

Document Title: Description, machine	complete	Function Group: 000	Information Type: Service Information	Date: 3/29/2025
Profile: A35E Volvo				

Description

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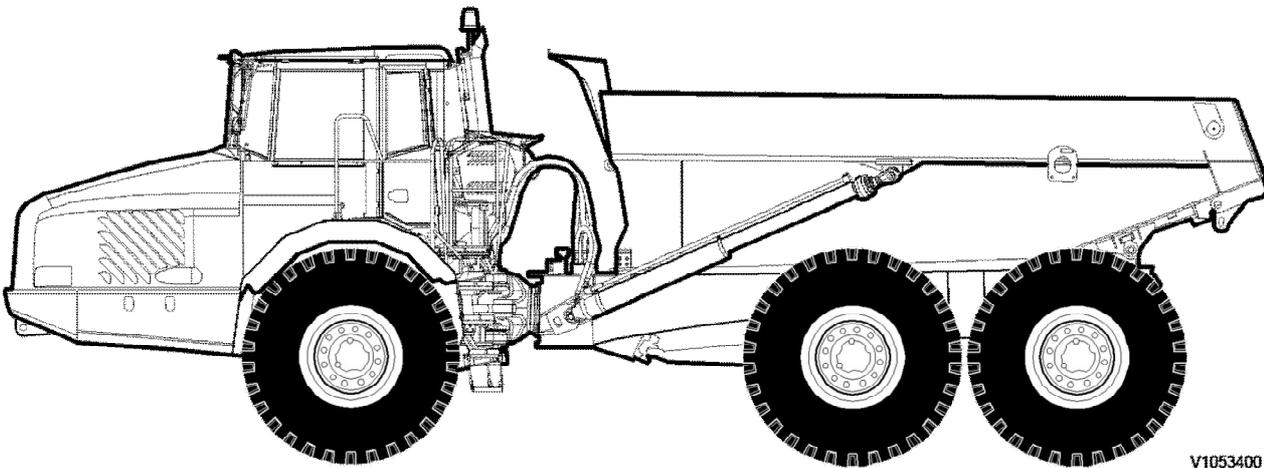
Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A35E Volvo			

Articulated haulers A35E/A40E and A35E FS/A40E FS consist of two main sections, the tractor unit and the load unit. The two units are joined by means of the articulation joint, which allows movement about a vertical bearing for steering. The articulation joint also allows the units to rotate in relation to each other around the longitudinal axis.

The tractor unit consists of a six-cylinder diesel engine, transmission and dropbox as well as a drive shaft. The cab is suspended on rubber mountings in the frame. The frame is independently suspended in relation to the drive shaft. For a more detailed description of the FS machines, see [Full Suspension, description](#)

The load unit consists of a frame, elevation load body, as well as a front and rear drive axle, which are linked by the bogie suspension.

The articulated hauler has constant 4-wheel drive with the possibility of engaging and disengaging 6-wheel drive. It has a longitudinal differential lock in the dropbox and differential locks in the drive axles.



V1053400

Figure 1

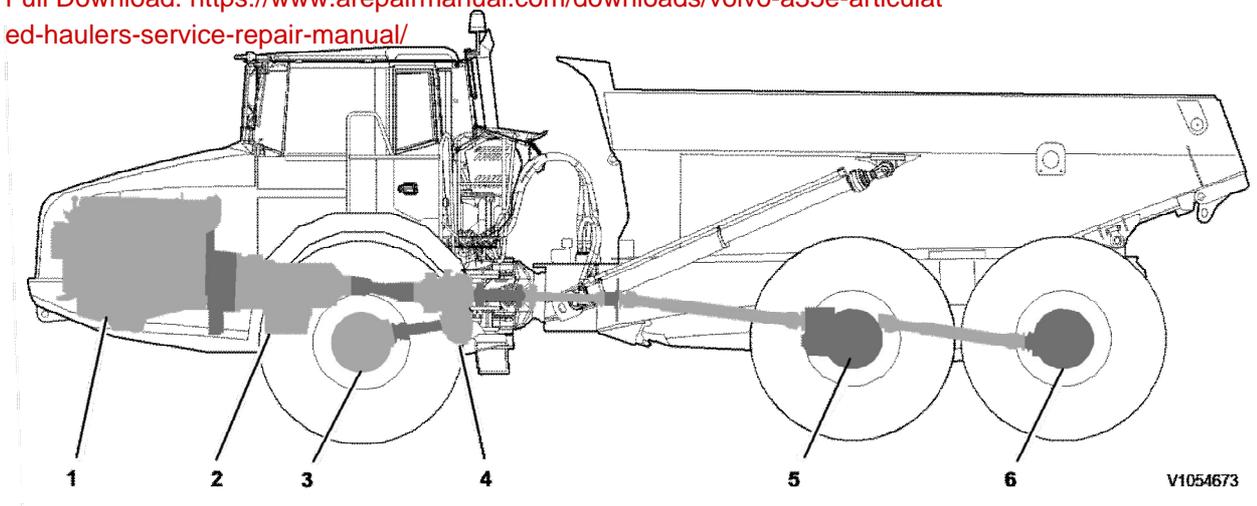


Figure 2

Type and product number

1. Engine (see [Engine, specifications](#))
2. Transmission (see [Hydraulic transmission, specifications](#))
3. Front axle (see [Axles, specifications](#))
4. Dropbox (see [Dropbox, specifications](#))
5. Front bogie axle (see [Axles, specifications](#))
6. Rear bogie axle (see [Axles, specifications](#))

Document Title: Product identification plates	Function Group: 000	Information Type: Service Information	Date: 3/29/2025
Profile: A35E Volvo			

Product identification plates

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A35E Volvo			

The following text with numbers refers to the illustration, and shows which product identification plates should be on the machine. The **Product Identification Number (PIN)** and machine model must always be correctly quoted when ordering spare parts and in any telephone enquiries or correspondence regarding service matters.

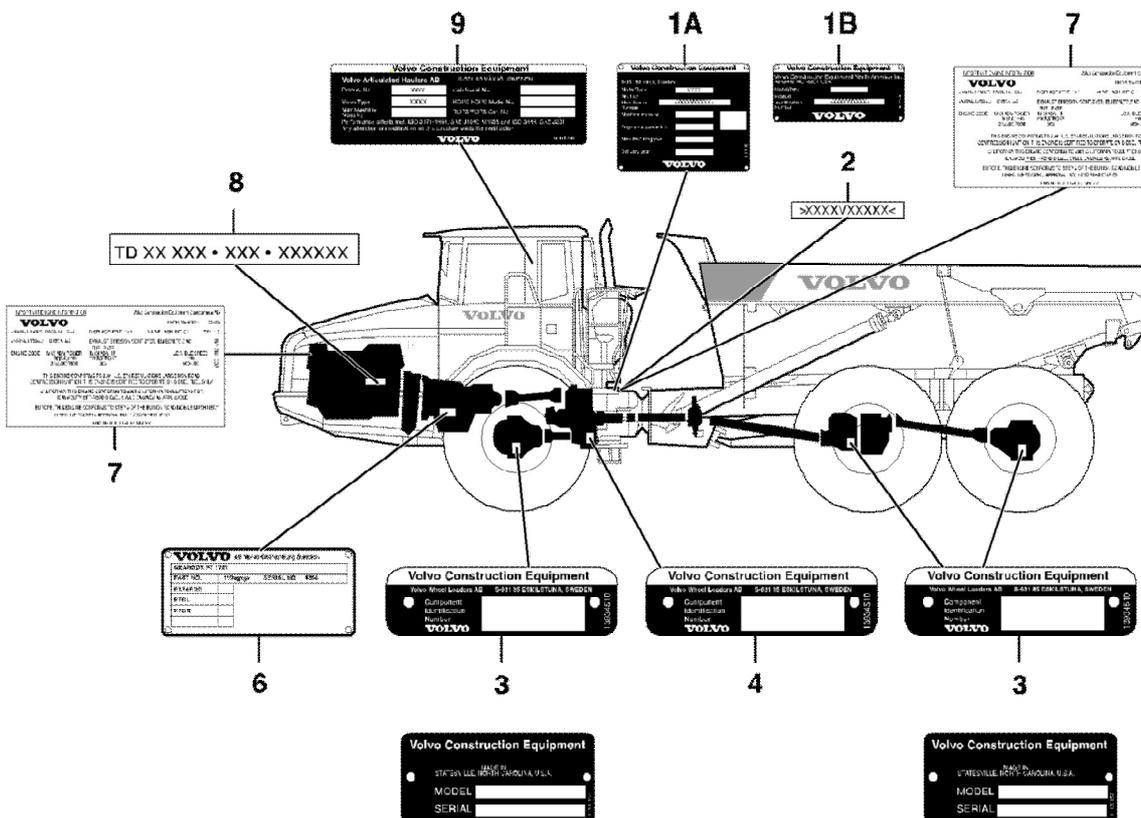


Figure 1
Position of product identification plates

- Product identification plate with **Product Identification Number, PIN**, for a complete machine (includes model, product and serial number, weight, engine output and, if applicable, CE certification). The plate is affixed on the left-hand side of the tractor unit frame next to the steering joint.
1A: Product identification plate variant for markets outside USA.
1B: Product identification plate variant for USA market.
- The machine's serial number is also stamped on the right side of the tractor unit's frame, by the steering joint.
- Drive axle serial numbers are located on the axle housing.
- The dropbox's serial number is located on the right rear of the dropbox.

5. The brakes' type designation and serial number are located on the brake housing's end plate.
6. The transmission's type designation and serial number are located on the left side of the transmission.
7. Supplementary sticker with important engine data is located on the valve cover for engine D12D. For engine D12C the supplementary sticker is located on the engine's right side
8. Information about the engine and which type of machine it is installed in is stamped on the cylinder block's right side, on a plate next to the stamping as well as on a sticker on the engine ECU (E-ECU). The E-ECU is located on the engine's left side.
9. Cab type, type approval and serial number is located on the right inside the cab.

Document Title: Information and warning decals	Function Group: 000	Information Type: Service Information	Date: 3/29/2025
Profile: A35E Volvo			

Information and warning decals

Showing Selected Profile

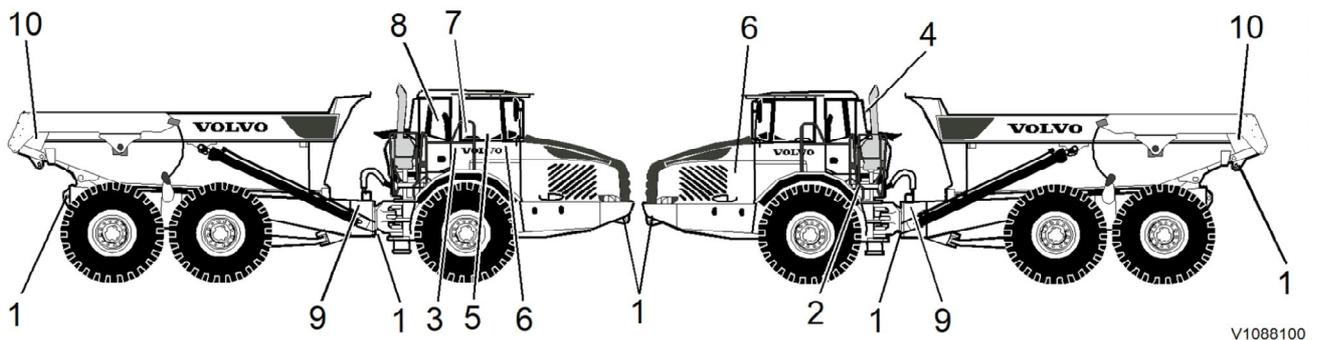
Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A35E Volvo			

Below are the warning and information texts found on the machine. The operator must be familiar with and observe the warnings and information given on labels and plates. Decals / plates that are missing, damaged, painted over or otherwise no longer legible must be replaced immediately.

Spare part number (order number) is shown on each plate / decal, as well as in the spare parts catalogue.

NOTE!

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



V1088100

Figure 1

<p>11.028.730 V1054191</p> <p>1. LOWER / BAJE 2. SECURE / ASEGURE</p> <p>V1088105</p>	<p>V1054190</p> <p>2. Battery disconnect switch</p>
<p>13620009 V1086511</p> <p>3. Avoid spraying water at air inlets.</p>	<p>WARNING</p> <p>ONLY FOR LIGHT MATERIAL (0.9 tonnes/m³) (0.76 sh tons/yard³)</p> <p>DRIVING SPEED MUST BE ADJUSTED TO THE HIGHER CENTRE OF GRAVITY</p> <p>ALWAYS MAKE SURE TAILGATE OPENS BEFORE DUMPING</p> <p>V1086555</p> <p>4. WARNING! The machine may not be loaded heavier than that which is stated on the decal (optional equipment on machines with body extensions for light materials).</p>



5. **WARNING!** Do not operate downhill with the gear selector in N-position. Only shift gears with the gas pedal let up.

NOTICE: R134a AC-SYSTEM
 System designed acc. to SAE J639 rnu.nov91
 Caution: System to be serviced by VCE qualified personnel.
 See VCE service instruction.
Volvo Construction Equipment

Volvo Construction Equipment
 LUFTKÖND FYLLED MED 2.3-0.1 KG R134a
 ÖPPNINGSTRYCK SÄKERHETSVENTIL 38±3 BAR
 AIR COND. CHARGED WITH 2.3-0.1 KG R134a
 HIGH PRESSURE RELIEF VALVE SETTING 38±3 BAR

6. Air conditioning filled with R134a. Opening pressure safety valve (optional equipment)

VARNING!
 ANVÄND INTE DEN ÖVFRISÄGDA BÄRLÄMMEN
 OM RISK FÖRE OÖSÄKRATT DENNA
 KAN ULÖDOLKA LAST I VID TRIPNING
 ÖLYCKOR TILL FÖLJ DÅ ATT MASKINEN VÄLTCHE
 ELLER ATT UNDERLAGET GER VÄGA
 KAN FÖRORSKA PERSONSKADOR OCH SÄNDOR PÅ MASKINEN



7. **WARNING!** Do not use the overhung tailgate (optional equipment) if there is any risk that it can block the load when dumping. Accidents as a result of the machine turning over or the ground giving way can cause personal injuries and machine damage.

8. Emergency exit



9. **WARNING!** Risk of crushing – frame steering



10. **WARNING!** Do not enter the work area of a reversing machine

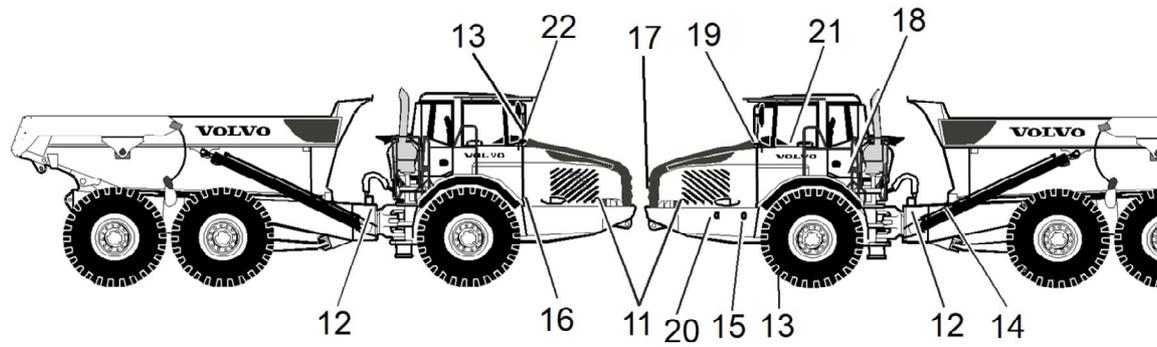


Figure 2



11. **WARNING!** Rotating fan



12. **WARNING!** Do not lean in under a raised load body without first securing it.

Document Title: Tightening torques	Function Group: 030	Information Type: Service Information	Date: 3/29/2025
Profile: A35E Volvo			

Tightening torques

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A35E 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: 3/29/2025
Profile: A35E Volvo			

Volvo standard tightening torques

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A35E 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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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)
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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: Capacities	Function Group: 030	Information Type: Service Information	Date: 3/29/2025
Profile: A35E Volvo			

Capacities

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A35E Volvo			

	when changing	total
Engine oil, incl. filter A35E	49 l (12.9 US gal)	50 l (13.2 US gal)
Engine oil, incl. filter A35E FS	49 l (12.9 US gal)	50 l (13.2 US gal)
Engine oil, incl. filter A40E	54 l (14.2 US gal)	55 l (14.5 US gal)
Engine oil, incl. filter A40E FS	54 l (14.2 US gal)	55 l (14.5 US gal)
Cooling system	90 l (23.7 US gal)	100 l (26.4 US gal)
Transmission, including filters and cooler	34 l (8.9 US gal)	38 l (10 US gal)
Dropbox	8,5 l (2.24 US gal)	10,4 l (2.74 US gal)
Front axle (drive axle)	26 l (6.9 US gal)	28 l (7.3 US gal)
Front bogie axle	28 l (7.3 US gal)	32 l (8.5 US gal)
Rear bogie axle	26 l (6.9 US gal)	29 l (7.7 US gal)
Frame joint bearings A35E/A35E FS	3 l (0.79 US gal)	3 l (0.79 US gal)
Frame joint bearings A40E/A40E FS	4 l (1.05 US gal)	4 l (1.05 US gal)
Brake cooling system, total (Incl. tank, pump, lines and filter)	210 l (55 US gal)	220 l (58 US gal) (Level glass, max)
Brake cooling system		140 l (37 US gal)
Brake cooling oil tank		80 l (21 US gal)
Hydraulic oil tank		262 (69.2 US gal)
Brake/Hydraulic system A35E	245 l (65 US gal)	400 l (105.6 US gal)
Brake/Hydraulic system A40E	275 l (73 US gal)	
Brake/Hydraulic system A35E/A40E FS	275 l (73 US gal)	450 l (119 US gal)
Fuel tank A35E/A35E FS		480 l (126.8 US gal)
Fuel tank A40E/A40E FS		545 l (144.5 US gal)
Oil-bath cleaner (optional equipment)	9 l (2.37 US gal)	9,1 l (2.40 US gal)

Document Title: Machine dimensions	Function Group: 030	Information Type: Service Information	Date: 3/29/2025
Profile: A35E Volvo			

Machine dimensions

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A35E Volvo			

A35E

The letters in the figures refer to the table below.

NOTE!

All dimensions apply to machine equipped with tires Michelin 26,5 R25 XADN

Dimensions apply to unloaded machine	dimension	mm (inch)	in
Total length	A	11182	440
Total length, tractor unit	A1	5476	216
Total length, load unit	A2	6242	246
Load body length, standard body	B	5531	218
Total height at top of exhaust pipe	C	3716	146
Height to cab roof	C1	3545	132
Width across cab	C2	1769	70
Overhang, towing eyes	D	3101	122
Distance, front axle – steering centre (articulation joint)	E	1278	50
Distance, drive axles	F	4578	180 (47.6 US gal)
Distance, bogie axles	G	1820	72
Overhang, rear	H	1683	66
Overhang, frame	I	650	26
Loading height	J	2939	116
Height to load body	K	2314	91
Free dumping height	L	899	35
Total height, elevated load body	M	7246	285
Outer turning radius	N	8826	347
Inner turning radius	N1	4423	174
Outside width, load body	O	3106	122
Inside width, load body	P	2870	113
Minimum ground clearance, load unit	R	580	23
Minimum ground clearance axle, load unit	R1	668	26
Maximum height, upper body plate	U	3521	139
Total height at front body plate (load body down)	U1	4042	159
Track width, load unit	V	2534	100
Total width, load unit	W	3258	128
Minimum ground clearance, tractor unit	X	521	21

Minimum ground clearance axle, tractor unit	X1	602	24
Minimum ground clearance, hitch	X2	754	30 (22.1)
Track width, tractor unit	Y	2534	100
Total width, tractor unit	Z	3258	128
Angle of approach	a1	23.3°	
Dumping angle	a2	72°	
Max. steering angle	a3	45°	

Dimensions without load applies to rubber spring in front axle with length 327 mm (12.9 in)

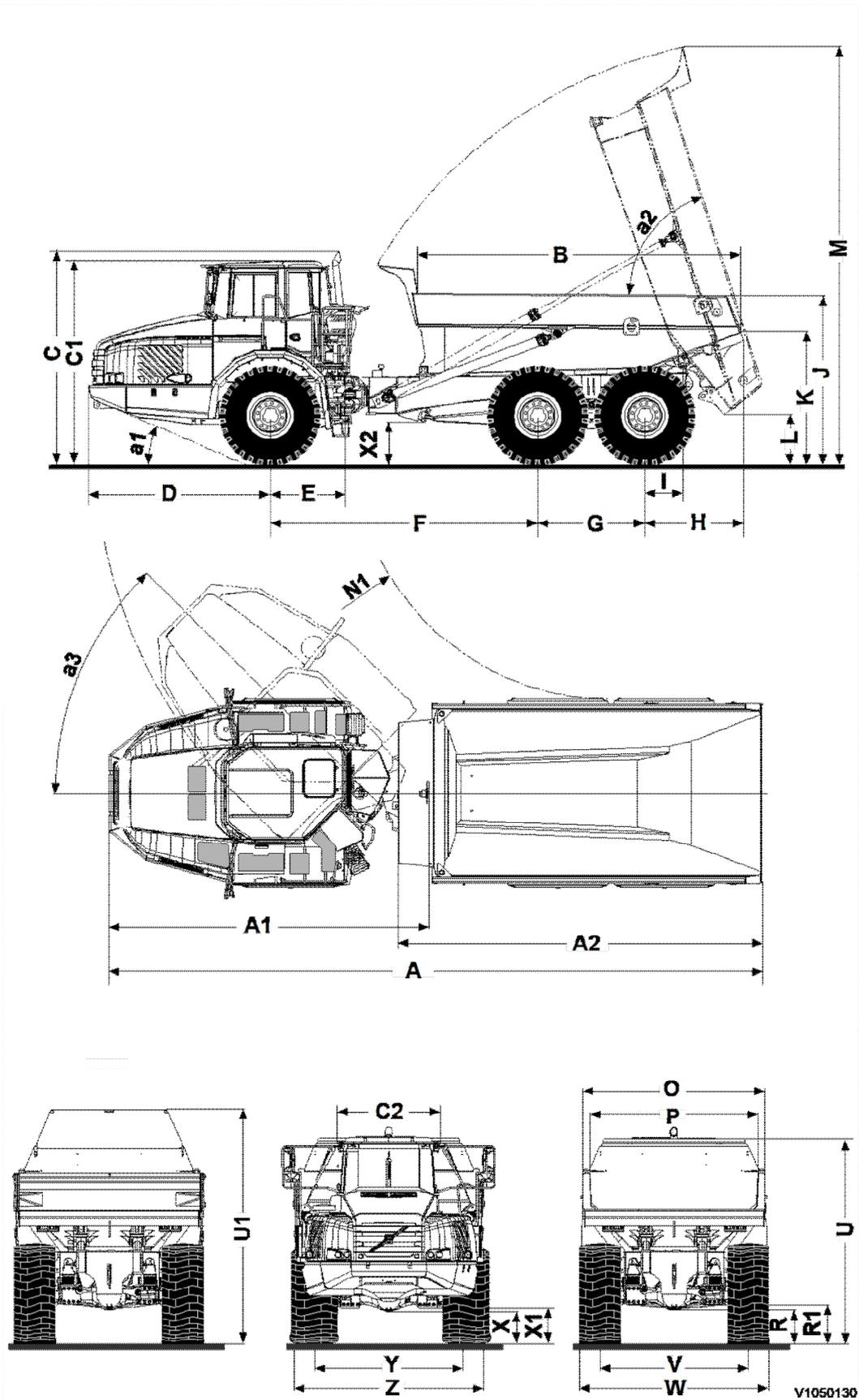


Figure 1
 V1050130

Document Title: Weights	Function Group: 030	Information Type: Service Information	Date: 3/29/2025
Profile: A35E Volvo			

Weights

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A35E Volvo			

	kg (approx.)	
Operating weight	28100	
Front axle (excl. oil)	1541	3397
Front bogie axle (excl. oil)	1613	3556
Rear bogie axle (excl. oil)	1508	3324
Max. load allowed on front axle	17700	
Max. load allowed on bogie axles	43900	
Total weight, maximum	61600	
Load capacity	33500	
Engine hood with front member	250	
Engine and transmission, complete	2100	
Engine, complete	1620	
Transmission	480	
Dropbox	500	

Document Title: Rocker arm shaft, tightening torques	Function Group: 030	Information Type: Service Information	Date: 3/29/2025
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Rocker arm shaft, tightening torques

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A35E Volvo			

Camshaft and rocker arm shaft

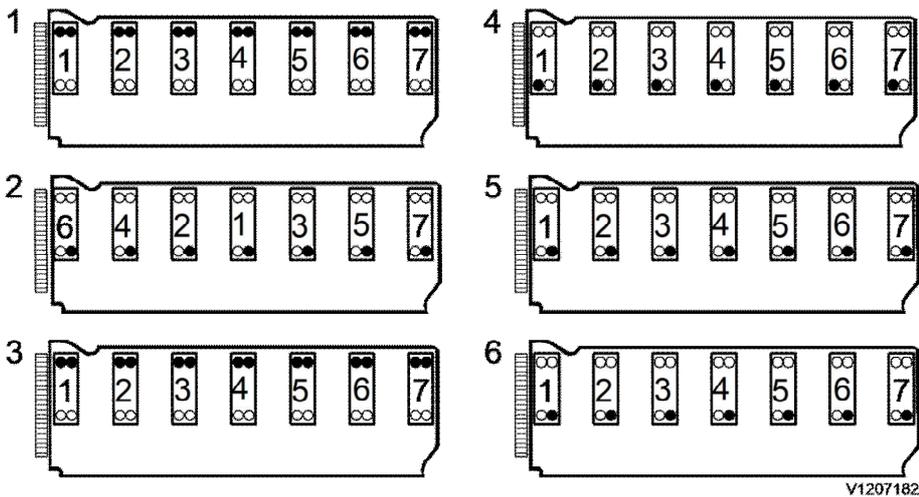


Figure 1

Step 1: Tighten the bolts in numerical order according to the figure	15 ±5 Nm (12 ±4 lbf ft)
Step 2: Tighten the bolts in numerical order according to the figure NOTE! Tighten the bolts in steps to ensure that the rocker arm shaft comes down without bending.	60 ±5 Nm (44 ±4 lbf ft)
Step 3: Angle-tighten the bolts in numerical order according to the figure	90° ±5°
Step 4: Tighten + angle-tighten the bolts in numerical order according to the figure	15 ±5 Nm (12 ±4 lbf ft) + 120° ±5°
Step 5	Loosen the bolts
Step 6: Tighten + angle-tighten the bolts in numerical order according to the figure	15 ±5 Nm (12 ±4 lbf ft) + 120° ±5°

Document Title: Rocker arm shaft, tightening torques	Function Group: 030	Information Type: Service Information	Date: 3/29/2025
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Rocker arm shaft, tightening torques

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A35E Volvo			

Bearing cap, camshaft / rocker arm shaft	
Sep 1	15±5 Nm + 90±5°
Sep 2	60±5 Nm

NOTE!

In step two the bolts should be tightened in stages to safeguard that the rocker arm shaft is tightened down without being bent.

Sep 3	15±5 Nm + 120±5°
Step 4 (loosen the bolts)	60-0 Nm
Sep 5	15±5 Nm + 120±5°

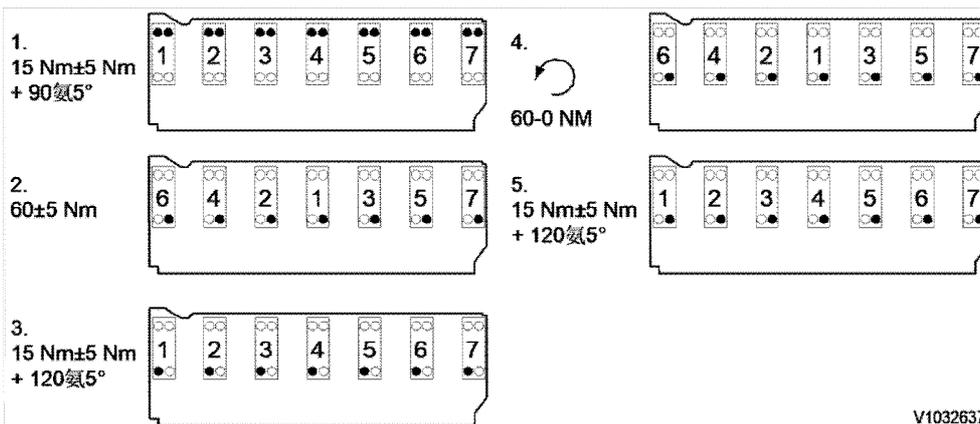


Figure 1

Document Title: Coolant with anti-freeze and corrosion protection, recommendation	Function Group: 030	Information Type: Service Information	Date: 3/29/2025
Profile: A35E Volvo			

Coolant with anti-freeze and corrosion protection, recommendation

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A35E Volvo			

Coolant

The cooling system is filled with **Volvo Coolant VCS**. Always use the same coolant that the system was previously filled with.

NOTE!

To avoid damage to the engine, different coolants must NOT be mixed. Nor may pure water be used alone.

When using concentrated coolant and pure water the mixture must contain 40–60% concentrated coolant and 40–60% pure water. The content of coolant must not be less than 40% of the total mixture, see table below

Anti-freeze protection down to	Mixture of concentrated coolant
-25°C	40%
-35°C	50%
-46°C	60%

If there is any doubt whether or not the water is absolutely pure then ready mixed coolant must be used.

Pure water for the cooling system must also fulfil the following requirements

Description	Value
Total quantity of fixed particles	< 340 ppm
Total hardness	< 9.5° dH
Chloride	< 40 ppm
Sulphate	< 100 ppm
pH-value	5.5 – 9
Silicon	< 20 mg SiO ₂ /litre
Iron	< 0.10 mg FE/litre
Manganese	< 0.05 mg Mn/litre
Electrical conductive capacity	< 500 µS/cm
Organic content, COD-Mn	< 15 mg/litre

NOTE!

To avoid damage to the engine, different ready mixed coolants must not be mixed.

Document Title: Tightening torques, valve cover	Function Group: 030	Information Type: Service Information	Date: 3/29/2025
Profile: A35E Volvo			

Tightening torques, valve cover

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A35E Volvo			

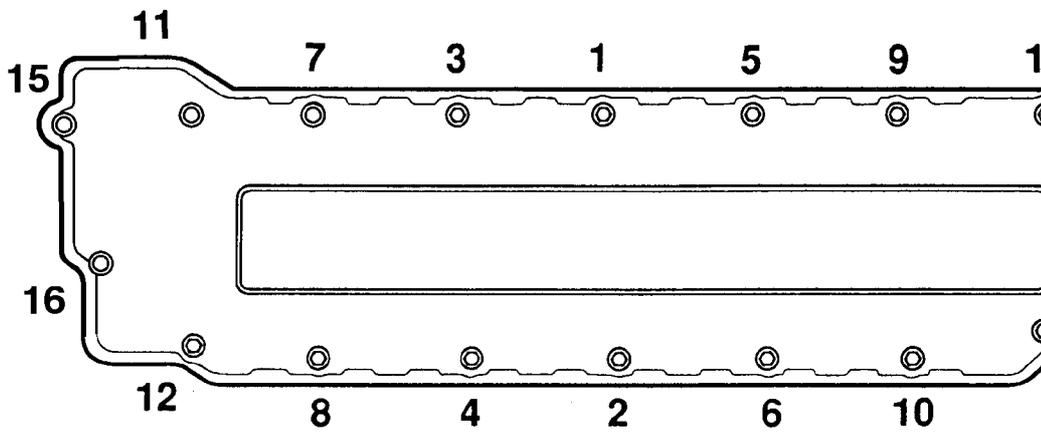


Figure 1
Tightening diagram, valve cover

	Nm	kpm
	20	2.0

Document Title: Power take-off, tightening torque	Function Group: 030	Information Type: Service Information	Date: 3/29/2025
Profile: A35E Volvo			

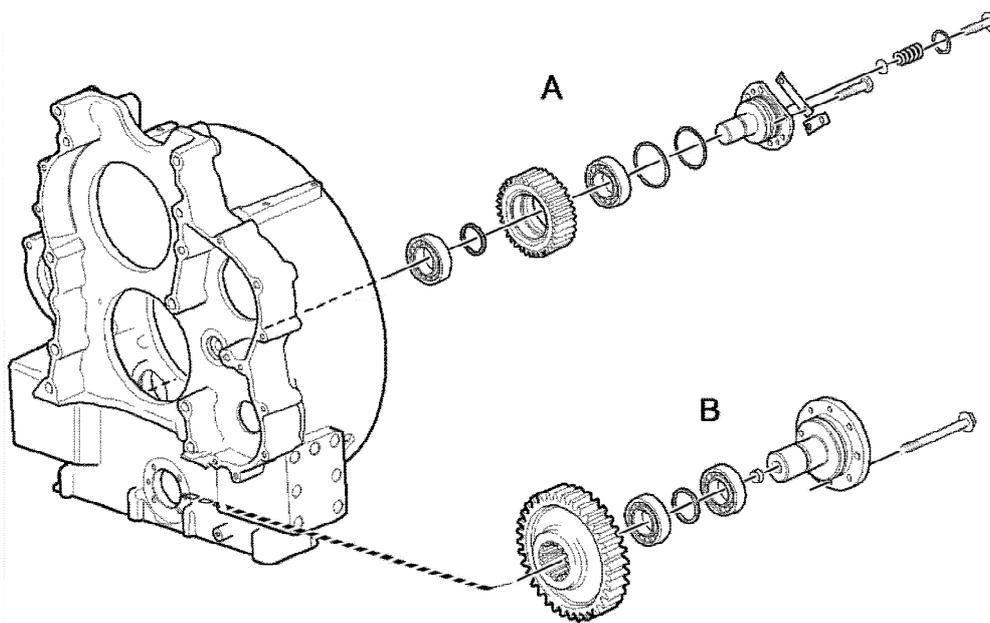
Power take-off, tightening torque

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A35E Volvo			

Between engine and transmission

Gear A	First tightening	10 – 15 Nm (7.3 – 11 lbf ft)
	Second tightening, apply thread locking fluid, medium	24 Nm (17.6 lbf ft)
Gear B		24 Nm (17.6 lbf ft)



V1074892

Figure 1
V1074892

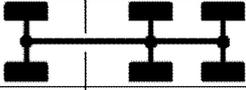
Document Title: Tyre equipment and recommended pressures	Function Group: 030	Information Type: Service Information	Date: 3/29/2025
Profile: A35E Volvo			

Tyre equipment and recommended tyre pressures

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A35E Volvo			

A35E, A35E FS

Ringtryck vid 32.5 tons last Tyre pressure at 32.5 metric ton payload		A35 E 6x6	
Däckutrustning Tyre equipment			
Bridgestone 26.5 R25 VLT **	375 kPa=54.5 psi	450 kPa=65.0 psi	
Bridgestone 26.5 R25 VLT-S **	375 kPa=54.5 psi	400 kPa=58.0 psi	
Continental 26.5 R25 STL2+ **	375 kPa=54.5 psi	450 kPa=65.0 psi	
Continental 26.5 R25 STL3 **	375 kPa=54.5 psi	450 kPa=65.0 psi	
Good Year 26.5 R25 RL-2+ **	375 kPa=54.5 psi	450 kPa=65.0 psi	
Good Year 26.5 R25 TL-3A+ **	375 kPa=54.5 psi	450 kPa=65.0 psi	
Good Year 26.5 R25 GP-4B **	375 kPa=54.5 psi	450 kPa=65.0 psi	
Good Year 775/65 R29 GP-4D **	330 kPa=48.0 psi	450 kPa=65.0 psi	
Michelin 26.5 R25 XADN **	350 kPa=51.0 psi	400 kPa=58.0 psi	
Michelin 26.5 R25 XADT **	350 kPa=51.0 psi	400 kPa=58.0 psi	
Michelin 775/65 R29 XAD **	300 kPa=44.0 psi	375 kPa=54.5 psi	

Kontakta din lokala VOLVO 經銷商 for ringtryck vid 鈇riga d鈇kutrustningar
Contact your local VOLVO dealer for tyre pressure for other tyre equipment

15000512
V1050053

Figure 1

A40E, A40E FS

Document Title: Lubrication specifications	Function Group: system, 030	Information Type: Service Information	Date: 3/29/2025
Profile: A35E Volvo			

Lubrication system, specifications

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A35E Volvo			

Oil pressure, minimum at low idle speed (warm engine)	150 kPa (22 psi)
Oil pressure, at maximum engine speed (warm engine)	300–550 kPa (44–80 psi)

Document Title: Recovering and towing	Function Group: 050	Information Type: Service Information	Date: 3/29/2025
Profile: A35E Volvo			

Recovering and towing

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A35E Volvo			

WARNING

Before starting any recovery or towing work, make sure that the parking brake is applied and the wheels are blocked to prevent the machine from rolling. Extreme caution must be observed in connection with towing to prevent accidents and personal injuries.

WARNING

If the engine cannot be started, the brake and steering functions will be severely limited. In such cases, towing should only be performed in an emergency situation by experienced and trained personnel and only for the shortest possible distance (see towing). If possible, transport the machine on a trailer.

General

If possible, the engine should be running while recovering/towing the machine to ensure satisfactory braking and steering performance.

Recovering

Use a towbar, heavy-gauge cable or chain connected to the towing eyes at the front or rear of the machine to tow the machine to a suitable place or passable road.

Towing

- If the machine has to be towed to a workshop after recovery, use a towbar or heavy-gauge towing cable connected to the front towing eyes.
- A towbar must always be used if the machine that is to be towed has no brake function.
- The towing vehicle or machine must always be at least as heavy as the towed machine and have sufficient engine and braking power to tow and brake both machines on uphill and downhill grades.
- Always tow the shortest possible distance.
- Maximum towing speed under all conditions is 10 km/h.

NOTE!

The engine cannot be started by towing the vehicle.

Case 1 (with engine running)

The gearshift selector should be in neutral and the parking brake in the operating position. The machine can be towed for 10 km without taking special action.

Case 2 (without engine running)

Since the transmission is not lubricated when the engine is not running, the propeller shaft between the transmission and dropbox shall be removed. Then lubrication to the dropbox is maintained at the same time as the machine can be steered.

Removing the propeller shaft

1. Place the machine in service position.
2. Block the wheels so that the machine cannot start to roll and release all brakes.
3. Make sure that the front or rear wheels are slightly raised off the ground before removing the propeller shaft's bolts.

Filling compressed air system

If necessary, the compressed air system can be filled through the filler valve on the front part of the load unit frame by using compressed air from another machine.

Releasing the parking brake

When filling through the filler valve on the compressed air tank, the parking brake is released. The required minimum pressure is approx. 470 kPa (4.7 bar).

The parking brake control must be in the operating position, that is, not applied.

After recovering/towing

The following safety measures should be taken before removing the towbar, heavy-gauge cable or chain after recovering/towing:

1. Park the machine on a level surface.
2. Apply the parking brake.
3. Block the wheels to prevent the machine from rolling.

Document Title: Lifting machine	Function Group: 050	Information Type: Service Information	Date: 3/29/2025
Profile: A35E Volvo			

Lifting machine

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
A35E Volvo			

Op nbr 09001-1



WARNING

Never stand under the machine when it is suspended in the air.



WARNING

The lifting tool may only be installed with the special nuts supplied with the tool.

The lifting tool is considered to be equipment

NOTE!

The lifting tool must only be installed on the machine when lifting and transporting it.

NOTE!

It is important that the correct tools and special nuts are used and that the lifting tool is fitted correctly.

Lifting tool	Nut
Part no. 15011655	Part no. 11193630

1. Park the machine on a level surface.
2. The machine must be switched off and the main current disconnected.
3. Lock the steering joint with the steering joint lock.

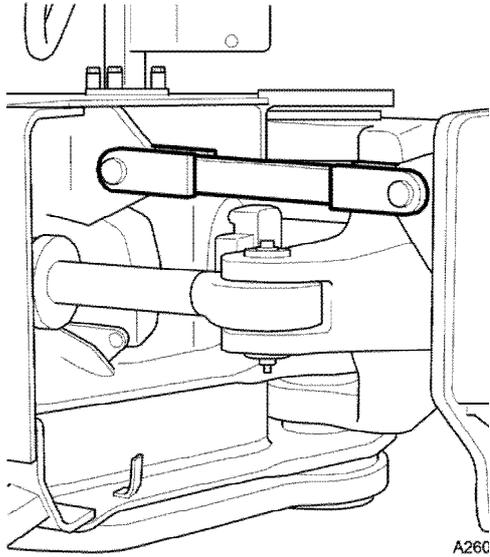


Figure 1
Steering joint lock

4. Fit the lifting tool onto the front axle and the front bogie axle and tighten the nuts crosswise **200 Nm (148 lbf ft)**.

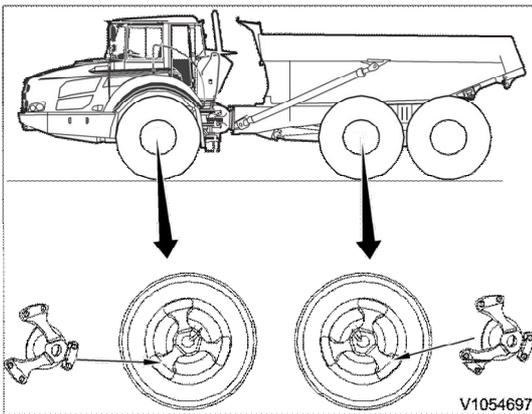


Figure 2

⚠ WARNING

Do not lift the machine by the load body eyes.

The four lifting slings must have the same length and be at least 8.5 m (335 in)

5. Connect four lifting slings to the lifting tools.

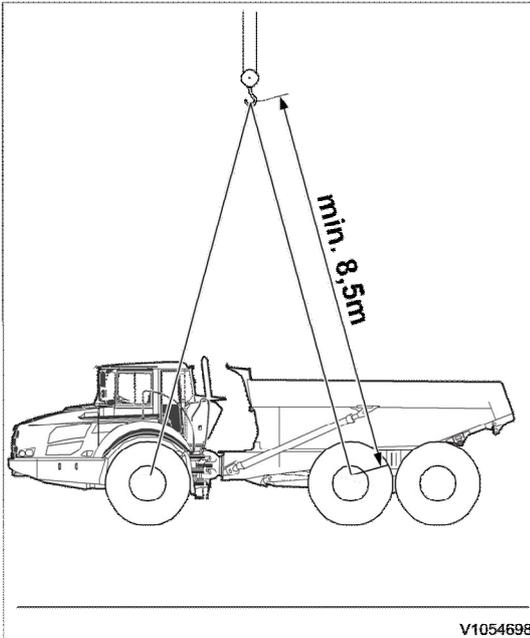


Figure 3

6. Lift the machine by the lifting eyes on the wheels.
7. Lower the machine.
8. Disconnect the steering joint lock before the machine is operated.
9. Remove the lifting tool and store the associated nuts on the cable.

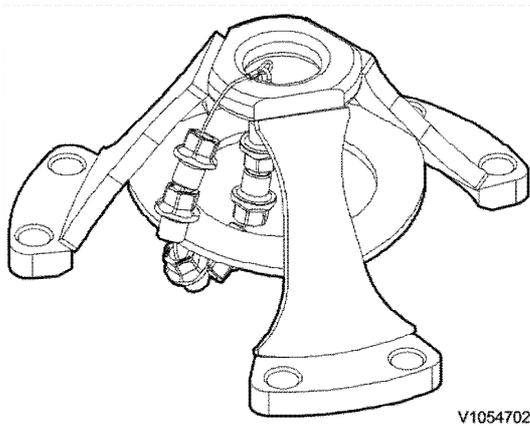


Figure 4
Storing the lifting tool

Document Title: Operation numbers for additional work	Function Group: 070	Information Type: Service Information	Date: 3/29/2025
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:
<https://www.aresairmanual.com/downloads/volvo-a35e-articulated-haulers-service-repair-manual/>