EPA / SAE J2534 Requirements

Pass Through Programming

EPA Concept

- Aftermarket repair facility able to program manufacturer specific electronic control modules using a standard PC connected to the internet.

  - pre 2004 model year, same functionality as a Dealer

  - 2004 model year and subsequent, available to everyone

- Aftermarket repair facility able to confirm correct hardware / software level of a particular VIN using a standard PC connected to the Internet.

EPA Requirements (J2534)

- PC
- Software
- PC Connection
- Vehicle Connection
- Protocols
- Power
- Language

PC Requirements

- Generic PC running a Win32 operating system
  - Windows 95, 98, 98SE, 2000, ME, XP
- Capable of connecting to the Internet

Software Requirements

- Applications can assume that the PC will be connected to the Internet
- OEM application limited to a single thread for communication
  - DLL
  - API

PC Connection

- Pass- Thru device can connect to the PC via:

  - RS-232

  - USB

  - Ethernet

  - Wireless

- Tool manufacturer to include device driver

Vehicle Connection

- Pass- Thru device shall connect to the vehicle via the J1962 / ISO 15031-3 connector

- Maximum cable length of 5 meters

- Manufacturer to supply information if other than J1962

Communication Protocols

- Currently 4

    - ISO 9141-2 - may not be used post 2006

    - SAE J1850 - PWM & VPW may not be used post
      2007

    - SAE J2610 - DaimlerChrysler SCI, may not be
      used post 2007

    - ISO 14230-4 / KWP2000 - may not be used
      post 2007

- Future to be ISO 15765-4 (CAN) - allowed
  post 2002, mandatory 2008 and subsequent

Power Supply

- Interface capable of supplying between 5 and 20 VDC to one of the following pins in the J1962 connector

  - 6, 9, 12, 13, or14

- Pin assigment software selectable for specific vehicle connectors

Language

- Information to be delivered in English

Konzept pass-thru reprogramming

Download von PC- /Schnittstellen-SW + Arbeitsanweisung + Programmier-Daten

Windows-PC

erWin

VW o. Audi

Anfrage mit Fahrzeugdaten nach Programmier-Daten

Programmier-Daten

pass-thru Box nach SAEJ2534

Auslesen der Fahrzeugdaten

Programmier-Daten

Fahrzeug-Steuergerät

Auslesen der Fahrzeugdaten