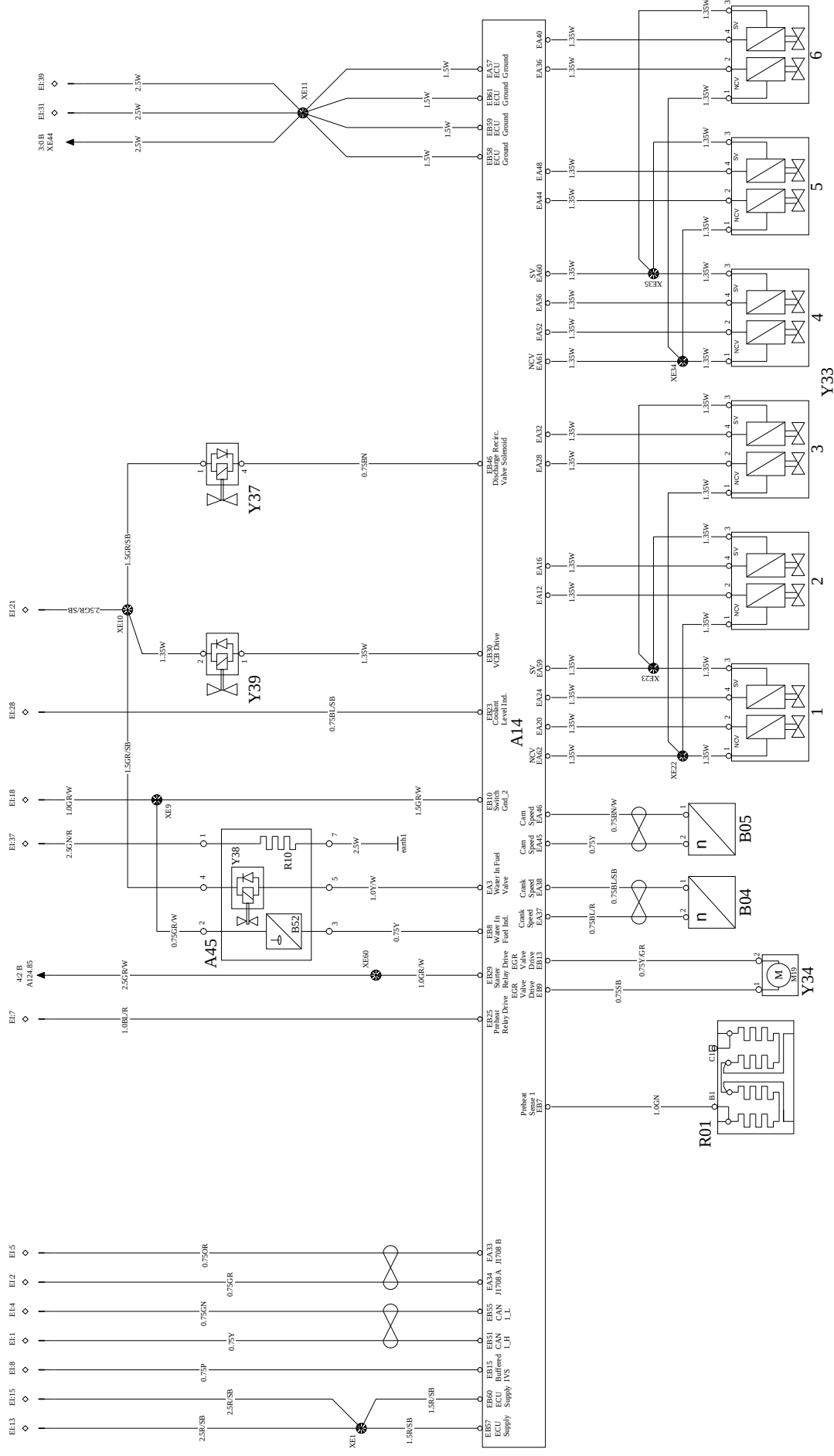
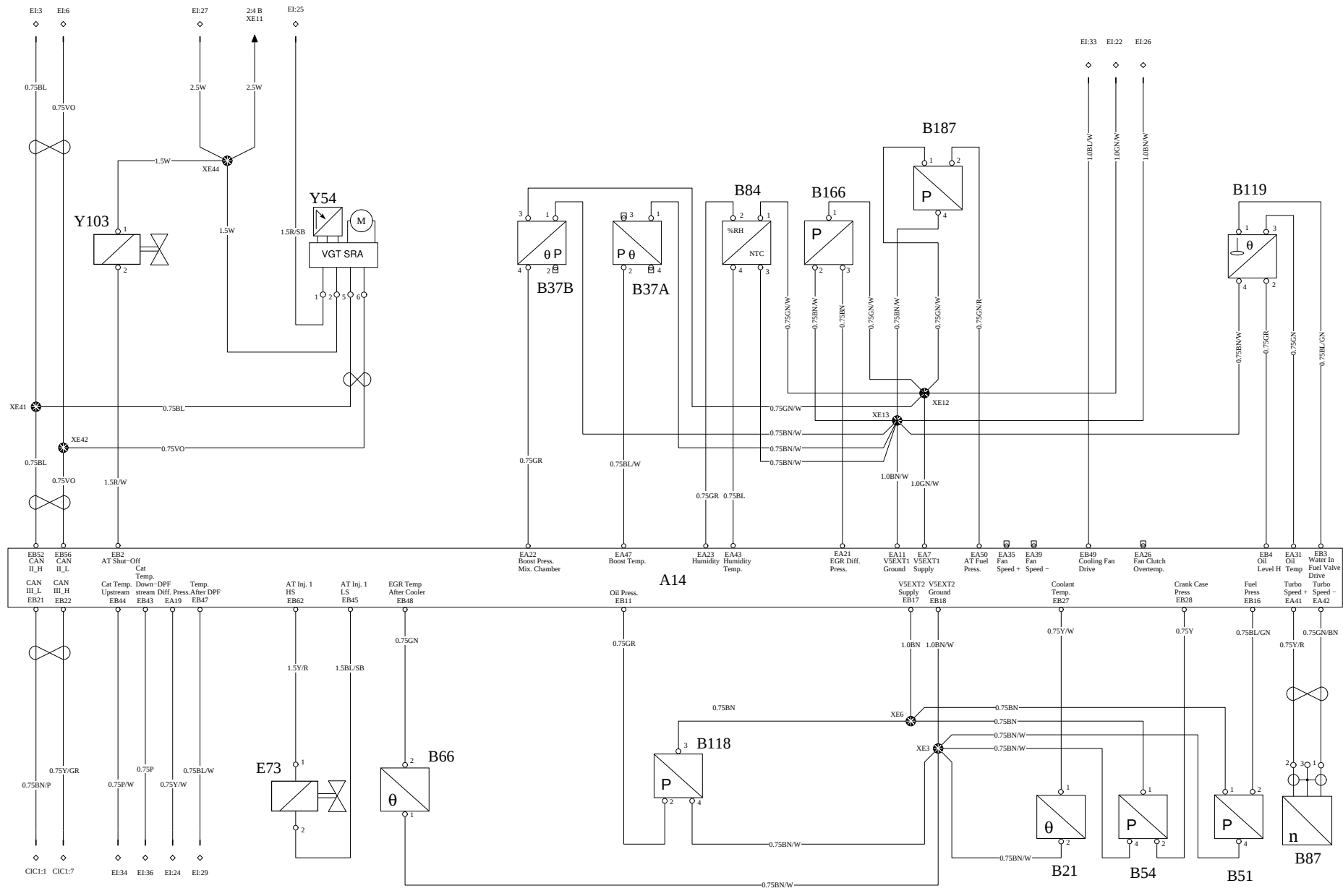


Engineering Release Notice (ERN)	Location	Change Description	A = Added D = Deleted	W = Was	Document Release Status RELEASED	
D-13552-37		Change Description			Date 2007-07-17	Modification Count
Changed the pinning for B51 and B187 to be: 1 5V 2 Signal 4 GND						

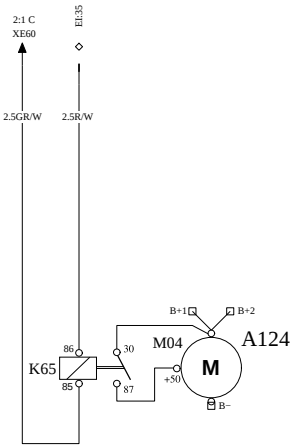




ENGINE

MD13 Prevost

WIRING DIAGRAM



Volvo Powertrain

Document title
WIRING DIAGRAM
Document type
PRODUCT SCHEMATIC

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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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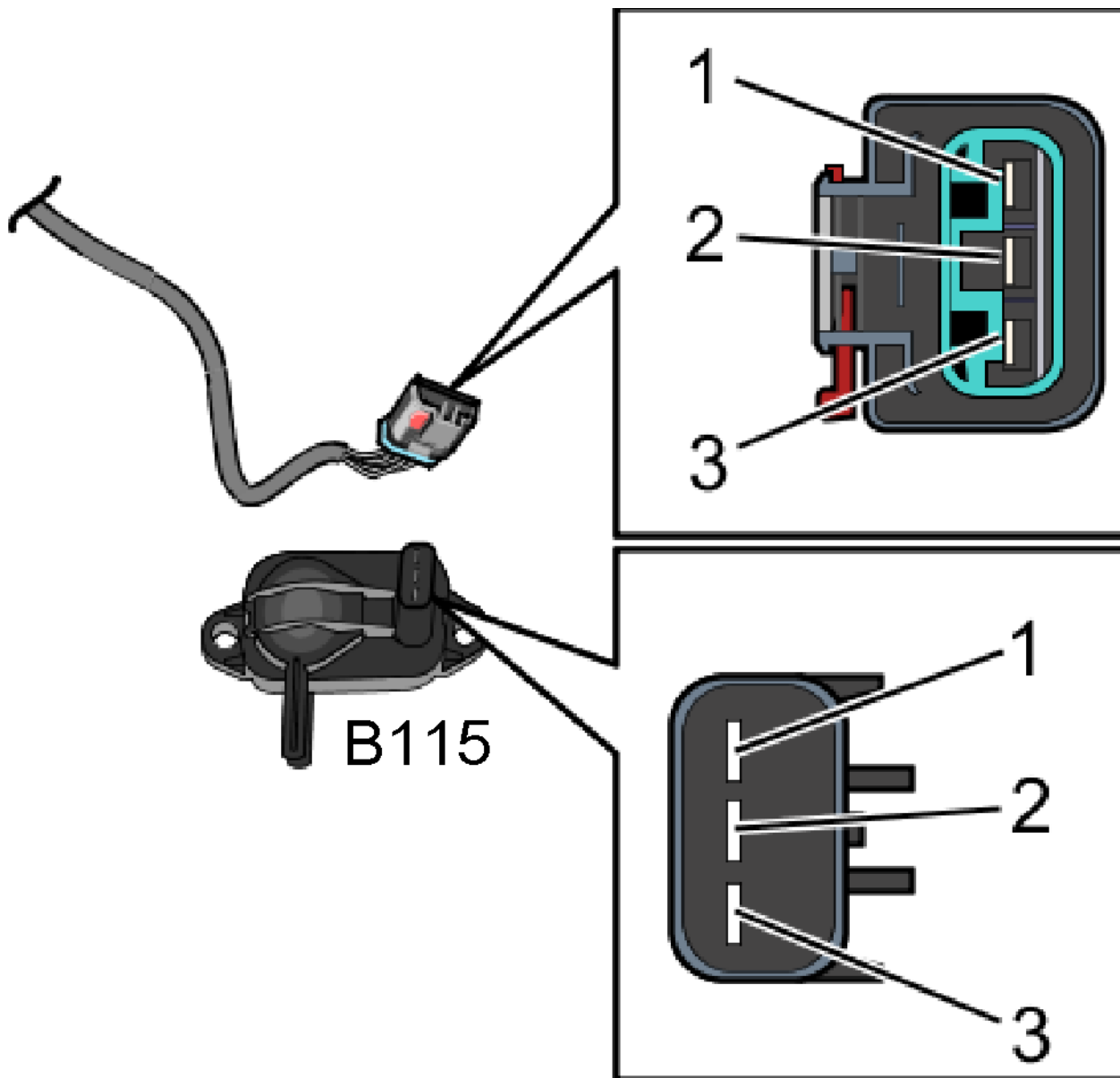
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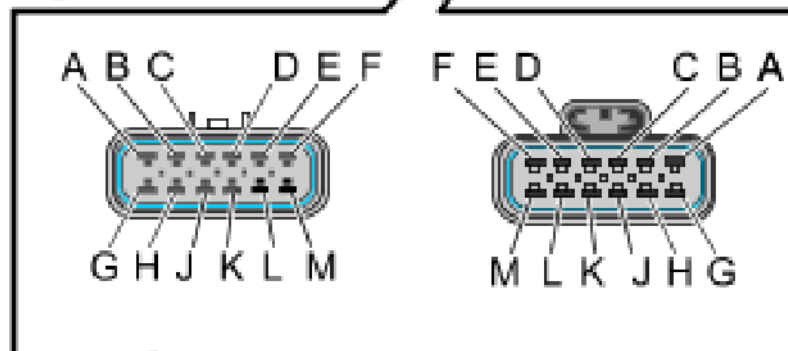
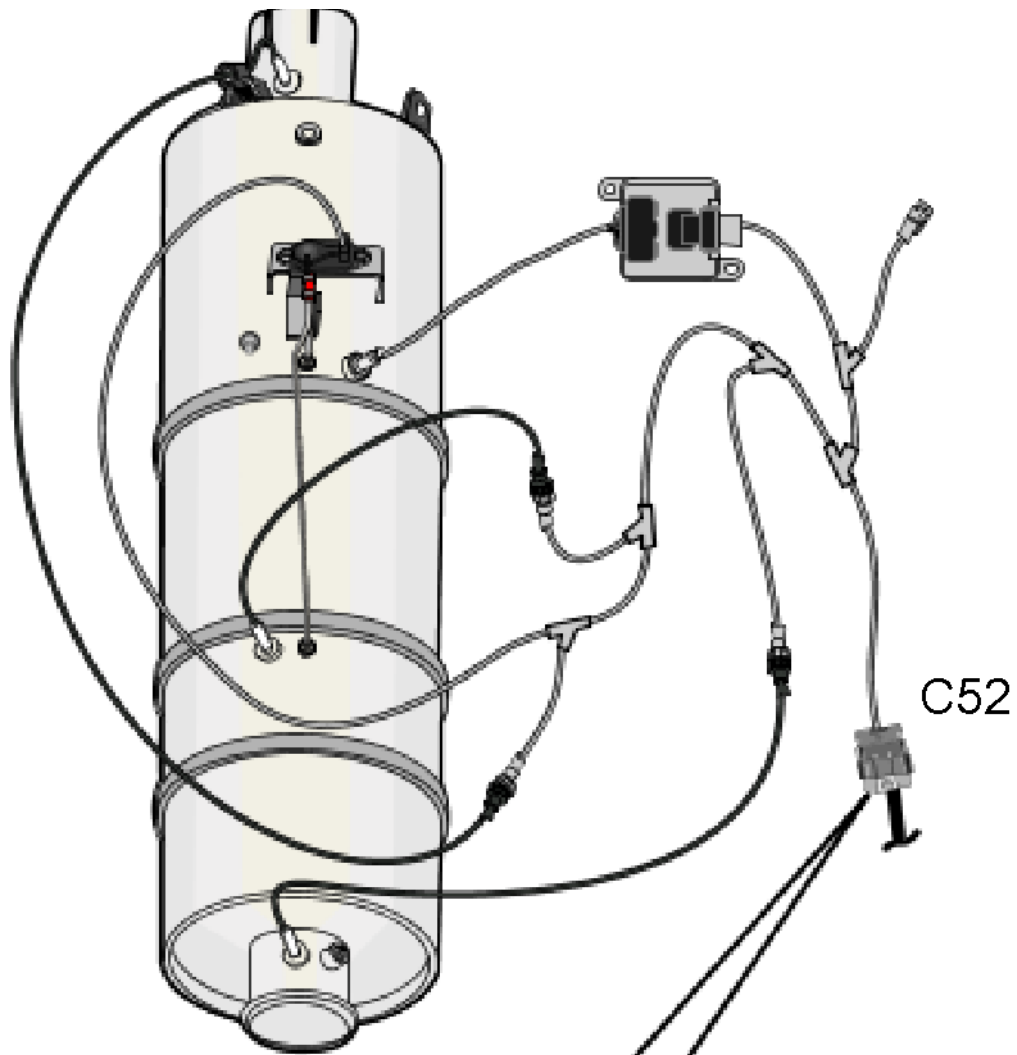
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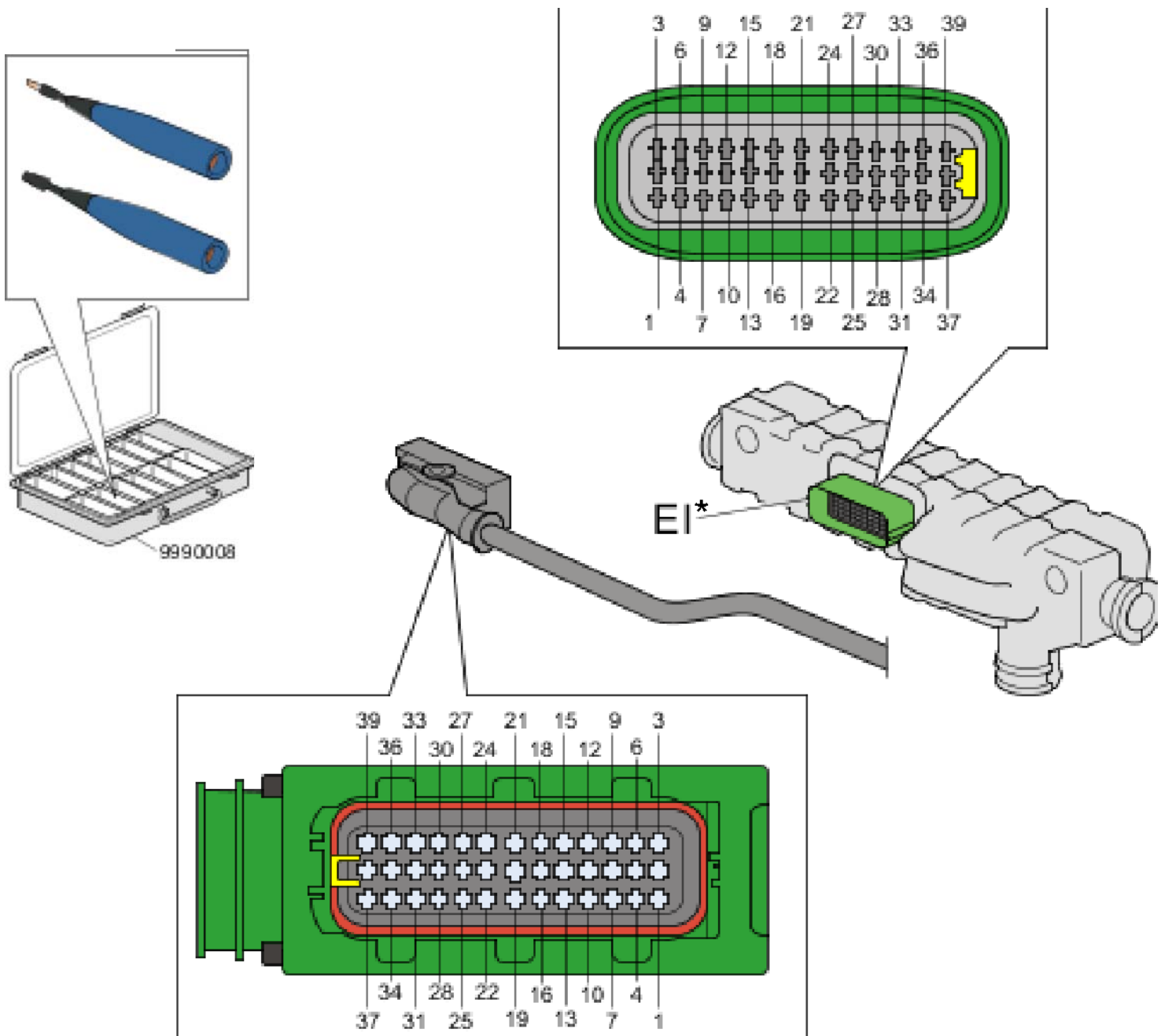
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US07, FCDPF, PinView, VBOC



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

