

SCR Emulator Volvo-Renault EURO 6 V3 (with and without retarder) installation manual

SCR Emulator Volvo-Renault EURO 6 V3 (for trucks with and without retarder) is a device made to override SCR system on supported Volvo and Renault trucks. This manual shows the installation process for Volvo FH4 EURO 6 (without retarder) truck. However, manual includes all the necessary information for installation on other supported trucks.

This AdBlue emulator (SCR emulator) is compatible only with Volvo/Renault EURO 6 type vehicles, and you can't use it on older trucks with EURO 5 or EURO 4 and lower standard engines. Also, we need to mention that you can use this emulator on Volvo/Renault vehicles with the latest firmware (other emulators can't work correctly on updated trucks with the latest firmware versions). Incompatible with cars made by other manufacturers even if these vehicles equipped with EURO 6 type engines.

We highly recommend you delete all DTC (Diagnostic Trouble Codes) errors from OBD (On-Board Diagnostics) system before you proceed with the installation process. The best option is to use original Volvo 88890300 or any other compatible diagnostic scanner. If you noticed new DTC errors after installation, please recheck the system with the diagnostic scanner because there might be errors related to incorrect installation. For the safety reasons we highly recommend starting the installation by connecting a ground wire, it's safer for the emulator and your truck.

SCR Emulator Volvo-Renault EURO 6 V3 wiring

Nr.	Color	Type	Function	Current
1	White	Power	Module suply +12/24V	15mA
2	Brown	Ground	Ground – Terminal 31	
3	Yellow	CAN1	CAN HIGH (Backbone 1)	
4	Green	CAN1	CAN LOW (Backbone 1)	
5	Grey	CAN2	CAN HIGH (Engine subnet)	
6	Blue	CAN2	CAN LOW (Engine subnet)	

SCR Emulator Volvo-Renault EURO 6 V3 connection points

- White – emulator power source – must be connected to the wire number 2020 – pin 26 (Ignition signal) of the XC203
- Brown – ground – must be connected to pin 31 of the vehicle (pin 10 of the XC203 connector)
- Yellow – CAN bus 1 – connect to the wire 7004 – pin 1 of the XC203
- Green – CAN bus 1 – connect to the wire 7005 – pin 2 of the XC203
- Grey – CAN bus 2 – connect to the wire 7038 – pin 34 of the XC302
- Blue – CAN bus 2 – connect to the wire 7039 – pin 36 of the XC302

SCR Emulator Volvo-Renault EURO 6 V3 LED status indicators

There are five LED indicators used to show the status of the emulator. Each LED indicator represents the state of a particular system and its condition.

LED 1 – CAN1 status

- LED flashes – OK, connected, working.
- LED off – ERROR! Check the CAN1 connection.

LED 2 – CAN2 status

- LED flashes – OK, connected, working.
- LED off – ERROR! Check the CAN2 connection.

LED 3 – SCR module status

- LED off – OK, SCR module disconnected successfully.
- LED on – ERROR! SCR module still connected.

LED 4 – NOx module status

- LED off – OK, NOx module disconnected successfully.
- LED on – ERROR! NOx module still connected.

LED 5 – General status

- LED on – ERROR! Fault reading truck systems (switch ignition on/off).
- LED flashes – OK! Retarder system.
- LED on/off within 30 seconds – OK! No retarder system.

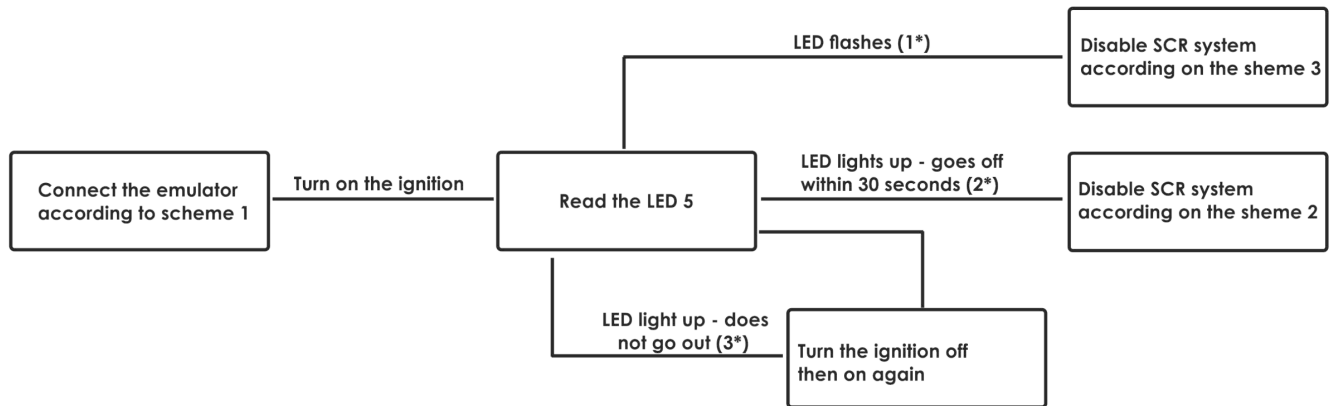
SCR Emulator Volvo-Renault EURO 6 V3 retarder system setting

V3 emulator has two switches on it. These used to switch between emulator support modes for trucks with retarder system and trucks without this system. Each switch has its number.

To enable retarder system support (for trucks with retarder system) – both switches in position “ON”.
To disable retarder system support (for trucks without retarder system) – switch number 1 in position “OFF”, switch number 2 in position “ON”

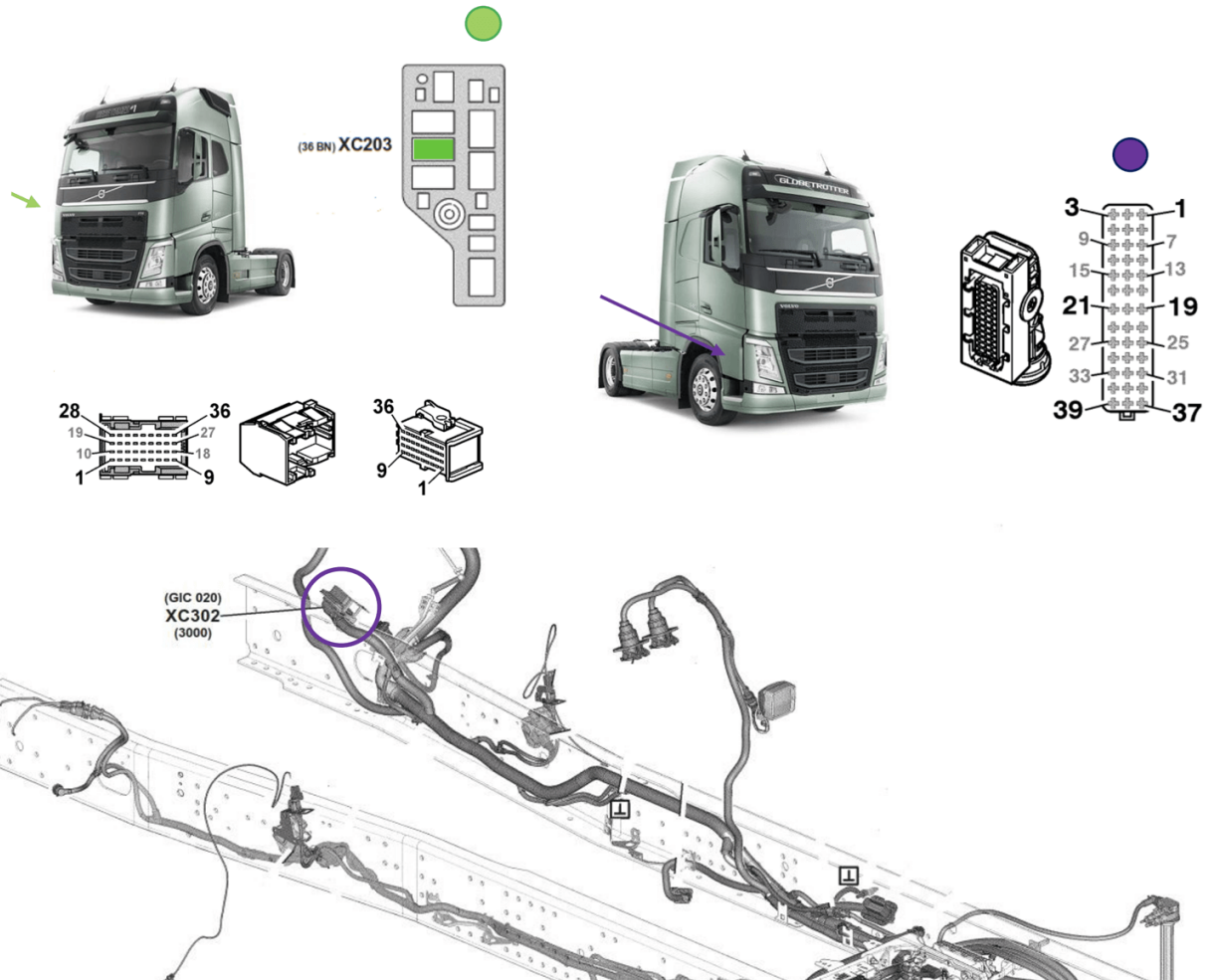
One of these configurations is necessary for correct emulator operation. There are no alternative configurations, and you must check this setting before the installation.

SCR Emulator Volvo-Renault EURO 6 V3 SCR system deactivation scheme



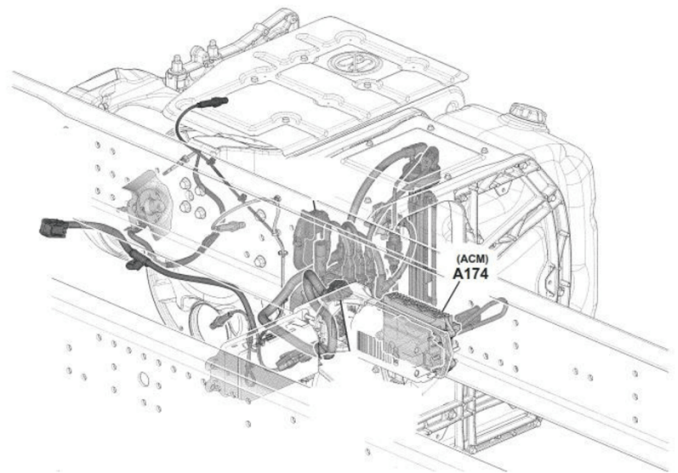
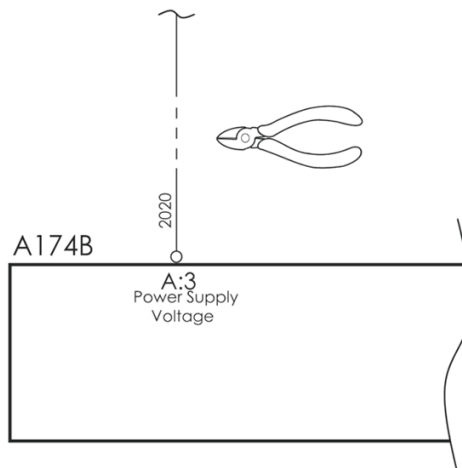
Emulator Connection – Diagram #1

Please connect according to scheme the socket XC203 located in the transition panel of the cabin-frame, to the XC302 connector located on the vehicle frame in the front, left part of the chassis.



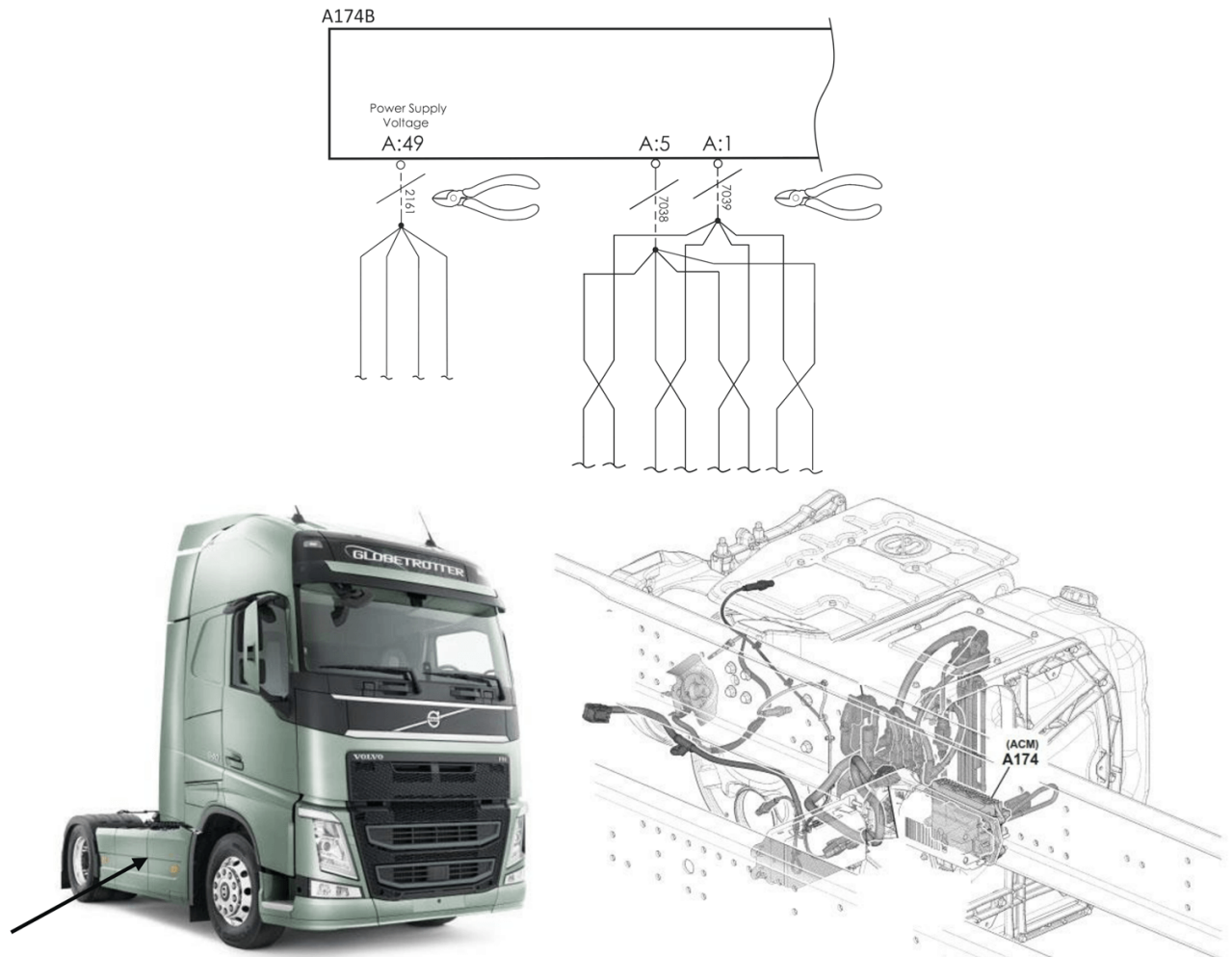
SCR system power disconnection – Diagram #2

Disabling the SCR system (vehicle version without retarder) involves power disconnection of the SCR module (located in the center of the vehicle frame). It is necessary to disconnect the wire 2020 connected to A connector terminal 3. A connector terminal 3 is labeled as "A:3 Power Supply Voltage".



SCR system power disconnection – Diagram #3

Disabling the SCR system (vehicle version with retarder) involves disconnecting the CAN line from the SCR module (located in the center of the vehicle frame), power disconnection of the NOx sensor (disconnect the supply of the NOx sensor from the SCR module located in the center of the vehicle frame). Move to "ON" position switch 1 (located inside the emulator).



Attention! SCR emulators are illegal in some countries. You should check your local laws or laws of those countries that you might cross with your vehicle. SCR emulator alters SCR system thus makes the vehicle to produce higher exhaust gas emissions. EURO 6 and EURO 5 vehicles equipped with SCR emulator device will no longer match those EURO standards. Our SCR emulators designed for countries where environmental rules are less strict, and there are no requirements for vehicles to satisfy EURO 6 or EURO 5 regulations. By purchasing any SCR emulator, you assume full responsibility for the use of the device. It's your personal decision to use an emulator or not. We will not accept any liability for any consequences associated with usage of SCR emulator devices.