish

## • French



# **Direct-Hit®**

Identifix® Direct-Hit® provides:

- OEM specific information.
- Wiring diagrams.
- Technical Service Bulletins (TSBs).
- Diagnostic procedures.
- Past reported fixes.

Subscription is required to access Identifix<sup>®</sup>. To obtain username and password, select Identifix<sup>®</sup> link and subscribe.

- 1. From the Settings screen select Direct-Hit®.
- 2. Follow the prompts on the screen.



# Service

- 1. From the Settings screen select Service.
- 2. Select Restart Communications.





### 3. Handset will Restart Communications.

ss03085	1 10:41
Connected	May 31, 2018
Settings	I View User Manual
Contact Us	
Language	Initializing Communication
Direct-Hit®	
Service	
Reports	Restart Communications

# **Report Options**

1. Follow the Prompts on the screen.



# **Selecting Vehicle**

WARNING: Before performing any diagnostic functions, refer to the Safety Precautions and Warnings provided by the vehicle manufacturer. In addition, follow any warnings and instructions provided on the handset.



- 2. Select, Select Vehicle from the Main Menu screen to manually choose the vehicle, AutoID to automatically identify the vehicle or enter the VIN.
- 3. Select the vehicle specification options on each screen until the complete vehicle information is entered.

### **AutoID**

AutoID uses the vehicle's Mode 9 VIN information, when available. Most vehicles from 2004 and newer support AutoID, but some other older vehicles may support Mode 9 too.

### **AutoID Operation:**

1. Handset must be on and connected to the vehicle.



- 2. Select AutoID.
- 3. Once selected the handset will begin communicating with the vehicle.
- 4. The vehicle must have the key on, engine off (KOEO).
- 5. Once the VIN is retrieved it is compared to the vehicle database.
- 6. If a match is found the vehicle selection information will be displayed on the screen.

### 7. Wait for AutoID to finish.



8. Select the desired vehicle from the list.

*				🗢 🖬 10:43
Connected Ford F-150 King Ranch 5			Change Vehicle	Home
Vehicle Diagnostics				
ළ ිා Read DTCs	1	<u>∕~</u> D	ata Stream	
Special Tests	Mai Test	ntenance is	Automa System	led Test
Diagnostic Information			Enhanc	ed OBDII
Saved Diagnostic Data	Web Brov	vser	(III) All Apps	
	<  <	D C		) O

9. At this point vehicle entry will disappear and the user will be able to begin using diagnostic functions on the vehicle.

# **Manual Entry**

se03001

The handset must be turned on, and connected to the vehicle Once those conditions are met, complete the following:



1. Select, Select Vehicle.





2. Select Manual Selection.



3. Select the model year of the vehicle.



4. Select the make of vehicle.



5. Select the model.

### 6. Select the sub-model (trim level).

ss03097				
Connected				May 31, 2018
Year	Make	Model	Submodel	Engine
3.5 GAS J35V4 Naturally Aspriated, SOHC	3.5 GAS J38 Naturally As SOHC	SY5 priated,		
Selected No VIN 2015 Acura MDX	Base			Cancel
	$\diamond$	0		<b>○</b> O.

7. Select the engine.

Note: Some vehicles may not require this selection.

ss03098					<b>• 1</b> 40-47
Connected to 2015 Acura MDX Base	: 3.5L		Char	nge Vehicle	Home
Vehicle Diagnostics					
ர் Read DTCs	;	~	Data Str	eam	
Special Tests	Mair Test	ntenance s	$\bigcirc$	Automated System Test	
Diagnostic Information				Enhanced C	BDII
Saved Diagnostic Data	Web Brow	ser	(:::) A	ll Apps	
	4 (				0.

8. At this point vehicle entry will disappear and the user will be able to begin using diagnostic functions on the vehicle.

Recent			
ss03088		-	
•		· · · ·	10:33
Connected		May 31, 2	
Main Menu			
ि Select Vehicle	🖽 obdii		
↓ Saved Diagnostic Data	Web Browser		
System Settings	See What's New		
All Apps			
↓ 0		0 0	).

1. Select, Select Vehicle.



2. Select Recent Vehicles.



- 3. Press and hold a recent vehicle tile and select one of two choices:
  - Set as current vehicle.
  - Delete from recents.
- 4. Or just tap on the recent vehicle tile.



5. At this point vehicle entry will disappear and the user will be able to begin using diagnostic functions on the vehicle.



1. Select, Select Vehicle.\



2. Select Search By VIN.



3. Enter 17-digit VIN then OK.



4. Select the desired vehicle from the list.

ss03105				
Connected to 2008 Ford F-150 King F	Ranch 5.4L		Change Vehicle	Home
Vehicle Diagnostics				
ළ ිා Read DTCs		<u>∕</u> D	ata Stream	
Special Tests	Main Tests	tenance	Automat	ed Test
Diagnostic Information			Enhance	ed OBDII
Saved Diagnostic Data	Web Brows	ser	All Apps	
	⊲ C			0

5. At this point vehicle entry will disappear and the user will be able to begin using diagnostic functions on the vehicle.

# OBDII

### **Overview**

OBDII (also referred to as Generic OBDII) provides limited engine control and monitors the diagnostic control network of the vehicle. When a fault in the control network occurs, a DTC is recorded in the vehicle computer. This system is not vehicle specific so it is NOT necessary to select the vehicle to run a generic test. *NOTE: Enhanced OBDII may be selected from the Diagnostics menu with a vehicle loaded for more specific Mode 6 test information.* 

# **Diagnostic Functions**



- 1. Select OBD-II from the Main Menu screen.
- 2. Follow the prompts on the screen.

### **Readiness Monitors**

Mode 1 displays available monitor information. The OBDII system has a series of systems that run selftests. These systems or components have to be made ready by turning on the ignition or manipulating the system in some other manner. This is called drive cycle. Each system requires specific vehicle drive cycle and operating requirements to take place before the monitor self-check will run. OBDII systems require one monitor for current systems, or two monitors for older systems, are ready before testing can begin.

If the system is ready, no further action is required. If the system is not ready, a drive cycle may need to be performed for that system.

Use the following procedure to verify the system is ready to be monitored.

ss03107				
Connected			May	♥ 10:52 31, 2018
Generic OBDII		Use Metric Units	∝ Share	? Help
Readiness Mode 1	Readiness (Mode 1)			
Data Stream Mode 1	Monitor Description	Status		
	A/C System Refrigerant Monitor	Not Supported		
Freeze Frame Mode 2	EGR System Monitor	Ready		
DTCs Modes 3, 4, 7, A	Catalyst Monitor	Ready		
02 Sensors Mode 5	Heated Catalyst Monitor	Ready		
	Misfire Monitor	Not Supported		
			0'	0.

- 1. View the readiness table to verify system status.
  - Ready: No further action is required.
  - Not ready: Further action is required. Drive Cycle needs to be performed.
  - Monitor not supported: Data is not supported on vehicle.



#### **Data Stream**

Mode 1 views live vehicle sensor data.

The data stream function shows live sensor and solenoid data streaming from the vehicle's electronic control unit (ECU).



1. Select Data Stream Mode 1 from the Generic OBDII screen.



2. Select scrolling preference.



3. Follow the prompts on the screen.



### Expand Screen View Function

To view the data in the enlarge view, press the Expand button.



### Data Stream Button Definitions

Clear All Data Select Clear Data to clear displayed data stream. This function will reset the timeline frame counter and clear graphed data.

Use Metric Units

Use Metric Units

Selecting Metric Units will switch from English/Standard Units to Metric Units.

# Use English/Standard Units

Use English/Standard Units Selecting English/Standard Units will switch from Metric Units to English/Standard Units.

#### **Freeze Frame**

Mode 2 views data captured when a fault occurred. Freeze frame shows a data stream snapshot that was automatically recorded by the ECU when one or more DTCs occurred.

ss03111				🕈 🖸 10:58
Connected			May	y 31, 2018
Generic OBDII	Use Metric L	Inits	∝o Share	? Help
Readiness Mode 1	Mode 2 Freeze Frames			
Data Stream Mode 1	Freeze Frame Description		Value	
Freeze Frame Mode 2	Diesel Particulate Filter Bank 1 Delta Pressure		-25.2 psi	
DTCs Modes 3 4 7 A	e Filter Bank 2 Delta Pressure		-9.5 psi	
,,,,,	Diesel Particulate Filter Bank 1 Inlet Pressure		-93.8 psi	
02 Sensors Mode 5	Diesel Particulate Filter Bank 2 Inlet Pressure		-80.8 psi	
	⊲ ○ □			Ο.

Freeze frame records each sensor's current information at the time a DTC sets. This feature could be used when diagnosing an intermittent condition that requires certain conditions are met before the fault is active. *NOTE: DTCs are not always stored in Mode 2 freeze frame.* 



#### Freeze Frame Button Definitions

**Use Metric Units** 

Use Metric Units

Selecting Metric Units will switch from English/Standard Units to Metric Units.

### Use English/Standard Units

Use English/Standard Units Selecting English/Standard Units will switch from Metric Units to English/Standard Units.

### Screen Capture

Screen Capture

Selecting Screen Capture will save a copy of the current open screen.

# **DTCs Modes**

0002112

Modes 3, 4, 7, and A read and clear DTCs.



1. Select DTCs Modes from the Generic OBDII screen.

*	▼ 10:59
Connected	May 31, 2018
DTCs	X Clear DTCs 🚺 Refresh 😪 Share ⊘ Save
OBDII CURRENT CO	PES
B0001	Driver Frontal Stage 1 Deployment Control (Subfauit)
B0002	Driver Frontal Stage 2 Deployment Control (Subfault)
B0003	Driver Frontal Stage 3 Deployment Control (Subfault)
OBDII PENDING COL	ES
B0001	Driver Frontal Stage 1

2. Use the buttons and follow the prompts on the screen.



# **Oxygen (O2) Sensors**

Mode 5 views O2 sensor monitor test results.

ss03114					
• *					🕈 🖬 11:00
Connected					
Generic OBDII		Use Metric Uni	ts	∝o Share	? Help
Readiness Mode 1	Oxygen Sensor Tests (Mo	ode 5)			
Data Stream Mode 1	Description	Min	Value	Max	Units
	Bank 1 Sensor 1				
Freeze Frame Mode 2	Maximum Sensor Voltage For Test Cycle	0.000	0.003	1.275	v
DTCs Modes 3, 4, 7, A	Lean To Rich Sensor Threshold Voltage	0.000	0.003	1.275	v
02 Sensors Mode 5	tage For Switch	0.000	0.003	1.275	v
	↓ 0			0	0.

Mode 5 displays the average of the O2 sensor monitor test results measured over a period of time. The parameters of this measurement vary between manufacturers. It may be necessary to run the vehicle for a period of time to allow the O2 sensors to fully warm up and begin operating as intended.



#### **Non-Continuous Tests**

Mode 6 views onboard monitoring test results for noncontinuous monitor systems.

ss03115					
■ 🗰					🕈 🛿 11:00
Generic OBD	II		Use Metric Units	∝o Share	? Help
DTCs Modes 3, 4, 7, A	Component parameters ma	ıy not be v	alid if Readiness Status i	s	
02 Sensors Mode 5					
Non-continuous Tests Mode 6	OK		Cancel		
Special Tests Mo					
Vehicle Info Mode 9					
	⊲	0		0	0.

- 1. Select Non-Continuous Tests from the Generic OBDII screen.
- 2. Follow the prompts on the screen. ss03116 🕈 🛿 11:0 • Generic OBDII Non-Continuously Monitored Tests DTCs Modes 3, 4, 7, A (Mode 6) ECU: ENGINE 02 Sensors Mode 5 TID 1 TID 1 Failed Non-continuous Tests CID 1 TID 1 Special Tests Mode 8 N/A MIN 57581.0 5229 Max N/A UNITS Vehicle Info Mode 9 TID 2 TID 2 0 <u>O</u>.

Non-Continuous Monitor Tests (Mode 6) are a pass/fail test. Some examples are certain EVAP tests, catalyst, and EGR. The following information is reported:

- ECU.
- TID (test identification) which indicates the system monitor.
- CID (component identification) which indicates the component tested and its test value.
- Minimum value, maximum value, and current value for each non-continuous monitor supported.
- Pass or fail test results.

Each vehicle manufacturer assigns a code number to their system monitors and components. Refer to the vehicle manufacturers Mode 6 code chart to determine the failure indicated by the TID and CID. If this chart is not available, run an automated system test (AST) from the DTC screen and select Mode 6. See Read DTCs section for more information regarding steps to complete that action.



1. Select Special Tests from the Generic OBDII screen.



When available, this selection will automatically take the user to the special test screen where the test group menu will be displayed. Make a selection to enter the test, then follow the on-screen prompts. Mode 8 will not be supported on all vehicles. If you wish to run an EVAP test on a vehicle that does not support Mode 8, enter vehicle specific mode and refer to the Special Tests section on how to run a special test.



### **Vehicle Info**

Mode 9 views Vehicle Identification Numbers (VINs), calibration ID(s), and verification number(s).



- 1. Select Vehicle Info from the Generic OBDII screen.
- 2. Follow the prompts on the screen.



The 17 digit VIN provides information on the vehicle including year of manufacture, engine and possibly transmission type, vehicle body style, and color. Mode 9 is not supported on older vehicles, so a visual check of the VIN through the windshield or on the door sticker would be required to obtain that VIN. Mode 9 is used on the tool to AutoID the vehicle and for calibration verification to see if a newer calibration is available for re-flashing the ECU.



# **Saved Diagnostic Data**

#### Overview

The Saved Diagnostic Data allows the capability to review previously recorded data.



1. Select Saved Diagnostic Data from the Main Menu Screen.



- 2. Navigate down to the desired saved test.
- 3. Select Specific file.



4. View the report. When finished tap the back button.



- 5. Navigate down to the desired saved recording.
- 6. Select Specfic file.



7. View recording.



# **Browser**

## **Overview**

An internet browser window is available for direct internet access.



1. Select Browser from the Main Menu Screen. The Handset will launch the internet browser. Links to common technical and repair websites are provided. Select the keyboard icon to input text.

Note: The handset will need to have a Wi-Fi connection.

#### **CONNECTING TO WI-FI NETWORKS**

See Android Settings for more information on setting up and connecting to a wireless network.



2. Select Tech Communites brings up appropriate tech community web page.



3. Select Repair Information brings up appropriate repair information web page.



4. Select OEM brings up the manufactures technical web page.

# **Read DTCs**

#### **Overview**

There are two ways to read DTC's using ADS 325. Read DTCs by selecting ALL will scan all available controllers on the selected vehicle.

Read DTCs by selecting individual controllers will scan only the controllers selected on the vehicle.

#### Read DTCs on all systems.

Depending on the vehicle, the handset may ask qualifying questions concerning particular controller types for the vehicle being scanned. If unsure what selection to pick find the manufacturer's Regular Production Option (RPO) Code list sticker on the vehicle, then find the corresponding code for the desired controller. Typical locations for the RPO are the trunk, glove box, or doorjamb area.

These questions may be skipped by selecting Skip Controller. Scan progress will be indicated by the progress bar near the top of the screen.

The Read DTCs on select systems function allows reading, clearing, printing, and sharing (wireless or email) of vehicle DTCs. Onboard Code Assist information may also be available, for selection when DTCs are found. This information contains pertinent details regarding the selected DTC. For more detailed comprehensive information, go to Service and Settings, Direct-Hit® to subscribe.

Vehicle must be selected and the handset must now be displaying the Screen.



1. Select Read DTCs All Systems from the Screen.

ss03131	- 0 1100
Connected to 2004 Volkswagen Passat GLS 2.8L	Change Vehicle
Read DTCs Please select one or more controllers and tap 'Continue' start DTC scan.	to
ENGINE	TRANSMISSION
ABS	WIRELESS CTRL MODULE (TPMS)
OCCUPANT CLASSIFICATION	OCCUPANT RESTRAINT CONTROL
AUTO SWAY BAR	AUDIO
CABIN COMP NODE	RADIO
	Continue
⊲ (	

#### 2. Select all controller qualifiers.

Note: Not all vehicles will have qualifiers.

ss03132		
Connected to 2004 Volkswagen Passat GLS 2.8L	Change Vehicle	Home
DTC Scan Building controller list Please Wait		
Finding ABS (03) controllers Select Controller Qualifier		
Skip controller		
ABS Bosch 5.3		
ABS Bosch 5.7		

3. Scan progress will be indicated by the progress bar in the top of the screen.

Note: If any of the controllers have DTC's go to step 6.

ss03133			
Connected to Volkswagen Passat GLS 2.8L	A	Change Vehicle	🚡 Home
DTC Scan		Stop Sca	an
Reading DTCs from INSTRUMENTS (17)			
• ENGINE (01)		6 DTC(s) found	$\sim$
AUTO TRANSMISSION (02)		6 DTC(s) found	$\sim$
O AIRBAG (15)		6 DTC(s) found	$\sim$
INSTRUMENTS (17)		Readin	g DTCs
SUSPENSION ELECTRONICS (14)			

4. Wait for scan to finish.



Note: There is no arrow beside controller without a DTC and clicking on that line does nothing.

- 5. The controller without a DTC has no DTC line that is selectable and clicking on the line has no effect.
- 6. DTCs will be read from all available vehicle controllers.
  - Select a listed DTC for Related Diagnostic Information See Diagnostic Information section
  - If a DTC has Code Criteria available there will be an "\*" next to the DTC. Once completed the handset will display a list of all the DTCs found on the vehicle and group them by controller. If the handset was unable to communicate with a controller, it will be indicated under the specific controller. Communication problems on certain controllers may be attributed to the vehicle not having that controller. Controllers are sometimes listed for a particular vehicle that do not actually exist.

#### **Read DTCs Select Systems**

Read DTCs by selecting individual controllers will scan only the controllers selected on the vehicle.



1. Select Read Select Systems from the screen.



2. Select the desired vehicle controller then select continue.

ss03136					
•					
Connected to 2	007 Jeep Wrangler Unlimited X 3.8	L   ENGINE	ြာ Change	Vehicle	🛕 Home
DTCs		X Clear DTCs	Refresh	ර <sub>ි</sub> Share	Save
Active					
B1000	Air Conditioning Switch Request Input Circuit/ Performance				Details
B1001	Air/Conditioning Switch Request Input Circuit Low				Details
B1002	Air Conditioning Switch Request Input Circuit High				Details
				0	0.

- 3. DTCs will be read from the selected vehicle controller.
  - Select a listed DTC for Related Diagnostic Information See Diagnostic Information section.
  - If a DTC has Code Criteria available there will be an "\*" next to the DTC.

### **Ford/Lincoln/Mercury**

When connected to a Ford/Lincoln/Mercury vehicle a pop up menu allowing the user to choose between specific special tests.



1. Select Read DTCs from the screen.



2. Select the desired vehicle controller then select continue.



3. Tapping an option in the menu takes the user to that test. Follow the prompts on the screen.

5	s03140		
	*		
•	Connected to :	12 Ford Mustang Shelby GT500 5.4L   PCM	
1	DTCs	X Clear DTCs 🗋 Refresh 🕉 Share 🤗 Save Set	lf Diag
	Current Codes		
	B10A2-00	Crash Input Details	s
	B1200-00	Crash Input Mismatch - CAN Inactive Hardwired Active	s
	B1207-00	Crash Input Hardwired Signal Details	s
			0.

- 4. DTCs will be read from the selected vehicle controller.
  - Select a listed DTC for Related Diagnostic Information See Diagnostic Information section
  - If a DTC has Code Criteria available there will be an "\*" next to the DTC.

#### **Manual DTCs**

Certain vehicles do not support standard DTC protocol and will require a manual process for retrieving and clearing codes.

ss03141			
Connected to 2002 Subaru F		Change Vehicle	G Home
DTCs	Clear DTCs 📿 Refree	h 🖧 Share 🕢 Save (	⊘ Code Assist
Manual Codes Procedure			
1) Take out diagnosis conn	ector from side of driver's s	eat heater unit.	
2) Turn ignition switch Off.			
<ol><li>Connect diagnosis conn</li></ol>	ector terminal 6 to diagnosi	s terminal.	
4) Turn ignition switch On.			
5) ABS warning light is set	in the diagnostic mode and b	links to identify trouble coo	le.
6) After the start code (11)	is shown, the diagnostic tro	uble codes (DTC) will be sh	own in
			0.

1. Follow the prompts on the screen for retreiving DTCs.

SSU3142					
Connected to 2002 Subaru F	Forester Base 2.5L   .	ABS	ြု Cha	nge Vehicle	Home
DTCs	X Clear DTCs	🗘 Refresh	🕉 Share	⊘ Save	Code Assist
Manual Codes Procedure					
1) Take out diagnosis conn	ector from side	of driver's sea	t heater unit.		T
2) Turn ignition switch Off.					
3) Connect diagnosis conn	ector terminal 6	to diagnosis t	erminal.		
4) Turn ignition switch On.					
5) ABS warning light is set	in the diagnostic	mode and blir	nks to identify	rrouble co	de.
6) After the start code (11)	is shown, the di	agnostic troub	le codes (DT	C) will be sl	nown in
	Þ	0 🗆			o' ()'

### 2. Select Library button.

ss03143		
•		♥ 11:4
Connected to	DTCs	hicle 🕅 Home
DTCs	11	Start Code: Trouble Code Is Shown After Start Code Only Start Code Is Shown In Normal Condition
Manual Codes Pr 1) Take out dia	21	Abnormal ABS Sensor (Open Circuit Or Input Voltage Too High) - Front Right ABS Sensor
2) Turn ignition 3) Connect dia	22	Abnormal ABS Sensor (Abnormal ABS Sensor Signal) - Front Right ABS Sensor
4) Turn ignition 5) ABS warning 6) After the sta	23	Abnormal ABS Sensor (Open Circuit Or Close I ble code.

3. Follow the prompts on the screen.



# 4. Select Clear DTCs button.

ss03145		• 9 11:
Connected to 2002 St	ıbaru Forester Base 2.5L   ABS	हिन्च Change Vehicle 🏠 Home
DTCs	X Clear DTCs 🕻 Refre	esh 🕫 Share 🕑 Save 🕑 Code Assist
Manual Codes Procedure	2	
1) After calling up a d 6 from diagnosis term	agnostic trouble code (DTC), dis inal.	sconnect diagnosis connector terminal
2) Repeat 3 times wit diagnosis terminal for	hin approx. 12 seconds; connect at least 0.2 seconds each time.	ing and disconnecting terminal 6 and
3) NOTE: After diagno code (11) is shown af	stics is completed, make sure to ter memory is cleared.	o clear memory. Make sure only start

5. Follow the prompts on the screen.

#### **Code Criteria**

Codes will be read from the selected controller and displayed on the screen.

ss03146					
□ *					🕈 🛿 11:53
Connected to 20	003 GMC Yukon XL 1500 SLT 5.3L		ြာ Change V	/ehicle (	home
DTCs		X Clear DTC:	s 🗘 Refresh	∝ Share	⊘ Save
Fail Since Clear					
P0016	Crankshaft Position (CKP) Camshaft Position (CMP) Correlation	-	DTC	Status D	etails 2
P0101	Mass Air Flow Sensor Performance	Failure	Record DTC	Status D	etails 🙆
P0102	Mass Air Flow Sensor Circ Low Frequency	uit	DTC	Status D	etails <mark>8</mark> 8
					_
	4 (			0	Ο.

If a DTC has code criteria available there will be an indication in the upper right corner of the listed DTC.

ss03147					
•					
Connected to 2003			ြော Chang		cle 🔓 Home
P0101					? Help
Mass Air Flow Sensor Perfor	mance				
Description	Code Assist			es	IDENTIFIX
Code Criteria	Description	Element	Action	sourc	Google
Code Assist	Top Reported Fixes	Mass Air Flow (MAF) Sensor	Replaced	ne Re	Mitchell Diagnostics
PCM Pin	Top Reported Fixes	Intake Manifold Gasket(s)	Replaced	Onli	
Location	e	Mass Als Flaur	0		
	Þ	0 [			<b>○ O</b>

#### Detail

Detail allows the technician to find details related to a given DTC.

#### Description

Displays the description associated with the selected DTC.

#### **Code Criteria**

Provides information regarding how the DTC is set.

#### **Code Assist**

Provides information regarding the kind of action other technicians found successful when faced with the same DTC.

#### **PCM Pin**

Provides detailed information related to the actual pins on the PCM that are associated with the selected DTC.

#### Location

Aids the technician in determining where on the vehicle their attention should be directed.

#### Scan Test

Provides the technician with detailed test steps.

#### Diagram

Provides a circuit diagram related to the selected DTC.

#### Waveform

Presents reference waveform information to help the technician understand and fix the problem.

#### **TSB Reference**

Provides the technician with TSBs associated with the selected DTC.

#### Connector

Presents information related to the connector to help the technician understand and fix the problem.

#### Identifix® Direct-Hit®

A subscription is required to access Identifix<sup>®</sup> Direct Hit<sup>®</sup>. To obtain a username and password, go to www. identifix.com and fill out the necessary steps to acquire an account.

Once account is setup with Identifix®:

- Select Settings button from the screen.
- Select Direct-Hit<sup>®</sup> from the available tabs on the left margin of the screen.
- Input the username and password acquired from Identifix® by selecting the empty field.
- Using the virtual keyboard enter the required information for both fields.
- Select GO.
- Follow the prompts on the screen.

#### **Read DTCs Button Definitions**

Self Diag

Ford/Lincoln/Mercury

Self Diagnostics button displays a pop up menu allowing the user to choose between specific special tests.



Refresh DTCs Button Tapping the Refresh button initiates a fresh scan of DTCs from the vehicle.

 $\propto^{\circ}_{\circ}$  Share

Share Button

Tapping the Share button opens the app and initiates options. Depending on what's available at the time. Share a list containing all the DTCs set by email or Bluetooth or USB.

#### Read DTCs Button Definitions

## imes Clear DTCs

#### Clear DTCs Button

The Clear DTCs button is used to clear codes and remove all but permanent DTCs on the selected controller. To clear codes, complete the following: *NOTE:* 

- Clearing DTCs will erase current Mode 1 Readiness monitor information and require the user go through necessary drive cycles over again.
   So, if Mode 1 information needs to be reviewed, be sure to view it before clearing codes.
- If a code will not clear, turn the ignition off for at least 10 seconds; turn it back on to KOEO, then retry. Some controllers will go to sleep after a period of inactivity and prevent clearing DTCs. This key cycle may be needed when attempting to communicate with other controllers after a period of time on a different controller.



```
Other Button
```

Tapping the Other button displays a pop-up link that takes the user to help content related to reading DTCs.

Note: an active internet connection will be required.

? Help

Help

Selecting Help will open an online user manual.

### Screen Capture

Screen Capture

Selecting Screen Capture will save a copy of the current open screen.

🕗 Save

Save

Tapping the Save button will save DTC and test data reports from Automated System test

# **Data Stream**

The data stream function shows live sensor and solenoid data streaming from the vehicle ECU (electronic control unit). Connect the handset to the vehicle at key on engine off or key on engine running to see live dynamic data, instead of static live data. Each data item has a selection checkbox and a display format menu.

### **Basic Data Stream Procedure**

ss03148						
Connected to 2013 BMW 335i Coup	e/Conv (E92/E93) Base 3.	OL	Д Д	Change Vehicle		• 11:55
Vehicle Diagnostics						
亡 Read DTCs	;	~	Data	Stream		
Special Tests	Mair Test	ntenance s	í s	Autr Sys	d est	
Diagnostic Information			Ę	Enhance	ed OBE	DII
↓ Saved Diagnostic Data	Web Brow	ser		All Apps		
	4 (			0		0.

- 1. From the screen, select Data Stream.
- 2. If the vehicle is NOT a Volkswagen/Audi then go to step 7.

ss03149	
Connected to 2008 Audi A4 Quattro 3.2L	Change Vehicle 🙆 Home
Data Stream Please select a controller and tap 'Continue' to see Data	Stream
ENGINE (01)	AUTO TRANSMISSION (02)
ABS (03)	TIRE PRESSURE MONITOR (65)
7BAG (15)	ALL WHEEL DRIVE (22)
"O DIST REG (13)	AUTO HVAC (08)
NOOF (26)	AUX HEAT (18)
	Continue
< <	

- 3. Select the desired vehicle controller then select continue.
- 4. Follow the prompts on the screen.



#### Data Groups

• Data groups may be selected at any time within

data stream.

- Select the data group menu button from the top of the screen.
- Scroll through the menu until the desired data group is found, then select it.
- 5. Follow the prompts on the screen. Select or customize a group.



6. Enter the Volkswagen/Audi Group. When finished go to Step 10.

ss0315	2								
	Connected to 2003 Cadillac CTS Luxury Sport			6		le G			
							V		
Data	Stream								
Please s	elect a controller and tap 'Continue' to see D	ata S	tream						
	•						-		
9	ENGINE		•	TRANSMISSION	1				
	ANTILOCK BRAKE SYSTEM			AIRBAG					
	IPLIFIER		•	CLIMATE CONTROL					
	3H INTEGRATION MODULE		•						
	vER DOOR SWITCH			DRIVERS DOOF	RMODULE				
						Contin	ue		
	4	0				0.	0.		

- 7. Select the desired vehicle controller then select continue.
- 8. Follow the prompts on the screen.

ss03153					
•					
Connected to 20	03 Cadillac CTS Luxury Sport 3.2L   EN		ြော Change		Home
Data Stream					Playback
All Data Groups	All Data Groups		Search all Data S	treams	٩
All Data Items	All Data Items	• * Cruise	Clutch Switch (If	🗸 Sele	ect
EVAP Data	* PNP Switch (If     • A/C High Side Pressure	• A/C Hig • A/C Off	h Side Pressure For Wide Open	<i>A</i> 011	
Engine Data 1	A/C Pressure Disable     A/C Relay Command	• A/C Rel • A/C Rec	ay quest	_0 Cus	tomize
Engine Data 2	Acceleration Pedal     Accelerator Pedal	Acceler     Acceler	ator Pedal ator Pedal		
	EVAD Data				
				0	0

#### Data Groups

• Data groups may be selected at any time within data stream.

- Select the data group menu button from the top of the screen.
- Scroll through the menu until the desired data group is found, then select it.
- 9. Follow the prompts on the screen. Select, Select or Customize a group.

	Connected to 2003 Cadillac CTS Luxury Sport 3.21   ENGINE							
							ш.	
ali d	ata Items	\$13 Expan	nd J	∱ Sort	Playback	_0 Customize	0 0	Other
	Fuel Level	3.96 g	al		Fuel Tank Pressure	-9	.4 inH	20
	Calculated Converter Temperature	414	۶F		Startup Engine Coo	ant Temperature	115	°F
	Del Torque PWM Duty	92	%		Generator F-Termina	l Signal	18	%
	Heated Oxygen Sensor Heater Bank 1	55.4	%		Heated Oxygen Sen	sor Heater Bank 1	33.8	%
	Left Front Bank 2 Cruise/Acceleration	42	%		Short Term Fuel Trir	n Bank 1	-82	%
	Short Term Fuel Trim Bank 2	11	%		Engine Oil Life Left		-46	%
	Volumetric Efficiency	-160	%		Evaporative Emissio	ns Purge Solenoid DC	39	%

10. The selected data will be displayed.

#### **Enlarge Screen View Function**



1. To view the data in the Enlarge view, press the Enlarge button.



2. Press the Enlarge button again.



Note: The far left 2-data tiles will be enlarged to select the specific data tiles to be enlarged.

To see more graphs use your finger to swipe the screen. *Note: Depending on your Scroll Options preference either horizontally or vertically.* 

#### **Full Screen View Function**

To view the data full screen, press Full Screen button.



Note: The left graph will be shown full size.



To see more graphs use your finger to swipe the screen. *Note: Depending on your Scroll Options preference either horizontally or vertically.* 

#### **Display Types**

To change data item display types, select the data item menu button located in upper right.



NOTE: Not all o	display types are available for all data items.	Shrink Function
I	To zoom out pre	
Menu Butto Tapping the takes the us	n Menu button displays a pop-up link that ser to more buttons.	Playback: • Select P data stre
##	Digital To change to digital form, select the ## Digital button.	Kecordi When th pushes t there is
	Line Graph To change to line graph, select the Line Graph button.	<ul> <li>To view ton near</li> <li>Select tl</li> </ul>
	Bar Graph To change to bar graph, select the Bar Graph button.	
2	Change Color To change the color of a graph, select the Change Color button.	1. Choose or ing the bo 2. Select the
	Clear All Data Select Clear Data to clear displayed data stream. This function will reset the timeline frame counter and clear graphed data.	Other Button Tapping the O
	Screen Capture	takes the user DTCs. <i>Note: an active in</i>
Screen Cap Selecting S rent open s	ture creen Capture will save a copy of the cur- creen.	
	Use Metric Units	
Use Metric Selecting M dard Units 1	Units letric Units will switch from English/Stan- to Metric Units.	

**Display Type Button Definitions** 

### Use English/Standard Units

Use English/Standard Units Selecting English/Standard Units will switch from Metric Units to English/Standard Units.

# 👯 Expand

Expand button

To view the data in the enlarge view, press the Expand button.

₄৺ Shrink

ress the Shrink button.



- Playback to view previously recorded reams.
- ings are listed from newest to oldest. he folder is full, the newest recording the oldest one out of the list. Currently, no way to manually delete recordings.
- recordings, select the Recordings butr the top of the display.
- the desired recording.

\_🖉 Customize

only the data you want to view by checkox in front of each desired data item. e Sort button.

Other

Other button displays a pop-up link that r to help content related to reading

internet connection will be required.

#### **Display Type Button Definitions**

### ↓<sup>↑</sup> Sort

Sort Function:

- Select Sort to sort data items.
- Data may be sorted alphabetically, by graph, or by selection (checkbox checked).
- Sorting data items will reset the timeline frame counter, so sort these items before recording data. If sorting data while recording the recording will have a period of time where there is no data available.

#### **Select Function**



#### 1. Select the Custom button.



- 2. Choose only the data you want to view by checking the box in front of each desired data item.
- 3. Select apply.

#### **Sort Function**



1. Select Sort to sort data items.

ss03164							
Connected to	o 2003 (	Cadillac CTS Luxur	y Sport 3.2L	ENGINE	A	Change Vehicle	
All Data Ite.		אל Shrink אין אין אין אין אין אין אין אין א	Expand	J <sup>↑</sup> Sort (	▶ Playback	_1 Customize	e 🔿 Other
Fuel Level	Ø	View All					
1.03 14.37 23. Low Avg Hig	‡ <b>↑</b>	Sort By Alpha				_	
Fuel Tank Pressure	٨	Sort By Graph	-			_	
M	4.5 -8.1 inH20 -12.3	31.8 70.8 Low Avg	34.0 97.7 High				
BUFFERING DATA		-				5	1 of 1 1 / 200 frames
		Þ	C				o 0

2. Data may be sorted alphabetically, or by graph. Note: Sorting data items will reset the timeline frame counter, so sort these items before recording data.

### Recording



- 1. Select the red record button located at the bottom left of screen.
  - When recording the red record button will turn into a check mark.

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ss03166						
□ *						
Connected to 2003	3 Cadillac CTS Luxury			Ch	ange Vehicle	n Home
					_	
All Data Ite	$\mathcal{A}^{\mathbf{k}'}$ Shrink $\sum_{i=1}^{k}$	Expand 🧊	î Sort 🕞	0 Playback		O Other
Fuel Level	Calculated Converter Temperature		Del Torque F Duty	<sup>2WM</sup> =	Heated Ox Sensor Hea Bank 1 Ser	rgen tter sor 1
2.99 15.41 25.57 gai Low Avg High		64Q 59	4 33 Low Avg	17 	0.5 37.0 Low Avg	58.4 84.6 High
Fuel Tar Press	Startup Engine Coolant Temperature	Ξ	Generator F Terminal Sig	nal	Heated Ox Sensor Hea Bank 1 Sen	iter
		216 50 -53	10 42 Low Avg	67 %	11.1 58.3 Low Avg	35.5 97.3 <sup>%</sup> High
		-03	0			
RECORDING LIVE DATA						71 frames
	Þ	0			i o	0

2. To stop recording select the check mark.

#### Recordings

			_		•
	And in case of the local division of the loc				U
Il Data Items	\$‡€ Expand ↓↑	Sort 🕞 Playb	ack _/ Customize		
Fuel Level RECORD	DINGS			-7.5 inH2	20
Calculated Cor			ature	39	°F
Del Torque PW ENGINE			90 frames	74	%
Heated Oxyger 2003 Cadillac CTS	S Luxury Sport		Bank 1	48.7	%
Left Front Ban			36 frames	-107	%
Short Term Fue 2008 Ford F-150	King Ranch			-20	%
Volumetric Efficiency	-677 %	Evaporative Em	nissions Purge Solenoid D	c 54	%
Battery Voltage	9.50 V	Accelerator Per	dal Position Sensor 2 Volt	age <b>0.6</b>	v
BUFFERING DATA			16	3 / 200 fram	ses

- 1. Select Playback to view previously recorded data streams.
  - Recordings are listed from newest to oldest. When the folder is full, the newest recording pushes the oldest one out of the list.
  - To view recordings, select the Recordings button near the top of the display.
- 2. Select the desired recording.

#### **Playback Instructions**



To pause the display select Pause.

- To resume the recording, select Pause.
- To advance the recording frame-by-frame:
- Select ">".
- Select either "<" or ">".
- If replay is desired, click and drag the timeline marker back to the beginning of the timeline and release.

# **Special Tests**

#### **Overview**

se03160

Depending on the vehicle and controller selected, special tests are available.

The special test function is a key component of the tool because it allows circuit testing without ever touching a circuit with a DVOM or other electrical testing equipment. This will also protect electrical circuits from being contaminated or damaged from manual testing with electrical troubleshooting equipment. It is also a quick and easy way to test vehicle controller operation which is difficult to test using traditional methods.

						l l	12:19
Connected to 2007 Jeep Wrangler Un	limited X 3.8L		ť	ිට Cha	ange Vehide	â	
Vehicle Diagnostics							
€් Read DTCs			∕ Da	ita Sti	ream		
Special Tests	Ma Te	aintenance sts	e	$\bigcirc$	Automat System	ed Test	
Diagnostic Information				<u></u>	) Enhance	ed OBI	DII
Saved Diagnostic Data	Web Br	owser		(iii) /	All Apps		
	4	0			0		О.

1. Select Special Tests from the screen.

ss03170	
Connected to 2007 Jeep Wrangler Unlimited X 3.8	L Change Vehicle 🛕 Home
Data Stream Please select a controller and tap 'Continue' to see Data	Stream
	TRANSMISSION
ABS	WIRELESS CTRL MODULE (TPMS)
OCCUPANT CLASSIFICATION	OCCUPANT RESTRAINT CONTROL
AUTO SWAY BAR	AUDIO
CABIN COMP NODE	RADIO
4 0	Continue

2. Select the desired vehicle controller then select continue.



3. At the special test screen, select a special test group from the group selection menu, then select the desired special test within the desired test group.



4. Only the tests meeting the search criteria are displayed. Select the desired test to be executed.

Note: Some tests may require a registration like Tire Pressure Sensor Test.

ss03173			
Connected to 2	007 Jeep Wrangler Unlimited X 3.8L   ENGINE	िन Change Vehicle	Home
Idle Speed S	etpoint		Screen Canture
Set RPM			Screen capture
Idle Speed Setpoint	0.00		
Start	Exit		

#### 5. Follow the prompts on the screen.

NOTE: Some of the instruction text may not exactly match what is on the screen. This will be updated as product updates are released.



6. To terminate a test at any time, use the emergency stop button. To exit special tests normally, select the exit or abort button.

Note: Exit or abort will both stop the current special test and take you back to the start of Special Tests.

All features outside the special test are locked out until the test is terminated to protect the vehicle and the person running the special test. If a function outside the special test is desired, terminate the test and proceed to the desired function. Special tests are not available for all vehicles and controllers. The air bag controller will rarely provide special tests, as actuating the air bag would cause damage to the steering wheel or cabin components. It would also be necessary to replace air bag modules after running the test and clean the interior. Special tests will be continuously updated as more are added; in addition, tests which do not function may be removed during updates as well. There may be tests listed that do not function on the selected vehicle. This is likely due to the fact that many vehicles have different systems depending on sub-model types.



Selecting Screen Capture will save a copy of the current open screen.

# **Diagnostic Information**

#### **Overview**

Diagnostic Information provides diagnostic, repair, and reset information for the selected vehicle.



1. Select Diagnostic Information from the screen.

ss03184									
			▼ 12:26						
Connected to 2007 J	leep Wrangler Unlimited X 3.8L   E		Change Vehicle						
Diagnostic Information									
Diagnostic inton	nauon		Select Controller						
	6.167	311	2						
Video Library	Direct-Hit®	Code-Assist Libra	ry Repair-Trac®						
94									
Symptom Assist	Symptoms List	Drive Cycle	Oil Light Reset						
PCM Pin	TSB Reference	Trans Pan ID	Location Info						
Ducha Dia d									
			○ O'						

2. Select the desired function from within the Diagnostic Information menu.

#### **AutoDetect Results Number Indication**

Diagnostic Information provides diagnostic, repair, and reset information for the selected vehicle.

- Each vehicle and controller will have its own set of indications.
- The indication is displayed on top of the Diagnostic Information selection.
- When entering diagnostic information, the application will conduct a search in the background for the selected vehicle/controller combination to determine the number of items it will contain.

NOTE: If diagnostic information is desired for a different controller or vehicle, return to the Screen and change the controller or vehicle there, then re-select Diagnostic Information. Failure to follow this could lead to display errors or communication errors.

NOTE: Not all assets within the Diagnostic Information menu will utilize the AutoDetect Results Number indication feature.

#### **Code Assist™ Library**

This function will allow a search for DTCs by letter/ number designation.

ss03185				▼ 12:26
Connected to 2007	7 Jeep Wrangler Unlimited X 3.8L   ENGINE	ितु Change	Vehicle	Home
Code-Assist Li	brary   Press DTC for	r Repair Info	rmation	
P Codes	7			
(239)				
B Codes				
(26)		ant DTC Turns		
C Codes	Sei	ect DTC Type.		
(15)				
U Codes				
(31)	_			
	< 0		0	O.

1. Select Code-Assist library from the Diagnostic Information screen.

Connected to 2	007 Jeep Wrangler Unli	imited X 3.8L   ENGINE	Change Vehicle	Home
Code-Assist	Library   Pi	ress DTC for Re	pair Informatio	on
P00 Codes (12) P01 Codes	P0016	Crankshaft/Camshaft Tin Misalignment - Bank 1 Sensor 1	ning	DTC Info
(35) P02 Codes (10)	P0031	Oxygen Sensor Bank 1 Sensor 1 Heater Circuit L	.ow	DTC Info
(10) P03 Codes (13)	P0032	Oxygen Sensor Bank 1 Sensor 1 Heater Circuit H	ligh	DTC Info
P04 Codes (19)	P0037	Oxygen Sensor Bank 1		DTC Info
				) O

- 2. The next selection divides the information into subcategories B, C, P and U codes. The next selection divides previous groups even more.
- 3. Remaining selections will eventually filter the list down to a shortened DTC list where the user is able to scroll and select the desired DTC.
- 4. Select the DTC to display the DTC information.
- 5. To return to previous menu screens, select the back arrows at the top of the screen.

#### Identifix® Direct-Hit®

Identifix<sup>®</sup> Direct-Hit<sup>®</sup> requires an account setup with Identifix<sup>®</sup>. To set up an account, go to www.identifix. com and complete the necessary steps.

Once an account is set up with Identifix®:

- Select Settings button from the screen.
- Select Direct-Hit<sup>®</sup> from the available tabs on the left margin of the screen.
- Input the username and password acquired from
- Identifix<sup>®</sup> by selecting the empty field.
- Using the virtual keyboard, enter required information for both fields.
- Select Save.
- Information saved will be displayed.
- 1. Select Identifix<sup>®</sup> Direct-Hit<sup>®</sup> from the Diagnostic Information screen.

ss03187					
000.*					🗢 🛿 12:29
🗙 Direct-Hit – Main 🗙					
C dh.identifx.com/VehicleHome/Index	ROID=19619	13472&VID=21	188697&VSM=3		C 🗈 :
	ONTACT REPAIR H		IOW TO USE DIRECT-HIT	1 LATEST UPDATES	
HOME   SEARCH FIXES   SERVICE MANUALS   MA	INTENANCE	ESTIMATING	HOTLINE   MY SHOP	MY DIRECT-HIT	BOOKMARKS
2007. Jean Wrannier Unimited X 3.81 V6 VIN 1 OHV USA			Post Por	Can't Find Service Manual Info?   New	w Vehicle   Meterral   Logout
SEARCH ALL	ESTIMATING			SERVICE AND REPAIR MANUAL	8
Expression Code The Section	MAINTENANCE CHILTON LABOR Recalls NHTSA Rec	DIRECT-ESTIMATE	NOTOR PARTS & LABOR	Service Info.           Bio-Antois Data.           Bio-Antois Data.           Bio-Informatig and Divisiting and Div	- 
	Þ	0			Ο.

Identifix<sup>®</sup> Direct-Hit<sup>®</sup> is now set up for use on the handset. There are a few areas where Identifix<sup>®</sup> Direct-Hit<sup>®</sup> may be selected:

- From DTC information screen after having selected Read DTCs from the Screen and a listed DTC.
- After running an All DTC Scan from the Read DTCs screen and after having selected a listed DTC in the All DTC Report screen.
- After running an Automated System Test from the Read DTCs screen, and after having selected a DTC under the DTC tab at the Automated System Test report screen.
- From the Diagnostic Information screen, after having selected Diagnostic Information from the Screen.

#### **Repair Trac**®

This function uses the AutoDetect Result Number Indication feature described on the previous page.

1. Select Repair Trac<sup>®</sup> from the Diagnostic Information screen to view previously reported repairs for the selected vehicle/controller combination.

ss03188						
0 0 0 <b>.</b> *						♥ 12:29
Connected to 2007 Jeep Wrangle	er Unlimited X 3.8L   E	NGINE	A	Change Vehicle	â	
Systems						
Engine Performance						$\geq$
Starting and Charging						$\geq$
	4				.1	~
	<u> </u>				, ,	0

Select the desired system.

- Select the category.
- Select the deficiency.
- Select the symptom.
- Report is displayed describing the problem, how to test and fix, and related DTCs.

#### Symptom Assist<sup>™</sup>

This function assists in diagnosing a problem with a vehicle component by selecting apparent symptoms.

1. Select Symptom Assist from the Diagnostic Information screen.

ss03189			- 0 403
Connected to 2003	GMC Yukon XL 1500 SLT 5.3L   PC	м	Change Vehicle
Symptom Assis	st		i View User Manual
A/c Compressor Clutch Problem	A/C Compressor C	lutch Proble	lem
A/c Performance Problem	Element Name	Action Name	e Level Name
Abs Pump Runs Continuously	Air Conditioning (A/C) Compressor	Replaced	Top Reported Fix
Adjustable Pedal Problem	Heater Ventilation Air Conditioner (HVAC)	Replaced	Frequently Reported Fixes
Anti-lock Brakes/brake/ traction Control Light/	A/C Low Side Pressure	Replaced	Frequently Reported
	⊲ 0		<u>.</u> O.

- 2. Select the desired component or component group.
- 3. Select the desired symptom within the component or component group.
- 4. To go back to previous screens use the back arrows near the top of the screen.

#### **Symptom List**

Diagnostic Information provides diagnostic, repair, and reset information for the selected vehicle.

- 1. Select Symptom List from the Diagnostic Information screen.
  - Displays a list of symptoms associated with the selected vehicle/controller combination.
  - Select Symptoms List from the Diagnostic Information menu.



2. Select the symptom that is currently being exhibited by the vehicle on the vehicle.

#### **Video Library**

When Video Library is selected the user will be taken to a list of videos. These videos will illustrate how to perform various functions on the handset.

1. Select Video Library from the Diagnostic Information



2. Search website for videos.

#### **Drive Cycle**

The OBDII system has a series of systems that run selftests. These systems or components have to be made ready either by simply turning on the ignition or by manipulating the system in some manner. This is called Drive Cycle. Drive cycle information is listed for continuous and non-continuous monitors.

1. Select Drive Cycle from the Diagnostic Information screen.

ss03192						
			▼ 12:32			
Connected to 2003	GMC Yukon XL 1500 SLT 5.3L   PCM	िने Change Vehicle	Home			
			le la			
Drive Cycle			/iew User Manual			
A/c System Refrigerant Monitor	<ol> <li>Cold start engine coolant temperature &lt; 50 degrees Celsius, with air conditioning &amp; rear defrost on, idle 2.5 minutes in drive. Before proceeding turn accessories off.</li> </ol>					
Catalyst Monitor						
Comprehesive	2) Acceleration to 55 miles per hour, 1/2 throttle, air conditioning off.					
Egr System Monitor	3) 3 minutes steady state cruise 55 & 60 miles per hour.					
EVAR Sustan Manitar	4) Deceleration to 20 miles per hour (clutch out) no brake.					
5) Acceleration at 3/4 throttle to 55-60 miles per hour then steady						
			0			

- 2. Scroll through the list until the desired monitor or drive cycle is found.
- 3. Select the desired drive cycle and follow the instructions.

#### **Oil Light Reset**

On newer vehicles, the oil light reset procedure will indicate how the oil life information can be reset after an oil change.

1. Select Oil Light Reset from the Diagnostic Information screen.



- 2. Select Oil Light Reset from the Diagnostic Information menu screen.
- 3. Follow the prompts on the screen to turn off the indicator lamp.

#### **PCM Connector Pin Information**

Displays a list of which connector and pin a component or sensor is received through on the PCM.

1. Select PCM Pin Information from the Diagnostic Information screen.

ss03194	
0 0 0 <b>- *</b>	💎 🛿 12:3
Connected to 2003 GMC Yukon XL 1500 SLT 5.3L   P	CM 🕞 Change Vehicle 🔓 Home
PCM Pin	
Pin Number	Description
C1-1	Ground
C1-2	12 Volt Reference
C1-3	Fuel Injector 3 Control
C1-4	Fuel Injector 2 Control
C1-7	5 Volt Reference
C1-8	5 Volt Reference

2. Scroll through the list and select the desired sensor or component is listed.



#### **Technical Service Bulletin (TSB) References**

Displays TSBs associated with the vehicle/controller combination.

1. Select TSB Reference from the Diagnostic Information screen.

ss03196				
				💎 🖻 12:34
Connected to 2003 GMC Yukon XL	1500 SLT 5.3L   PCI		ितो Change Vehi	icle <u>n</u> Home
TSB Reference				
TSB Number	-	SB Description		
02-09-41-001		Computers & C Modules	Controls - DTC's Se	t When Replacing
01-07-30-002C	Electrical - Malfunction Indicator Lamp ON / Automatic Transmission Stuck in 3rd Gear			
01-07-30-036C	,	Automatic Tran 20756 Diagnos	smission - Diagnos tic Tips	tic Trouble Code
01-07-30-038B		Automatic Tran ndicator Lamp Slipping	smission - 4L60-E , ON / Diagnostic Ti	/ 4L65-E Malfunction rouble Code P0757 /
	⊲ 0			<b>○</b> O'

2. Scroll through the list until the desired TSB is found.

#### **Trans Pan ID**

Displays a list of gasket images that correspond to specific transmissions.

1. Select Trans Pan ID from the Diagnostic Information screen.



2. Scroll through the list of gasket images until the matching gasket is found. Corresponding information is listed below each image.

#### Location

Used to find where specific components are located.

1. Select Location Info from the Diagnostic Information screen.

ss03198		<b>♥</b> ₿ 1:	2:35		
Connected to 2003		ြာ Change Vehicle 🏠 Home			
Location		II View User Manua	al		
Fuse Box Location	Instrument panel fuse boxes are on the	e right and left side of the			
ECU Location	the left side of engine near the battery.				
DLC Location					
Component Location					
	⊲ 0 □	<b>O</b>			

2. Scroll through the list and select the desired component.

#### **Brake Bleed Procedure (ABS)**

Provides the procedure on how to bleed the brakes after replacing brake calipers or opening a brake line to atmosphere.

1. Select Brake Bleed Procedure from the Diagnostic Information screen.



2. It may be necessary to change controllers at the Screen, then re-enter diagnostic information for this selection to become available (ABS, ABS/VSES).

NOTE: The sequence may be contained within the previous brake bleed procedure section if it is not separately listed on the Diagnostic Information screen.

#### **Tune Up Specifications**

Provides specifications for specific components when a tune up is performed.

1. Select Tune Up Specs from the Diagnostic Information screen.

ss03200			
			💎 🖸 12:38
Connected to 2004	4 Ford F-150 XL 5.4L   ABS (4WABS)	िने Change Vehicle	Home
Tune Up Specs		LI Vi	ew User Manual
Injector	Specification: 11:0 to 14.0 Ohms		
Generator			
Spark Plug			
Fuel Pressure			
Compression			
		0	0.

- 2. Some of the tune up specifications contained in this section include the following:
  - Starter
  - Generator
  - Regulator
  - Spark plug
  - Idle speed
  - Fuel pressure
  - Compression
  - Firing order

#### **Key Programming**

Displays instructions for the selected vehicle for programming a key.

1. Select Key Programming from the Diagnostic Information screen.



2. Follow the prompts on the screen to program a key and or replace battery in key.

#### **Battery Disconnect**

Displays procedures for disconnect the battery on the selected vehicle.

1. Select Battery Disconnect from the Diagnostic Information screen.



- 2. Follow the prompts on the screen to disconnect and connect the battery.
- 3. Follow procedures for updating vehicle systems after battery has been disconnected.

#### **TMPS Quick Info**

Describes the operating procedures for the Tire Pressure Monitor System (TPMS) for the selected vehicle.

1. Select TMPS Quick Info from the Diagnostic Information screen.

SSU32U3			▼ 12:40					
Connected to 2009 H	onda Accord LX SLT 2.4L   TIRE PRESSURE MONITOR	िन्जे Change Vehicle	🔓 Home					
TPMS Quick In	formation							
Description	Description							
Reset Procedures	System Description: When the vehicle speed exceeds 28 mph (45 km/h), the Tire							
Reset Trigger	recessue worms system (rems) Collidor Oriti monitorio te pressue in an one system isself system Coperation: The TPMS Has two LED indicators that are part of the gauge module; a low-pressure indicator and a system indicator. When the TPM Control Life Iddates te workersure in a time (re a prohem in the system).							
Torque Specs unit were the specific of the spe								
Tpms Sensor Part Number only the TPMS Isidicator comes on. With the system functioning properly, the low pressure indicator should come on when the ignition is turned ON. It should then go off 2 second later (this is not the case there is a problem with the system.								
	system detects low pressure in any tire, th the TPMS control unit will set one of the for	e low-pressure indicator wi	I come on and					
		0	0					

2. Follow the prompts on the screen to reset the tire pressure monitors.

### **Diagnostic Information Button Definitions**

#### Select Controller

Select Controller Button

Tapping the Select Controller button displays the select controller screen.



#### Other Button

Tapping the Other button displays a pop-up link that takes the user to help content related to reading DTCs.

Note: an active internet connection will be required.

Help

Selecting Help will open an online user manual.

Screen Capture

Help

Screen Capture

Selecting Screen Capture will save a copy of the current open screen.

# **Automated System Test**

#### Overview

The Automated System Test (AST) will scan all available controllers on the selected vehicle for Modes 1-7. Depending on the vehicle, the handset may ask qualifying questions concerning particular controller types for the vehicle being scanned. If unsure what selection to pick, find the manufacturer's Regular Production Option (RPO) code list sticker on the vehicle, and then find the corresponding code for the desired controller. Typical locations for RPO are trunk, glove box, or doorjamb. These questions may be skipped by selecting Skip Controller.



1. Select Automated System Test from the Screen.

ss03205			
Connected to 2007 Jeep Wrangler Unlimited X 3.8L	A	Change Vehicle	G Home
Automated System Test		Stop Sca	an
Reading DTCs from ENGINE		L	
		9 DTC(s) found	$\sim$
ENGINE		Readin	g DTCs
WIRELESS CTRL MODULE (TPMS)			
TIPM CENTRAL GATEWAY			
STEERING ANGLE			
CABIN COMP NODE			

2. Wait for the list to be complete.



3. Scan progress will be indicated by the progress percentage bar on the screen.

ss03209			<b>a</b> ( <b>1</b> ) 12:44	
Connected to 2007 Je	eep Wrangler Unlimited X 3.8L	ලි Cha	nge Vehicle 🔒 Home	
Automated Sy	stem Test	X Clear DTCs 🗘 Refr	esh $\propto_0^{\circ}$ Share $\bigcirc$ Save	
Summary	Summary			
DTCs	VIN:1FTPW14V28FC54321 C CALIBRATION ID(S):BOSCHA1	ONTROLLER:ENGINE 037366956, 4EF7033C		
Data Stream Snapshot	Add Image(s) to Rep	port		
Mode 1	DTCs Found	Data Items	Freeze Frame Data (Mode 2)	
Freeze Frame	IUS         ZU         19           Oxygen Sensor Tests         Non Continuously Monitored Tests (Mode 6)			
<u> </u>	م م		<ul> <li>○</li> <li>O</li> </ul>	

4. When report is complete, it will auto-navigate to report screen.

ss03208	
Connected to 2007 Jeep Wrangler Unlimited X 3.8L	Change Vehicle 🕞 Home
Automated System Test	Stop Scan
Getting GLOBAL OBDII Mode 2 Freeze Frames	
Readiness Monitor Tests (Mode 1)	11 items(s) found
A/C System Refrigerant Monitor - READY	
EGR System Monitor - READY	
Catalyst Monitor - READY	
Heated Catalyst Monitor - READY	
Misfire Monitor - READY	

5. Follow the prompts on the screen.

NOTE: Available items will vary from vehicle to vehicle.

Select Automated System

#### **Summary Report**

ss03209			◆ 월 12:4
Connected to 2007 J	eep Wrangler Unlimited X 3.8L	ලි Char	nge Vehicle 🔓 Home
Automated Sy	/stem Test	× Clear DTCs し Refr	esh $\propto_0^{o}$ Share $\bigcirc$ Save
Summary	Summary		
DTCs	VIN:1FTPW14V28FC54321 CON CALIBRATION ID(S):BOSCHA103	NTROLLER:ENGINE 7366956, 4EF7033C	
Data Stream Snapshot	Add Image(s) to Repo	rt	
Mode 1	DTCs Found	Data Items	Freeze Frame Data (Mode 2)
Freeze Frame	108	20	19
	Oxygen Sensor Tests	Non Continuously Mon	itored Tests (Mode 6)

AST summary reports items found on the vehicle, such as:

- Controllers found on vehicle.
- DTCs.
- Data Stream Snap Shot.
- Mode 1 (Readiness Monitor).
- Freeze frame.
- Mode 5 (O2 sensor).
- Mode 6 (Non-continuous monitor tests).

NOTE: Available selections will vary from vehicle to vehicle.

### **DTCs**

						🗢 🖸 1
Connected to 2007 J	eep Wrangler Unlin	nited X 3.8L		ြာ Change Ve	hicle (	ப் Home
Automated Sy	vstem T	est	× Clear DTCs	رَّي Refresh	∝ Share	🕗 Sav
Summary	Diagno	stic Trouble (	Codes			
DTCs	0	TRANSMISSION	1	9 DTC(:	s) found	^
Data Stream Snapshot		P0078 - Activ Circuit (Bank	ve - Exhaust Va k 1)	lve Control	Details	
Mode 1		P0560 - Activ Voltage	ve - Battery Sy	stem	Details	
Freeze Frame		P0613 - Activ Processor	ve - Internal Tra	ansmission	Details	
		D0070 D	din a Frihannak	V-L		

DTCs recorded are displayed. When selecting DTCs, diagnostic information is also available (same information as the Read DTCs screen).

#### **Data Stream Snapshot**

ss03211					<b>• • •</b> • • • •
Connected to 2007 Je	ep Wrangler Unlimited X 3.8L	ថ	Change V	'ehicle (	Home
Automated Sy	stem Test	imes Clear DTCs	C Refresh	$\propto_0^0$ Share	Save
Summary	Data Stream Snaps	hot			
DTCs	Global OBDII				
	Description			Value	
Data Stream Snapshot	Boost Pressure Sensor A			212.8 psi	
Mode 1	Boost Pressure Sensor B			194.2 psi	
Freeze Frame	Commanded Boost Pressure A 255.4 psi				
				r <u>-</u> 1	
				0.	Ο.

Data stream Snapshot, is a current view of the onboard vehicle sensors.

#### **Mode 1 (Readiness Monitor)**

ss03212		
		🕈 🖸 12
Connected to 2007 Je	ep Wrangler Unlimited X 3.8L	ि Change Vehicle 🔓 Home
Automated Sy	stem Test 🛛 🗙 🕬	lear DTCs 🚺 Refresh 🛯 😪 Share 📀 Save
Summary	Readiness (Mode 1)	
DTCs	Monitor Description	Status
	A/C System Refrigerant Monitor	Ready
Data Stream Snapshot	EGR System Monitor	Ready
Mode 1	Catalyst Monitor	Ready
Freeze Frame	Heated Catalyst Monitor	Ready
	Misfire Monitor	Ready
L	]	

Readiness Monitor Tests displays the results from the continuous monitors available on the selected vehicle. There are three states: ready, not ready, and not supported. If the monitor is not ready, a drive cycle must be completed prior to running this test. For more information regarding drive cycles, refer to diagnostic functions Mode 1 readiness.

#### **Freeze Frame**



1. Select a frame.

ss03214					- 10.40
Connected to 2007 Je	ep Wrangler Unlimited X 3.8L	Ĩ	Change Veh	iicle	Home
Automated Sy	stem Test	X Clear DTCs	🗘 Refresh	∝o Share ⊘	) Save
Data Stream Spanshot	Mode 2 Freeze F	rames			
	Freeze Frame Descrip	ion		Value	
Mode 1	Diesel Particulate Filter	Bank 1 Delta Pressure		-20.6 psi	
Freeze Frame	Diesel Particulate Filter	Bank 2 Delta Pressure		-18.1 psi	
Mode 5	Diesel Particulate Filter	Bank 1 Inlet Pressure		60.3 psi	
Mode 6	Diesel Particulate Filter	Bank 2 Inlet Pressure		78.0 psi	
	Φ	0 🗆		0	0.

Mode 2 displays recorded data in the form of a DS snapshot by the vehicle's computer when specific DTC are set and the MIL is illuminated.

#### Mode 5 (Oxygen sensor tests)

Mode 5 views O2 sensor monitor test results.

ss03215					
0 0 0 <b>.</b> *					🕈 🖪 12:46
Connected to 2007 Je	ep Wrangler Unlimited X 3.8L	6	Change V	ehicle	Home
Automated Sy	stem Test ×	Clear DTCs (	2 Refresh	∝o Share	Save
Data Stream Snapshot	Oxygen Sensor Tests (Mo	ode 5)			
	Description	Min	Value	Max	Units
Mode 1	Bank 1 Sensor 1				
Freeze Frame	Maximum Sensor Voltage For Test Cycle	0.000	0.003	1.275	v
Mode 5	Lean To Rich Sensor Threshold Voltage	0.000	0.003	1.275	v
Mode 6	High Sensor Voltage For Switch Time Calculation	0.000	0.003	1.275	v
				0)	0.

Mode 5 views O2 sensor monitor test results. Mode 5 displays the average of the O2 sensor monitor test results measured over a period of time. The parameters of this measurement vary between manufacturers. It may be necessary to run the vehicle for a period of time to allow the O2 sensors to fully warm up and begin operating.

Note: Mode 5 is not supported on all vehicles.

#### Mode 6 (Non-continuous monitor tests)

Mode 6 views onboard monitoring test results for noncontinuous monitor systems.

ss03216						
						🕈 🖬 12:
Connected to 2007 J	Jeep Wrangler Ur	nlimited X 3.8L		្រៀ Cha	nge Vehicle	Home
Automated Sy	stem	Test	imes cie	ear DTCs 🗘 Refi	resh 🖧 Share	Save
Data Stream Snapshot	Non-( (Mod	Continuo le 6)	ously Monitor	ed Tests		
	ECU: E	NGINE				
Mode 1	TID 1	TID 1			⊘ Passed	
Freeze Frame	CID 1	TID 1				
Mode 5		N/A MIN	9667.0 VALUE	25292 MAX	N/A UNITS	
	TID 2	TID 2				
Mode 6	CID 2	TID 2			Failed	
		Þ	0		0'	0.

Non-Continuous Monitor Tests (Mode 6) are pass/fail tests, including certain EVAP tests, catalyst, and EGR. The following information is reported:

- ECU.
- TID (test identification) indicates the system monitor.
- CID (component identification) indicates the component tested and its test value.
- Minimum value, maximum value, and current value for each non-continuous monitor.
- Pass or fail test result.

Each vehicle manufacturer assigns a code number to their system monitors and components. Refer to the vehicle manufacturers Mode 6 code chart to determine the failure indicated by the TID and CID. If this chart is not readily available, run an automated system test (AST) from the DTC screen and select Mode 6. See Read DTCs section for more information regarding steps to complete this action. This may provide a more detailed description of the Mode 6 test information.





# **Maintenance Tests**

#### Overview

Maintenance Tests provide a way for specific systems to be recalibrated or reset after service. Maintenance test availability will vary from vehicle to vehicle, and will be updated over time.

Maintenance tests are the same as special tests, but this is a shortcut to most frequently used tests on the selected vehicle. These specific tests can also be found under special tests.



1. Select Maintenance Test from the Screen.



2. Select the desired category for the component or system being worked on.

Note: If there are no sub-sections available for the selected category go to step 5.



3. Select the desired test to be performed.



#### 4. Follow prompts on the screen.

ss03179	
Connected to 2004 Ford F-150 5.4L   INSTRUMENT CLUSTER	Change Vehicle 🔒 Home
Battery Saver Relay Control Command State:	Screen Capture
Enegized De-Energized Exi	t

#### 5. Run the test.

Note: For more information refer to Special Tests section.

Maintenance Tests Button Definitions				
	O Other			
Other Button Tapping the Other takes the user to he	button displays a pop-up link that elp content related to reading			
Note: an active interne	t connection will be required.			
	Screen Capture			
Screen Capture Selecting Screen C	apture will save a copy of the cur-			

# **Enhanced OBDII**

### **Overview**

Enhanced OBDII provides all of the same functions and features as Generic OBDII with the addition of OEM specific MID/TID and TID/CID descriptions for Non-Continuously Monitored Tests in Mode 6. This gives the user more insight as to what is actually being tested when viewing the Mode 6 data.



1. Select Enhanced OBDII from the screen. Note: For more information refer to the OBDII section in the beginning of the manual.

# **Saved Diagnostic Data**

### Overview

The Saved Diagnostic Data functions allows the capability to recall previously run tests and Data Stream Records.



1. Select View Saved Tests from the Screen.

Note: For more information refer to Saved Diagnostic Data section in the beginning of the manual.

# **Browser**

# Overview

An internet browser window is available for direct internet access.



1. Select Browser from the Screen.

Note: For more information refer to Saved Diagnostic Data section in the beginning of the manual.

# **Customer Support**

### **Order Information**

Replacement and optional parts can be ordered from www.otcparts.com or an OTC authorized tool supplier.

# **Repair Service**

Please contact Technical Support for troubleshooting and service options before sending any unit in for repair. To send a unit in for repair, go to https://repairtrack. bosch-automotive.com and follow the online instructions.

This website will also have the latest service policies and service center locations. If you do not have internet access, please call (800) 344-4013.

#### **Bosch** Automotive Service Solutions Inc

655 Eisenhower Drive Owatonna, MN 55060 USA Telephone: 507-455-7000 Customer Service: 800-321-4889 Ext 4 Option 2 Fax: 800-283-8665 dgwscs@us.bosch.com Technical Service: 855-267-2483 Fax: 800-955-8329 techsupport.diagnostics@us.bosch.com

www.boschdiagnostics.com