



Document Title: Volvo standard tightening torques	Function Group: 030	Information Type: Service Information	Date: 4/17/2026
Profile: L60H Volvo			

Volvo standard tightening torques

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L60H 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	200	271	284	387
3/4	270	365	384	520
7/8	350	474	500	673
1	430	581	600	813
1 1/8	510	688	720	970
1 1/4	600	816	840	1130
1 3/8	700	947	980	1330
1 1/2	810	1093	1140	1540
1 5/8	930	1256	1300	1760
1 3/4	1060	1437	1480	2000
1 7/8	1200	1637	1680	2260
2	1360	1857	1920	2560
2 1/8	1530	2077	2160	2880
2 1/4	1710	2307	2400	3240
2 3/8	1910	2587	2640	3560
2 1/2	2130	2887	2880	3920
2 5/8	2370	3227	3120	4240
2 3/4	2630	3567	3360	4560
2 7/8	2910	3947	3600	4920
3	3210	4327	3840	5200
3 1/8	3530	4747	4080	5520
3 1/4	3870	5207	4320	5840
3 3/8	4230	5687	4560	6200
3 1/2	4610	6187	4800	6520
3 5/8	5010	6707	5040	6880
3 3/4	5430	7247	5280	7200
3 7/8	5870	7807	5520	7520
4	6330	8387	5760	7840
4 1/8	6810	9087	6000	8200
4 1/4	7310	9807	6240	8520
4 3/8	7830	10547	6480	8880
4 1/2	8370	11307	6720	9240
4 5/8	8930	12087	6960	9600
4 3/4	9510	12887	7200	9960
4 7/8	10110	13707	7440	10320
5	10730	14547	7680	10680
5 1/8	11370	15407	7920	11040
5 1/4	12030	16287	8160	11400
5 3/8	12710	17187	8400	11760
5 1/2	13410	18107	8640	12120
5 5/8	14130	19047	8880	12480
5 3/4	14870	19997	9120	12840
5 7/8	15630	20967	9360	13200
6	16410	21957	9600	13560
6 1/8	17210	22967	9840	13920
6 1/4	18030	23997	10080	14280
6 3/8	18870	25047	10320	14640
6 1/2	19730	26117	10560	15000
6 5/8	20610	27207	10800	15360
6 3/4	21510	28317	11040	15720
6 7/8	22430	29447	11280	16080
7	23370	30597	11520	16440
7 1/8	24330	31767	11760	16800
7 1/4	25310	32957	12000	17160
7 3/8	26310	34167	12240	17520
7 1/2	27330	35397	12480	17880
7 5/8	28370	36647	12720	18240
7 3/4	29430	37917	12960	18600
7 7/8	30510	39207	13200	18960
8	31610	40517	13440	19320
8 1/8	32730	41847	13680	19680
8 1/4	33870	43197	13920	20040
8 3/8	35030	44567	14160	20400
8 1/2	36210	45957	14400	20760
8 5/8	37410	47367	14640	21120
8 3/4	38630	48797	14880	21480
8 7/8	39870	50247	15120	21840
9	41130	51717	15360	22200
9 1/8	42410	53207	15600	22560
9 1/4	43710	54717	15840	22920
9 3/8	45030	56247	16080	23280
9 1/2	46370	57797	16320	23640
9 5/8	47730	59367	16560	24000
9 3/4	49110	60957	16800	24360
9 7/8	50510	62567	17040	24720
10	51930	64197	17280	25080
10 1/8	53370	65847	17520	25440
10 1/4	54830	67517	17760	25800
10 3/8	56310	69207	18000	26160
10 1/2	57810	70917	18240	26520
10 5/8	59330	72647	18480	26880
10 3/4	60870	74397	18720	27240
10 7/8	62430	76167	18960	27600
11	64010	77957	19200	27960
11 1/8	65610	79767	19440	28320
11 1/4	67230	81597	19680	28680
11 3/8	68870	83447	19920	29040
11 1/2	70530	85317	20160	29400
11 5/8	72210	87207	20400	29760
11 3/4	73910	89117	20640	30120
11 7/8	75630	91047	20880	30480
12	77370	93097	21120	30840
12 1/8	79130	95167	21360	31200
12 1/4	80910	97257	21600	31560
12 3/8	82710	99367	21840	31920
12 1/2	84530	101497	22080	32280
12 5/8	86370	103647	22320	32640
12 3/4	88230	105817	22560	33000
12 7/8	90110	108007	22800	33360
13	92010	110217	23040	33720
13 1/8	93930	112447	23280	34080
13 1/4	95870	114697	23520	34440
13 3/8	97830	116967	23760	34800
13 1/2	99810	119257	24000	35160
13 5/8	101810	121567	24240	35520
13 3/4	103830	123897	24480	35880
13 7/8	105870	126247	24720	36240
14	107930	128617	24960	36600
14 1/8	109910	131007	25200	36960
14 1/4	111910	133417	25440	37320
14 3/8	113930	135847	25680	37680
14 1/2	115970	138297	25920	38040
14 5/8	118030	140767	26160	38400
14 3/4	120110	143257	26400	38760
14 7/8	122210	145767	26640	39120
15	124330	148297	26880	39480
15 1/8	126470	150847	27120	39840
15 1/4	128630	153417	27360	40200
15 3/8	130810	156007	27600	40560
15 1/2	133010	158617	27840	40920
15 5/8	135230	161247	28080	41280
15 3/4	137470	163897	28320	41640
15 7/8	139730	166567	28560	42000
16	142010	169257	28800	42360
16 1/8	144310	171967	29040	42720
16 1/4	146630	174697	29280	43080
16 3/8	148970	177447	29520	43440
16 1/2	151330	180217	29760	43800
16 5/8	153710	183007	30000	44160
16 3/4	156110	185817	30240	44520
16 7/8	158530	188647	30480	44880
17	160970	191497	30720	45240
17 1/8	163430	194367	30960	45600
17 1/4	165910	197257	31200	45960
17 3/8	168410	200167	31440	46320
17 1/2	170930	203097	31680	46680
17 5/8	173470	206047	31920	47040
17 3/4	176030	209017	32160	47400
17 7/8	178610	212007	32400	47760
18	181210	215017	32640	48120
18 1/8	183830	218047	32880	48480
18 1/4	186470	221097	33120	48840
18 3/8	189130	224167	33360	49200
18 1/2	191810	227257	33600	49560
18 5/8	194510	230367	33840	49920
18 3/4	197230	233497	34080	50280
18 7/8	199970	236647	34320	50640
19	202730	239817	34560	51000
19 1/8	205510	242997	34800	51360
19 1/4	208310	246197	35040	51720
19 3/8	211130	249417	35280	52080
19 1/2	213970	252657	35520	52440
19 5/8	216830	255917	35760	52800
19 3/4	219710	259197	36000	53160
19 7/8	222610	262497	36240	53520
20	225530	265817	36480	53880
20 1/8	228470	269157	36720	54240
20 1/4	231430	272517	36960	54600
20 3/8	234410	275897	37200	54960
20 1/2	237410	279297	37440	55320
20 5/8	240430	282717	37680	55680
20 3/4	243470	286157	37920	56040
20 7/8	246530	289617	38160	56400
21	249610	293097	38400	56760
21 1/8	252710	296597	38640	57120
21 1/4	255830	300117	38880	57480
21 3/8	258970	303657	39120	57840
21 1/2	262130	307217	39360	58200
21 5/8	265310	310797	39600	58560
21 3/4	268510	314397	39840	58920
21 7/8	271730	318017	40080	59280
22	274970	321657	40320	59640
22 1/8	278230	325317	40560	60000
22 1/4	281510	328997	40800	60360
22 3/8	284810	332697	41040	60720
22 1/2	288130	336417	41280	61080
22 5/8	291470	340157	41520	61440
22 3/4	294830	343917	41760	61800
22 7/8	298210	347697	42000	62160
23	301610	351497	42240	62520
23 1/8	305030	355317	42480	62880
23 1/4	308470	359157	42720	63240
23 3/8	311930	363017	42960	63600
23 1/2	315410	366897	43200	63960
23 5/8	318910	370797	43440	64320
23 3/4	322430	374717	43680	64680
23 7/8	325970	378657	43920	65040
24	329530	382617	44160	65400
24 1/8	333110			

Product: L60H Volvo Wheel Loaders Service Manual

Full Download: <https://www.arepairmanual.com/downloads/l60h-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 4776 pages at:

<https://www.arepairmanual.com/downloads/l60h-volvo-wheel-loaders-service-manual/>

Document Title: Conversion tables	Function Group: 030	Information Type: Service Information	Date: 4/17/2026
Profile: L60H Volvo			

Conversion tables

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L60H 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

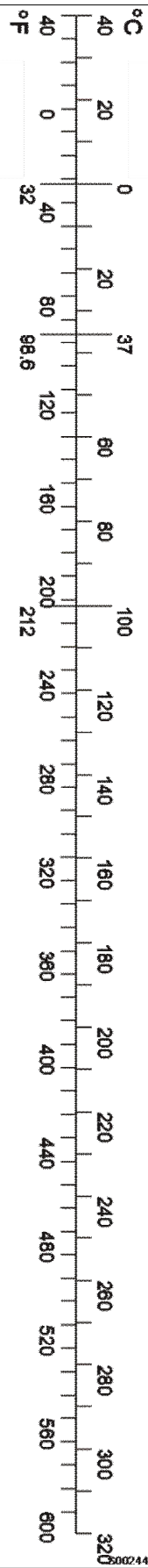
Unit explanations

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: 4/17/2026
Profile: L60H Volvo			

Torque wrench extension

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L60H 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.

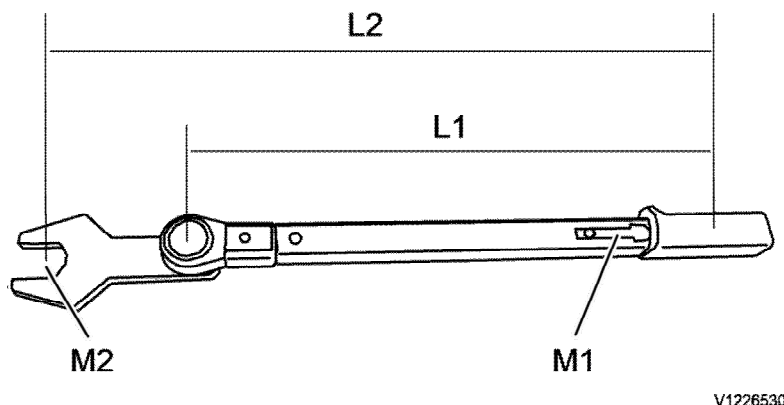


Figure 1

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: 4/17/2026
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: 4/17/2026
Profile: L60H Volvo			

E1706

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L60H Volvo			

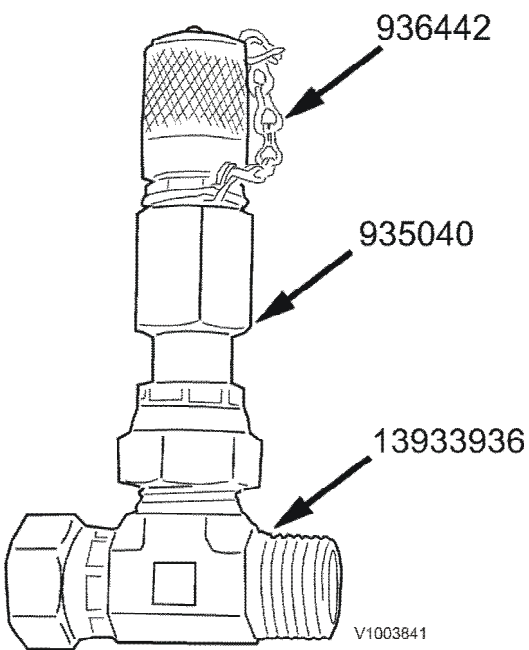


Figure 1

Document Title: E 1708, Checking point	Function Group: 080	Information Type: Service Information	Date: 4/17/2026
Profile: L60H Volvo			

E 1708, Checking point

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L60H Volvo			

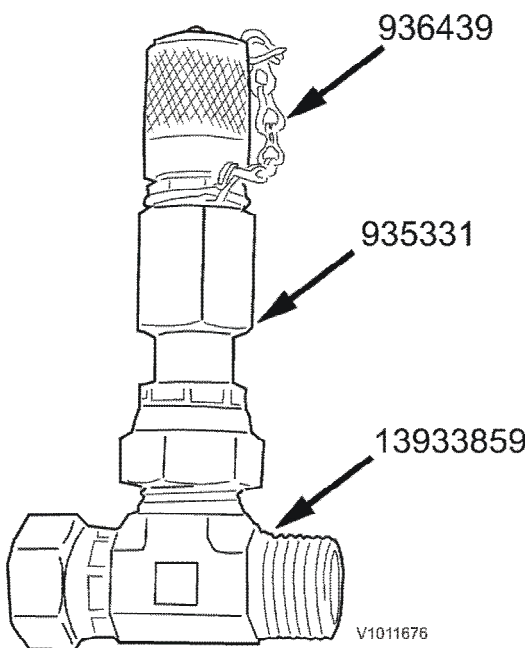


Figure 1

Document Title: E1711	Function Group: 080	Information Type: Service Information	Date: 4/17/2026
Profile: L60H Volvo			

E1711

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L60H Volvo			

E1711

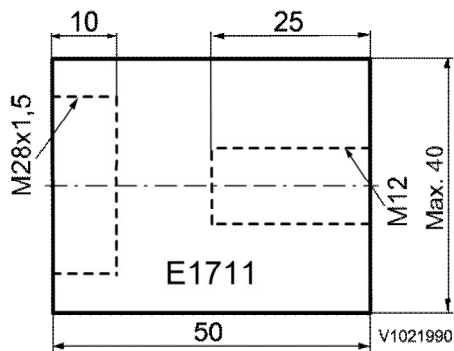


Figure 1

E1711

Document Title: E-2001	Function Group: 080	Information Type: Service Information	Date: 4/17/2026
Profile: L60H Volvo			

E-2001

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L60H Volvo			

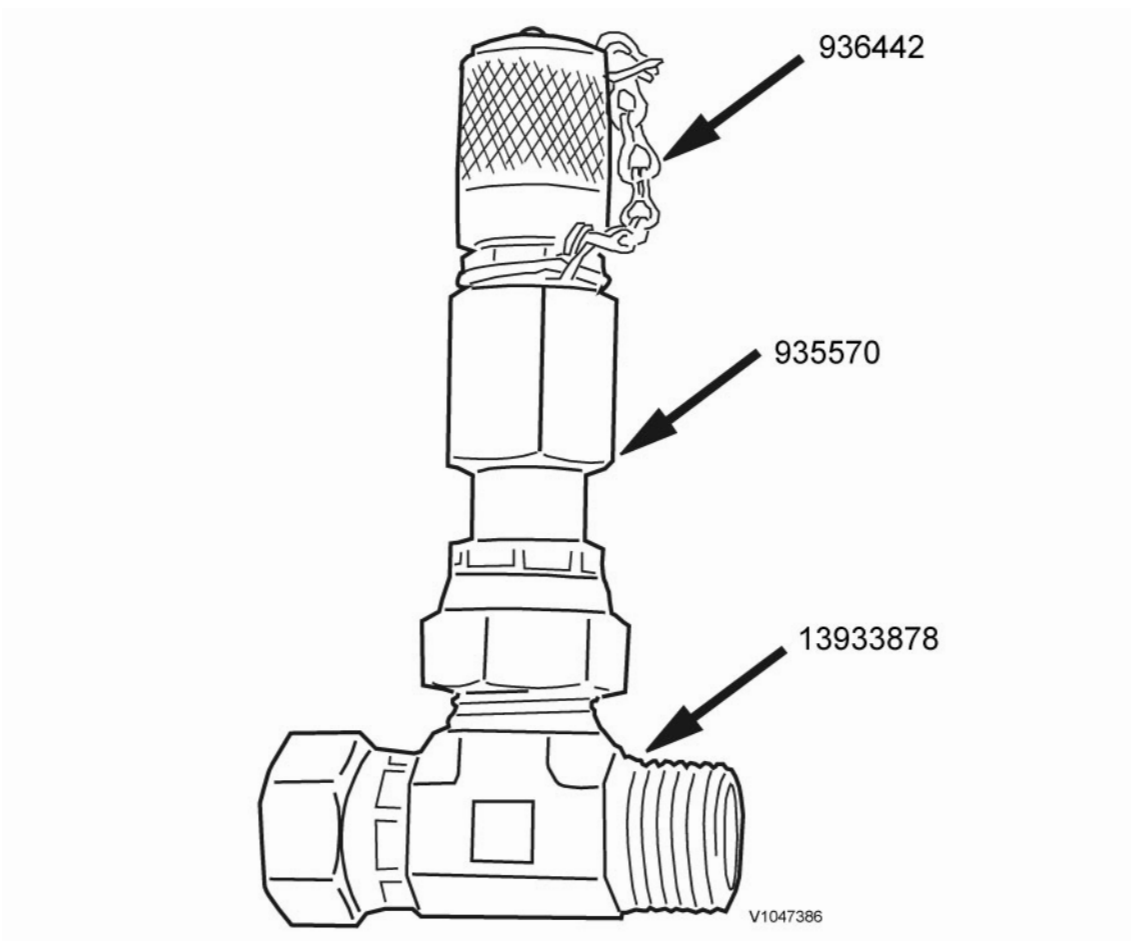


Figure 1

Document Title: E-2005	Function Group: 080	Information Type: Service Information	Date: 4/17/2026
Profile: L60H Volvo			

E-2005

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L60H Volvo			

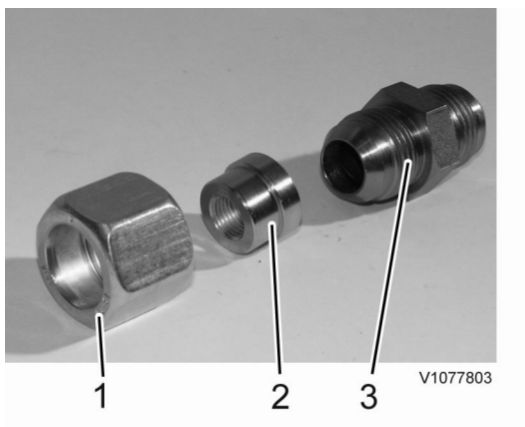


Figure 1

E-tool 2005

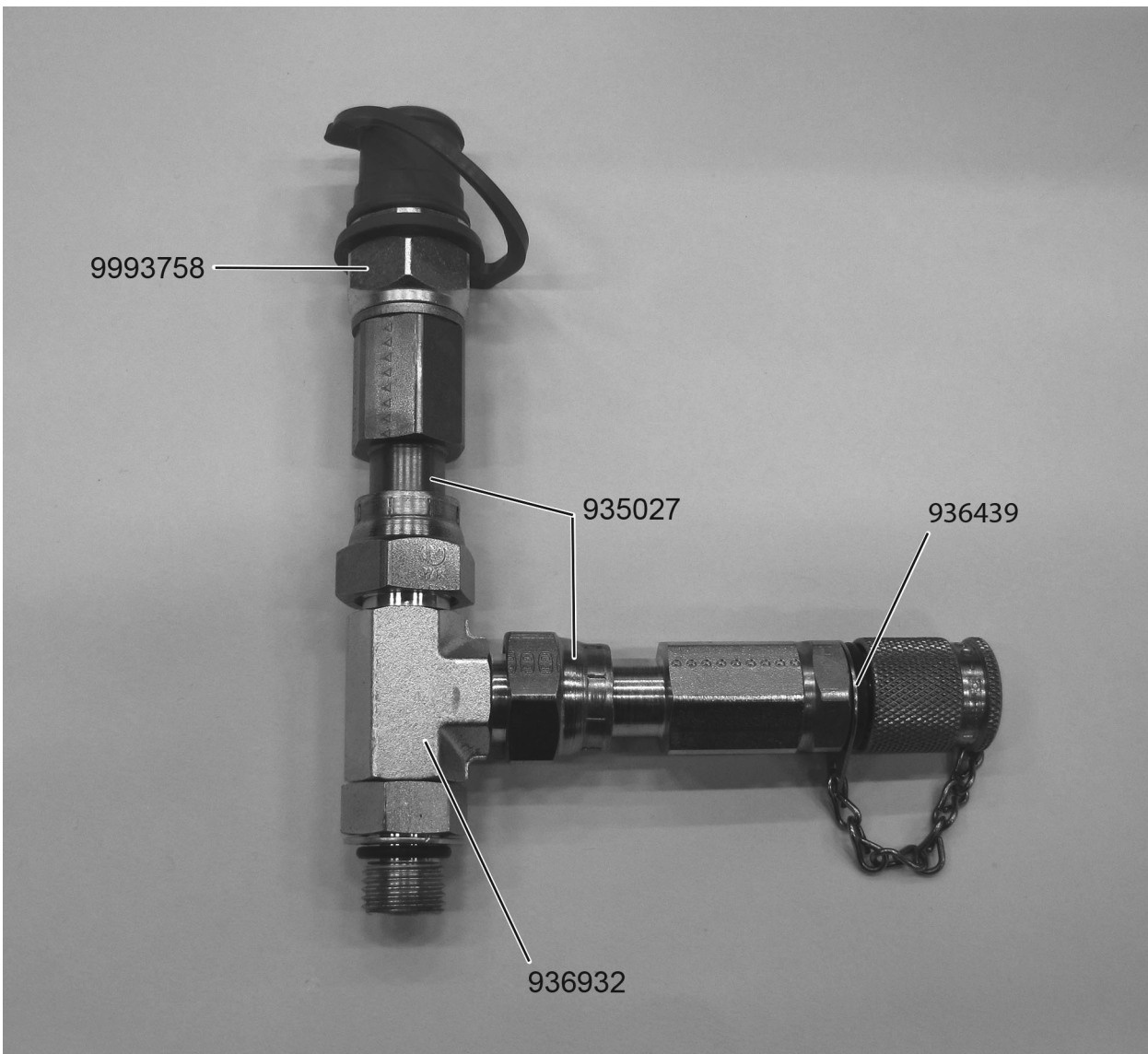
1. Coupling nut 931206
2. Test nipple 11054368 Thread R1/4"
3. Nipple 929315

Document Title: E-2014	Function Group: 080	Information Type: Service Information	Date: 4/17/2026
Profile: L60H Volvo			

E-2014

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L60H Volvo			



V1138633

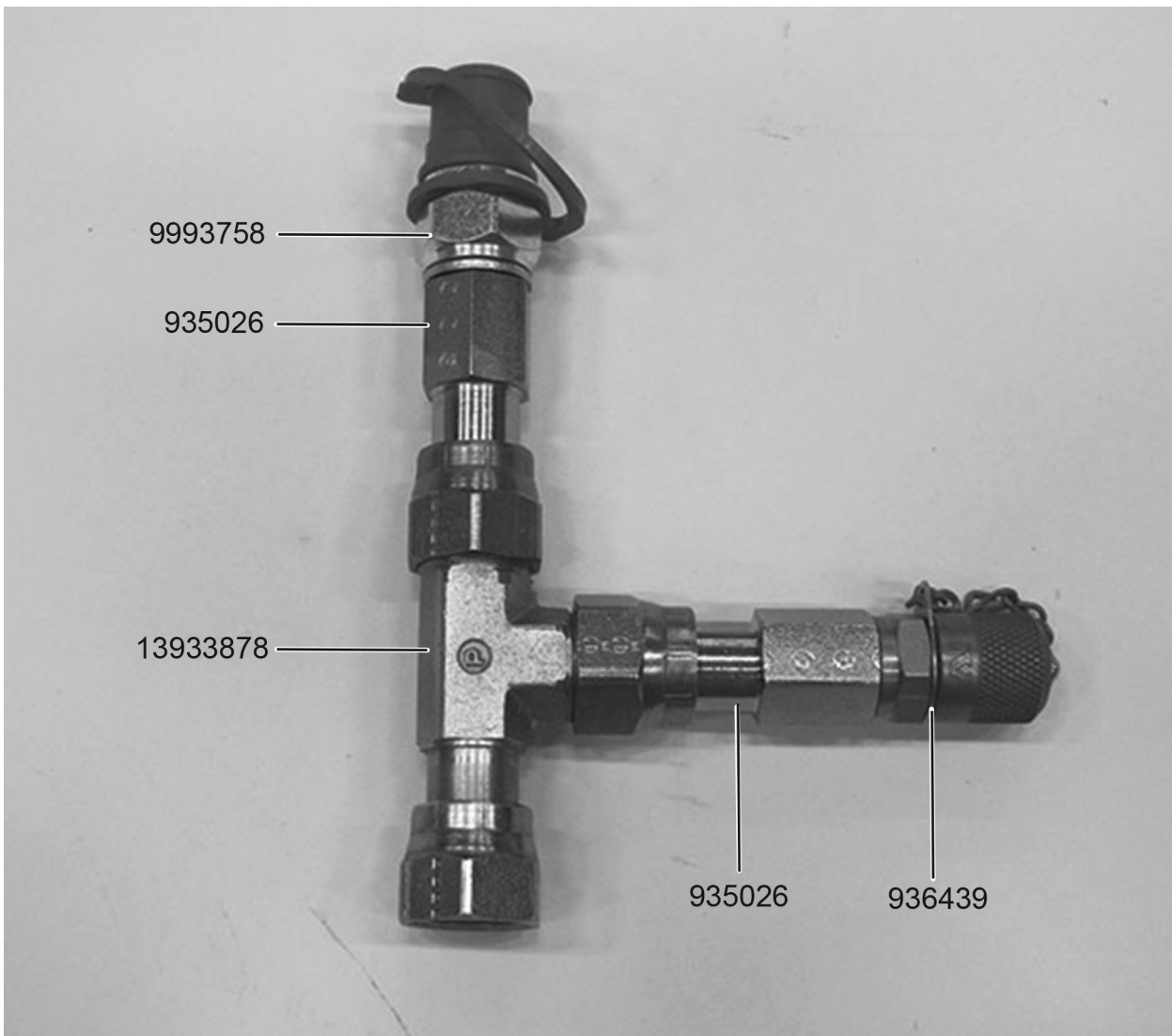
Figure 1

Document Title: E-2015	Function Group: 080	Information Type: Service Information	Date: 4/17/2026
Profile: L60H Volvo			

E-2015

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L60H Volvo			



V1138746

Figure 1

Document Title: E-2030	Function Group: 080	Information Type: Service Information	Date: 4/17/2026
Profile: L60H Volvo			

E-2030

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L60H Volvo			

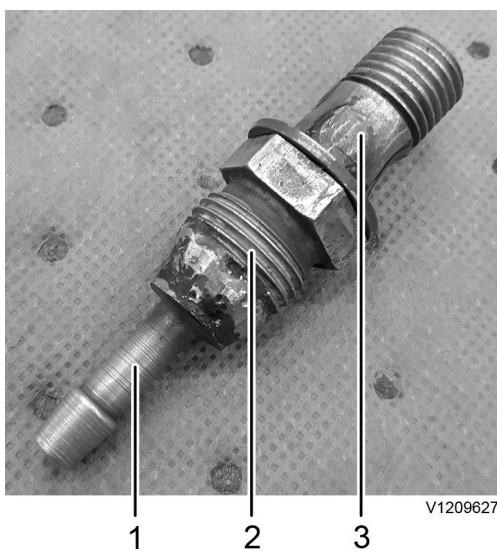


Figure 1

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: 4/17/2026
Profile: L60H Volvo			

E-2032

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L60H Volvo			



Figure 1

1. 995895
2. Washers (2 pcs)

Document Title: 9993807 Lifting tool user instructions	Function Group: 080	Information Type: Service Information	Date: 4/17/2026
Profile: L60H Volvo			

9993807 Lifting tool user instructions

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L60H Volvo			

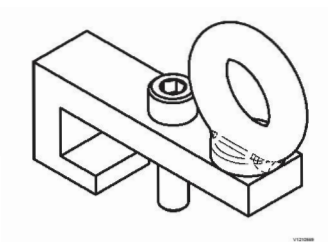


Figure 1

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.

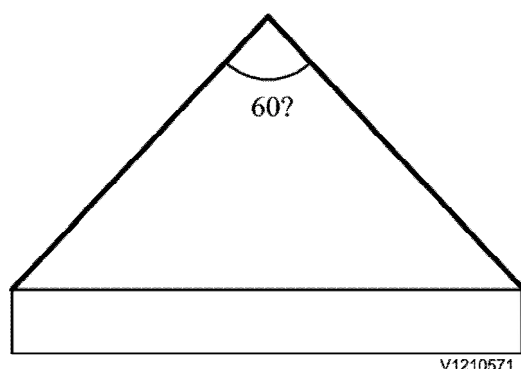


Figure 3

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.

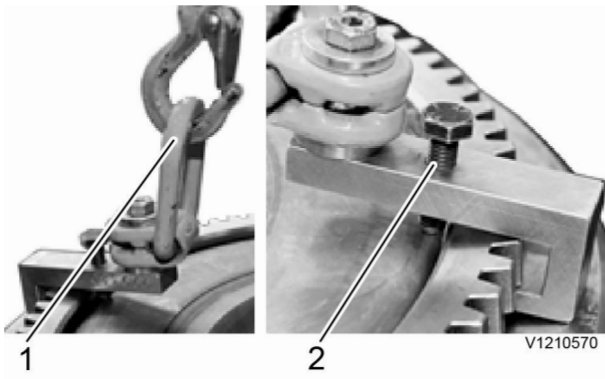


Figure 4

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.

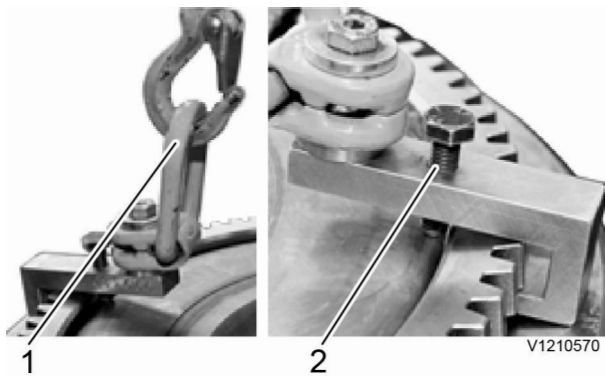


Figure 5

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: 4/17/2026
Profile: L60H Volvo			

11668007 Lifting tool user instructions

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L60H 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.

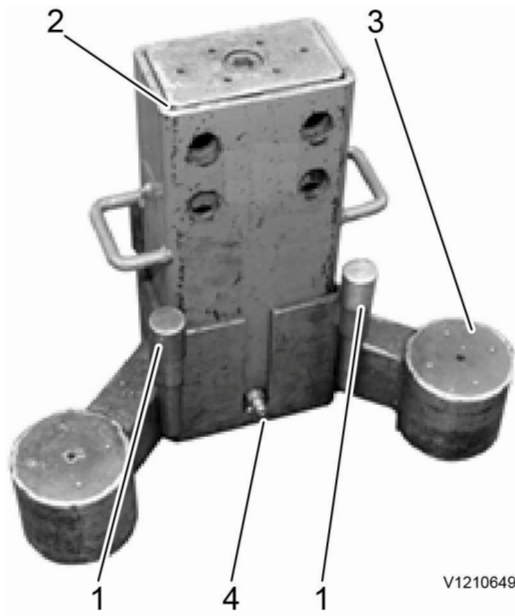


Figure 2

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.

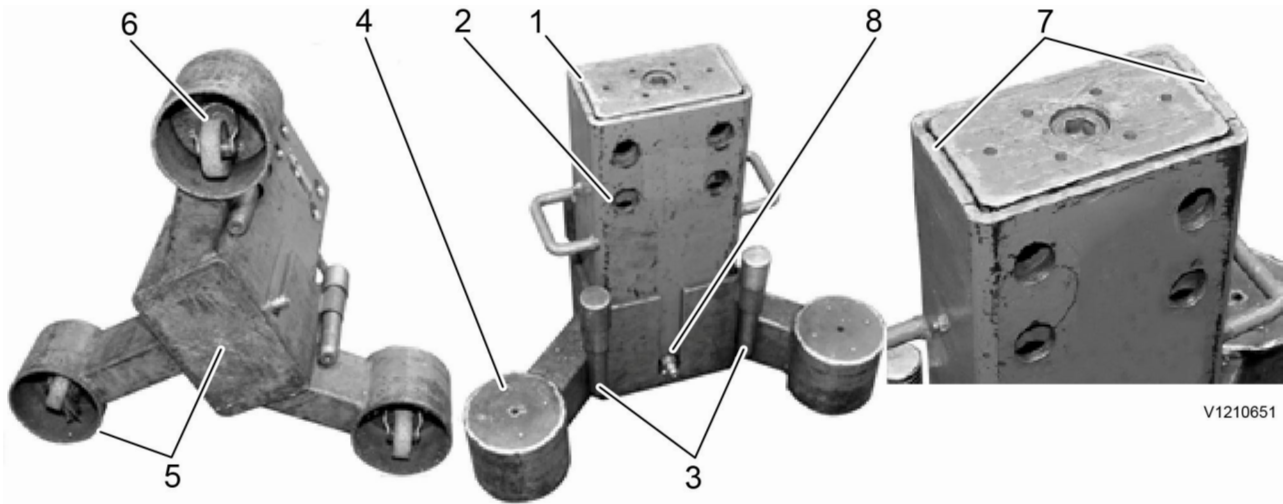
4. **Remove pump and lifting tool**

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.



V1210651

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: 4/17/2026
Profile: L60H Volvo			

11668008 Lifting tool user instructions

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L60H 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: 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

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.



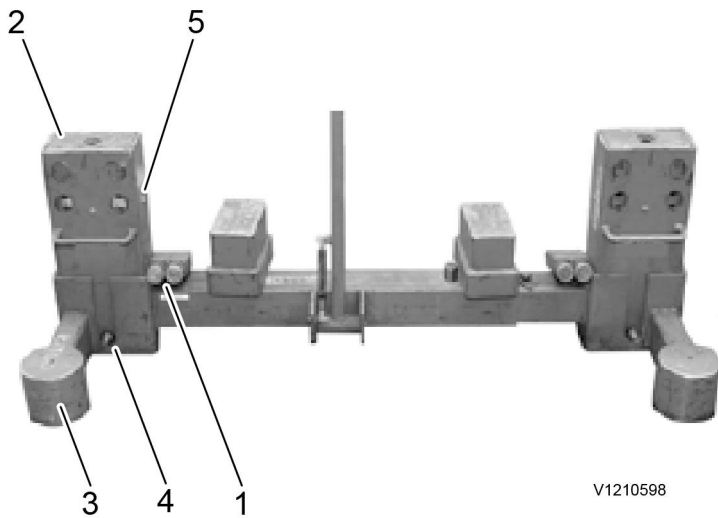
V1071600 Always secured loads with safety pins. To stay under raised load without locking pins, is associated with life danger.



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.

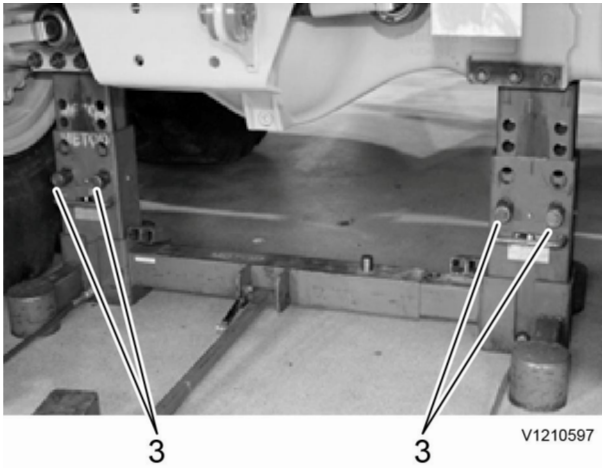


Figure 4

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.