Installation guide

DualPass gen1

VOLVO FH4 Euro 4/5

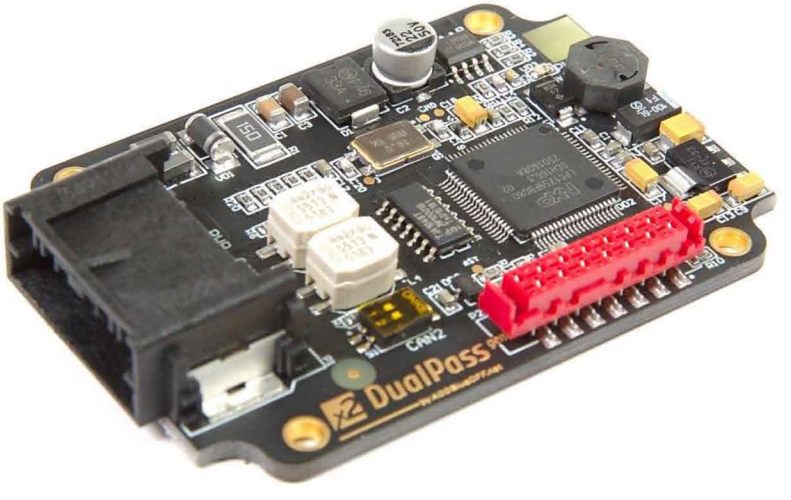


Table 1. Module Pin assignments

№	Color	Type	Function	Current, мА
1	Red	Power	Module source +12/24 V	15
2	Brown	Ground	Ground - Terminal 31	-
3	Yellow	CAN1	CAN-High (Backbone 1)	-
4	N / C	-	-	-
5	Green	CAN1	CAN-Low (Backbone 1)	-
6	Gray	CAN2	CAN-High (Powertrain)	-
7	N / C	-		-
8	Orange	CAN2	CAN-Low (Powertrain)	-

Pin assignments

Pin № 1. Module power source. Must be connected to the wire number **2020** - pin **26 (**Ignition signal**)** of **XC203.**

Pin № 2. Ground – **Terminal 31.** Must be connected to the wire number **1** - pin **7 (**terminal **31)** of **XC213**.

Pin № 3. CAN bus. Must be connected to the wire number **7004** - pin **1 (Backbone 1 - CAN High)** of **XC203.**

Pin № 5. CAN bus. Must be connected to the wire number **7005** - pin **2 (Backbone 1 - CAN Low)** of **XC203**.

Pin № 6. CAN bus. Must be connected to the wire number **7036** - pin **3 (Powertrain - CAN High)** of **XC302** (Engine Interface).

Pin № 8. CAN bus. Must be connected to the wire number **7037** - pin **6 (Powertrain - CAN Low)** of **XC302** (Engine Interface).

Working modes description

Module works in 2 modes:

- **Without retarder**

- **With retarder**

After connection **Module** will automatically determinate truck version (with/without retarder). Working mode will be show by **Red LED**. If **LED** is steady on or off – No retarder version, if **Red LED** is flashing – it means that this version with retarder.

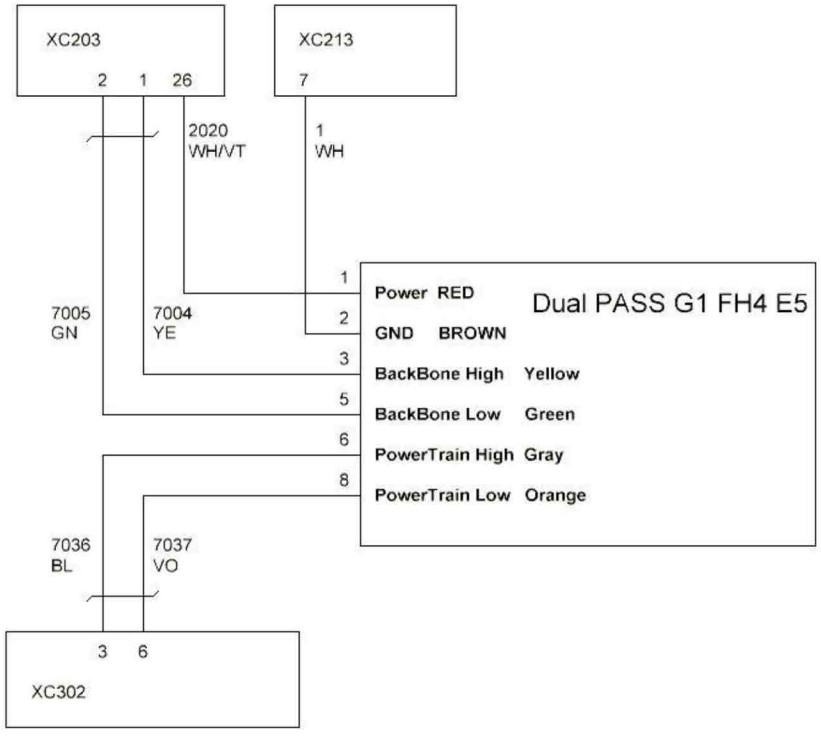
NOTE! Power disconnection for those versions is different.

For without retarder version after connection **Module** will read part numbers of the **SCR** system automatically. After successful reading part numbers the **Red LED** will switch off. Usually it can take **5-10 sec** after ignition switch on. If **Red LED** is steady on after **10 sec** you need switch off and switch on ignition again.

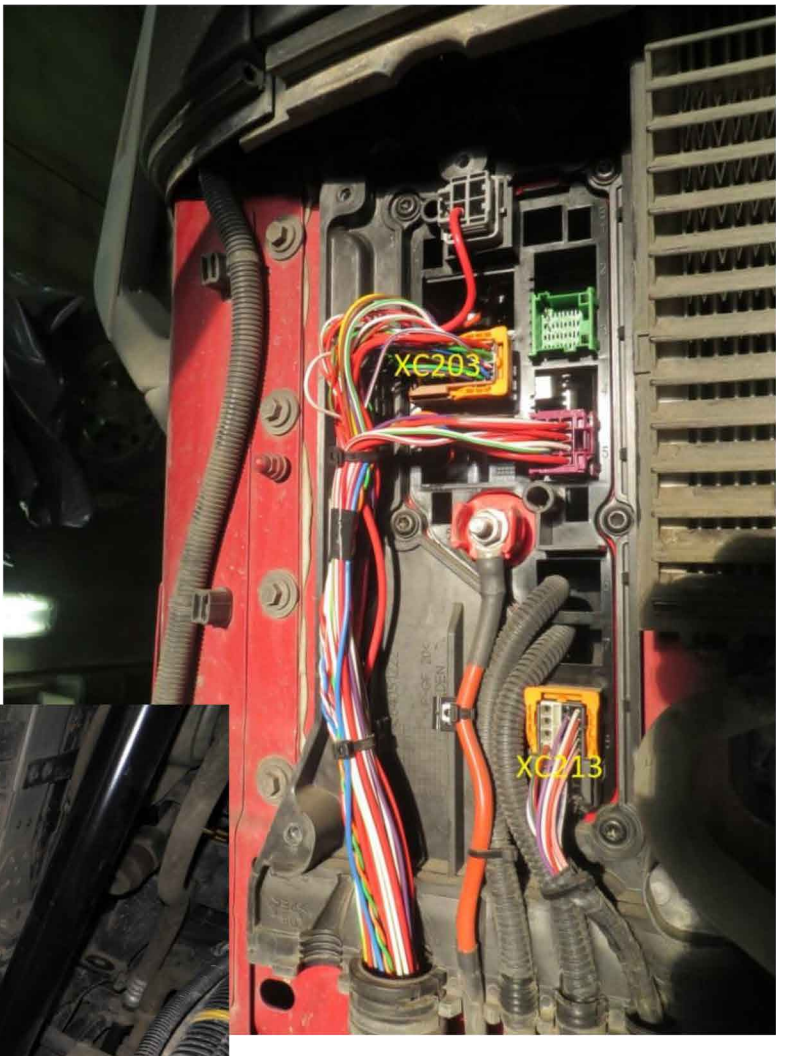
For with retarder version do not need read part numbers.

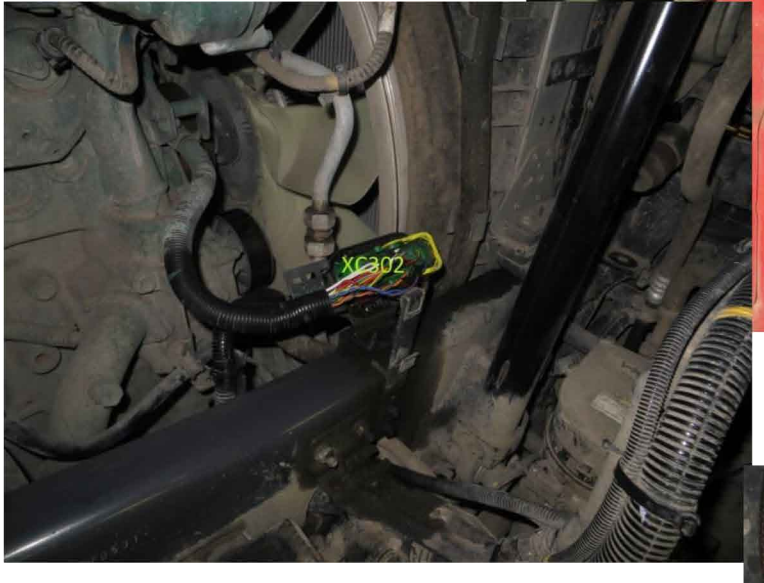
Connection diagram

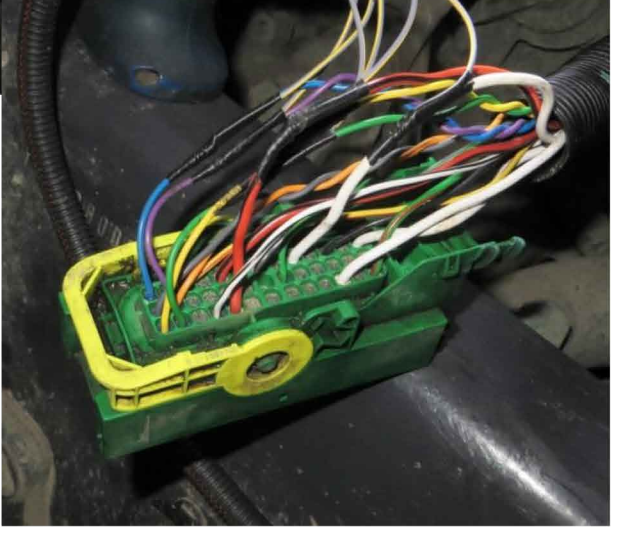
1. Connect to the sockets



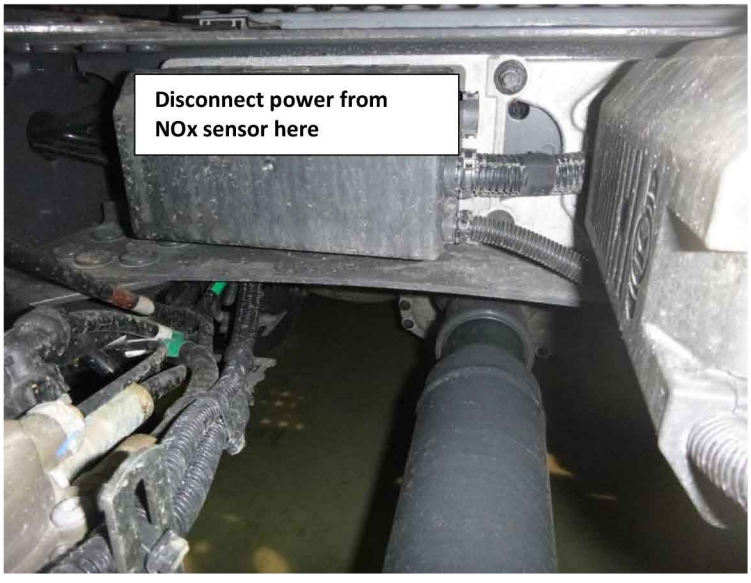
Sockets location



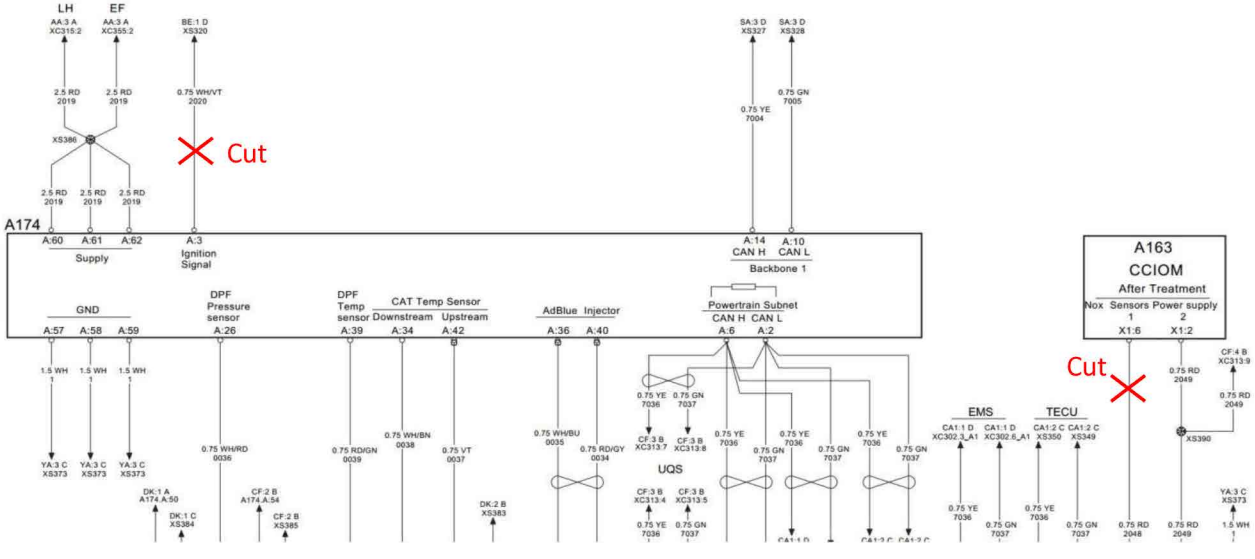




2. **Disconnect power from NOx sensor**

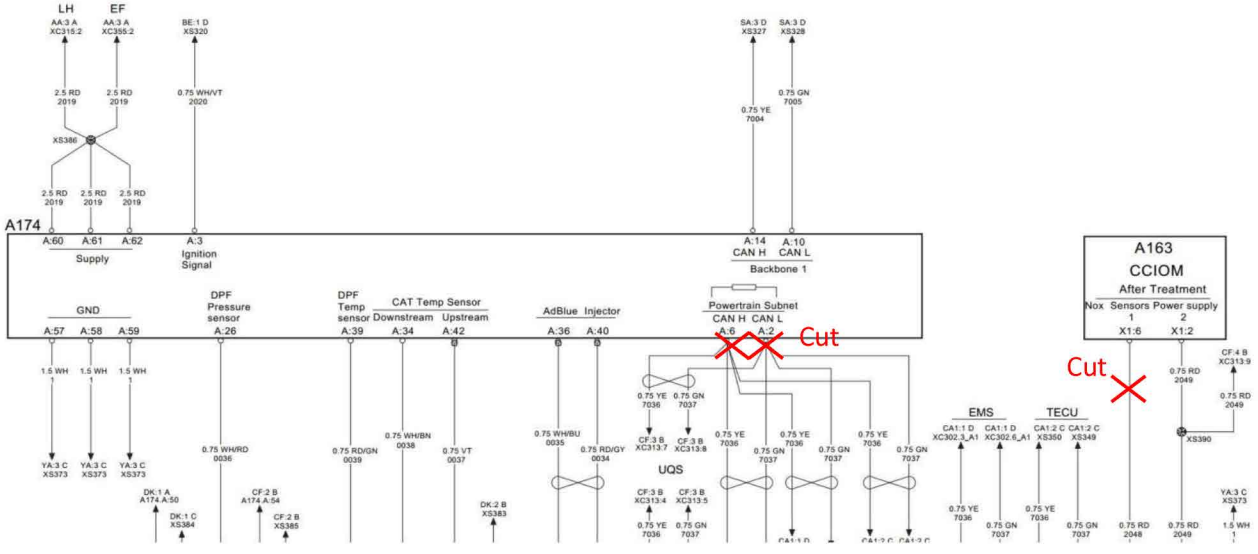


3. **Disconnect Power from SCR module and NOx sensor (WITHOUT RETARDER VERSION)**

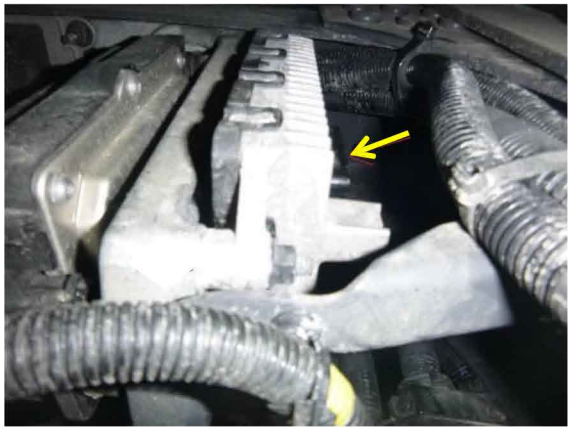


Connector of A174

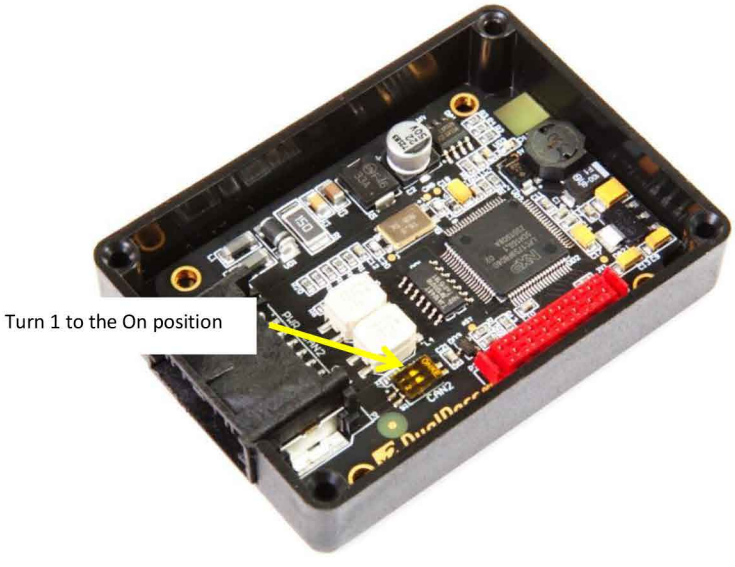
4. Disconnect CAN bus from SCR module and NOx sensor (WITH RETARDER VERSION)



Connector of A174



5. Switch On SW1 on the emulator plate (CAN1 120 Ohm resistance) **(WITH RETARDER VERSION)**



Technical specifications

Property	Value
Power supply, V	8 .. 36
Power consumption in waiting mode, мА	5
Power consumption, мА	14
Cable length, мм	2500
Operating temperature, C	– 40 … + 85
Storage temperature, C	– 40 … + 85
Maximum relative humidity, %	95
Dimensions, мм	70 x 50 x 22
Weight, g	42
Box waterproof level	IP55