

Document Title: Engine, removing	Function Group: 210	Information Type: Service Information	Date: 2015/2/28
Profile: EXC, EC160D L [GB]			

Engine, removing

Op nbr 210-070

WARNING

Risk of burns - stop the diesel engine and allow it to cool down before starting any work.

WARNING

Removal of residual pressure from the circuit must be done prior to any maintenance.

NOTE!

Cable ties and clamps that secure hoses and electrical wiring must be removed and then replaced when installing components.

NOTE!

Disconnected hoses, lines and connections must be plugged. Oil that drains from hoses, lines and connections should be collected in a container.

1. Place the machine in the service position B. See [091 Service positions](#)
2. Turn off the battery disconnect switch.
3. Drain the coolant in a collection container. See [261 Coolant changing](#).
4. Remove the muffler (DPF) hood and the radiator hood.

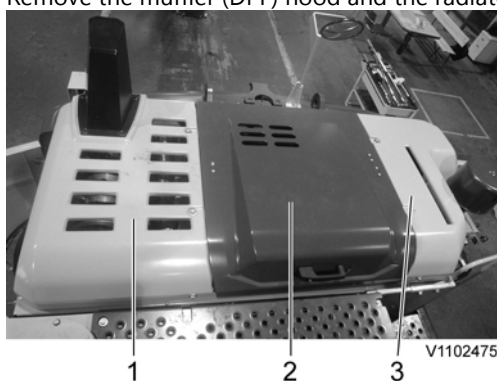


Figure 1

1. Muffler (DPF) hood
 2. Engine hood
 3. Radiator hood
5. Remove the engine room cowl frame with the engine hood using a lifting device.

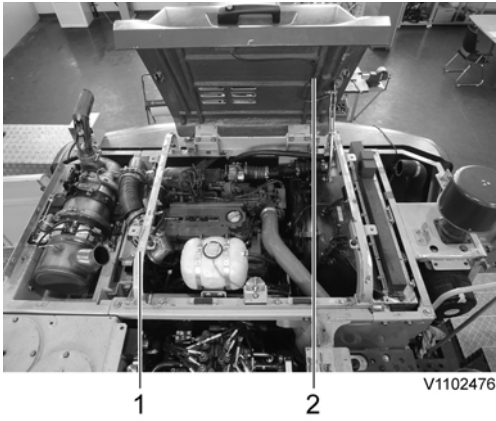


Figure 2

1. Engine room cowl frame
2. Engine hood

6. Remove the clamps, air inlet hose and disconnect the air pump hose.

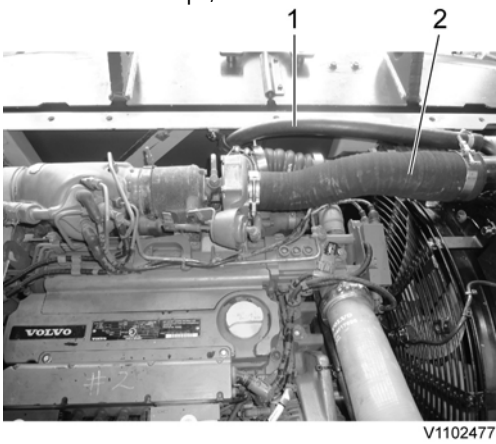


Figure 3

1. Air pump hose
2. Air inlet hose

7. Remove the clamps and the charge air cooler tubes.

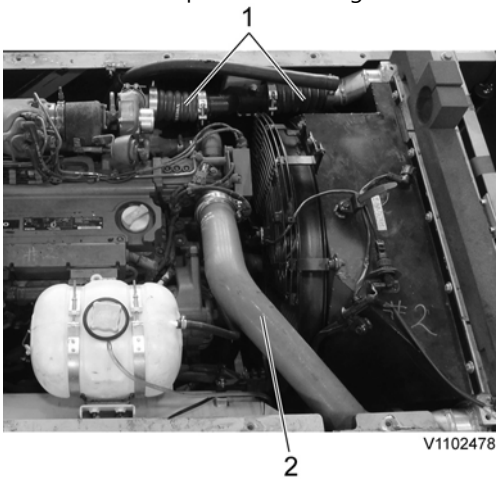


Figure 4

1. Charge air cooler tube (Outlet)
2. Charge air cooler tube (Inlet)

8. Remove the clamp and disconnect the exhaust pipe.

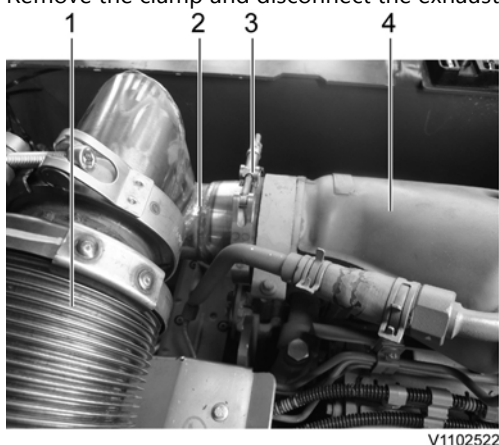


Figure 5

1. Exhaust flexible tube
2. Exhaust pipe
3. Clamp
4. Burner

9. Remove the engine room under covers.

10. Disconnect the hose and remove the clamps on the expansion tank

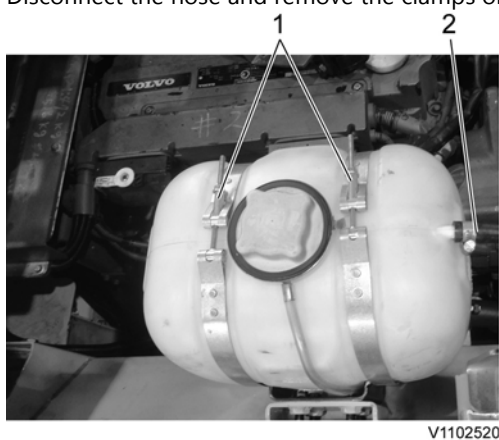


Figure 6

1. Clamp
2. Hose

11. Disconnect wire harness connector and the hoses.
Remove the expansion tank

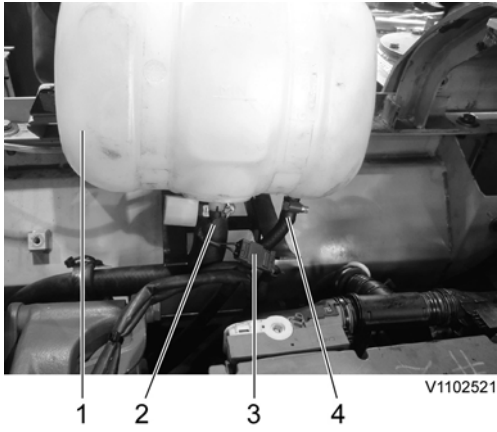


Figure 7

1. Expansion tank
2. Hose
3. Wire harness connector
4. Hose

12. Remove the clamps and disconnect the radiator hoses.

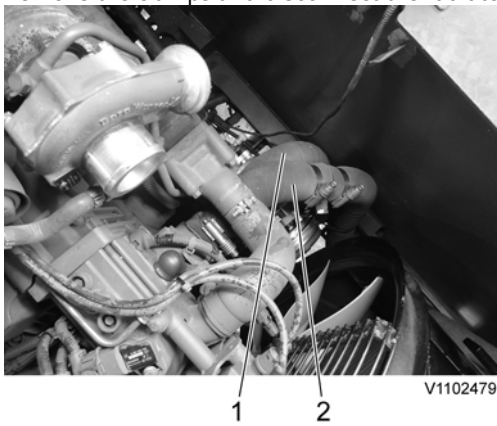


Figure 8

1. Radiator hose (Outlet)
2. Radiator hose (Inlet)

13. Remove the clamps and disconnect the connector.

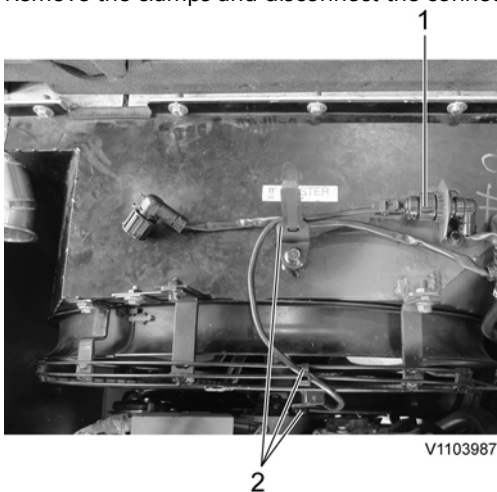


Figure 9

1. Connector
2. Clamp

14. Remove the cooling fan guard.

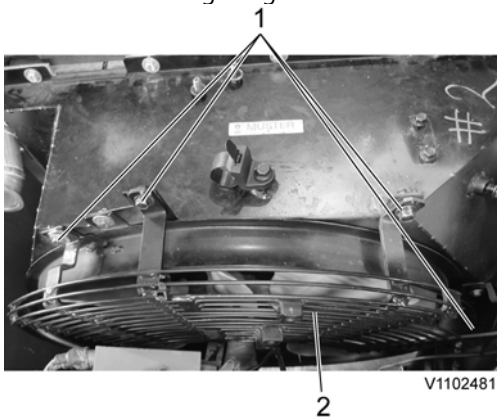


Figure 10

1. Screw
2. Cooling fan guard

15. Remove the mounting screws and lay down the cooling fan inside the radiator shroud safely.

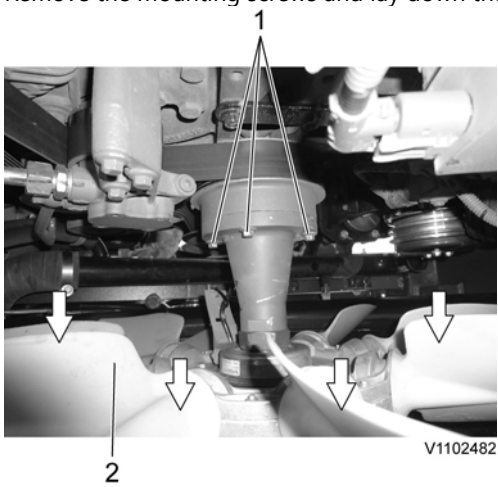
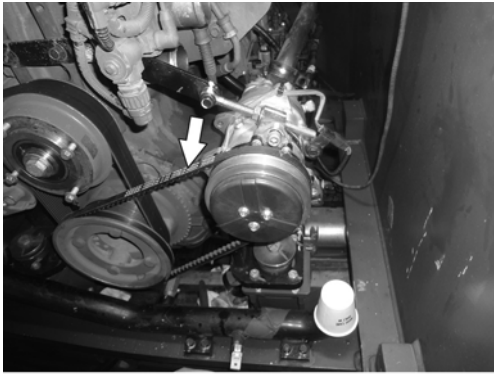


Figure 11

1. Screw
2. Cooling fan

16. Remove the main pump. See [913 Hydraulic pump, replacing](#)

17. Remove the air conditioner compressor belt.



V1102485

Figure 12

18. Disconnect the wire harness connector, remove the compressor and lay it down on the frame.



Do not disconnect or loosen connections for the air conditioning unit (AC). Risk of gas leakage.



V1102486

Figure 13

1. Air conditioner compressor
2. Wire harness connector

19. Disconnect the engine oil remote hoses.



V1102487

Figure 14

1. Engine oil remote hose

20. Disconnect the engine block heater wire-harness and the cab heater hose.

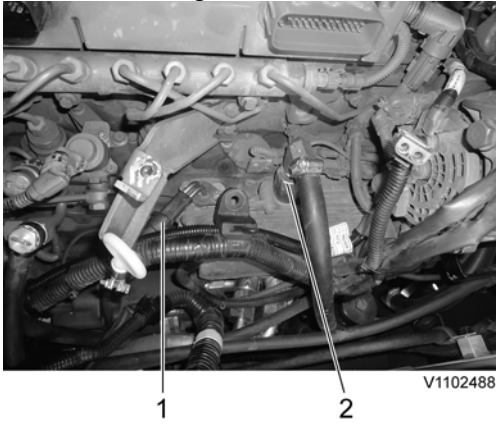


Figure 15

1. Engine block heater wire-harness (optional)
2. Cab heater hose (supply)

21. Disconnect the starter motor wire harness.

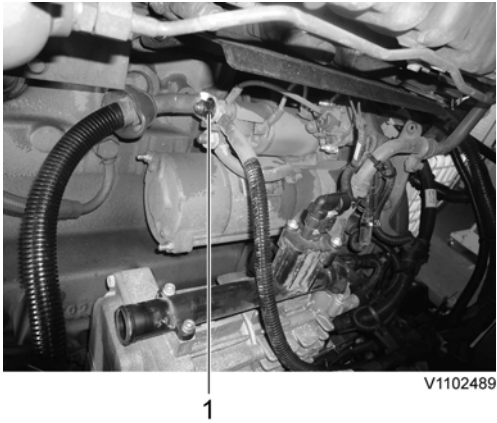


Figure 16

1. Starter motor wire harness

22. Disconnect the wire harness connectors.

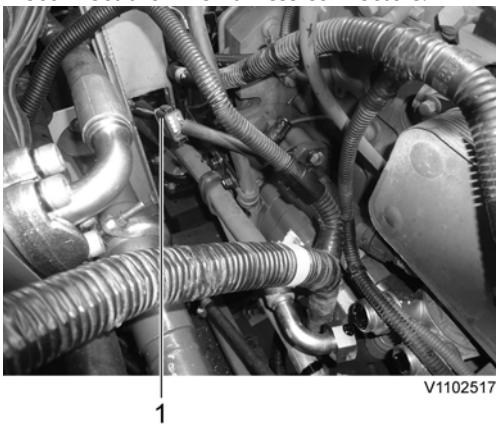


Figure 17

1. Connector

23. Disconnect the junction box connector.

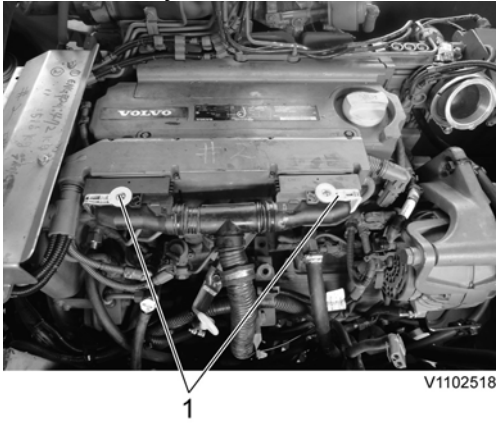


Figure 18

1. Junction box connector

24. Disconnect the fuel line hoses (4 pcs).

NOTE!

Ports must be plugged after disassembling hoses.

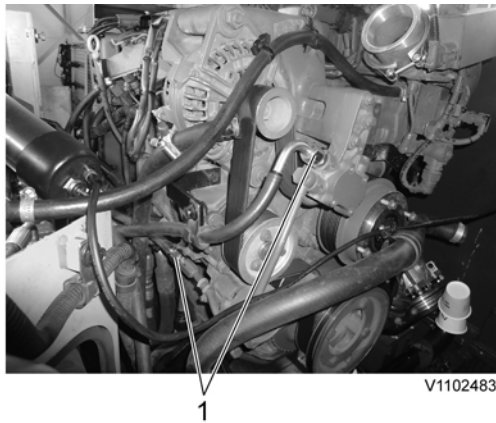
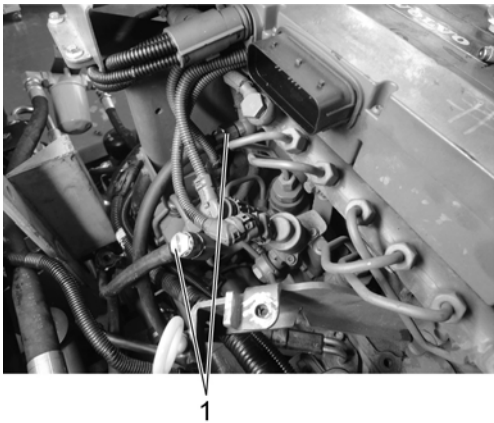
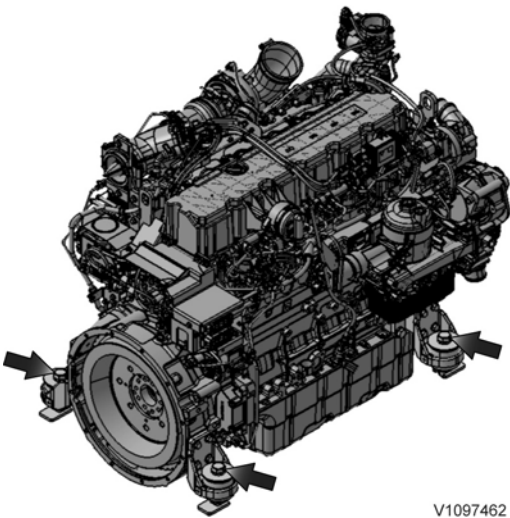


Figure 19

1. Fuel hose

25. Remove the four mounting screws.



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