

Assembly instruction OptiFlow Volvo S40/V50

Proposal of tool:

Catch, Extender, Socket 7,10 mm ¼
Catch, Extender, Socket 15mm ½
Torx 25, 30
Wrench 8mm
Phillips screwdriver
Wire nipper
Lift jack (Dumbcraft)

Material overview:



1.

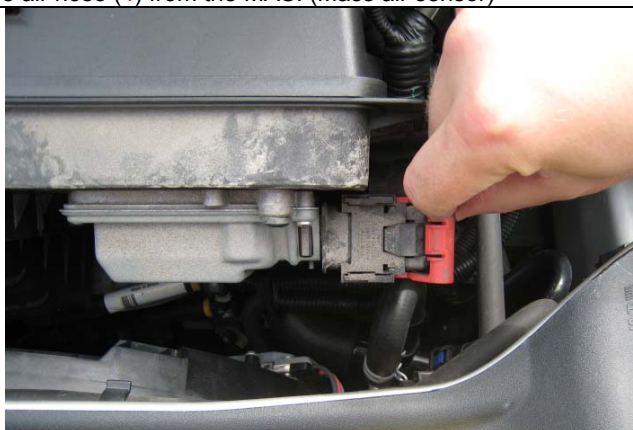
Remove the protective cover from the ECU (1). (Electronic control unit) (Pull up to remove) Remove the inlet pipe (2). Remove screws and turn pipe 45° clockwise. Remove vacuum hose (3) from the inlet. Press the red locking ring in, and pull the vacuum hose out. Remove air hose (4) from the MAS. (Mass air sensor)



2.

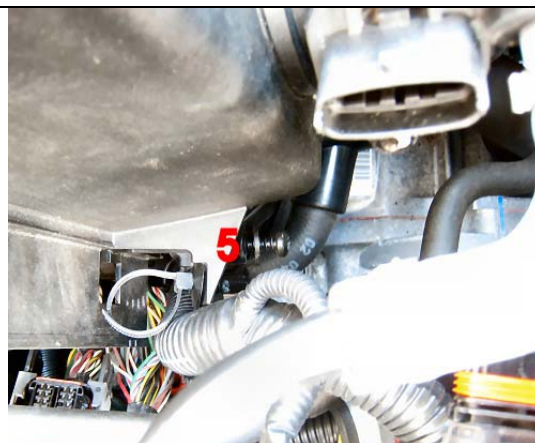
Disconnect cable from the battery.

Remove the harness connector from the MAS.



3.

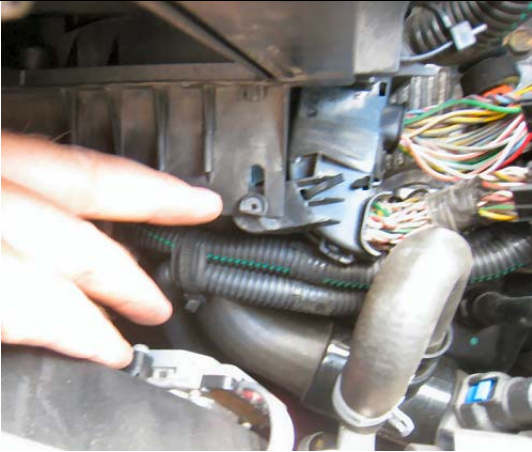
Remove the harness connector from the ECU. Snap off the two red locks and pull out the harness connector. Remove the electrical harness from the air filter box. Cut the straps holding it.



4.

Remove the lower screw (5) that holds the electrical harness.

5.



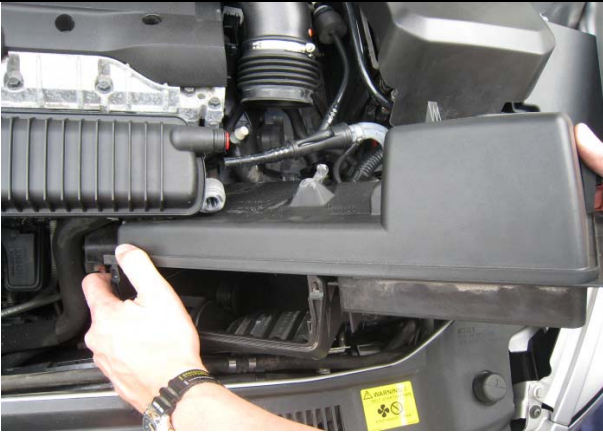
Turn the electrical harness and disconnect it from the air filter box.

6.



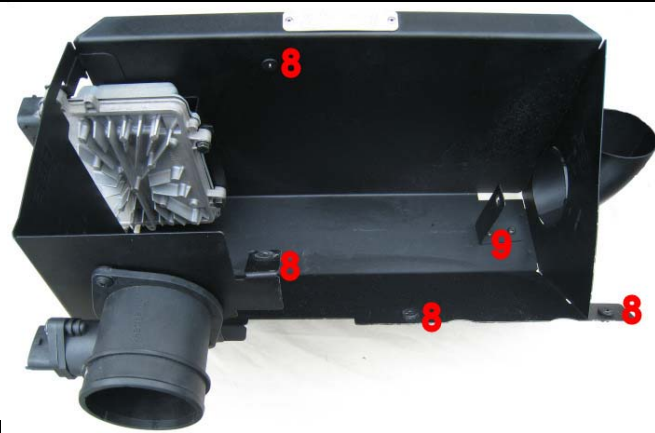
Remove the two bolts from the right hand side engine mounting. Remove the protective cover from under the engine. Put the lift jack under the oil pan and lift up the engine slightly, max 10mm. Push the engine backwards.

7.



Pull the airfilter box straight up until lets go of the rubber holders. Then pull the box to the left and turn it at the same time upwards to release it. Remove the ECU and the MAS from the air filter box.

8.



Assemble the 6 plastic clips to the plate (8). Assemble the MAS and the ECU to the plate . Assemble the rod (9). (as picture shows)

9.



Assemble the plastic distance to the upper rubber holder(7).

10.



Assemble the plate. Push the plate down, make sure that the steering pin fits to the lower rubber holder (6) ← see picture 9.

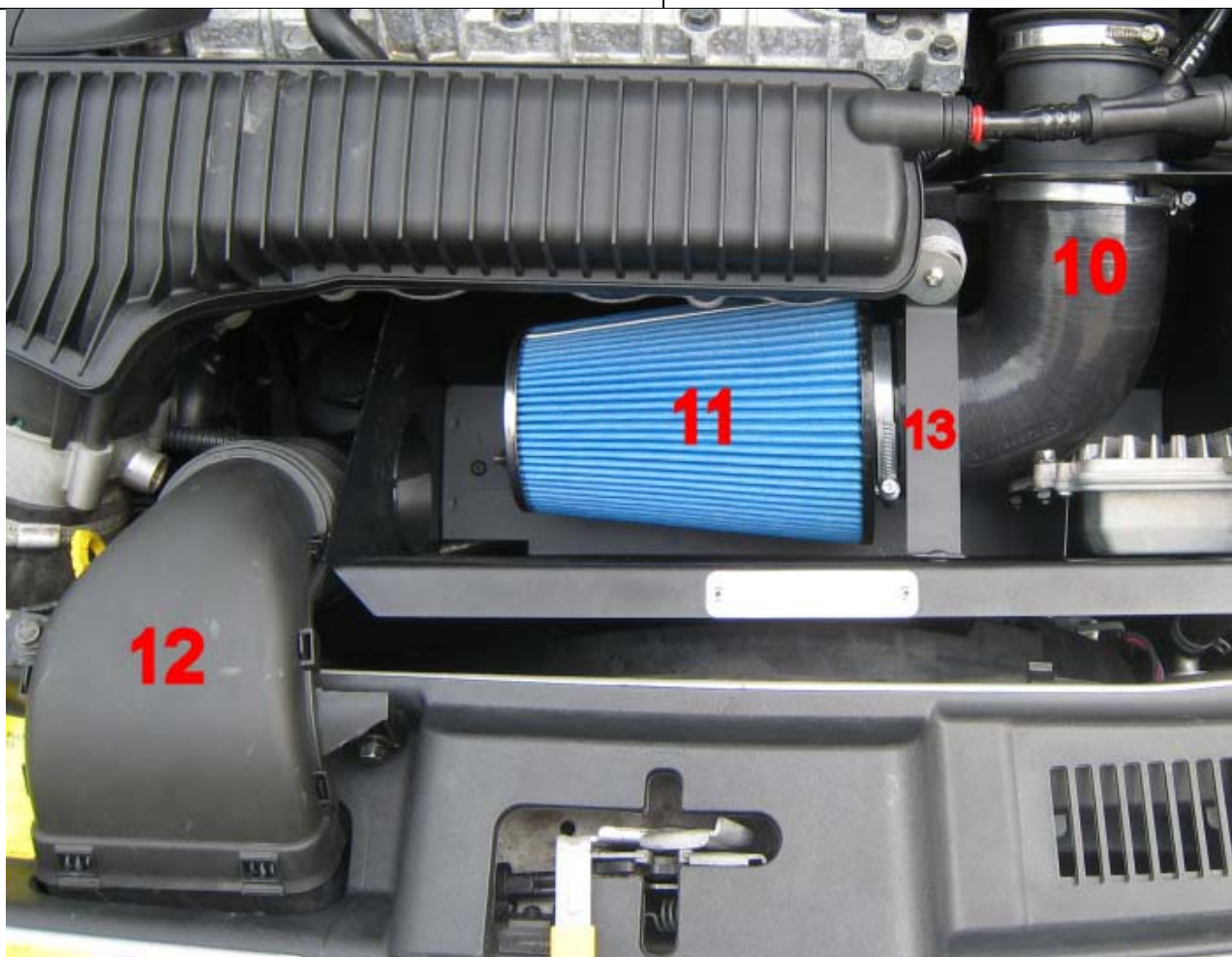
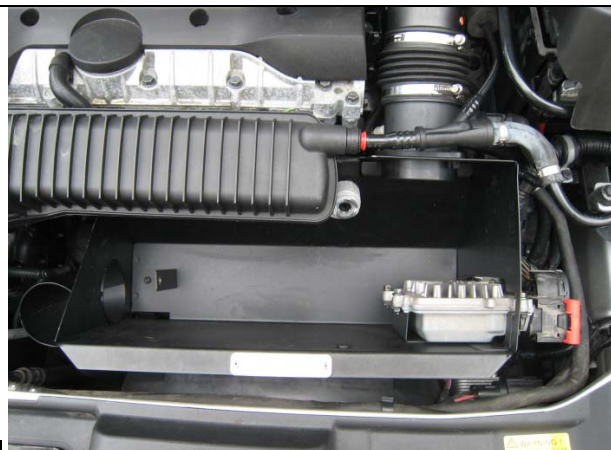
11.

Assemble the two screws. Right hand side



12.

Assemble the harness connector and the air hose to the MAS. Assemble the two harness connectors to the ECU. Snap on the red locks. Assemble the vacuum hose to the inlet.



Assemble BSR air hose (10) and BSR air filter (11).
Assemble the rod (13).
Lower the engine and assemble the bolts to the engine mounting.
Assemble the inlet pipe (12) and reconnect the battery.

Enjoy!