



P-460-V-I Parts Manual-Power Pack



Model:	P-460-V-I
Serial number:	P-460-V-I-035-0423
Year Of manufacture:	2024
Revision:	-

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P-460-V-I PARTS MANUAL

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For extra information as to adjustments, maintenance and repair, please contact the technical department of your supplier.

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Remark:

Hydraulic fittings are coded according to the Parker Hannifin standard, translation can be found in the Parker 4100-7 "Industrial Tube Fittings Europe" manual

IMPORTANT:

Important safety instructions are marked as shown below:

CAUTION



*The meaning of this safety warning is as follows:
Attention! Become alert! Your safety is involved.*

If this situation is not avoided, it MAY result in minor or moderate injury.

WARNING



*The meaning of this safety warning is as follows:
Attention! Become alert! Your safety is involved.*

If this situation is not avoided, it COULD result in injury or even death.

DANGER



*The meaning of this safety warning is as follows:
Attention! Become alert! Your safety is involved.*

If this situation is not avoided, it WILL result in injury or even death.

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1. Preface

This parts manual has been written for the users of **PILECO INC.** hydraulic power units. The parts manual explains which parts are used in the hydraulic power unit. If needed parts can be looked up in the parts manual for reordering.

One copy of the part manual will be delivered with the hydraulic power pack. The document should be stored in a safe place. If needed an extra copy can be ordered at your local dealer. For ordering of parts model number, equipment serial number and part number are needed. Please have these numbers when ordering the parts.

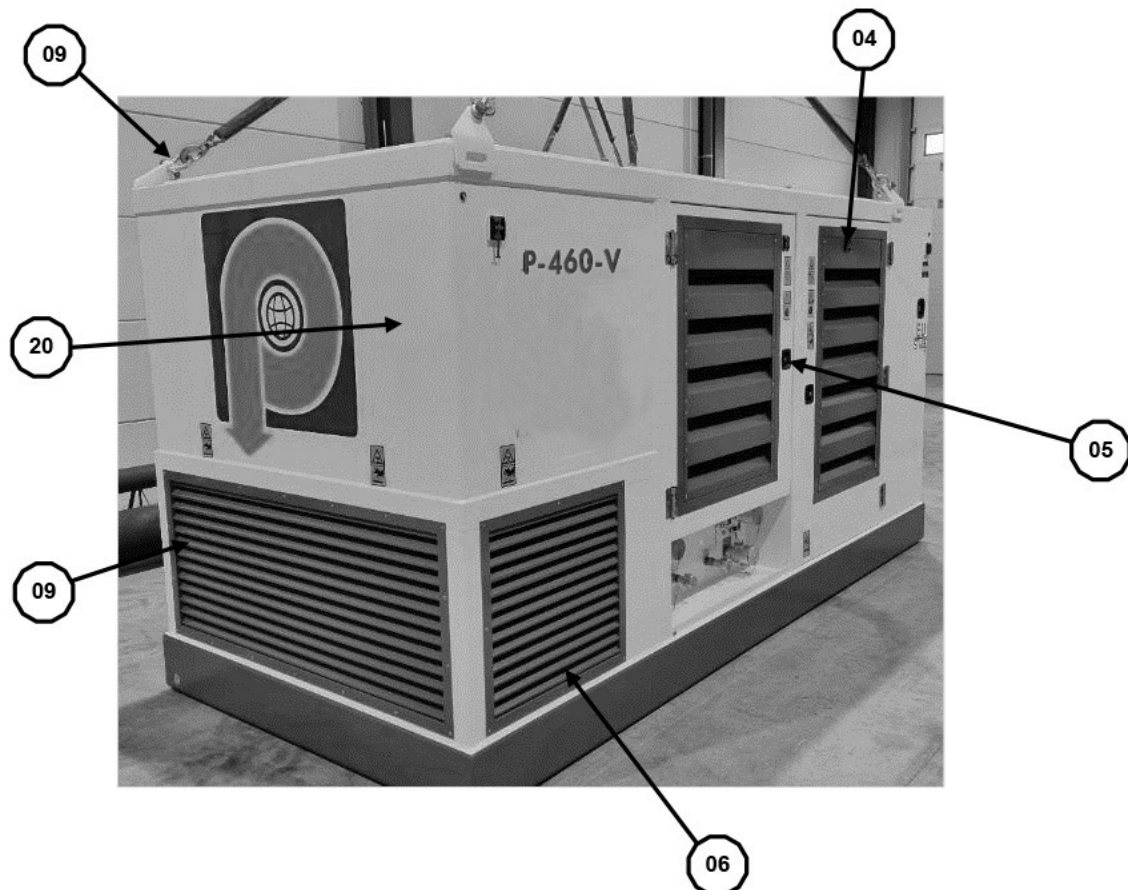
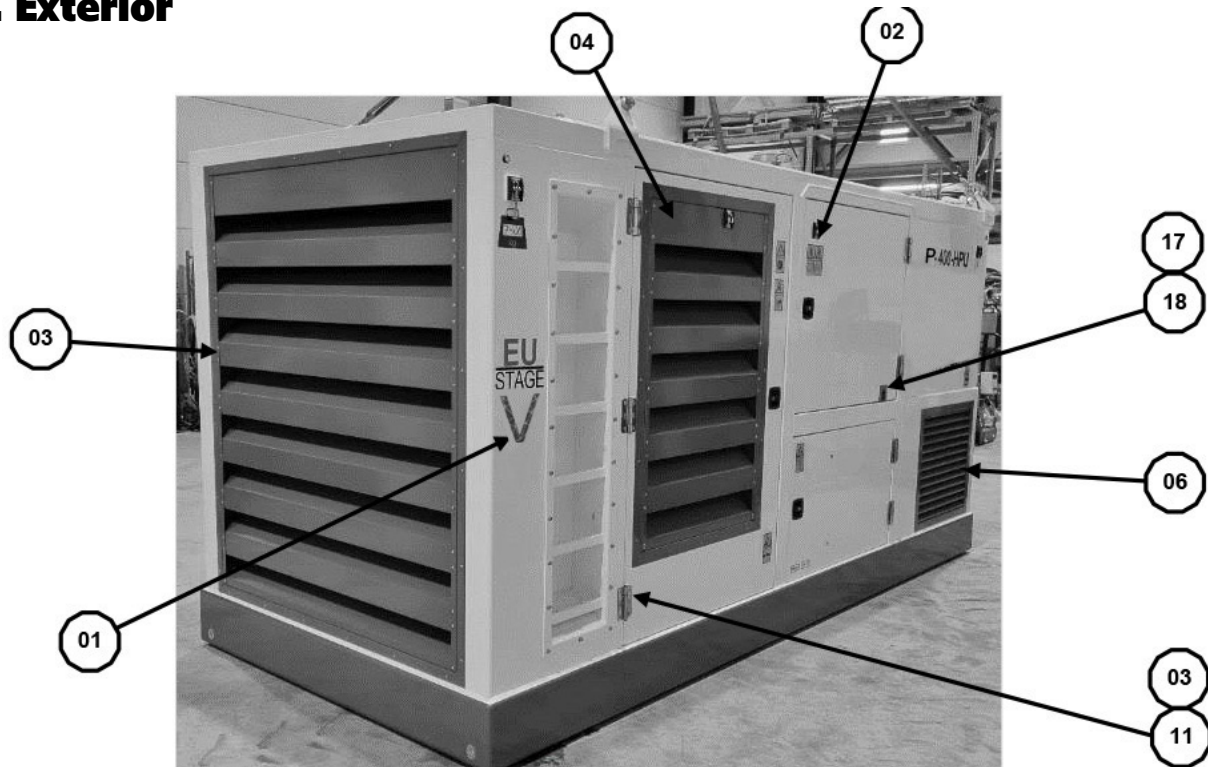
If problems arise which are beyond the scope of this manual, please contact your dealer. They are prepared to assist you to make the best use of your equipment. Please have the following at hand:

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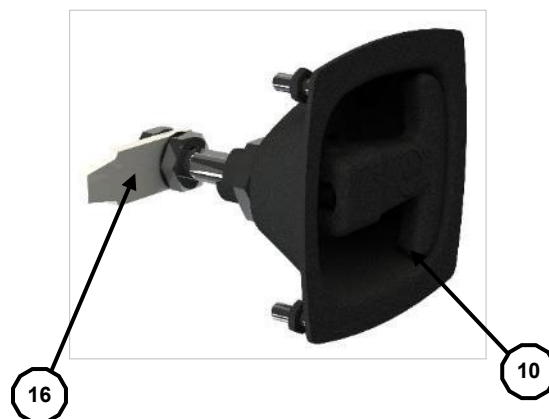
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2. Exterior



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HPU Exterior				
Item	QTY	Description	Part no.	
01	1	Logo Stage V	1000196	
02	1	CE Marking sticker set	1000230	
03	1	Air vent 1500 x 1700	1000737	
04	2	Air vent 800 x 1300	1000738	
05	1	Air vent 800 x 1100	1000739	
06	2	Air vent 700 x 620	1000262	
07	1	Air vent 1590 x 620	1000746	
08	4	Door holder set	1000286	
09	4	H-Shackle	1000264	
10	5	Door lock	1000125	
11	10	Door hinge spacer	1000123	
12	10	Door hinge	1000094	
13	1	Rain cap Stainless	1000704	
14	1	Emergency stop button complete	1000142	
15	4	Warning lights	1000235	
16	5	Lock plate	1000268	
17	1	Cable feedthrough gasket	1000127	
18	1	Cable feedthrough cover	1000126	
19	40	Door seal-clamp profile	1000332	(order by meter)
20	1	Frame complete	1000994	



1000332 - Door seal-clamp profile

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3. Ce Marking set



See Owner's manual for marking descriptions



Service Report Power Pack

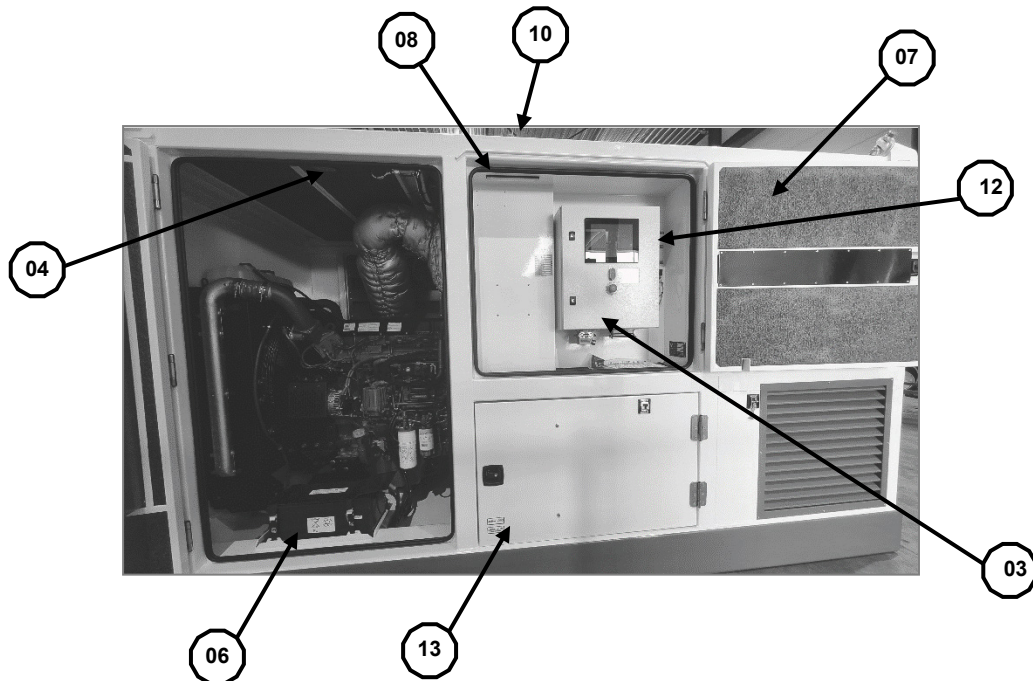
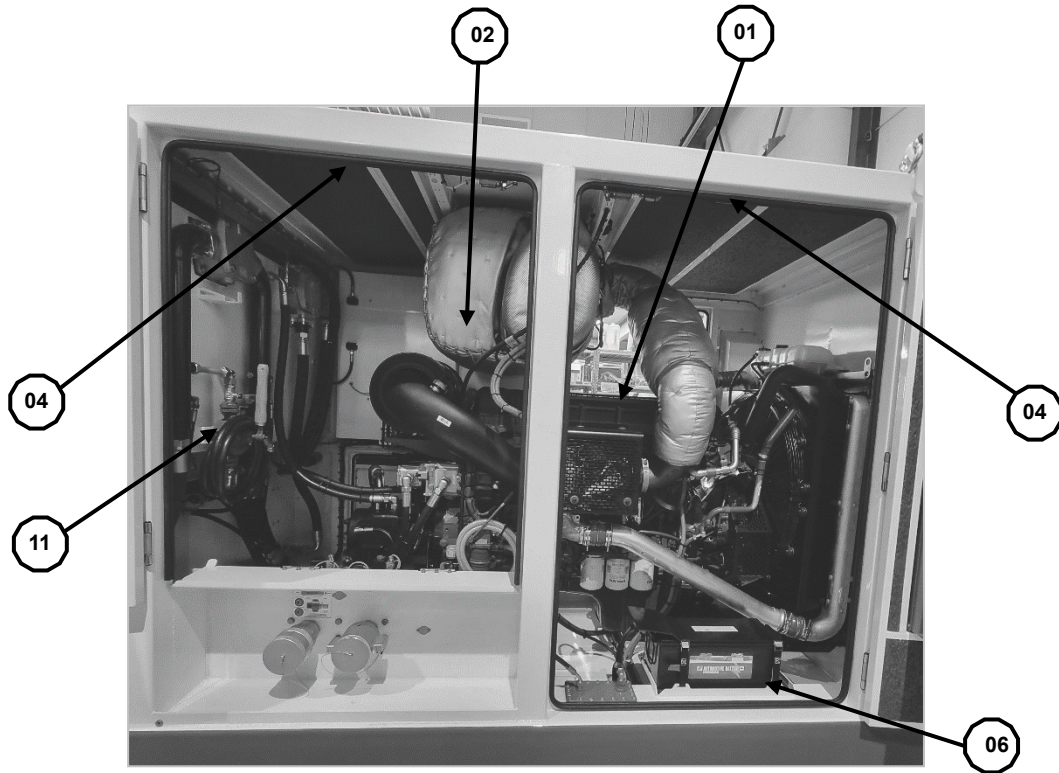
Date	
Hours	
Machine no.	
Next oil change	Hrs
Filter hydraulic	Hrs
Filter air/fuel	Hrs
Cooling fluid	°C
Engine oil	
Engine coolant	
Hydraulic oil	

info@vigorplm.com

1000422-Service Sticker HPU

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4. Interior



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Figure 1 work light 1000319



Figure 2 Sound insulation set 1000736



Figure 3 mains relay 1000277



Figure 4 Vibration damper 1000694

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HPU Interior				
Item	QTY	Description	Part no.	
01	1	Volvo TAD1384VE	1000831	
02	1	Exhaust isolation kit V-460-I	1001022	
03	1	Control panel	1000664	
04	3	Work light LED 10-30VDC/15W	1000319	
05	4	Vibration damper	1000694	
06	2	Starter Battery	1000136	
07	1	Sound Insulation set V-400V-HPU	1000736	(Only as set)
08	1	Panel Light LED 12/24V 3,5W	1000320	
09	1	Mains Relay	1000277	
10	1	Exhaust rain cap	1000704	
11	1	Manual pump hydraulic oil	1000575	
12	1	Level Gauge	1000420	
13	1	Fuel Filler cap	1000241	

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5. Hydraulic

Drive pump

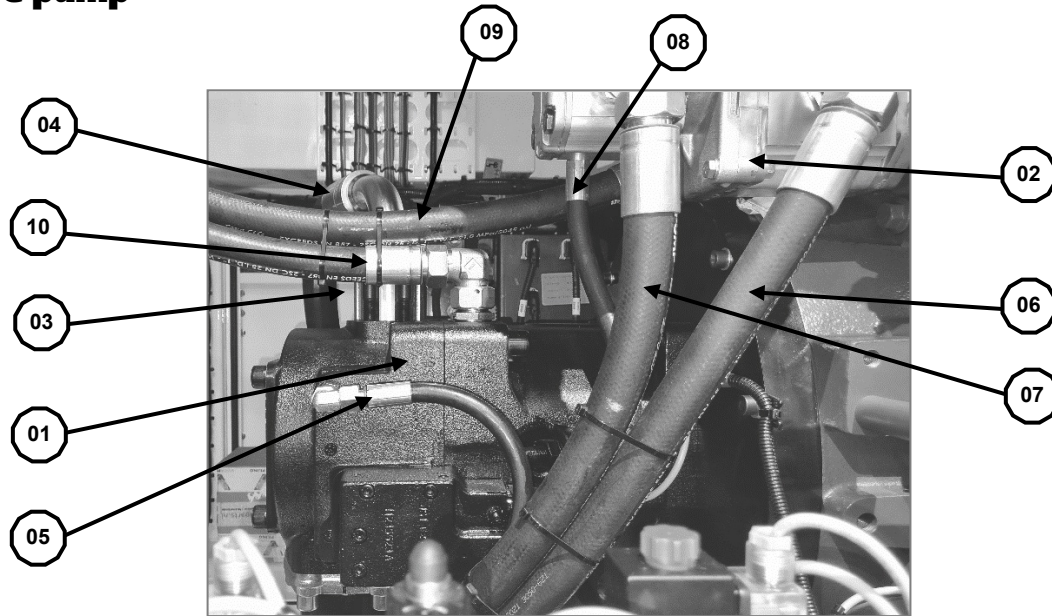


Figure 5 Main pumps

Item	QTY	Description	Part no.
01	1	D1P 260 pump	1000936
02	1	Gear pump tandem 17/44cc	1000937
03	1	SAE Check valve	1000495
04	1	Hose 1 1/2" R15-38S-11/2"90SAE6 L=1820	1001025
05	1	Hose 3/8" 2SC-12L-12L90 L=1860	1001035
06	1	Hose 1" 2SC-28L-28L90 L=1810	1001031
07	1	Hose 1" 2SC-28L-28L90 L=2050	1001029
08	1	Hose 1/2" 2SC-15L-15L90 L=1850	1001030
09	1	Hose 1" 2SC-28L-28L90 L=2860	1001028
10	1	Hose 1" 2SC-28L-28L90 L=1330	1001032

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Quick couplers

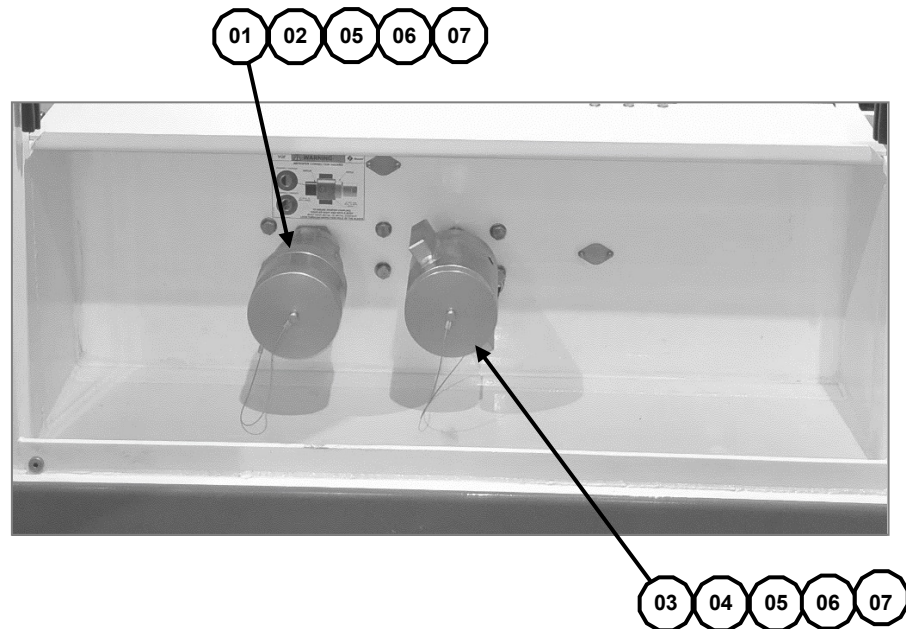
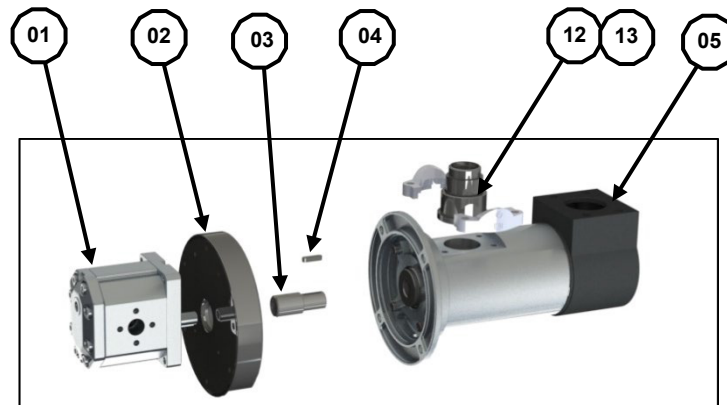
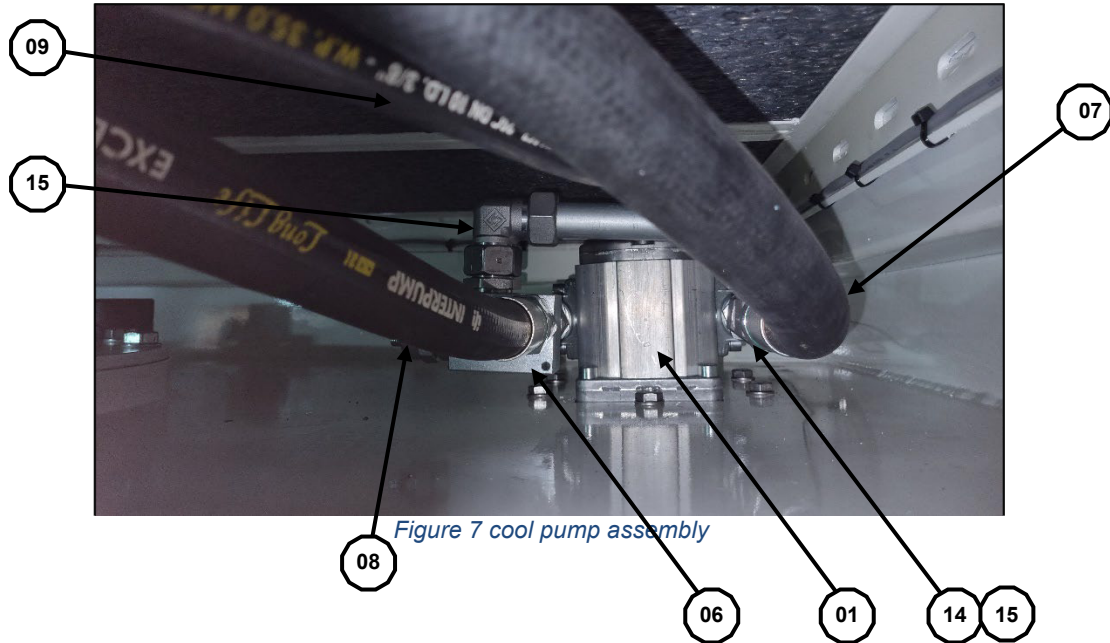


Figure 6 Quick couplers

Item	QTY	Description	Part no.
01	2	Quick Coupler Female 11/2" 6000PSI	1000221
02	2	Dust Cap Quick Coupler Female 11/2"	1000224
03	2	Quick Coupler Male 11/2" 6000PSI	1000220
04	2	Dust Plug Quick Coupler Male 11/2"	1000223
05	2	11/2"Bsp-2"Bsp	1000962
06	2	ED2"	1000481
07	2	ED11/2"	1000225

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Cooling pump



Item	QTY	Description	Part no.
01	1	Gear motor	1001000
02	1	Adapter flange	1000847
03	1	Connection shaft	1000846
04	1	key	1000848
05	1	High flow pump	1000845
06	1	Relief valve 120-320bar	1001040
07	1	Hose 1" 2SC-28L-28L45 L=850	1001033
08	1	Hose 1" 2SC-28L-28L90 L=2860	1001028
09	1	Hose 3/8" 2SC-12L-12L90 L=2500	1001034
10	3	GE28LREDDOMD	1000180
11	1	EGE28LRED	1001042
12	1	Return manifold	1000994-906
13	1	Flange Half 2 1/2" 3000	1000688

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Item	QTY	Description	Part no.
14	1	EL28LOMD	1001043
15	1	EW28L	1000172

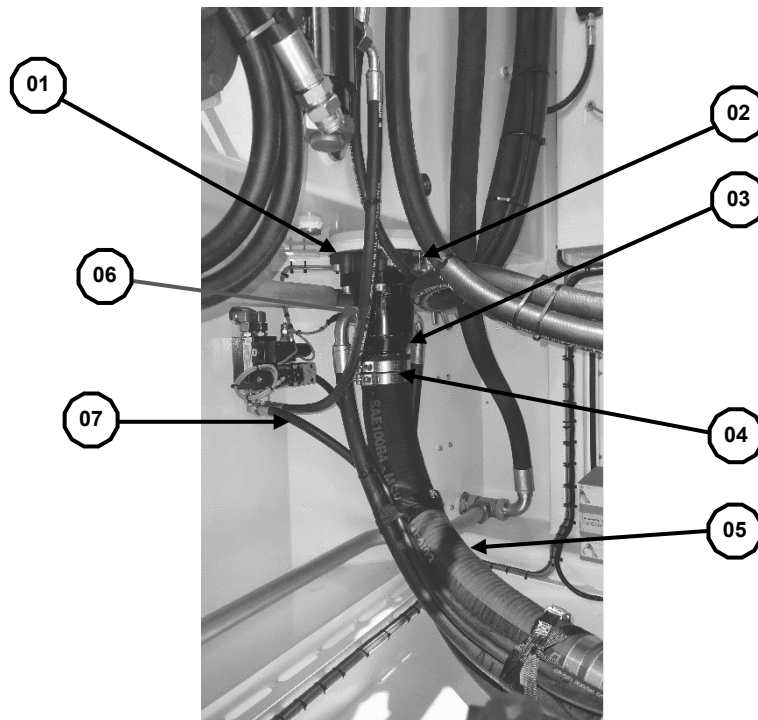
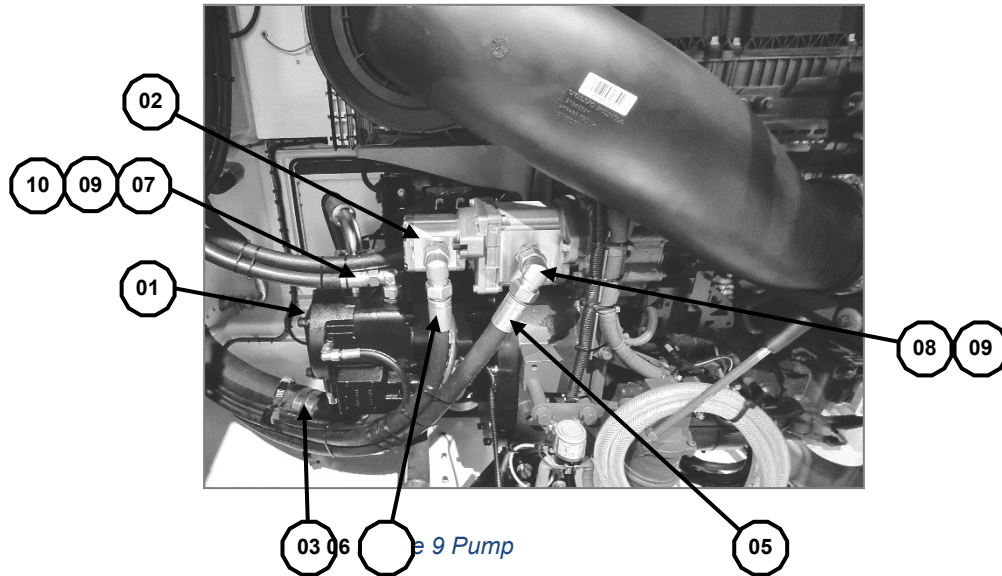


Figure 8 Intake manifold

Item	QTY	Description	Part no.
01	1	Butterfly valve	1000682
02	1	Limit switch	1000200
03	1	Intake manifold	1000667-800
04	4	Heavy clamp SS	1000316
05	2.5	Hose Dn-100	
06	1	Hose 1/2" 2SC-15L-18L90 L=950	1001039
07	1	Hose 1/2" 2SC-15L-15L90 L=1850	1001030

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Drive pump



Pump Coupler

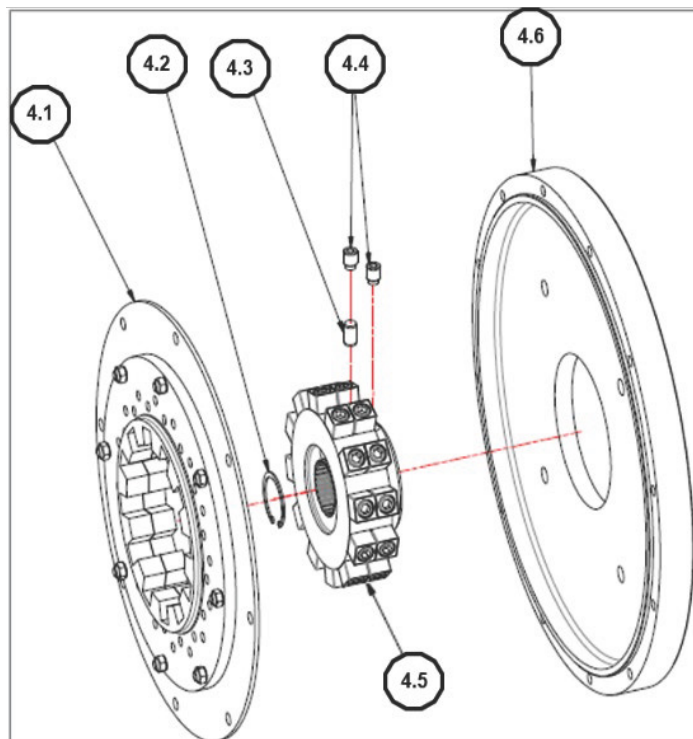
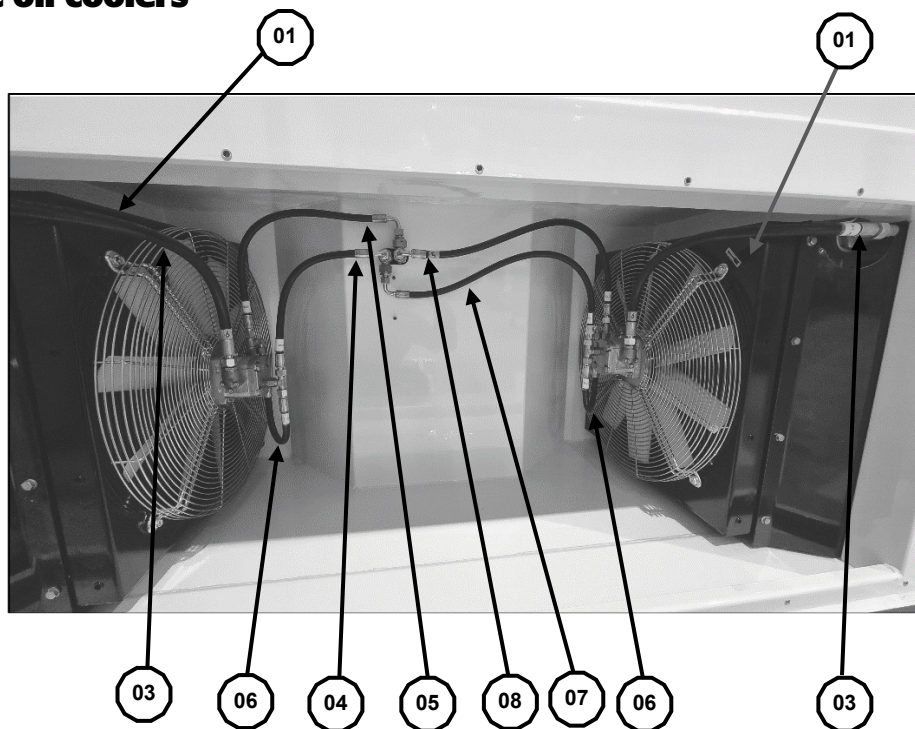


Figure 10 Motor/pump coupling

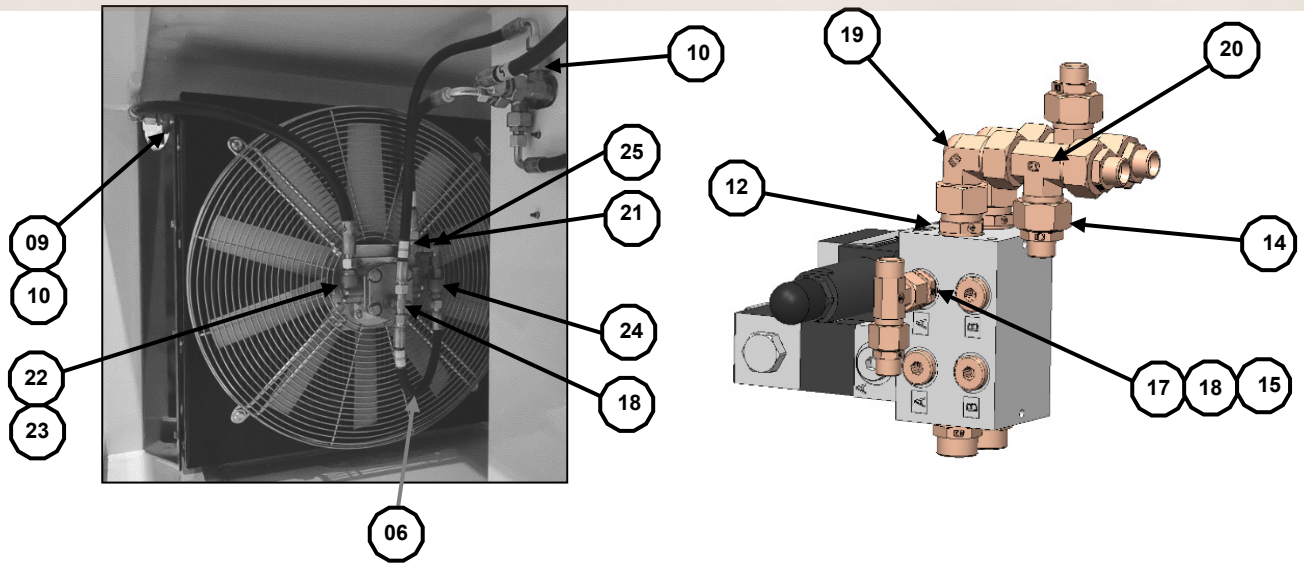
P-460-V-I PARTS MANUAL

Item	QTY	Description	Part no.
01	1	D1P 260cc CW	1000936
02	1	Pump 44 / 17cc SAE-B	1000937
03	1	Pump intake manifold	1000667-801
04	1	Pump coupler	1000705
4.1		Fly wheel adapter plate/coupler	1000705-4.1
4.2		Snap ring int.	1000705-4.2
4.3		Extender pin	1000705-4.3
4.4		Bolt	1000705-4.4
4.5		Spline Hub	1000705-4.5
4.6		Pump Adapter plate	1000705-4.6
05	1	Hose 1" 2SC-28L-28L90 L=2860	1001028
06	1	Hose 1" 2SC-28L-28L90 L=2050	1001029
07	1	Hose 1" 2SC-28L-28L90 L=1330	1001032
08	2	GE28LOMD	1000180
09	3	EW28LOMD	1000172
10	1	GE28LM33x2EDOMD	1000466

Hydraulic oil coolers



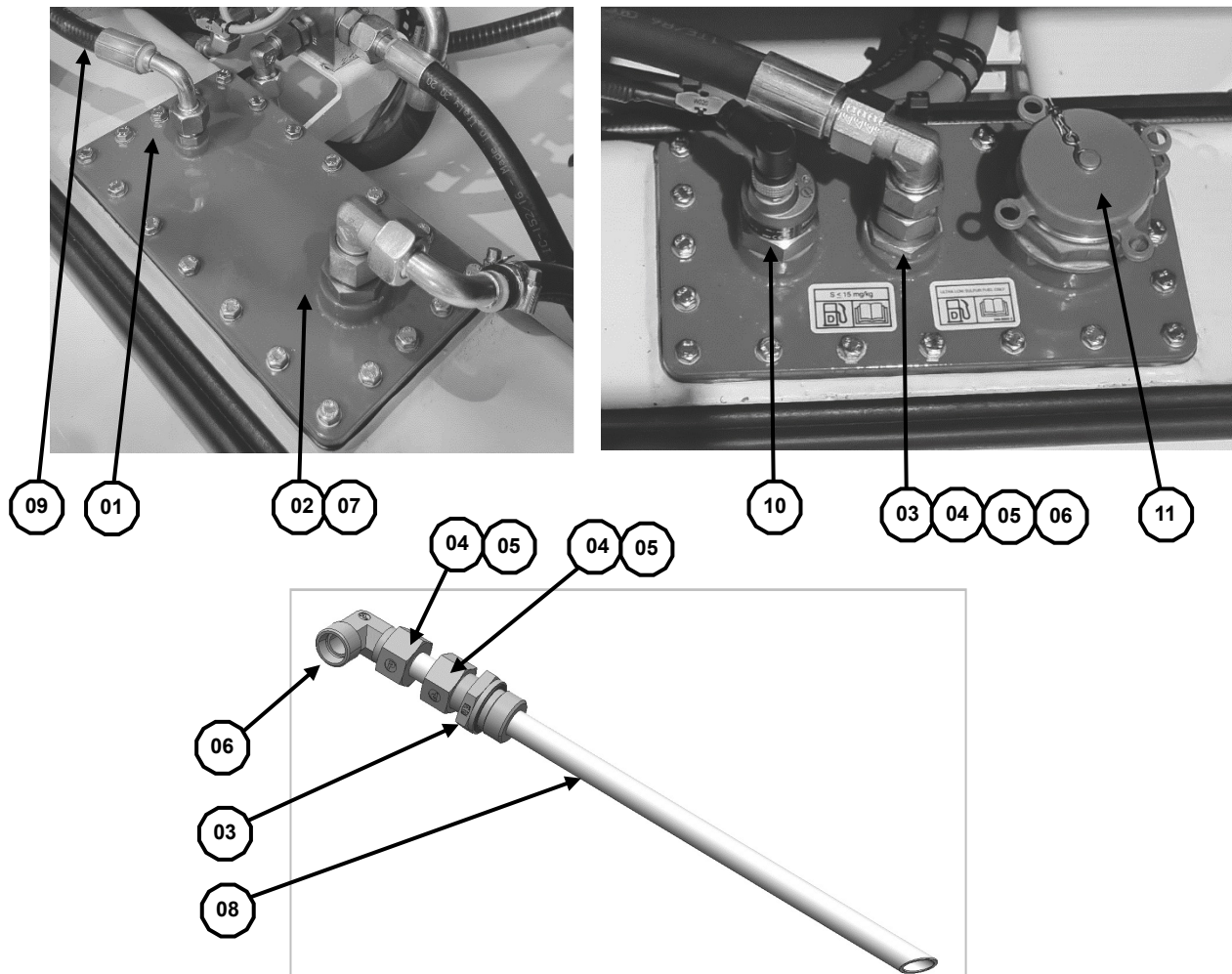
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Item	QTY	Description	Part no.
01	2	Oil Cooler	1000093
02	1	Cooler manifold	1000158
03	2	Hose 1/2" 2sn-15L-15L L=650	1000360
04	1	Hose 3/8" 2sn-12L-12L90 L=460	1000362
05	1	Hose 3/8" 2sn-12L-12L90 L=625	1000767
06	2	Hose 3/8" 2sn-12L-12L L=375	1000768
07	1	Hose 3/8" 2sn-12L-12L90 L=755	1000769
08	1	Hose 3/8" 2sn-12L-12L90 L=815	1000770
09	2	RI11_2EDX1_2	1000177
10	2	GE15LREDOMD	1000205
11	3	EW15LOMD	1000213
12	5	GE18LREDOMD	1000202
13	2	EL18LOMD	1000731
14	4	RED18_12LOMD	1000732
15	1	RED12_10LOMD	1000726
16	3	VSTI3/8ED	1000085
17	1	GE12LR3/8EDOMD	1000082
18	1	ET12LOMD	1000441
19	2	EW18LOMD	1000173
20	2	EL18LOMD	1000207
21	2	EL12LOMD	1000209
22	4	Elbow 1/2	1000160
23	4	GE12LR1/2ED	1000178
24	2	Checkvalve 0.5bar	1000585
25	2	EW12LOMD	1000203

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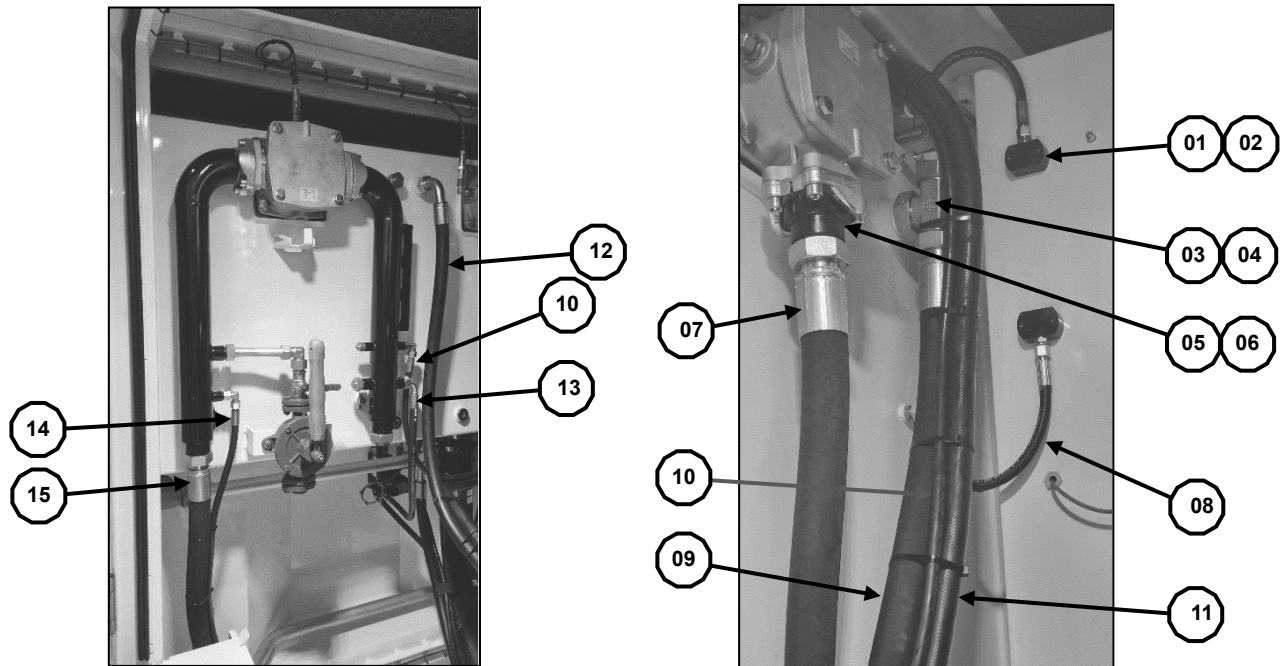
Fuel connections



Item	QTY	Description	Part no.
01	1	GE12LR1/4ED	1000208
02	1	GE15LR3/4EDOMD	1000431
03	1	GE15LR3/4EDOMD Drilled 15.5 mm	1000431
04	2	S15L	1000434
05	2	M15L	1000433
06	1	W15L	1000432
07	1	EW15LOMD	1000213
08	1	HD pipe 15x2 L=340mm	
09	1	Hose 3/8" 2SC-12L-12L45 L=960	1001038
10	1	Fuel level sensor	1000239
11	1	Fuel Filler Cap	1000241

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Hydraulic reservoir



Item	QTY	Description	Part no.
01	4	GE10LRED	1000081
02	2	Level Gauge manifold	1000689
03	1	ET42LOMD	1000725
04	1	RED42 28LOMD	1000181
05	1	Return manifold	1000994-906
06	1	Flange Half 2 1/2" 3000	1000688
07	1	Hose 1 1/2" 2SC-42L-42L90 L=1500	1001027
08	2	Hose 5/16" 2sn-10L-10L90 L=370	1000773
09	1	Hose 1 1/2" 2SC-42L-42L90 L=1210	1001026
10	1	Hose 3/8" 2SC-12L-12L90 L=2500	1001034
11	1	Hose 1" 2SC-28L-28L90 L=2860	1001028
12	1	Hose 1" 2SC-28L-28L90 L=1330	1001032
13	1	Hose 1/2" 2SC-15L-18L90 L=950	1001039
14	1	Hose 3/8" 2SC-12L-12L90 L=1840	1001037
15	1	Hose 1 1/2" 2SC-42L-42L90 L=1350	1001036

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Vibro manifold

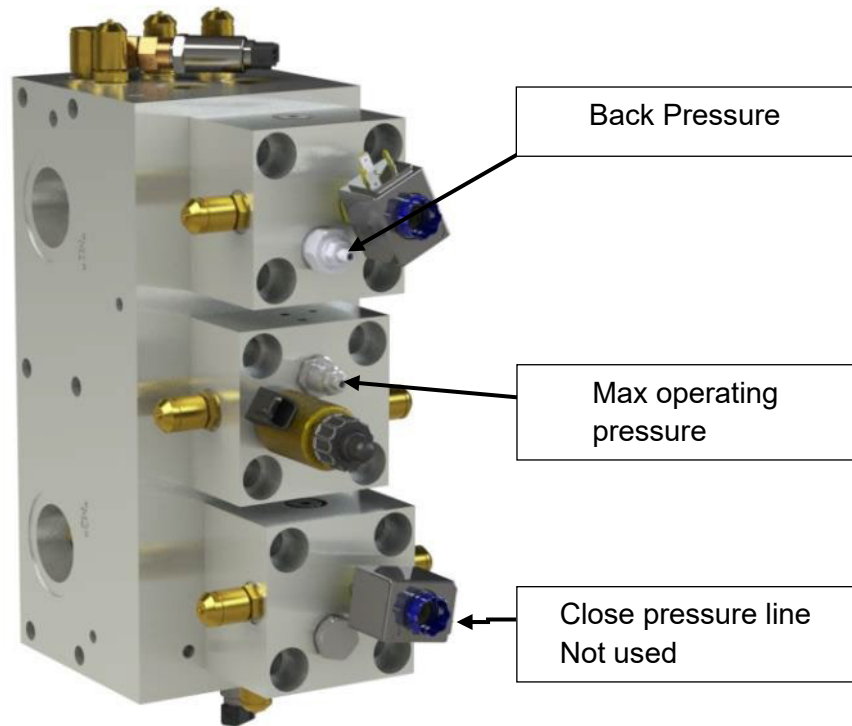


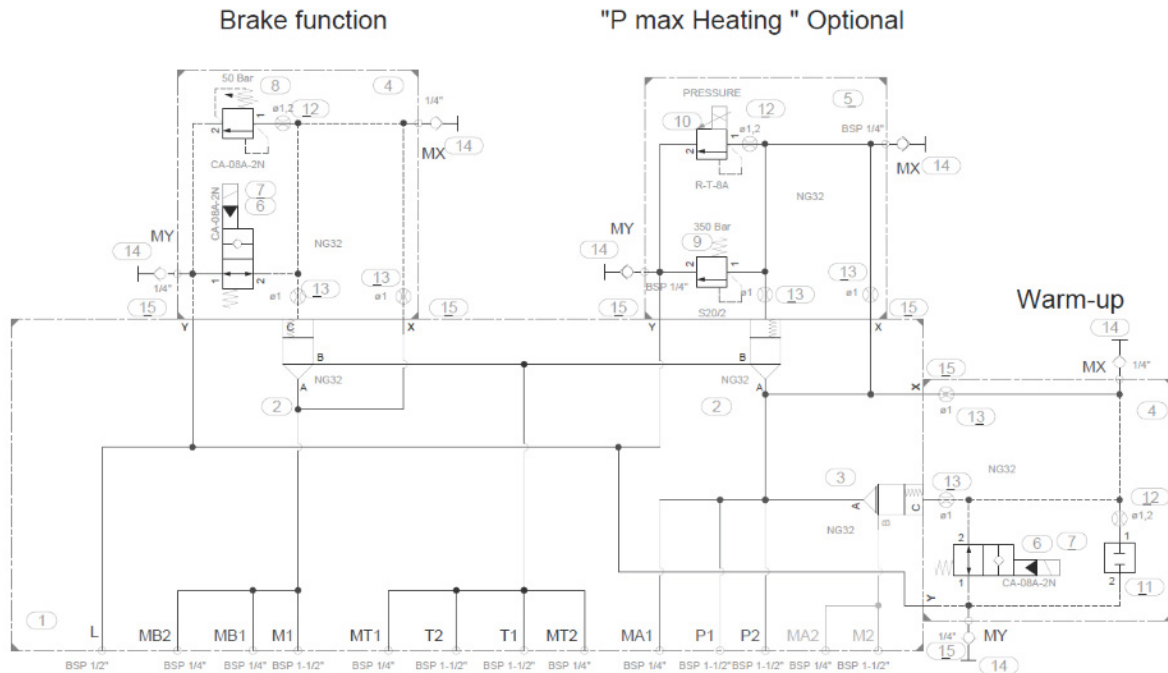
Figure 11 drive manifold 1000669

DANGER



Never adjust hydraulic settings without consulting your dealer

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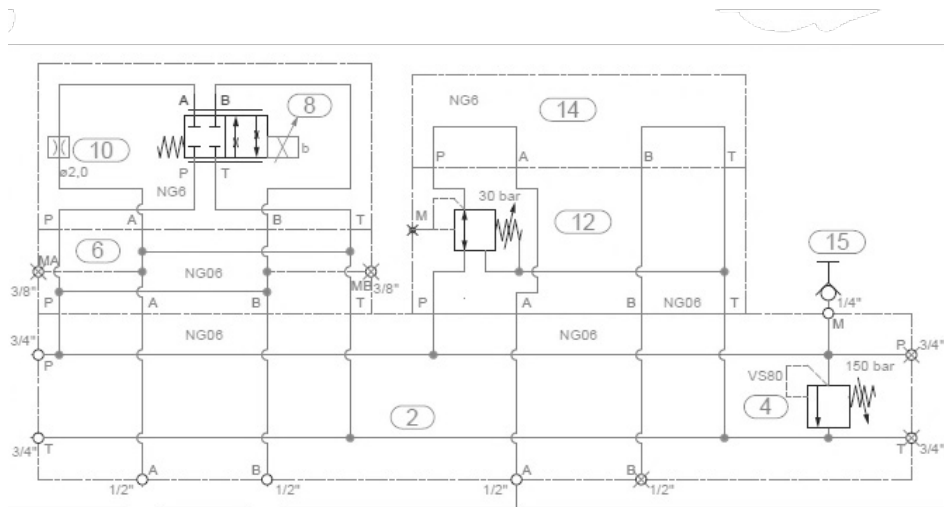


Parts list manifold 1000669

Item	QTY	Description	Part no.
1	1	Manifold body	1000669_3165-5706-0002K
2	2	NG32 cartridge compl. SC-LI-32312	1000669_3080-SC-LI 32312
3	1	NG32 cartridge compl. SC-LI-32321	1000669_3080-SC-LI 32321
4	2	Cartridge Cover NG32 -2	1000669_3165-5706-0003K
5	1	Cartridge Cover NG32 -3	1000669_3165-5706-0004K
6	2	2/2-Valve	1000669_3155-OD1506181A-S8
7	2	Coil 26 VDC	1000669_3155-OD02170130AC
8	1	Pressure relief valve	1000669_3410-100390
9	1	Pressure relief valve	1000669_3185-LPS20QN
10	1	Proportional pressure relief cartridge	1000669_3105-R901045871
11	1	Dummy Plug	1000669_3410-100355
12	3	Orifice m5x1.2	1000669_3165-10512
13	6	Orifice m5x1.0	1000669_3165-10510
14	6	Measure coupler	1000669_3240-101604
15	6	O-ring 10.82x1.78/90Sh	1000669_3470-215061

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Cooler manifold



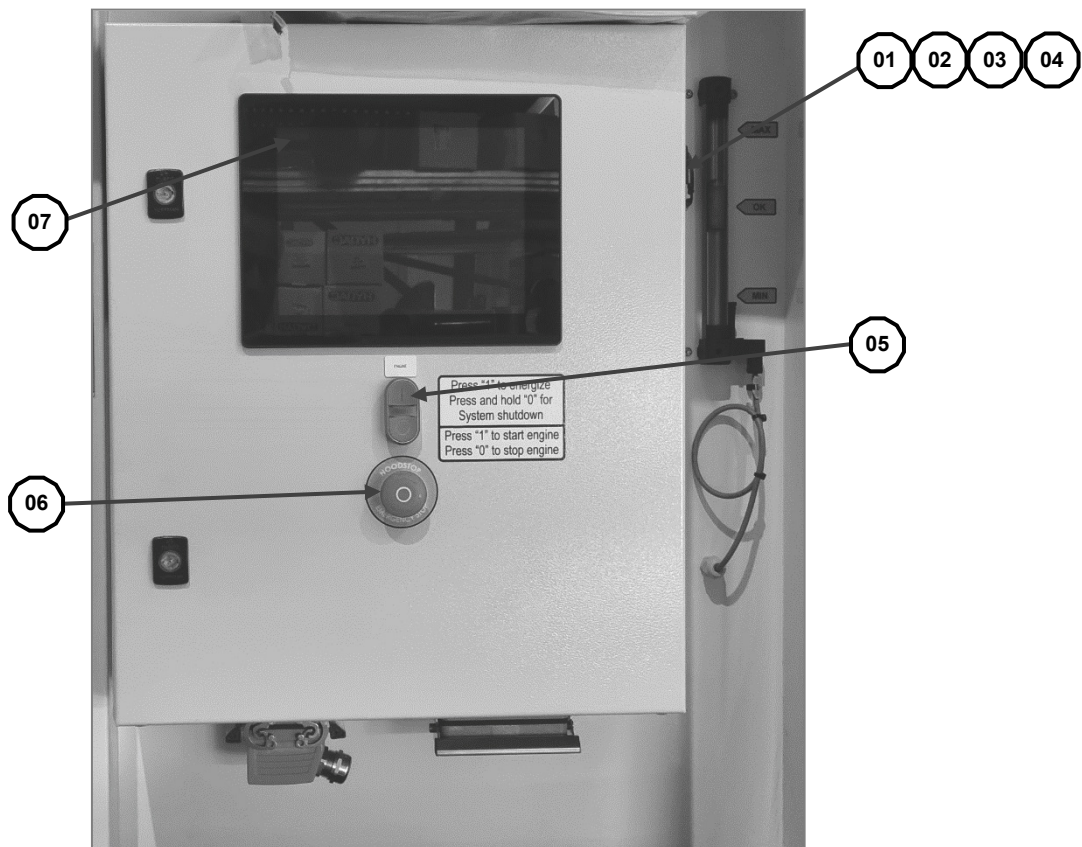
Parts list Cooler manifold 1000158

Item	QTY	Description	Part no.
2	1	Manifold body	1000158_3110-EM253/2Z
4	1	Relief valve	1000158_3110-VS80-3F
6	1	Sub plate -special	1000158_3110-412101101020
8	1	Solenoid prop.	1000158_3085-DHZE-A-051-L5/18
10	1	Orifice 3mm	1000158_3080-PLUG-H-30F
12	1	Reducer valve	1000158_3080-HG-031/50
14	1	End plate	1000158_3110-412000102020
15	1	Measure coupler	1000158_3240-101604

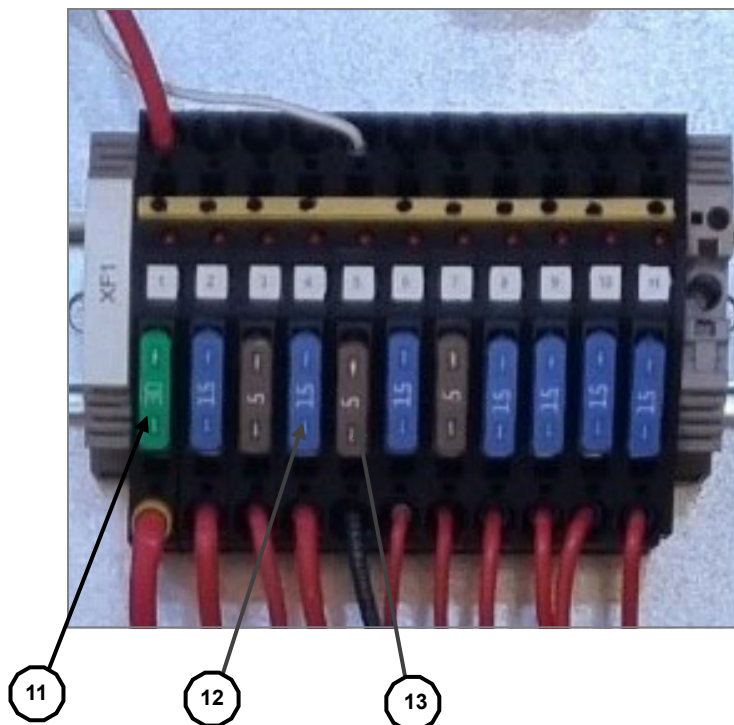
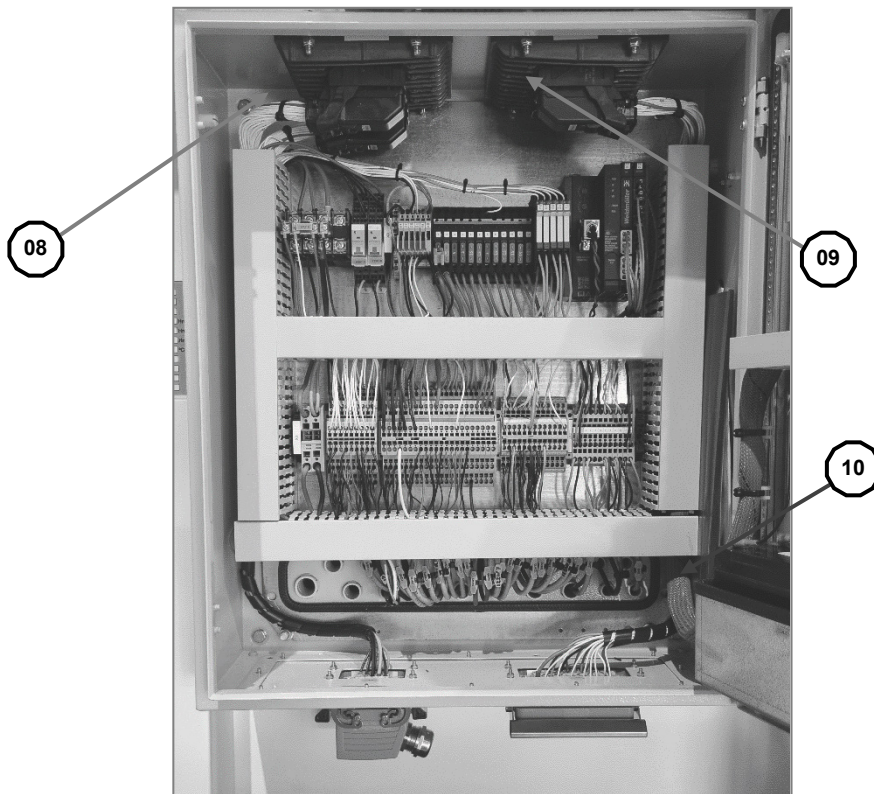
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Electrical

Control panel



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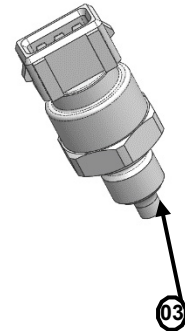


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Control panel				
Item	QTY	Description	Part no.	
01	1	Bluetooth Modem	1000255	96U2
02	1	Modem connector	1000256	
03	2	Pin-female	1000455	
04	1	Connector wedge	1000259	
05	1	Push button	1000287-60PS3	
06	1	Emergency stop button	1000287-20S18	
07	1	MD4 HMI	1000252	
08	1	XC44 extension module	1000696	100A2
09	1	XC43 extension module	1000697	102A2
10	2	Backup battery	1000456	
11	1	Fuse 30A Type C Din 72581		
12	6	Fuse 15A Type C Din 72581		
13	4	Fuse 5A Type C Din 72581		

** For detail control panel parts see the electrical diagram*

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Electrical				
Item	QTY	Description	Part no.	
01	1	Pressure sensor 400 bar	1000701	
01	1	Pressure sensor 6 bar	1000702	
02	1	M12 connector cable 5mtr	1000554	
03	1	Temperature sensor	1000201	

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6. Diesel Engine

- For spare parts we refer to the suppliers Operation and Maintenance Manual industrial manual.

Volvo

- Engine Serial number: 20132242965
- Volvo TAD1383VE
- Chassis ID VP-444498

Service interval

- Every 1000 hrs or 12 months whichever comes first.

Component		Interval HRS	Part No	Qty
Every 1000 hrs		1000		
Engine Oil filter bypass	replace		1001006	1
Engine Oil filter main	replace		1001007	2
Engine oil	replace		1001009	36
Coolant level and antifreeze mixture (quality check)	check		1000974	1
Drive belts, belt tensioner and idler wheels	check			
Air filter	replace		1001008	1
Fuel pre-filter	replace		1000548	1
Fuel filter	replace		1000547	1
Reading out ash load, DPF: Note the percentage in the service protocol in product center	check			
Filter hydraulic	replace		1000193	1
Filter hydraulic	replace		1000194	1
Every 2000 hrs		2000		
Valve clearance	adjust			
Valve cover gasket	replace		1001010	1
Air filter, AdBlue®/DEF tank breather				
Air cleaner	replace		1001012	1
AdBlue®/DEF filter , pump unit				
Filter Ad-blue	replace		1001013	1
AdBlue®/DEF tank, armature filter				
Filter ad-blue suctionfilter	replace		1001014	1
Every 4000		4000		1
V-ribbed belt	replace		1001015	1
Belt tensioner	replace		1001011	1
Every 6000 hrs		6000		
NOx sensor pre	replace		1001016	1
NOx sensor post SCR	replace		1001017	1
Every 8000 hrs		8000		
Volvo coolant ready mixed	replace		1000974	24