



Fig. 12. Gearbox

VOLVO
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Gearbox

<u>Fig.</u>	<u>Description</u>	<u>Part No.</u>	<u>Qty.</u>
	<u>GEARBOX</u>		
	<u>Gearbox, H4, complete</u>	45078 ¹⁾	1
	<u>Gearbox, H5, complete</u>	254104 ²⁾	1
	<u>Gearbox, H6, complete</u>	254144 ³⁾	1
12- 1	. Housing for gearbox	87004	1
12- 2	. . Plug for oil filling and draining	190053	2
12- 3	. Cover for main drive pinion ball bearing	87087	1
12- 4	. . Gasket	87088	1
12- 5	. . Bolt	902279	3
12- 6	. . . Spring washer	906990	3
12- 7	. Retainer for main shaft ball bearing, for gearbox No. 45078	87418	1
	. Retainer for main shaft ball bearing, for gearbox No. 254104 and 254144	89730	1
12- 8	. . Oil seal for main shaft	19933	1
12- 9	. . Gasket for retainer	87089	1
12-10	. . Bolt for retainer No. 87418	902303	4
	. . Bolt, length = 19 mm, for retainer No. 89730	902303	3
	. . Bolt, length = 45 mm, for retainer No. 89730	902309	1
12-11	. . . Spring washer	906993	4
12-12	. <u>Main drive pinion (primary shaft)</u>	88075	1
12-13	. . Ball bearing, SKF: 6206 ZNR	19568	1
12-14	. . . Lock ring	87562	1
12-15	. Gear on countershaft, for gearbox No. 45078 and 254104	88076	1
	. Gear on countershaft, for gearbox No. 254144	655646	1
12-16	. . Roller for gear bearing, SKF: L 2,5 x 19,8	19567	48
12-17	. . . Spacer sleeve for gearbox No. 45078 and 254104	87175	1
12-18	. . . Spacer ring for gearbox No. 45078 and 254104	87176	2
	. . . Spacer ring for gearbox No. 254144	87176	4
12-19	. . Thrust washer for gear	87078	2

1. Up to chassis No. 72000.

2. For chassis Nos. 72001-130562.

3. From chassis No. 130563 onwards.

Gearbox

<u>Fig.</u>	<u>No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Qty.</u>
	12-20	. <u>Countershaft</u> (secondary shaft)	87085	1
	12-21	. . Lock (also for reverse gear shaft)	70442	1
	12-22	. . . Screw	902278	1
	12-23 Spring washer	906990	1
	12-24	. Reverse gear, complete, for gearbox No. 45078 and 254104	88078	1
		. Reverse gear, complete, for gearbox No. 254144	655649	1
	12-25	. . Bushing	18133	2
	12-26	. Thrust washer for reverse gear	87079	2
	12-27	. Shaft for reverse gear	87086	1
	12-28	. <u>Main shaft</u> (tertiary shaft), for gearbox No. 45078	88077	1
		. Main shaft (tertiary shaft), for gearbox No. 254104 and 254144	89733	1
	12-29	. . Roller (forward bearing), for main shaft, SKF: 228718	181120	14
	12-30	. . Ball bearing, intermediary, for main shaft, SKF: 6206 ZNR, for gearbox No. 45078	19568	1
	12-31	. . . Lock ring, for gearbox No. 45078	87562	1
	12-32	. . Ball bearing, rear, for main shaft, SKF: 6005 X, for gearbox No. 45078	18559	1
		. . Ball bearing, rear, for main shaft, SKF: 6206 ZNR, for gearbox No. 254104 and 254144	19568	1
		. <u>Synchronizing device</u> , consisting of:		
	12-33	. . Hub for synchronizing device	88083	1
	12-34	. . Flange for synchronizing cone	87081	3
	12-35	. . . Spring ring	86713	2
	12-36	. . Synchronizing cone	87073	2
	12-37	. . Sleeve for 2nd and 3rd speed gears	87071	1
	12-38	. . Lock ring for synchronizing hub, thickness = 2,00 mm	87562 ¹⁾	1
		thickness = 2,10 mm	87832 ¹⁾	1
		thickness = 2,15 mm	87833 ¹⁾	1
		thickness = 2,25 mm	87834 ¹⁾	1
		thickness = 2,30 mm	87835 ¹⁾	1
	12-39	. Gear with bushing	88080	1
	12-40	. Gear for 1st speed and reverse, for gearbox No. 45078 and 254104	88082	1
		. Gear for 1st speed and reverse, for gearbox No. 254144	655647	1

1. Alternatives.

		<u>Gearbox</u>	
<u>Fig.</u>	<u>Description</u>	<u>Part No.</u>	<u>Qty.</u>
<u>No.</u>			
12-41	. <u>Speedometer gear</u> , larger, 5 teeth, for gearbox No. 45078	88115	1
	. Speedometer gear, larger, 5 teeth, for gearbox No. 254104	89734	1
	. Speedometer gear, larger, 5 teeth, for gearbox No. 254144	655714	1
12-42	. <u>Companion flange</u> for propeller shaft	87614	1
12-43	. . Bolt	100255 ¹⁾	1
12-44	. . . Spring washer	906993 ¹⁾	1
12-45	. . . Base washer	18721 ¹⁾	1
	. . Nut	951213 ²⁾	1
	. . . Washer	89719 ²⁾	1
	. . . Spring washer	906998 ²⁾	1
12-46	. Control fork for 2nd and 3rd speeds	87147	1
12-47	. Control fork for 1st speed and reverse	86535	1
12-48	. Cap, forward, for control rails	70473	1
12-49	. . Bolt	902278	2
12-50	. . . Spring washer	906990	2
12-51	. Cap, rear, with interlock ball and spring, for control rails	86699	1
12-52	. . Bolt	100233	2
12-53	. . . Spring washer	906990	2
12-54	. Interlock ball between gear rails	70472	1
12-55	. <u>Cover</u> for gearbox	87002	1
12-56	. . Gasket	87090	1
12-57	. . Bolt, length = 22 mm	902280	6
12-58	. . Bolt, length = 35 mm	902283	2
12-59	. . . Spring washer	906990	8
12-60	. Cover (metal), round gear lever	87734	1
12-61	. Leaf spring for gear lever	87735	1
12-62	. . Nut plate for leaf spring	87736	1
12-63	. . Bolt for leaf spring	902226	2
12-64	. . . Spring washer	906985	2
	. Rubber cushion for rear engine anchorage, for gearbox No. 254104 and 254144	89731	1

1. In conjunction with gearbox No. 45078.

2. In conjunction with gearbox No. 254104 and 254144.

Gearbox

<u>Fig.</u>	<u>Description</u>	<u>Part No.</u>	<u>Qty.</u>
12-65	<u>Gear lever</u> , complete	87822	1
12-66	. Lock pin	87731	1
12-67	Spring for gear lever	87732	1
12-68	. Washer over spring	87733	1
12-69	Knob for gear lever	88449	1
	Rubber boot for cover, blue	94739 ¹⁾	1
	Rubber boot for cover, red	88288 ¹⁾	1
	Rubber boot for cover, grey	96588 ¹⁾	1
	. Screw, self-tapping	106916	2
	. . Washer	120126	2
	<u>Speedometer gear</u> , larger, for gearbox No. 45078	88115 ²⁾	1
	Speedometer gear, large, for gearbox No. 254104	89734 ²⁾	1
	Speedometer gear, large, for gearbox No. 254144	655714 ²⁾	1
	Speedometer gear, small	88116 ³⁾	1
	Speedometer gear, small	655715 ⁴⁾	1

1. Alternatives.
2. Included in complete gearbox.
3. Up to chassis No. 130942.
4. From chassis No. 130943 onwards.

Gearbox mountings

<u>Description</u>	<u>Part No.</u>	<u>Qty.</u>
<u>GEARBOX MOUNTINGS</u>		
<u>Gearbox mountings in conjunction with gearbox No. 45078</u>		
Bolt, gearbox - flywheel housing	105137	4
. Lock washer	11945	4
<u>Rubber cushion under gearbox</u>	87580	1
. Bolt, rubber cushion - gearbox	902278	2
. . Spring washer	906990	2
Rubber bushing	87739	1
Bolt in gearbox, early production	87738 ¹⁾	1
. Castellated nut, early production	10511	1
. . Base washer, early production	18719	1
. . Cotter pin, early production	907835	1
Bolt in gearbox, late production	89644	1
. Base washer	18701	1
<u>Support plate for gearbox</u>	87598	1
. Nut	906577	2
. Spring washer	906993	2
Bolt, support plate - body	902278	8
. Spring washer	906990	8
<u>Gearbox mountings in conjunction with gearbox No. 254104 and 254144.</u>		
Bolt, gearbox - flywheel housing	105137	4
. Lock washer	951701	4
<u>Rubber cushion (round) for gearbox</u>	89731 ²⁾	1
<u>Support plate for gearbox</u>	89743	1
. Bolt, support plate - rubber cushion	921680	1
. . Nut	951756	1
. . Spring washer	906996	1
. Bolt, support plate - body	902278	4
. Spring washer	906990	4

1. Replaced by bolt No. 89644.

2. Included in complete gearbox.