StarSCAN™
Quick Reference Guide

Table of Contents

ECU View

Shows list of all ECUs on connected vehicle. Indicates if an ECU is responsive, if DTCs are set, and if ECU is located on the CAN B or CAN C Bus.

Network View

Shows graphical represent-ation of vehicle's network. Red buttons indicate trouble spots such as loss of communication or DTCs.

System View

Shows the vehicle organized by system, such as Climate Control or Security. Data from many different ECUs might be shown in each system display.
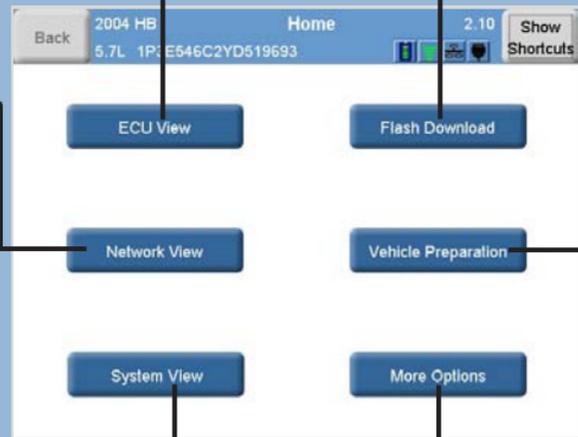
Flash Download

Find and download any available flash updates. Search using a connected vehicle or manually entered criteria: VIN, ECU part #, TSB #, or Year / Model / Engine combination.

Vehicle Preparation

Perform common pre-delivery routines, such as setting customer preferences like "Program Key".

More Options

Access additional features, such as creating a custom data display, creating data recording templates, or viewing TSB's.

| Back | 2004 HB   Home   2.10 | Show Shortcuts |
| | 5.7L 1P3E546C2YD519693 | |

ECU View   Flash Download

Network View   Vehicle Preparation

System View   More Options

Print Screen
Print paper copy of current screen

Home
Display Home screen

Hide Shortcuts
Closes the Shortcuts toolbar

| Tool Menu | Update Tool | Help | Print Screen | Home | Hide Shortcuts |

Tool Menu
Adjust tool settings

Update Tool
Download and install software updates

Help
View electronic user manual

StarSCAN

Touch to display StarSCAN status. Turns red to indicate a serious malfunction in the StarSCAN tool itself.

Diag CAN C

Touch to display vehicle communication status. Turns red to indicate CAN electrical faults such as short to grounds, power, and opens.

Gateway

Touch to display a list of the connected vehicle's ECUs and other configuration information. Turns red to indicate that StarSCAN can't communcate with the gateway.

CAN B / CAN C Bus

Touch to display CAN B or CAN C Bus status. Turns red to indicate electrical faults such as short to grounds, power, and opens.

Powertrain / Chassis

Touch to display a list of problem ECUs. Turns red to indicate problem ECUs such as non-responsive ECUs or ECUs with DTCs set.

Body / Interior / Safety

Touch to display a list of problem ECUs. Turns red to indicate problem ECUs such as non-responsive ECUs or ECUs with DTCs set.

Advanced

Touch to display detailed network communication DTC's report.

Network View screen showing: Back, 2004 HB, 5.7L 1P3E546C2YD519693, Network View, 2.10.02, Show Shortcuts. Elements: StarSCAN, Diag CAN C, Gateway, CAN C Bus → Powertrain / Chassis, CAN B Bus → Body / Interior / Safety, Advanced.

STEP 1

Touch **ECU View**

ECU View shows a list of ECUs.

If not on Home screen**,** touch **Show Shortcuts**, then **Home,** then **ECU View.**

| Back | 2004 HB | Home | 2.10 | Show Shortcuts |
| 5.7L 1P3E546C2YD519693 | | | |

ECU View   Flash Download

Network View   Vehicle Preparation

System View   More Options

STEP 2

Touch an ECU

Touch scroll arrows to browse list.

Touch column names to sort list.

| Back | 2004 HB | ECU View | 2.10 | Show Shortcuts |
| 5.7L 1P3E546C2YD519693 | | | |

Controller Name	Active	DTCs	Bus
ABS Anti Lock Brakes / Electronic Stability	☑	0	CAN C
PCM NGC III Engine	☑	2	CAN C
TCM NGC III Transmission (EATX)	☑	1	CAN C
AMP Amplifier	☑	---	CAN B
CCN Cabin Compartment	☑	---	CAN B
DDM Driver Door	☑	---	CAN B
EOM Electronic Overhead	☑	1	CAN B

STEP 3

Touch **View DTCs**

View DTCs displays a list of Active, Stored and Pending DTCs in the ECU.

| Back | 2004 HB | ECU Overview - TCM | 2.10 | Show Shortcuts |
| 5.7L 1P3E546C2YD519693 | | | |

Hardware Version: 00.00   Software Version: 09.08.07
Part Number: 04606455AC   Country Code: USA

Data Display   Actuators   Misc. Functions   More Options

View DTCs

Active: 0   Stored: Pending: 0

STEP 4

Read DTC information

Touch a DTC, then touch **Environ. Data** to display enviromental data for highlighted DTC.

| Back | 2004 HB | DTCs - TCM | 2.10 | Show Shortcuts |
| 5.7L 1P3E546C2YD519693 | | | |

	Status	Description	Clear Stored DTCs
P0122	Pending	Throttle Position Sensor 1 Low	Environ. Data
P0123	Active	Throttle Position Sensor 1 High	

Freeze Frame

Tech Tips

Toggle Row Height

STEP 5

Touch **Clear Stored DTCs**

Clear Stored DTCs shows a Confirm message box.

Active and Pending DTCs will not be cleared.

	2004 HB	DTCs - TCM	2.10	Show Shortcuts
Back	5.7L 1P3E546C2YD519693			
	Status	Description		Clear Stored DTCs
P0122	Pending	Throttle Position Sensor 1 Low		Environ. Data
P0123	Active	Throttle Position Sensor 1 High		Freeze Frame
				Tech Tips
				Toggle Row Height

STEP 6

Touch **Yes**

Touching **Yes** clears DTCs.

Touch **No** to keep stored DTCs and return to list.

	2004 HB	DTCs - TCM	2.10	Show Shortcuts
Back	5.7L 1P3E546C2YD519693			
	Status	Description		Clear Stored DTCs
P0122	Pen Confirm			Environ. Data
P0123	Acti	This will clear all the stored DTCs for this ECU. It will also reset Environmental Data for active DTCs. Proceed?		Freeze Frame
		Yes No		Tech Tips
				Toggle Row Height

⑤ View and Graph Data ⑤

STEP 1

Touch **ECU View**

ECU View shows a list of ECUs.

If not on Home screen, touch **Show Shortcuts**, then **Home,** then **ECU View.**

STEP 2

Touch an ECU

Touch scroll arrows to browse list.

Touch column names to sort list.

STEP 3

Touch **Data Display**

Data Display shows a list of status and sensor values for the selected ECU.

Most recent DTC set is at bottom of screen.

STEP 4

Read data

Touch scroll arrows to browse list.

Touch column names to sort list.

STEP 5

Touch a row

Isolate Row shows a graph of selected row.

Touch **Un-isolate Row** to return to Data Display.

STEP 6

Touch **Add to Graph**

Touch another row, then touch **Add to Graph** for each row on graph.

Touch **Show Graph** to view graph.

STEP 7

Touch **More Options**

To show all rows on one graph, touch **More Options**, then **Merge Graphs.**
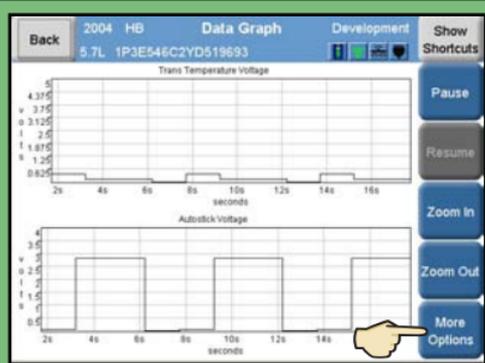
STEP 8

Touch **Back**

Back returns to Data Display.

Begins on back

STEP 1

Touch **ECU View**

ECU View shows a list of ECUs.

If not on Home screen, touch **Show Shortcuts**, then **Home,** then **ECU View.**

STEP 2

Touch an ECU name

Touch scroll arrows to browse list.

Touch column names to sort list.

STEP 3

Touch **Actuators**

Actuators displays available actuators for the ECU.

STEP 4

Touch an actuator

Touch scroll arrows to browse list.

STEP 5

Touch **Start Actuator**

Start Actuator shows a Select an Option message box.

Touch **Cancel** to return to list.
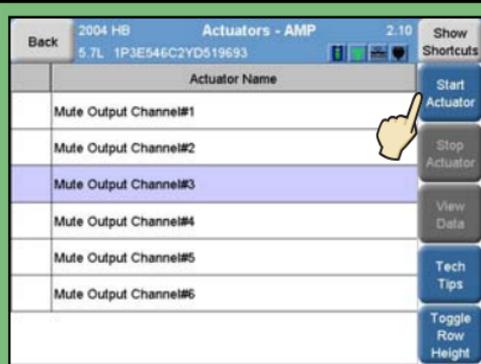
STEP 6

Touch an option

Select a way to start the actuator.

Sparkplug icon shows that actuator has started.

7 Set Customer Preferences 7

STEP 1

Touch **Vehicle Preparation**

Vehicle Preparation shows a list of preparations.

If not on Home screen, touch **Show Shortcuts**, then **Home,** then **Vehicle Preparation.**
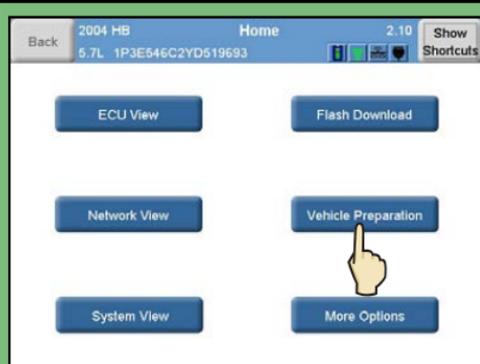
STEP 2

Touch a preparation name

Touch scroll arrows to browse list.

Touch column names to sort list.
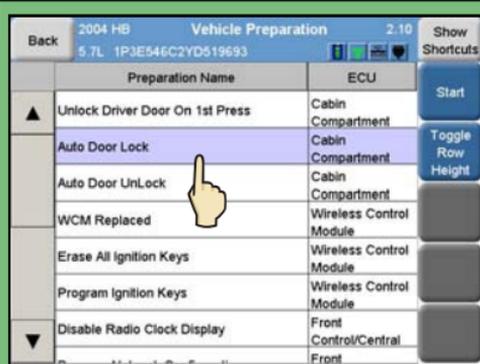
STEP 3

Touch **Start**

Start shows the preparation wizard.

Touch **Cancel** to stop and return to list.

STEP 4

Follow wizard steps

Touch **Next** after completing each step.

Touch **Finish** after completing last step.
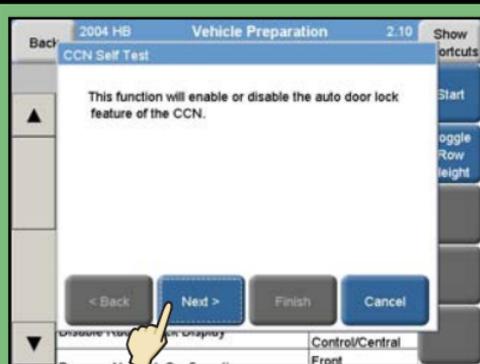
⑧ Download Flash Updates ⑧

STEP 1

Obtain Update Kit

The StarSCAN update kit contains a CD-ROM, a USB storage device, and a USB adapter. You can use the kit with TechCONNECT or a PC.
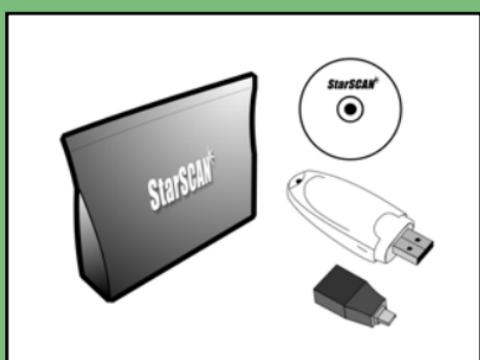
STEP 2

Insert CD-ROM

Insert CD-ROM into TechCONNECT or PC. Software starts automatically.

Click **Controller Flash.**

STEP 3

Follow wizard steps

Wizard downloads update and stores it on USB device.

Click **Next** after completing each step. Touch **Finish** after completing last step.
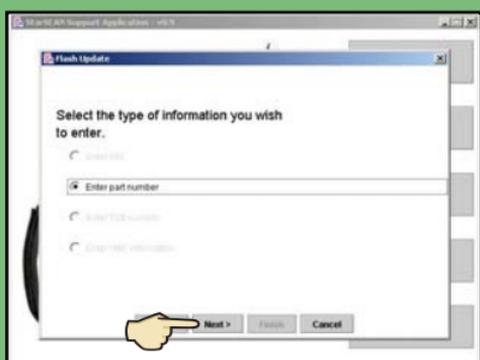
STEP 4

Connect USB device

Remove USB device from TechCONNECT / PC.

With tool powered off, connect USB device to StarSCAN tool using supplied adapter.
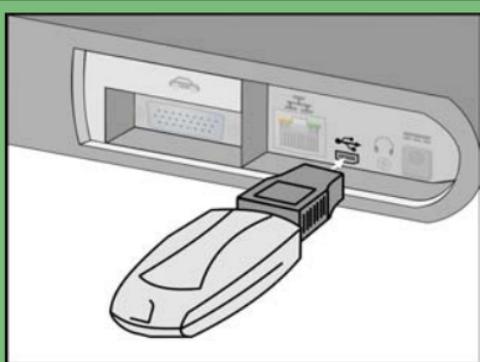
⑧ Download Flash Updates ⑧

STEP 5

Turn on StarSCAN tool

Turn on StarSCAN tool with USB storage device connected.

Touch **Flash Download** to start flash file wizard.

STEP 6

Follow wizard steps

Touch **Next** after completing each step.

Touch **Finish** after completing last step.
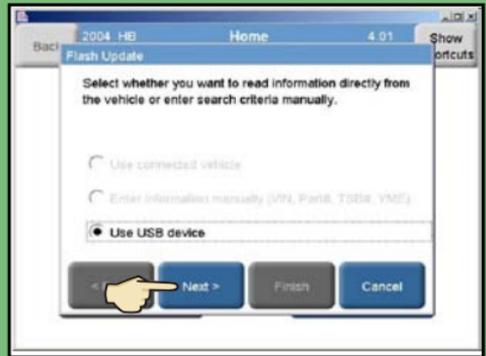
STEP 7

Download file to scan tool

Touch a flash file, then touch **Download to Scantool.**

STEP 8

Touch **Close**

Wait for download to finish, then touch **Close.**
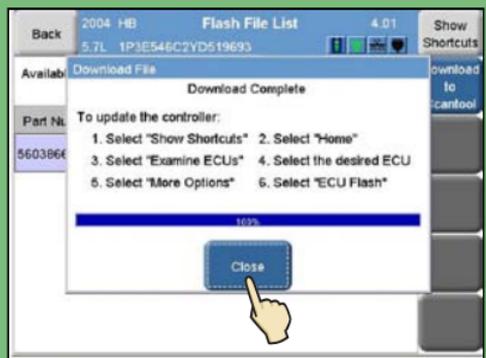
STEP 1

Touch **ECU View**

ECU View shows a list of ECUs.

If not on Home screen**,** touch **Show Shortcuts**, then **Home,** then **ECU View.**

STEP 2

Touch an ECU

Touch scroll arrows to browse list.

Touch column names to sort list.
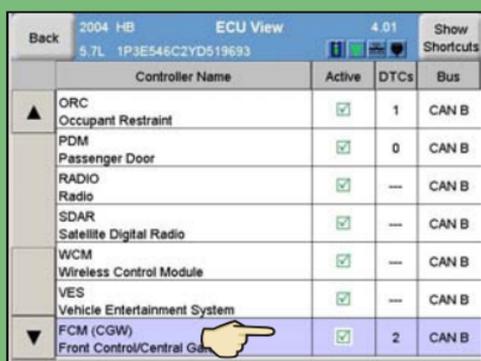
STEP 3

Touch **More Options**

More Options shows a list of buttons.
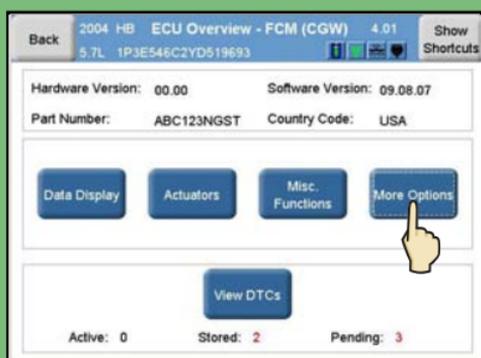
STEP 4

Touch **ECU Flash**

ECU Flash shows a list of available flash files for the current ECU.

STEP 5

Touch a flash file

Touch the flash file you want to use to update the ECU.
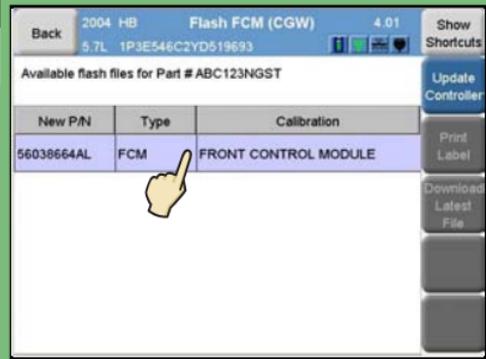
STEP 6

Touch **Update Controller**

Update Controller begins the process of updating the ECU with the flash file you selected.
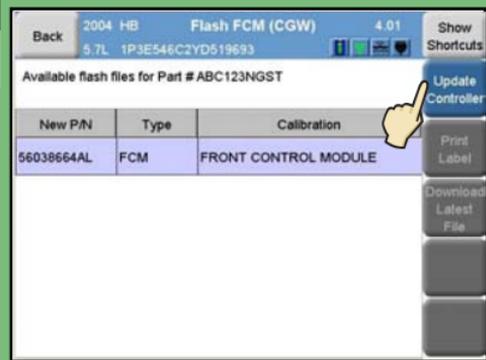
STEP 7

Touch **OK**

OK shows the list of flash files.

STEP 1

Touch **More Options**

More Options shows a list of buttons.

If not on Home screen, touch **Show Shortcuts**, **Home,** then **More Options.**

STEP 2

Touch **Custom Display**

Custom Display shows a list of custom display choices.

Touch column names to sort list.

STEP 3

Touch **Create New Display**

Create New Display displays a list of ECUs.
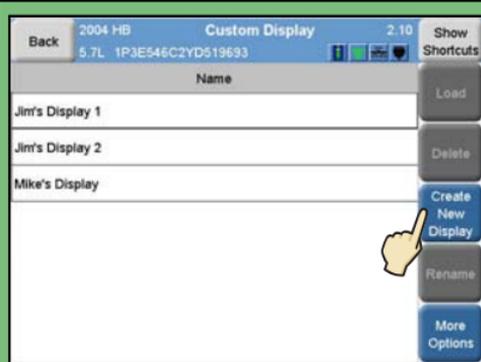
STEP 4

Touch an ECU

ECU shows a list of DDEs (data elements) within that ECU.

Touch column names to sort list.

STEP 5

Touch desired DDEs

Checkmarks indicate DDEs to display.

Repeat Steps 4 and 5 for all desired ECUs and DDEs.
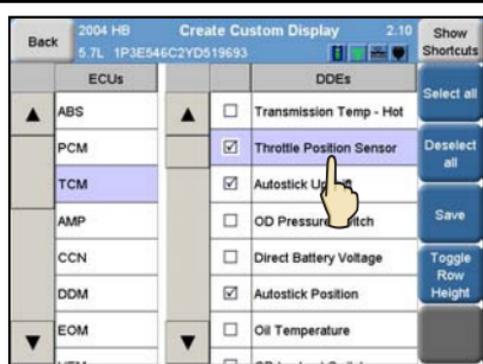
STEP 6

Touch **Save**

Touch **Show Keyboard** to enter name of new custom display.

Touch **Save** to confirm name.
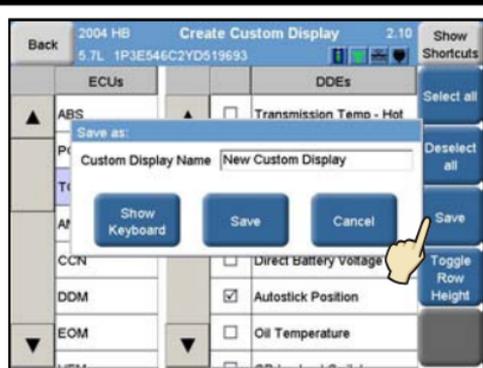
STEP 7

Type name of new display

Touch **Backspace** to delete letters.

Touch **Enter,** then **Save** to close keyboard and save name.

STEP 8

Touch a custom display

Touch **Load** to view display.
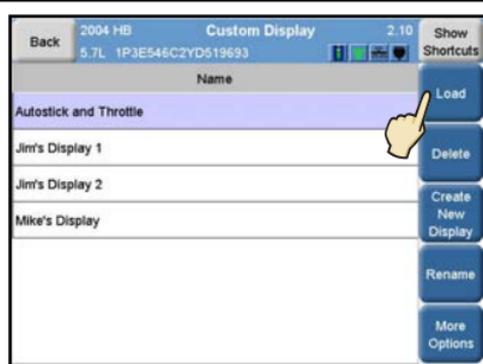
PART 1

Connect power cable

Connect power cable to charge battery or use tool when not connected to vehicle.

Battery will not charge with tool power off. Battery may need up to 4 hours to charge fully.
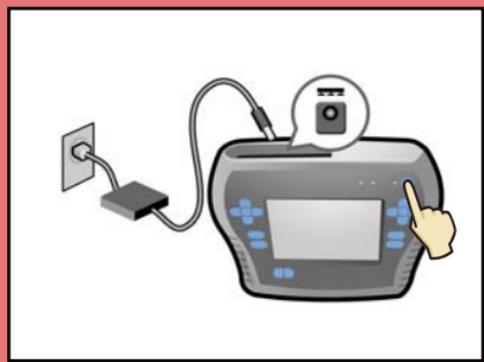
PART 2

Connect vehicle cable

Press vehicle cable connector firmly into jack.

Tighten screws on connector to lock cable into place.
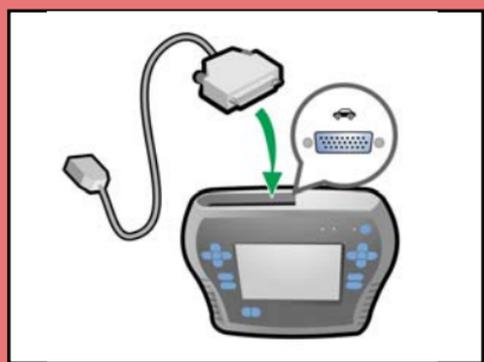
PART 3

Connect network cable

Use network (Ethernet) cable to connect scan tool to dealership network.

Press network cable into network jack until it clicks.
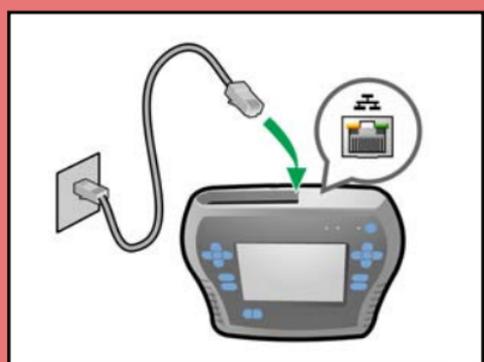
PART 4

Connect USB cable

Use USB cable to connect scan tool to PC or other peripheral devices.

Press USB cable firmly into USB jack.
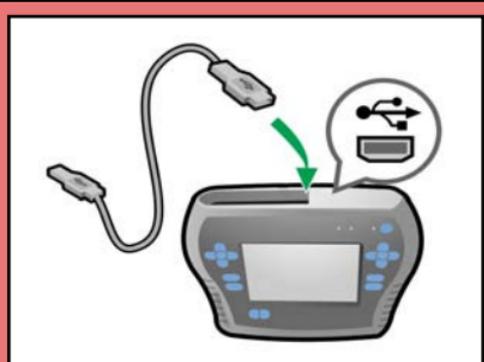
STEP 1

Obtain Update Kit

The StarSCAN Update Kit contains a CD-ROM, a USB storage device, and a USB adapter. The kit works with TechConnect or a PC**.**
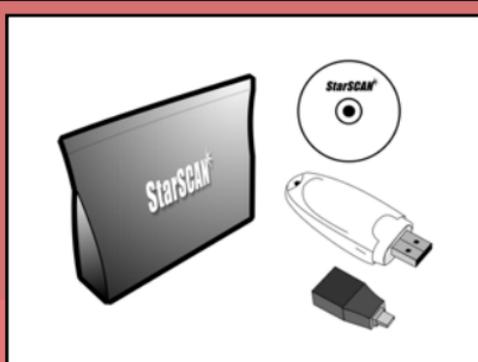
STEP 2

Insert CD-ROM

Insert the CD-ROM into TechConnect or PC. The StarSCAN software starts automatically.

Click **Software Updates.**

STEP 3

Follow wizard steps

Wizard downloads update and stores it on USB device.

Click **Next** after completing each step. Click **Finish** after completing last step.

Select the software update type and version you would like to save to the USB device, and press Next.

Update Type: System

Version: 0.94

Next >   Finish   Cancel

STEP 4

Connect USB device

Remove USB device from TechConnect / PC.

With tool powered off, connect USB device to StarSCAN tool using supplied adapter.
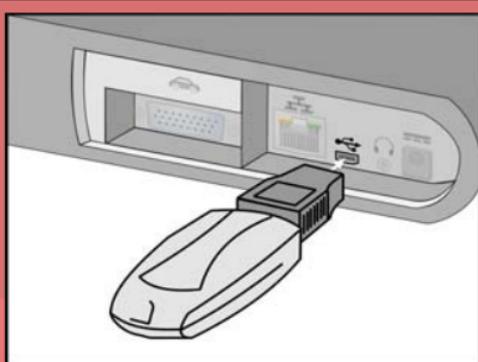
STEP 5

Connect DIN cable

Connect DIN cable to the scan tool and your shop's MDS2 power supply
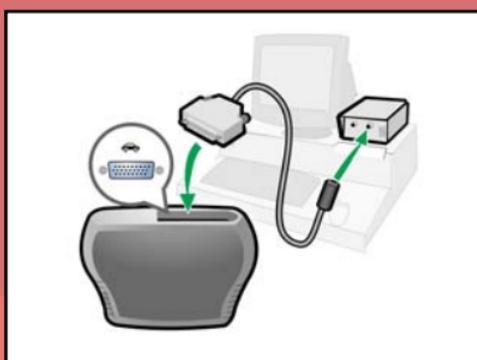
STEP 6

Turn on StarSCAN tool

Turn on StarSCAN tool with USB storage device connected.

Software will update automatically.

STEP 7

Turn off StarSCAN tool

After software update finishes, press and hold power button for 5 seconds.

Remove USB storage device.

STEP 1

Press both **SHIFT** buttons

Pressing both **SHIFT** buttons at same time shows the System Menu.

Remember to turn on scan tool before beginning.

STEP 2

Touch **V (down arrow)**

V (down arrow) moves menu cursor to Calibrate touchscreen.

Press **ENTER** to start calibration.

System Menu
- Run self-tests
- --> Calibrate touchscreen
- Restart main application
- Shutdown system
- Scripts
- Done

STEP 3

Follow calibration steps

Touch red crosshairs as instructed on screen.

Use stylus for better precision, but finger also may be used.

Touch Panel Calibration

Touch top left

STEP 4

Check motion tracking

Drag stylus or finger around screen.

Calibration is complete at end of 5-second countdown.

Tracking motion for 5 seconds.

14 Care of the StarSCAN Tool 14
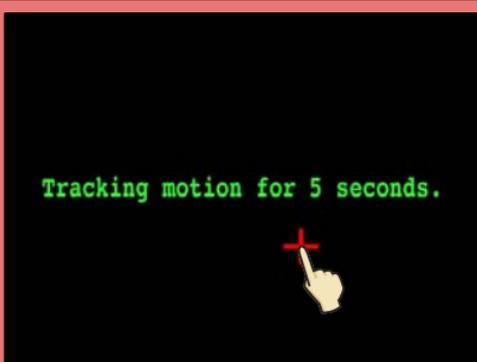
PART 1

Follow standard guidelines

The StarSCAN tool has been designed to operate in a typical shop environment, but treating it with care will ensure its long life.

Clean the tool regularly and avoid long-term contact with harsh materials or temperatures.

Avoid using StarSCAN tool for long periods in temperatures above 104° F (40° C).

PART 2

Care of the touch screen

Use a clean (damp) non-abrasive cloth towel and glass cleaner (such as Mopar Window Cleaner) to clean the touchscreen surface when necessary.

Apply the cleaning solution to the towel rather than directly to the touchscreen.

PART 3

Care of the enclosure

Use a clean (damp) non-abrasive cloth towel and a mild cleaning solution to clean the enclosure's surface.

Apply cleaning solutions to the towel rather than directly to the tool enclosure.

PART 4

Cautions and warnings

Do not allow the StarSCAN tool to come into contact with strong solvents such as throttle body cleaner, brake cleaner, contact cleaner, xylene, or acetone.

Avoid exposure to brake fluid, antifreeze, and petroleum products. If exposed, remove all traces of the chemical as described above.

Avoid contact of the tool's case with high temperatures.

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