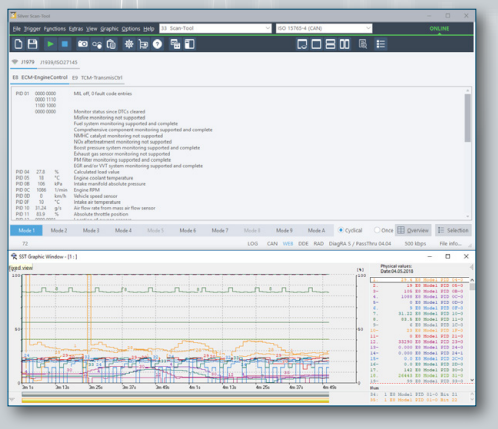
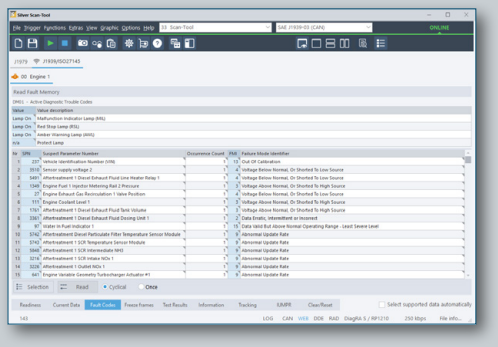
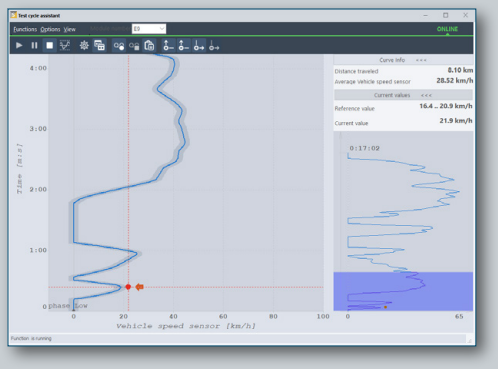
SILVERSCANTOOL

RA® Automotive Products







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OBDII/EOBD/HD-OBD/WWH-OBD Diagnostics on Laptop and Notebook Computers

is used by companies worldwide to perform OBDII, EOBD, HD-OBD and WWH-OBD diagnostics. It supports all legally mandated services, including sub-functions (SAE J1979 and ISO 15031-5) and diagnostic messages (SAE J1939). WWH-OBD (World Wide Harmonized - Onboard Diagnostics) in accordance with ISO 27145 is fully supported.

- Access to all data from all responding control units
- Auto-configuration utilizing supported services and parameters
- Graphical and numerical display of measured values
- Multiple options for data storage and recording
- Graphical Data display
- Integrated test cycle assistant
- Real-time communication monitor
- Custom diagnostic requests
- Optional plug-in for automation via web services

- SAE J1979, SAE J1939 and ISO 27145 applications
- Support of SAE J2534 and RP1210 API
- Integrated SAE J1699-3 and SAE J1939-84 compliance test cases tools

The Silver Scan-Tool™: Easy to Use, Comprehensive Functionality

www.ra-automotive.net

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automotive engineering tool alliance

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RA Automotive Software Solutions, Inc.

OBDII, EOBD, HD-OBD
and WWH-OBD scan tool –
always up-to-date

The Silver Scan-Tool™ software provides onboard diagnostic functionality for SAE J1979, SAE J1939 and ISO 27145.

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Applications:

The Silver Scan-Tool™ was developed for OBDII, EOBD, HD-OBD and WWH-OBD diagnostics. It offers comprehensive functionality required for testing and diagnosing any electronic control module supporting these standards.

Basic functions:

The Silver Scan-Tool™ supports ISO 9141-2, ISO 14230-4, ISO 15765-4 (CAN) as well as SAE J1850 PWM/ VPW (Ford/General Motors). Functionality for SAE J1939 HD-OBD and ISO 27145 WWH-OBD (World-Wide Harmonized OBD) used in HD-Vehicles is part of the software.

All control units using these protocols can be diagnosed. These are generally emission-related control devices such as engine and transmission controllers or battery control modules of hybrid vehicles.

The OBDII/EOBD features support all legally mandated diagnostic functions (Service $01 to Service $0A) as well as all sub-functions (PIDs). In addition to faults logged by the control unit, various other measurement values can be read and displayed. Users can also view a list of all supported services and PIDs for all OBDII-compliant control units in the vehicle.

HD-OBD and WWH-OBD data is arranged in functional groups (data areas) such as: Readiness, Current Data, Fault Codes, Freeze Frames, Test Results, Tracking and IUMPR.

Extended functions:

The Silver Scan-Tool™ is enhanced by an option allowing graphical data display. Measurement values are displayed numerically and graphically and can be recorded and saved to several formats (e.g. CSV and MDF4) for use in other applications. Another data storage option allows the user to read the data from the complete OBD system in full and to save them to TXT and XML files. XML files can be converted to PDF, HTML and Excel files.

An implemented test cycle assistant allows driving, following standard (e.g. FTP75, NEFZ, WLTC) or self-defined driving cycles with use of selectable reference values acquired from the OBD system (e.g. speed, rpm).

The communication monitor tracks the diagnostic communication in real-time. The user can set and save custom message filters.

Besides the functions provided by the user interface, the user can define sequences of diagnostic messages. The services can be selected from predefined, standard-based lists and are supplemented by additional parameters set by the user. The service lists contain the complete range of services defined in ISO 14229, ISO 14230 and SAE J1979. In addition, raw CAN messages can be sent to the CAN bus.

Hardware:

K-line connections can be made with a simple level-converter cable connected to the serial or USB port of the computer. CAN diagnostics require a special CAN interface. A number of interface devices from different manufacturers is supported using their native drivers. The Silver Scan-Tool™ also supports all SAE J2534 PassThru and TMC RP1210 devices.

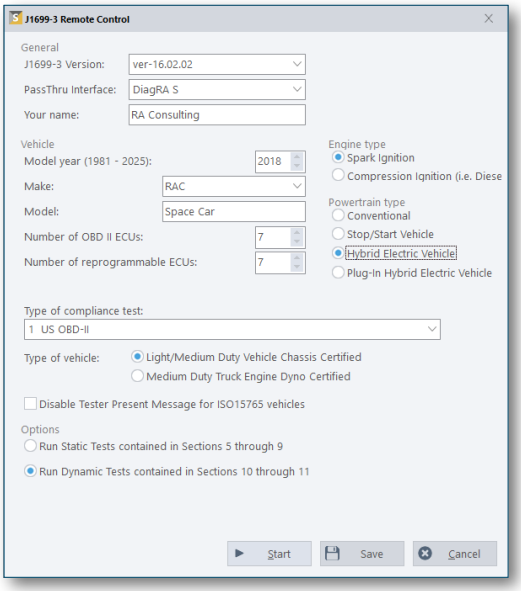
Once installed and registered, the Silver Scan-Tool™ is ready for immediate use.

The Silver Scan-Tool™ runs Windows desktop and laptop computers if a supported diagnostics hardware interface is used. If the tool is to be used on tablet PCs or other devices, please contact RA Consulting before ordering.

System Requirements:

- Windows 7 (32-bit and 64-bit versions)
- Windows 10 (32-bit and 64-bit versions)

The Silver Scan-Tool™ – SAE J1699-3 OBDII Compliance Test Cases tool with log file data formatter on Desktop-PCs or Notebooks

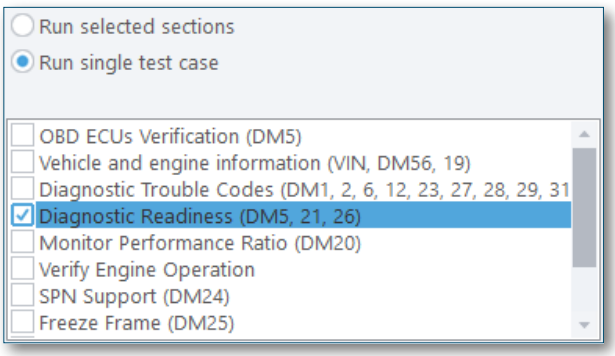


- Windows-based interface for SAE J1699-3 OBDII Compliance Test Cases tool
- Logfile data formatter with XML and PDF output
- XSL style sheet included for displaying XML data in a browser
- Original logfile content available in PDF output file

The Silver Scan-Tool™ allows the processing of the SAE J1699-3 OBDII Compliance Test Cases tool, which is based on open-source software. This software serves as the basis for the logfile data formatter and the J1699 logfile viewer developed by RA Consulting. The corresponding OBD II compliance test tool is publically available open-source software that is not part of the Silver Scan-Tool™ license. Its availability is subject to its open-source status and to any technical and economical constraints pertaining to its integration. However, we will maintain and adapt this module as long as it is economically and technically feasible. The Silver Scan-Tool™ is standard software and intellectual property of RA Consulting GmbH. The functionality of the Silver Scan-Tool™ standard software is not based on open-source software, allowing it to be used without the J1699-3 OBDII Compliance Test Cases tool.

SAE J1939-84 OBD Communications Compliance Test Cases tool

RA Consulting provides an additional tool to execute the SAE J1939-84 OBD Communications Compliance Test Cases for heavy-duty components and vehicles. It is delivered with the Silver Scan-Tool™. In comparison to the official tool, this implementation allows the execution of selected sections and single tests. Rather than running the full sequence of tests, this tool is optimized for smaller test subsets.



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