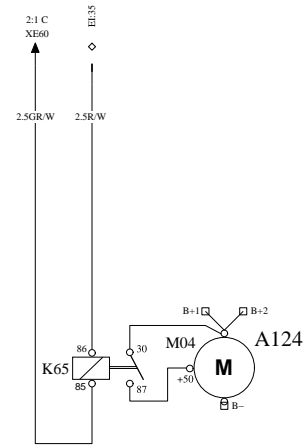


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|---|----------|--------------------|--|----------------------------------|--|--------------------------------|
| Engineering Release Notice (ERN) | Location | Change Description | A = Added D = Deleted | W = Was | Document Release Status RELEASED | |
| D-13552-37 | | Change Description | Date 2007-07-17 | | Modification Count | |
| <ul style="list-style-type: none"> • Changed the pinning for B51 and B187 to be: <ul style="list-style-type: none"> 1 5V 2 Signal 4 GND | | | | | | |
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| <p style="text-align: center;">VOLVO</p> <p style="text-align: center;">Volvo Powertrain Corporation</p> | | | <p>Document Type PRODUCT SCHEMATICS</p> | | | |
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EDM-W 2000-04-01



| Symbol | Description |
|---------------|---|
| A14 | Control unit, EMS (Engine Management System) |
| A45 | Fuel conditioner (Incl. R10, B52, Y38) |
| A124 | Comp. group starter motor. Contains M04 and K65 |
| B04 | Sensor, engine speed, crankshaft |
| B05 | Sensor, engine speed, camshaft |
| B187 | Sensor, after treatment fuel pressure |
| B32 | Sensor, engine cooling fan speed (Included in A43) |
| B52 | Sensor, water level in fuel pre filter (Included in A45) |
| B118 | Sensor, oil pressure |
| B119 | Sensor, oil level and oil temp |
| B21 | Sensor, coolant temperature, engine |
| B37A | Sensor, boost temperature |
| B37B | Sensor, boost pressure (EGR Mixer position) |
| B51 | Sensor, fuel pressure |
| B54 | Sensor, crank case pressure |
| B66 | Sensor, EGR temperature |
| B84 | Sensor, air humidity (and air temp) |
| B87 | Sensor, turbo speed |
| B166 | Sensor, EGR Differential pressure (Venturi) |
| E73 | 7th Injector |
| G02 | Alternator |
| M04 | Starter motor (Included in A124) |
| J1939 | Terminating resistor, CAN 2 Bus |
| K65 | Starter motor relay (Included in A124) |
| R01 | Heater, engine preheat |
| R10 | Heater, fuel pre filter (Included in A45) |
| Y103 | Safety Valve, fuel system, AT1 |
| Y33 | Solenoid valves UI (Unit Injector) |
| Y34 | Actuator, EGR system (Lisk) |
| Y35 | Solenoid valve, engine cooling fan (Included in A43) |
| Y37 | Solenoid valve, AVU, Air valve unit (recirculation valve) |
| Y38 | Solenoid valve, WIF, fuel pre filter water draining ((Included in A45)) |
| Y39 | Solenoid valve, VCB (Volvo Compression Brake) |
| Y54 | Control unit, Volvo geometric turbo, Can based |
| X18D | Fusible link, pre heater, GND |
| X18E | Fusible link, pre heater, GND |
| X18F | Fusible link, pre heater, Supply |
| XG9 | GND Stud, engine block (close to alternator) |

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Vehicle Interface EI

| Pin | Function |
|-------|---|
| EI:1 | CAN (H) |
| EI:2 | J1708 (A) |
| EI:3 | CAN II (H) |
| EI:4 | CAN (L) |
| EI:5 | J1708 (B) |
| EI:6 | CAN II (L) |
| EI:7 | Preheater Relay Drive |
| EI:8 | IVS |
| EI:10 | Alternator I |
| EI:11 | Alternator R |
| EI:13 | Power supply for A14 |
| EI:15 | Power supply for A14 |
| EI:18 | Switch ground, coolant level |
| EI:21 | Power supply for Y37, Y38, Y39 & A43 |
| EI:22 | Power supply for external sensors (+5V) |
| EI:23 | AC compressor control |
| EI:24 | Sensor, DPF relative pressure |
| EI:25 | Power supply VGT & Pre heat relay |
| EI:26 | GND for external sensors (c/o EI:22) |
| EI:27 | GND |
| EI:28 | Signal, coolant level |
| EI:29 | Signal, Temperature after part. Filter (DPF) |
| EI:31 | GND |
| EI:33 | Y35 Ctrl. signal (GND, Low side, Fan control) |
| EI:34 | Signal, temperature upstream catalyst |
| EI:35 | Starter control |
| EI:36 | Signal, temperature downstream catalyst |
| EI:37 | Power supply for R10 |
| EI:39 | GND |

CIC #1, CAN III (Component Interface Connector)

| Pin | Function |
|--------|-------------|
| CIC1:1 | Can III (L) |
| CIC1:7 | Can III (H) |

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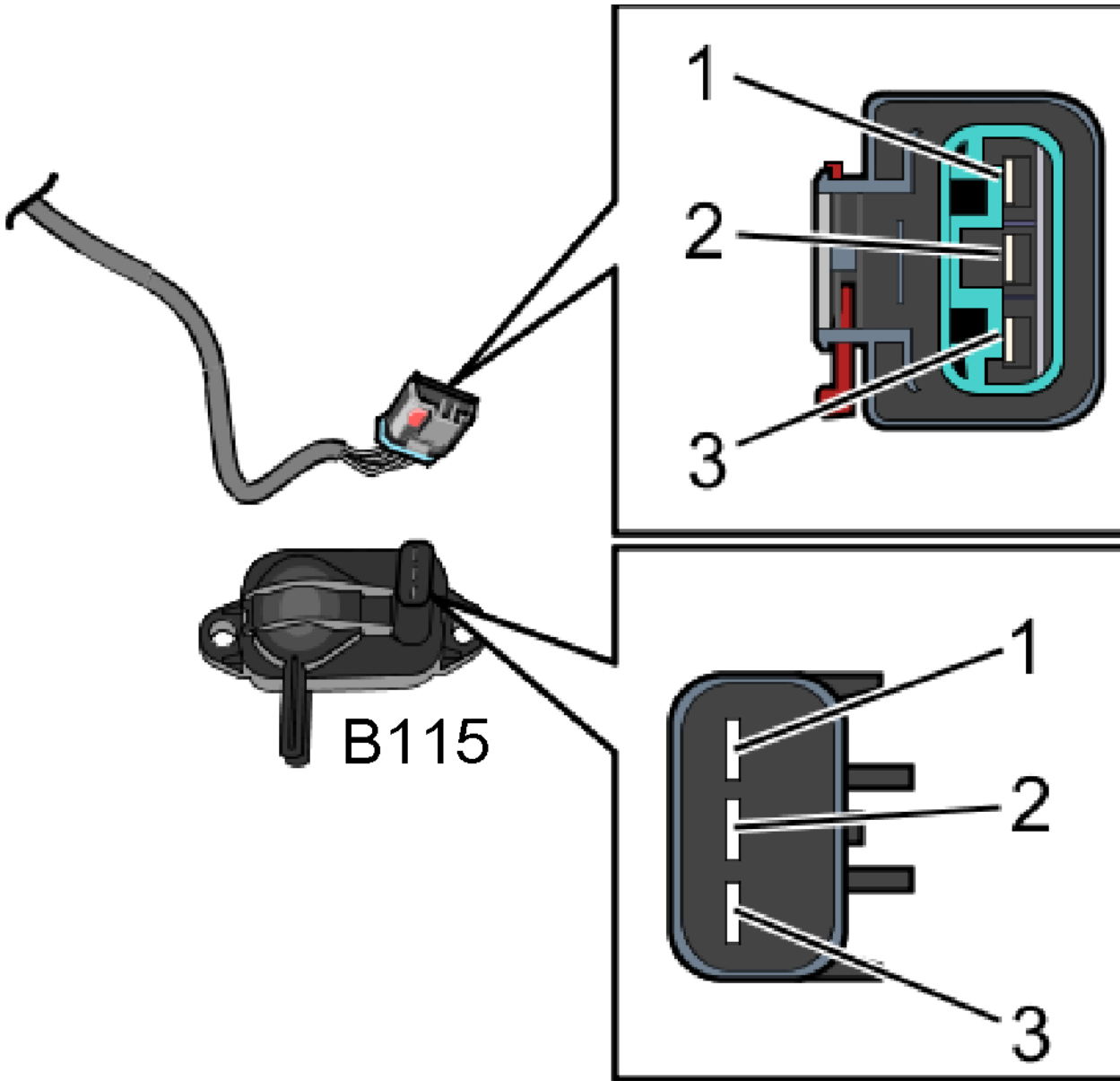
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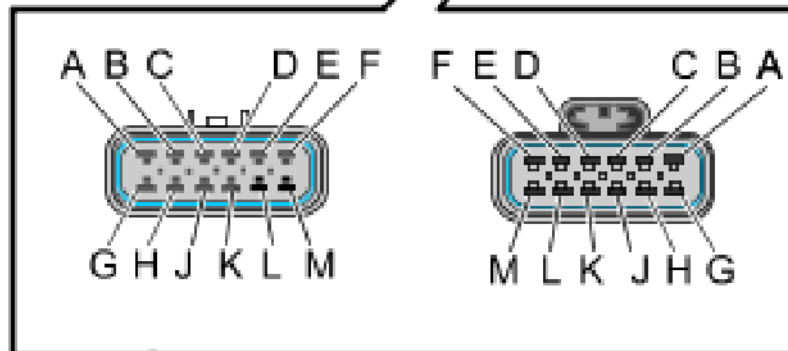
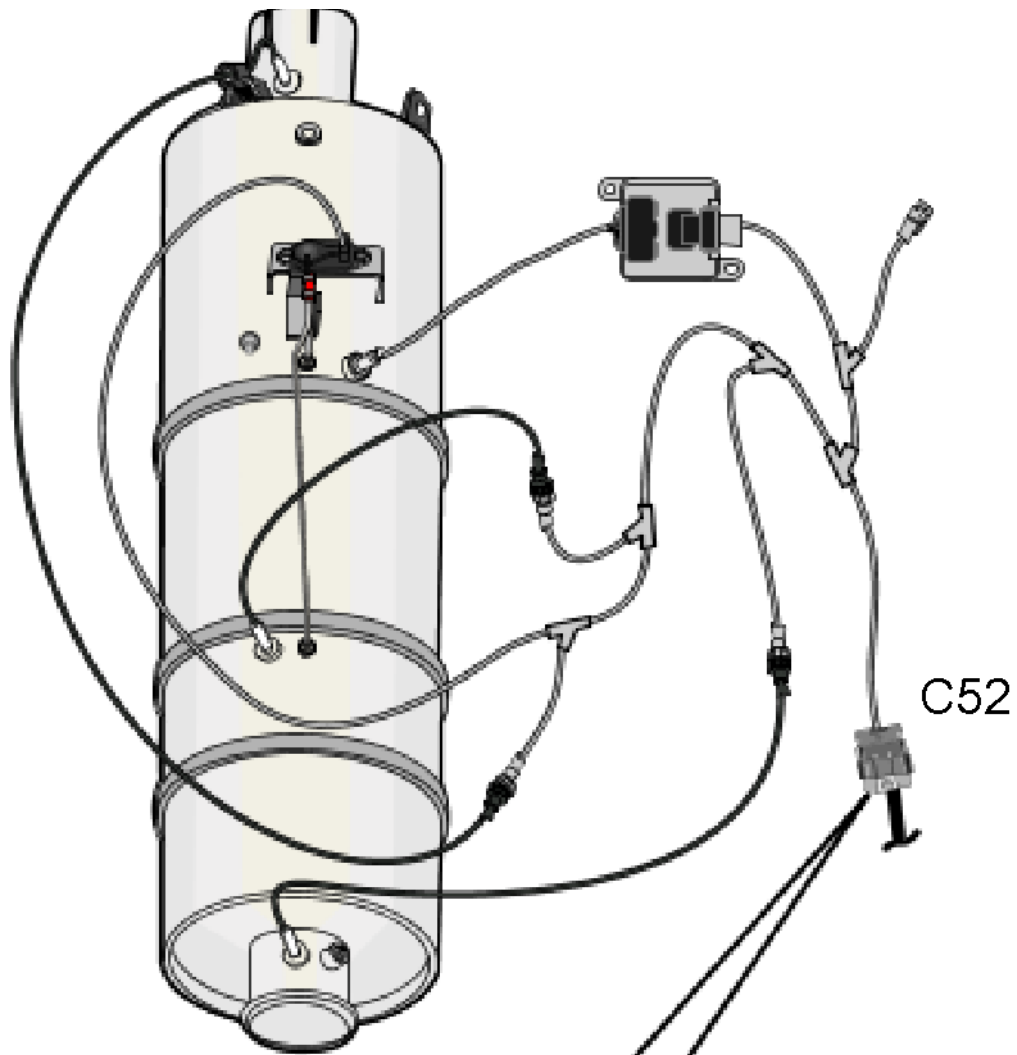
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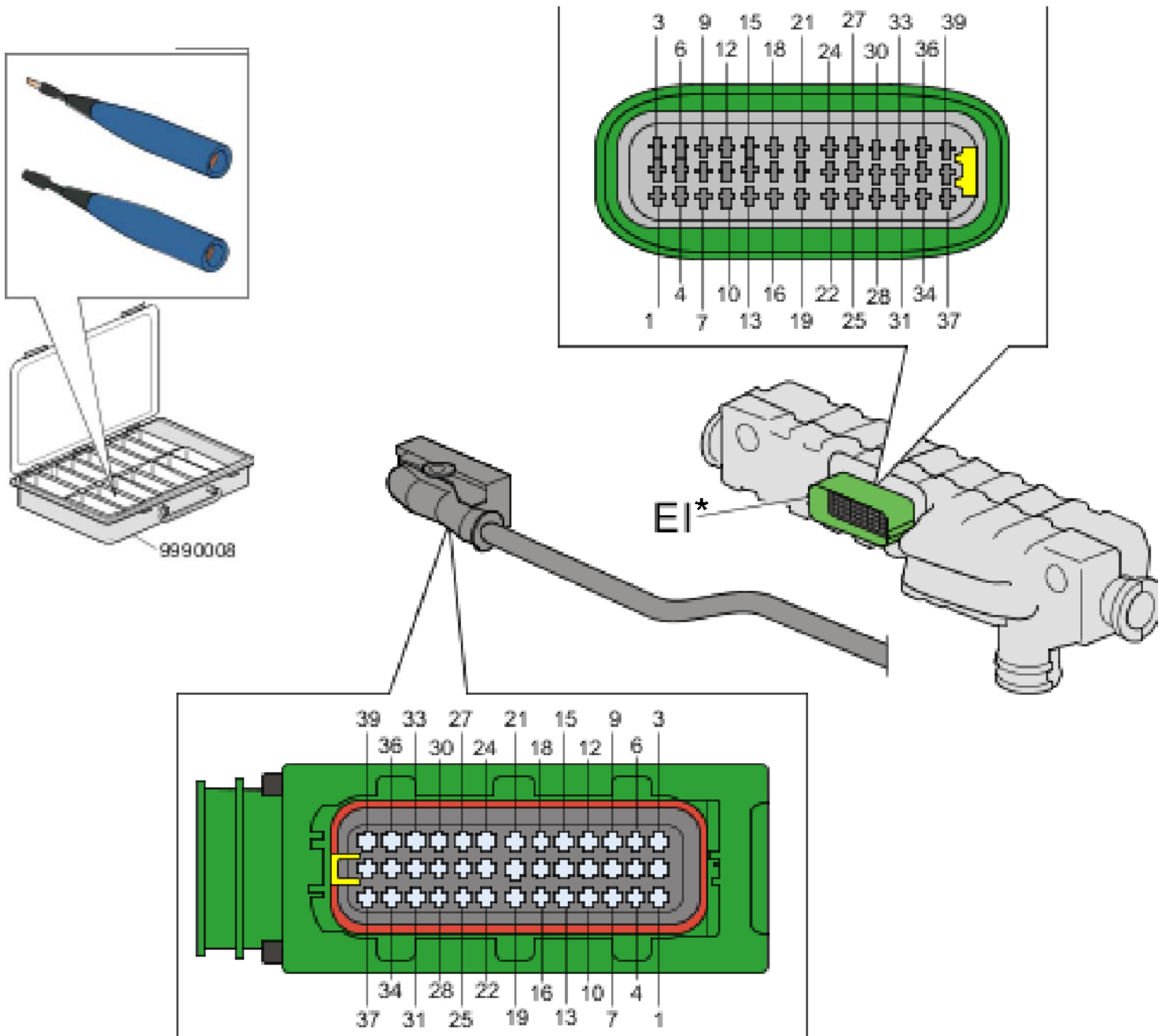
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EI, Engine Interface, Pin view



*Note: The EI connector is commonly referred to as the A82 engine interface connector

US07, A14, EECU, EA+EB, Pin view

