VOLVO
Construction Equipment

Service Information

Document Title: **Component locations**	Function Group: **200**	Information Type: **Service Information**	Date: **2014/3/21**
Profile: **WLO, L60G [GB]**			

Component locations

Engine, component positions

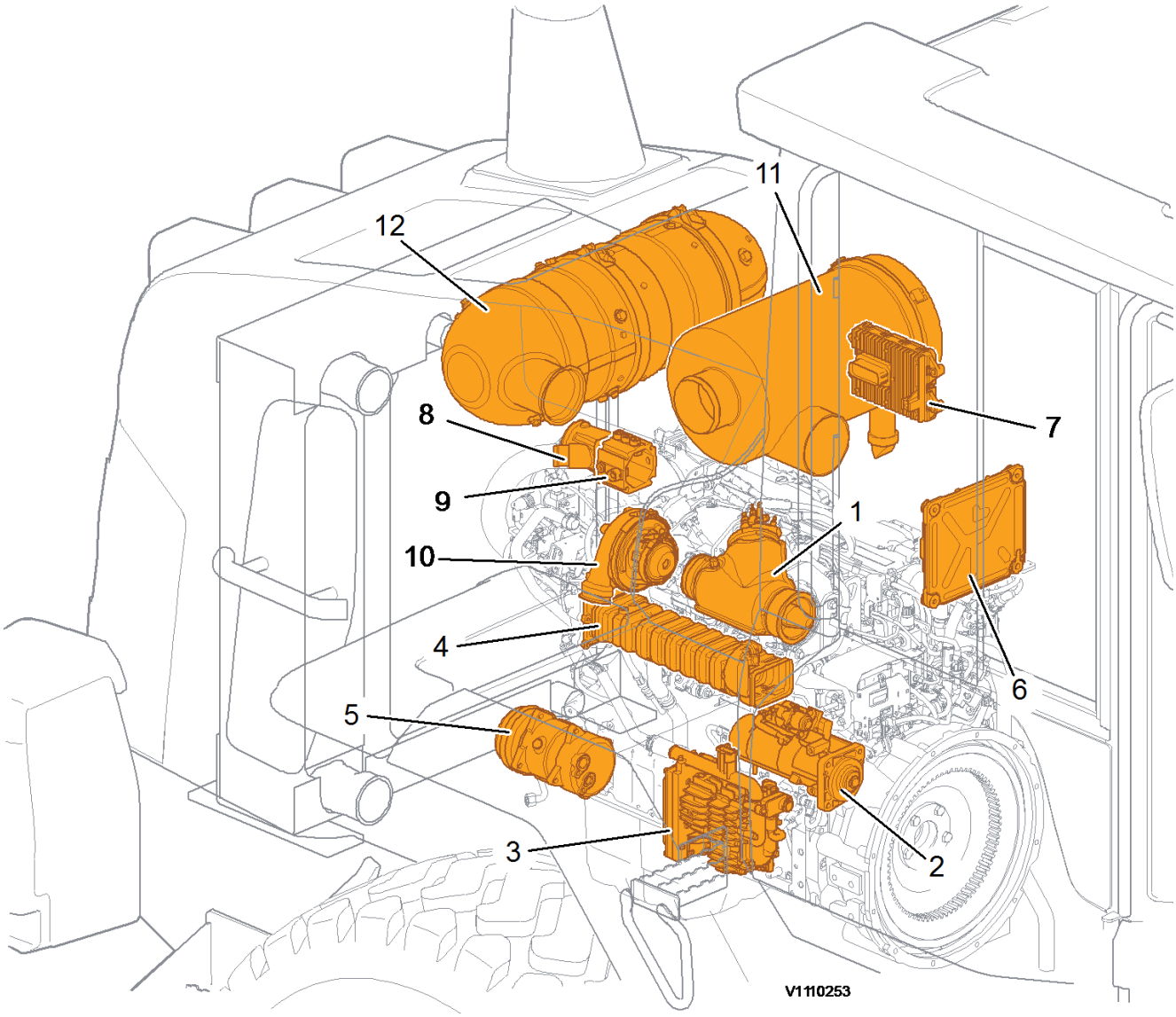

Figure 1

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

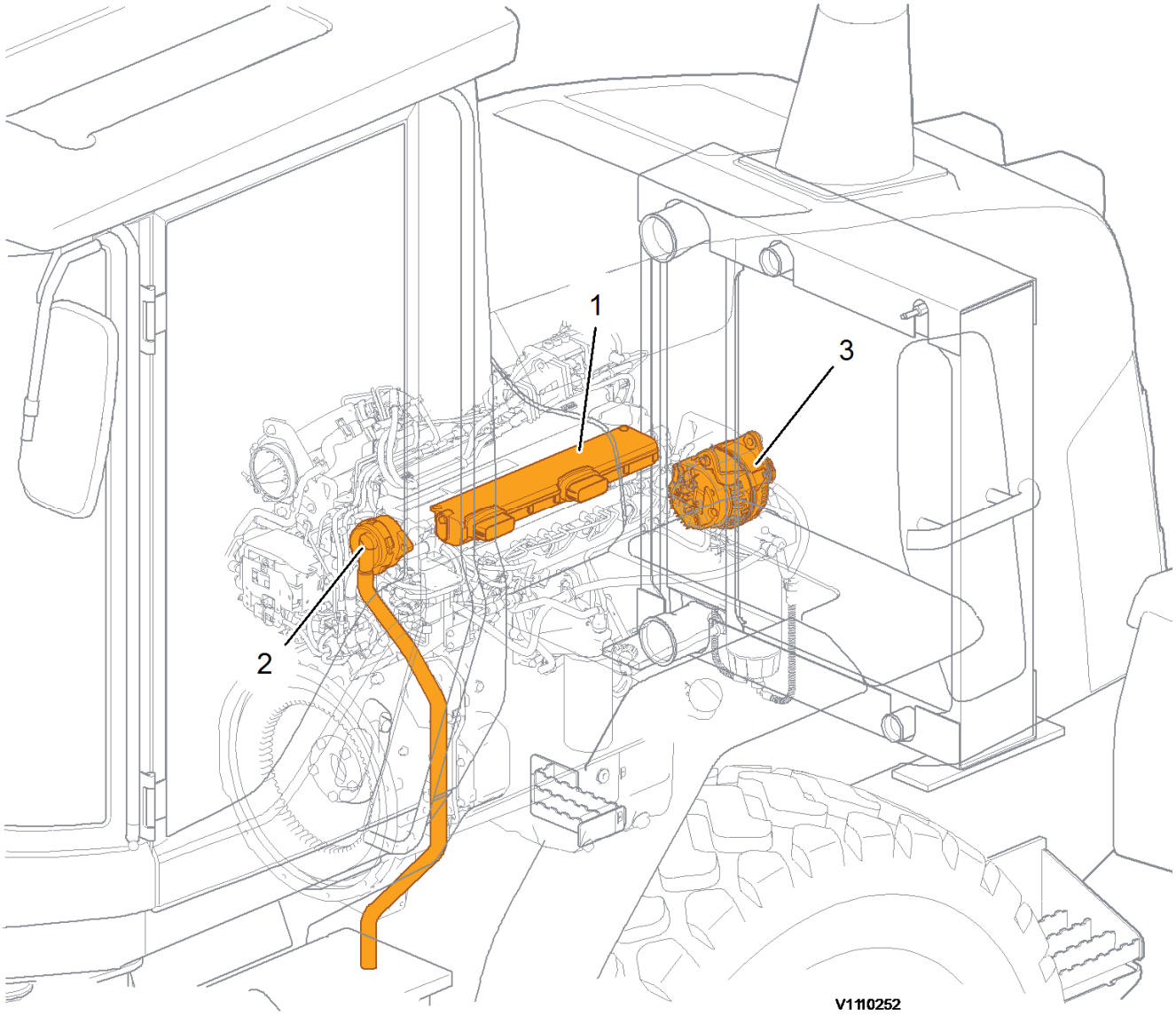

Figure 2

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

Thank you very much for reading.

PLEASE CLICK HERE

Then back to the site.

At the bottom of the page,

free add to card.

Then get more free

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	Application
25801-3 MID 233 Control unit, programming	When changing ACM or only reprogramming. See 254 ACM, replacing, non-programmed
28423-3 MID 128 ECU, programming	When changing ECU or only reprogramming. See 200 E-ECU, MID 128, changing non-programmed ECU

Document Title: **Engine belts, replacing**	Function Group: **200**	Information Type: **Service Information**	Date: **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).

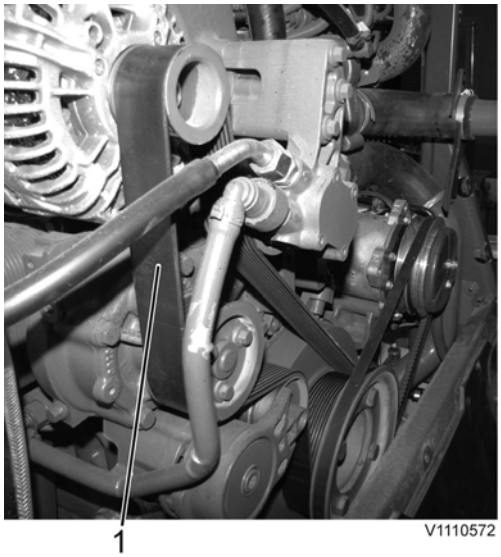

Figure 2

1. Alternator belt

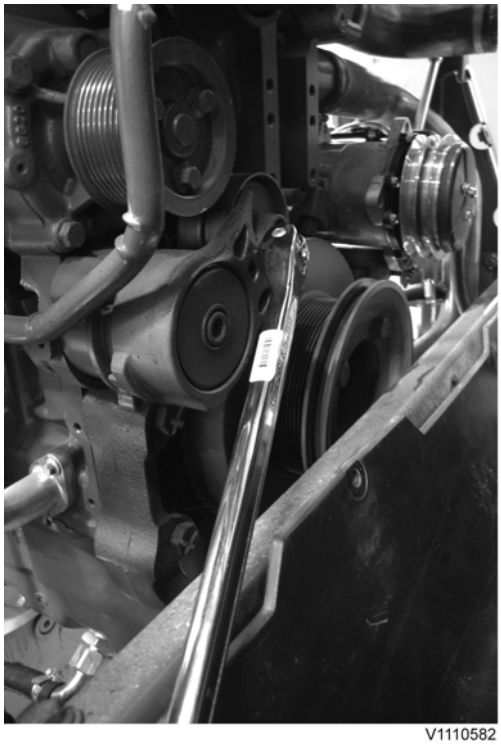

Figure 3

Loosen the tensioning pulley and remove the belts.

5. Remove the alternator belt.

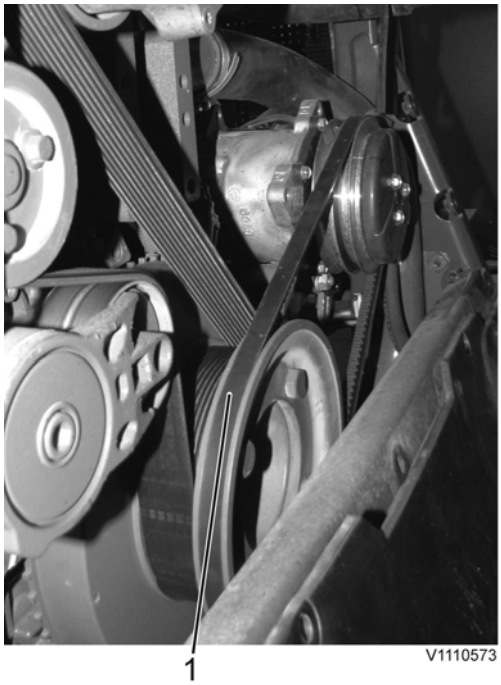

Figure 4

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.
3. **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).

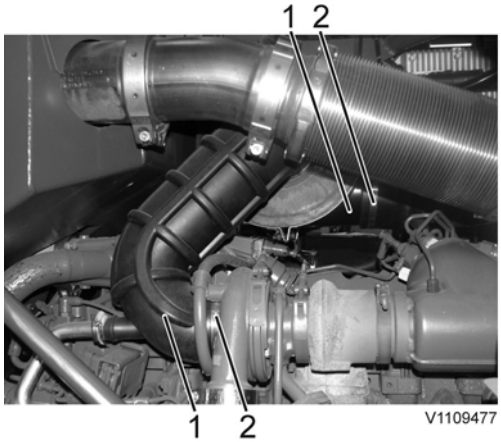

Figure 1

1. Hoses
2. Clamps

5. Remove the bracket for the air cleaner (2 clamps).
   Remove the air cleaner.

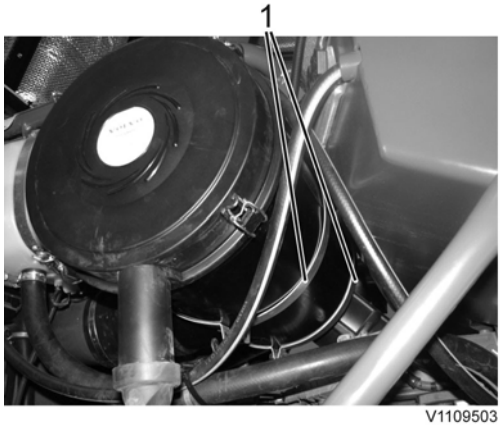

Figure 2

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).

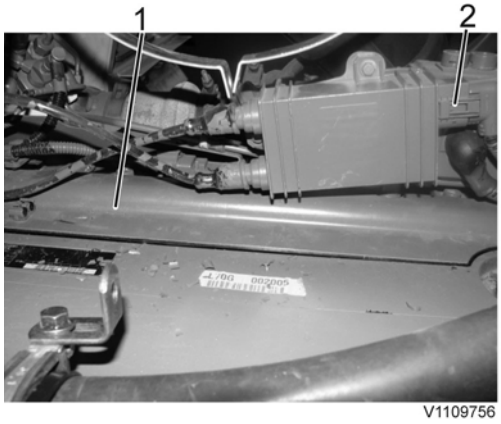

Figure 3

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.

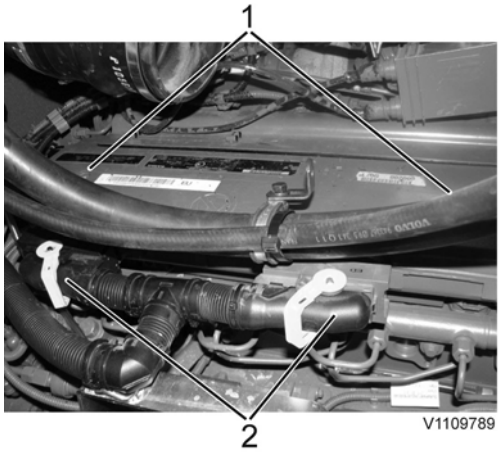

Figure 4

1. Bolt
2. Connectors

8. Unplug the connectors (2 pcs.) for the injectors.

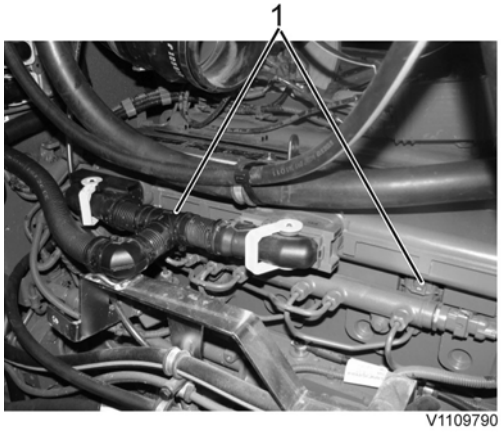

Figure 5

1. Connector

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

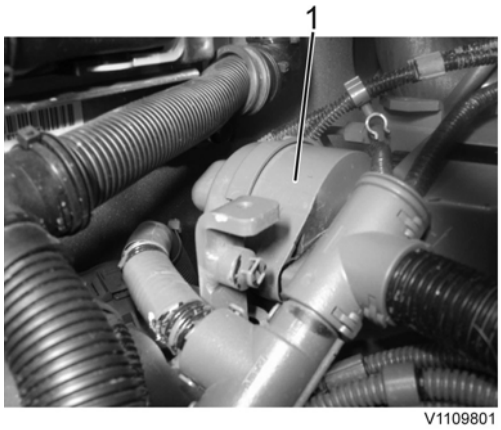

Figure 6

1. Crankcase ventilation

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

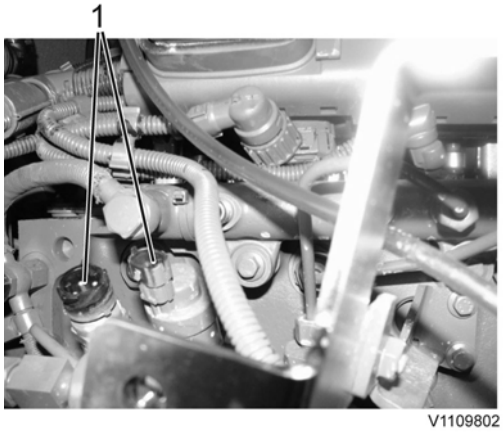

Figure 7

1. Connectors

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

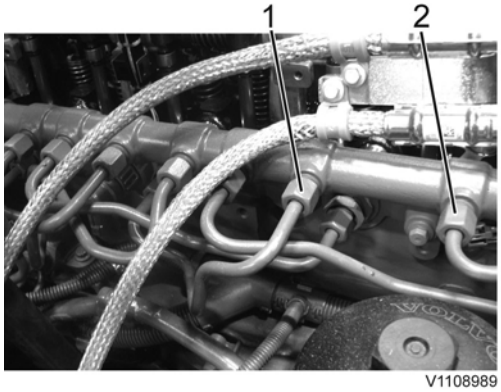

Figure 8

1. Rail pipe
2. Injector pipe

12. Remove the feed line. Attach a 10 mm (0.4 in.) hose to the feed line for circulating the fuel to the tank.

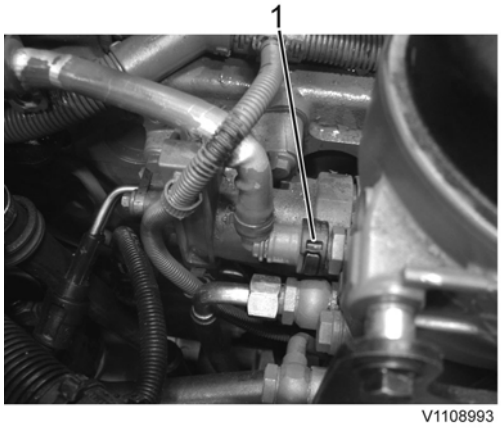

Figure 9

1. Feed line

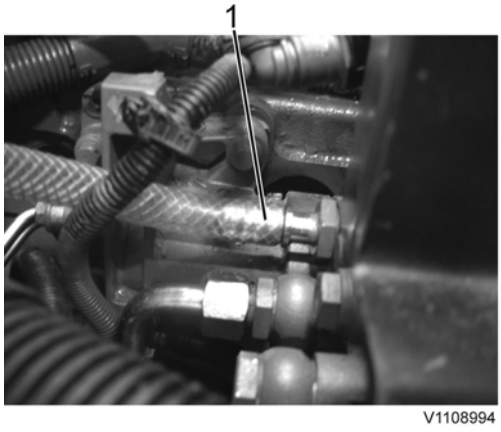

Figure 10

1. Hose for fuel circulating

13. Remove the nut (6 pcs.) and the nozzle (6 pcs.) for the injector (6 pcs).

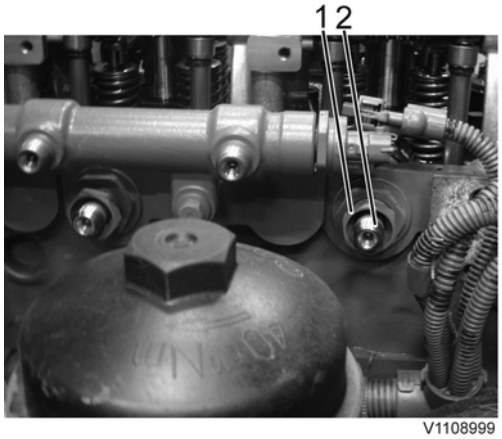

Figure 11

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).

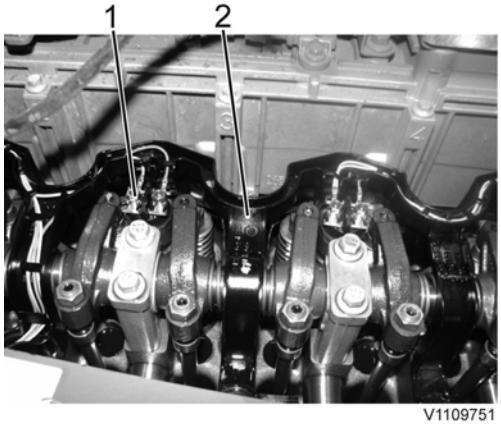

Figure 12

1. Electric connections
2. Cable harness

15. Replace the injector, use: 88830206 Counterhold.

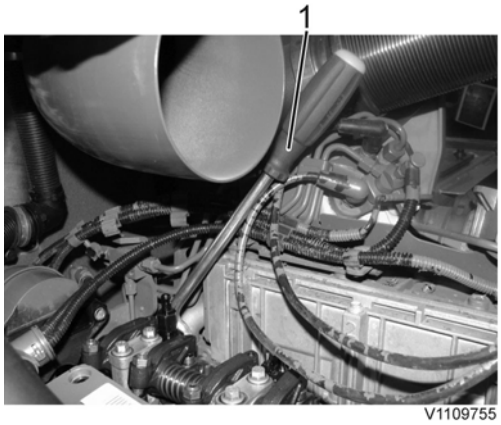

Figure 13

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%.

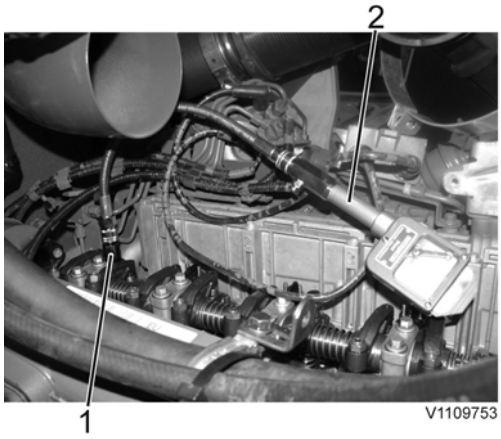

Figure 14

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

    WARNING

    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.

Document Title: **Engine rotation speed sensor (crank shaft), replacing**	Function Group: **210**	Information Type: **Service Information**	Date: **2014/3/21**
Profile: **WLO, L60G [GB]**			

Engine rotation speed sensor (crank shaft), replacing

Op nbr 210-093

1. Place the machine in service position according to 191 Service position.
2. Open the engine hood.
3. Unplug the connector and loosen the screw that holds the speed sensor.

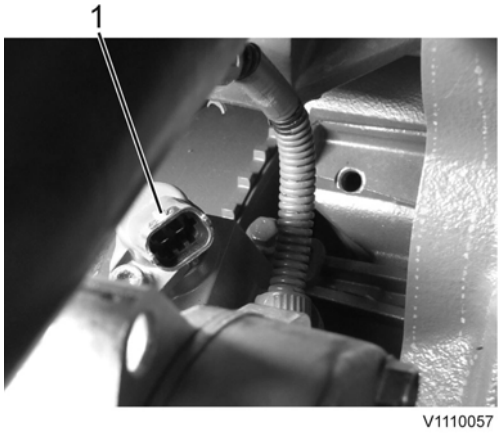

Figure 1

1. Connector

4. Remove the speed sensor.

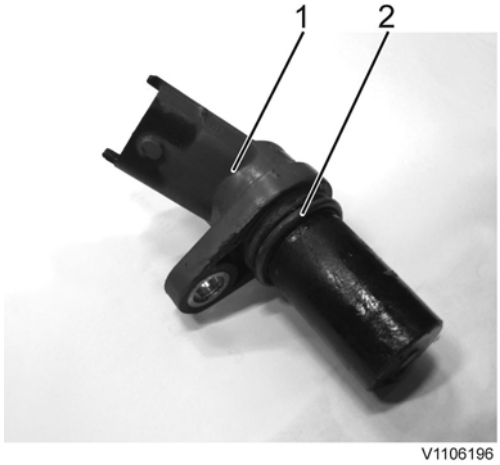

Figure 2

1. Loose speed sensor
2. O-ring

5. Replace the O-ring.

6. Install a new speed sensor and plug in the connector.

7. Restore the machine.

Document Title:	Function Group:	Information Type:	Date:
Engine rotation speed sensor (camshaft), replacing	**210**	**Service Information**	**2014/3/21**
Profile: **WLO, L60G [GB]**			

Engine rotation speed sensor (camshaft), replacing

Op nbr 210-092

1. Place the machine in service position according to 191 Service position.
2. Open the engine hood.
3. Remove the oil pipe (2 screws).

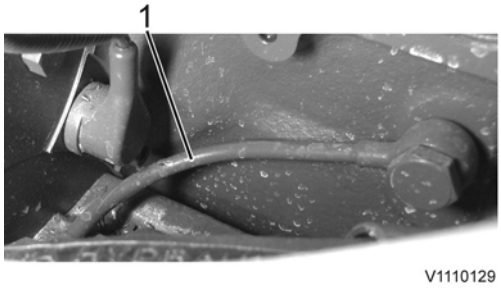

Figure 1

1. Oil pipe

4. Cut the cable tie, unplug the connector and loosen the screw that holds the speed sensor.

Figure 2

1. Connector

5. Remove the speed sensor.

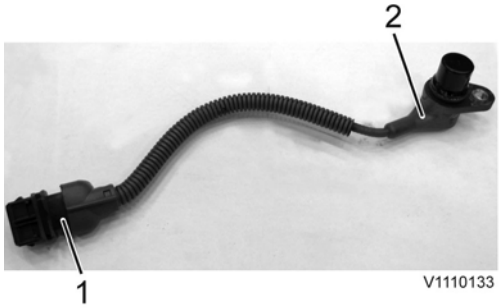

Figure 3

1. Connector
2. Speed sensor

6. Replace the O-ring.

7. Install a new speed sensor and plug in the connector.

8. Install the oil pipe. Tightening torques:
   M12 (banjo screw): **20 ±3 Nm (14.8 ±2.2 lbf ft)**
   M16 (banjo screw): **40 ±5 Nm (29.5 ±3.7 lbf ft)**

9. Restore the machine.

Document Title: **Crankcase ventilation, description**	Function Group: **212**	Information Type: **Service Information**	Date: **2014/3/21**
Profile: **WLO, L60G [GB]**			

Crankcase ventilation, description

Since some of the combustion pressure enters the crankcase after passing by the pistons and piston rings (blow-by), the crankcase must be ventilated.

The purpose of the crankcase ventilation is to balance the pressure in the crankcase in order to avoid damage to engine components and to prevent oil mist formation and oil leakage into the ambient air.

The crankcase ventilation consists of a housing containing a filter, with connections to the oil sump and ventilation piping.

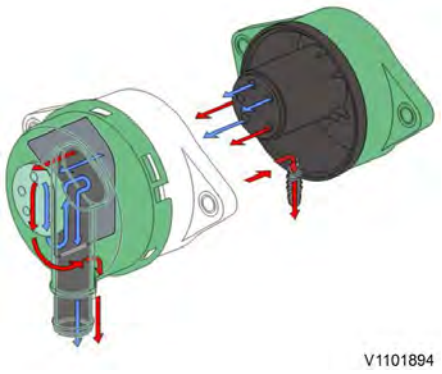

Figure 1
Crankcase ventilation housing

Air containing oil particles comes from the crankcase via the cylinder head into the crankcase ventilator. The air (blue arrows) passes through the filter, while oil particles (red arrows) are caught and led back to the oil sump via a return pipe.

Supplementary information

- 200 Engine, description
- 200 Component locations

Document Title: **Valves, adjusting**	Function Group: **214**	Information Type: **Service Information**	Date: **2014/3/21**
Profile: **WLO, L60G [GB]**			

Valves, adjusting

Op nbr 214-012

88830207 Rotation tool
885812 Timing tool

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

NOTICE

Never adjust the valves with the engine running as the valves may strike the piston and cause serious damage.

1. Place the machine in service position, see 191 Service position.
2. Lift the hood.
3. Remove the lower part of the intermediate wall. Place the rotation tool over the attaching bolts for the belt pulley.

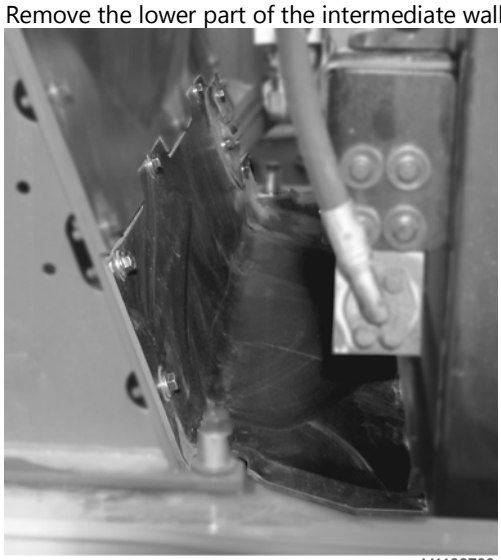

Figure 1
Intermediate wall

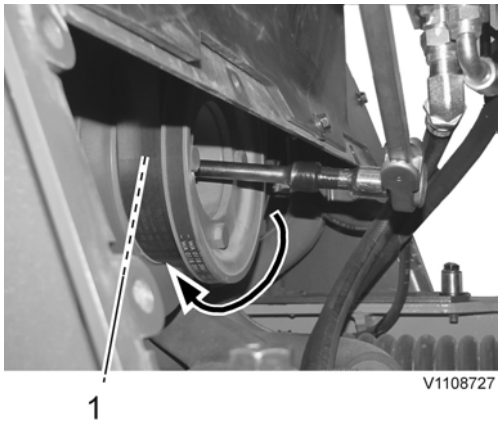

Figure 2

4. Unplug the main connectors, remove the two screws and move aside the cable conduit. Unplug the injector connectors.
   Remove the steel straps and move aside the two coolant hoses. Remove the screws and move aside the spark plug control unit.

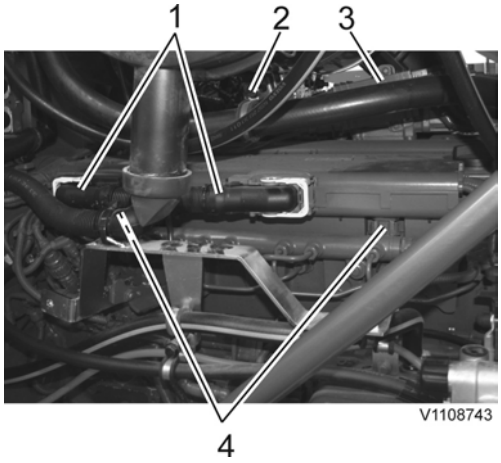

Figure 3

1. Main connectors
2. Clamp for coolant hoses
3. Spark plug control unit
4. Injector connectors

5. In order to access the attaching bolts for the valve cover, unplug the connector for SE2524 and remove the crankcase ventilation housing. Move the cables aside.

Figure 4

1. Bolts for oil trap
2. SE2524

6. Remove the plastic cover panel. It is only fastened with clips. Loosen the two sensor cables to access to the valve cover's bolts.

NOTICE

Carefully clean around the valve cover to prevent dirt and debris from getting into the engine while work is in progress.

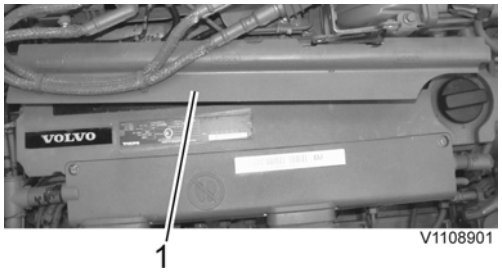

Figure 5

1. Plastic cover panel

Remove the valve cover's bolts. Part the clamp for the air filter. Remove the valve cover.

NOTE!

The valve cover gasket is vulcanized together with the cable channel. Be careful when removing the valve cover. Make sure that the valve cover's gasket remains on the engine.

7. Crank the engine to a position where the valves on the cylinder number 1 **(closest to the flywheel side**) overlap. Overlapping means that the exhaust valve is about to open and the inlet valve is about to close. In this position it should not be possible to rotate any of the push rods by hand for the cylinder in question.

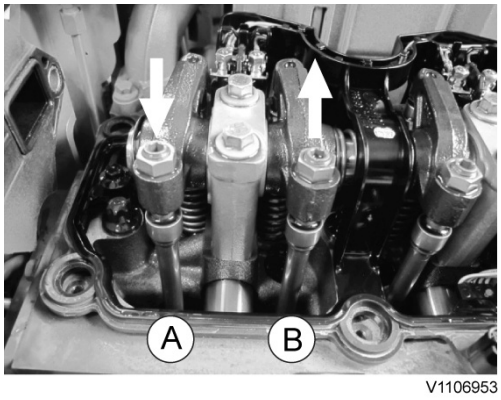

Figure 6

A. — Exhaust valve
B. — Inlet valve

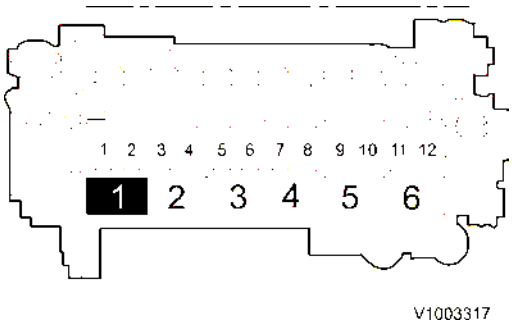

Figure 7

1, 3, 5, 7, 9, 11 are exhaust valves
2, 4, 6, 8, 10, 12 are inlet valves

8. Mark the position on the belt pulley and oil pump's cover.

9. Adjust the valve clearance for each cylinder according to **the black markings** in the figure. Procedure for adjusting:

    1. Loosen the adjusting screw's lock screw on the rocker arm.
    2. Install the timing tool on the adjusting screw.
    3. Turn the adjusting screw until zero clearance is obtained between rocker arm and valve. Set the timing tool to zero.
    4. Turn the adjusting screw **counter-clockwise 75° ±10% for inlet valve** and **120° ± 10% for exhaust valve**
    5. Hold the adjusting screw in position and at the same time tighten the lock nut. Tightening torque: See 210 Engine, tighten torques

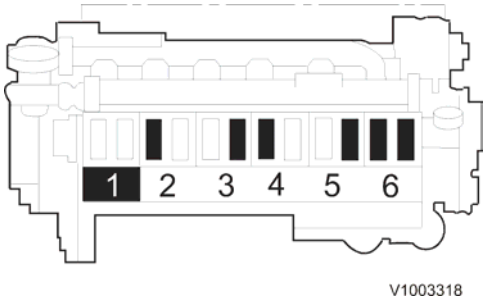

Figure 8

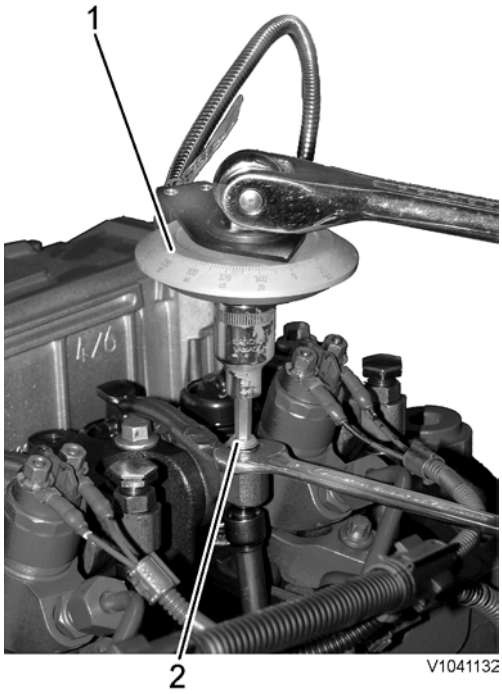

Figure 9
Use of timing tool, principle

1. 885812 Timing tool
2. Adjusting screw

10. Turn the crankshaft one more revolution until the valves for cylinder number 6 overlap. Adjust the valve clearance for each cylinder according to **the black markings** in the figure.

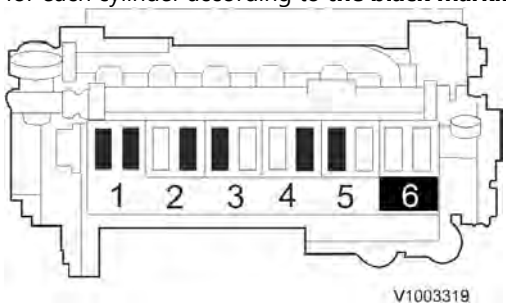

Figure 10

11. Clean all sealing surfaces.

12. Install the valve cover. Tightening torques, see 210 Engine, tighten torques

13. Install the crankcase ventilation housing and connect SE2524. Plug in the main connectors and the injector connectors and install the cable conduit.

14. Install the spark plug control unit and the sensor cables which were moved aside. Install the clamp for the air filter and fasten the coolant hoses. Install the plastic cover panel.

15. Remove the rotation tool and install the intermediate wall.

the satisfactory manner to run an excavator machine, shoot grade, and simply a way to nicely dig holes and ditchs in order that they might not give way.

volvo

volvo dealer near me

front end loader

excavator contracts

pay loader

conexpo

volvo finance

volvo log

volvo financial services

volvo fina

care track

caretrack

wheel loader

wheeled loaders

wheel loaders

mining in chile

soil compactor

soil compactors

excavator volvo

volvo excavators

volvo excavator

volvo services

construction equipment volvo

volvo construction equipment

volvoce

excavators volvo

volvo 750 excavator

rock truck

rock trucks

conexpo las vegas 2020

480 volvo

volvo dumper truck

excavator wheeled

wheeled excavator

wheeled excavators

skid steer volvo

volvo skid steer

volvo skid steers

volvo skidsteer

construction excavators

articulate trucks

articulated truck

articulated trucks

volvo ec750e cost

volvo equipment

ascendum machinery

volvo loader

volvo loaders

dumper truck volvo

front end loader small

heavy equipment volvo

volvo heavy equipment

heavy equipment dealer near me

heavy equipment dealers near me

mini volvo excavator

volvo mini excavators

wheel loaders volvo

volvo wheel loader

wheel loader volvo

volvo wheel loaders

volvo wheeled loaders

volvo equipment dealership

volvo equipment dealer

volvo equipment dealers

volvo 750

swecon

asphalt compactors

asphalt compactor

volvo mini excavator

mini excavator volvo

volvo a40g

750 excavator

volvo a 40g

volvo ec 750e

volvo ec750e

volvo vdn

compactors asphalt

samsung excavators

samsung excavator

scat trak

volvo ecr 88

volvo ecr88

ecr88 volvo

volvo equipment dealer near me

volvo equipment dealers near me

volvo equipment dealership near me

volvo construction

volvo constructions

volvo ce

front end loader volvo

volvo backhoes

a60h volvo

volvo a60h

volvo excavator 480

excavator volvo 480

480 volvo excavator

volvo 700 excavator

volvo excavator 700

volvo haul truck

volvo shippensburg pa

volvo shippensburg pennsylvania

volvo front end loader

vantage equipment

volvo ec750e price

mini front end loader

volvo 750 excavator price

pipelayer

55c

45c

scat track

volvo l90

rock truck volvo

volvo rock truck

volvo dealer network

volvo articulated dump truck

articulated dump truck volvo

terex trucks

volvo 140 excavator

backhoe volvo

blaw knox

volvo 480 excavator

volvo backhoe

ingersoll rand roller

volvo 750 excavator specs

volvo articulated dump trucks

volvo excavator 140

volvooceanrace

articulating trucks

road pavers

electric excavator

wheel excavators

dump truck volvo

electric excavators

guins

letsdig18

volvo construction equipment parts

champion motor graders

shippensburg volvo

volvo off road truck

volvo oils

volvo construction equipment dealer

volvo off road trucks

savage stone

volvo construction equipment dealers

volvo dozers

volvo l70 h

blaw knox pavers

volvo l70h

volvo 220

volvo 750 excavator specifications

volvo dozer

volvo machine

blaw knox paver

volvo a40

volvo machinery

big loaders

construction equipment supplier

scat trak skid steer

volvo ec140el

volvo l90 h

volvo a25g

a40f volvo

volvo a30g

volvo a40d

wheeled mini excavator

volvo a45g

volvo heavy equipment dealers

a30g volvo

champion graders

articulated truck volvo

wheeled mini excavators

champion grader

volvo construction equipment dealer near me

volvo 160

a25g volvo

volvo ecr88 specs

volvo heavy equipment dealer

is chris guins married

michigan loader

volvo l90h

volvo l 90h

ec 750 volvo

volvo heavy equipment dealership

volvo 750 excavator weight

volvo articulating truck

articulating truck

construction excavator

volvo dealer locator

volvo coolant

ex factor

excavadoras

construction equipment suppliers

turner mining group

volvo l 70

quarry aggregates

excavator bucket types

volvo l70

volvo roller

volvo 250

volvo 350

volvo equipment parts near me

l90 volvo specs

motor grader volvo

motor graders volvo

nearest volvo dealer

ecr 88d volvo

volvo excavator 220

volvo rollers

volvo ecr38

volvo rental equipment

a30d volvo

volvo l90 specs

gold rush excavator

volvo ec750e specs

volvo 290

volvo motor grader

volvo articulated truck

dd 24

vantage wear

roller volvo

volvo 160 excavator

volvo a40g specs

volvo equipment rental

volvo track hoe

volvo a60

volvo pavers

volvo 540

volvo motor graders

volvo 220 excavator

volvo equipment rentals

volvo graders

volvo paver

ecr88d volvo

volvo construction equipment usa

volvo l60 h

volvo shippensburg

volvo grader

conexpo las vegas

volvo articulated trucks

graders

mini front end loaders

pacwest machinery

hwy equipment

pipelayers

front end loaders

equipment dealer near me

volvo dump truck

equipment dealerships

romco equipment

equipment dealers near me

doosan mega 300v

doosan mega 300v specs

doosan mega 300-v

doosan mega 300v pdf

Thank you very much for reading.

PLEASE CLICK HERE

Then back to the site.

At the bottom of the page,

free add to card.

Then get more free