



# **Software for HINO Vehicles Instruction Manual**

DENSO CORPORATION

## IMPORTANT

**Product Name: DST-i software for HINO Vehicles**

**Number of License: One**

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#### **6. Arbitration**

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# Preface

Thank you for purchasing **DST-i** software for HINO Vehicles (hereinafter called "DST-i software for HINO Vehicles").

Before using the DST-i software for HINO Vehicles, read this document carefully so that you can use it correctly and safely.





The DST-i software for HINO Vehicles consists of the Hino Diagnostic eXplorer (hereinafter called "HinoDX") interface for **DST-i** (hereinafter called "DST-i") and Hino brand vehicle specific diagnosis software (for models with LCD only).

This software cannot be used on the hardware other than the DST-i and for diagnosis of a vehicle other than Hino brand.

## For safe usage

- This product shall be used by an automobile professional engineer who has been appropriately trained and has such the skill. The following safety messages described in this instruction manual provide the cautions in using this product and prompt to obey them.
- Since a variety of work procedure, technologies, tools, parts, etc. as well as mechanic's skill are used and involved in the diagnosis and maintenance/service of vehicle, various results are predicted and it is impossible to provide a comprehensive set of advice and safety messages that can cover all such the states. Therefore, it is the duty for an automobile professional engineer to have an adequate knowledge of the diagnosis system. It is also important to perform a work in an appropriate manner not to impair the safety of your own and other persons in a work area, and also the safety of a vehicle to be diagnosed and relevant devices through utilization of these safety messages to perform appropriate diagnosis and maintenance.
- It is assumed as the precondition for use of this product that a user has a sufficient knowledge of vehicle system. The adequate understanding of vehicle system principles as well as the operation method of this product is required to use this product appropriately, safely and correctly.








This document uses symbols for warnings, cautions, and prohibitions. These symbols and their meanings are as follows. Please make sure you fully understand the meanings of these symbols before reading the rest of this document.

 <b>WARNING</b>	Indicates an item for which incorrect handling can result in a major accident involving death or serious injury.
 <b>CAUTION</b>	Indicates an item for which incorrect handling can lead to injury or damage to property. Under certain conditions, more serious consequences may result.
 <b>PROHIBITED</b>	Indicates a prohibited method of handling.
 <b>MANDATORY</b>	Indicates a mandatory method of handling and a forcible item.

## WARNING and CAUTION for handling this product



















### WARNING


















- Perform a diagnosis and a repair work according to the precautions included in "For safety diagnosis".  
*Reference: Page v For safety diagnosis (For safe usage)* 
- Refer to safety messages and applied diagnosis procedures for a vehicle to be diagnosed or those provided from manufactures of devices before using this product, and obey those instructions.  
Failure to obey the precautions could result in an accident. 
- Do not perform any work while the vehicle is running.  
Doing so could result in an accident. 
- Route the cable in such the manner that the cable does not tangle a worker or an operation control unit.  
Failure to do so could result in an accident. 
- Always observe the following rules. Failure to do so can result in heat generation, fire, blowout, or electrical shock.
  - Do not disassemble or alter this product. 
  - Do not connect this product to anything with a voltage exceeding the ratings of this product. 
  - Do not connect the probe to any parts applied by a voltage exceeding the ratings of this product. 



## CAUTION

- Block the wheels of the vehicle with chocks before carrying out work.  
Failure to do so could result in an accident. 
- When working anywhere hardly visible, for example under the vehicle, always make the vehicle ignition or key switch OFF to ensure that the vehicle cannot be moved.  
Failure to do so could result in an accident. 
- When you start the engine or move the vehicle, be sure to do it after confirming that no worker is found around the vehicle. 
- More than 100 V of high voltage is generated in the ECU and injector. Take extra care for electric shock during work. 
- Disconnect the ground wire of the battery first and then remove a part. 
- Turn the vehicle ignition or key switch OFF before connecting or disconnecting the connector or the electric terminal of the vehicle unless otherwise specified.  
Failure to do so may cause damage on the vehicle side electric circuit. 
- Wear safety glasses and protective clothing during work near the rotating part.  
Parts flying by the rotating engine may occur and it may cause an accident. 
- Do not remove the radiator cap unless the engine is cool.  
Failure to do so may be splashed with the high temperature and highly pressurized engine coolant. 
- Do not touch the high temperature area such as exhaust system, manifold, engine, radiator, etc. with a bare hand.  
Failure to do so may cause a burn injury. 
- Wear gloves when touching and handling the high-temperature engine and parts. 
- Do not route the cable of this product over the engine compartment, especially if the engine is running.  
Failure to follow this instruction could result in an accident by catching up the cable and clothes with the belt and pulley. 
- Do not work anywhere that water could come in contact with the equipment. 
- Do not drop this product or subject it to a strong impact. 
- Do not lift or drag this product by holding the cable connected to this product. When moving or installing, move this product by holding with hands. 
- Do not apply the load causing stress to the connector connected to this product.  
Failure to do so could result in an accident. 
- Inspect for adhesion of foreign materials to or pin breakage of each connector of this product before use. 

## For safety diagnosis

- Do not place a metallic tool on the battery. 
- Do not sparkle near the battery.  
Failure to do so may cause ignition of battery gas. 
- Keep a lighted cigarette, spark, open flame and other ignition source away from the vehicle and the battery. 
- Be sure to turn the ignition or key switch OFF and turn the headlight and other accessories OFF before disconnect the battery cable. 
- Be sure to disconnect the ground wire of the battery before maintenance of the electric system and components. 
- The battery can flow the high short current that can melt a metallic accessory. Remove accessories such as ring, bracelet and watch before starting work near the battery.  
Failure to do so could result in an accident. 
- A worker handling the battery and workers near the battery must wear safety glasses and protection gloves. 
- Prepare a large volume of fresh water and soap before handling the battery. If the skin, clothing or eye is splashed with the battery fluid, wash the applicable portion with soapy water for 10 minutes. Then, have an examination and treatment at a medical facility immediately. 
- Do not rub or touch your eye directly during work near the battery.  
Failure to do so may cause a burn injury on your eye and skin from the battery fluid. 
- Do not connect between the battery terminals with a jumper cable/wire or a tool. 
- Do not ground an electric terminal that is or may be a part of the electric system.  
Failure to do so may cause the damage of vehicle side electric circuit. 
- When working with starting the engine, perform the work at the place where is equipped with the ventilation equipment that can exhaust the emission gas to the outside forcibly.  
The engine emission gas contains odorless lethal gas, which may cause death or severe disease due to addiction. 
- Do not use this product in the environment that accumulates explosive vapor, such as an underground pit or a closed room. 
- Do not smoke or strike a match during work.  
Failure to do so may cause ignition of battery gas or explosive gas. 
- Do not use a flammable spray or a flushing spray during diagnosis. 
- Prepare the dry type chemical fire extinguisher for a fire by gasoline, chemicals and electric sparks in order to fight an accidental explosion and a consequential fire. 
- Workers and neighbor workers must wear safety glasses and protective clothing.  
Fuel, oil vapor, high temperature vapor, poisonous emission gas, acid, refrigerant and other foreign substances may be emitted due to failure and malfunction of the vehicle system. 

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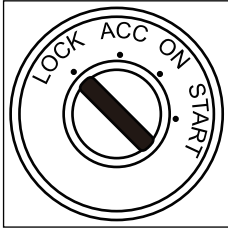
# 1 Starting and Ending

## 1-1 Models without LCD

<Starting>

### NOTE

- Confirm that the vehicle ignition or key switch is LOCK.

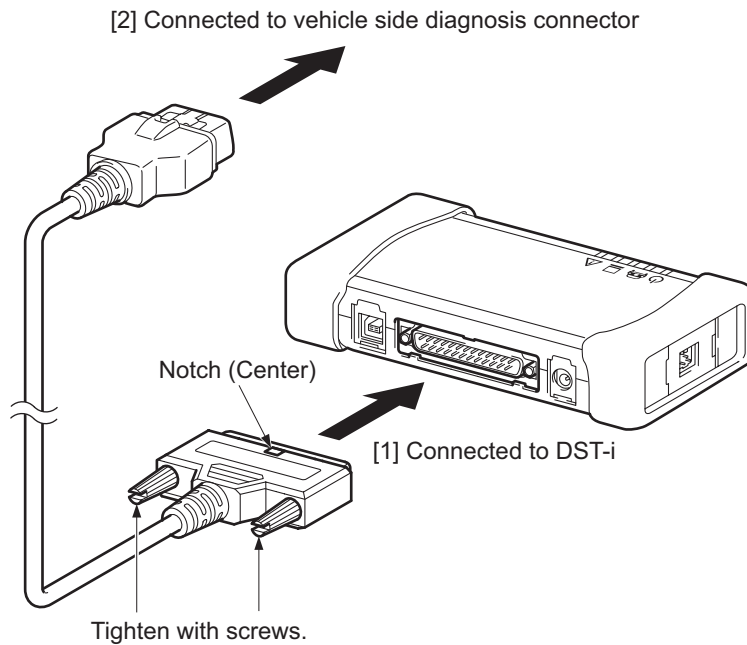


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### CAUTION

- Perform the connection of step 1 and step 2 according to the order.

1. Connect the datalink cable to DST-i.
2. Connect the datalink cable to the vehicle side diagnosis connector.



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### CAUTION

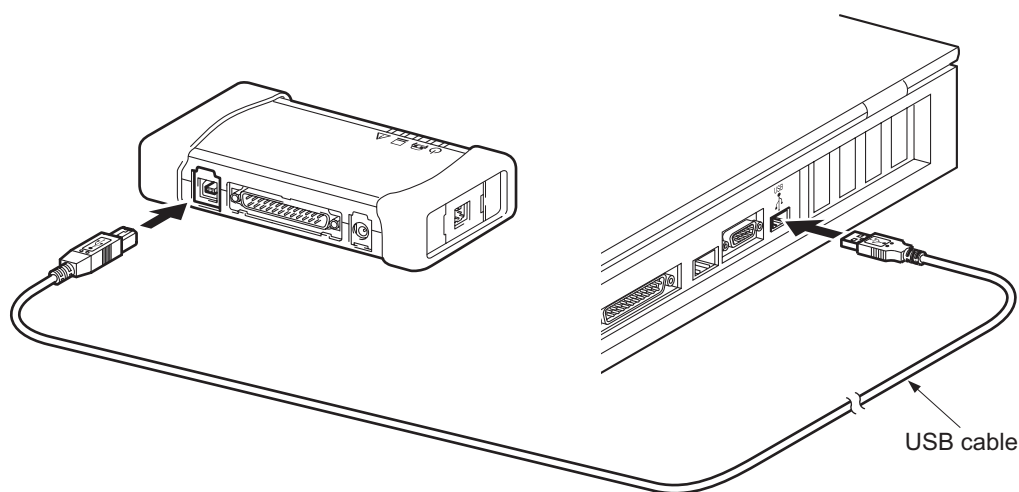
- Do not use a datalink cable other than the dedicated datalink cable supplied with the DST-i.
- Inspect the cable before connecting for adhesion of foreign materials or damage to the connector pins.
- When connecting cables, take care to connect them gently and at the proper angle and orientation.

If the connection is attempted with the cable upside down or at an angle, there is a risk of damaging the connector terminal and causing malfunctions of the vehicle and/or the DST-i.

- Do not apply a load to the connector connected with the DST-i.

Applying too much force could result in breakage of the connector terminal and it could cause malfunctions or failure of the vehicle and/or the DST-i.

### 3. Connect the DST-i and a PC with the USB cable.



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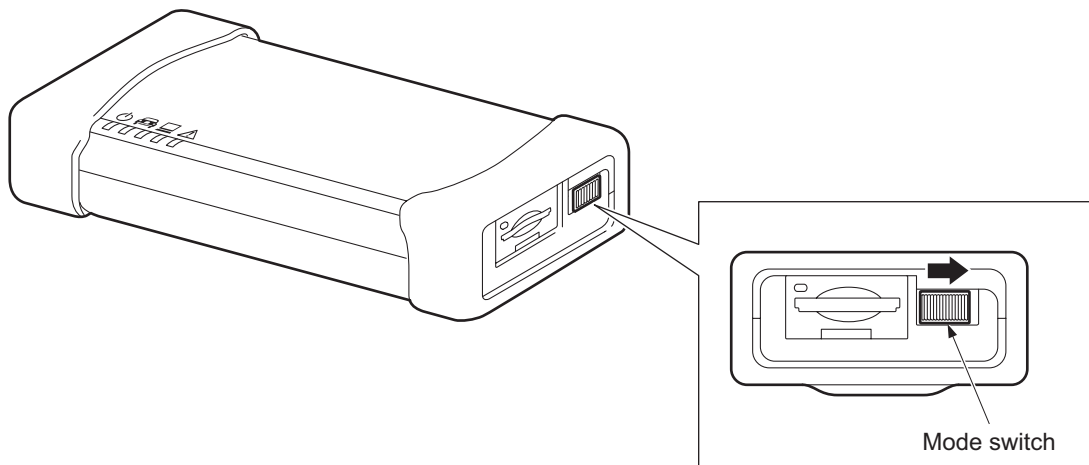
### NOTE

- When the USB communication with the PC is established, the PC communication (USB) indicator on DST-i lights or flashes in green.
- When establishing the connection with the Bluetooth communication function on the models with Bluetooth, USB cable connection is not needed.
- If connecting with a PC with the Bluetooth communication, communication setup must be performed with the DST-i configuration tool.
- When the Bluetooth communication with the PC is established, the PC communication (Bluetooth) indicator on DST-i lights or flashes in blue.
- When connecting the models with Bluetooth to a PC with the USB cable, the USB communication has the top priority in the communication between a PC.
- When communication way is changed from USB to Bluetooth while communicating, remove the USB cable with the HinoDX finished.

### CAUTION

- You must install the USB driver software on your PC before you connect the USB cable to your PC.
- Inspect the cable before connecting for adhesion of foreign materials or damage to the connector pins.
- When connecting the USB cable to the DST-i and the PC, take care to connect them gently and at the proper angle and orientation.  
If the connection is attempted with the cable upside down or at an angle, there is a risk of damaging the connector terminal and causing malfunctions to the PC and/or the DST-i.
- Do not apply a load to the connector connected with the DST-i.  
Applying too much force could result in breakage of the connector terminal and it could cause malfunctions or failure of the PC and/or the DST-i.

- 4.** Turn the mode switch of DST-i ON.

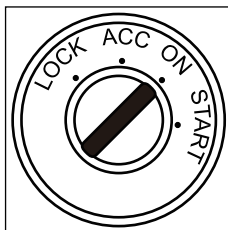


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### NOTE

- When turning the mode switch ON, the power indicator of DST-i turns green.

- 5.** Turn the vehicle ignition or key switch ON.



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### NOTE

- When the vehicle ignition or key switch position is OFF or ACC, communication with the vehicle cannot be established. Turn the vehicle ignition or key switch ON or start the engine when using the DST-i.

- 6.** Activate the HinoDX on a PC.

7. Confirm that [DST-i] is displayed as the interface in the HinoDX screen.  
If [DST-i] is not displayed as the interface, perform the setting of HinoDX according to the procedure included in "To set DST-i as the interface with HinoDX".

*Reference: Page 13 To set DST-i as the interface with HinoDX (Chapter 1 Starting and Ending)*

<Ending>

1. Close the communication with the vehicle via the HinoDX.

### CAUTION

- Do not turn the mode switch of DST-i OFF or disconnect the datalink cable from the DST-i during the active test. The diagnosed actuators could be stopped still in the drive status. Make sure to execute the ending procedure after finishing the active test.

2. Turn the mode switch of DST-i OFF.
3. Turn the vehicle ignition or key switch OFF.
4. Disconnect the USB cable from the DST-i and the PC.

### CAUTION

- When disconnecting the USB cable from the DST-i and the PC, gently pull it straight out of the connector.  
Pulling the cable at an angle can break the connector terminal and cause malfunctions of the PC and/or the DST-i.
- When pulling out the cable, hold it by the connector section and never by the cord section.  
Pulling on the cord section can break the lines in the cable.

### CAUTION

- When disconnecting the datalink cable from the vehicle side diagnosis connector, go after turn the vehicle ignition or key switch OFF.
- Perform the disconnection of step 5 and step 6 according to the order.

5. Disconnect the datalink cable from the vehicle side diagnosis connector.

### CAUTION

- When disconnecting the datalink cable from the DST-i and the vehicle side diagnosis connector, gently pull it straight out of the connector.  
Pulling the cable at an angle can break the connector terminal and cause malfunctions of the vehicle and/or the DST-i.
- When pulling out the cable, hold it by the connector section and never by the cord section.  
Pulling on the cord section can break the lines in the cable.

6. Disconnect the datalink cable from DST-i.

## 1-2 Models with LCD

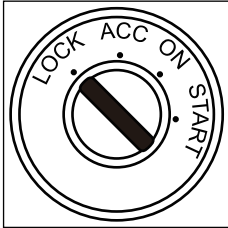
For the models with LCD, the following two using methods are available: "use as the interface of HinoDX" and "use the DST-i for diagnosis as the standalone single unit without connection with a PC".

### Using as the interface of HinoDX

<Starting>

#### NOTE

- Confirm that the vehicle ignition or key switch is LOCK.

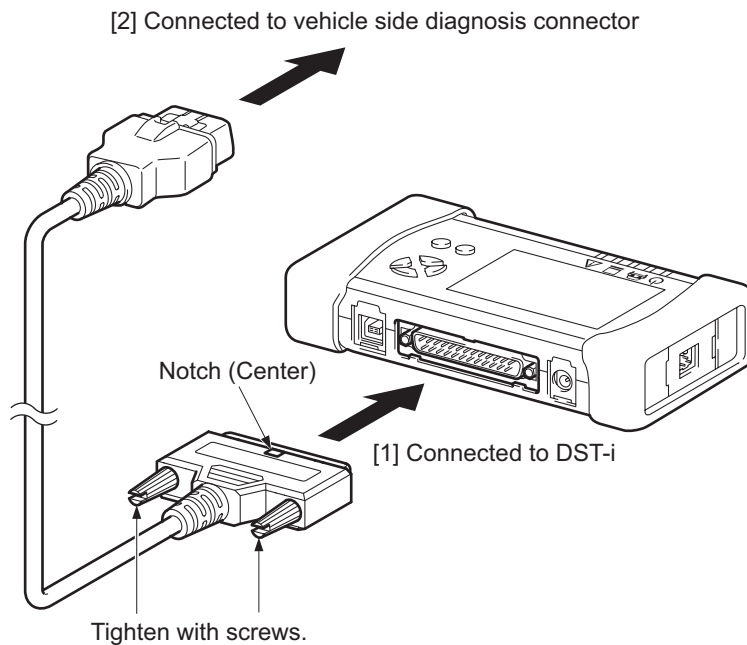


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#### CAUTION

- Perform the connection of step 1 and step 2 according to the order.

1. Connect the datalink cable to DST-i.
2. Connect the datalink cable to the vehicle side diagnosis connector.



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### CAUTION

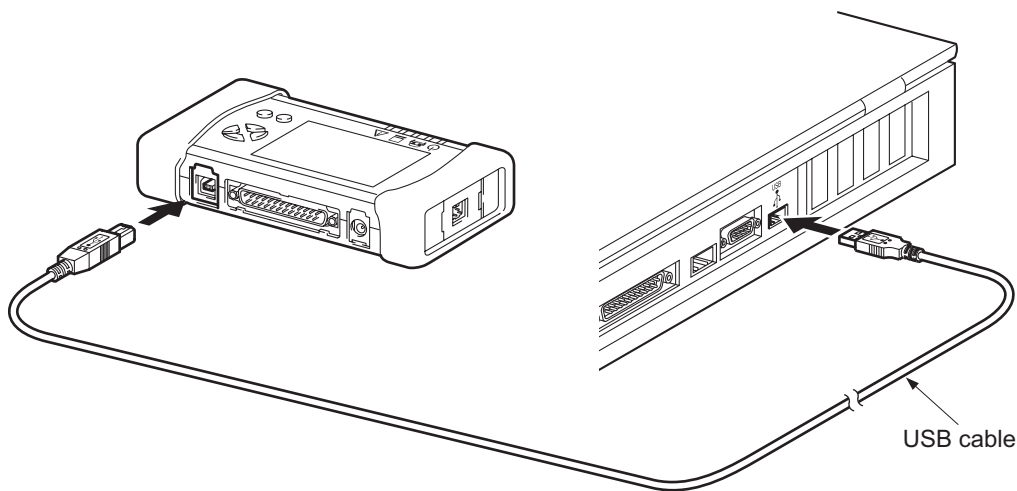
- Do not use a datalink cable other than the dedicated datalink cable supplied with the DST-i.
- Inspect the cable before connecting for adhesion of foreign materials or damage to the connector pins.
- When connecting cables, take care to connect them gently and at the proper angle and orientation.

If the connection is attempted with the cable upside down or at an angle, there is a risk of damaging the connector terminal and causing malfunctions of the vehicle and/or the DST-i.

- Do not apply a load to the connector connected with the DST-i.

Applying too much force could result in breakage of the connector terminal and it could cause malfunctions or failure of the vehicle and/or the DST-i.

### 3. Connect the DST-i and a PC with the USB cable.



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### NOTE

- When the USB communication with the PC is established, the PC communication (USB) indicator on DST-i lights or flashes in green.
- When establishing the connection with the Bluetooth communication function on the models with Bluetooth, USB cable connection is not needed.
- If connecting with a PC with the Bluetooth communication, communication setup must be performed with the DST-i configuration tool.
- When the Bluetooth communication with the PC is established, the PC communication (Bluetooth) indicator on DST-i lights or flashes in blue.
- When connecting the models with Bluetooth to a PC with the USB cable, the USB communication has the top priority in the communication between a PC.
- When communication way is changed from USB to Bluetooth while communicating, remove the USB cable with the HinoDX finished.

### CAUTION

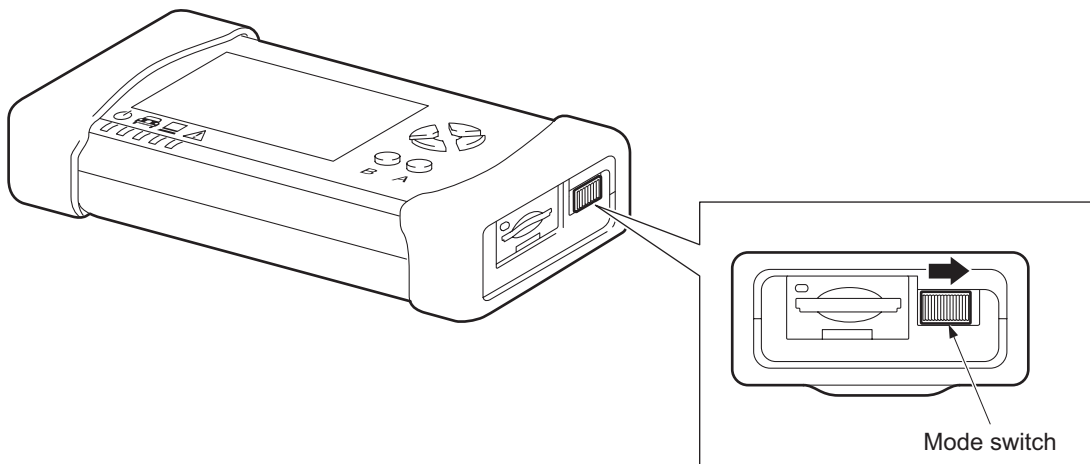
- You must install the USB driver software on your PC before you connect the USB cable to your PC.
- Inspect the cable before connecting for adhesion of foreign materials or damage to the connector pins.
- When connecting the USB cable to the DST-i and the PC, take care to connect them gently and at the proper angle and orientation.

If the connection is attempted with the cable upside down or at an angle, there is a risk of damaging the connector terminal and causing malfunctions to the PC and/or the DST-i.

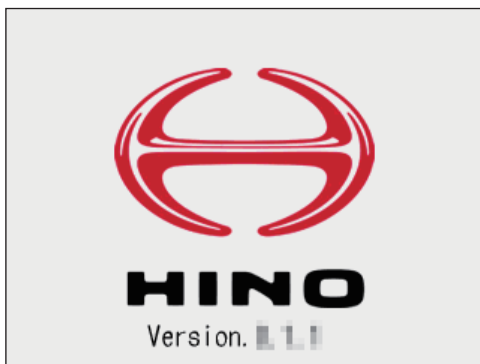
- Do not apply a load to the connector connected with the DST-i.

Applying too much force could result in breakage of the connector terminal and it could cause malfunctions or failure of the PC and/or the DST-i.

- 4.** Turn the mode switch of DST-i ON.  
The Opening screen is displayed.



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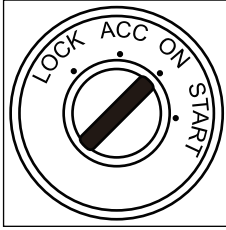
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Opening screen

### NOTE

- When turning the mode switch ON, the power indicator of DST-i turns green.

5. Turn the vehicle ignition or key switch ON.



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### NOTE

- When the vehicle ignition or key switch position is OFF or ACC, communication with the vehicle cannot be established. Turn the vehicle ignition or key switch ON or start the engine when using the DST-i.

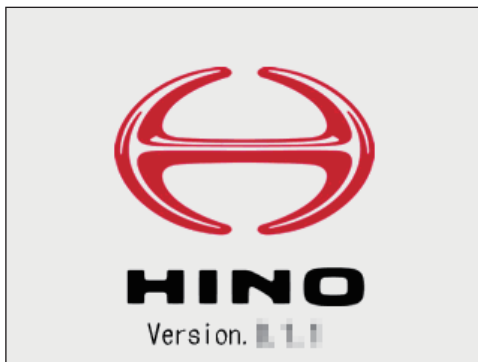
6. Activate the HinoDX on a PC.

7. Confirm that [DST-i] is displayed as the interface in the HinoDX screen.

If [DST-i] is not displayed as the interface, perform the setting of HinoDX according to the procedure included in "To set DST-i as the interface with HinoDX".

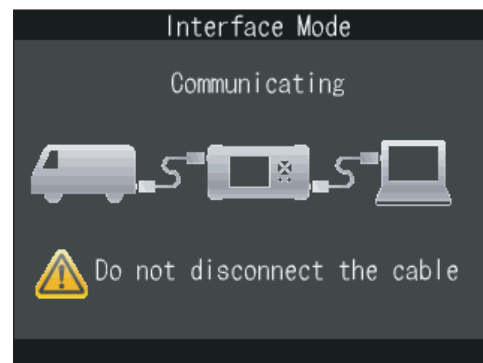
*Reference: Page 13 To set DST-i as the interface with HinoDX (Chapter 1 Starting and Ending)*

When the DST-i starts to communicate with a PC, the screen is changed automatically from the Opening screen to the Interface Mode screen.



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Opening screen



T01925E

Interface Mode screen

### NOTE

- The DST-i cannot be used as the interface via other than the Opening screen. Restart the DST-i to display the Opening screen, and then use the DST-i as the interface.
- Key operations of the DST-i become disabled after the screen is changed to the Interface Mode screen.
- To use the DST-i software for HINO Vehicles from the Interface Mode, restart the DST-i.



### <Ending>

1. Close the communication with the vehicle via the HinoDX.

#### **CAUTION**

- Do not turn the mode switch of DST-i OFF or disconnect the datalink cable from the DST-i during the active test. The diagnosed actuators could be stopped still in the drive status. Make sure to execute the ending procedure after finishing the active test.

2. Turn the mode switch of DST-i OFF.
3. Turn the vehicle ignition or key switch OFF.
4. Disconnect the USB cable from the DST-i and the PC.

#### **CAUTION**

- When disconnecting the USB cable from the DST-i and the PC, gently pull it straight out of the connector.  
Pulling the cable at an angle can break the connector terminal and cause malfunctions of the PC and/or the DST-i.
- When pulling out the cable, hold it by the connector section and never by the cord section.  
Pulling on the cord section can break the lines in the cable.

#### **CAUTION**

- When disconnecting the datalink cable from the vehicle side diagnosis connector, go after turn the vehicle ignition or key switch OFF.
- Perform the disconnection of step 5 and step 6 according to the order.

5. Disconnect the datalink cable from the vehicle side diagnosis connector.

#### **CAUTION**

- When disconnecting the datalink cable from the DST-i and the vehicle side diagnosis connector, gently pull it straight out of the connector.  
Pulling the cable at an angle can break the connector terminal and cause malfunctions of the vehicle and/or the DST-i.
- When pulling out the cable, hold it by the connector section and never by the cord section.  
Pulling on the cord section can break the lines in the cable.

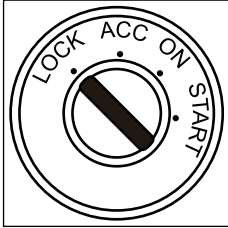
6. Disconnect the datalink cable from DST-i.

## Using DST-i software for HINO Vehicles

<Starting>

### NOTE

- Confirm that the vehicle ignition or key switch is LOCK.

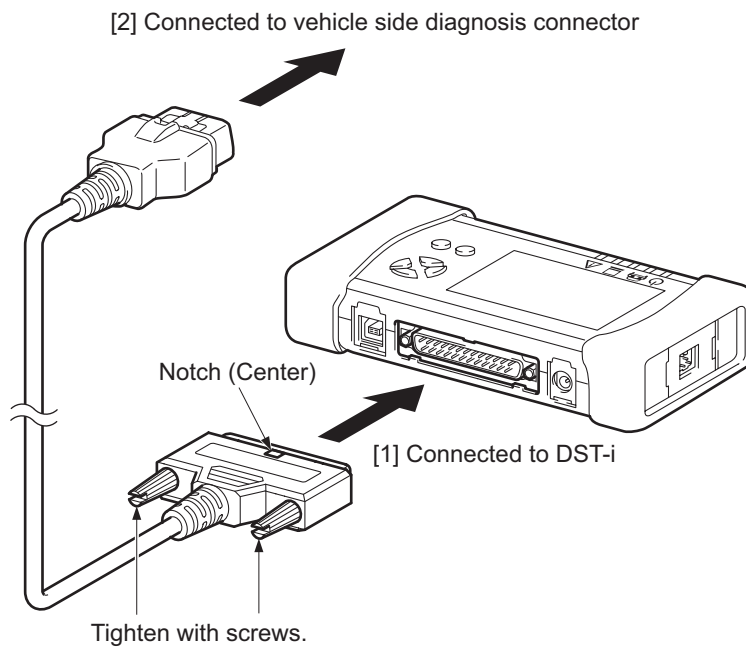


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### CAUTION

- Perform the connection of step 1 and step 2 according to the order.

1. Connect the datalink cable to DST-i.
2. Connect the datalink cable to the vehicle side diagnosis connector.



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### CAUTION

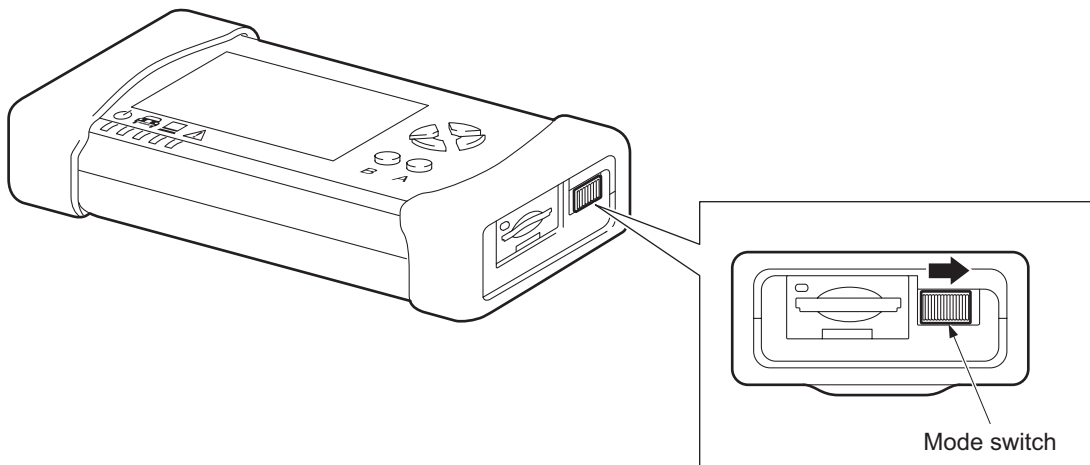
- Do not use a datalink cable other than the dedicated datalink cable supplied with the DST-i.
- Inspect the cable before connecting for adhesion of foreign materials or damage to the connector pins.
- When connecting cables, take care to connect them gently and at the proper angle and orientation.

If the connection is attempted with the cable upside down or at an angle, there is a risk of damaging the connector terminal and causing malfunctions of the vehicle and/or the DST-i.

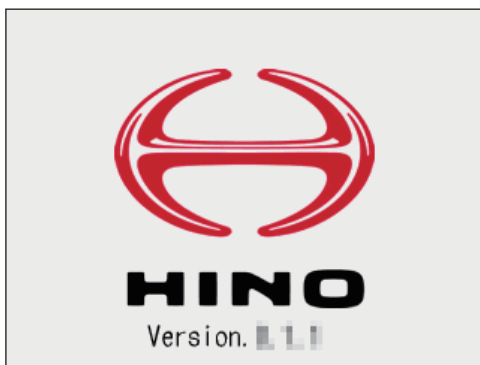
- Do not apply a load to the connector connected with the DST-i.

Applying too much force could result in breakage of the connector terminal and it could cause malfunctions or failure of the vehicle and/or the DST-i.

- 3.** Turn the mode switch of DST-i ON.  
The Opening screen is displayed.



T01897E



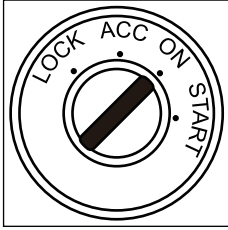
T02959E

Opening screen

### NOTE

- When turning the mode switch ON, the power indicator of DST-i turns green.

4. Turn the vehicle ignition or key switch ON.



T02763Z

### NOTE

- When the vehicle ignition or key switch position is OFF or ACC, communication with the vehicle cannot be established. Turn the vehicle ignition or key switch ON or start the engine when using the DST-i.

<Ending>

1. Close the communication with the vehicle via the DST-i software for Hino Vehicles.

### CAUTION

- Do not turn the mode switch of DST-i OFF or disconnect the datalink cable from the DST-i during the active test. The diagnosed actuators could be stopped still in the drive status. Make sure to execute the ending procedure after finishing the active test.

2. Turn the mode switch of DST-i OFF.
3. Turn the vehicle ignition or key switch OFF.

### CAUTION

- When disconnecting the datalink cable from the vehicle side diagnosis connector, go after turn the vehicle ignition or key switch OFF.
- Perform the disconnection of step 4 and step 5 according to the order.

4. Disconnect the datalink cable from the vehicle side diagnosis connector.

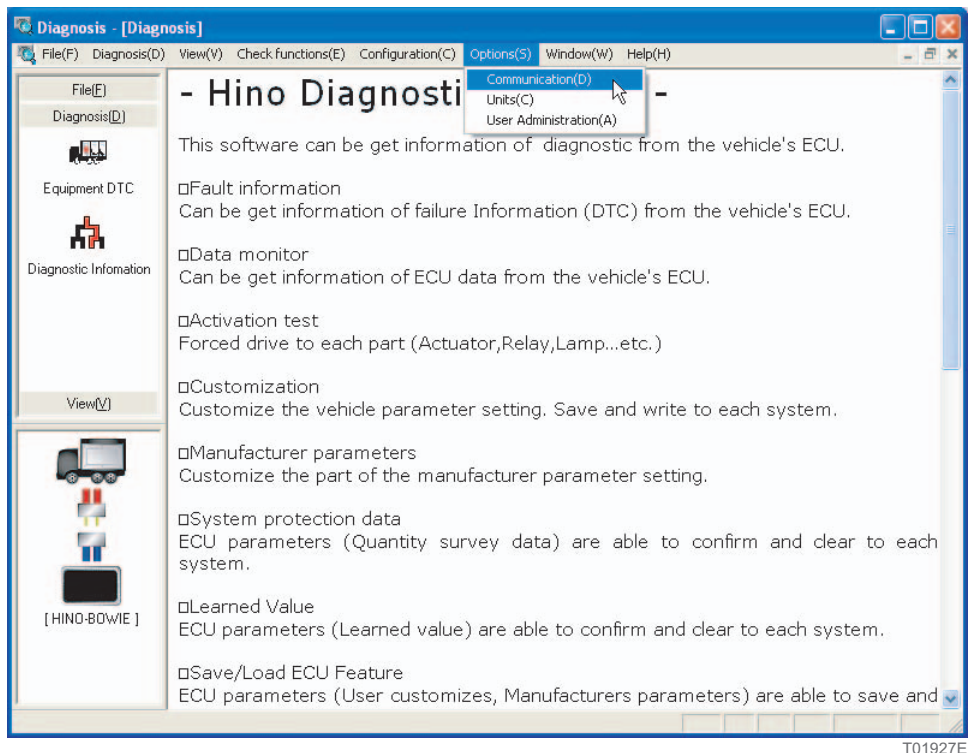
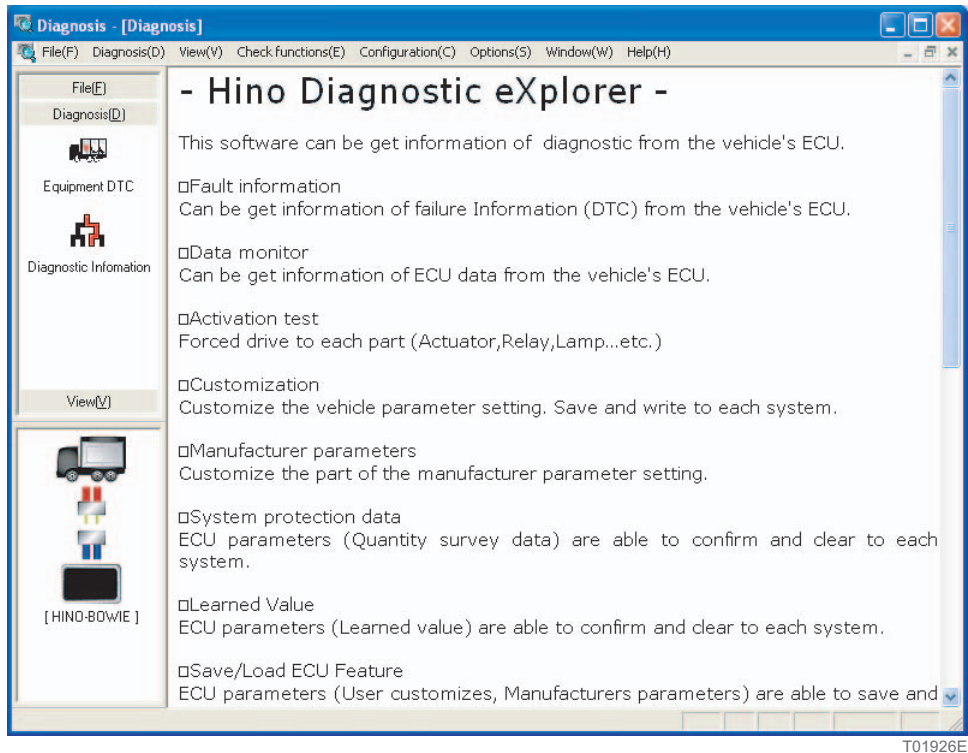
### CAUTION

- When disconnecting the datalink cable from the DST-i and the vehicle side diagnosis connector, gently pull it straight out of the connector.  
Pulling the cable at an angle can break the connector terminal and cause malfunctions of the vehicle and/or the DST-i.
- When pulling out the cable, hold it by the connector section and never by the cord section.  
Pulling on the cord section can break the lines in the cable.

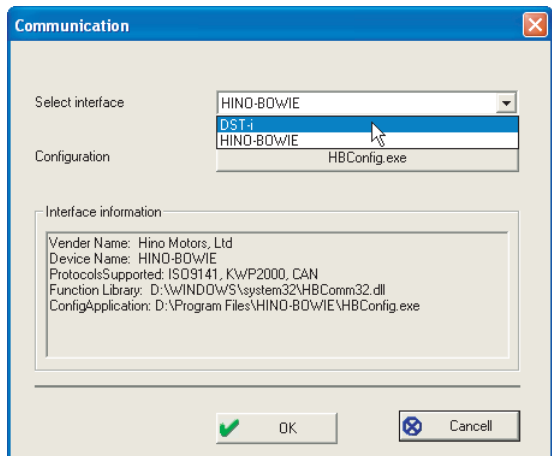
5. Disconnect the datalink cable from DST-i.

## 1-3 To set DST-i as the interface with HinoDX

1. Select "Communication" from "Options" of the menu bar in the diagnosis screen of the HinoDX. The Communication settings screen is displayed.



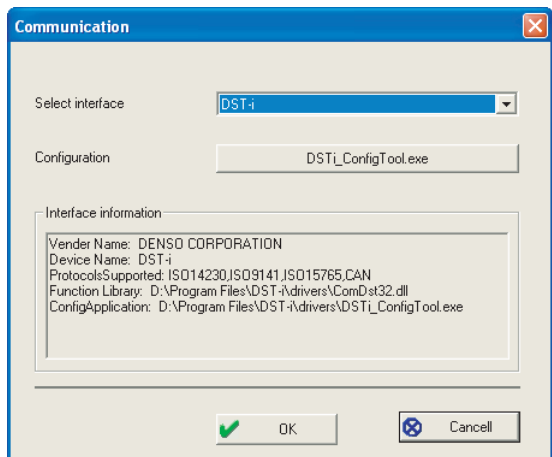
2. Select "DST-i" from the pull-down menu of "Select interface" of the Communication settings screen.



T01928E

Communication settings screen  
(Select from pull-down menu)

3. Confirm that [DST-i] is displayed in "Select interface" of the Communication settings screen and press the OK key.



T01929E

Communication settings screen

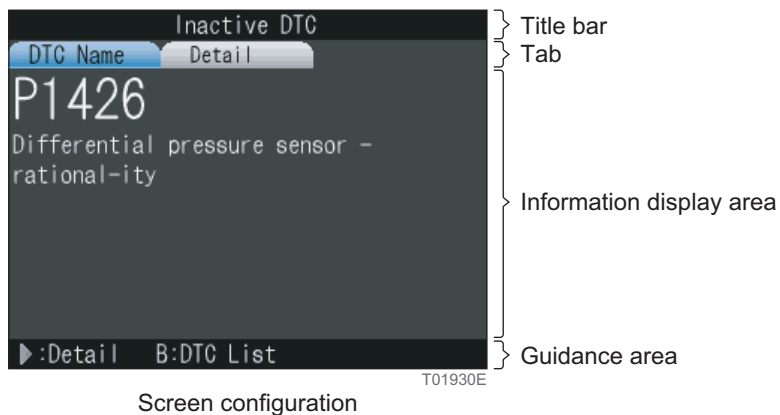
### NOTE

- The setting selected in this screen is retained from then on. No more setting is required from the next activation of HinoDX.

# 2 Operation of DST-i software for HINO Vehicles

## 2-1 Screen configuration

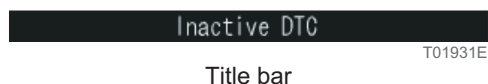
The screen configuration of the DST-i software for HINO Vehicles is shown in the following screen.



Screen configuration

- Title bar

A screen title displayed at present is displayed.



Title bar

- Tab

Selectable items in the screen displayed at present are displayed.



Tab

### NOTE

- Presence/absence of tab and displayed items vary depending on model variation and screen.

- Guidance area

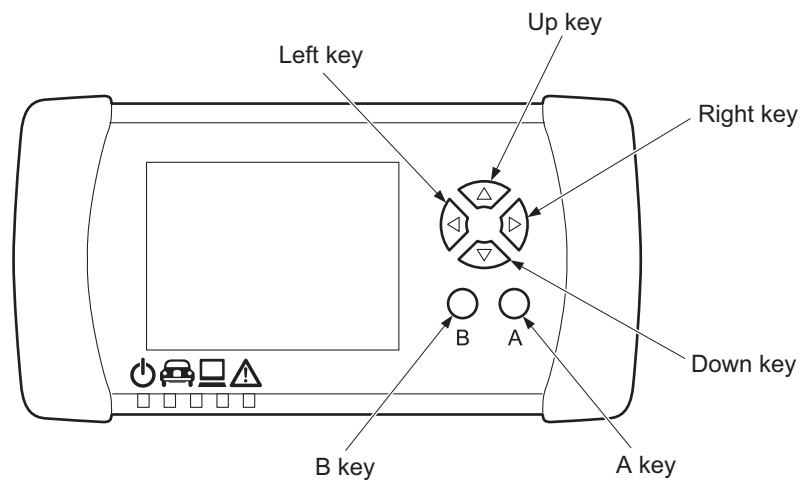
Operation guidance corresponding to the present screen is displayed.



Guidance area

## 2-2 Basic operation

Six operation keys are arranged on the DST-i.



T02469E

The performance of each key vary depending on the screen.

Operate following the operation guidance displayed in the Guidance area.

By pressing the B key, the screen returns to the previous screen unless otherwise the operation guidance is displayed (except some screens).

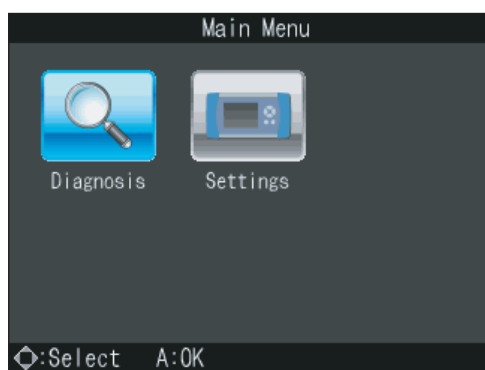
### NOTE

- Transfer to the Opening screen from the Main Menu screen is not available.  
To return to the Opening screen, restart of the DST-i is required.



### 2-3 Main Menu

Main Menu can be displayed by pressing either key when the Opening screen is displayed.



Main Menu screen

#### NOTE

- If destination is set to "Japan" in Settings, the Main Menu screen is displayed in Japanese, and set to "Global", the screen is displayed in English.

When the DST-i software for HINO Vehicles is installed in the DST-i for the first time, the default "Destination" setting is "Global". Therefore, the characters on the screen are displayed in English.

To change to English display, change "Destination" to "Global" in the Destination setting screen.

*Reference: Page 30 To change the destination "Japan" (Display in Japanese) to the destination "Global" (Display in English), follow the procedure below. (Chapter 2 Operation of DST-i software for HINO Vehicles/Settings/Destination setting)*

The table below describes the functions selectable from the Main Menu screen.

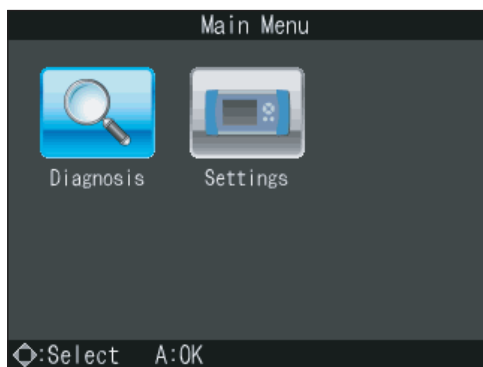
Function	Description
Diagnosis	The functions of reading/clearing of DTC and the utility function can be utilized for vehicle diagnosis and maintenance.
Settings	This function can change and customize the settings of DST-i.

## 2-4 Diagnosis function

### System selection

Select the information of diagnosis target vehicle and its system.

1. Select "Diagnosis" from the main menu, and press the A key.  
The Vehicle Category selection screen is displayed.



Main Menu screen

T01934E



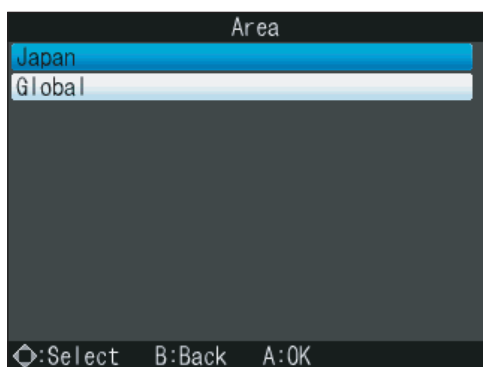
Vehicle Category selection screen

T01972E

### NOTE

- Displayed vehicle category vary depending on the version of DST-i software for HINO Vehicles.

2. Select the vehicle category to be diagnosed in the Vehicle Category selection screen, and press the A key.  
The Area selection screen is displayed.



Area selection screen

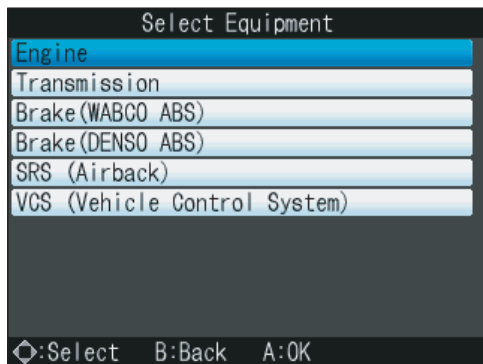
T01973E

### NOTE

- Displayed area vary depending on the version of DST-i software for HINO Vehicles and an option selected in the upper layer menu.

3. Select a sales area code of the diagnosis target vehicle in the Area selection screen, and press the A key.

The Select Equipment screen is displayed.



T01974E

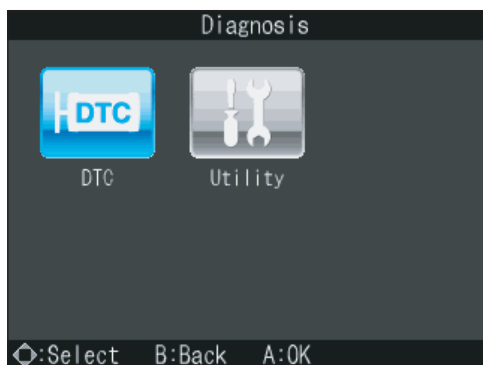
Select Equipment screen

### NOTE

- Displayed system vary depending on the version of DST-i software for HINO Vehicles and an option selected in the upper layer menu.

4. Select a diagnosis target system in the Select Equipment screen, and press the A key.

The Diagnosis menu screen is displayed.



T01938E

Diagnosis menu screen

### NOTE

- Displayed items in the Diagnosis menu screen vary depending on model variation and system.

## Read DTC

DTC is the code that informs user and mechanic of a troubled system and the status of abnormality detected by the self-diagnosis function of the vehicle ECU.

DTC is organized by troubled system, which can be utilized for identification of trouble cause.

The DST-i software for HINO Vehicles can display Active DTC, Inactive DTC and Pending DTC.

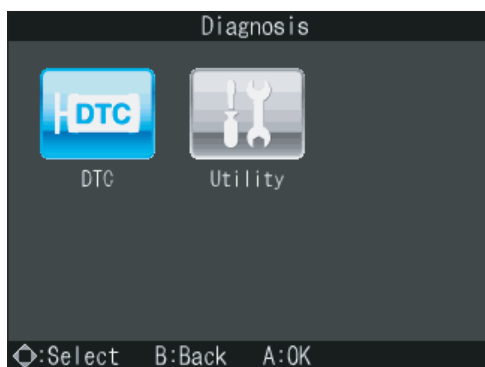
The following table describes each DTC type.

DTC type	Description
Active	DTC indicating a trouble that occurs at present.
Inactive	DTC detected in the past.
Pending	DTC indicating a possible emission related trouble that is not yet detected as DTC.

### NOTE

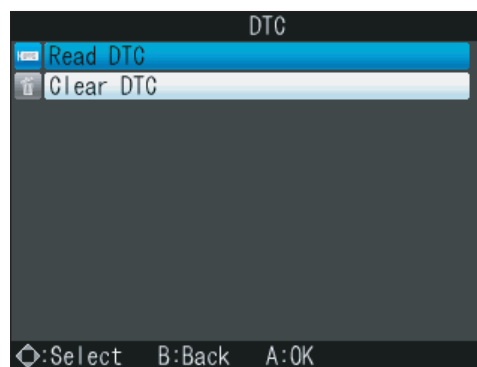
- Supported DTC types vary depending on model variation and system.

- Select "DTC" in the Diagnosis menu screen, and press the A key.  
The DTC menu screen is displayed.



Diagnosis menu screen

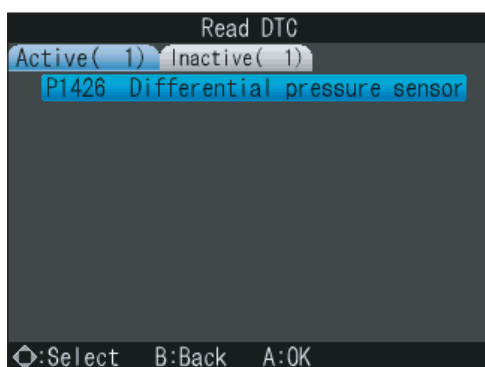
T01938E



DTC menu screen

T01939E

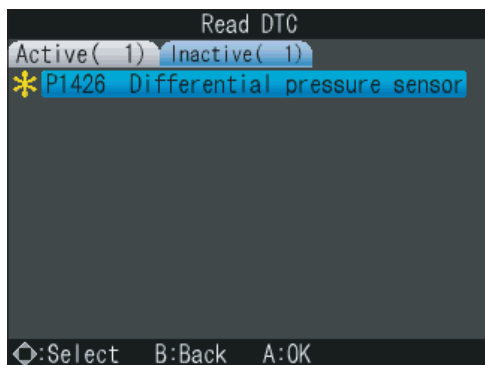
- Select "Read DTC" in the DTC menu screen and press the A key.  
The DTC display screen is displayed.



DTC display screen  
(Active DTC list)

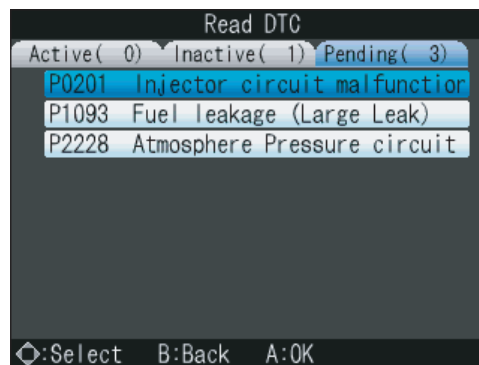
T01940E

3. When the DTC display screen (Active DTC list) is displayed, press the right key. The tab is changed to "Inactive" and the Inactive DTC list is displayed. Then, press the right key when the DTC display screen (Inactive DTC list) is displayed. The tab is changed to "Pending" and the Pending DTC list is displayed.



T01941E

DTC display screen  
(Inactive DTC list)



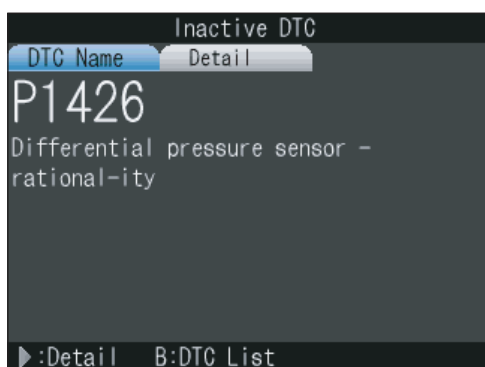
T01942E

DTC display screen  
(Pending DTC list)

### NOTE

- By using the right and left keys, the list display can be changed.
- Supported DTC types vary depending on model variation and system.  
Only the supported DTC type tab and its list can be displayed.

4. Select an arbitrary DTC in the DTC display screen (Inactive DTC list), and press the A key. The Detail DTC display screen is displayed.



T01943E

Detail DTC display screen  
(Trouble details)

5. Press the right key when the Detail DTC display screen is displayed.  
The Detail information (2-digit diagnosis code) is displayed.



Detail DTC display screen  
(Detail information)

### NOTE

- The detail information can be displayed from the DTC display screen (Inactive DTC list) only. However, the detail information may not be displayed depending on model variation and system.
- To return to the DTC menu screen, press the B key by necessary times.

### ■ In case that DTC is not stored

If DTC is not stored in the ECU, the message is displayed in the DTC display screen.

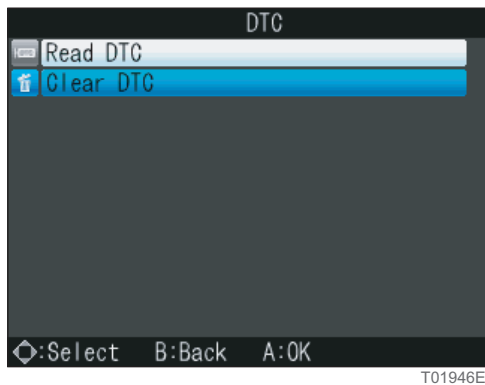


DTC display screen

### Clear DTC

DTC stored in the ECU can be cleared.

1. Select "Clear DTC" in the DTC menu screen and press the A key.  
The Clear DTC screen is displayed.



DTC menu screen



Clear DTC screen

2. Press the A key when the Clear DTC screen is displayed.  
After DTC is cleared, the clear completion message is displayed.



Clear DTC completion screen

3. Press the A key when the Clear DTC completion screen is displayed.  
The screen returns to the DTC menu screen.

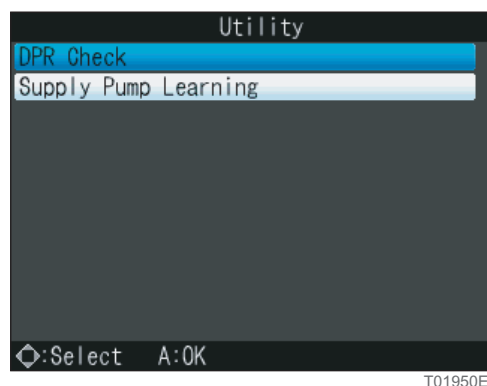
## Utility

In the Utility function, DPR Check and Supply Pump Learning can be performed.

1. Select "Utility" in the Diagnosis menu screen and press the A key.  
The Utility menu screen is displayed.



Diagnosis menu screen



Utility menu screen

2. Select an executed utility in the Utility menu screen and press the A key.  
If "DPR Check" is selected, the DPR Check menu screen is displayed.



DPR Check menu screen

The following table describes the functions selectable from the Utility menu screen.

Function		Description
DPR Check	DPR Status	DPR status can be monitored. Check the necessity of DPR check and cleaning from the DPR status.
	Reset all DPR status	All the DPR status can be reset.
	Forced Regeneration	DPR can be regenerated forcibly.
	Differential Pressure Check	DPR clogging can be checked.
Supply Pump Learning		The learned values stored in the engine ECU can be updated when the supply pump is repaired or replaced.

### NOTE

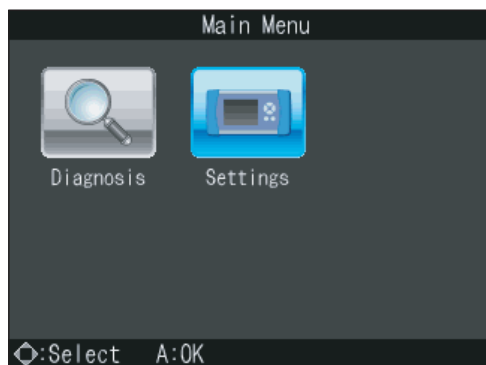
- Available functions vary depending on model variation and system.  
Unavailable functions are not displayed in the menu.



## 2-5 Settings

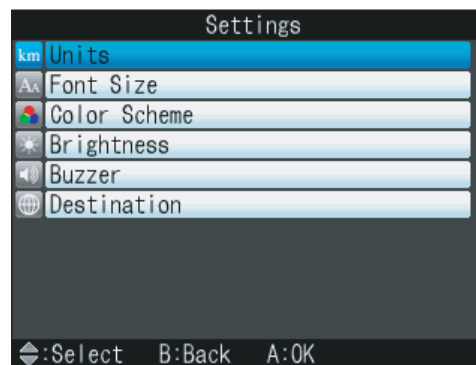
Settings of the DST-i can be changed and customized.

1. Select "Settings" in the Main Menu screen and press the A key.  
The Settings menu screen is displayed.



Main Menu screen

T01952E



Settings menu screen

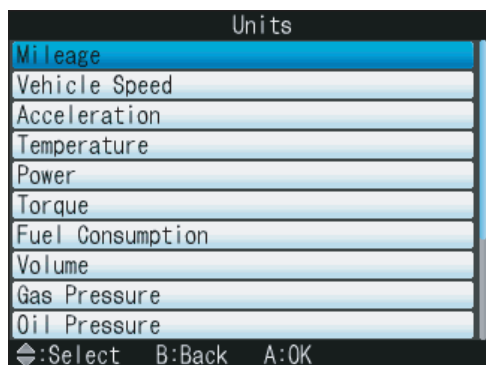
T01953E

2. Select an item to be set in the Settings menu screen and press the A key.  
Setting screen for the selected item is displayed.

### Units setting

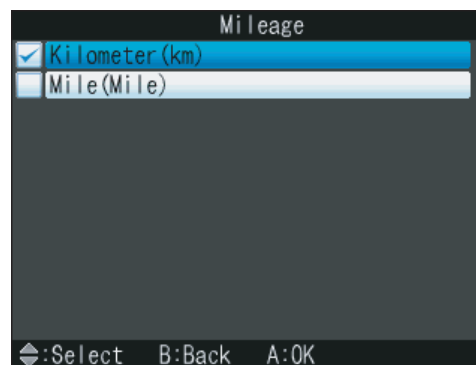
In the Units setting function, the unit per item can be changed.

1. Select an item for unit change in the Item selection screen and press the A key.  
The Unit selection screen is displayed.



Item selection screen

T01954E



Unit selection screen

T01955E

### NOTE

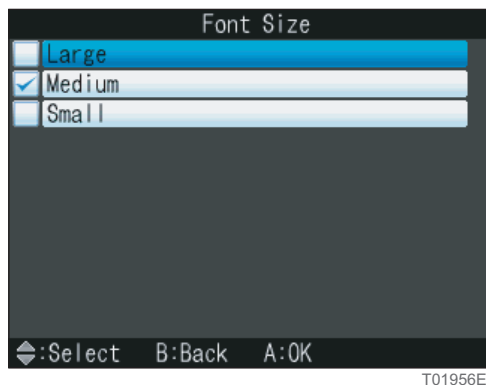
- A check mark is displayed in the checkbox for the currently set unit.
- The setting items shown in the screen image are for reference only, which may differ from the actual screen.

2. Select a unit to be set in the Unit selection screen and press the A key.  
After completion of unit setting, the screen returns to the Item selection screen.

### Font Size setting

In the Font Size setting function, the character size for "Information display area" in the screen can be changed.

1. Select a displayed character font size in the Font Size setting screen and press the A key.  
The character size in the screen is updated in real time.



Font Size setting screen

T01956E

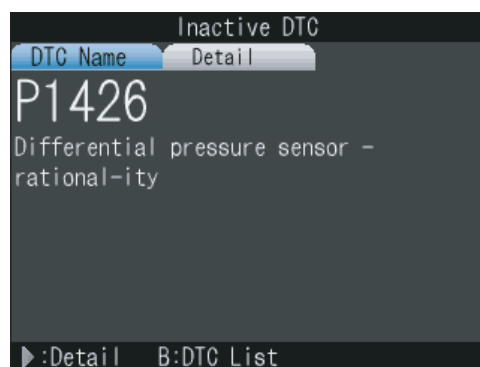
#### NOTE

- A check mark is displayed in the checkbox for the currently set character size.
- Even if the character size is changed, the character size of "Title Bar", "Tab" and "Guidance Area" is not changed.



Example of the screen with font size "Large"

T01957E



Example of the screen with font size "Medium"

T01958E



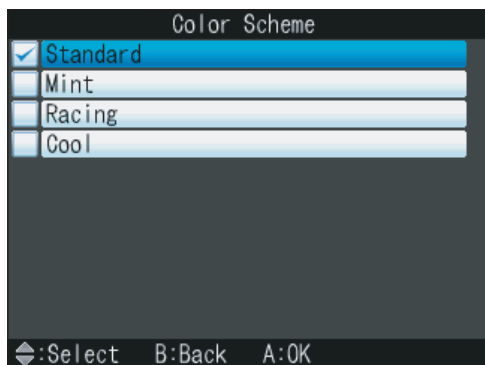
Example of the screen with font size "Small"

T01959E

### Color Scheme setting

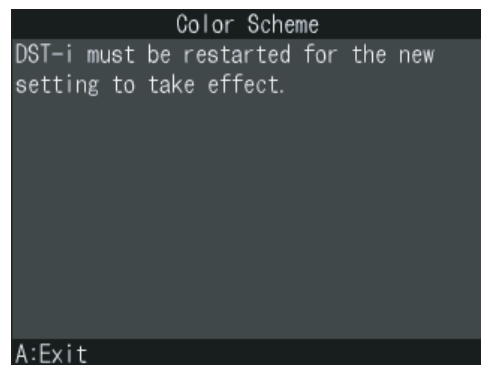
In the Color Scheme setting function, the color arrangement of screen is changed.

1. Select colors to be set in the Color Scheme selection screen and press the A key.



T01960E

Color Scheme selection screen



T01961E

Restart prompt screen

#### NOTE

- A check mark is displayed in the checkbox for the currently set color.
- The selectable color schemes shown in the screen image are for reference only, which may differ from the actual screen.

2. Restart the DST-i.

#### NOTE

- To change the color scheme to the set one, restart of the DST-i is required.

### Brightness setting

In the Brightness setting function, the brightness of the screen backlight can be adjusted.

1. In the Brightness setting screen, adjust to the desired brightness by pressing the right or left key, and confirm it by pressing the A key.  
If pressing the B key instead of A key, the brightness change is cancelled.



Brightness setting screen

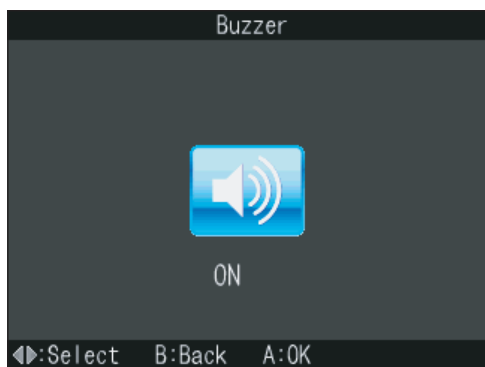
#### NOTE

- The currently set numeric value of brightness is displayed in the screen.

### Buzzer setting

In the Buzzer setting function, ON/OFF of the buzzer sounded at each operation of the DST-i can be set.

1. In the Buzzer setting screen, adjust to the desired setting by pressing the right or left key, and confirm it by pressing the A key.  
If pressing the B key instead of A key, the buzzer setting change is cancelled.



Buzzer setting screen

#### NOTE

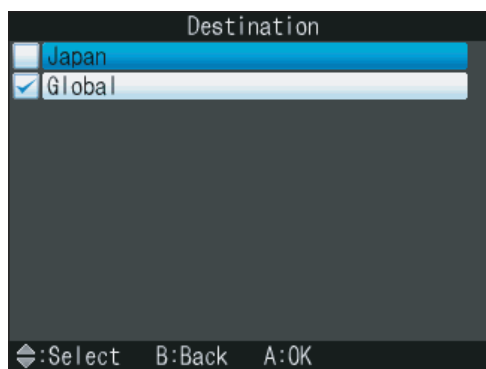
- ON/OFF of the currently set buzzer sound is displayed in the screen.

## Destination setting

In the Destination setting function, the region (destination) using the DST-i can be change. The diagnosable vehicle/system and displayed language are changed according to the destination.

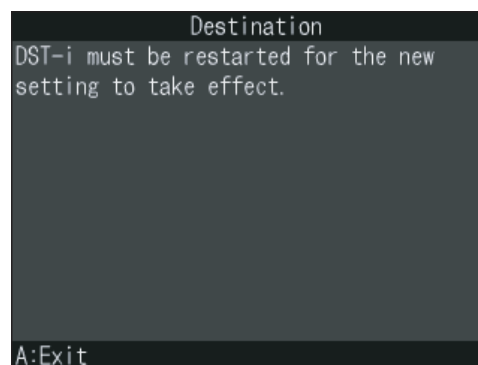
Japan	To use in Japan (Display in Japanese)
Global	To use in the world including Japan (Display in English)

1. Select a destination to be set in the Destination setting screen and press the A key.



Destination setting screen

T01964E



Restart prompt screen

T01965E

### NOTE

- A check mark is displayed in the checkbox for the currently set language.

2. Restart the DST-i.

### NOTE

- To change the destination to the set one, restart of the DST-i is required.

■ To change the destination "Japan" (Display in Japanese) to the destination "Global" (Display in English), follow the procedure below.

1. Return to the Main Menu screen from the current screen.



T01966E

Main Menu screen

**NOTE**

- When the Opening screen is displayed after restart, the Main Menu screen can also be displayed by pressing any key.

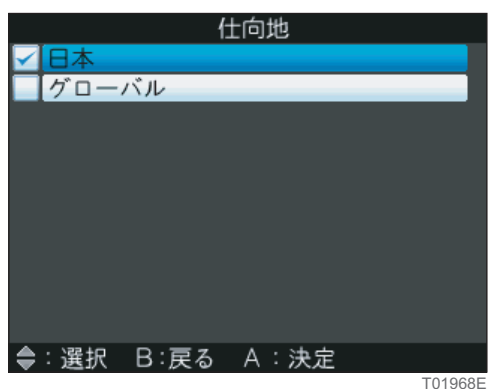
2. Select "本体設定" in the Main Menu screen and press the A key.  
The Settings menu screen is displayed.



T01967E

Settings menu screen

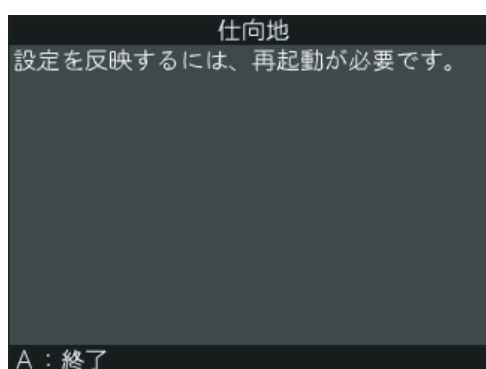
- 3.** Select "仕向地" in the Settings menu screen and press the A key.  
The Destination setting screen is displayed.



Destination setting screen

T01968E

- 4.** Select "グローバル" in the Destination setting screen and press the A key.



Restart prompt screen

T01969E

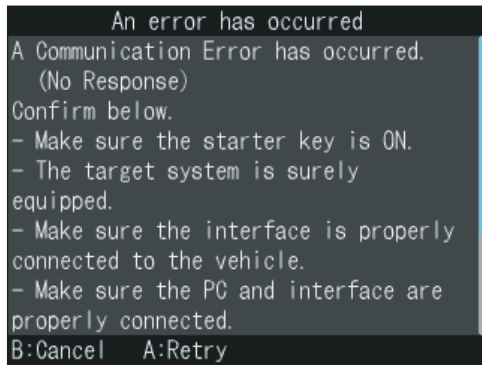
- 5.** Restart the DST-i.

# 3 If error occurs

## 3-1 Communication error

When a communication error occurs during operation of the DST-i software for HINO Vehicles, the following error message screen is displayed.

Communication error A



T01970E

Error message screen  
(No response)

Communication error B



T01971E

Error message screen  
(Negative response)

When the communication error occurs, press the A key to retry.

After this if the communication error reoccurs, check the occurrence of communication error as follows.

### ■ The communication error A

The communication error A is displayed when the system (ECU) does not respond for the request from DST-i. The following causes are suspected.

- The vehicle ignition or key switch is not turned ON.
- The datalink cable is not connected or in connection failure.
- The diagnosis target system is not equipped on the vehicle.
- The DST-i software for HINO Vehicles does not support the system in question.  
The vehicle/system supported by the DST-i software for HINO Vehicles is equivalent to those supported by HinoDX.  
However, some delay may occur before full support by the DST-i software for HINO Vehicles because of timing of addition.

### ■ The communication error B

The communication error B is displayed when the rejection response is returned from the system (ECU) for the request from DST-i.

The following causes are suspected.

- The conditions of vehicle side are not still established for the job to be executed.

For example, the following case is assumed.

"Reset all DPR status" is allowed only during a halt of engine, but it was executed while the engine is rotating ignoring the instruction of the operation guidance.

If the trouble cannot be resolved even after the above checks, please contact your distributor.



## 3-2 Screen freeze

If the screen is locked during operation of the DST-i software for HINO Vehicles, take action according to the following procedure.

- 1.** Turn the mode switch of DST-i OFF.  
When the screen freezes after turn the mode switch off, please contact your distributor.
- 2.** Restart by turning the mode switch of DST-i ON.  
When the screen freezes after restart, please contact your distributor.

<b>DENSO Overseas Subsidiary Company &amp; TAS CORPORATION name/Address</b>	<b>Tel/Fax</b>
<b>DENSO AUTOMOTIVE SYSTEMS AUSTRALIA PTY. LTD.</b> Address: 2-46 Merrindale Drive, Croydon, Victoria 3136, Australia	Sales & Service Tel: +61-3-8761-1100 Fax: +61-3-8761-1505
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<b>PT.DENSO SALES INDONESIA</b> Address: Jl.Gaya Motor I No.6, Sunter II, Kel.Sungai Bambu, Kec.Tanjung Priok, Jakarta 14330, Indonesia	Sales & Service Tel: +62-21-6512279 Fax: +65-21-6512284
<b>DENSO (MALAYSIA) SDN. BHD.</b> Address: Lot 2, Jalan P/1, Section 13, 43650 Bandar Baru Bangi, Selangor Darul Ehsan, Malaysia	Sales & Service Tel: +60-3-87328888 Fax: +60-3-87328822/33
<b>DENSO PHILIPPINES CORPORATION</b> Address: 109 Unity Avenue, Carmelray Industrial Park 1, 4037 Canlubang, Calamba City, Laguna, Philippines	Sales & Service Tel: +63-49-549-3030 Fax: +63-49-549-3089
<b>DENSO TAIWAN CORP.</b> Address: 525, Sec. 2 Mei Su Road Yang Mei Town Taoyuan Hsien, Taiwan, R.O.C.	Sales & Service Tel: +886-3-482-8001 Fax: +886-3-482-8003
<b>DENSO SALES (THAILAND) CO.,LTD.</b> Address: 888 Moo1, Bangna-Trad Rd. Km. 27.5, Tambol Bangbo, Amphur Bangbo, Samutprakarn 10560 Thailand	Sales & Service Tel: +66-2315-9500 Fax: +66-2315-9515
<b>DENSO EUROPE B.V.</b> Address: Hogeweyselaan 165, 1382 JL Weesp, The Netherlands	Sales & Service Tel: +31-294-493493 Fax: +31-294-417122
<b>DENSO SALES MIDDLE EAST &amp; NORTH AFRICA FZE</b> Address: P.O.Box 261986, Jebel Ali Free Zone South, Dubai, United Arab Emirates	Sales & Service Tel: +971 4 880 7789 Fax: +971 4 880 7790
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Software for HINO Vehicles  
Instruction Manual

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