

Document Title: Description, complete machine	Function Group: 000	Information Type: Service Information	Date: 4/12/2025
Profile: A60H Volvo			

Complete machine, descriptions

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A60H Volvo			

The machine consists of two main sections, the tractor unit and the load unit. The two units are joined by the frame joint, which allows movement about a vertical bearing for steering. The frame joint also allows twisting of the units in relation to each other along a horizontal axis.

Engine

The machine is equipped with a straight six cylinder, four-stroke, turbocharged diesel engine with direct injection and intercooler (charge-air cooler). The engine has an overhead camshaft and each cylinder has one unit injector. The cylinder head is common for all cylinders and has four valves per cylinder.

D16J

The engines comply with US Tier 4 final and California Tier 4 final emission requirements and EU Stage IV emission requirements.

Engines intended for EU and built after 1 January 2019 comply with the EU Stage V emission requirements.

These require low sulphur content in the fuel.

The engines feature external, cooled exhaust recirculation (EGR - Exhaust Gas Recirculation) and an exhaust aftertreatment system (EATS - Exhaust AfterTreatment System).

EATS consists of a diesel particulate filter (DPF), catalysts, and injection of AdBlue®/DEF. The system has a built-in cleaning function, regeneration, which uses increased temperature to clean the EATS.

EATS is monitored and controlled by the aftertreatment control module (ACM).

D16F

The engines meet emission requirements for Stage II. The engines can handle fuels with higher sulphur content than the D16-engines.

Electrical system

Machines with engine alternative D16J have nine control units (ECU).

Machines with engine alternative D16F have seven control units (ECU).

- **V-ECU**
Located on the left side in the cab in front of the circuit board. The V-ECU is the upper of the two ECUs. Handles brakes, gearshifting, steering, and cooling fan control on the machine.
- **V2-ECU**
Located on the left side in the cab in front of the circuit board. The V2-ECU is the lower of the two ECUs. Handles dumping system, brake cooling system, ATC, differential locks, and hydraulic suspension.
- **W-ECU**
Located on the left side in the cab over the circuit board. Handles CareTrack. (Telematic system for remote monitoring of information from the machine).
- **HMIM**
Located on the left side in the cab over the circuit board. Handles information for the operator via instrumentation, information display unit, warning lights, and instruments.
- **ECC**
Located in the cab on the right side under the gear selector. Handles the climate control system.
- **T-ECU**

Applies to machines with engine alternative D16J:

- **ECM (E-ECU)**
Located on the left side of the engine.
Handles the engine.
- **ACM**
Located under the engine hood on the leading edge of the right front fender.
Handles the exhaust aftertreatment system.
- **Engine Gateway**
Located on the front cab wall under the left instrument panel.
Handles communication between the engine system and the machine system.

Applies to machines with engine alternative D16F:

- **E-ECU**
Located on the left side of the engine.
Handles the engine.

Power transmission

The **transmission** is fully automatic and of the planetary type. It has a torque converter with free-wheel stator and automatic direct clutch, Lock-up, on all gears. The transmission has six forward gears and two reverse gears. In combination with the dropbox, all forward gears can be used in high or low range.

The **dropbox** has a differential type which distributes torque equally between the front axle and rear axles, reducing tire and road wear, as well as fuel consumption. The longitudinal differential features a lock function of dog-clutch type.

ATC, Automatic Traction Control, automatically controls engagement and disengagement of the longitudinal differential lock and 6-wheel drive as needed.

The **drive axles** are equipped with a differential and planetary gear hub reductions. All drive axles have differential locks of dog-clutch type.

Brake system

Engine brake

Depending on setting of switches, an engine brake is available to reduce wear of the brakes.

Service brake

The service brake is operated hydraulically. All wheel axles are equipped with sealed, wet multi-disc brakes and external oil cooler.

The brake system and hydraulic system have a common oil tank. The brake cooling system has a separate oil tank.

Parking brake

The hydraulic parking brake acts on the propeller shaft to the front bogie axle, and on the front axle as well through the dropbox.

The longitudinal differential lock in the dropbox is engaged at the same time as the parking brake is applied, which means that the propeller shaft locks the front axle and the front bogie axle.

Steering system

The steering system is self-compensating, hydromechanical with secondary steering function. A ground-dependent pump on the dropbox means that the steering works even if the engine stops as long as the machine is rolling forward.

Hydraulic Suspension (HS-system)

The machine features **Hydraulic Suspension**, which is a hydraulic suspension system. The tractor unit's frame and wheel axles are connected to 2 double-acting hydraulic cylinders. The tractor unit's wheels have position sensors, which means that the suspension adapts to the ground conditions and load, increasing both productivity and operator comfort.

Cab

The cab features an automatically controlled heating and ventilation system with defroster system for the windows. Air conditioning is standard. The cab has three emergency exits, the door and the front side windows on both right and left side. These are broken with the hammer in the cab if evacuation is necessary that way.

FOPS and ROPS

The cab is approved as a protective cab according to FOPS and ROPS standards. FOPS is an abbreviation of Falling Objects Protective Structure (roof protection) and ROPS is an abbreviation of Roll Over Protective Structure (roll over protection).
<https://www.arepairmanual.com/downloads/volvo-a60h-articulated-haulers-service-manual/>

If any part of the cab's protective design features is affected by plastic deformation or cracks, the cab must be replaced immediately.

Never make any unauthorized changes to the cab, e.g., lowering the roof height, drilling, welding on of brackets for fire extinguishers, radio antenna, or other equipment without first discussing the modifications, via a dealer, with personnel at Volvo CE's design and engineering department. They will decide if the modification can lead to the approval becoming invalid.

Hydraulics

The hydraulic system consists of six hydraulic pumps of the piston pump type with continuously variable displacement.

Two of these pumps are used for the steering and dumping system, two for fan drive, one for the hydraulic suspension, and one is a ground-dependent hydraulic pump mounted on the dropbox. The two pumps for fan drive are one for the intercooler's (CAC) cooling fan and one for the radiator's cooling fan. The radiator's fan pump is also used for brake pressure charging and driving the brake cooling pump/secondary coolant pump.

The pump that supplies the hydraulic suspension with flow is also used for dumping. The ground-dependent hydraulic pump delivers oil via a non-return valve to the steering system when the machine rolls forward.

Dumping system

The machine features an electric dump lever which sends an electric signal to two electro-hydraulic valves. These send a hydraulic signal to the dumping valve which controls the load body's movement. The machine has damping at the upper and lower load body positions.

Document Title: Product identification plates	Function Group: 000	Information Type: Service Information	Date: 4/12/2025
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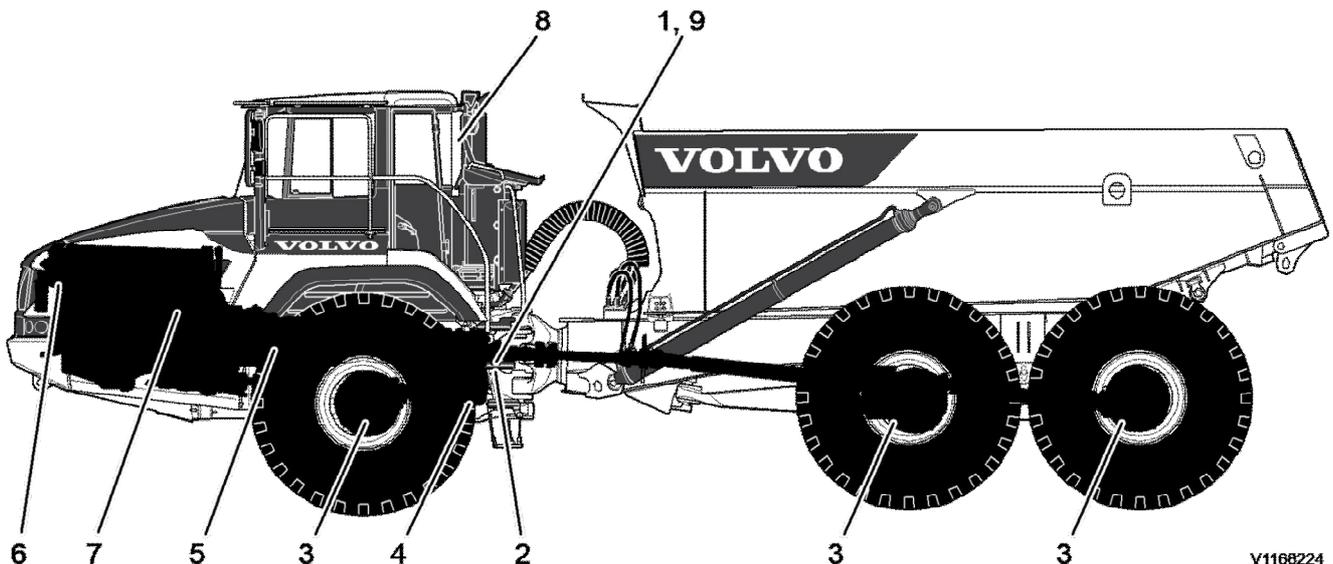
Product plates

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A60H Volvo			

The illustration and text below show the product plates that should be found on the machine.

When ordering spare parts and when making enquiries by telephone or correspondence, the model designation and Product Identification Number (PIN) should be stated.



V1168224

Figure 1

1. The data plate is located on the left side of the tractor unit's frame by the steering joint. The data plate varies depending on the market. The information is indicated as follows:

Volvo Construction Equipment		
Volvo Construction Equipment AB		
Carl Linné väg, SE-383 41 Brista, Sweden		
Type/Model	<input type="text"/>	
Product Name	<input type="text"/>	
Product Identification Number	<input type="text"/>	
Machine mass kg	<input type="text"/>	
Engine net power kW	<input type="text"/>	
Manufacturing year	<input type="text"/>	
Made in	<input type="text"/>	Assembled in <input type="text"/>
VOLVO		

V1228478

Figure 2

Data plate for countries within the EU/EEC

- manufacturer's name and address
- type/model for complete machine
- product name
- **Product Identification Number (PIN)**
- machine weight (machine's most common configuration)
- motor power
- year of manufacture
- month of manufacture (only countries within Eurasian Customs Union)
- country of manufacture
- assembled in

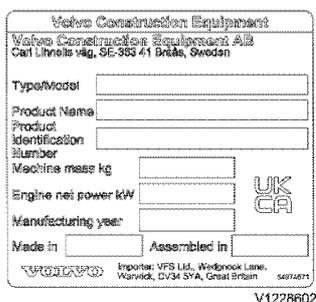


Figure 3
UKCA identification plate

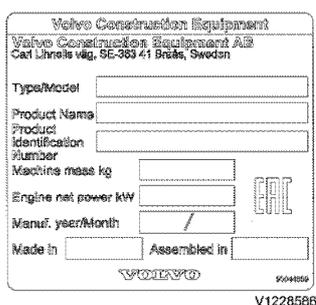


Figure 4
Data plate for countries within Eurasian Customs Union

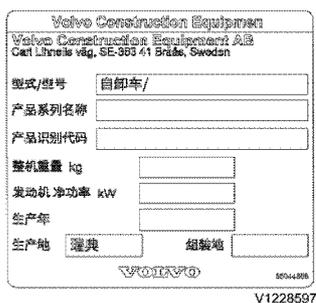


Figure 5
Data plate for China



Figure 6
Additional eco label for China

Valve Construction Equipment	
Valve Construction Equipment AB Carl Linnés väg, SE-363 41 Brås, Sweden	
Type/Model	<input type="text"/>
Product Name	<input type="text"/>
Product Identification Number	<input type="text"/>
Machine mass kg	<input type="text"/>
Engine net power kW	<input type="text"/>
Manufacturing year	<input type="text"/>
Made in <input type="text"/>	Assembled in <input type="text"/>
	
53044543	
V1228596	

Figure 7

Data plate for rest of the world

2. The machine's serial number is stamped into the frame on the left side of the tractor unit, by the steering joint.
3. The drive axles' serial numbers are located on the axle housing.
4. The dropbox's serial number is located at the front, on its right side.
5. The transmission's type designation and serial number are located on its left side.
6. The decal "Important Engine Information" is located on the front of the engine and on the left side of the tractor unit's frame by the steering joint.
7. The engine's type designation, part number, and serial number are stamped into the engine on both sides.
8. Cab type, type approval, and serial number are located on the left side in the cab, on the pillar to the left of the door (seen from inside the cab), closest to the rear window.
9. Engine and exhaust decal with the engine's type designation and component number.

Document Title: Information and warning decals	Function Group: 000	Information Type: Service Information	Date: 4/12/2025
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Information and safety decals

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A60H Volvo			

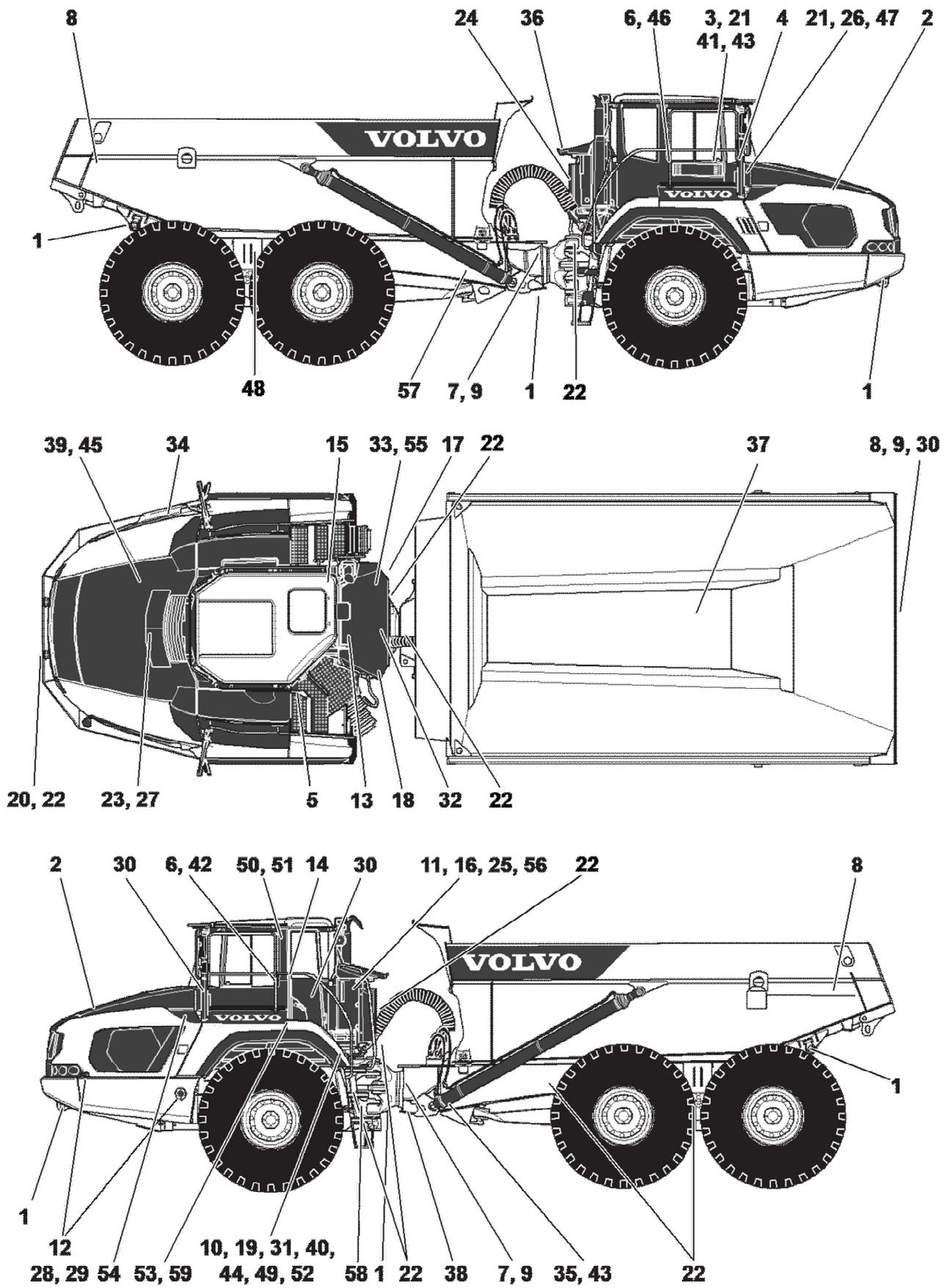
The machine operator should know and pay attention to the warnings and information on decals and plates. Decals may differ depending on the machine and the market.

The decals must be kept clean so that they can be read. Replace damaged, overpainted or missing decals and plates immediately.

The spare part number (order number) is shown on the decals/plates and in the part catalogue.

NOTE!

The text "WARNING" is shown on warning decals in North America.



V1232771

Figure 1

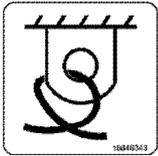


Figure 2

1. Attaching point for lashing
Spare part number: 16846343



Figure 3

2. Avoid aiming water jets at sound absorbers
Spare part number North America: 16929638
Spare part number China: 16315803
Spare part number, all other markets: 16929639

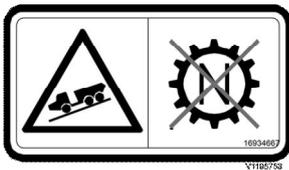


Figure 4

3. WARNING! Do not operate downhill with the gear selector in neutral. Only change gear with the accelerator released.
Spare part number North America: 16929626
Spare part number China: 16934522
Spare part number, all other markets: 16934667

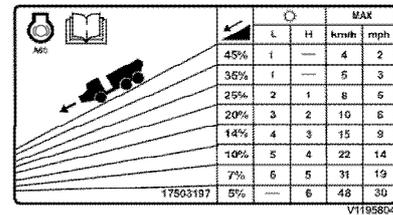


Figure 5

4. Retarder diagram
Spare part number: 17503197



Figure 6

5. Oil fill point transmission
Spare part number: 11197518



Figure 7

6. Emergency exit
Spare part number: 11116814



Figure 8

7. WARNING! Risk of crushing – articulated frame steering
Spare part number North America: 16929620
Spare part number, all other markets: 16901162

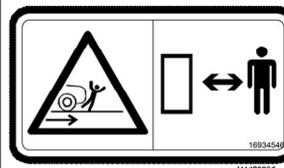


Figure 9

8. WARNING! Do not stand within the work area of a reversing machine
Spare part number North America: 16929627
Spare part number, all other markets: 16934546



Figure 10

9. WARNING! Do not lean in under raised dump body unless it is blocked
 Spare part number North America: 16929625
 Spare part number, all other markets: 16934539

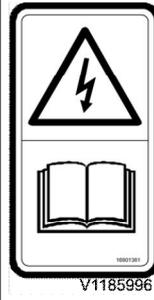


Figure 11

10. WARNING! Before connecting start cables, read the Operator's Manual.
 Spare part number North America: 16929621
 Spare part number, all other markets: 16901361

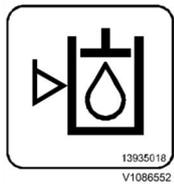


Figure 12

11. Hydraulic oil
 Spare part number: 13935018

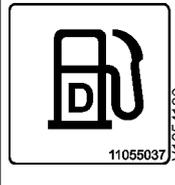


Figure 13

12. Fuel
 Spare part number: 11055037



Figure 14

13. Sound pressure level (LpA) in cab
 Spare part number 70 dB: 11180148
 Spare part number 72 dB: 11180150



Figure 15

14. Sound power level (LwA) outside machine
 Spare part number 111 dB: 11180166
 Spare part number 113 dB: 11180168

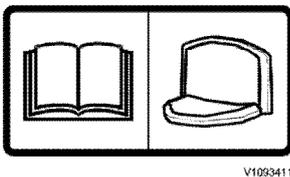


Figure 16

15. Compartment for Operator's Manual
 Spare part number: 15164402

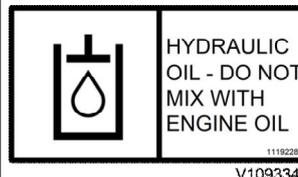


Figure 17

NOTE! Only North American market.
 16. Hydraulic oil. Do not mix with engine oil
 Spare part number: 11192288

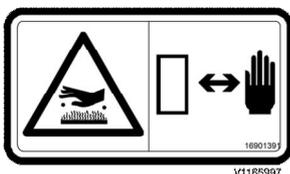


Figure 18

17. WARNING! Hot surfaces
Spare part number North America: 16929623
Spare part number, all other markets: 16901391

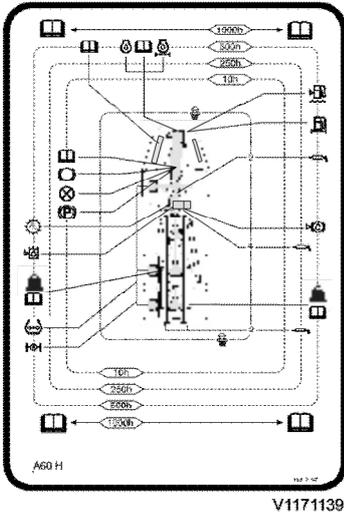


Figure 20

19. Service decal
Spare part number: 54869683[1]
Spare part number: 16917197[2]

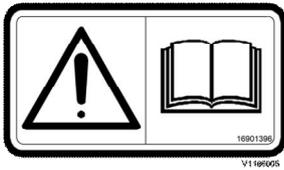


Figure 21

21. Read the Operator's Manual
Spare part number North America: 16929624
Spare part number, all other markets: 16901396

Figure 19

18. Oil fill point dropbox
Spare part number: 15170937

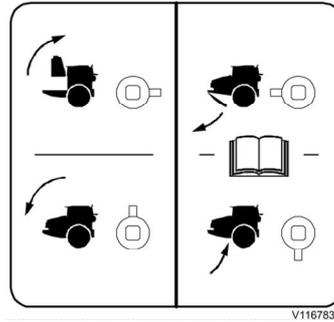


Figure 22

20. Engine hood (engine hood and front skid plate)
Spare part number: 16872875

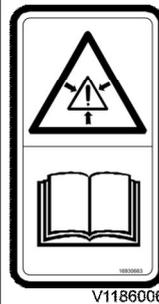


Figure 23

22. System/component with pressure
Spare part number North America: 16929633
Spare part number, all other markets: 16930663



Figure 24

23. WARNING! Hot coolant
Spare part number North America: 16948457
Spare part number, all other markets: 16943076

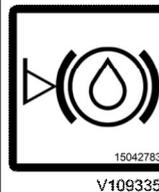


Figure 25

24. Brake cooling oil
Spare part number: 11116416



Figure 26

25. Synthetic ester
Spare part number: 11411924

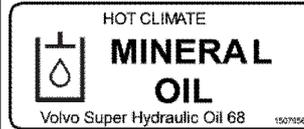


Figure 27

25. Mineral oil for warm climate
Spare part number: 15079569



Figure 28

26. The air conditioning system is filled with R134a.
Spare part number: 16354766

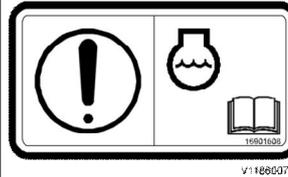


Figure 29

27. WARNING! Only use Volvo coolant VCS – read the Operator's Manual
Spare part number North America: 16902967
Spare part number, all other markets: 16901608

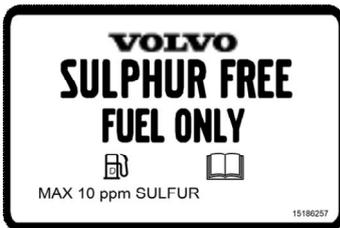


Figure 30

28. Fuel decal
Max. 10 ppm SULPHUR (only EU).
Spare part number: 15186257

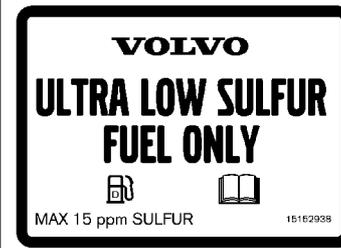


Figure 31

29. Fuel decal
Max. 15 ppm SULPHUR (only North America).
Spare part number: 15152938



Figure 32

30. WARNING! The machine may not carry a heavier load than that which is stated on the decal (only on machines with body extensions for light materials).
Spare part number: 16929637, 16929636

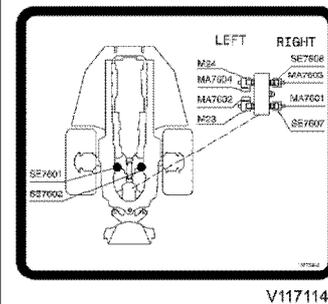


Figure 33

31. Hydraulic suspension
Spare part number: 16917919



Figure 34

32. Hydraulic oil
Spare part number: 4948103

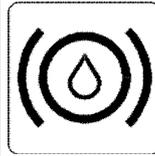


Figure 35

33. Brake cooling oil
Spare part number: 15042783

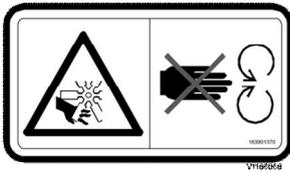


Figure 36

34. WARNING! Rotating parts
Spare part number North America: 16929622
Spare part number China: 16925041
Spare part number, all other markets: 16901370

A60 H =55 000 kg (121 000 lb)			
Bridgestone	33.25 R29 VLT	375 kPa (54.5 psi)	500 kPa (72.5 psi)
Bridgestone	33.25 R29 VLTS	375 kPa (54.5 psi)	500 kPa (72.5 psi)
Goodyear	33.25 R29 TL-3A+	350 kPa (50.9 psi)	500 kPa (72.5 psi)
Goodyear	33.25 R29 TL-4A+	350 kPa (50.9 psi)	500 kPa (72.5 psi)
Michelin	800/80 R29 X-ST+	375 kPa (54.5 psi)	475 kPa (68.9 psi)
Michelin	33.25 R29 XTS	375 kPa (54.5 psi)	475 kPa (68.9 psi)
Michelin	33.25 R29 Xtra Defend	375 kPa (54.5 psi)	475 kPa (68.9 psi)

Figure 37

35. Tyre pressure
Spare part number: 54116770

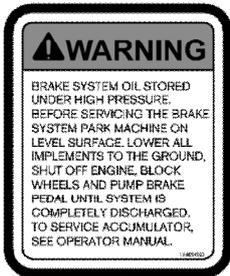


Figure 38

NOTE! Only North American market.
36. WARNING! High pressure in the brake system
Spare part number: 16929630



Figure 39

NOTE! Only North American market.
37. WARNING! Spring under high pressure
Spare part number: 4952177



Figure 40

NOTE! Only North American market.
38. Disconnect the steering joint lock before moving the machine



Figure 41

NOTE! Only North American market.
39. Do not use flammable gas in the air intake. Risk of fire.
Spare part number: 16929629

Spare part number: 16929628



V1186013

Figure 42

NOTE! Only North American market.

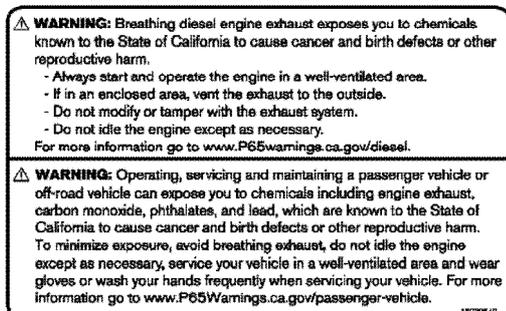
40. Information compressed air system. Turn off the engine and depressurise the systems before checking and servicing.
Spare part number: 16929631



V1186014

Figure 43

41. Apply the parking brake before leaving the operator's seat
Spare part number: 16929634

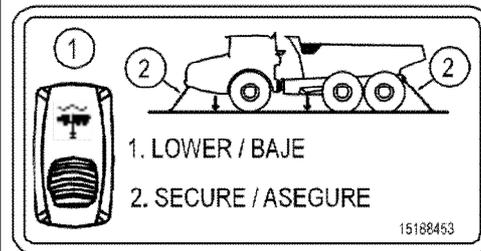


V1197392

Figure 44

NOTE! Only North American market.

42. Information diesel exhausts
Spare part number: 16939540

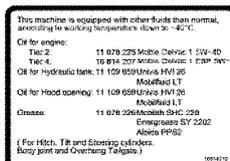


15188453

V1178504

Figure 45

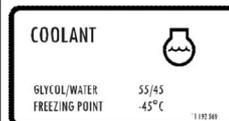
43. For all lashing in connection with transport of FS-machine, lower the machine to bottom position
Spare part number: 15188453



V1681210

Figure 46

44. The machine is equipped with other fluids than normal for operating in temperatures down to -40 °C
Spare part number: 16814210



V1192569

Figure 47

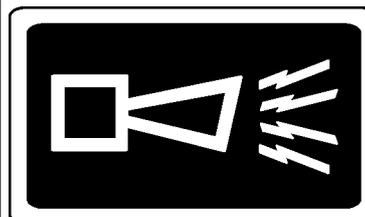
45. The machine has coolant with another mix ratio than normal for operating in temperatures down to -45 °C
Spare part number: 11192569



V16315807

Figure 48

46. Overhung tailgate
Spare part number North America: 16929635
Spare part number China: 16315807



V1082252

Figure 49

47. Strobe light and sound

Spare part number, all other markets: 16315805

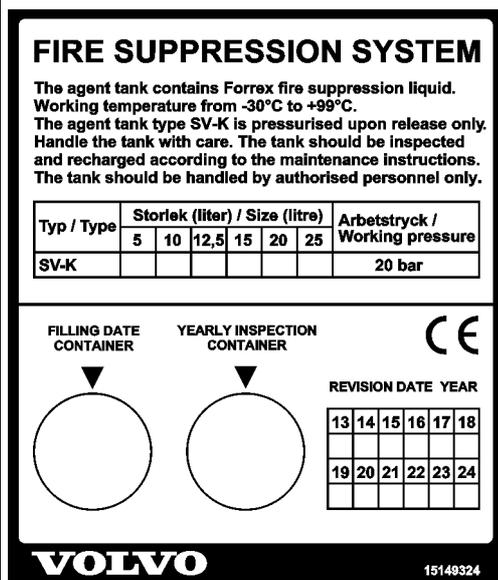


Figure 50

48. Extinguishing agent tank decal
Fire Suppression System (optional equipment)
Spare part number: 15149324

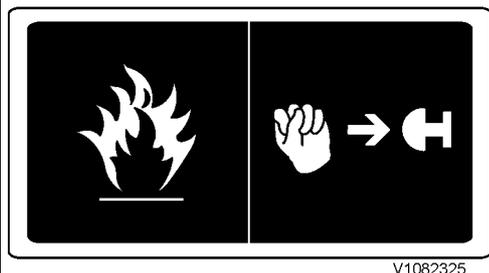


Figure 52

50. Inner activation button
Fire Suppression System (optional equipment)
Spare part number: 15126372



Figure 54

52. Handheld fire extinguisher

Fire Suppression System (optional equipment)
Spare part number: 15126353

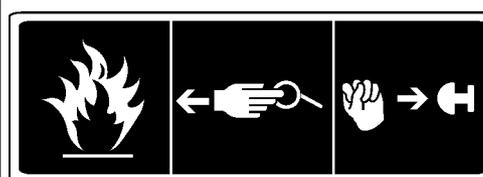


Figure 51

49. Manual activation
Fire Suppression System (optional equipment)
Spare part number: 15126559



Figure 53

51. Battery disconnect
Fire Suppression System (optional equipment)
Spare part number: 11026729

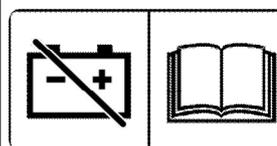
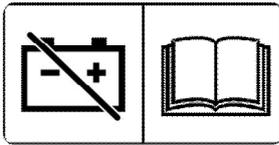


Figure 55

53. Emergency switch
Spare part number: 55281792

Fire Suppression System (optional equipment)
Spare part number: 15126327



V1151528

Figure 56

54. Service switch
Spare part number: 16892452



V117111

Figure 57

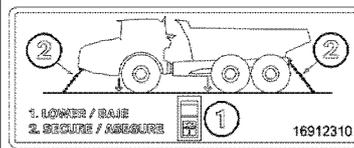
55. Brake cooling oil level
Spare part number: 16898873



V117111B

Figure 58

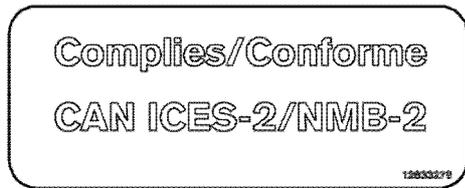
56. Hydraulic oil level
Spare part number: 16898871



V1171115

Figure 59

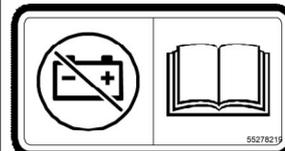
57. For all lashing in connection with transport of FS-machine, lower the machine to bottom position
Spare part number: 16912310



V1179124

Figure 60

NOTE! Only North American market.
58. Meets Canadian EMC-requirements
Spare part number: 12833278



V1232787

Figure 61

59. Emergency switch
Spare part number North America: 55278292
Spare part number, all other markets: 55278219

[1]Machines manufactured from May 2021.

[2]Machines manufactured before May 2021.

Document Title: Tightening torques	Function Group: 030	Information Type: Service Information	Date: 4/12/2025
Profile: A60H Volvo			

Tightening torques

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A60H Volvo			

The tightening torques in the following tables apply to bolts and nuts with tensile strength. The tables should be used as a general instruction for tightening bolts and nuts without specified values. The charts contains values for course thread bolts and nuts.

Torque values should be increased with $\approx 10\%$, for flange bolts.

All standard torques for bolts are without surface treatment.

The standard torque for bolts lubricated with oil should be reduced with 20% of the given value.

Standard tightening torque charts

Bolt size Metric Coarse Threads	Tensile strength 8.8		Tensile strength 10.9	
	(Nm)	(lbf ft)	(Nm)	(lbf ft)
M5	6	4	8	6
M6	10	7	14	11
M8	25	18	35	26
M10	50	37	70	52
M12	87	64	122	90
M14	139	103	195	144
M16	213	157	299	220
M18	293	216	413	305
M20	416	307	585	432
M24	719	530	1010	745
M27	1060	782	1490	1100
M30	1140	840	2025	1493
M36	2500	1844	3600	2653

Bolt size Inch SAE Coarse Threads	Tensile strength 5		Tensile strength 8	
	(lbf ft)	(Nm)	(lbf ft)	(Nm)
1/4	10	13,6	14	19
5/16	21	28,5	29	39,3
3/8	37	50,2	52	70
7/16	59	80	84	114
1/2	90	122	128	174
9/16	130	176	184	250
5/8	180	244	254	345
3/4	320	434	451	612

7/8	515	700	728	988
1	775	1052	1091	1480
1 1/8	953	1290	1545	2100
1 1/4	1344	1823	2180	2960
1 3/8	1600	2170	2650	3600
1 1/2	2000	2714	3200	4340

Document Title: Volvo standard tightening torques	Function Group: 030	Information Type: Service Information	Date: 4/12/2025
Profile: A60H Volvo			

Volvo standard tightening torques

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A60H Volvo			

The tightening torques in the following tables apply to bolts and nuts with tensile strength. The tables should be used as a general instruction for tightening bolts and nuts without specified values. The charts contains values for course thread bolts and nuts.

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M8	25	18	35	26
M10	50	37	70	52
M12	87	64	122	90
M14	139	103	195	144
M16	213	157	299	220
M18	293	216	413	305
M20	416	307	585	432
M24	719	530	1010	745
M27	1060	782	1490	1100
M30	1140	840	2025	1493
M36	2500	1844	3600	2653

Bolt size Inch SAE Coarse Threads	Tensile strength 5		Tensile strength 8	
	(lbf ft)	(Nm)	(lbf ft)	(Nm)
1/4	10	13,6	14	19
5/16	21	28,5	29	39,3
3/8	37	50,2	52	70
7/16	59	80	84	114
1/2	90	122	128	174
9/16	130	176	184	250
5/8	180	244	254	345

3/4	320	434	451	612
7/8	515	700	728	988
1	775	1052	1091	1480
1 1/8	953	1290	1545	2100
1 1/4	1344	1823	2180	2960
1 3/8	1600	2170	2650	3600
1 1/2	2000	2714	3200	4340

Document Title: Weights	Function Group: 030	Information Type: Service Information	Date: 4/12/2025
Profile: A60H Volvo			

Weights

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A60H Volvo			

	kg (approx.)	lb.
Operating weight [T1] ⓘ	43700	96342
Engine, complete (dry weight)	1692	3730
Engine and transmission, complete (dry weight)	3210	7077
Transmission (dry weight)	1071	2361
Dropbox (dry weight)	550	1213
Front axle (dry weight)	2610	5754
Front bogie axle (dry weight)	2710	5975
Rear bogie axle (dry weight)	2600	5732

[T1] If the machine is equipped with body extensions for light materials, operating weight increases by 2830 kg (6239 lb)

Document Title: Tyre equipment and recommended tyre pressures	Function Group: 030	Information Type: Service Information	Date: 4/12/2025
Profile: A60H Volvo			

Tyre equipment and recommended tyre pressures

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A60H Volvo			

If tyres other than those specified are used, contact the tyre manufacturer's dealer for information about correct rolling circumference and air pressure.

NOTE!

Avoid mixing tyres with different circumferences and type designations on the same axle. This may lead to unnecessary wear on the drive train and also other properties of the machine.

NOTE!

Remember that changing to another type of tyre requires changes in the machine's software via the authorised service tool.

NOTE!

Inspection of load weighing should take place in connection with changing wheels. Inspection of the cable and its attachment points as well as load cell must take place.

Air pressure in tyres at 55 000 kg (121 000 lb) payload [T1] ⓘ			
Tyre equipment	Front kPa (psi)	Rear kPa (psi)	Parameter value for speedometer (QM). mm (in)
Bridgestone 33.25 R29 VLT	375 (54.5)	500 (72.5)	6400 (252)
Bridgestone 33.25 R29 VLTS	375 (54.5)	500 (72.5)	6400 (252)
Goodyear 33.25 R29 TL-3A+	350 (50.9)	500 (72.5)	6400 (252)
Goodyear 33.25 R29 TL-4A+	350 (50.9)	500 (72.5)	6400 (252)
Michelin 800/80 R29 X-ST+	375 (54.5)	475 (68.9)	6100 (240)
Michelin 33.25 R29 XTS	375 (54.5)	475 (68.9)	6400 (252)
Michelin 33.25 R29 Xtra Defend	375 (54.5)	475 (68.9)	6400 (252)

[T1]Specified payload is maximum load for a standard machine, also for individual occasions. Conversion of the machine or fitting optional equipment may require other tyre pressures. If this is the case then approval for use and recommended tyre pressure for the changed conditions are obtained from the tyre supplier.

Maximum permitted difference in rolling circumference

If a situation should nevertheless arise where different types of tyre must be used, there are rules for how much difference in rolling circumference is permitted.

Different values apply, depending on where on the machine the tyre is fitted.

Different cases	Maximum permitted difference in rolling circumference
1	2% Tyres with greatest rolling circumference must be fitted on the front axle
2	1,5%

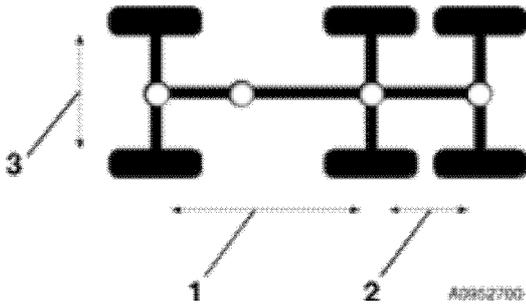


Figure 1

Example of calculation of difference in rolling circumference

Conditions

Case 3 – tyres on the same axle

Rolling circumference according to the tyre supplier:

Michelin 800/80 R29 X-ST+ — 6005 mm

Goodyear 33.25 R29 TL-4A+ — 6297 mm

Calculation: $6297/6005 \approx 1.049$

Answer: 4.9%

Conclusion: Maximum permitted difference is 1.5% and the calculation result is 4.9%, which means that mixing these tyres is **not** approved.

Document Title: Operation numbers for additional work	Function Group: 070	Information Type: Service Information	Date: 4/12/2025
Profile: Articulated Haulers (ART)			

Operation numbers for additional work

Showing Selected Profile

These operations can be used to identify work that is not included in the time guide or described in the methods in the Service Manual. When these operations are used, a description of the work that has been performed must be provided.

Other work related to engine

Op. no. 070-210

This operation can be used when work has been done related to the engine and function group 2 when no applicable method description was available. When this operation is used, additional information is required:

- Description of work that has been done

Other work related to electrical system

Op. no. 070-310

This operation can be used when work has been done related to the electrical system and function group 3 when no applicable method description was available. When this operation is used, additional information is required:

- Description of work that has been done

Other work related to transmission, gearbox, travel motor, swing motor

Op. no. 070-410

This operation can be used when work has been done related to the transmission, gearbox, travel motor or swing motor and function group 4 when no applicable method description was available. When this operation is used, additional information is required:

- Description of work that has been done

Other work related to drive axle

Op. no. 070-470

This operation can be used when work has been done related to the drive axle and function group 46 when no applicable method description was available. When this operation is used, additional information is required:

- Description of required work that have been done

Other work related to brake system

Op. no. 070-510

This operation can be used when work has been done related to the brake system and function group 5 when no applicable

method description was available. When this operation is used, additional information is required:

- Description of work that has been done

Other work related to steering system

Op. no. 070-610

This operation can be used when work has been done related to the steering system and function group 6 when no applicable method description was available. When this operation is used, additional information is required:

- Description of work that has been done

Other work related to frame link, axle suspension

Op. no. 070-710

This operation can be used when work has been done related to the frame link, axle suspension and other parts related to function group 7 when no applicable method description was available. When this operation is used, additional information is required:

- Description of work that has been done

Other work related to cab, air conditioning

Op. no. 070-810

This operation can be used when work has been done related to the cab, air conditioning and other parts related to function group 8 when no applicable method description was available. When this operation is used, additional information is required:

- Description of work that has been done

Other work related to hydraulic system

Op. no. 070-910

This operation can be used when work has been done related to the hydraulic system and other parts related to function group 9 when no applicable method description was available. When this operation is used, additional information is required:

- Description of work that has been done

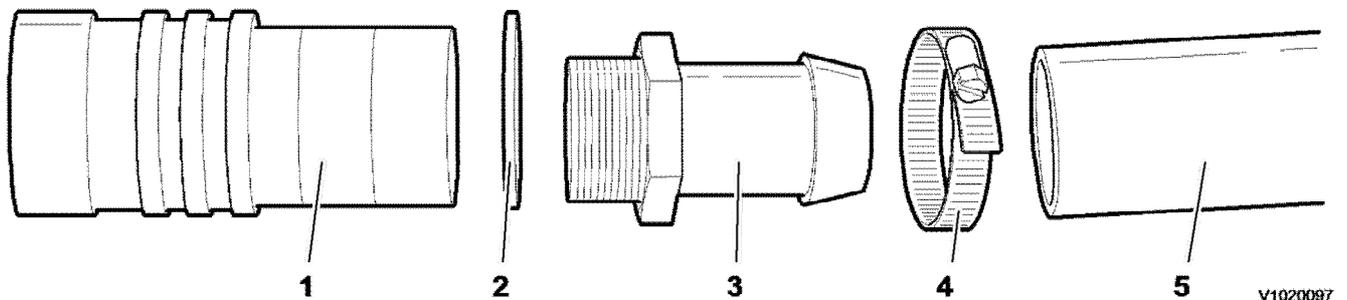
Document Title: E-1763	Function Group: 080	Information Type: Service Information	Date: 4/12/2025
Profile: A60H Volvo			

E-1763

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A60H Volvo			

E1763, Drain hose



V1020097

Figure 1

E1763

1. 4880194 Quick coupler
2. 948883 Seal ring
3. 4786606 Nipple
4. 13943472 Hose clip
5. 13946652 Hose

NOTE!

All included parts can be ordered as spare part from Volvo CE.

Document Title: E-2005	Function Group: 080	Information Type: Service Information	Date: 4/12/2025
Profile: A60H Volvo			

E-2005

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A60H Volvo			

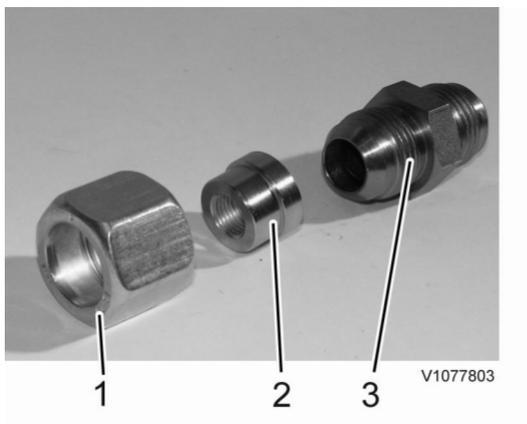


Figure 1

E-tool 2005

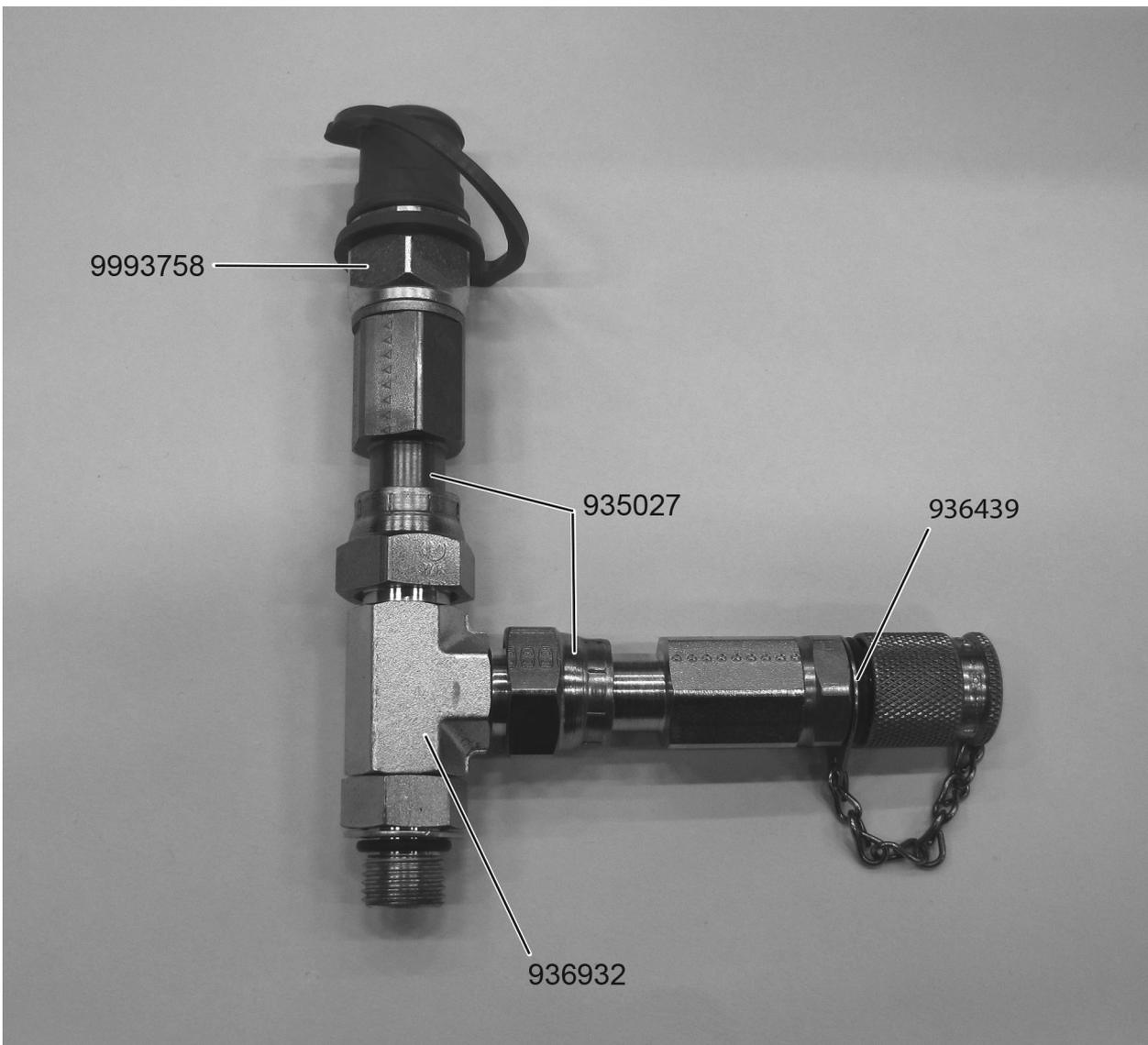
1. Coupling nut 931206
2. Test nipple 11054368 Thread R1/4"
3. Nipple 929315

Document Title: E-2014	Function Group: 080	Information Type: Service Information	Date: 4/12/2025
Profile: A60H Volvo			

E-2014

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A60H Volvo			



V1138633

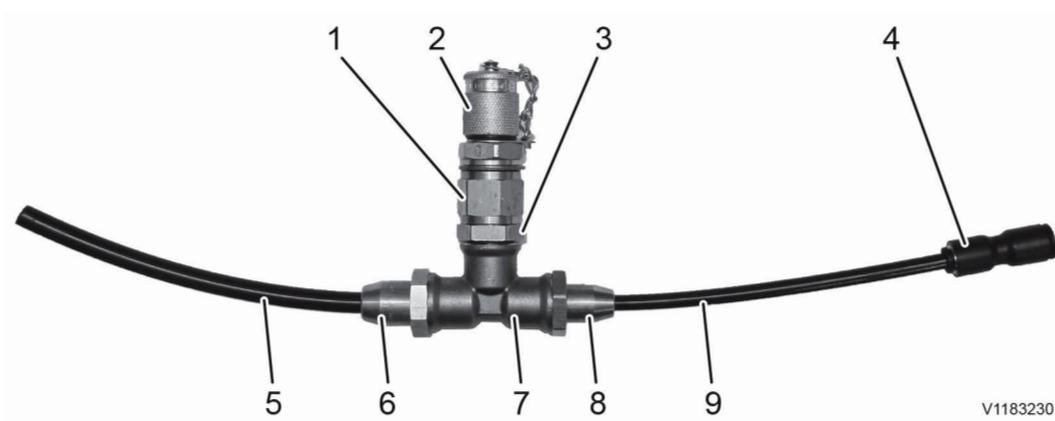
Figure 1

Document Title: E-2016	Function Group: 080	Information Type: Service Information	Date: 4/12/2025
Profile: A60H Volvo			

E-2016

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A60H Volvo	Braås	340001	349999



V1183230

Figure 1

1. 88830130 Nipple
2. 15018967 Testing nipple
3. 11196161 Nipple
4. 17413665 Connector Ø 6/8 mm
5. 980832 Tube Ø 8 mm
6. 977789 Fitting Ø 8 mm
7. 15023142 T-coupling
8. 979282 Fitting Ø 6 mm
9. 980831 Tube Ø 6mm

Document Title: E-2501	Function Group: 080	Information Type: Service Information	Date: 4/12/2025
Profile: A60H Volvo			

E-2501

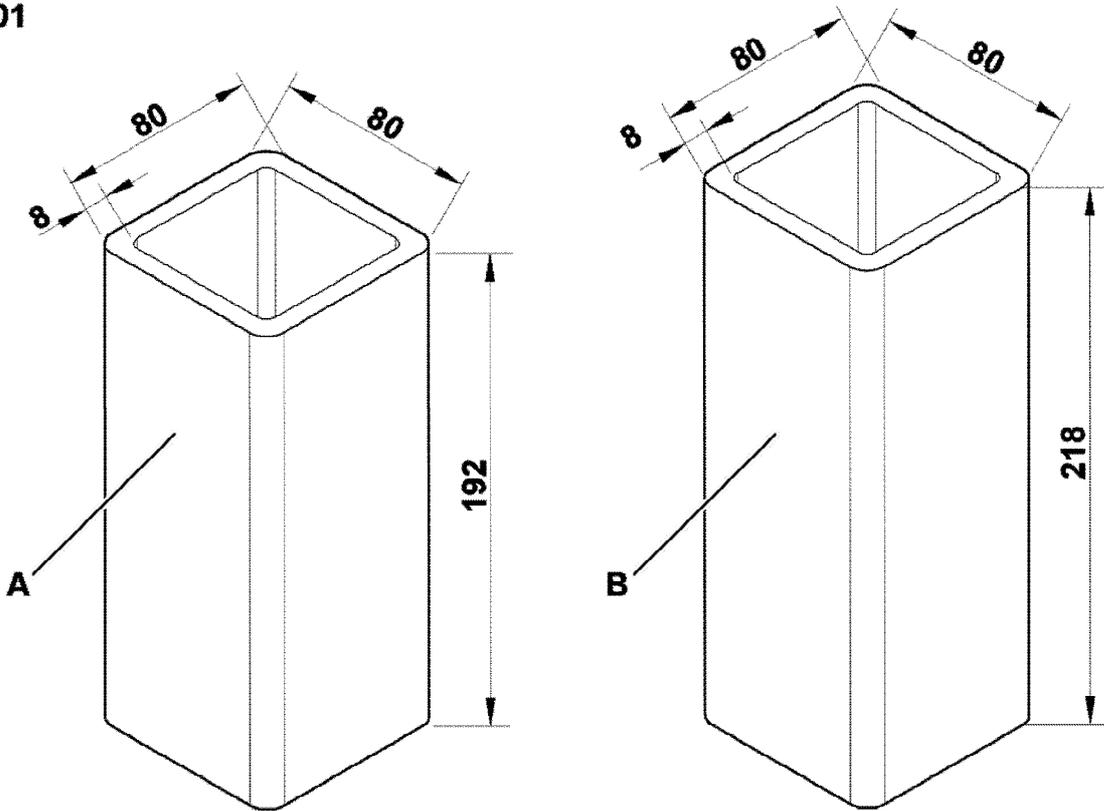
Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A60H Volvo			

Axle support, trailer unit

Dimensions on the drawing are given in mm.

E-2501



V1056454

Figure 1

Axle support rear,

Material: 2172 (S355JR)

- A. First axle x2
- B. Second axle x2