Document Title: Component locations	· ·	Information Type: Service Information	Date: 2014/3/21
Profile: WLO, L60G [GB]			

Component locations

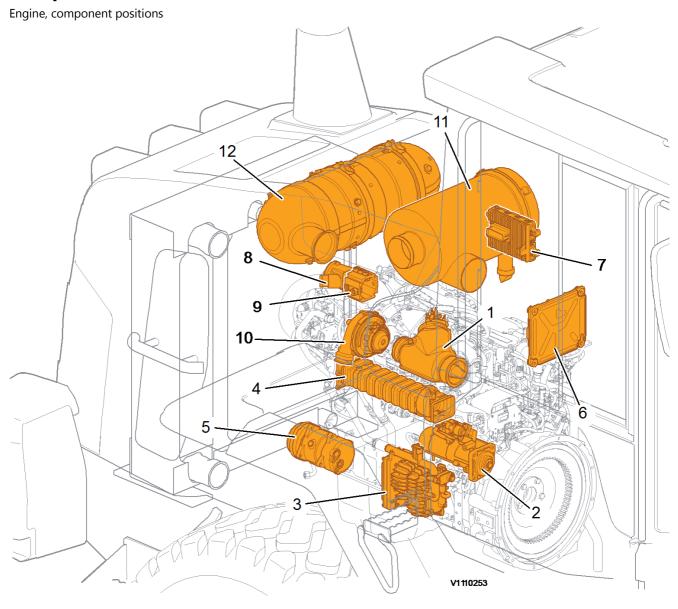


Figure 1

- 1. Burner
- 2. Starter motor
- 3. Air pump
- 4. EGR-cooler
- 5. AC compressor
- 6. E-ECU
- 7. ACM
- 8. Mixing chamber

- 9. Preheater
- 10. Turbocharger
- 11. Air cleaner
- 12. Muffler

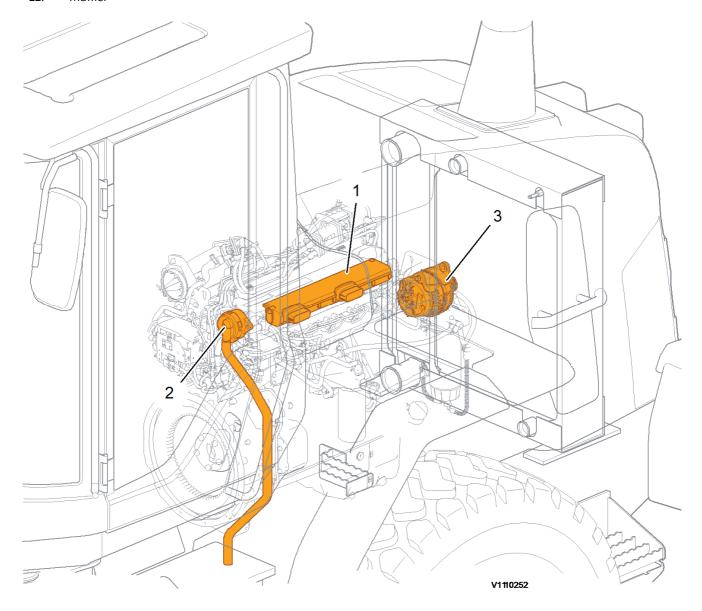


Figure 2

- 1. Electrical connections, grouping point
- 2. Crankcase ventilation, separator
- 3. Alternator



Document Title: VCADS Pro, Operations	Function Group: 200	Information Type: Service Information	Date: 2014/3/21	
Profile: WLO, L60G, L70G, L90G [GB]				

VCADS Pro, Operations

The following VCADS Pro operations are available for function group 2. Operations used when changing or working on components are mandatory.

Tests

Operation	Application
21006-3 Cylinder compression, test	Used when there is a suspicion of fault and/or at abnormal values/readings. This test indicates if there is any deviation in compression in any cylinder in relation to the other cylinders. As a first check this operation is both easy and fast to perform instead of a real compression test.
23017-3 Feed pressure, inspection	Used when there is a suspicion of fault and/or at abnormal values/readings.
23712-3 Injectors shut off, manual	Used when there is a suspicion of fault and/or at abnormal values/readings.
25410-3 Air pump exhaust aftertreatment, test	Used when there is a suspicion of fault and/or at abnormal values/readings.
25411-3 Burner exhaust aftertreatment, test	Used when there is a suspicion of fault and/or at abnormal values/readings.
25412-3 Components ASU, test	With this sub-test, the functions of the atomiser air valve, the main air valve, the fuel shut-off valve and the fuel pump are checked.
25457-3 Diesel Particulate Filter Service Regeneration	Used when the soot load is over 1.7. See 254 Exhaust Aftertreatment System, description Before starting service regeneration check the differential pressure over the diesel particle filter so that it is within stated value according to the service information. This is to make sure that the DPF won't get damaged by the service regeneration. After the service regeneration and when the exhaust temperature has stabilized to a normal level check the differential pressure over the DPF again so that it is within stated value according to the service information. This is to determine that the filter has been regenerated correctly and that it is not clogged with ash.
26385-3 Reversible cooling fan, test	When there is a suspicion of fault and/or at abnormal values/readings.
27102-3 Accelerator pedal, test	At abnormal values/readings.
28407-3 Sensor values, monitoring	When there is a suspicion of fault and/or at abnormal values/readings.
28420-3 Flywheel and camshaft signal, test	Used when there is suspicious of faulty signals or faulty connected sensor.
29332-3 Exhaust gas circulation, function test	Used when there is a suspicion of fault and/or at abnormal values/readings.

Programming

Operation	Applica	tion					
25801-3 MID 233 Control unit, programming	When	changing	ACM	or	only	reprogramming.	See
	254 ACN	<mark>//, replacing, no</mark>	on-progra	mmed			
28423-3 MID 128 ECU, programming	When	changing	ECU	or	only	reprogramming.	See
	200 E-ECU, MID 128, changing non-programmed ECU						

Document Title:	Function Group:	Information Type:	Date:		
Engine belts, replacing	200	Service Information	2014/3/21		
Profile:	•				
WLO, L60G [GB]					

Engine belts, replacing

Op nbr 200-200

- 1. Place the machine in service position according to 191 Service position.
- 2. Open the engine hood.

3. Remove the plastic protection (24 screws).



Figure 1

- 1. Plastic protection
- 4. Remove the AC-belt (3 screws).

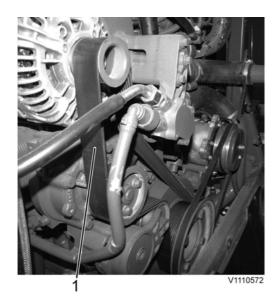


Figure 2

1. Alternator belt



Figure 3Loosen the tensioning pulley and remove the belts.

5. Remove the alternator belt.

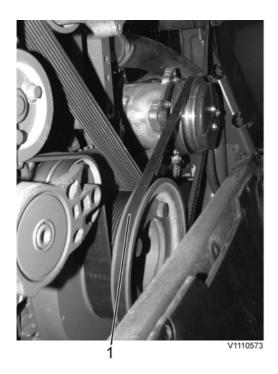


Figure 4

- 1. AC-belt
- 6. Install new alternator belt and AC-belt.
- 7. Install the plastic protection.
- 8. Restore the machine.



Document Title: Compression test	Function Group: 210	Information Type: Service Information	Date: 2014/3/21
Profile: WLO, L60G [GB]			

Compression test

Op nbr 210-002

885812 Timing tool 9988539 Pressure gauge 88800070 Spanner 88830197 Rotation tool 88830205 Adapter 88830206 Counterhold

This operation also includes required tools and times for applicable parts of the following operations: 214 Valves, adjusting

NOTICE

Maintain greatest possible cleanliness when working on the fuel system.

- 1. Place the machine in service position 1, see: 191 Service position
- 2. Open the engine hood.

NOTICE

Plug all pipes, hoses and connections when removing.

4. Unplug the connector and remove the hoses (2 pcs.) between the air cleaner and the turbo (3 clamps).

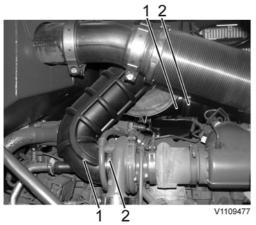


Figure 1

- 1. Hoses
- 2. Clamps
- 5. Remove the bracket for the air cleaner (2 clamps). Remove the air cleaner.

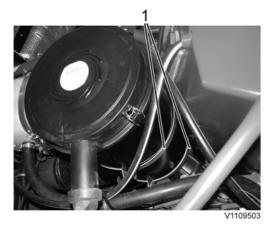


Figure 2

- 1. Clamps
- 6. Remove the dust cover between the valve cover and the inlet pipe. Unplug the connector and remove the control unit (3 screws).

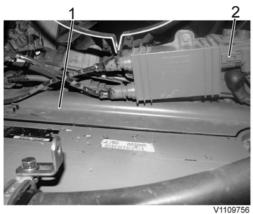


Figure 3

- 1. Dust cover
- 2. Connector
- 7. Unplug the connectors (2 pcs.) Remove the screws (2 pcs.) for the cable holder. Place the cable holder in appropriate work position.

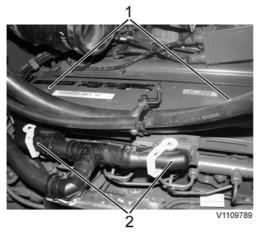


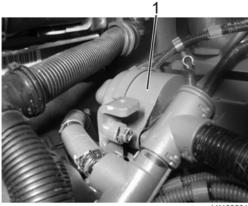
Figure 4

- 1. Bolt
- 2. Connectors
- 8. Unplug the connectors (2 pcs.) for the injectors.



Figure 5

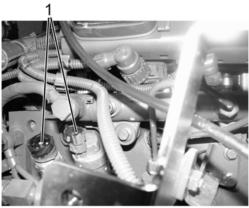
- 1. Connector
- 9. Remove the crankcase ventilation (2 bolts) and the valve cover (14 bolts).



V1109801

Figure 6

- 1. Crankcase ventilation
- 10. Unplug the connectors (2 pcs.) for the FCV and the high-pressure pump.



V110980

Figure 7

1. Connectors

11. Install 88800070 Spanner to remove the injector pipes (6 pcs.) and the rail pipes (2 pcs.) from the pump.

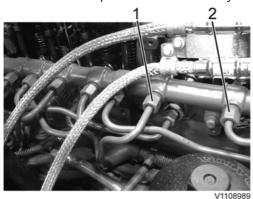


Figure 8

- 1.
- Rail pipe Injector pipe 2.
- 12. Remove the feed line. Attach a 10 mm (0.4 in.) hose to the feed line for circulating the fuel to the tank.



Figure 9

1. Feed line

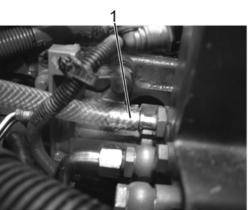


Figure 10

- 1. Hose for fuel circulating
- 13. Remove the nut (6 pcs.) and the nozzle (6 pcs.) for the injector (6 pcs).

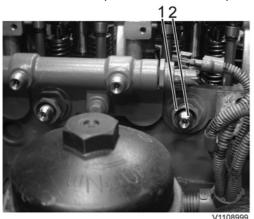


Figure 11

- 1. Nut
- 2. Nozzle
- 14. Disconnect the electric connections (12 pcs.) from the injectors and remove the screws (6 pcs.) for the bracket. Remove the cable harness (2 screws).

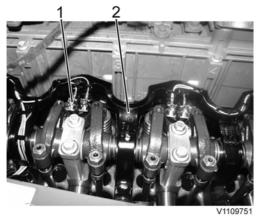


Figure 12

- 1. Electric connections
- 2. Cable harness
- 15. Replace the injector, use: 88830206 Counterhold.



Figure 13

1. 88830206 Counterhold

NOTE!

The engine must cool down for approx. 30 minutes and the oil temperature must not exceed 80 °C (176 °F).

- 16. Check that the valve clearances are correct, adjust as needed, see: 214 Valves, adjusting.
- 17. Install the compression test equipment: 88830205 Adapter, 9988539 Pressure gauge. Run the engine with the starter motor for 5–10 seconds. Repeat the procedure for all the other cylinders. The difference in compression pressure should not exceed 15%.

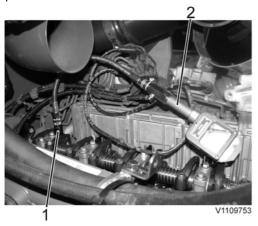


Figure 14

- 1. 88830205 Adapter
- 2. 9988539 Pressure gauge
- 18. Remove the compression test equipment.
- 19. Install the injectors with new copper gaskets. Install the nut and the nozzle for the injectors. Tightening torque, attaching yoke, see: 230 Tightening torque, fuel system
- 20. Connect the electric connections for the injectors. Install the cable harness.
- 21. Install new fuel delivery lines. Tightening torque, see: 230 Tightening torque, fuel system
- 22. Remove the hose between the fuel feed pump and the fuel tank. Connect the fuel hose to the fuel feed pump.
- 23. Plug in the connectors for the FCV and the high-pressure pump.

- 24. Install the valve cover and the crankcase ventilation. Tightening torque, see: 214 Valve system, specification
- 25. Plug in the connectors for the injectors.
- 26. Install the cable holder, control unit, dust cover, and the air cleaner with clamps.
- 27. Plug in the connector and install the hoses between the air cleaner and the turbo.
- 28. Bleed the fuel system, see: 233 Fuel system, bleeding



Make sure that high-pressure fuel cannot come into contact with unprotected parts of the body when working with injection equipment.

29. Restore the machine.



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