

Document Title: Volvo standard tightening torques	Function Group: 030	Information Type: Service Information	Date: 5/19/2026
Profile: L150H Volvo			

Volvo standard tightening torques

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150H 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
3/4	200	271	284	388
1 1/8	300	408	428	581
1 1/4	400	544	576	776
1 3/8	500	680	720	970
1 1/2	600	816	864	1164
1 5/8	700	952	1008	1358
1 3/4	800	1088	1152	1552
1 7/8	900	1224	1296	1746
2	1000	1360	1440	1940
2 1/8	1100	1496	1584	2134
2 1/4	1200	1632	1728	2328
2 3/8	1300	1768	1872	2522
2 1/2	1400	1904	2016	2716
2 5/8	1500	2040	2160	2910
2 3/4	1600	2176	2304	3104
2 7/8	1700	2312	2448	3298
3	1800	2448	2592	3492
3 1/8	1900	2584	2736	3686
3 1/4	2000	2720	2880	3880
3 3/8	2100	2856	3024	4074
3 1/2	2200	2992	3168	4268
3 5/8	2300	3128	3312	4462
3 3/4	2400	3264	3456	4656
3 7/8	2500	3400	3600	4850
4	2600	3536	3744	5044
4 1/8	2700	3672	3888	5238
4 1/4	2800	3808	4032	5432
4 3/8	2900	3944	4176	5626
4 1/2	3000	4080	4320	5820
4 5/8	3100	4216	4464	6014
4 3/4	3200	4352	4608	6208
4 7/8	3300	4488	4752	6402
5	3400	4624	4896	6596
5 1/8	3500	4760	5040	6790
5 1/4	3600	4896	5184	6984
5 3/8	3700	5032	5328	7178
5 1/2	3800	5168	5472	7372
5 5/8	3900	5304	5616	7566
5 3/4	4000	5440	5760	7760
5 7/8	4100	5576	5904	7954
6	4200	5712	6048	8148
6 1/8	4300	5848	6192	8342
6 1/4	4400	5984	6336	8536
6 3/8	4500	6120	6480	8730
6 1/2	4600	6256	6624	8924
6 5/8	4700	6392	6768	9118
6 3/4	4800	6528	6912	9312
6 7/8	4900	6664	7056	9506
7	5000	6800	7200	9700
7 1/8	5100	6936	7344	9894
7 1/4	5200	7072	7488	10088
7 3/8	5300	7208	7632	10282
7 1/2	5400	7344	7776	10476
7 5/8	5500	7480	7920	10670
7 3/4	5600	7616	8064	10864
7 7/8	5700	7752	8208	11058
8	5800	7888	8352	11252
8 1/8	5900	8024	8496	11446
8 1/4	6000	8160	8640	11640
8 3/8	6100	8296	8784	11834
8 1/2	6200	8432	8928	12028
8 5/8	6300	8568	9072	12222
8 3/4	6400	8704	9216	12416
8 7/8	6500	8840	9360	12610
9	6600	8976	9504	12804
9 1/8	6700	9112	9648	13000
9 1/4	6800	9248	9792	13194
9 3/8	6900	9384	9936	13388
9 1/2	7000	9520	10080	13582
9 5/8	7100	9656	10224	13776
9 3/4	7200	9792	10368	13970
9 7/8	7300	9928	10512	14164
10	7400	10064	10656	14358
10 1/8	7500	10200	10800	14552
10 1/4	7600	10336	10944	14746
10 3/8	7700	10472	11088	14940
10 1/2	7800	10608	11232	15134
10 5/8	7900	10744	11376	15328
10 3/4	8000	10880	11520	15522
10 7/8	8100	11016	11664	15716
11	8200	11152	11808	15910
11 1/8	8300	11288	11952	16104
11 1/4	8400	11424	12096	16298
11 3/8	8500	11560	12240	16492
11 1/2	8600	11696	12384	16686
11 5/8	8700	11832	12528	16880
11 3/4	8800	11968	12672	17074
11 7/8	8900	12104	12816	17268
12	9000	12240	12960	17462
12 1/8	9100	12376	13104	17656
12 1/4	9200	12512	13248	17850
12 3/8	9300	12648	13392	18044
12 1/2	9400	12784	13536	18238
12 5/8	9500	12920	13680	18432
12 3/4	9600	13056	13824	18626
12 7/8	9700	13192	13968	18820
13	9800	13328	14112	19014
13 1/8	9900	13464	14256	19208
13 1/4	10000	13600	14400	19402
13 3/8	10100	13736	14544	19596
13 1/2	10200	13872	14688	19790
13 5/8	10300	14008	14832	19984
13 3/4	10400	14144	14976	20178
13 7/8	10500	14280	15120	20372
14	10600	14416	15264	20566
14 1/8	10700	14552	15408	20760
14 1/4	10800	14688	15552	20954
14 3/8	10900	14824	15696	21148
14 1/2	11000	14960	15840	21342
14 5/8	11100	15096	15984	21536
14 3/4	11200	15232	16128	21730
14 7/8	11300	15368	16272	21924
15	11400	15504	16416	22118
15 1/8	11500	15640	16560	22312
15 1/4	11600	15776	16704	22506
15 3/8	11700	15912	16848	22700
15 1/2	11800	16048	16992	22894
15 5/8	11900	16184	17136	23088
15 3/4	12000	16320	17280	23282
15 7/8	12100	16456	17424	23476
16	12200	16592	17568	23670
16 1/8	12300	16728	17712	23864
16 1/4	12400	16864	17856	24058
16 3/8	12500	17000	18000	24252
16 1/2	12600	17136	18144	24446
16 5/8	12700	17272	18288	24640
16 3/4	12800	17408	18432	24834
16 7/8	12900	17544	18576	25028
17	13000	17680	18720	25222
17 1/8	13100	17816	18864	25416
17 1/4	13200	17952	19008	25610
17 3/8	13300	18088	19152	25804
17 1/2	13400	18224	19296	26000
17 5/8	13500	18360	19440	26194
17 3/4	13600	18496	19584	26388
17 7/8	13700	18632	19728	26582
18	13800	18768	19872	26776
18 1/8	13900	18904	20016	26970
18 1/4	14000	19040	20160	27164
18 3/8	14100	19176	20304	27358
18 1/2	14200	19312	20448	27552
18 5/8	14300	19448	20592	27746
18 3/4	14400	19584	20736	27940
18 7/8	14500	19720	20880	28134
19	14600	19856	21024	28328
19 1/8	14700	19992	21168	28522
19 1/4	14800	20128	21312	28716
19 3/8	14900	20264	21456	28910
19 1/2	15000	20400	21600	29104
19 5/8	15100	20536	21744	29298
19 3/4	15200	20672	21888	29492
19 7/8	15300	20808	22032	29686
20	15400	20944	22176	29880
20 1/8	15500	21080	22320	30074
20 1/4	15600	21216	22464	30268
20 3/8	15700	21352	22608	30462
20 1/2	15800	21488	22752	30656
20 5/8	15900	21624	22896	30850
20 3/4	16000	21760	23040	31044
20 7/8	16100	21896	23184	31238
21	16200	22032	23328	31432
21 1/8	16300	22168	23472	31626
21 1/4	16400	22304	23616	31820
21 3/8	16500	22440	23760	32014
21 1/2	16600	22576	23904	32208
21 5/8	16700	22712	24048	32402
21 3/4	16800	22848	24192	32596
21 7/8	16900	22984	24336	32790
22	17000	23120	24480	32984
22 1/8	17100	23256	24624	33178
22 1/4	17200	23392	24768	33372
22 3/8	17300	23528	24912	33566
22 1/2	17400	23664	25056	33760
22 5/8	17500	23800	25200	33954
22 3/4	17600	23936	25344	34148
22 7/8	17700	24072	25488	34342
23	17800	24208	25632	34536
23 1/8	17900	24344	25776	34730
23 1/4	18000	24480	25920	34924
23 3/8	18100	24616	26064	35118
23 1/2	18200	24752	26208	35312
23 5/8	18300	24888	26352	35506
23 3/4	18400	25024	26496	35700
23 7/8	18500	25160	26640	35894
24	18600	25296	26784	36088
24 1/8	18700	25432	26928	36282
24 1/4	18800	25568	27072	36476
24 3/8	18900	25704	27216	36670
24 1/2	19000	25840	27360	36864
24 5/8	19100	25976	27504	37058
24 3/4	19200	26112	27648	37252
24 7/8	19300	26248	27792	37446
25	19400	26384	27936	37640
25 1/8	19500	26520	28080	37834
25 1/4	19600	26		

Product: L150H Volvo Wheel Loaders Service Manual

Full Download: <https://www.arepairmanual.com/downloads/l150h-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 4963 pages at:

<https://www.arepairmanual.com/downloads/l150h-volvo-wheel-loaders-service-manual/>

Document Title: Conversion tables	Function Group: 030	Information Type: Service Information	Date: 5/19/2026
Profile: L150H Volvo			

Conversion tables

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150H 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

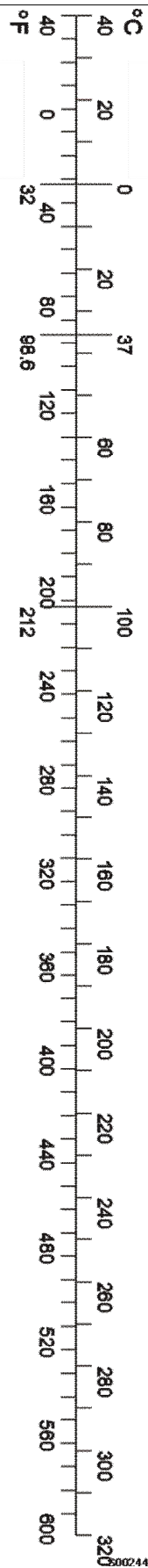
Unit explanations

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: 5/19/2026
Profile: L150H Volvo			

Torque wrench extension

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Model	Production site	Serial number start	Serial number stop
L150H 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.

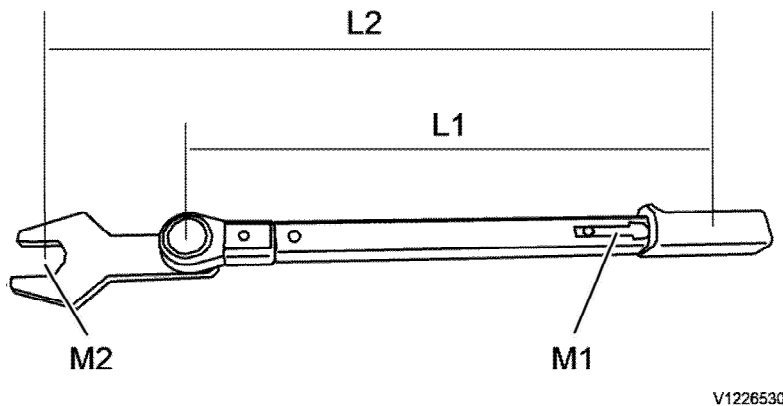
L1 is the normal length of the torque wrench.

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.



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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: 5/19/2026
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: E1680, Holder	Function Group: 080	Information Type: Service Information	Date: 5/19/2026
Profile: L150H Volvo			

E1680, Holder

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150H Volvo			

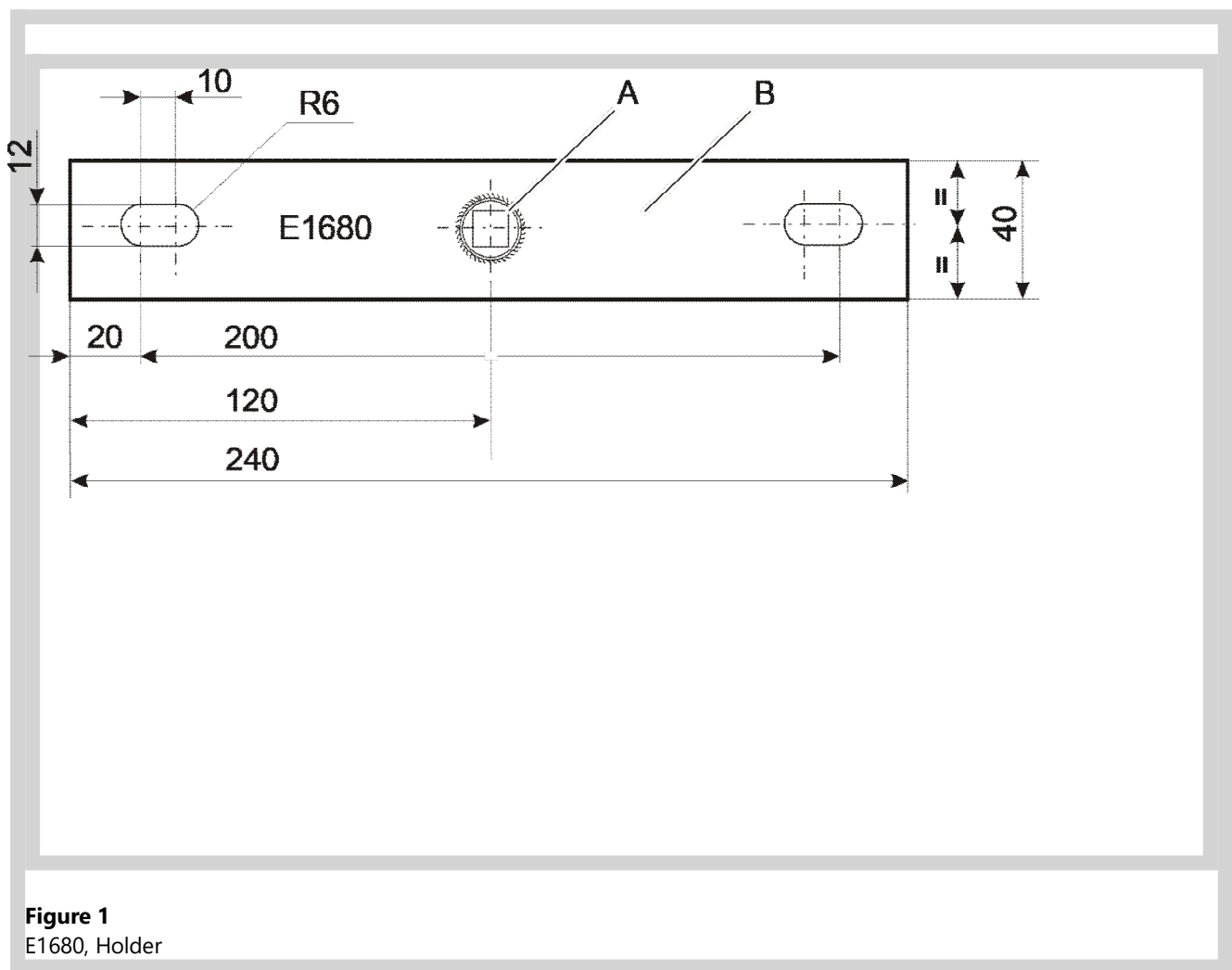


Figure 1
E1680, Holder

A	1/2" Socket
B	Flat iron bar 5 mm

Document Title: E 1708, Checking point	Function Group: 080	Information Type: Service Information	Date: 5/19/2026
Profile: L150H Volvo			

E 1708, Checking point

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150H Volvo			

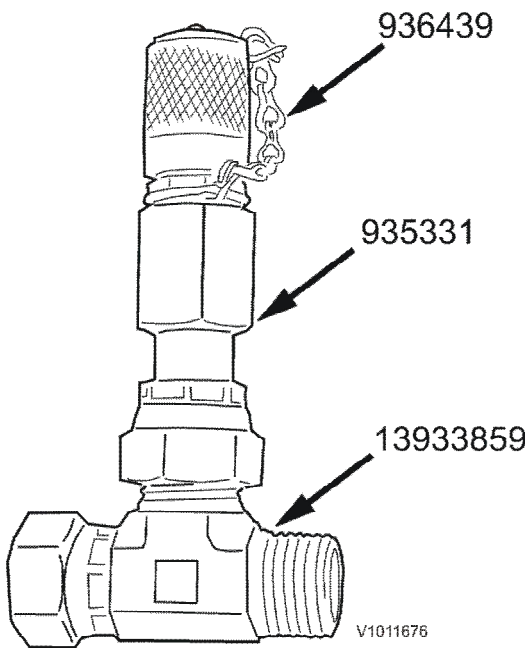


Figure 1

Document Title: E1711	Function Group: 080	Information Type: Service Information	Date: 5/19/2026
Profile: L150H Volvo			

E1711

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150H Volvo			

E1711

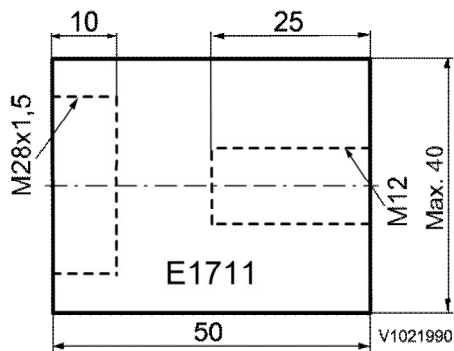


Figure 1
E1711

Document Title: E-2001	Function Group: 080	Information Type: Service Information	Date: 5/19/2026
Profile: L150H Volvo			

E-2001

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150H Volvo			

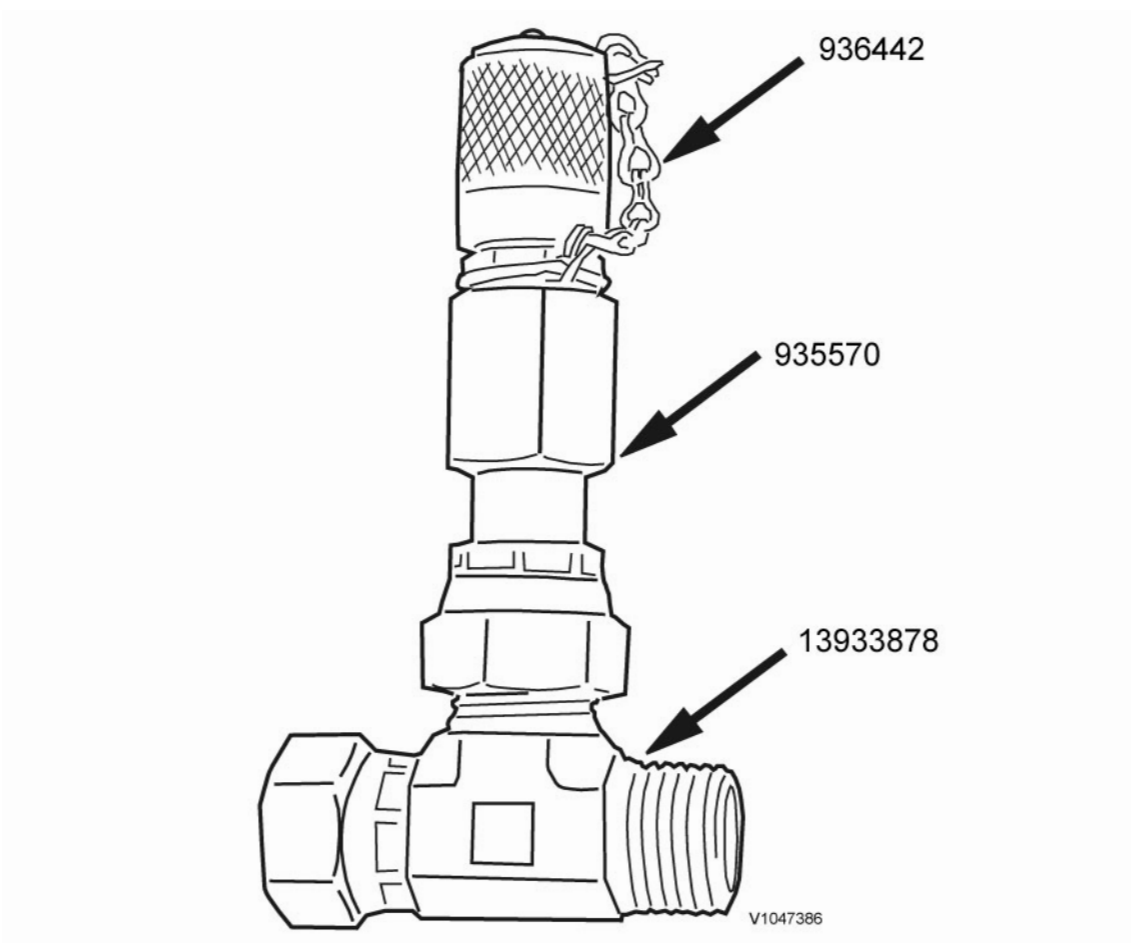


Figure 1

Document Title: E-2005	Function Group: 080	Information Type: Service Information	Date: 5/19/2026
Profile: L150H Volvo			

E-2005

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150H Volvo			

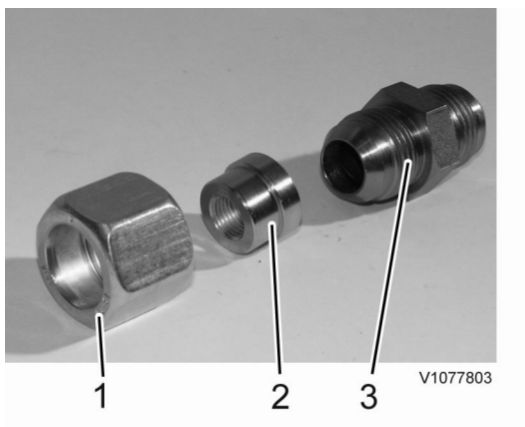


Figure 1

E-tool 2005

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

Document Title: E-2007	Function Group: 080	Information Type: Service Information	Date: 5/19/2026
Profile: L150H Volvo			

E-2007

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150H Volvo			



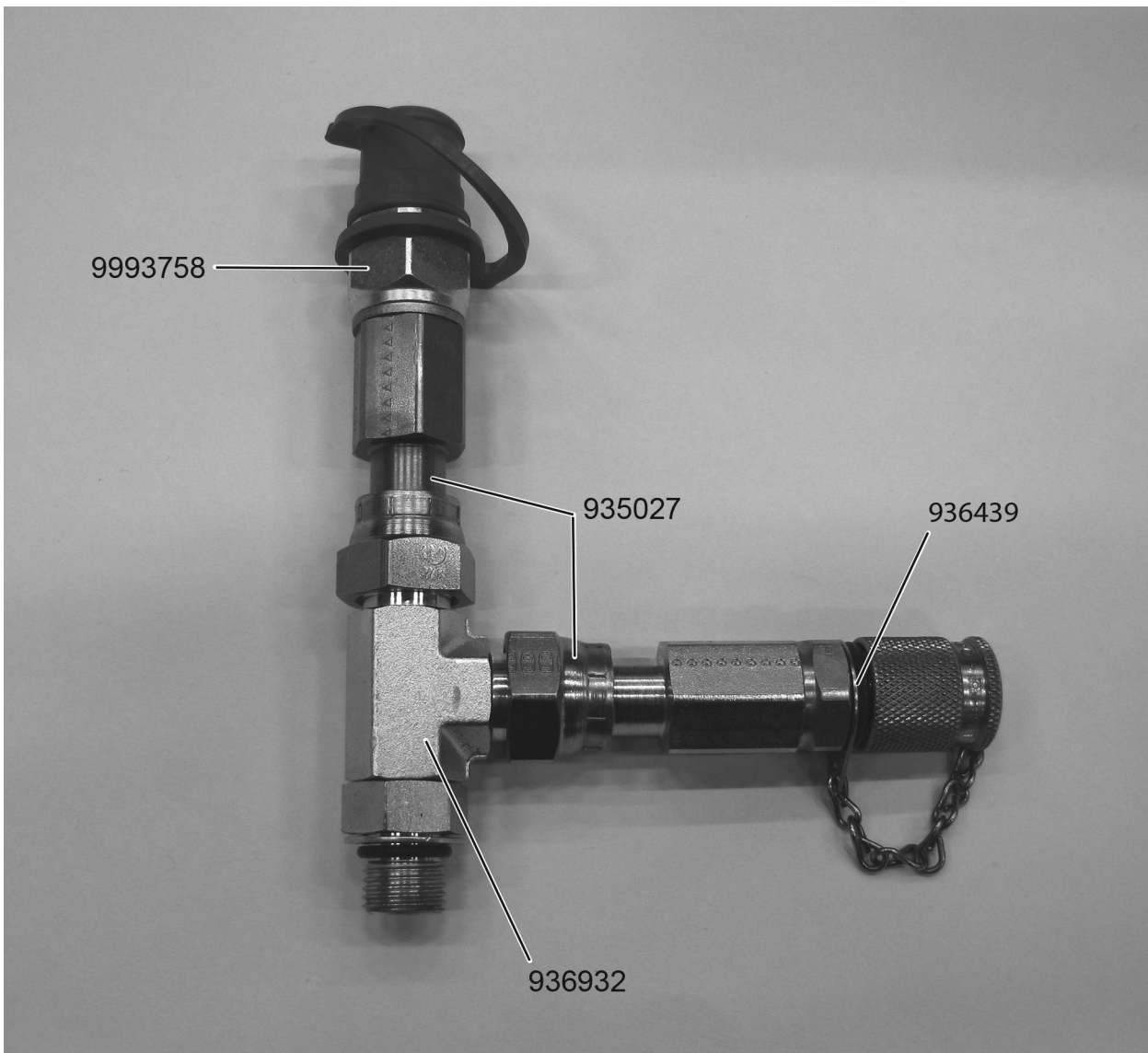
Figure 1

Document Title: E-2014	Function Group: 080	Information Type: Service Information	Date: 5/19/2026
Profile: L150H Volvo			

E-2014

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150H Volvo			



V1138633

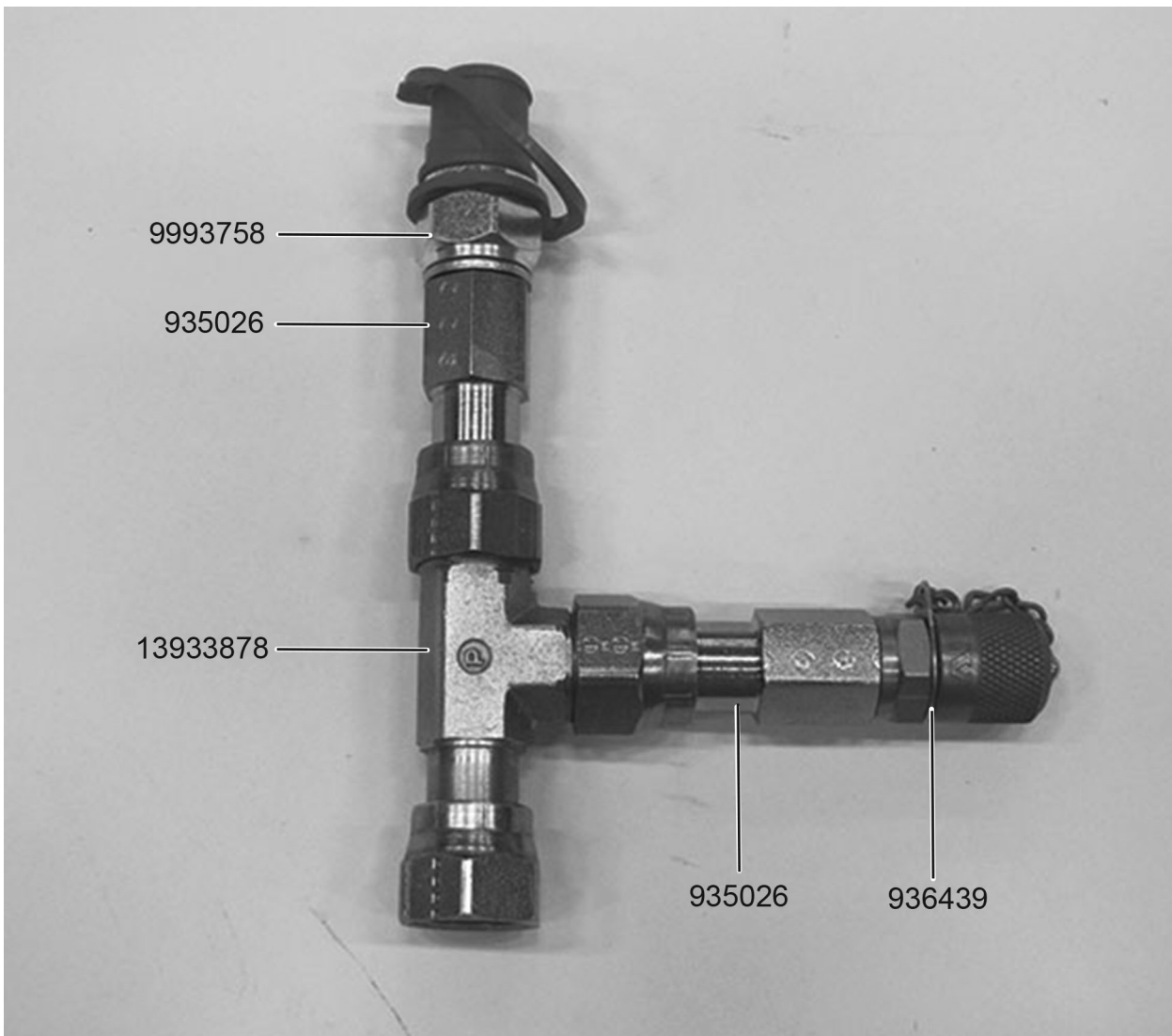
Figure 1

Document Title: E-2015	Function Group: 080	Information Type: Service Information	Date: 5/19/2026
Profile: L150H Volvo			

E-2015

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150H Volvo			



V1138746

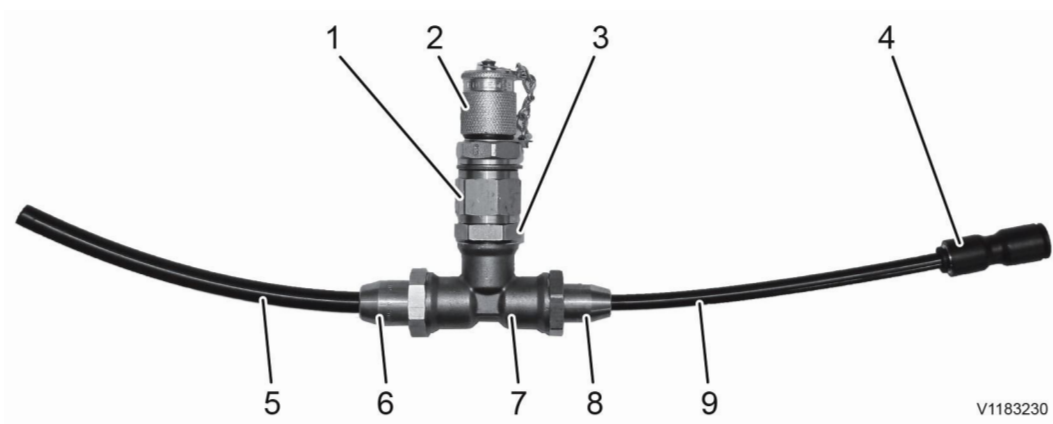
Figure 1

Document Title: E-2016	Function Group: 080	Information Type: Service Information	Date: 5/19/2026
Profile: L150H Volvo			

E-2016

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150H Volvo			



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-2017	Function Group: 080	Information Type: Service Information	Date: 5/19/2026
Profile: L150H Volvo			

E-2017

Showing Selected Profile

Valid for option/configuration			
Model	Option no.	Option	Configuration
L150H Volvo	53217072	Engine	D13J China IV
L150H Volvo	85625	Engine	D13J EU Stage IV
L150H Volvo	85626	Engine	D13J US Tier 4 final
L150H Volvo	87231	Engine	D13J US Tier 4 final
L150H Volvo	87233	Engine	D13J EU Stage IV
L150H Volvo	87258	Engine	D13J US Tier 4 final
L150H Volvo	87726	Engine	D13J US Tier 4 final
L150H Volvo	87738	Engine	D13J EU Stage V

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150H Volvo	Arvika	4001	6790
L150H Volvo	Arvika	6791	9000
L150H Volvo	Arvika	18001	26000

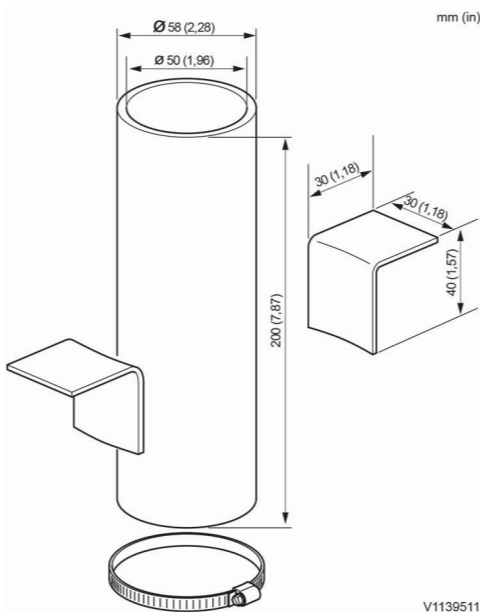


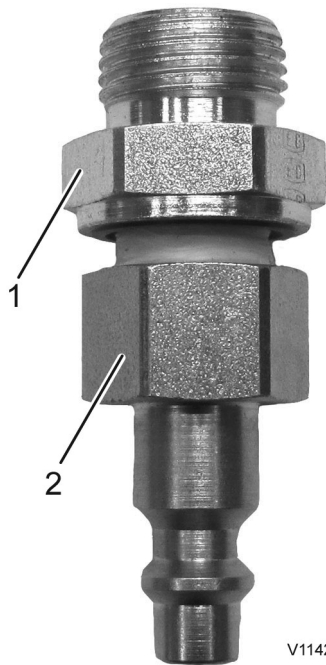
Figure 1

Document Title: E-2018	Function Group: 080	Information Type: Service Information	Date: 5/19/2026
Profile: L150H Volvo			

E-2018

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150H Volvo			



V1142422

Figure 1

1. 963948
2. 17420996

Document Title: E-2037	Function Group: 080	Information Type: Service Information	Date: 5/19/2026
Profile: L150H Volvo			

E-2037

Showing Selected Profile

Valid for option/configuration			
Model	Option no.	Option	Configuration
L150H Volvo	53217072	Engine	D13J China IV
L150H Volvo	85625	Engine	D13J EU Stage IV
L150H Volvo	85626	Engine	D13J US Tier 4 final
L150H Volvo	87231	Engine	D13J US Tier 4 final
L150H Volvo	87233	Engine	D13J EU Stage IV
L150H Volvo	87258	Engine	D13J US Tier 4 final
L150H Volvo	87726	Engine	D13J US Tier 4 final
L150H Volvo	87738	Engine	D13J EU Stage V

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150H Volvo	Arvika	4001	6790
L150H Volvo	Arvika	6791	9000
L150H Volvo	Arvika	18001	26000

Plate

Dimensions on the drawing are given in mm.

E-2037

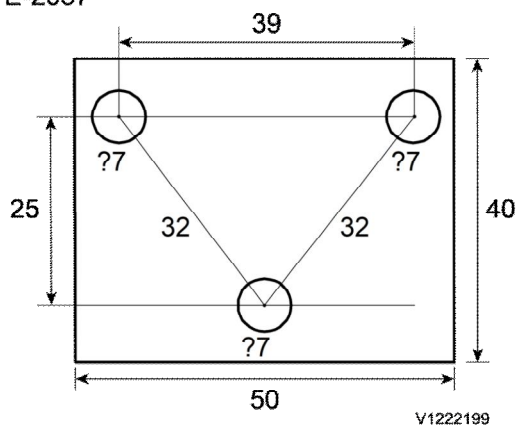


Figure 1

E-2037

Flat iron bar, thickness 6 mm

Document Title: E-2045	Function Group: 080	Information Type: Service Information	Date: 5/19/2026
Profile: L150H Volvo			

E-2045

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150H Volvo			

Installation tool

Dimensions on the drawing are given in mm.

E-2045

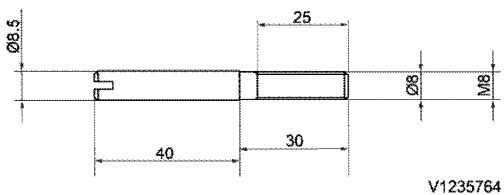


Figure 1

Material: S235JR

Document Title: 9993807 Lifting tool user instructions	Function Group: 080	Information Type: Service Information	Date: 5/19/2026
Profile: L150H Volvo			

9993807 Lifting tool user instructions

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150H Volvo			

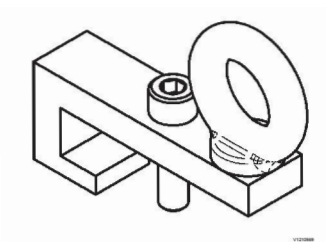


Figure 1
9993807 Lifting tool

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

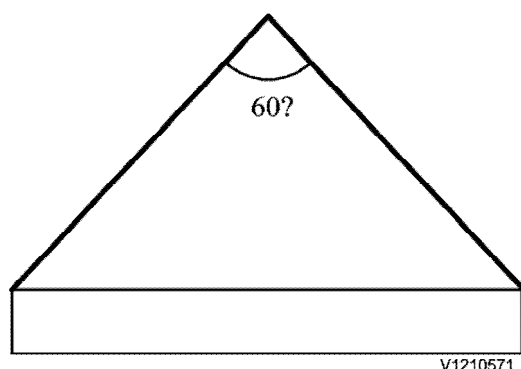
The lifting tools may only be used for the intended purpose. All other use is forbidden.

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.

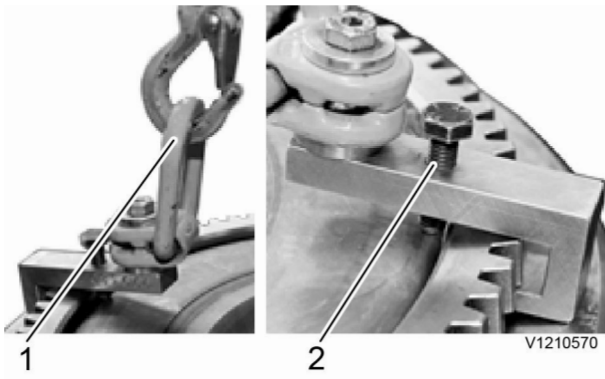


Figure 4

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.

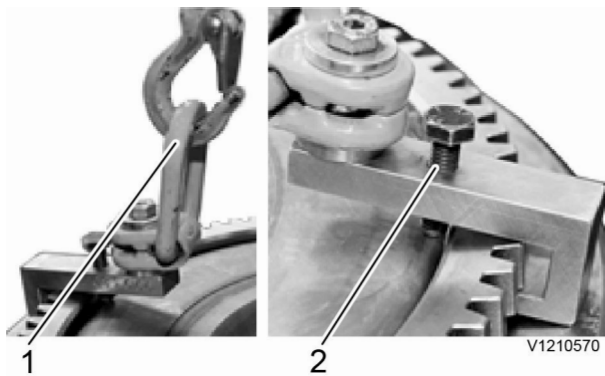


Figure 5

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: 5/19/2026
Profile: L150H Volvo			

11668007 Lifting tool user instructions

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150H 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.

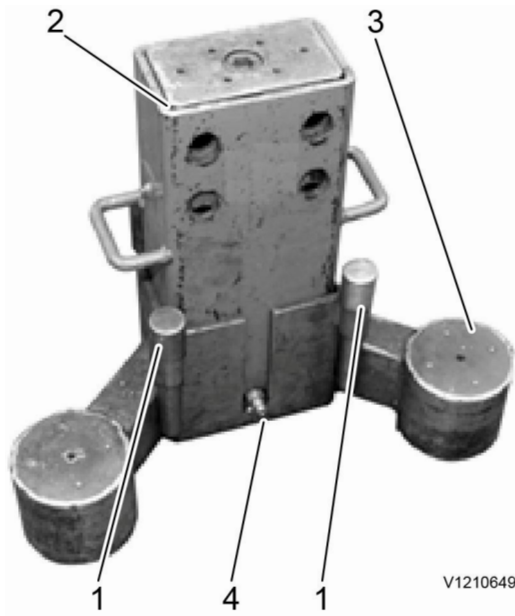


Figure 2

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.

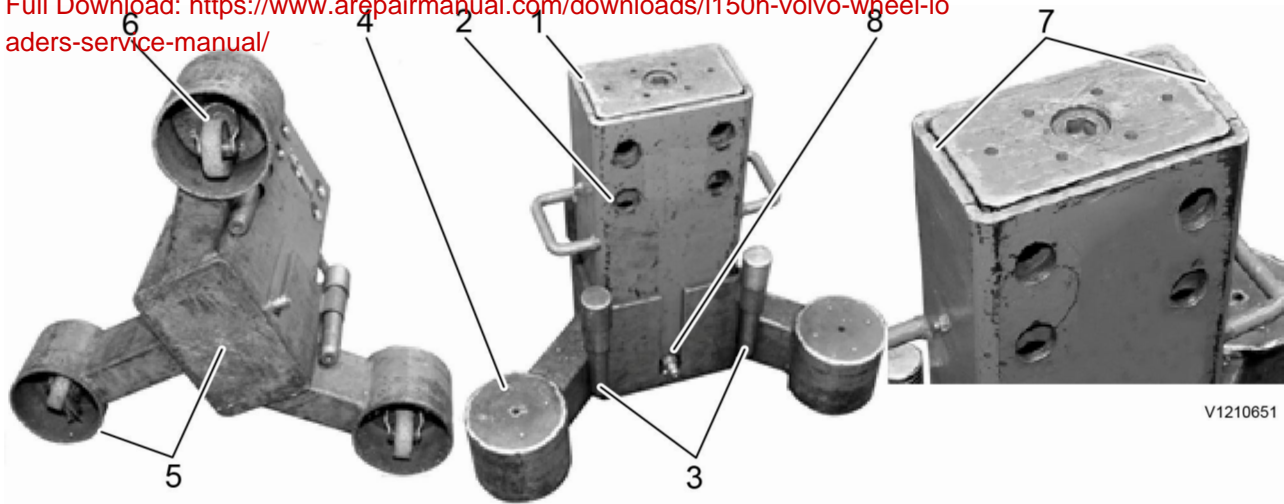
4. **Remove pump and lifting tool**

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.

Sample manual. Download All 4963 pages at:

<https://www.arepairmanual.com/downloads/l150h-volvo-wheel-loaders-service-manual/>