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Coding Information

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Title: 9800 RHD - Odometer Mileage Corrective Programming

Applies To: 9800 RHD Southern Africa

CHANGE LOG

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07/23/2026 - Updated formatting
04/13/2018 - Author updated for feedback purposes
9/2/2014 - Author updated for feedback purposes

Inaccurate Mileage Displayed by Odometer

The Odometer total mileage does not reflect the same mileage as recorded on the Engine ECM. Possible causes of the mileage difference between the Engine ECM and Odometer are:

1. If the un-switched power is disconnected without first turning the ignition off the odometer function will experience an uncontrolled power down causing it to lose the kilometers accumulated since the last kilometer update or controlled power down (ignition off) which ever occurred last.
2. Intermittent ground path caused by poor, loose and inadequate earth connections on the gauge cluster and IP control module circuits
3. Odometer programming software is incorrect or requires an update

Ensure to identify and correct the root cause of the odometer mileage loss, prior to correcting the odometer displayed mileage.

Correcting Odometer Mileage

The procedure and intent described below is based on the Odometer Mileage being less than the Engine ECM mileage, as the ECM only uses non-volatile memory in recording mileage and not subject to mileage losses caused by intermittent ground contact.

To ascertain the correct vehicle mileage the engine ECM will have to be accessed using Cummins INSITE™ software, operated by a Cummins accredited Technician. Once connected to the ECM, the total vehicle mileage can be accessed and noted for programming the Odometer

Note: The programmer is designed to only increase distance accumulation in an odometer, Odometer mileage reduction cannot be achieved using the methods and programming interface as described in this article.

ITEC Project 4614 Odometer Programmer

The Odometer Programmer is a Windows based utility that can be used to reprogram the odometer accumulation on a Speedometer. It is used with the supplied companion hardware adapter that interfaces a PC serial port (RS232) to an ISSPRO

100 sub bus system.

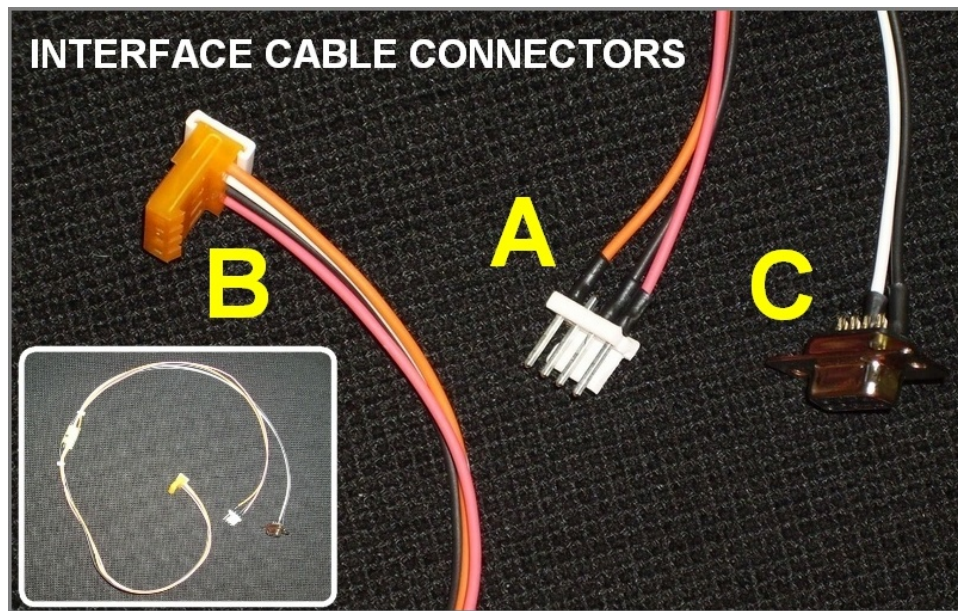


Figure. 1. Odometer Programming Cable (Insert) & Harness Connectors

Installing the Software:

Odometer Programmer Software: Revision Number 1.0.0.0

The software deployment consists of two files, distributed on a CD.

Remove any previous installation of this program using the Windows Add/Remove Programs feature in the control panel.

Install the distribution media on the target PC.

Locate and run the setup.exe file.

The ITEC Project 4614 Odometer Programmer will be installed and placed in the program files/ISSPRO directory.

A shortcut will be generated for the desktop.

Note:

1) This program requires prior installation of the Microsoft .NET Framework 2.0 or 3.0.

If this is not installed on the target PC it will have to be downloaded from Microsoft using the Windows Update feature of Windows XP.

2) This program requires a RS232 serial port.

If the target PC does not have a RS232 port a USB to RS232 serial adapter may be used.

The Serial adapter vendor will supply a Windows driver that when installed, will provide the necessary RS232 communications interface to this program.

Connecting the Hardware:

The hardware adapter allows the PC port to connect to the ISSPRO 100 Sub Bus.

The adapter is electrically placed between any female node connector on the bus and the target speedometer.

A third connection is provided for connection to a PCs serial port.

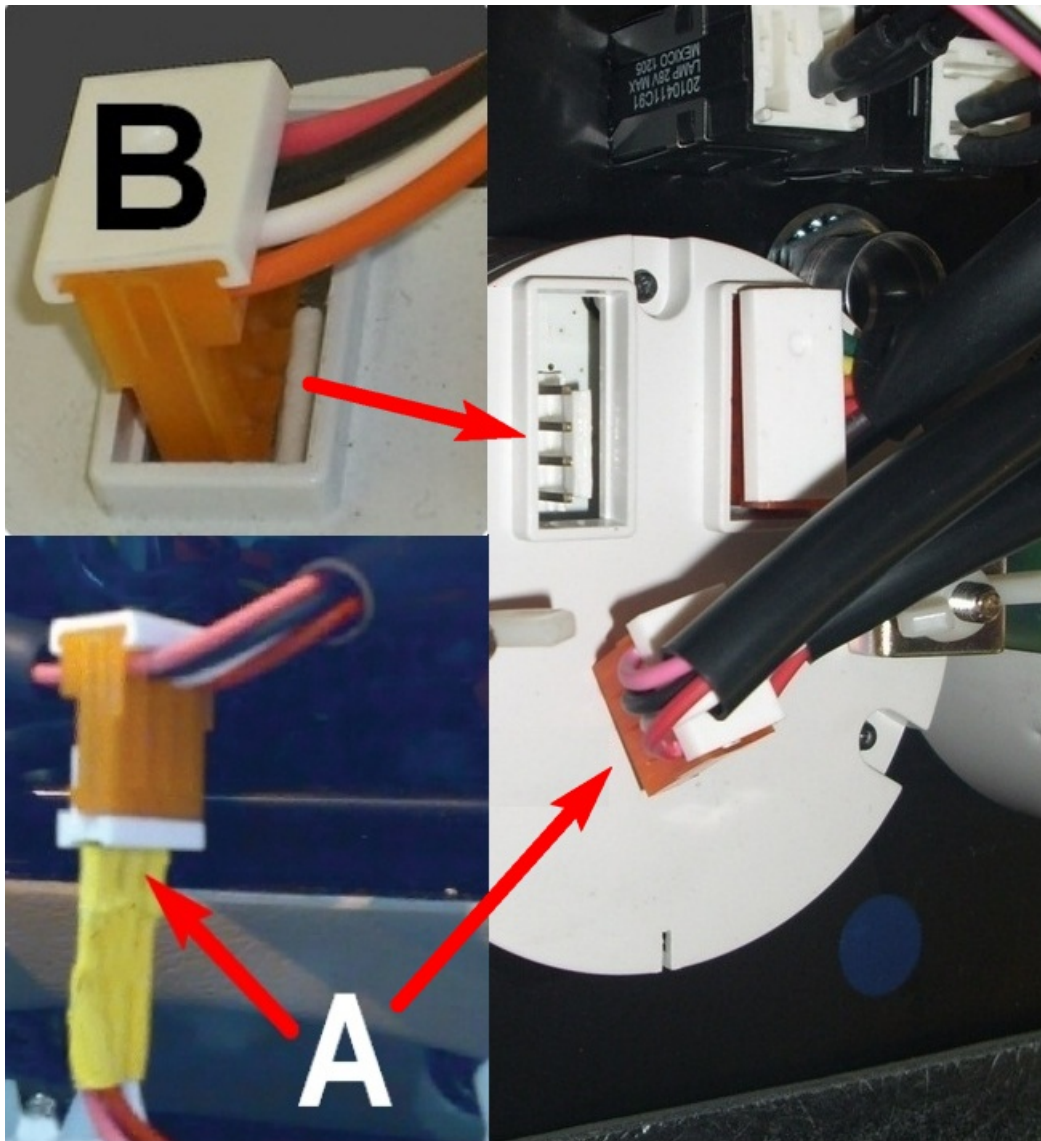


Figure. 2. Harness to Speedo Connection

- 1) With ignition off, disconnect the speedometer by removing the from the Sub Bus by removing the connector from the speedometer head.
- 2) Connect the male connector of the interface cable (**A**) to the just unplugged speedometer female node connector
- 3) Connect the SPEEDOMETER connector of the interface cable (**B**) to the speedometer.
- 4) Connect the adapters RS232 PORT connector (**C**) to any RS232 serial port on the users PC.

Starting the Program:

From the Windows start menu select:

Start | Programs | ISSPRO |Odometer Programmer

Review the instructions that appear on the programmer display window.

Known issues:

This program has only been tested with Windows XP to date.

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