



IDST (Isuzu Diagnostic Service Tool) User Guide Table of Contents

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- Show Firmware Version

1. Precautions

Read and observe the following precautions while using the IDST:

- Always perform machine testing in an environment that is safe.
- ANSI standard safety glasses should be worn.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Exhaust gases are poisonous: Operate the vehicle in a well ventilated work area.
- If the machine is mobile, block the wheels and never leave the machine unattended while running tests.
- Do not connect or disconnect any test equipment while the ignition is on or the engine is running.
- Keep the IDST tool dry, clean, and free from oil/water or grease. Use a mild detergent on a clean cloth to clean the outside of the tool, when necessary.

2. IDST Parts

Battery Cable



USB Cable



IDST Module and DLC Connector (attached)



Full Kit



3. Using the Tool

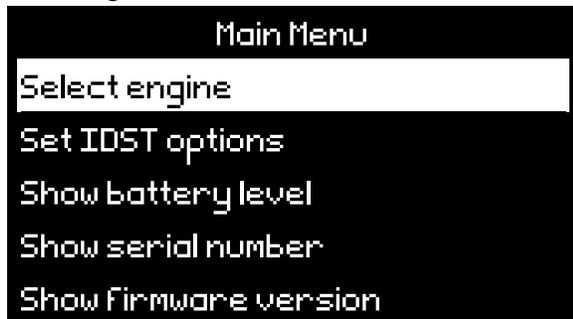
1. Turn ignition power to “Off.”
2. Locate the 16 pin Data Link Connector (DLC).
3. If the IDST display does not power on automatically, supply power with the battery connection cables, part number BJMP01.
4. The display will illuminate and display the following 5 menu items:
 - Select Engine
 - Set IDST Options
 - Show Serial Number
 - Show Battery Level
 - Show Firmware Version
5. Turn ignition to “On” for testing

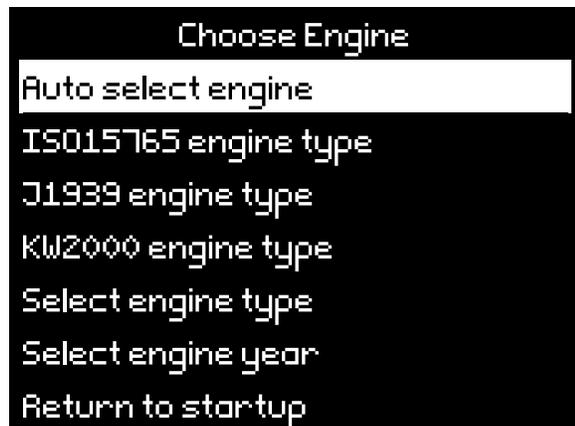
Select Engine

1. When Select Engine is selected from the menu with the SEL button, the applicable engine can be selected automatically, by communication type (ISO15765/J1939/KW2000), by engine type (4HK1, 6HK1, 6UZ1, etc.), or by engine year.

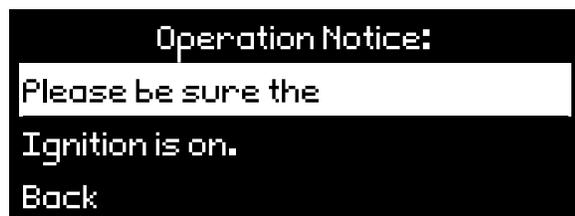
DTC readout and DTC clear will be covered in the next section.

- A. Using the Auto Select function to make the engine selection.

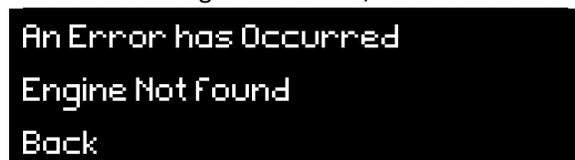




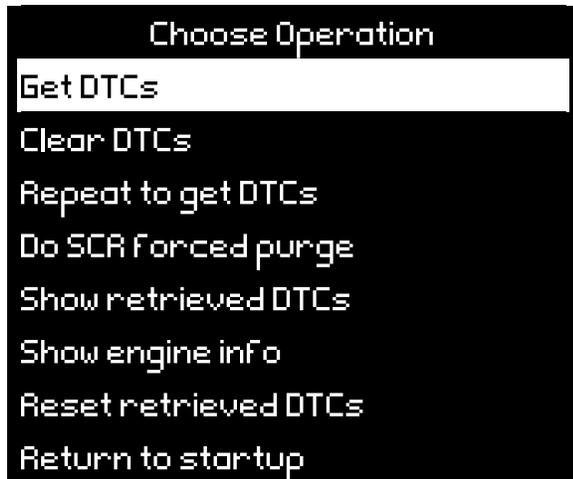
In addition to the Auto Select Engine function, engines can be selected by communication protocol, engine type or engine year.



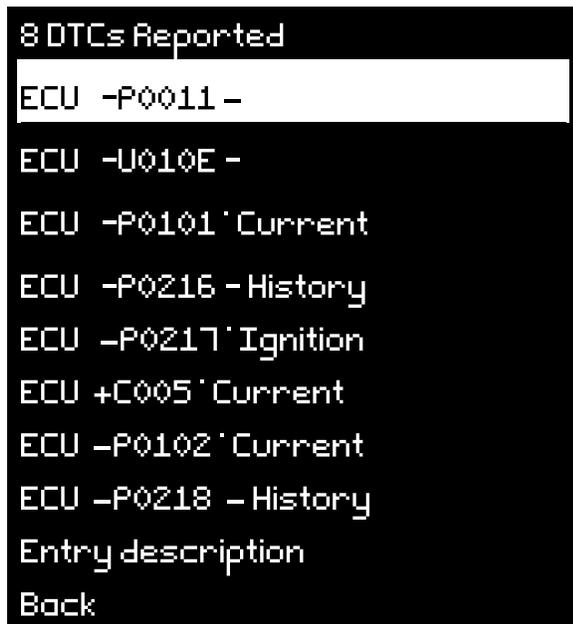
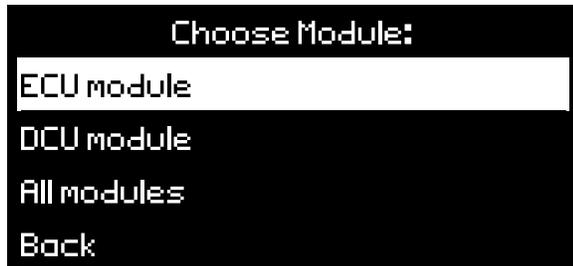
If there is an engine mismatch, or the unit is not connected correctly, the following screen will display.



DTC Readout



Follow the progression as listed above for engine selection. Once "Please be sure the Ignition is on." is selected, the screen displayed at left will appear.



When a DTC is selected, the description for that DTC will be displayed.



"A" Camshaft
Position – Timing
Over-Advanced or
System Performance
(Bank 1)

To return to the main menu, scroll down and press Back or the arrow on the left of the keypad.

DTC Clear

Choose Operation
Get DTCs
Clear DTCs
Repeat get DTCs
Do SCR forced purge
Show retrieved DTCs
Show engine info
Reset retrieved DTCs
Return to startup

Choose Module:
ECU module
DCU module
All modules
Back

Operation Notice.
Cleared DTCs
Back

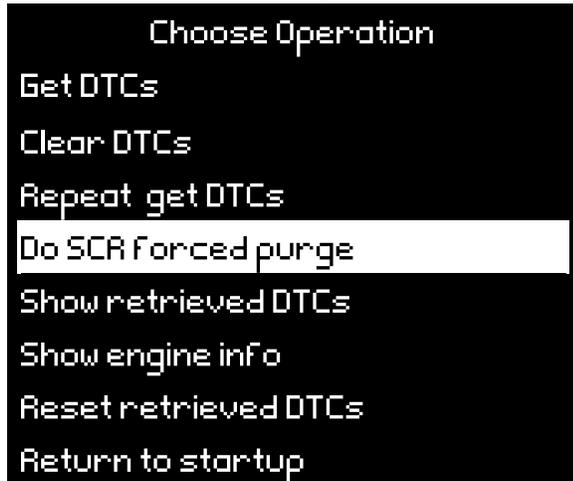
Once Cleared DTCs is pressed, the user will be returned to the previous menu.

Do SCR Forced Purge

The IDST is equipped with a function to initiate a Forced Purge for engines equipped with Selective Catalyst Reduction (SCR) emissions control. Under certain low-load, low ambient temperature operating conditions,

the SCR catalyst system may not reach temperature to fully purge or the engine may be shut down prior to completion.

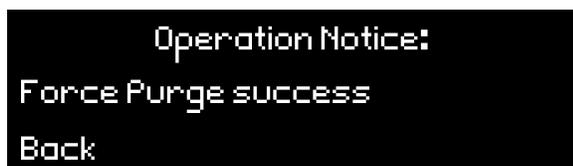
Select "Do SCR Forced Purge"



Confirmation of command success will be displayed



The relevant data parameters will be displayed, including coolant temperature and DPD Mode. The purge will start when conditions are correct, including coolant temperature at 158°F. The timer will count up to 780,000ms. Purge complete. If the purge will not initiate or will not complete, the engine may require additional diagnostics or service.



The following functionality is also available with the Get DTCs and Clear DTCs functionality explained above. These functions include:

- Repeat get DTCs: Continuously repeats getting the DTCs (useful for trouble shooting).
- Show retrieved DTCs: Displays the DTCs that were captured during the last retrieval operation.
- Show engine info: Displays details for the selected vehicle module.

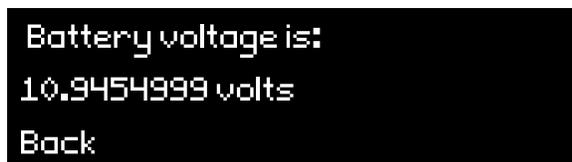
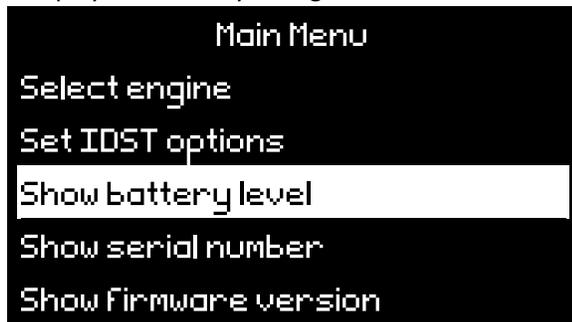
- Reset retrieved DTCs: Clears the DTCs that were captured during the last retrieval operation

Set IDST Options

The functions found under IDST Options are primarily for engineering purposes and should only be used for that reason. They are not covered in this user guide.

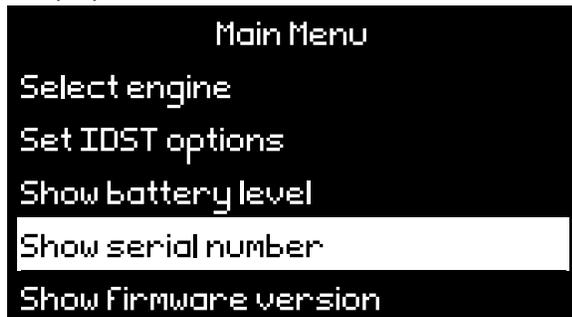
Show Battery Level

Displays the battery voltage level.



Show Serial Number

Displays the IDST unit serial number. This serial number can only be viewed. It cannot be changed.



IDST Serial Number:

IDST0002

Back

Show Firmware Version

Displays the applicable firmware version.

Main Menu

Select engine

Set IDST options

Show battery level

Show Firmware version

Firmware version is:

12/15/2016 1.1.104.1

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