



Document Title: Volvo standard tightening torques	Function Group: 030	Information Type: Service Information	Date: 4/18/2026
Profile: L70H Volvo			

Volvo standard tightening torques

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L70H 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 ≈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	200	271	284	387
3/4	270	365	384	520
7/8	350	473	500	672
1	450	609	640	860
1 1/8	600	814	850	1130
1 1/4	750	1019	1060	1420
1 3/8	900	1224	1280	1720
1 1/2	1100	1488	1550	2090
1 3/4	1350	1836	1920	2600
2	1650	2244	2340	3170
2 1/4	2000	2712	2840	3840
2 3/4	2400	3240	3400	4580
3	2850	3870	4060	5480
3 1/2	3450	4650	4880	6600
4	4050	5430	5720	7720
4 1/2	4700	6360	6640	8960
5	5400	7290	7600	10320
5 1/2	6150	8325	8700	11800
6	6900	9360	9800	13300
6 1/2	7700	10440	10900	14800
7	8550	11520	12000	16400
7 1/2	9450	12660	13200	18000
8	10350	13800	14400	19600
8 1/2	11300	15000	15600	21200
9	12300	16200	16800	22800
9 1/2	13350	17460	18000	24400
10	14400	18720	19200	26000
10 1/2	15450	20040	20400	27600
11	16500	21360	21600	29200
11 1/2	17600	22740	22800	30800
12	18750	24180	24000	32400
12 1/2	19950	25680	25200	34000
13	21150	27240	26400	35600
13 1/2	22400	28860	27600	37200
14	23700	30540	28800	38800
14 1/2	25050	32280	30000	40400
15	26400	34080	31200	42000
15 1/2	27850	35940	32400	43600
16	29350	37860	33600	45200
16 1/2	30900	39840	34800	46800
17	32500	41880	36000	48400
17 1/2	34150	43980	37200	50000
18	35850	46140	38400	51600
18 1/2	37600	48360	39600	53200
19	39450	50640	40800	54800
19 1/2	41350	53080	42000	56400
20	43350	55680	43200	58000
20 1/2	45450	58440	44400	59600
21	47600	61360	45600	61200
21 1/2	49850	64440	46800	62800
22	52200	67680	48000	64400
22 1/2	54650	71080	49200	66000
23	57200	74640	50400	67600
23 1/2	59800	78360	51600	69200
24	62500	82260	52800	70800
24 1/2	65250	86340	54000	72400
25	68100	90600	55200	74000
25 1/2	71050	95040	56400	75600
26	74100	99660	57600	77200
26 1/2	77250	104460	58800	78800
27	80500	109440	60000	80400
27 1/2	83850	114600	61200	82000
28	87300	119940	62400	83600
28 1/2	90850	125460	63600	85200
29	94500	131160	64800	86800
29 1/2	98250	137040	66000	88400
30	102100	143100	67200	90000
30 1/2	106050	149340	68400	91600
31	110100	155760	69600	93200
31 1/2	114250	162360	70800	94800
32	118500	169140	72000	96400
32 1/2	122850	176100	73200	98000
33	127300	183240	74400	99600
33 1/2	131850	190560	75600	101200
34	136500	198060	76800	102800
34 1/2	141250	205740	78000	104400
35	146100	213600	79200	106000
35 1/2	151050	221640	80400	107600
36	156100	229860	81600	109200
36 1/2	161250	238260	82800	110800
37	166500	246840	84000	112400
37 1/2	171850	255600	85200	114000
38	177300	264540	86400	115600
38 1/2	182850	273660	87600	117200
39	188500	282960	88800	118800
39 1/2	194250	292440	90000	120400
40	200100	302100	91200	122000
40 1/2	206050	311940	92400	123600
41	212100	321960	93600	125200
41 1/2	218250	332160	94800	126800
42	224500	342540	96000	128400
42 1/2	230850	353100	97200	130000
43	237300	363840	98400	131600
43 1/2	243850	374760	99600	133200
44	250500	385860	100800	134800
44 1/2	257250	397140	102000	136400
45	264100	408600	103200	138000
45 1/2	271050	420240	104400	139600
46	278100	432060	105600	141200
46 1/2	285250	444060	106800	142800
47	292500	456240	108000	144400
47 1/2	299850	468600	109200	146000
48	307300	481140	110400	147600
48 1/2	314850	493860	111600	149200
49	322500	506760	112800	150800
49 1/2	330250	519840	114000	152400
50	338100	533100	115200	154000
50 1/2	346050	546540	116400	155600
51	354100	560160	117600	157200
51 1/2	362250	573960	118800	158800
52	370500	587940	120000	160400
52 1/2	378850	602100	121200	162000
53	387300	616440	122400	163600
53 1/2	395850	630960	123600	165200
54	404500	645660	124800	166800
54 1/2	413250	660540	126000	168400
55	422100	675600	127200	170000
55 1/2	431050	690840	128400	171600
56	440100	706260	129600	173200
56 1/2	449250	721860	130800	174800
57	458500	737640	132000	176400
57 1/2	467850	753600	133200	178000
58	477300	769740	134400	179600
58 1/2	486850	786060	135600	181200
59	496500	802560	136800	182800
59 1/2	506250	819240	138000	184400
60	516100	836100	139200	186000
60 1/2	526050	853140	140400	187600
61	536100	870360	141600	189200
61 1/2	546250	887760	142800	190800
62	556500	905340	144000	192400
62 1/2	566850	923100	145200	194000
63	577300	941040	146400	195600
63 1/2	587850	959160	147600	197200
64	598500	977460	148800	198800
64 1/2	609250	995940	150000	200400
65	620100	1014600	151200	202000
65 1/2	631050	1033440	152400	203600
66	642100	1052460	153600	205200
66 1/2	653250	1071660	154800	206800
67	664500	1091040	156000	208400
67 1/2	675850	1110600	157200	210000
68	687300	1130340	158400	211600
68 1/2	698850	1150260	159600	213200
69	710500	1170360	160800	214800
69 1/2	722250	1190640	162000	216400
70	734100	1211100	163200	218000
70 1/2	746050	1231740	164400	219600
71	758100	1252560	165600	221200
71 1/2	770250	1273560	166800	222800
72	782500	1294740	168000	224400
72 1/2	794850	1316080	169200	226000
73	807300	1337680	170400	227600
73 1/2	819850	1359440	171600	229200
74	832500	1381360	172800	230800
74 1/2	845250	1403460	174000	232400
75	858100	1425720	175200	234000
75 1/2	871050	1448140	176400	235600
76	884100	1470720	177600	237200
76 1/2	897250	1493460	178800	238800
77	910500	1516360	180000	240400
77 1/2	923850	1539420	181200	242000
78	937300	1562640	182400	243600
78 1/2	950850	1586020	183600	245200
79	964500	1609560	184800	246800
79 1/2	978250	1633260	186000	248400
80	992100	1657120	187200	250000
80 1/2	1006050	1681140	188400	251600
81	1020100	1705320	189600	253200
81 1/2	1034250	1729660	190800	254800
82	1048500	1754160	192000	256400
82 1/2	1062850	1778820	193200	258000
83	1077300	1803640	194400	259600
83 1/2	1091850	1828620	195600	261200
84	1106500	1853760	196800	262800
84 1/2	1121250	1879060	198000	264400
85	1136100	1904520	199200	266000
85 1/2	1151050	1930140	200400	267600
86	1166100	1955920	201600	269200
86 1/2	1181150	1981860	202800	270800
87	1196300	2007960	204000	272400
87 1/2	1211450	2034220	205200	274000
88	1226700	2060640	206400	275600
88 1/2	1242050	2087220	207600	277200
89	1257500	2113960	208800	278800

Product: L70H Volvo Wheel Loaders Service Manual

Full Download: <https://www.arepairmanual.com/downloads/l70h-volvo-wheel-loaders-service-manual/>

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

Sample manual. Download All 4799 pages at:

<https://www.arepairmanual.com/downloads/l70h-volvo-wheel-loaders-service-manual/>

Document Title: Conversion tables	Function Group: 030	Information Type: Service Information	Date: 4/18/2026
Profile: L70H Volvo			

Conversion tables

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L70H Volvo			

Length

Unit	cm	m	km	in	ft	yd	mile
cm	1	0.01	0.00001	0.3937	0.03281	0.01094	0.000006
m	100	1	0.001	39.37	3.2808	1.0936	0.00062
km	100000	1000	1	39370.7	3280.8	1093.6	0.62137
in	2.54	0.0254	0.000025	1	0.08333	0.02777	0.000015
ft	30.48	0.3048	0.000304	12	1	0.3333	0.000189
yd	91.44	0.9144	0.000914	36	3	1	0.000568
mile	160930	1609.3	1.6093	63360	5280	1760	1

1 mm = 0.1 cm - 1 mm = 0.001 m

Area

Unit	cm ²	m ²	km ²	a	ft ²	yd ²	in ²
cm ²	1	0.0001	-	0.000001	0.001076	0.000012	0.155000
m ²	10000	1	0.000001	0.01	10.764	1.1958	1550.000
km ²	-	1000000	1	10000	1076400	1195800	-
a	0.01	100	0.0001	1	1076.4	119.58	-
ft ²	-	0.092903	-	0.000929	1	0.1111	144.000
yd ²	-	0.83613	-	0.008361	9	1	1296.00
in ²	6.4516	0.000645	-	-	0.006943	0.000771	1

1 ha = 100 a - 1 mile² = 259 ha = 2.59 km²

Volume

Unit	cm ³ = cc	m ³	l	in ³	ft ³	yd ³
cm ³ = ml	1	0.000001	0.001	0.061024	0.000035	0.000001
m ³	1000000	1	1000	61024	35.315	1.30796
dm ³ (l)	1000	0.001	1	61.024	0.035315	0.001308
in ³	16.387	0.000016	0.01638	1	0.000578	0.000021
ft ³	28316.8	0.028317	28.317	1728	1	0.03704
yd ³	764529.8	0.76453	764.53	46656	27	1

1 gal (US) = 3785.41 cm³ = 231 in³ = 0.83267 gal (UK)

Weight

Unit	g	kg	t	oz	lb
g	1	0.001	0.000001	0.03527	0.0022
kg	1000	1	0.001	35.273	2.20459
t	1000000	1000	1	35273	2204.59
oz	28.3495	0.02835	0.000028	1	0.0625
lb	453.592	0.45359	0.000454	16	1

1 ton (metric) = 1.1023 ton (US) = 0.9842 ton (UK)

Pressure

Unit	kp/cm ²	bar	Pa=N/m ²	kPa	lbf/in ²	lbf/ft ²
kp/cm ²	1	0.98067	98066.5	98.0665	14.2233	2048.16
bar	1.01972	1	100000	100	14.5037	2088.6
Pa=N/m ²	0.00001	0.001	1	0.001	0.00015	0.02086
kPa	0.01020	0.01	1000	1	0.14504	20.886
lbf/in ²	0.07032	0.0689	6894.76	6.89476	1	144
lbf/ft ²	0.00047	0.00047	47.88028	0.04788	0.00694	1

kg/cm² = 735.56 Dry (mmHg) = 0.96784 atm

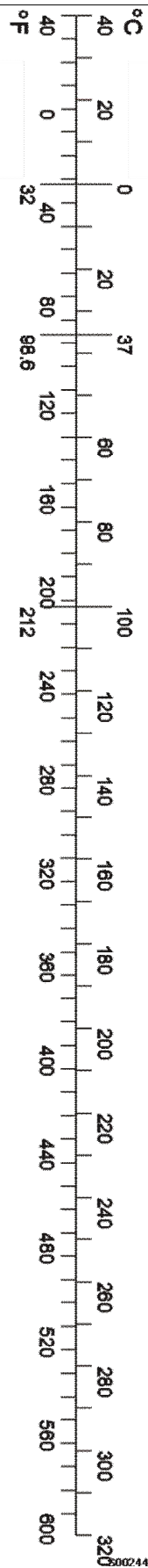
Unit explanations

Unit	abbreviation
Newton meter	Nm
Kilopoundmeter	kpm
Kilopascal	kPa
Megapascal	MPa
Kilowatt	kW
kilojoule	kJ
British thermal unit	Btu
Calorie	cal

Approx. conversion

SI unit	Conversion factor	Non SI	Conversion factor	SI
Torque				
Nm	x10.2	=kg/cm	x0.8664	=lb in
Nm	x0.74	=lbf-ft	x1.36	=Nm
Nm	x0.102	=kg/m	x7.22	=lbft
Pressure (Pa = N/m²)				
kPa	x4.0	=in.H ₂ O	x0.249	=kPa
kPa	x0.30	=in.Hg	x3.38	=kPa
kPa	x0.145	=psi	x6.89	=kPa
bar	x14.5	=psi	x0.069	=bar
kp/cm ²	x14.22	=psi	x0.070	=kp/cm ²
N/mm ²	x145.04	=psi	x0.069	=bar
MPa	x145	=psi	x0.00689	=MPa
Power (W = J/s)				
kW	x1.36	=hp(cv)	x0.736	=kW

kW	x1.34	= bhp	x0.746	= kW
kW	x0.948	= Btu/s	x1.055	= kW
W	x0.74	= ft-lb/s	x1.36	= W
Energy (J = Nm)				
kJ	x0.948	= Btu	x1.055	= kJ
J	x0.239	= calorie	x4.19	= J
Speed and acceleration				
m/s ²	x3.28	= ft/s ²	x0.305	= m/s ²
m/s	x3.28	= ft/s	x0.305	= m/s
km/h	x0.62	= mph	x1.61	= km/h
Horsepower/torque				
Bhp x5252 rpm = TQ (lb-ft)			TQ x rpm 5252 = bhp	
Temperature				
$^{\circ}\text{C} = (^{\circ}\text{F} - 32) / 1.8$			$^{\circ}\text{F} = (^{\circ}\text{C} \times 1.8) + 32$	
Flow factor				
l/min (dm ³ /min)	x0.264	= US gal/min	x3.785	= liter/min



Document Title: Torque wrench extension	Function Group: 030	Information Type: Service Information	Date: 4/18/2026
Profile: L70H Volvo			

Torque wrench extension

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L70H Volvo			

When an extension is used together with a torque wrench (e.g.88830381 Wrench), the torque applied to the screw increases since the lever arm is extended.

The following formula is used to calculate the correct torque wrench settings:

$$M1 = M2 \times (L1/L2)$$

M1 is the torque to be set on the torque wrench.

L1 is the normal length of the torque wrench.

M2 is the tightening torque according to specification.

L2 is the total length of the torque wrench and extension.

NOTE!

The extension and the torque wrench must be in a straight line for the calculation to be correct.

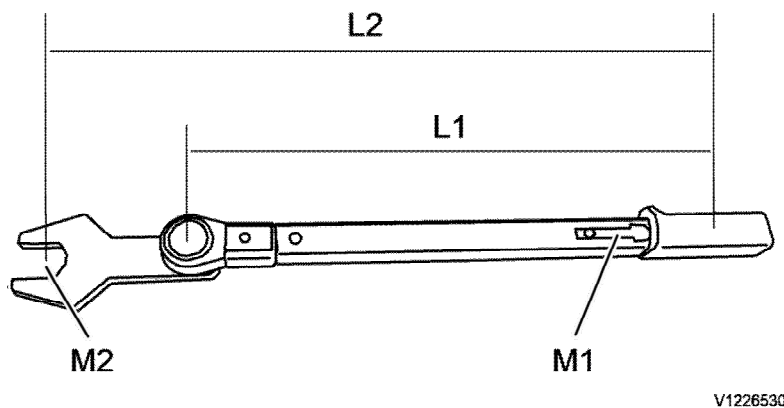


Figure 1

Calculation example

M1 is the torque to be set on the torque wrench.

M2 is the tightening torque according to specification, e.g. 100 Nm.

L1 is the measured length of the torque wrench, e.g. 45 cm.

L2 is the measured length of the extension and the torque wrench, e.g. 60 cm.

$$L1 = 45 \text{ cm}$$

$$L2 = 60 \text{ cm}$$

$$M2 = 100 \text{ Nm}$$

$$M1 = 100 \text{ Nm} \times (45 \text{ cm}/60 \text{ cm}) = 75 \text{ Nm}$$

Document Title: Operation numbers for additional work	Function Group: 070	Information Type: Service Information	Date: 4/18/2026
Profile: Wheel Loaders (WLO)			

Operation numbers for additional work

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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: E1706	Function Group: 080	Information Type: Service Information	Date: 4/18/2026
Profile: L70H Volvo			

E1706

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L70H Volvo			

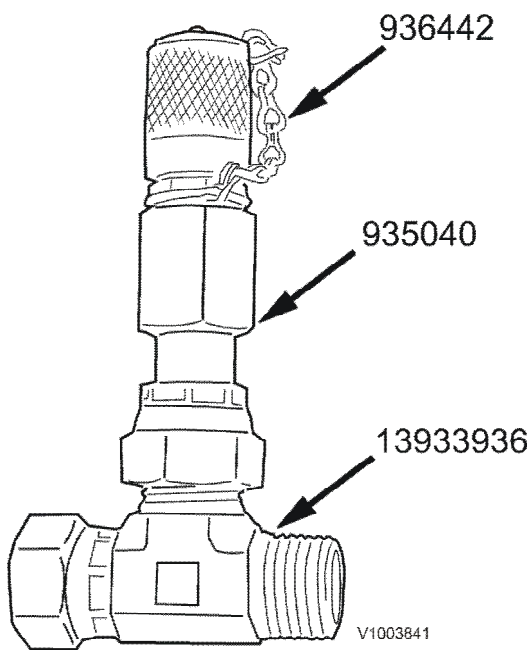


Figure 1

Document Title: E 1708, Checking point	Function Group: 080	Information Type: Service Information	Date: 4/18/2026
Profile: L70H Volvo			

E 1708, Checking point

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L70H Volvo			

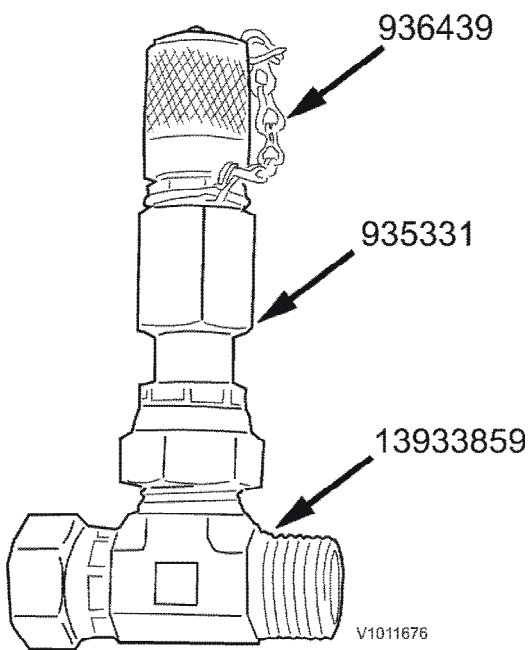


Figure 1

Document Title: E1711	Function Group: 080	Information Type: Service Information	Date: 4/18/2026
Profile: L70H Volvo			

E1711

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L70H Volvo			

E1711

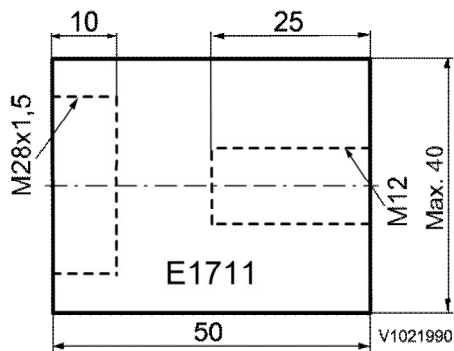


Figure 1

E1711

Document Title: E-2001	Function Group: 080	Information Type: Service Information	Date: 4/18/2026
Profile: L70H Volvo			

E-2001

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L70H Volvo			

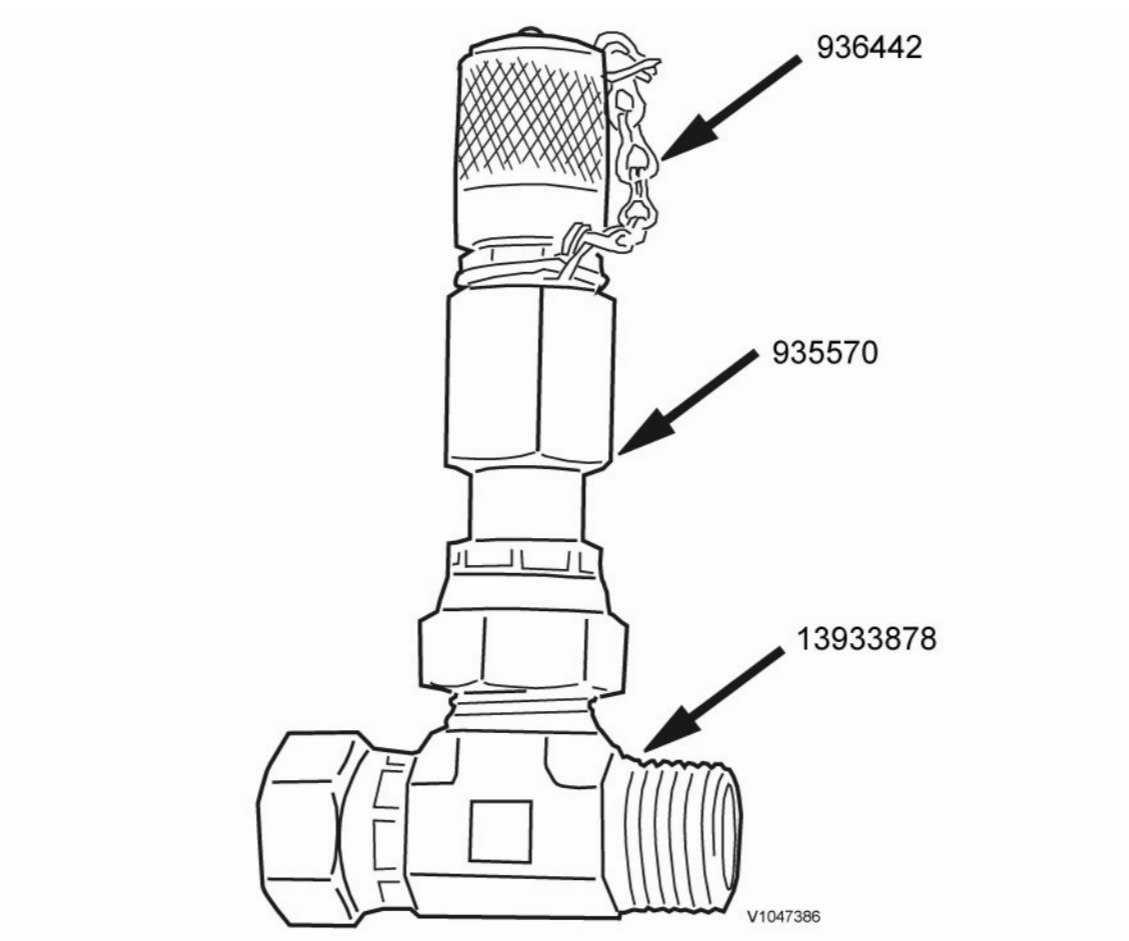


Figure 1

Document Title: E-2005	Function Group: 080	Information Type: Service Information	Date: 4/18/2026
Profile: L70H Volvo			

E-2005

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L70H Volvo			

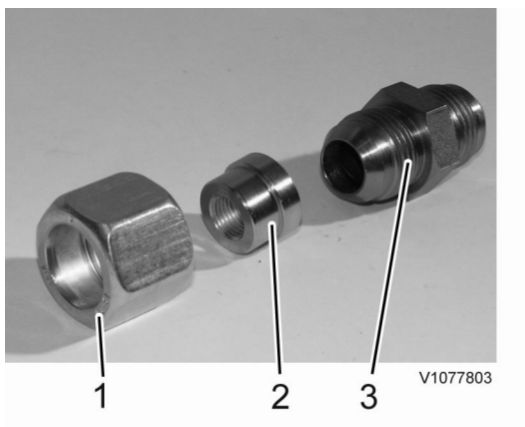


Figure 1

E-tool 2005

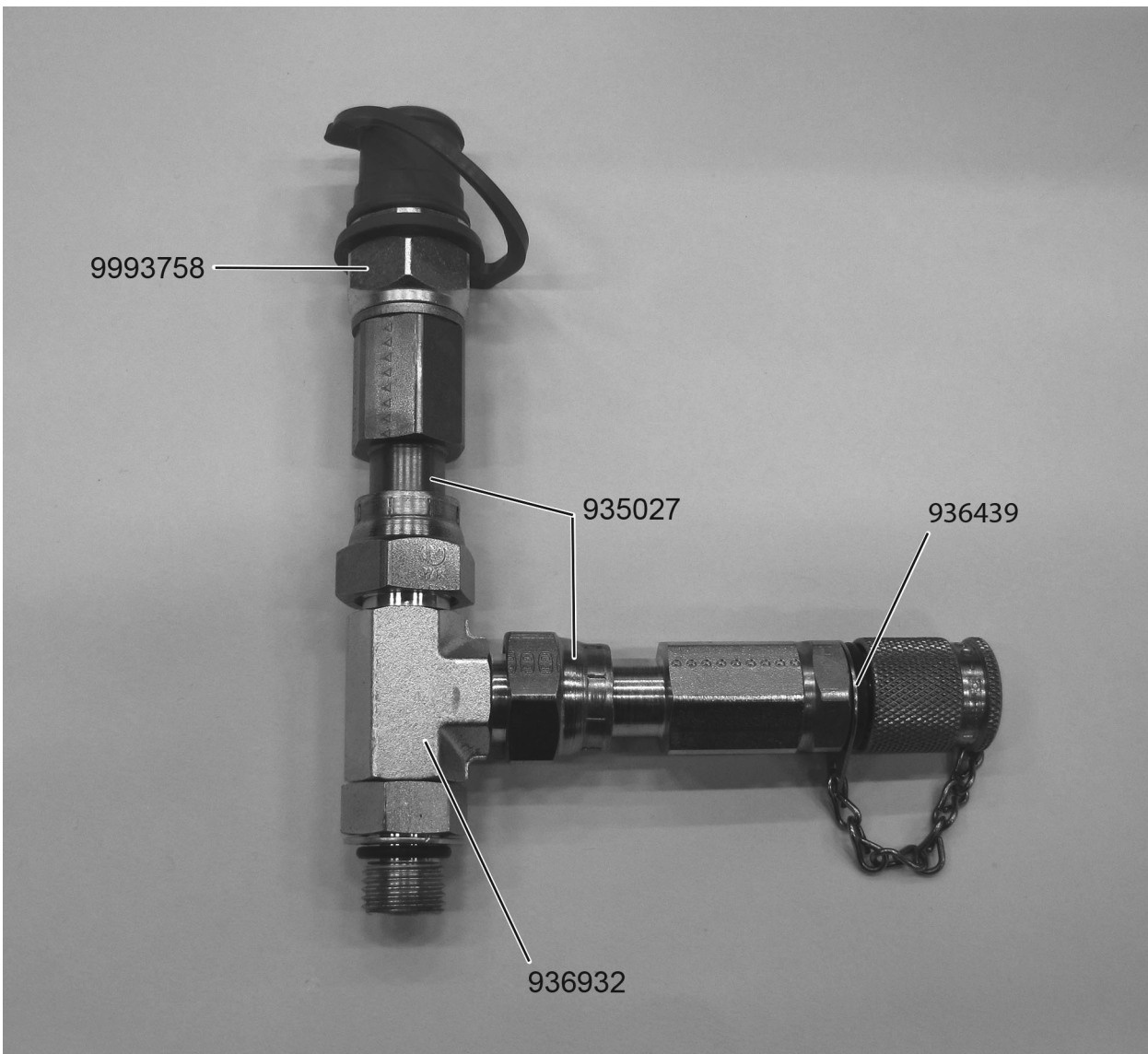
1. Coupling nut 931206
2. Test nipple 11054368 Thread R1/4"
3. Nipple 929315

Document Title: E-2014	Function Group: 080	Information Type: Service Information	Date: 4/18/2026
Profile: L70H Volvo			

E-2014

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L70H Volvo			



V1138633

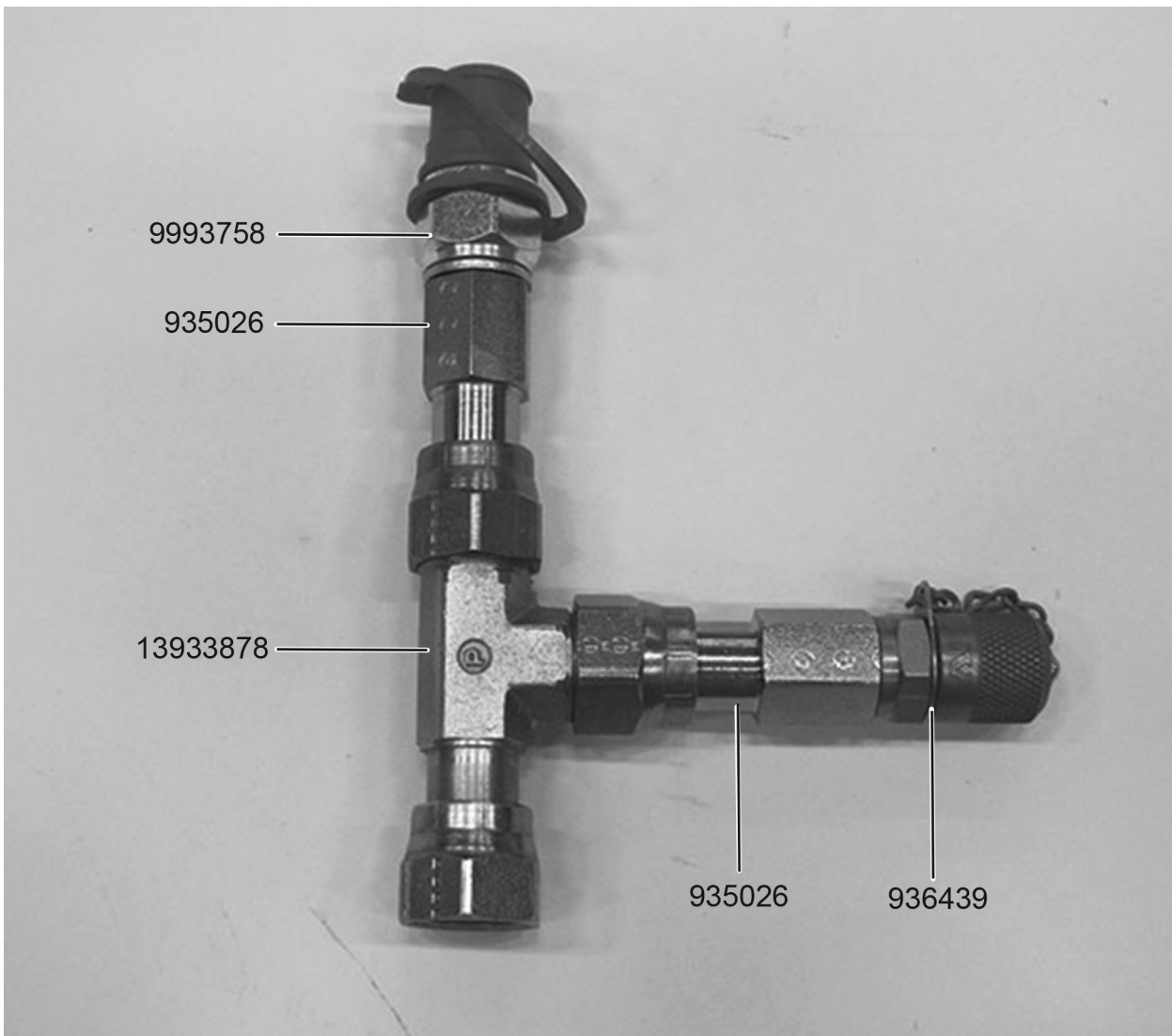
Figure 1

Document Title: E-2015	Function Group: 080	Information Type: Service Information	Date: 4/18/2026
Profile: L70H Volvo			

E-2015

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L70H Volvo			



V1138746

Figure 1

Document Title: E-2030	Function Group: 080	Information Type: Service Information	Date: 4/18/2026
Profile: L70H Volvo			

E-2030

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L70H Volvo			

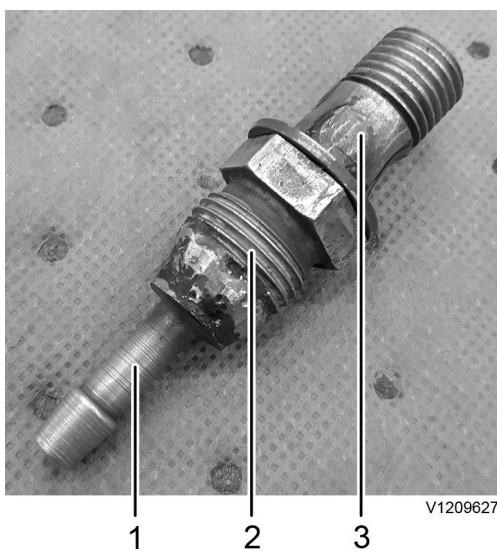


Figure 1

1. Hose nipple, diameter of approx. 8 mm
2. 21023622
3. Holes welded shut

Document Title: E-2032	Function Group: 080	Information Type: Service Information	Date: 4/18/2026
Profile: L70H Volvo			

E-2032

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L70H Volvo			



Figure 1

1. 995895
2. Washers (2 pcs)

Document Title: 9993807 Lifting tool user instructions	Function Group: 080	Information Type: Service Information	Date: 4/18/2026
Profile: L70H Volvo			

9993807 Lifting tool user instructions

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L70H Volvo			

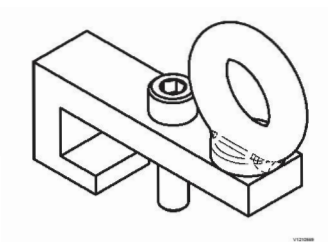


Figure 1

9993807 Lifting tool

Instructions

This instruction is a guide on how to use and maintain the lifting tool correctly. The instructions must be studied carefully by the personnel concerned before the lifting tool can be put into use.

The instructions must always be available to the personnel maintaining and using the lifting tool daily.

It is also important to:

- Keep the instructions and other applicable documents during the entire lifetime of the lifting tool.
- Pass the instructions to other owners or users of the lifting tool.
- Update the instructions with additions or changes made by the manufacturer.

Pay careful attention to information about warnings mentioned in the instructions and found on the warning signs on the lifting tools. If this information is not observed, severe personal injuries and equipment damage can arise.

Responsibility

The instructions describe the authorized method to use the lifting tool.

The lifting tool may only be used by personnel with adequate technical training or corresponding professional experience and in consultation with the manufacturer.

If the instructions have not been followed, the manufacturer is not responsible for personal injuries or damage to equipment.

Marking

Do not remove or make machine labels or other labels unreadable.

The lifting tool is marked with a CE mark, which means that it is designed, manufactured and described in accordance with EC Machinery Directive 2006/42/EC.

Warning decals and CE mark on lifting tool must be clearly visible. If a part provided with warning decals or CE mark is changed, a new warning decal and CE mark must be mounted in the same place. Defective decals and CE marks must be replaced immediately.



V1141218

Figure 2

CE-marking

Manufacturer

Company: Volvo Construction Equipment AB

Address: CE-46840, RLA 0301

Postal address: 631 85 Eskilstuna, Sweden

Rebuilding

If the lifting tool is rebuilt or supplemented with other parts without permission by the manufacturer, the CE marking does not include this part. If such rebuilding or added parts changes the function of the lifting tool, the CE marking in its entirety is no longer valid. After rebuilding, it is important that the instructions are supplemented with the necessary illustrations, photos and texts.

NOTE!

If not explicitly stated otherwise, always assume this instruction reference the use of two 9993807 Lifting tools.

Intended usage

The lifting toll specified in this document is only intended for lifting torque converters with a maximum weight of 100 kg. Intended users are appointed and trained personnel, the lifting gear is not intended to be used by unauthorised or underage personnel.

To fulfil the requirements for intended use, the user must follow all instructions and maintenance directions written by the manufacturer.

Technical data

Type designation: lifting tool for torque converter

Maximum load, lifting tool x 2: 100 kg (220 lb)

Mass, lifting tool x 2 with shackles and chain slings: 5 kg (11 lb)

Test factor for static testing (for lifting tools): 1.5

Safety information

Limits of use

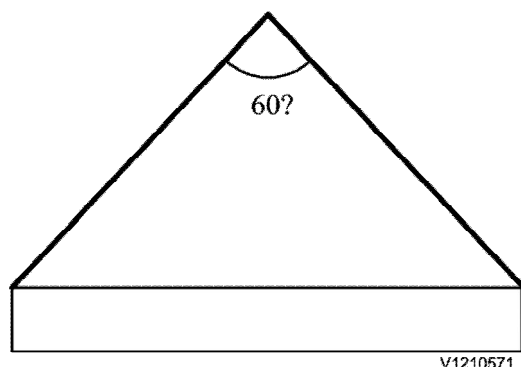
The lifting tools may only be used for the intended purpose. All other use is forbidden.

Lifting hooks must be equipped with a self-locking hook.

Shackles should be used for connecting the tools.

Lifting sling and straps should be marked with lifting capacity.

All accessories for the lift must have sufficient lifting capacity.



V1210571

Figure 3

Max lift-angle

Maximum lift angles must not exceed 60°.

Handling

To meet the requirements for intended use, the user must observe all user and maintenance instructions prescribed by the manufacturer.

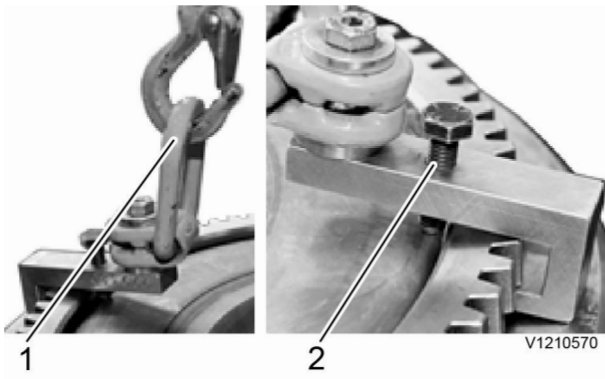


Figure 4

1. **Lifting equipment**
 Use lifting sling with sufficient lifting capacity, 100 kg (220 lb).
 Always use lifting hooks equipped with a self-locking hook.
 Use shackles with sufficient lifting capacity, 100 kg (220 lb).
2. **Bolts**
 Position the lifting tool under gear ring and tighten the bolts.
 Tighten until the lifting tool is unable to move independently of the gear ring.

Intended user

The lifting device is intended to be used by trained personnel, it is not intended to be used by unauthorized or underage personnel.

Conditions and preparatory measures

Lifting tool with damaged parts must not be used.

Before lifting, check that the lifting tool does not have indications of cracks or deformations.

Maintenance

Maintenance must be performed by person with appropriate technical training or equivalent professional experience and in consultation with the manufacturer.

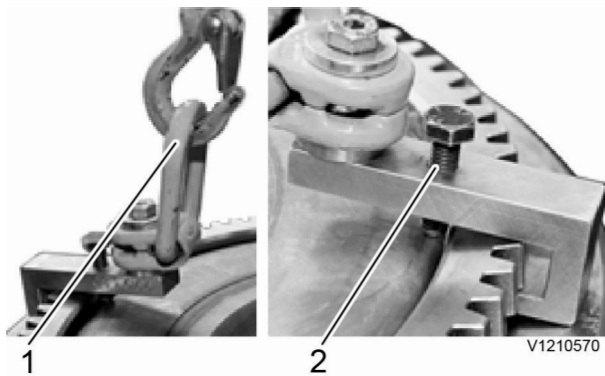


Figure 5

Detail/interval	Control/oversight
1 Shackles. Annual check.	Check that shackles does no have visible defects, cracks or deformations.
2 9993807 Lifting tool. Annual check.	Check that the lifting tool with threads and bolt does no have visible defects, cracks or deformations.

General

A defective lifting tool must be replaced.

Workplace

Protective shoes must be used.

The workplace should be kept free from equipment that can cause slipping or tripping risks.

The lifting tool is intended to be used in a workshop environment, outdoor usage is forbidden.

Continuous supervision

The lifting tool must be subjected to continuous supervision before use.

- Check for cracks.
- Check if the lifting tool is bent or deformed.
- Check that threaded screws and bolts are intact and do not have indications of breakage or deformation.

Document Title: 11668007 Lifting tool user instructions	Function Group: 080	Information Type: Service Information	Date: 4/18/2026
Profile: L70H Volvo			

11668007 Lifting tool user instructions

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L70H Volvo			



V1210648

Figure 1
11668007 lifting tool

Instructions

This instruction is a guide on how to use and maintain the lifting tool correctly. The instructions must be studied carefully by the personnel concerned before the lifting tool can be put into use.

The instructions must always be available to the personnel maintaining and using the lifting tool daily.

It is also important to:

- Keep the instructions and other applicable documents during the entire lifetime of the lifting tool.
- Pass the instructions to other owners or users of the lifting tool.
- Update the instructions with additions or changes made by the manufacturer.

Pay careful attention to information about warnings mentioned in the instructions and found on the warning signs on the lifting tools. If this information is not observed, severe personal injuries and equipment damage can arise.

Responsibility

The instructions describe the authorized method to use the lifting tool.

The lifting tool may only be used by personnel with adequate technical training or corresponding professional experience and in consultation with the manufacturer.

If the instructions have not been followed, the manufacturer is not responsible for personal injuries or damage to

equipment.

Marking

Do not remove or make machine labels or other labels unreadable.

The lifting tool is marked with a CE mark, which means that it is designed, manufactured and described in accordance with EC Machinery Directive 2006/42/EC.

Warning decals and CE mark on lifting tool must be clearly visible. If a part provided with warning decals or CE mark is changed, a new warning decal and CE mark must be mounted in the same place. Defective decals and CE marks must be replaced immediately.

Manufacturer

Company: BM Lindahl AB

Address: Älmedal 6

Postal address: 364 33 Åseda, Sweden

Rebuilding

If the lifting tool is rebuilt or supplemented with other parts without permission by the manufacturer, the CE marking does not include this part. If such rebuilding or added parts changes the function of the lifting tool, the CE marking in its entirety is no longer valid. After rebuilding, it is important that the instructions are supplemented with the necessary illustrations, photos and texts.

Intended usage

11668007 Lifting tool consists of stand, lifting jack, extensions and locking pins.

Intended users are appointed and trained personnel, the lifting tool is not intended to be used by unauthorized or underage personnel.

To fulfil the requirements for intended use, the user must follow all instructions and maintenance directions written by the manufacturer.

The lifting tool is only intended for lifting Volvo Wheel Loaders and Volvo Articulated Haulers. Maximum load: 15 000 kg (33 070 lb).

Technical data

Type designation: lifting tool

Maximum load: 15 000 kg (33 070 lb), with two 11668007 lifting tools: 30 000 kg (66 140 lbs)

Mass: 78 kg (172 lb)

Test factor for static testing: For lifting tools and manually operated machines: 1.5. For other machines: 1.25

Height: 500–800 mm (19.7–31.5 in), with extensions: 600–900 mm (23.6–35.4 in)

Safety information

Limits of use

The lifting tools may only be used for the intended purpose. All other use is forbidden.

For Volvo Wheel Loaders, the lifting tool is only intended to lift the rear axle.



V1071600

Always secured loads with safety pins. To stay under raised load without locking pins, is associated with life danger.



V1071600

To prevent breakage and sliding, the lifting tool must always be used with a vertical load.

To prevent oblique loads, always use two 11668007 lifting tools.

Handling

To meet the requirements for intended use, the user must observe all user and maintenance instructions prescribed by the manufacturer.

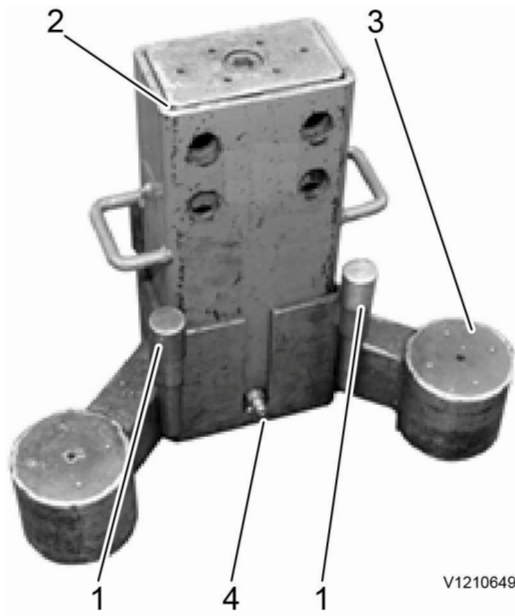


Figure 2

Pre use check

1. **Safety pins**
Make sure that safety pins are supplied along with the lifting tool.
Check that the safety pins are intact and do not have indications of breakage or deformation.
2. **Inner and outer lifting beam**
Check that the beam with pin holes is intact and do not have indications of breakage or deformation.
3. **Support legs**
The lifting tool has three support legs.
Check that the stand is intact and does not have indications of breakage or deformation.
4. **Connection nipple**
Connection nipple for pneumatic pump.

Pneumatic pump

Check that pneumatic pump with hose kit and couplings does not have indications of breakage or deformation. Always replace defective units.

Intended user

The lifting device is intended to be use by trained personnel, it is not intended to be used by unauthorized or underage personnel.

Conditions and preparatory measures

Lifting tool with damaged parts must not be used.



V1071600

Make sure that there are no people in the vicinity who may be at risk when operating this lifting tool.

Lifting



V1071600

Never stay under raised load with the safety pins disconnected.

1. **Steering linkage lock**
Lock steering linkage with steering linkage lock.
If an articulated hauler is being lifted, place body support.
Connect stops.
2. **Assemble**
Place the lifting jack into the stand.
Make sure the nipple fits in the groove.
3. **Place the lifting tool**

Place the lifting tool under wheel axle lifting point.

If needed, connect extensions.

Connect pneumatic pump to the respective nipple on the lifting tools.

To ensure a parallel lift, lower the lifting tools to their lower end point.

Start the pneumatic pump (pumps) and lift to the desired level.

4. **Safety pins**

Connect all safety pins. Make sure that all safety pins are fully inserted.

Lower until the load rests on the safety pins.



Figure 3

Lowering

1. **Steering linkage lock**

Remove steering linkage lock.

Remove stops.

2. **Remove safety pins**

Lift the load with the lifting tools to release the safety pins.

Remove all safety pins and place the safety pins at their designed holders on the lifting tools.

3. **Lower the load**

Lower the load.

Lower the lifting tools to their lower end point.

Make sure that the lifting tools are lowered parallel to avoid uneven weight distribution.

4. **Remove pump and lifting tool**

Disconnect the pneumatic pump (pumps) from the nipples on the lifting tools.

Remove the lifting tool and place it at the designated location.

Maintenance

Maintenance must be performed by person with appropriate technical training or equivalent professional experience and in consultation with the manufacturer.

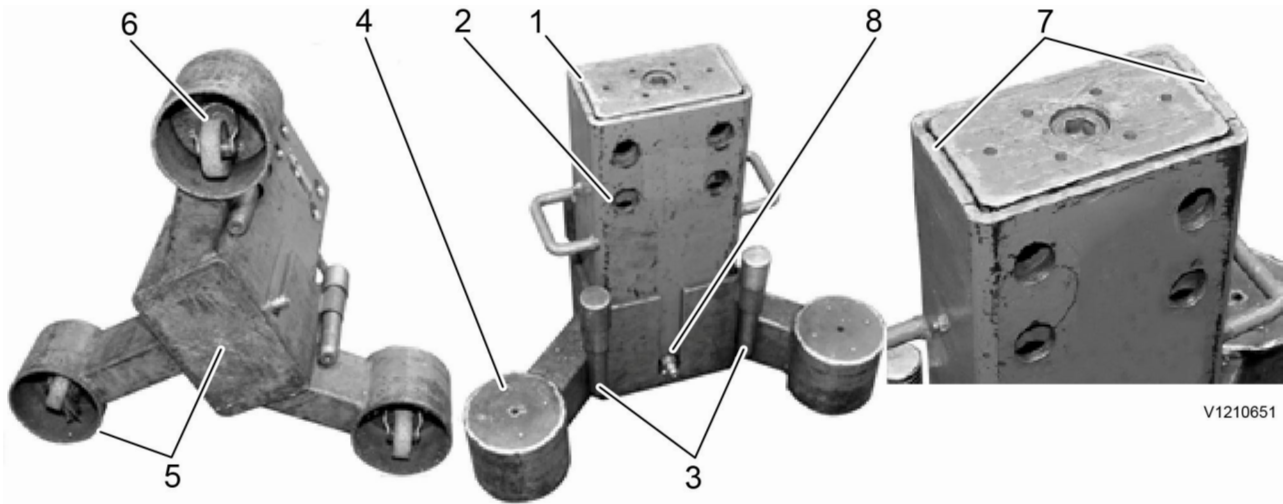


Figure 4

Detail/interval	Control/oversight
1. Inner and outer beam Before use.	Check that beams are intact and does not have indications of breakage or deformation.
2. Pin holes, inner and outer beam Before use.	Check that all holes in beams are intact and does not have indications of breakage or deformation.
3. Pins Before use.	Check that all pins are intact and does not have indications of breakage or deformation. Before lifting, make sure that no pins are missing.
4. Support legs Before use.	Check that the support legs are intact and does not have indications of breakage or deformation.
5. Supporting surfaces Monthly check.	Check that all supporting areas are intact and does not have indications of breakage or deformation.
6. Castor As needed.	Replaced as needed.
7. Friction plate Annual check or as needed.	Lift the inner beam to its upper end point. Grease the friction plates and lower the beam to its lower end point to disperse the grease.
8. Quick coupling Before use.	Check that the quick coupling is clean. Clean dirty quick coupling with cloth. Protect quick coupling with plastic cover.

General

A defective lifting tool must be replaced.

Workplace

Protective shoes must be used.

The workplace should be kept free from equipment that can cause slipping or tripping risks.

The lifting tool is intended to be used in a workshop environment, outdoor usage is forbidden.

The lifting tool is intended to be used on a level and stable surface.

Leaked or spilled hydraulic oil should be taken care of immediately with an absorbent to prevent slipping. The supplier/ manufacturers product sheet regarding safe handling of hydraulic oil must be followed.

Continuous supervision

The lifting tool must be subjected to continuous supervision before use.

- Check for cracks.
- Check if the lifting tool is bent or deformed.
- Make sure that quick couplings are clean.

Document Title: 11668008 Lifting tool user instructions	Function Group: 080	Information Type: Service Information	Date: 4/18/2026
Profile: L70H Volvo			

11668008 Lifting tool user instructions

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L70H Volvo			



V1210596

Figure 1

11668008 lifting tool

Instructions

This instruction is a guide on how to use and maintain the lifting tool correctly. The instructions must be studied carefully by the personnel concerned before the lifting tool can be put into use.

The instructions must always be available to the personnel maintaining and using the lifting tool daily.

It is also important to:

- Keep the instructions and other applicable documents during the entire lifetime of the lifting tool.
- Pass the instructions to other owners or users of the lifting tool.
- Update the instructions with additions or changes made by the manufacturer.

Pay careful attention to information about warnings mentioned in the instructions and found on the warning signs on the lifting tools. If this information is not observed, severe personal injuries and equipment damage can arise.

Responsibility

The instructions describe the authorized method to use the lifting tool.

The lifting tool may only be used by personnel with adequate technical training or corresponding professional experience and in consultation with the manufacturer.

If the instructions have not been followed, the manufacturer is not responsible for personal injuries or damage to equipment.

Marking

Do not remove or make machine labels or other labels unreadable.

The lifting tool is marked with a CE mark, which means that it is designed, manufactured and described in accordance with EC Machinery Directive 2006/42/EC.

Warning decals and CE mark on lifting tool must be clearly visible. If a part provided with warning decals or CE mark is changed, a new warning decal and CE mark must be mounted in the same place. Defective decals and CE marks must be

replaced immediately.



V1141218

Figure 2

CE-marking

Manufacturer

Company: BM Lindahl AB

Address: Ålmedal 6

Postal address: 364 33 Åseda, Sweden

Rebuilding

If the lifting tool is rebuilt or supplemented with other parts without permission by the manufacturer, the CE marking does not include this part. If such rebuilding or added parts changes the function of the lifting tool, the CE marking in its entirety is no longer valid. After rebuilding, it is important that the instructions are supplemented with the necessary illustrations, photos and texts.

Intended usage

11668008 lifting tool consists of stand, lifting jack, extensions and locking pins.

Intended users are appointed and trained personnel, the lifting tool is not intended to be used by unauthorized or underage personnel.

To fulfil the requirements for intended use, the user must follow all instructions and maintenance directions written by the manufacturer.

Technical data

Type designation: lifting tool

Maximum load: 30 000 kg (66 140 lb)

Mass: 117 kg (257.9 lb)

Test factor for static testing: For lifting tools and manually operated machines: 1.5. For other machines: 1.25

Height: 500–800 mm (19.7–31.5 in), with extensions: 600–900 mm (23.6–35.4 in)

Safety information

Limits of use

The lifting tools may only be used for the intended purpose. All other use is forbidden.

The lifting tool is only intended for lifting Volvo Wheel Loaders and Volvo Articulated Haulers. Maximum load: 30 000 kg (66 140 lb).

For Volvo Wheel Loaders, the lifting tool is only intended to lift the rear axle.



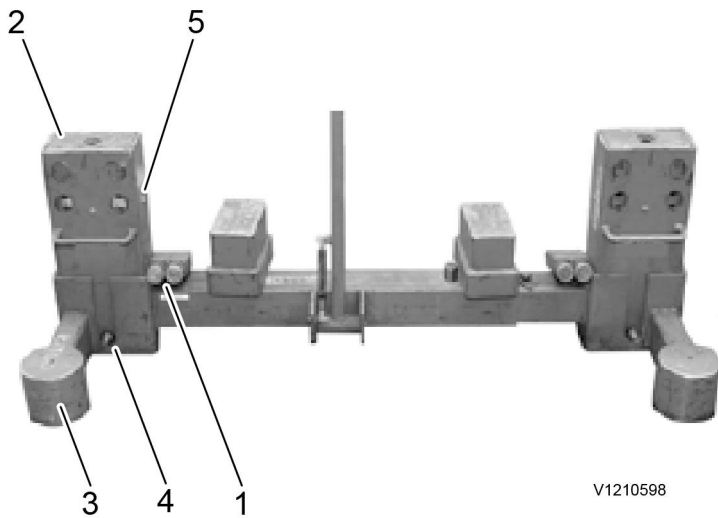
V1071600 Always secured loads with safety pins. To stay under raised load without locking pins, is associated with life danger.



V1071600 Make sure that there are no people in the vicinity who may be at risk when operating this lifting tool.

Handling

To meet the requirements for intended use, the user must observe all user and maintenance instructions prescribed by the manufacturer.



V1210598

Figure 3

Pre use check

1. **Safety pins**
Make sure that safety pins are supplied along with the lifting tool.
Check that safety pins are intact and do not have indications of breakage or deformation.
2. **Inner and outer lifting beam**
Check that the beams with pin holes are intact and do not have indications of breakage or deformation.
3. **Support legs**
The lifting tool with double stand has four support legs.
Check that the stand is intact and does not have indications of breakage or deformation.
4. **Connection nipple**
Connection nipple for pneumatic pump.
5. **Mounting point**
Mounting point for friction plate, 4 per unit.

Pneumatic pump

Check that pneumatic pump with hose kit and couplings does not have indications of breakage or deformation. Always replace defective units.

Adjust width

Adjust the lifting tool to fit the axle lifting points.

Intended user

The lifting device is intended to be used by trained personnel, it is not intended to be used by unauthorized or underage personnel.

Conditions and preparatory measures

Lifting tool with damaged parts must not be used.

Lifting



V1071600 Never stay under a raised load with the safety pins disconnected.

1. **Steering linkage lock**
Lock steering linkage with steering linkage lock.
If an articulated hauler is being lifted, place body support.
Connect stops.
2. **Place the lifting tool**
Place the lifting tool under wheel axle lifting points.
If needed, connect extensions.
Connect pneumatic pump to the respective nipple on the lifting tool.
To ensure a parallel lift, lower the lifting tool to its lower end point.
Start the pneumatic pump and lift to the desired level.

3. **Safety pins**

Connect all safety pins. Make sure that all safety pins are fully inserted.
Lower until the load rests on the safety pins.

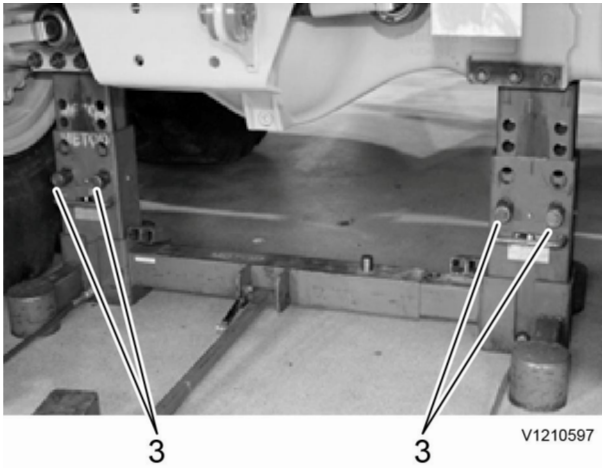


Figure 4

Lowering

1. **Steering linkage lock**
Remove steering linkage lock.
Remove stops.
2. **Remove safety pins**
Lift the load with the lifting tool to release the safety pins.
Remove all safety pins and place the safety pins at their designed holders on the lifting tool.
3. **Lower the load**
Lower the load.
Lower the lifting tool to its lower end point.
Make sure that the lifting tool is lowered parallel to avoid uneven weight distribution.
4. **Remove pump and lifting tool**
Disconnect the pneumatic pump from the nipples on the lifting tool.
Remove the lifting tool and place it at the designated location.

Maintenance

Maintenance must be performed by person with appropriate technical training or equivalent professional experience and in consultation with the manufacturer.