

ALLISON HYBRID

DIAGNOSTICS — DOC™ BASIC



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Diagnostics — DOC™ for PC (H 40/50 EP) Basic

General Information

- Allison DOC™ (H 40/50 EP) is a diagnostic tool but also includes TCM Reprogramming capabilities.
 - *This feature requires specific training and authorization by Allison Transmission.*
- Software support, documentation, updates and downloads are available at www.allisontransmission.com.

Allison DOC® For PC (H 40/50 EP) v4.0

Allison DOC® For PC (H 40/50 EP) v4.0 (Noregon P/N: 93140 - Existing User, Noregon P/N: 93040 - New User) is available for purchase at the Allison Web Store <https://allison.noregon.com>. Allison DOC® For PC (H 40/50 EP) v4.0 is compatible with the H 40/50 EP System. As a note, Allison DOC® For PC (H 40/50 EP) v4.0 is a separate, standalone application (not part of Allison DOC® For PC-Service Tool). Refer to SIL 13-EP-11 on the Allison Transmission Extranet for a summary of the new features and enhancements.

Please note that Windows® Vista® is *not compatible* with the Softing CANusb and the V5.10 Softing Driver is *not compatible* with the CANusb.

Please contact Noregon Systems at 1-877-659-6913 (US/Canada) or 1-336-970-5534 (International) for more information or E-mail: support@noregon.com. To place an order, visit the Allison Web Store: <https://allison.noregon.com>.

PC Based Applications

- Allison DOC® (Diagnostic Optimized Connection) For PC-Service Tool v9.0.0 (Please refer to the SIL 5-TR-11 (or Service Tip #511 on the internet) on the Allison Transmission Extranet.) *Now available from Noregon Systems!*
- Allison DOC® (Diagnostic Optimized Connection) For PC (H 40/50 EP) v4.0 (Please refer to SIL 13-EP-11 that is currently available on the Allison Extranet.) *Now available from Noregon Systems!*
- Allison DOC® For Fleets (1000/2000) v4.0 *Now available from Noregon Systems!*
- Allison DOC® For Fleets (3000/4000) v4.0 *Now available from Noregon Systems!*



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RESOURCES: Allison DOC™ Online Support



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Allison Transmission > Service > Electronic Tools

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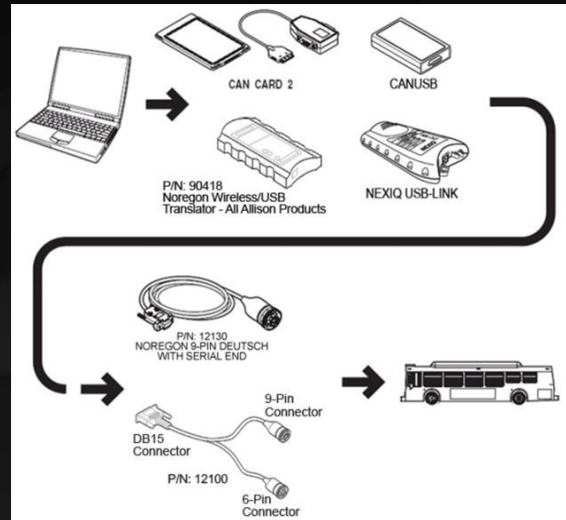


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Connecting To The Vehicle

- Connect the computer to the translator device.
 - Additional translator device options are available for use starting with release version 3.1 of Allison DOC™ (H 40/50 EP).
 - Reference the Allison DOC™ (H 40/50 EP) Users Guide for more detailed information on translator device options.
- Connect the translator device to the vehicle diagnostic connector.
- Launch Allison DOC™ (H 40/50 EP) from the desktop icon or start menu programs list.



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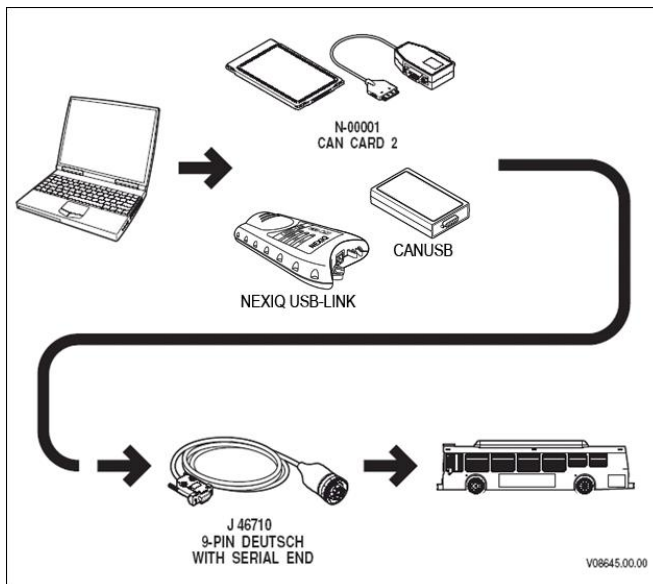
RESOURCES: Connection Diagram

7. Connecting the PC to the Vehicle

An RP1210A compliant PC-to-vehicle translator is required. Allison DOC ® For PC (AED) currently supports the following translation devices:

- Softing CANusb® (USB port)
- Softing CANCard2® (PCMCIA)
- Softing CAN-AC2_PCI® (PCI bus)
- Nexiq usbLink (version 5.4 drivers or later)

Use the SPX Service Solutions harness part number J-46710 to connect the Softing or usbLink translator device to the vehicle 9-pin Deutsch connector. The diagram below illustrates the hardware connections between the PC hosting Allison DOC ® For PC (AED), the Softing translator device or usbLink, and the J-46710 harness.



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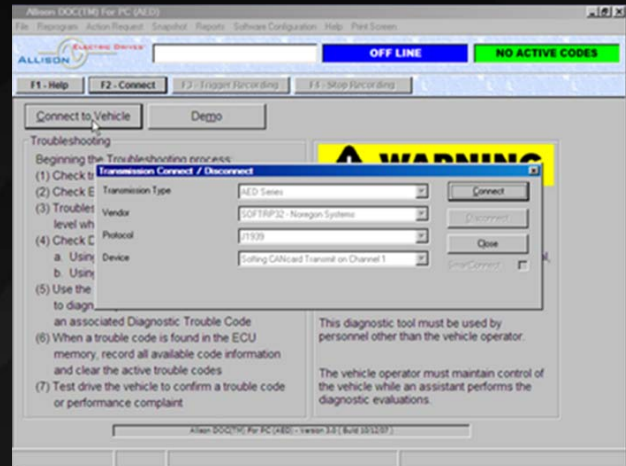


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Starting The Program

- The Warning Screen appears when Allison DOC™ for PC (H 40/50 EP) is launched.
 - Warnings include technician and equipment safety information.
 - Basic troubleshooting steps are also included.
- Features accessed on this page:
 - Connect to the vehicle.
 - View Allison DOC™ (H 40/50 EP) demo.



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Trouble Code Window

- The Trouble Code Window displays TCM/VCM information including:

- *System ID.*
- *TCM ignition voltage.*
- *Oil level.*
- *Sump oil temperature.*
- *ESS temperature.*
- *DTCs.*
 - Active DTCs are codes occurring during the present diagnostic session.
 - Inactive DTCs have occurred previously but are not active during the present diagnostic session.



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Software Configuration Pull Down

- Use this function to:
 - Select language and units of measure.
 - Access Allison DOC™ (H 40/50 EP) updates from the Internet.



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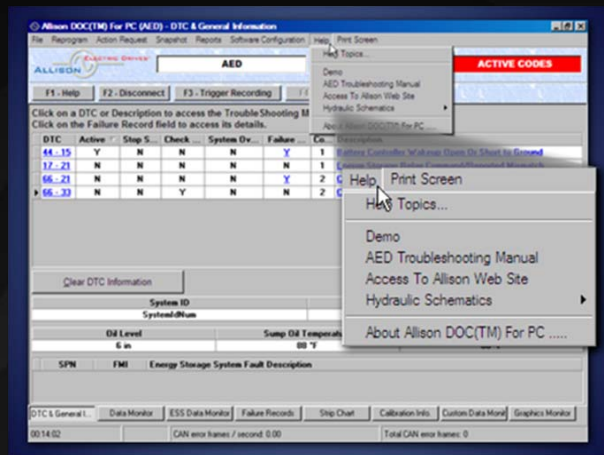
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Help Pull Down

■ Use this function to:

- Access help topics.
- Access Allison DOC™ (H 40/50 EP) demo.
- Access the Allison H 40/50 EP System Troubleshooting Manual.
- Link to the Allison website (if connected to the Internet).
- View hydraulic schematics for the H 40/50 EP System.
- View Allison DOC™ (H 40/50 EP) version information.



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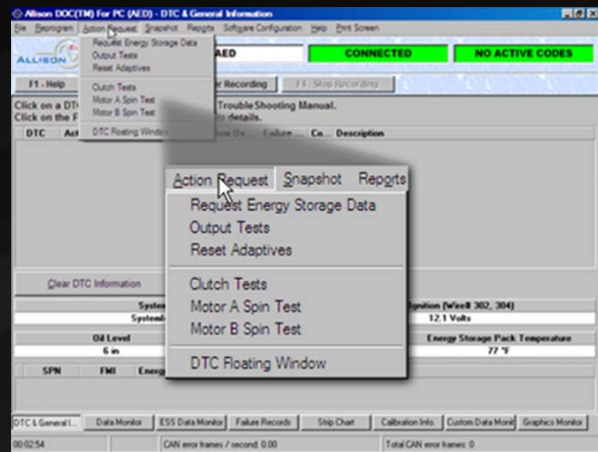


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Action Request Pull Down

- Use this function to:
 - Request Energy Storage Data.
 - Run Output Tests.
 - Reset Adaptives.
 - Perform Clutch Tests.
 - Perform Motor Spin Tests.
 - Launch the DTC floating window.



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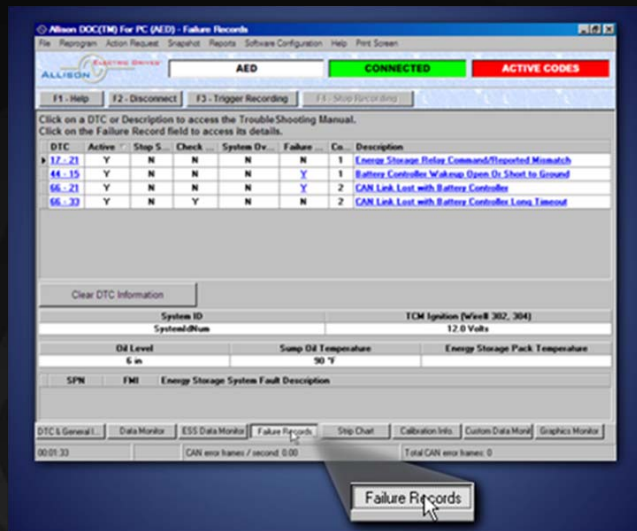


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Failure Records

- Use this function to:
 - View the failure record by clicking the “+” sign.



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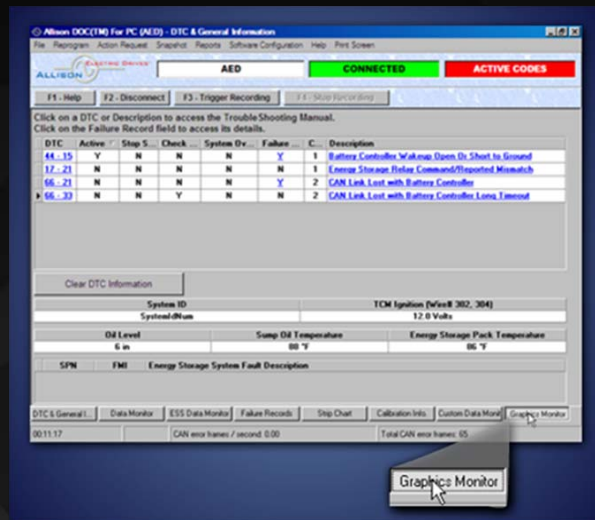


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Graphics Monitor

- Use this function to display diagnostic data using gauges, voltage meters and thermometers.
 - Click on a gauge or thermometer to view it full screen.



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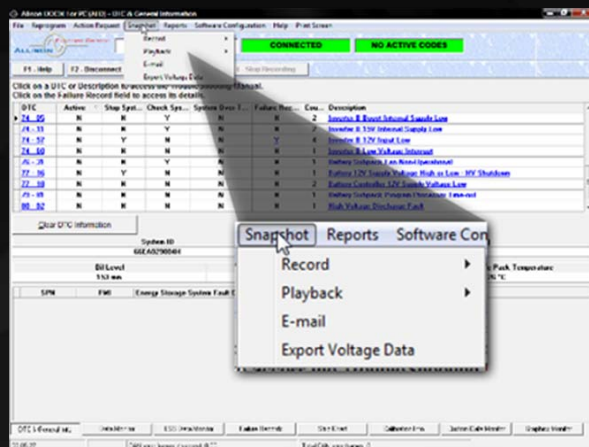


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Snapshot

- Use this function to save data as a file which can be played back later or shared with other Allison DOC™ (H 40/50 EP) users.
 - Recording options:**
 - When a specific DTC is set.
 - When any DTC is set.
 - On command by choosing "Remember This Session".
 - Click F3 – Fire Trigger to record immediately.
 - Bookmarks can be set when recording by using the F3 – Bookmark button.**
 - This adds reference points to the file for use during playback.
- Allows technicians to verify the motors spin when commanded, and in the direction commanded.



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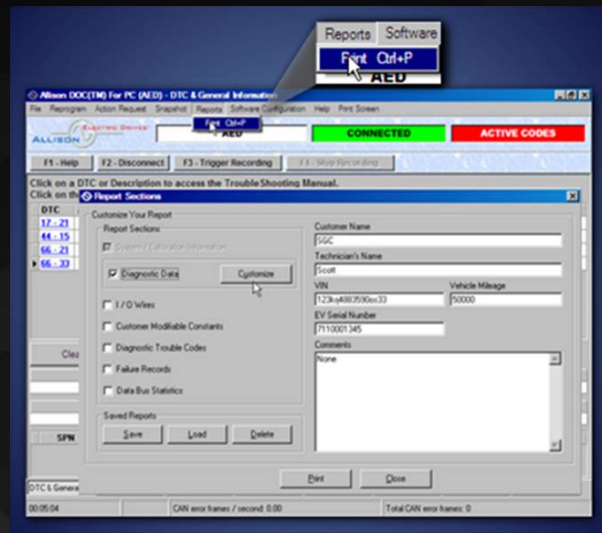


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Diagnostic Reports

- Use the Print function to save and print Diagnostic Reports.
 - Reports can be printed at any time.
 - Reports can be generated from live connections or snapshots.
 - Information included in the reports can be selected.
 - Reports can be saved.
 - Reports can be e-mailed.



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