

Component	Lubricant	Packaging	Art.no./ Designation
SECTION 0. GENERAL			
Sealing rings:			
Rubber (synthetic)	Bushing paste	tin 100 g	1161153-0
Leather	Lube grease Li/EP	tube 80 g	1161241-3
		cartridge 400 g	1161251-2
Felt - Saturated in hot oil	Engine or Gear oil		
SECTION 2. ENGINE			
Camshaft	Paste MOS ₂	spray 450 g	1161006-0
Tappets	Paste MOS ₂	spray 450 g	1161006-0
Cylinder liner - sealing:			
All	Special	bottle 0.5 l	1161249-6
Sealing ring cylinder block - cylinder head	Fitted dry		
Cleaning plug (teflon)	Fitted dry		
Liner - liner step	Silicone <u>0.8 mm string</u>	tube (special)	1161277-7
Timing gear cover gasket	Silicone	cartridge 300 ml	1161233-4
Thermostat-regulated fan	Silicone oil-Viscosity cSt		
	9000	1/2 l	1161288-4
	12500	1/2 l	1161307-2
	16500	1/2 l	1161308-0
	20000	1/2 l	1161309-8
	30000	1/2 l	1161310-6
Hoses, coolant	Bushing paste	tin 100 g	1161153-0
Coolant pump - belt tensioner	Special grease	sachet 20 g	1161140-7
		tube 225 g	1161121-7
Holset Turbo:			
-shaft end, piston ring grooves	Bolting paste	tin 250 g	1161035-9
-bolts - turbine housing	Bolting paste	tube 50 g	1161273-6
SECTION 3. ELECTRICAL			
Battery terminals	Rustproofing	aerosol 0.4 l	1161038-3
Alternator:			
Slip bearings	Light engine oil	bottle 1 l	1343306-5
Angle ball bearing	Lube grease Li/EP	tube 80 g	1161241-3
Alternator	Special grease	tube 125 g	1161236-3

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Starter motor:			
Bushings	Light engine oil	bottle 1 l	1343306-5
Other parts	Silicone grease (-60 to +100°C)	tube 50 g	1161326-2
Distributor:			
Lube felt	Light engine oil	bottle 1 l	1343306-5
Bushings	Light engine oil	bottle 1 l	1343306-5
Breaker cam, abutment	Lube grease Li/EP	tube 80 g	1161241-3
Wiper motor	Special grease (-50 to +80°C)	tube 125 g	1161236-3
SECTION 4			
Group 41. Clutch			
Seal, control	Lube grease Li/EP	tube 80 g	1161241-3
Bushing, pedal carrier	Lube grease Li/EP	tube 80 g	1161241-3
Master cylinder and control cylinder	Brake fluid SAE J 1703	1 l 5 l 25 l	1128748-9 1128749-7 1128750-5
Clutch servo:			
Air-operated	Silicone grease	tube 50 g	1161326-2
Hydraulic-operated	Brake fluid SAE J 1703	1 l 5 l 25 l	1128748-9 1128749-7 1128750-5
	Synthetic Molybdenum	tube 50 g	1161037-5
Clutch levers	Lube grease Li/EP	tube 80 g	1161241-3
Thrust plate slide surfaces	Lube grease Li/EP	tube 80 g	1161241-3
Plate hub, shaft	Heat-resistant	tin 250 g	1161311-4
Group 42. Torque converter			
Bearings	Engine oil	bottle 1 l	1343306-5
Splines	Heat-resistant	tin 250 g	1161311-4
Automatic transmission rubber bushings	Bushing paste	tin 100 g	1161153-0
Automatic transmission flange seal	Synthetic Molybdenum	tube 50 g	1161037-5

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<u>Group 43. Gearbox</u>			
Shift frame	Lube grease Li/EP	tube 80 g	1161241-3
Remote control	Lube grease Li/EP	tube 80 g	1161241-3
Control cylinder housing	Rustproofing	bottle 1 l	282036-3
SR 61:			
Selector fork bushing	Lube grease Li/EP	tube 80 g	1161241-3
Input shaft needle bearing	Special grease	tin 100 g	1161003-7
Gasket material	Silicone grease	cartridge 300 ml	1161240-5
<u>Group 45. Propeller shaft</u>			
Rollers	Molybdenum disulphide grease	tin 250 g	1161078-9
<u>Group 46. Rear axle</u>			
Flange, nut	Molybdenum disulphide grease	tin 250 g	1161078-9
Differential - Wheel	Glidlack	spray 400 ml tin 500 g	1161327-0 1161008-6
<u>SECTION 5. BRAKES</u>			
Hydraulic master cylinder and control cylinder	Brake fluid SAE J 1703	1 l 5 l 25 l	1128748-9 1128749-7 1128750-5
Hydrovac airpak:			
Hydraulic-plunger	Synthetic-Molybdenum	tube 50 g	1161037-5
Servo-air	Silicone grease	tube 50 g	1161326-2
Vacuum pump	Engine oil		
Equalizing valve	Brake fluid SAE J 1703	1 l 5 l 25 l	1128748-9 1128749-7 1128750-5
Pedal journalling	Lube grease Li/EP	tube 80 g	1161241-3
Maxibrake	Lube grease Li/EP	tube 80 g	1161241-3
Wedge brakes, piston cylinders	Lube grease Li/EP	tube 80 g	1161241-3
Z-cam housing components	Lube grease Li/EP	tube 80 g	1161241-3
Valves (compressed air)	Silicone grease	tube 50 g	1161326-2
Pivot pin - Roller (TB)	Bolting paste	tin 225 g	1161035-9
Contact area, shoe Z-cam	Bolting paste	tin 225 g	1161035-9

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<u>SECTION 6. STEERING</u>			
King-pin journalling	Lube grease Li/EP	tube 80 g	1161241-3
Ball joint steering rod	Lube grease Li/EP	tube 80 g	1161241-3
Steering column, splines	Molybdenum disulphide grease	tin 250 g	1161078-9
Servo cylinder	ATF	can 5 l	282996-8
Steering gear, mechanical	Rear axle oil GL 5		
Steering gear, power:			
Loose balls and rollers	Bushing paste	tin 100 g	1161153-0
Other parts	ATF	can 5 l	282996-8
Servo pump	ATF	can 5 l	282996-8
<u>SECTION 7. HUB</u>			
Wheel bearings: greased	Lube grease Li/EP	cartridge 400 g	1161251-2
Wheel bearings: oiled, front	Engine oil		
Wheel bearings, oiled, rear	Rear axle oil GL 5		
<u>SECTION 8. BODY</u>			
Wiper shaft	Lube grease Li/EP	tube 80 g	1161241-3
Rearview mirror retainer	Lube grease Li/EP	tube 80 g	1161241-3
Door hinges	Lube grease Li/EP	tube 80 g	1161241-3
Door stops	Lube grease Li/EP	tube 80 g	1161241-3
Seat rails	Lube grease Li/EP	tube 80 g	1161241-3
Lock buttons	Bushing paste	tin 100 g	1161153-0
Lock cylinders	Lock oil/All-round spray	aerosol 0,18 l	1161036-7
Striker plates	Bushing paste	tin 100 g	1161153-0
Lock lugs	Bushing paste	tin 100 g	1161153-0
<u>SECTION 9. MISCELLANEOUS</u>			
Hydraulic pump:			
Driven splines	Molybdenum disulphide grease	tin 250 g	1161078-9
Other parts	Hydraulic oil	barrel 208 l can 4 l bottle 1 l	1161114-2 1161115-9 1161116-7

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Robson drive:			
Joints	Lube grease Li/EP	tube 80 g	1161241-3
Other parts	Hydraulic oil	barrel 208 1 can 4 1 bottle 1 1	1161114-2 1161115-9 1161116-7
Bogie lift:			
Joints	Lube grease Li/EP	tube 80 g	1161241-3
Other parts	Hydraulic oil	barrel 208 1 can 4 1 bottle 1 1	1161114-2 1161115-9 1161116-7
Fifth wheels	Lube grease Li/EP	cartridge 400 g	1161251-2
late	Lube grease Li/EP	cartridge 400 g	1161251-2
Cranes:			
Joints	Lube grease Li/EP	tube 80 g	1161241-3
Other parts	Hydraulic oil	barrel 208 1 can 4 1 bottle 1 1	1161114-2 1161115-9 1161116-7
Trailer coupling	Lube grease Li/EP	cartridge 400 g	1161251-2
Tipper cylinder:			
Pin, ball	Lube grease Li/EP	tube 80 g	1161241-3
Joints	Lube grease Li/EP	tube 80 g	1161241-3
Other parts	Hydraulic oil	barrel 208 1 can 4 1 bottle 1 1	1161114-2 1161115-9 1161116-7

Lubricants for central lubrication

For vehicles with central lubrication we recommend the following:

Grease lubrication

Li/mo S₂ grease NLGI No. 1, that is grease on a lithium base with molybdenum disulphide additive and with consistency NLGI No. 1.

Oil lubrication

Oil type Rear axle oil
 Quality API-GL-5 (MIL-L-2105 B or C)
 Viscosity SAE 80 W/90

Lubricant for climate unit

Vacuum pump:

Filler station	Vacuum pump oil	bottle 0.5 l	1160049-1
Air conditioning compressor	AC compressor oil (deparaffined bottle)	bottle 0.5 l	1160048-3

Freon 12 (dichlordifluormethane) is used as the cooling medium.

The following can be purchased from Volvo

	<u>Packaging</u>	<u>Art.no.</u>
Engine oil SAE 15W/40 Volvo Drain Specification	barrel 208 l	1161278-5*
Final drive oil SAE 85W/140 GL 5	barrel 208 l	1161279-3*
Gearbox oil SAE 80W/90 GL 1	barrel 208 l	1161280-1*
SAE 80W GL 4 (only ZF gearboxes)	barrel 208 l	1161281-9*
Thermo oil (synthetic) for gearboxes SAE 10W/50	drum 25 l	1161243-9
	barrel 208 l	1161245-4

* Not kept in stock for direct delivery.

1. Introduction

The purpose of this document is to provide a detailed description of the power joint assembly and its operation. This document is intended for use by maintenance personnel and is not to be used as a substitute for the manufacturer's instructions.

2. Description of the Power Joint

The power joint is a mechanical device used to transmit torque between two shafts. It consists of a housing, a drive shaft, a driven shaft, and a set of interlocking teeth. The drive shaft is connected to the input shaft of the power source, and the driven shaft is connected to the output shaft of the power source. The interlocking teeth ensure that the torque is transmitted smoothly and efficiently.

3. Installation and Operation

The power joint should be installed in a clean, dry environment. The drive shaft and driven shaft should be properly aligned and secured. The interlocking teeth should be lubricated with a suitable oil. The power joint should be operated at the rated speed and torque. The manufacturer's instructions should be followed for all installation and operation details.

* Not part of stock kit
Direct delivery