

Document Title: Volvo standard tightening torques	Function Group: 030	Information Type: Service Information	Date: 4/8/2026
Profile: L120H Volvo			

Volvo standard tightening torques

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L120H 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	364	384	518
7/8	350	470	500	670
1	450	608	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	1490	1560	2090
1 3/4	1350	1870	1960	2640
2	1650	2280	2400	3240
2 1/4	2100	2880	3040	4080
2 3/4	2550	3470	3680	4920
3	3000	4070	4320	5800
3 1/2	3500	4730	5040	6800
4	4000	5390	5760	7800
4 1/2	4500	6050	6480	8800
5	5000	6710	7200	9800
5 1/2	5500	7370	7920	10800
6	6000	8030	8640	11800
6 1/2	6500	8690	9360	12800
7	7000	9350	10080	13800
7 1/2	7500	10010	10800	14800
8	8000	10670	11520	15800
8 1/2	8500	11330	12240	16800
9	9000	11990	12960	17800
9 1/2	9500	12650	13680	18800
10	10000	13310	14400	19800
10 1/2	10500	13970	15120	20800
11	11000	14630	15840	21800
11 1/2	11500	15290	16560	22800
12	12000	15950	17280	23800
12 1/2	12500	16610	18000	24800
13	13000	17270	18720	25800
13 1/2	13500	17930	19440	26800
14	14000	18590	20160	27800
14 1/2	14500	19250	20880	28800
15	15000	19910	21600	29800
15 1/2	15500	20570	22320	30800
16	16000	21230	23040	31800
16 1/2	16500	21890	23760	32800
17	17000	22550	24480	33800
17 1/2	17500	23210	25200	34800
18	18000	23870	25920	35800
18 1/2	18500	24530	26640	36800
19	19000	25190	27360	37800
19 1/2	19500	25850	28080	38800
20	20000	26510	28800	39800
20 1/2	20500	27170	29520	40800
21	21000	27830	30240	41800
21 1/2	21500	28490	30960	42800
22	22000	29150	31680	43800
22 1/2	22500	29810	32400	44800
23	23000	30470	33120	45800
23 1/2	23500	31130	33840	46800
24	24000	31790	34560	47800
24 1/2	24500	32450	35280	48800
25	25000	33110	36000	49800
25 1/2	25500	33770	36720	50800
26	26000	34430	37440	51800
26 1/2	26500	35090	38160	52800
27	27000	35750	38880	53800
27 1/2	27500	36410	39600	54800
28	28000	37070	40320	55800
28 1/2	28500	37730	41040	56800
29	29000	38390	41760	57800
29 1/2	29500	39050	42480	58800
30	30000	39710	43200	59800
30 1/2	30500	40370	43920	60800
31	31000	41030	44640	61800
31 1/2	31500	41690	45360	62800
32	32000	42350	46080	63800
32 1/2	32500	43010	46800	64800
33	33000	43670	47520	65800
33 1/2	33500	44330	48240	66800
34	34000	44990	48960	67800
34 1/2	34500	45650	49680	68800
35	35000	46310	50400	69800
35 1/2	35500	46970	51120	70800
36	36000	47630	51840	71800
36 1/2	36500	48290	52560	72800
37	37000	48950	53280	73800
37 1/2	37500	49610	54000	74800
38	38000	50270	54720	75800
38 1/2	38500	50930	55440	76800
39	39000	51590	56160	77800
39 1/2	39500	52250	56880	78800
40	40000	52910	57600	79800
40 1/2	40500	53570	58320	80800
41	41000	54230	59040	81800
41 1/2	41500	54890	59760	82800
42	42000	55550	60480	83800
42 1/2	42500	56210	61200	84800
43	43000	56870	61920	85800
43 1/2	43500	57530	62640	86800
44	44000	58190	63360	87800
44 1/2	44500	58850	64080	88800
45	45000	59510	64800	89800
45 1/2	45500	60170	65520	90800
46	46000	60830	66240	91800
46 1/2	46500	61490	66960	92800
47	47000	62150	67680	93800
47 1/2	47500	62810	68400	94800
48	48000	63470	69120	95800
48 1/2	48500	64130	69840	96800
49	49000	64790	70560	97800
49 1/2	49500	65450	71280	98800
50	50000	66110	72000	99800
50 1/2	50500	66770	72720	100800
51	51000	67430	73440	101800
51 1/2	51500	68090	74160	102800
52	52000	68750	74880	103800
52 1/2	52500	69410	75600	104800
53	53000	70070	76320	105800
53 1/2	53500	70730	77040	106800
54	54000	71390	77760	107800
54 1/2	54500	72050	78480	108800
55	55000	72710	79200	109800
55 1/2	55500	73370	79920	110800
56	56000	74030	80640	111800
56 1/2	56500	74690	81360	112800
57	57000	75350	82080	113800
57 1/2	57500	76010	82800	114800
58	58000	76670	83520	115800
58 1/2	58500	77330	84240	116800
59	59000	77990	84960	117800
59 1/2	59500	78650	85680	118800
60	60000	79310	86400	119800
60 1/2	60500	79970	87120	120800
61	61000	80630	87840	121800
61 1/2	61500	81290	88560	122800
62	62000	81950	89280	123800
62 1/2	62500	82610	90000	124800
63	63000	83270	90720	125800
63 1/2	63500	83930	91440	126800
64	64000	84590	92160	127800
64 1/2	64500	85250	92880	128800
65	65000	85910	93600	129800
65 1/2	65500	86570	94320	130800
66	66000	87230	95040	131800
66 1/2	66500	87890	95760	132800
67	67000	88550	96480	133800
67 1/2	67500	89210	97200	134800
68	68000	89870	97920	135800
68 1/2	68500	90530	98640	136800
69	69000	91190	99360	137800
69 1/2	69500	91850	100080	138800
70	70000	92510	100800	139800
70 1/2	70500	93170	101520	140800
71	71000	93830	102240	141800
71 1/2	71500	94490	102960	142800
72	72000	95150	103680	143800
72 1/2	72500	95810	104400	144800
73	73000	96470	105120	145800
73 1/2	73500	97130	105840	146800
74	74000	97790	106560	147800
74 1/2	74500	98450	107280	148800
75	75000	99110	108000	149800
75 1/2	75500	99770	108720	150800
76	76000	100430	109440	151800
76 1/2	76500	101090	110160	152800
77	77000	101750	110880	153800
77 1/2	77500	102410	111600	154800
78	78000	103070	112320	155800
78 1/2	78500	103730	113040	156800
79	79000	104390	113760	157800
79 1/2	79500	105050	114480	158800
80	80000	105710	115200	159800
80 1/2	80500	106370	115920	160800
81	81000	107030	116640	161800
81 1/2	81500	107690	117360	162800
82	82000	108350	118080	163800
82 1/2	82500	109010	118800	164800
83	83000	109670	119520	165800
83 1/2	83500	110330	120240	166800
84	84000	110990	120960	167800
84 1/2	84500	111650	121680	168800
85	85000	112310	122400	169800
85 1/2	85500	112970	123120	170800
86	86000	113630	123840	171800
86 1/2	86500	114290	124560	172800
87	87000	114950	125280	173800
87 1/2	87500	115610	126000	174800
88	88000	116270	126720	175800
88 1/2	88500	116930	127440	176800
89	89000	117590	128160	177800
89 1/2	89500	118250	128880	178800
90	90000	118910	129600	179800
90 1/2	90500	119570	130320	180800
91	91000	120230	131040	181800
91 1/2	91500	120890	131760	182800
92	92000	121550	132480	183800
92 1/2	92500	122210	133200	184800

Product: L120H Volvo Wheel Loaders Service Manual

Full Download: <https://www.arepairmanual.com/downloads/l120h-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 5718 pages at:

<https://www.arepairmanual.com/downloads/l120h-volvo-wheel-loaders-service-manual/>

Document Title: Conversion tables	Function Group: 030	Information Type: Service Information	Date: 4/8/2026
Profile: L120H Volvo			

Conversion tables

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L120H 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

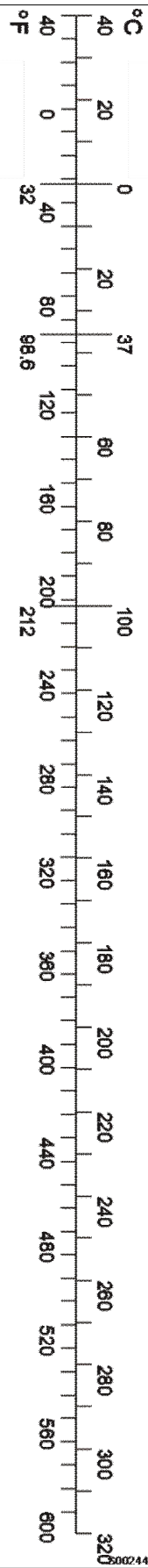
Unit explanations

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: 4/8/2026
Profile: L120H Volvo			

Torque wrench extension

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L120H 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.

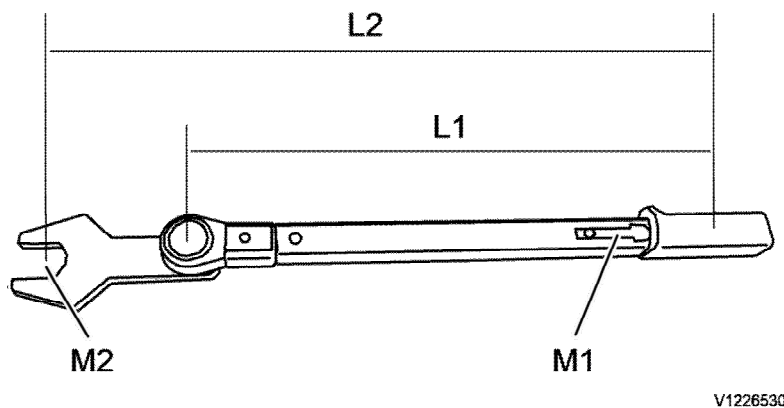


Figure 1

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 cm

L2 = 60 cm

M2 = 100 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: 4/8/2026
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: E-2049	Function Group: 080	Information Type: Service Information	Date: 4/8/2026
Profile: L120H Volvo			

E-2049

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Valid for option/configuration			
Model	Option no.	Option	Configuration
L120H Volvo	53224080	Engine	D8M US Tier 4 final
L120H Volvo	53224081	Engine	D8M EU Stage V
L120H Volvo	53224085	Engine	D8L Stage IIIA
L120H Volvo	55010155	Engine	D8L Stage IIIA
L120H Volvo	55010156	Engine	D8M EU Stage V

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L120H Volvo	Arvika	16801	17000
L120H Volvo	Arvika	21001	26000
L120H Volvo	Arvika	26001	34000
L120H Volvo	Pederneiras	77001	99999
L120H Volvo	Shippensburg	634201	641000

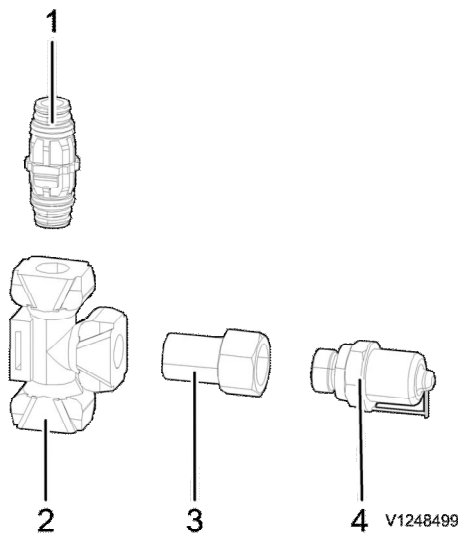


Figure 1

1. 991080
2. 991980
3. 991079
4. 15018967

Document Title: E 1708, Checking point	Function Group: 080	Information Type: Service Information	Date: 4/8/2026
Profile: L120H Volvo			

E 1708, Checking point

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L120H Volvo			

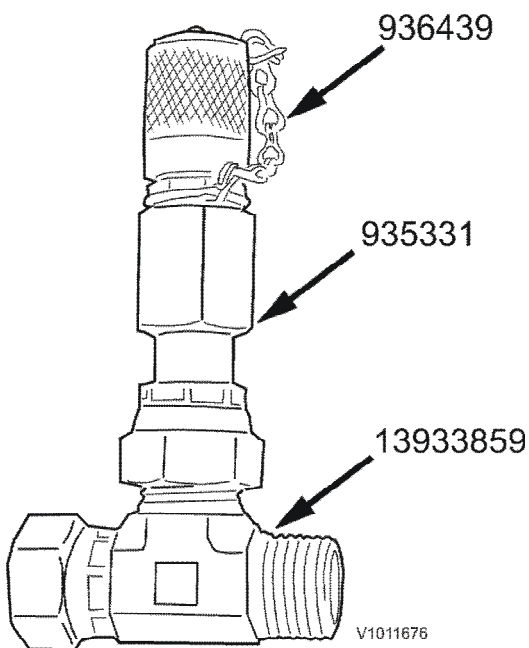


Figure 1

Document Title: E1711	Function Group: 080	Information Type: Service Information	Date: 4/8/2026
Profile: L120H Volvo			

E1711

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L120H Volvo			

E1711

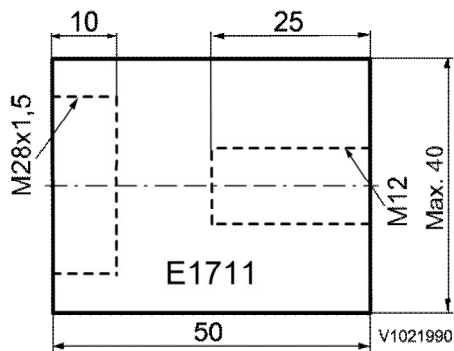


Figure 1
E1711

Document Title: E-2005	Function Group: 080	Information Type: Service Information	Date: 4/8/2026
Profile: L120H Volvo			

E-2005

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L120H Volvo			

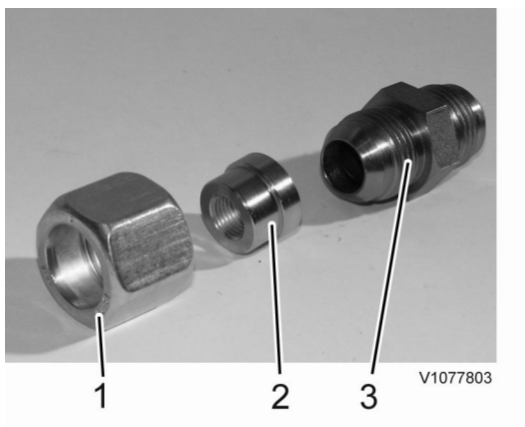


Figure 1

E-tool 2005

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

Document Title: E-2010	Function Group: 080	Information Type: Service Information	Date: 4/8/2026
Profile: L120H Volvo			

E-2010

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L120H Volvo			

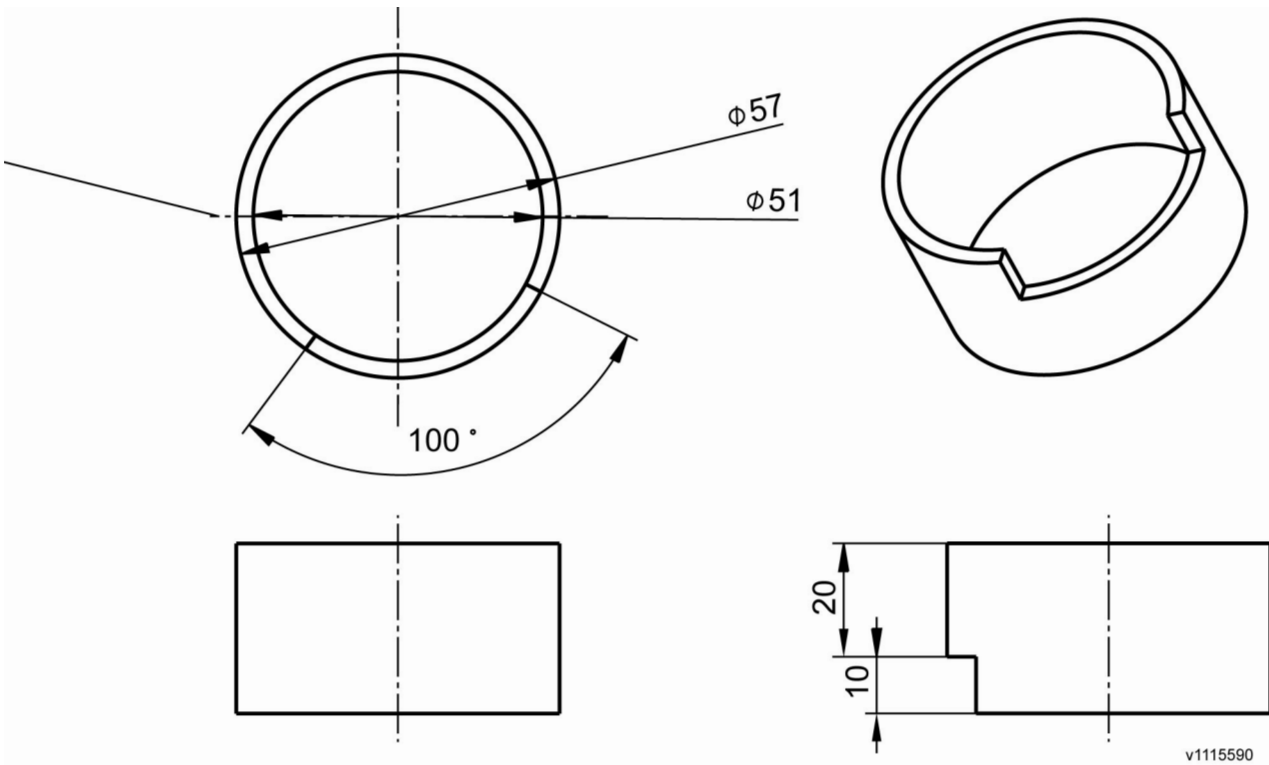


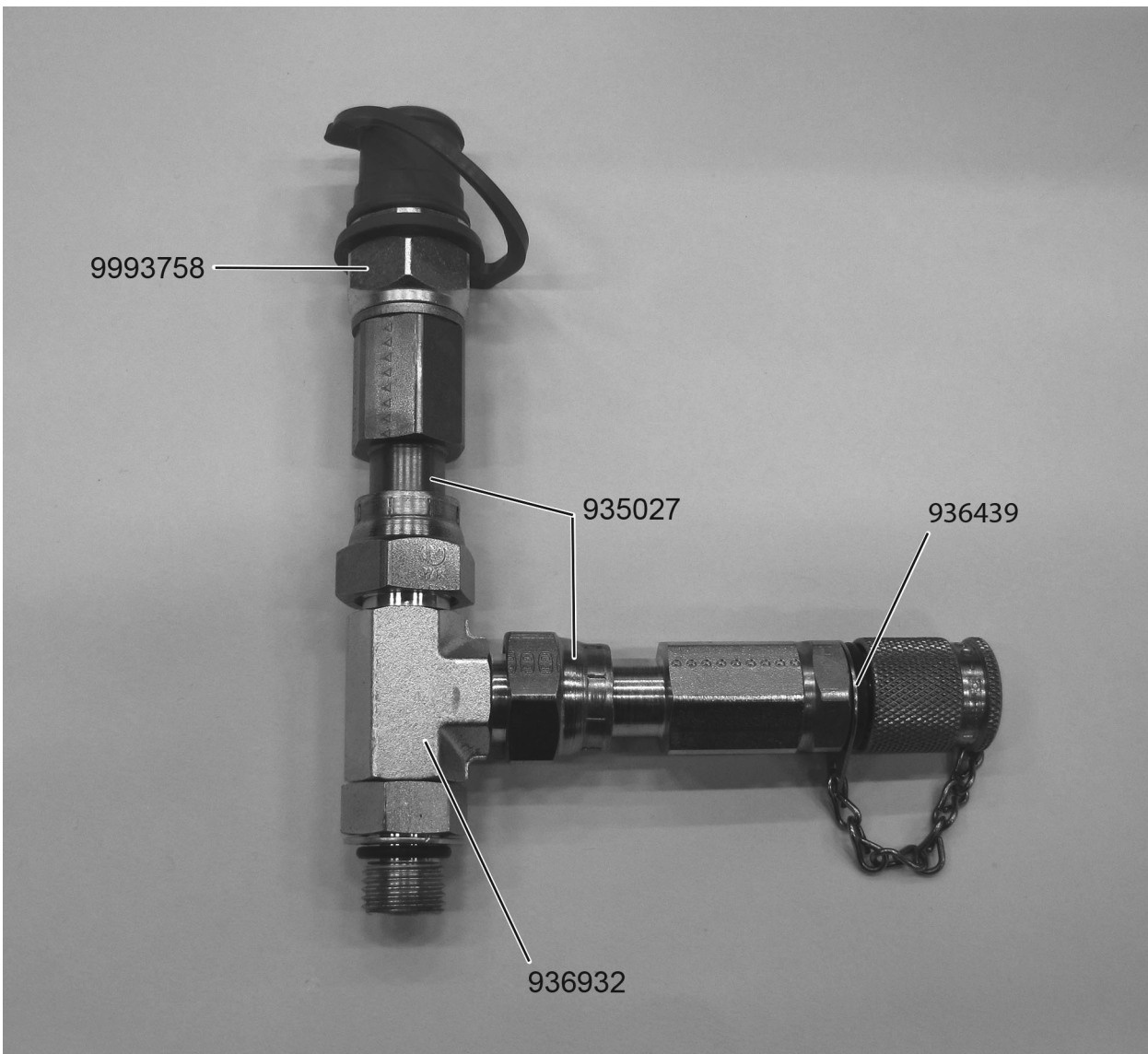
Figure 1

Document Title: E-2014	Function Group: 080	Information Type: Service Information	Date: 4/8/2026
Profile: L120H Volvo			

E-2014

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L120H Volvo			



V1138633

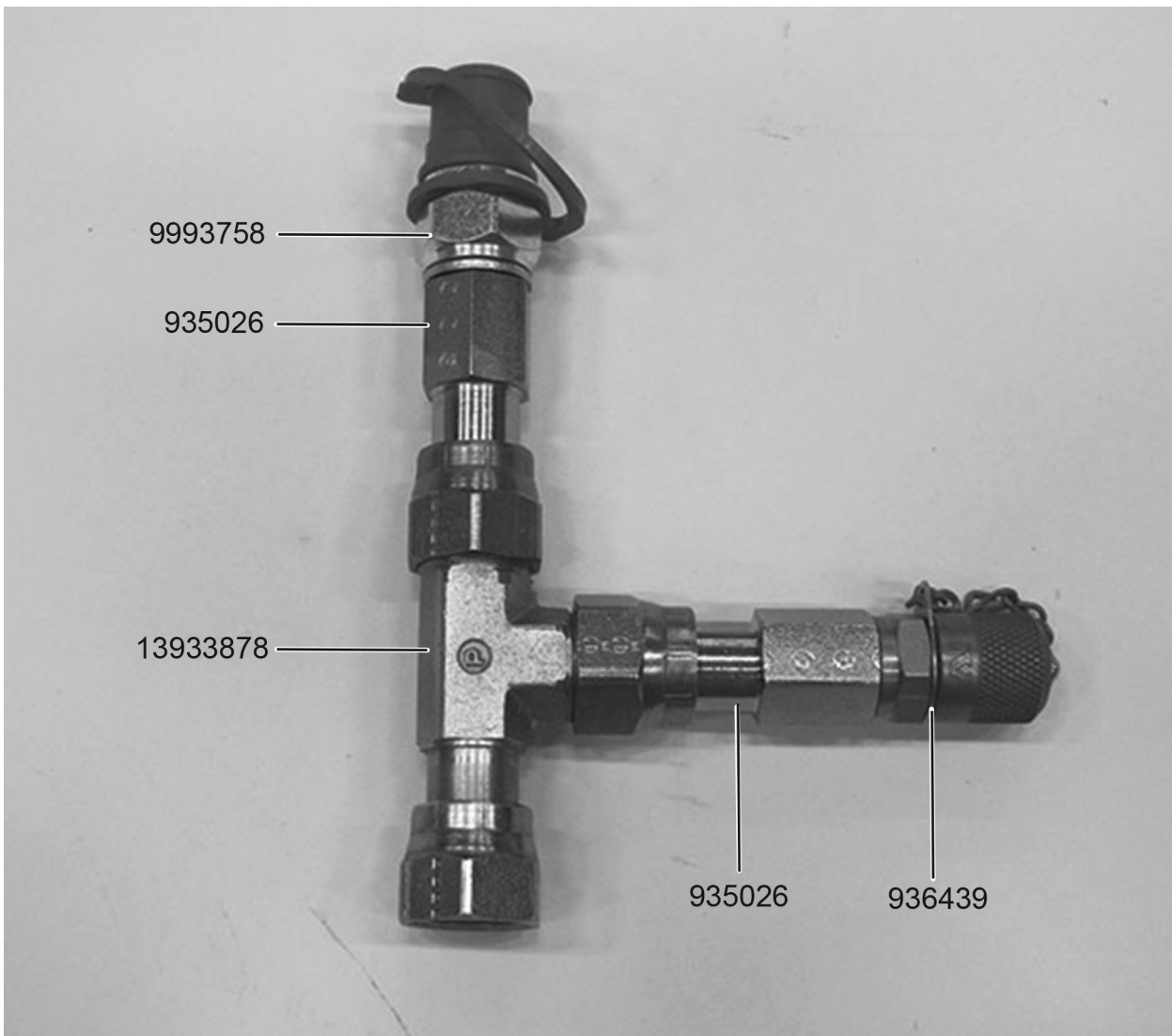
Figure 1

Document Title: E-2015	Function Group: 080	Information Type: Service Information	Date: 4/8/2026
Profile: L120H Volvo			

E-2015

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L120H Volvo			



V1138746

Figure 1

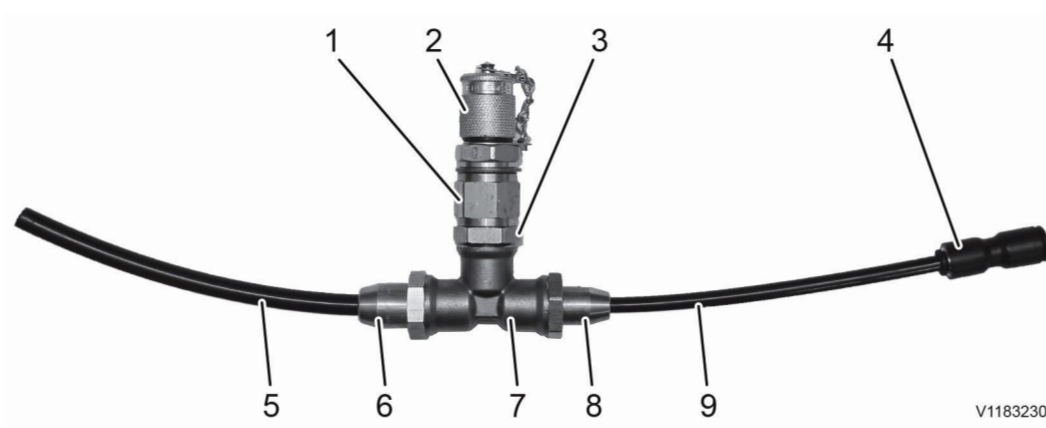
Document Title: E-2016	Function Group: 080	Information Type: Service Information	Date: 4/8/2026
Profile: L120H Volvo			

E-2016

Showing Selected Profile

Valid for option/configuration			
Model	Option no.	Option	Configuration
L120H Volvo	53224080	Engine	D8M US Tier 4 final
L120H Volvo	53224081	Engine	D8M EU Stage V
L120H Volvo	53224085	Engine	D8L Stage IIIA
L120H Volvo	55010155	Engine	D8L Stage IIIA
L120H Volvo	55010156	Engine	D8M EU Stage V

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L120H Volvo	Arvika	16801	17000
L120H Volvo	Arvika	21001	26000
L120H Volvo	Arvika	26001	34000
L120H Volvo	Pederneiras	77001	99999
L120H Volvo	Shippensburg	634201	641000



V1183230

Figure 1

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

Document Title: E-2019	Function Group: 080	Information Type: Service Information	Date: 4/8/2026
Profile: L120H Volvo			

E-2019

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L120H Volvo			

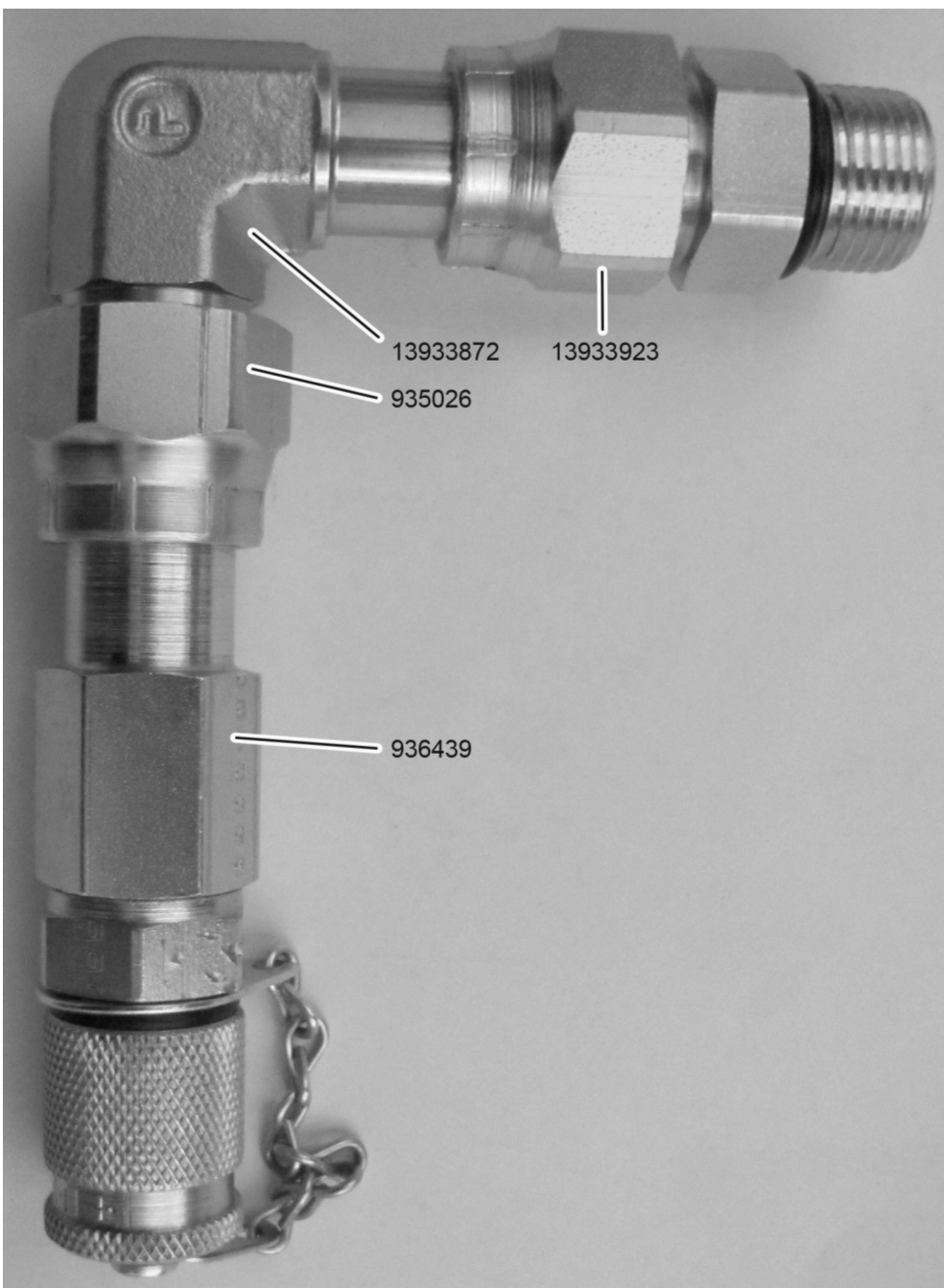


Figure 1

Document Title: E-2036	Function Group: 080	Information Type: Service Information	Date: 4/8/2026
Profile: L120H Volvo			

E-2036

Showing Selected Profile

Valid for option/configuration			
Model	Option no.	Option	Configuration
L120H Volvo	53224080	Engine	D8M US Tier 4 final
L120H Volvo	53224081	Engine	D8M EU Stage V
L120H Volvo	55010156	Engine	D8M EU Stage V

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L120H Volvo	Arvika	16801	17000
L120H Volvo	Arvika	21001	26000
L120H Volvo	Shippensburg	634201	641000

Socket

Dimensions on the drawing are given in mm.

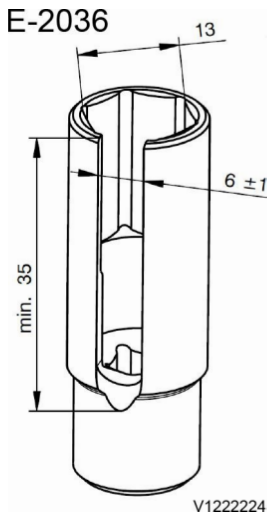


Figure 1

E-2036

Socket, 13 mm

Document Title: E-2030	Function Group: 080	Information Type: Service Information	Date: 4/8/2026
Profile: L120H Volvo			

E-2030

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L120H Volvo			

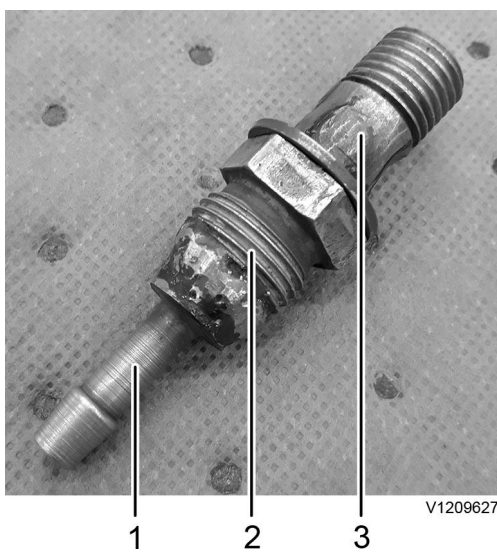


Figure 1

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

Document Title: 9993807 Lifting tool user instructions	Function Group: 080	Information Type: Service Information	Date: 4/8/2026
Profile: L120H Volvo			

9993807 Lifting tool user instructions

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L120H Volvo			

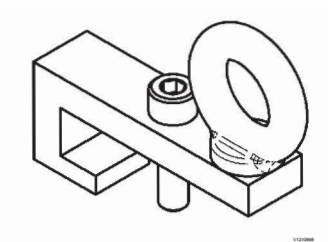


Figure 1

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.

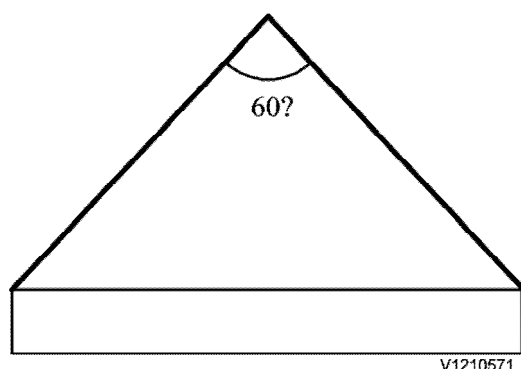


Figure 3

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.

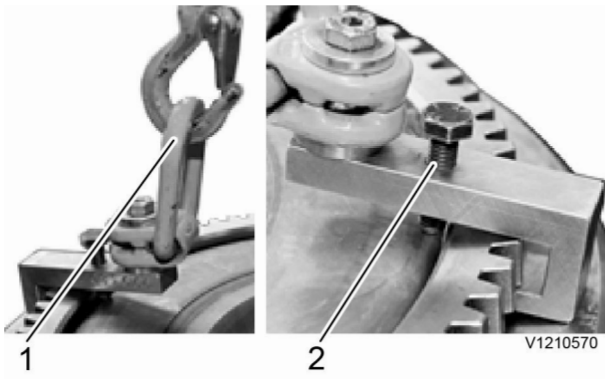


Figure 4

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.

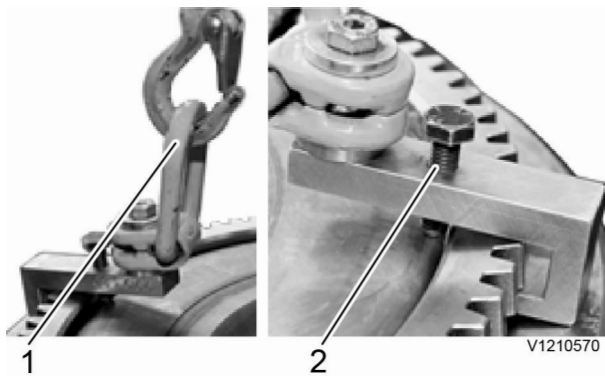


Figure 5

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: 4/8/2026
Profile: L120H Volvo			

11668007 Lifting tool user instructions

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L120H 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.

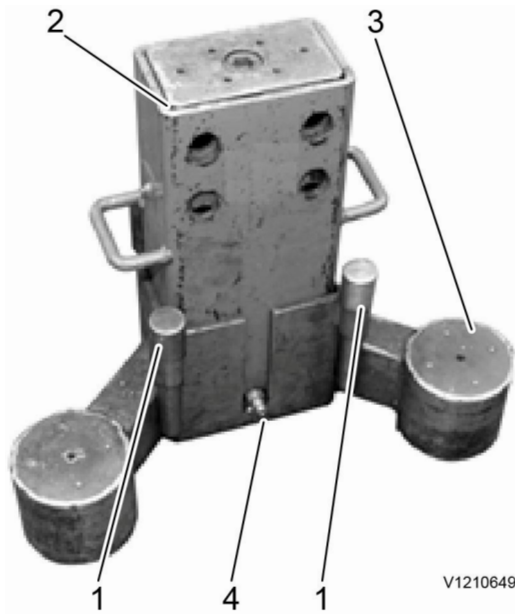


Figure 2

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.

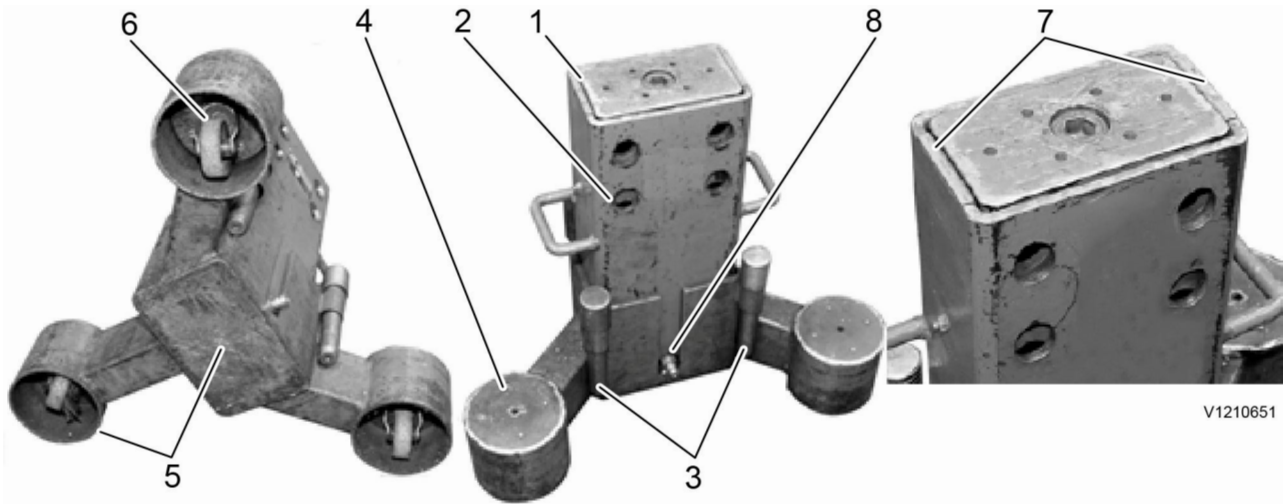
4. **Remove pump and lifting tool**

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.

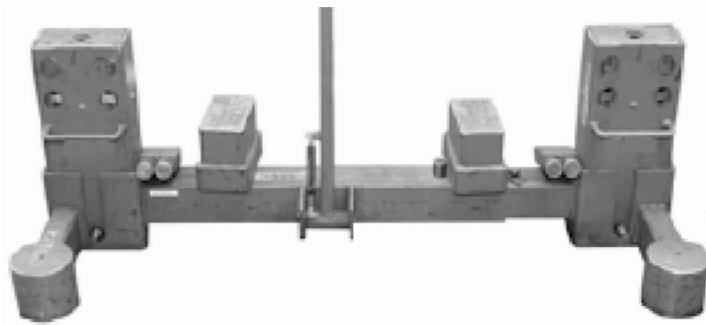
- Check for cracks.
- Check if the lifting tool is bent or deformed.
- Make sure that quick couplings are clean.

Document Title: 11668008 Lifting tool user instructions	Function Group: 080	Information Type: Service Information	Date: 4/8/2026
Profile: L120H Volvo			

11668008 Lifting tool user instructions

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L120H 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 <https://www.arepairmanual.com/downloads/l120h-volvo-wheel-loaders-service-manual/>