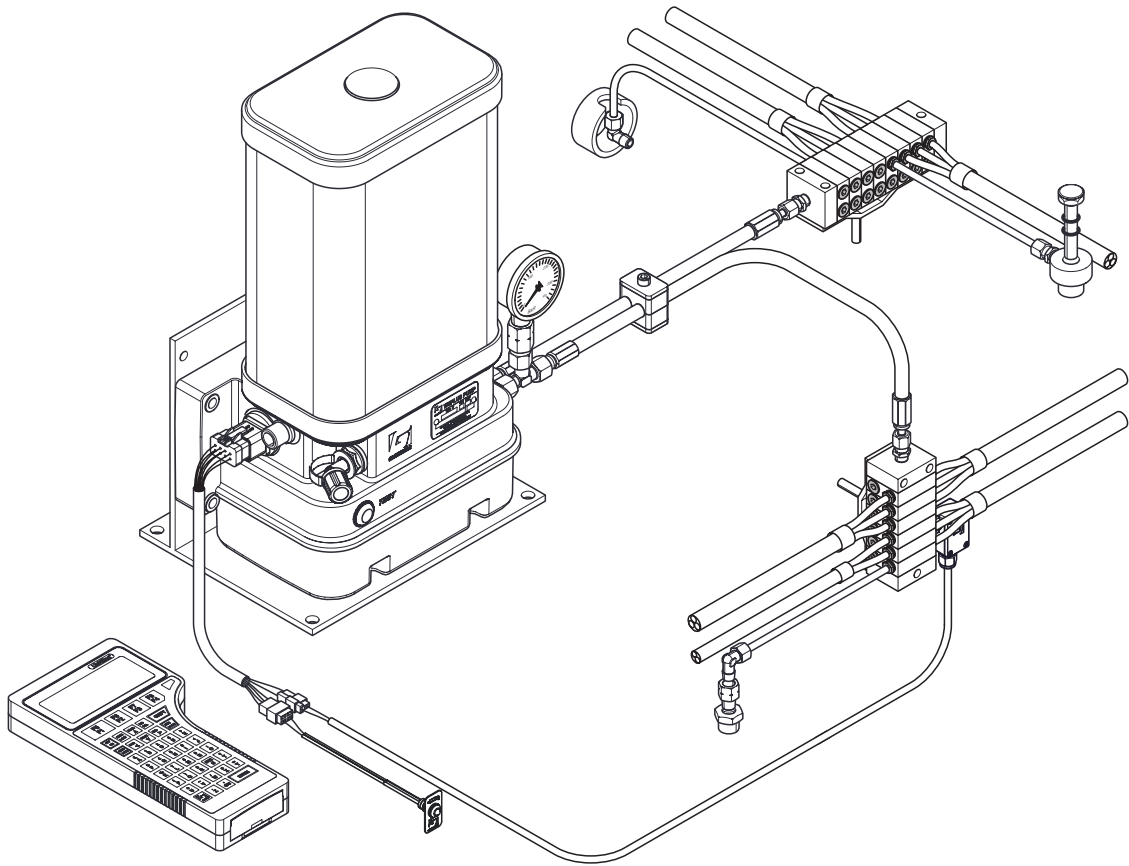


Parts Manual



Automatic Progressive Greasing Systems

F213259R18



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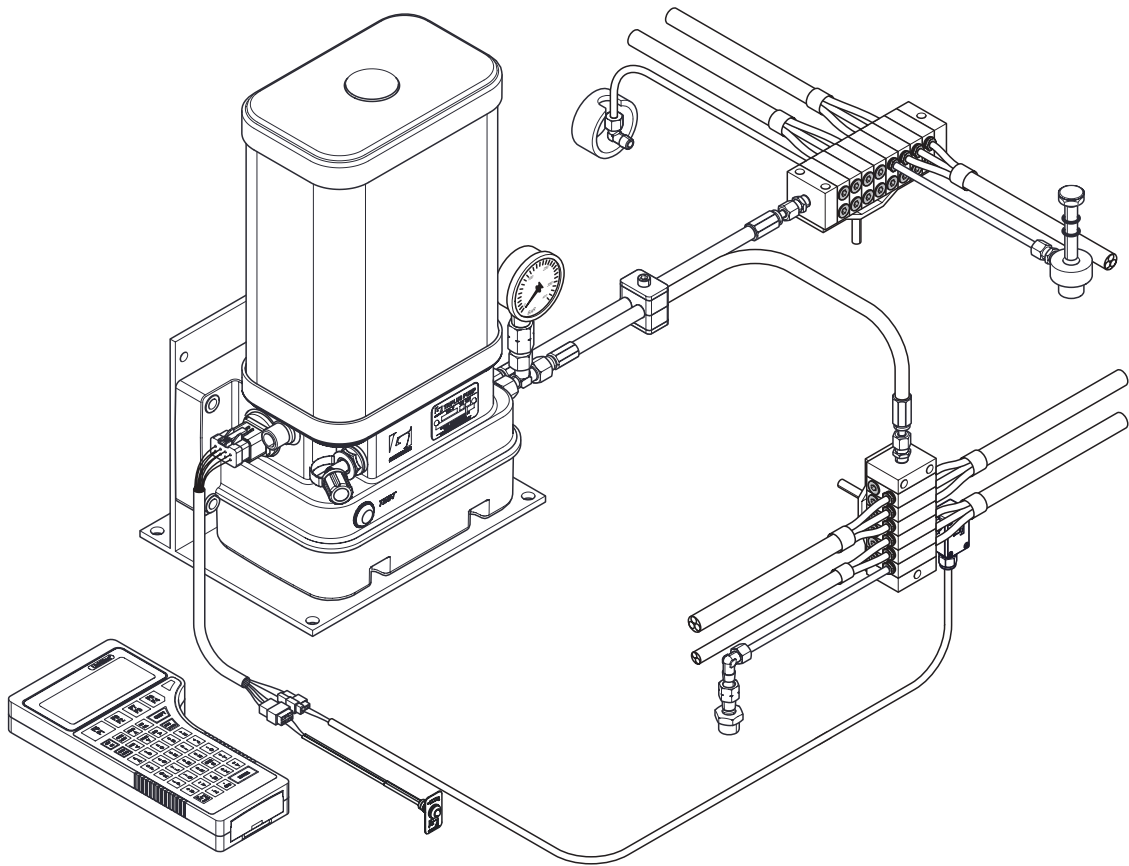
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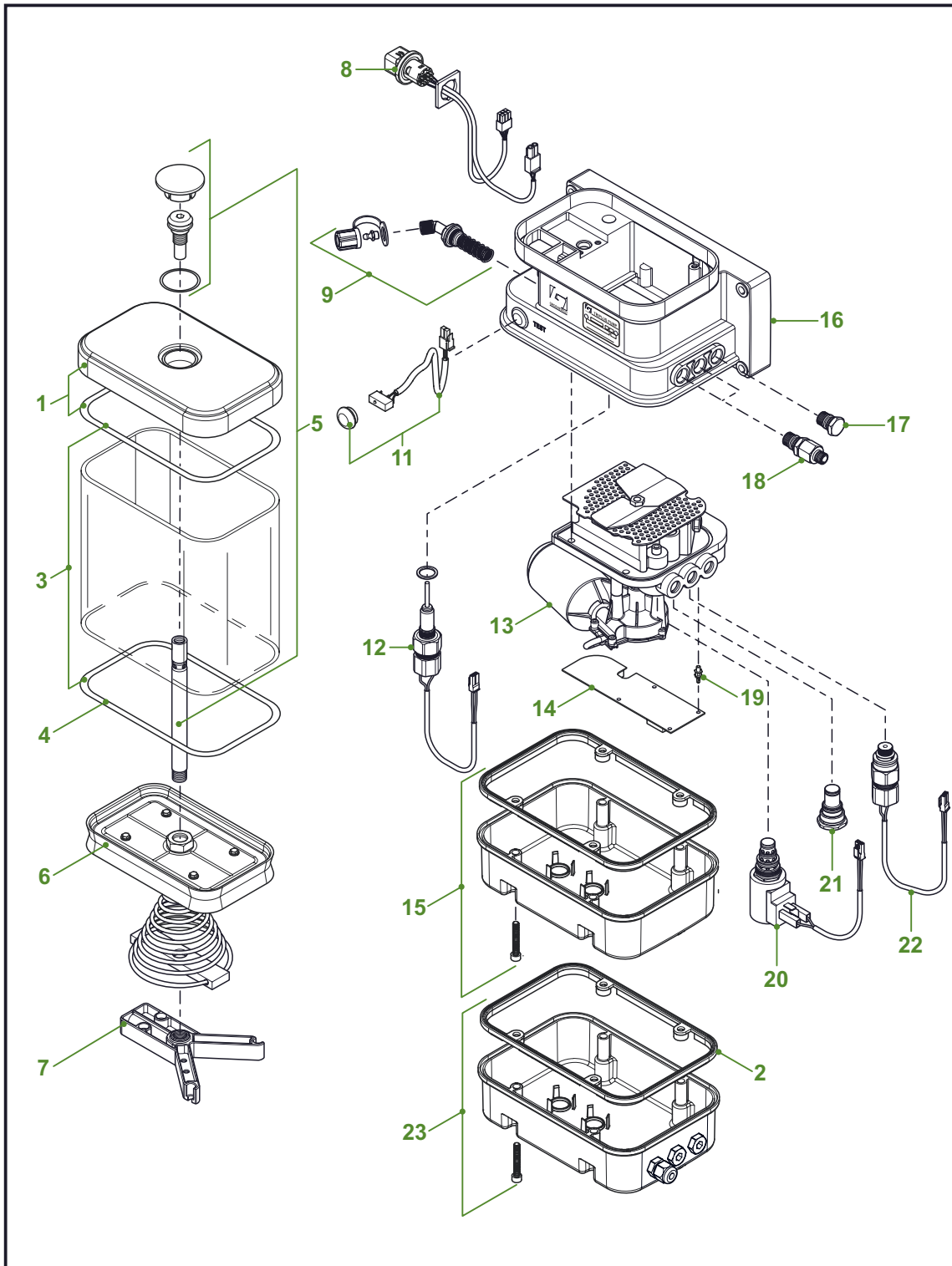
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1. PUMPS



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1.1 TriPlus-3 truck pumps 1.5 - 4 litres

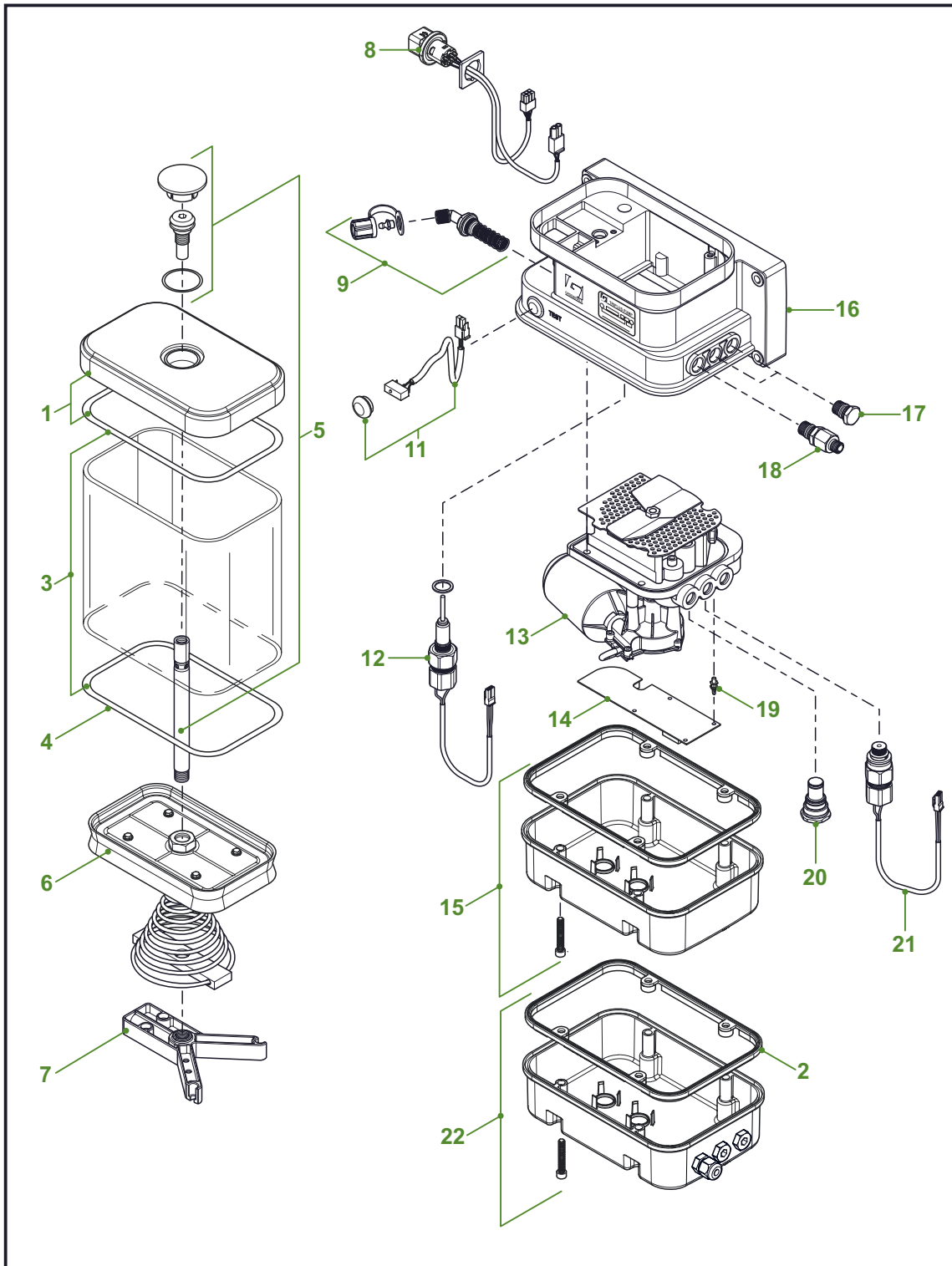
Part no.	Supply voltage	Capacity reservoir	Number of outlets	Grease delivery	Maximum pressure
F129081	12 Vdc	1.5 litres	2	2.5 cc/min	275 bar
F129082	24 Vdc	1.5 litres	2	2.5 cc/min	275 bar
F129077	12 Vdc	3 litres	1	2.5 cc/min	275 bar
F129083	12 Vdc	3 litres	3	2.5 cc/min	275 bar
F129074	24 Vdc	3 litres	1	2.5 cc/min	275 bar
F129075	24 Vdc	3 litres	2	2.5 cc/min	275 bar
F129076	24 Vdc	3 litres	3	2.5 cc/min	275 bar
F129079	12 Vdc	4 litres	1	2.5 cc/min	275 bar
F129070	24 Vdc	4 litres	1	2.5 cc/min	275 bar
F129099	24 Vdc	4 litre	2	2.5 cc/min	275 bar
F606338 ¹⁾	24Vdc	4 litre	2	2.5 cc/min	275 bar
F741172 ²⁾	24Vdc	4 litre	2	2.5 cc/min	275 bar

Pos	Part no.	Description	Pos	Part no.	Description
1	F112915	Cover Inc. O-ring	12	F601391	Low level sensor
2	F120711	Gasket bottom cover	13	F129668	Pump unit 12 Vdc
3	F119664	Reservoir kit 1.5 litre		F129104	Pump unit 24 Vdc
	F172547	Reservoir kit 3 litre	14	F130186	Timer 12 / 24 Vdc
	F172548	Reservoir kit 4 litre	15	F112864	Bottom cover
4	F111856	O-ring	16	F112320	Pump body
5	F121176	Shaft kit 1.5 l reservoir	17	F112265	Pump outlet plug
	F121173	Shaft kit 3 l reservoir	18	F113672	Pump outlet M12x1.5
	F121160	Shaft kit 4 l reservoir	19	F111296	Timer clip
6	F112862	Follower plate 1.5 - 3 l	20	F129787	Outlet kit 12 Vdc
	F127230	Follower plate 4 l		F129788	Outlet kit 24 Vdc
7	F115745	Support kit	21	F112264	Plug
8	F129100	Cable harness	22	F129108	Pressure switch 300bar
9	F118171	Grease filter kit	23	F130205	Block switch cover kit
11	F170210	Test switch kit			

¹⁾ Stainless steel version

²⁾ Pump excluding grease

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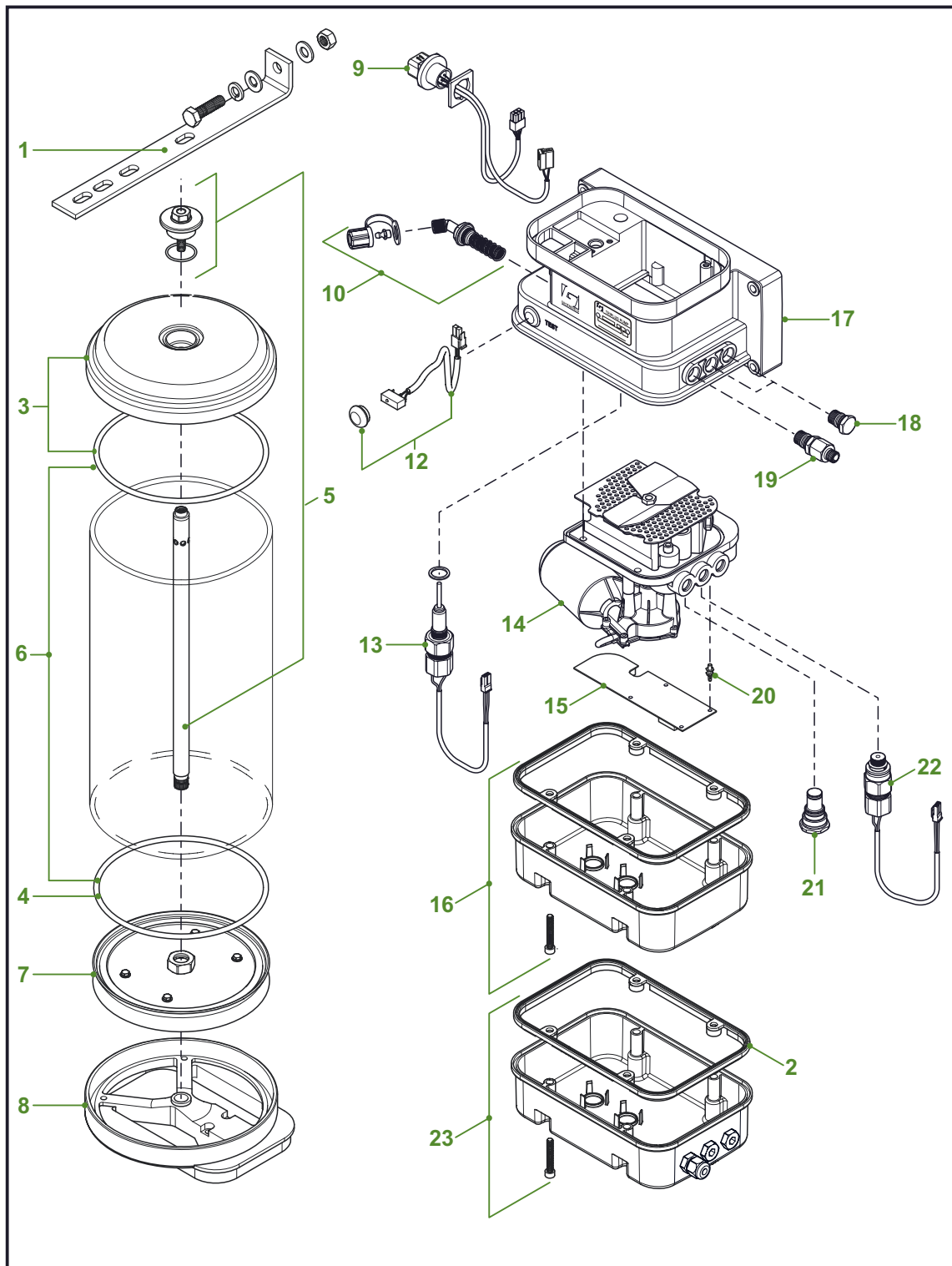
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1.2 TriPlus-3 trailer pumps 3 - 4 litres

<i>Part no.</i>	<i>Supply voltage</i>	<i>Capacity reservoir</i>	<i>Number of outlets</i>	<i>Grease delivery</i>	<i>Maximum pressure</i>
F129071	24 Vdc	3 litres	1	2.5 cc/min	275 bar
F129092	24 Vdc	4 litres	1	2.5 cc/min	275 bar

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>	<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F112915	Cover Inc.. O-ring	11	F170210	Test switch kit
2	F120711	Gasket bottom cover	12	F601391	Low level sensor
3	F172547	Reservoir kit 3 litre	13	F129104	Pump unit 24 Vdc
	F172548	Reservoir kit 4 litre	14	F130186	Timer 12 / 24 Vdc
4	F111856	O-ring	15	F112864	Bottom cover
5	F121173	Shaft kit 3 l reservoir	16	F112320	Pump body
	F121160	Shaft kit 4 l reservoir	17	F112265	Pump outlet plug
6	F112862	Follower plate 1.5 - 3 l	18	F113672	Pump outlet M12x1.5
	F127230	Follower plate 4 l	19	F111296	Timer clip
7	F115745	Support kit	20	F112264	Plug
8	F129101	Cable harness	21	F129108	Pressure switch 300bar
9	F118171	Grease filter kit	22	F130205	Block switch cover kit

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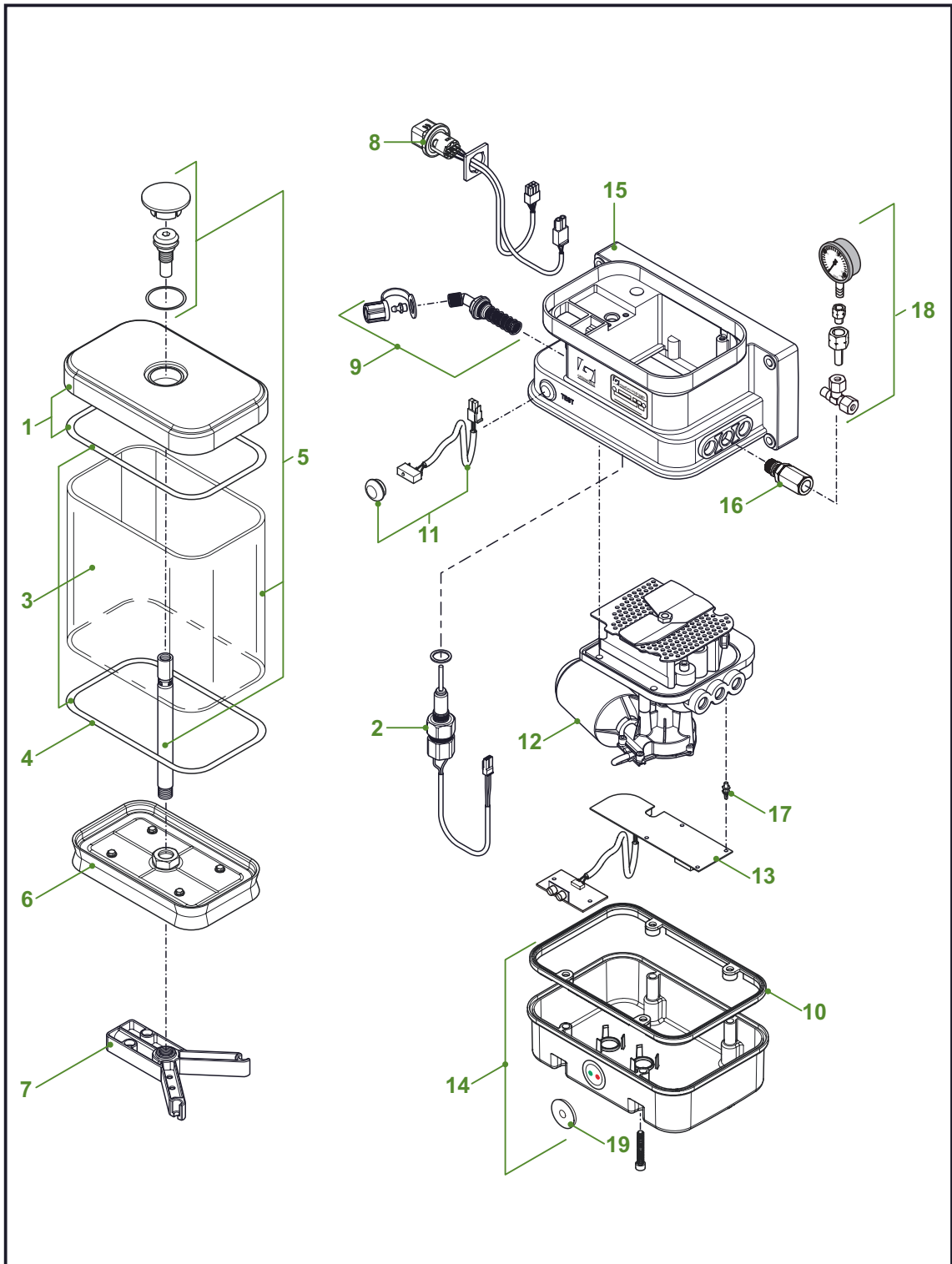
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1.3 TriPlus-3 truck pumps 8 litres

<i>Part no.</i>	<i>Supply voltage</i>	<i>Capacity reservoir</i>	<i>Number of outlets</i>	<i>Grease delivery</i>	<i>Maximum pressure</i>
F129080	24 Vdc	8 litres	1	2.5 cc/min	275 bar

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>	<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F116961	Bracket kit reservoir	13	F601392	Low level sensor
2	F120711	Gasket bottom cover	14	F129104	Pump unit 24 Vdc
3	F605724	Cover + O-ring	15	F130186	Timer 12 / 24 Vdc
4	F110151	O-ring	16	F112864	Bottom cover
5	F121174	Shaft 8 l reservoir	17	F112320	Pump body
6	F172535	Reservoir kit 8 litre	18	F112265	Pump outlet plug
7	F117029	Follower plate 8 l	19	F113672	Pump outlet M12x1.5
8	F117037	Adapter 8L	20	F111296	Timer clip
9	F129100	Cable harness	21	F112264	Plug
10	F118171	Grease filter kit	22	F129108	Pressure switch 300bar
12	F170210	Test switch kit	23	F130205	Block switch cover kit

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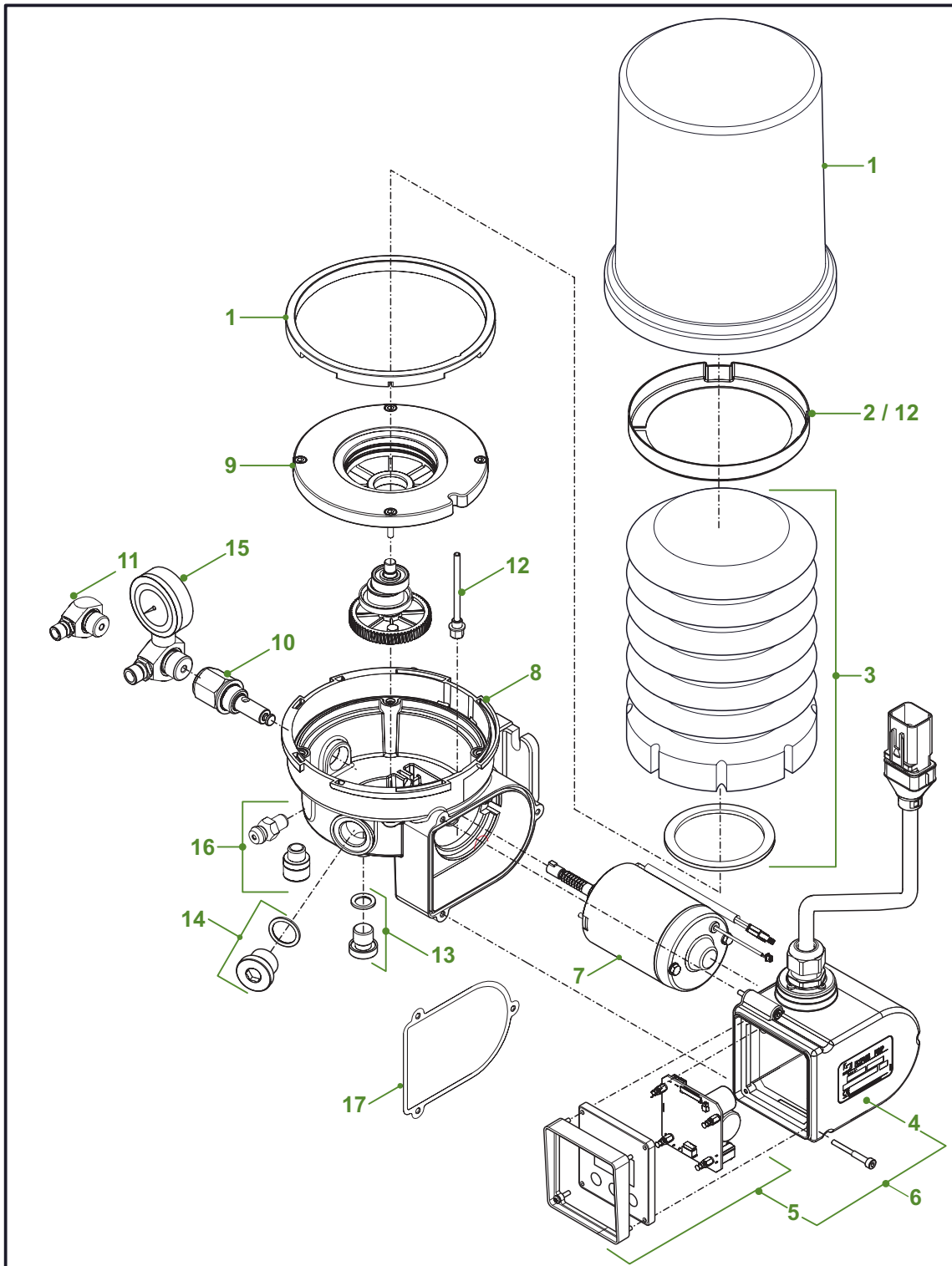
1.4 OnePlus-2 pumps 2 - 3 litres

<i>Part no.</i>	<i>Supply voltage</i>	<i>Capacity reservoir</i>	<i>Number of outlets</i>	<i>Grease delivery</i>	<i>Maximum pressure</i>
F606534	12 Vdc	2 litres	1	2.5 cc/min	275 bar
F602626	24 Vdc	2 litres	1	2.5 cc/min	275 bar
F606530 ¹⁾	24 Vdc	2 litres	1	2.5 cc/min	275 bar
F606532	12 Vdc	3 litres	1	2.5 cc/min	275 bar
F606533	24 Vdc	3 litres	1	2.5 cc/min	275 bar

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>	<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F112915	Cover inc O-ring	11	F170210	Test switch kit
2	F601391	Low level sensor	12	F605336	Pump unit 12 Vdc
3	F124261	Reservoir kit 2 litre		F603872	Pump unit 24 Vdc
	F124262	Reservoir kit 3 litre	13	F605305	Timer 12 / 24 Vdc
4	F111856	O-ring	14	F605373	Bottom cover kit
5	F121177	Shaft kit 2 l reservoir	15	F122235	Pump body
6	F112862	Follower plate 2 l	16	F121996	Pump outlet M14x1.5
7	F115745	Support kit	17	F111296	Timer clip
8	F605372	Cable harness	18	F202703 ²⁾	Manometer kit
9	F118171	Grease filter kit	19	F604056	Plug
10	F120711	Gasket bottom cover			

¹⁾ Pump excluding grease

²⁾ Optional.



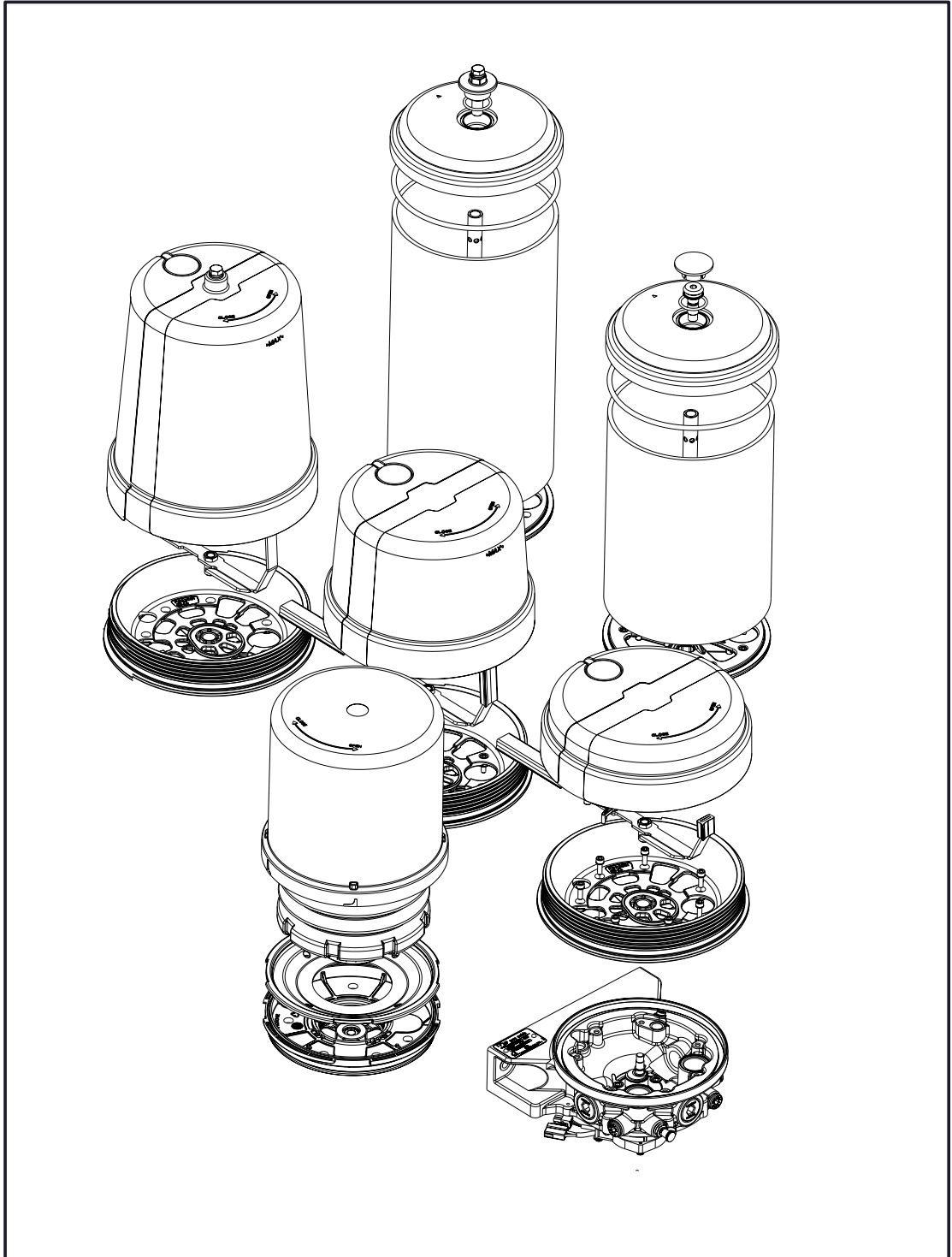
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1.5 EcoPlus pumps 1.7 litres

<i>Part no.</i>	<i>Version</i>	<i>Supply voltage</i>	<i>Capacity reservoir</i>	<i>Low level</i>	<i>Mano-meter</i>	<i>Grease delivery</i>	<i>Maximum pressure</i>
F132007	Truck	12 Vdc	1.7 litres	Yes	Yes	0.25cc / stroke	275 bar
F132006	Truck	24 Vdc	1.7 litres	Yes	Yes	0.25cc / stroke	275 bar
F601991	Truck	12 Vdc	1.7 litres	No	No	0.25cc / stroke	275 bar
F601990	Truck	24 Vdc	1.7 litres	No	No	0.25cc / stroke	275 bar
F603970	Trailer	12 Vdc	1.7 litres	No	Yes	0.25cc / stroke	275 bar
F601537	Trailer	24 Vdc	1.7 litres	No	Yes	0.25cc / stroke	275 bar

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>	<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F601196	Cartridge cover kit	10	F129497	Pump element No. 3 (0.15cc)
2	F131720	Level indicator ring		F131043	Pump element No. 4 (0.20cc)
3	F130827	Cartridge NLGI-2		F131112	Pump element No. 5 (0.25cc)
4	F605363	Motor cover	11	F604619	Reduction adapter.
5	F605364	Timer kit 12V / 24V	12	F603571	Low level indicator kit
6	F601399	Complete timer	13	F130726	Plug M12x1.5
7	F602644	Motor 12 Vdc	14	F130769	Plug M20x1.5
	F602645	Motor 24 Vdc	15	F603000	Manometer
8	F617790	Pump body	16	F617720	Refillable kit EcoPlus
9	F129488	Pump upper flange	17	F129875	Gasket cover.

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1.6 GPA standard pumps

Part no.	TYPE	Supply voltage	Reservoir	Capacity reservoir	Pumping element	Low level	Description
F685003	GPA	12V	Paddle	2.5L	Type 6 (1x)	No	GPA 12V-2,5L-PAD-3.1
F797716	GPA	12V	Paddle	2.5L	Type 6 (1x)	Yes	GPA 12V-2.5L-PAD-3.1-LS
F684999	GPA	12V	Paddle	5L	Type 6 (1x)	No	GPA 12V-5L-PAD-3.1
F797741	GPA	12V	Paddle	5L	Type 6 (1x)	Yes	GPA 12V-5L-PAD-3.1-LS
F685004	GPA	12V	Paddle	8L	Type 6 (1x)	No	GPA 12V-8L-PAD-3.1
F797757	GPA	12V	Paddle	8L	Type 6 (1x)	Yes	GPA 12V-8L-PAD-3.1-LS
F686465	GPA	12V	Cartridge	3L	Type 6 (1x)	No	GPA 12V-3L-CAR-3.1
F797786	GPA	12V	Cartridge	3L	Type 6 (1x)	Yes	GPA 12V-3L-CAR-3.1-LS
F685001	GPA	12V	Follower	3L	Type 6 (1x)	No	GPA 12V-3L-FOL-3.1
F797776	GPA	12V	Follower	3L	Type 6 (1x)	Yes	GPA 12V-3L-FOL-3.1-LS
F685000	GPA	12V	Follower	5L	Type 6 (1x)	No	GPA 12V-5L-FOL-3.1
F797779	GPA	12V	Follower	5L	Type 6 (1x)	Yes	GPA 12V-5L-FOL-3.1-LS
F685002	GPA	12V	Follower	8L	Type 6 (1x)	No	GPA 12V-8L-FOL-3.1
F797742	GPA	12V	Follower	8L	Type 6 (1x)	Yes	GPA 12V-8L-FOL-3.1-LS
F796455	GPA	24V	Paddle	2.5L	Type 6 (1x)	Yes	GPA 24V-2.5L-PAD-3.1-LS
F836927	GPA	24V	Paddle	2.5L	Type 6 (0x)	Yes	GPA 24V-2.5L-PAD-3.0-LS
F683983	GPA	24V	Paddle	2.5L	Type 6 (1x)	No	GPA 24V-2,5L-PAD-3.1
F836975	GPA	24V	Paddle	3L	Type 6 (0x)	Yes	GPA 24V-3L-PAD-3.0-LS
F622524	GPA	24V	Paddle	5L	Type 6 (1x)	No	GPA 24V-5L-PAD-3.1
F735580	GPA	24V	Paddle	5L	Type 6 (3x)	No	GPA 24V-5L-PAD-3.3
F735581	GPA	24V	Paddle	5L	Type 6 (1x)	Yes	GPA 24V-5L-PAD-3.1
F836935	GPA	24V	Paddle	5L	Type 6 (0x)	Yes	GPA 24V-5L-PAD-3.0-LS
F683656	GPA	24V	Paddle	8L	Type 6 (1x)	No	GPA 24V-8L-PAD-3.1
F796491	GPA	24V	Paddle	8L	Type 6 (1x)	Yes	GPA 24V-8L-PAD-3.1-LS
F796458	GPA	24V	Cartridge	2.5L	Type 6 (1x)	Yes	GPA 24V-2.5L-CAR-3.1-LS
F624340	GPA	24V	Cartridge	3L	Type 6 (1x)	No	GPA 24V-3L-CAR-3.1
F683825	GPA	24V	Follower	3L	Type 6 (1x)	No	GPA 24V-3L-FOL-3.1
F796493	GPA	24V	Follower	3L	Type 6 (1x)	Yes	GPA 24V-3L-FOL-3.1-LS
F624336	GPA	24V	Follower	5L	Type 6 (1x)	No	GPA 24V-5L-FOL-3.1
F796495	GPA	24V	Follower	5L	Type 6 (1x)	Yes	GPA 24V-5L-FOL-3.1-LS
F683648	GPA	24V	Follower	8L	Type 6 (1x)	No	GPA 24V-8L-FOL-3.1
F796500	GPA	24V	Follower	8L	Type 6 (1x)	Yes	GPA 24V-8L-FOL-3.1-LS

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1.7 GPA standard pump kits with pump cable F604708

Part no.	TYPE	Supply voltage	Reservoir	Capacity reservoir	Pumping element	Low level	Description
F812511	GPA	24V	Paddle	2.5L	Type 6 (1x)	Yes	Pump Kit 24V PAD-LS 2,5L
F812507	GPA	24V	Paddle	2.5L	Type 6 (1x)	No	Pump Kit 24V PAD 2,5L
F836947	GPA	24V	Paddle	2.5L	Type 6 (0x)	Yes	Pump kit 24V-2.5LP-3.0-LS
F812512	GPA	24V	Paddle	5L	Type 6 (1x)	Yes	Pump Kit 24V PAD-LS 5L
F812508	GPA	24V	Paddle	5L	Type 6 (1x)	No	Pump kit 24V PAD 5L
F836957	GPA	24V	Paddle	5L	Type 6 (0x)	Yes	Pump kit 24V-5LPAD-3.0-LS
F812513	GPA	24V	Paddle	8L	Type 6 (1x)	Yes	Pump Kit 24V PAD-LS 8L
F812509	GPA	24V	Paddle	8L	Type 6 (1x)	No	Pump Kit 24V PAD 8L
F836986	GPA	24V	Paddle	8L	Type 6 (0x)	Yes	Pump kit 24V-8LPAD-3.0-LS
F812517	GPA	24V	Cartridge	3L	Type 6 (1x)	Yes	Pump Kit 24V CAR-LS 3L
F812514	GPA	24V	Follow	3L	Type 6 (1x)	Yes	Pump Kit 24V FOL-LS 3L
F812515	GPA	24V	Follow	5L	Type 6 (1x)	Yes	Pump Kit 24V FOL-LS 5L
F812516	GPA	24V	Follow	8L	Type 6 (1x)	Yes	Pump Kit 24V FOL-LS 8L

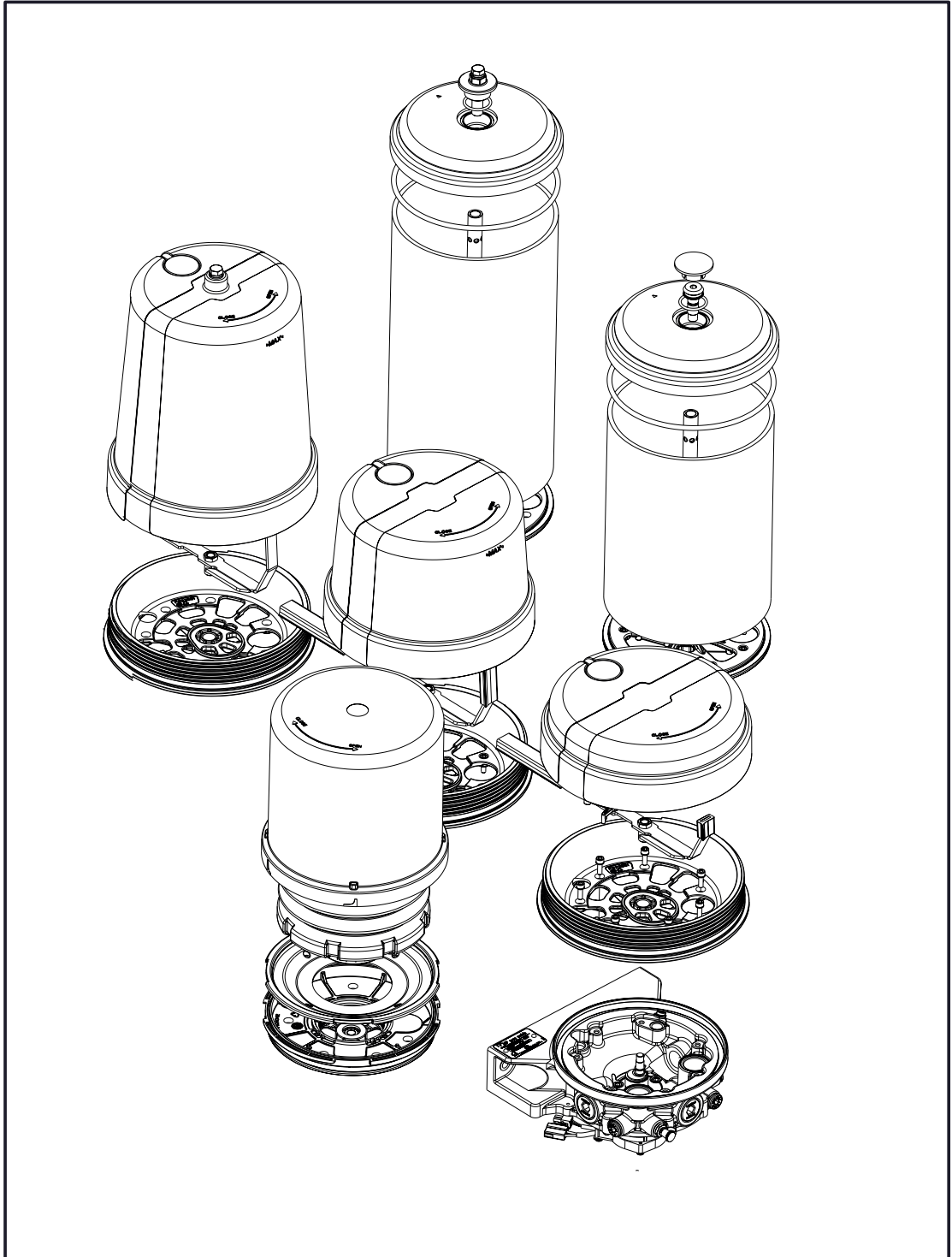
1.9 GPA pump with external press relieve valve

Part no.	TYPE	Supply voltage	Reservoir	Capacity reservoir	Pumping element	Low level	Description
F844978	GPA	12V	Paddle	2.5L	Type 6 (1x)	Yes	Pump kit 12V-2.5L P-3.1-LS
F844985	GPA	12V	Paddle	5L	Type 6 (1x)	Yes	Pump kit 12V-5L P-3.1-LS
F844986	GPA	12V	Paddle	8L	Type 6 (1x)	Yes	Pump kit 12V-8L P-3.1-LS
F844955	GPA	24V	Paddle	2.5	Type 6 (1x)	Yes	Pump kit 24V-2.5L P-3.1-LS
F844957	GPA	24V	Paddle	5L	Type 6 (1x)	Yes	Pump kit 24V-5L P-3.1-LS
F844977	GPA	24V	Paddle	8L	Type 6 (1x)	Yes	Pump kit 24V-8L P-3.1-LS

1.8 GPA kits with external press relieve valve and pump cable F604708

Part no.	TYPE	Supply voltage	Reservoir	Capacity reservoir	Pumping element	Low level	Description
F822311	GPA	12V	Paddle	2.5L	Type 6 (1x)	Yes	Pump kit 12V-2.5L P-3.1-LS
F822312	GPA	12V	Paddle	5L	Type 6 (1x)	Yes	Pump kit 12V-5L P-3.1-LS
F822313	GPA	12V	Paddle	8L	Type 6 (1x)	Yes	Pump kit 12V-8L P-3.1-LS
F822511	GPA	24V	Paddle	2.5L	Type 6 (1x)	Yes	Pump kit 24V-2.5L P-3.1-LS
F822512	GPA	24V	Paddle	5L	Type 6 (1x)	Yes	Pump kit 24V-5L P-3.1-LS
F822513	GPA	24V	Paddle	8L	Type 6 (1x)	Yes	Pump kit 24V-8L P-3.1-LS

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1.10 GPA+ standard pumps

Part no.	TYPE	Supply voltage	Reservoir	Capacity reservoir	Pumping element	Low level	Description
F690927	GPA+	12V	Paddle	2,5L	Type 6 (1x)	No	GPA+ 12V-2.5L-PAD-3.1
F690958	GPA+	12V	Paddle	5L	Type 6 (1x)	No	GPA+ 12V-5L-PAD-3.1
F690961	GPA+	12V	Paddle	8L	Type 6 (1x)	No	GPA+ 12V-8L-PAD-3.1
F797663	GPA+	12V	Paddle	2.5L	Type 6 (1x)	Yes	GPA+ 12V-2.5L-PAD-3.1
F797668	GPA+	12V	Paddle	5L	Type 6 (1x)	Yes	GPA+ 12V-5L-PAD 3.1
F797673	GPA+	12V	Paddle	8L	Type 6 (1x)	Yes	GPA+ 12V-8L-PAD-3.1
F690802	GPA+	12V	Cardridge	3L	Type 6 (1x)	No	GPA+ 12V-3L-CAR-3.1
F792759	GPA+	12V	Cardridge	3L	Type 6 (1x)	Yes	GPA+ 12V-3L-CAR-3.1
F690955	GPA+	12V	Follower	3L	Type 6 (1x)	No	GPA+ 12V-3L-FOL-3.1
F792651	GPA+	12V	Follower	3L	Type 6 (1x)	Yes	GPA+ 12V-3L-FOL-3.1
F690918	GPA+	12V	Follower	5L	Type 6 (1x)	No	GPA+ 12V-5L-FOL-3.1
F792652	GPA+	12V	Follower	5L	Type 6 (1x)	Yes	GPA+ 12V-5L-FOL-3.1
F690922	GPA+	12V	Follower	8L	Type 6 (1x)	No	GPA+ 12V-8L-FOL-3.1
F792653	GPA+	12V	Follower	8L	Type 6 (1x)	Yes	GPA+ 12V-8L-FOL-3.1
F683185	GPA+	24V	Paddle	2.5L	Type 6 (1x)	No	GPA+ 24V-2,5L-PAD-3.1
F792825	GPA+	24V	Paddle	2.5L	Type 6 (1x)	Yes	GPA+ 24V-2.5L-PAD-3.1
F820145	GPA+	24V	Paddle	2.5L	Type 6 (2x)	Yes	GPA+ 24V-2.5L-PAD-3.2
F636306	GPA+	24V	Paddle	5L	Type 6 (1x)	No	GPA+ 24V-5L-PAD-3.1
F792827	GPA+	24V	Paddle	5L	Type 6 (1x)	Yes	GPA+ 24V-5L-PAD-3.1
F789251	GPA+	24V	Paddle	5L	Type 6 (3x)	Yes	GPA+ 24V-5L-PAD-3.3
F681863	GPA+	24V	Paddle	8L	Type 6 (1x)	No	GPA+ 24V-8L-PAD-3.3
F791601	GPA+	24V	Paddle	8L	Type 6 (1x)	Yes	GPA+ 24V-8L-PAD-3.1
F686781	GPA+	24V	Cartridge	3L	Type 6 (1x)	Yes	GPA+ 24V-3L-CAR-3.1
F792525	GPA+	24V	Cartridge	3L	Type 6 (1x)	Yes	GPA+ 24V-3L-CAR-3.1
F681831	GPA+	24V	Follower	3L	Type 6 (1x)	No	GPA+ 24V-3L-FOL-3.1
F792499	GPA+	24V	Follower	3L	Type 6 (1x)	Yes	GPA+ 24V-3L-FOL-3.1
F681798	GPA+	24V	Follower	5L	Type 6 (1x)	No	GPA+ 24V-5L-FOL-3.1
F792597	GPA+	24V	Follower	5L	Type 6 (1x)	Yes	GPA+ 24V-5L-FOL-3.1
F681803	GPA+	24V	Follower	8L	Type 6 (1x)	No	GPA+ 24V-8L-FOL-3.1
F792609	GPA+	24V	Follower	8L	Type 6 (1x)	Yes	GPA+ 24V-8L-FOL-3.1

Release date: February 2023

1.11 GPA+ pump with external press relieve valve

<i>Part no.</i>	<i>TYPE</i>	<i>Supply voltage</i>	<i>Reservoir</i>	<i>Capacity reservoir</i>	<i>Pumping element</i>	<i>Low level</i>	<i>Description</i>
F845003	GPA+	12V	Paddle	2.5L	Type 6 (1x)	Yes	Pump 12V-2.5L P-3.1-LS
F845012	GPA+	12V	Paddle	5L	Type 6 (1x)	Yes	Pump 12V-5L P-3.1-LS
F845013	GPA+	12V	Paddle	8L	Type 6 (1x)	Yes	Pump 12V-8L P-3.1-LS
F844994	GPA+	24V	Paddle	2.5	Type 6 (1x)	Yes	Pump 24V-2.5L P-3.1-LS
F844995	GPA+	24V	Paddle	5L	Type 6 (1x)	Yes	Pump 24V-5L P-3.1-LS
F844998	GPA+	24V	Paddle	8L	Type 6 (1x)	Yes	Pump 24V-8L P-3.1-LS

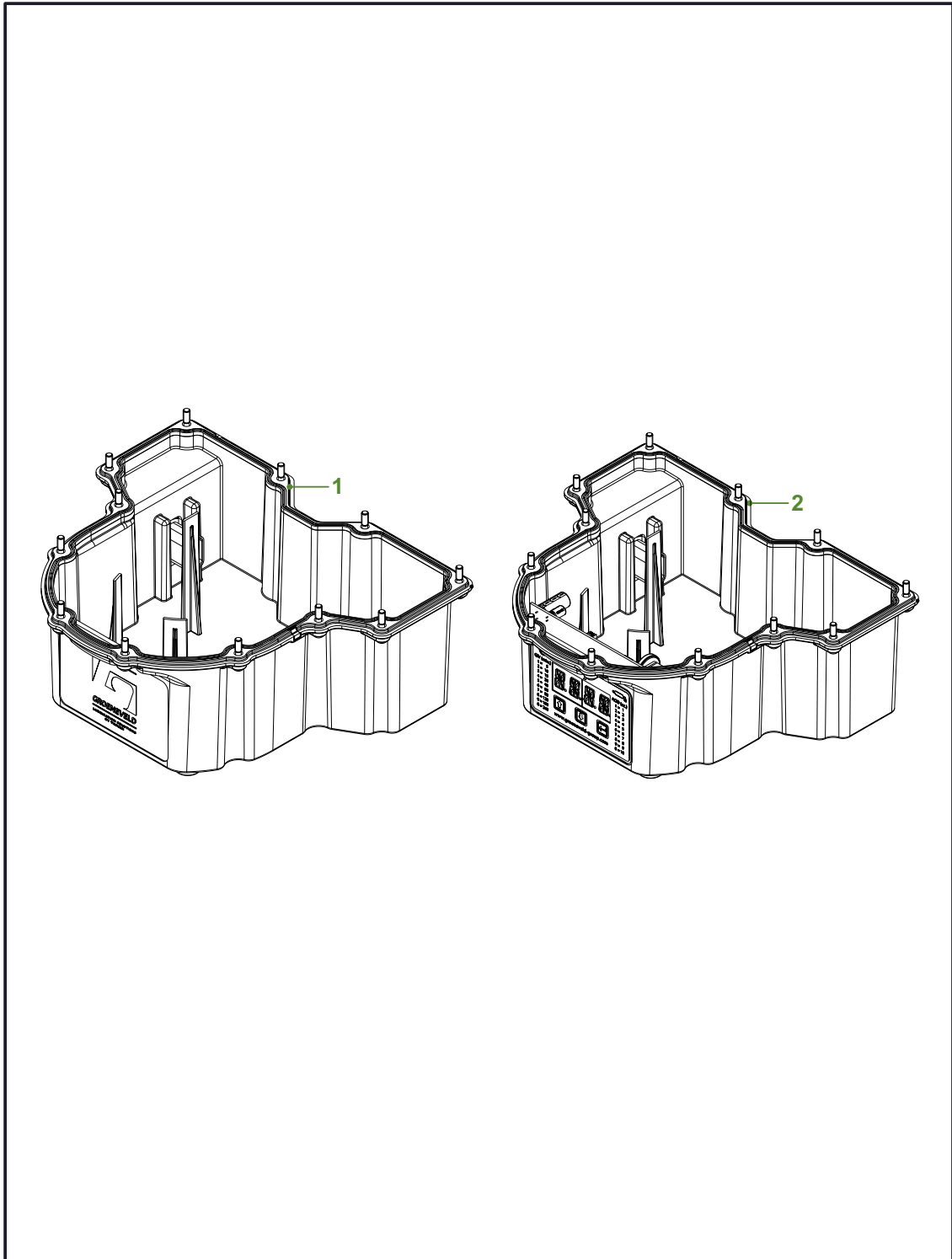
1.12 GPA+ standard pumps kits with pump cable F604708

Part no.	TYPE	Supply voltage	Reservoir	Capacity reservoir	Pumping element	Low level	Description
F812321	GPA+	12V	Paddle	2.5L	Type 6 (1x)	Yes	Pump kit 12V PAD-LS 2,5L
F812318	GPA+	12V	Paddle	2.5L	Type 6 (1x)	No	Pump Kit 12V PAD 2,5L
F812322	GPA+	12V	Paddle	5L	Type 6 (1x)	Yes	Pump Kit 12V PAD-LS 5L
F812319	GPA+	12V	Paddle	5L	Type 6 (1x)	No	Pump Kit 12V PAD 5L
F812323	GPA+	12V	Paddle	8L	Type 6 (1x)	Yes	Pump Kit 12V PAD-LS 8L
F812320	GPA+	12V	Paddle	8L	Type 6 (1x)	No	Pump Kit 12V PAD 8L
F812327	GPA+	12V	Cardridge	3L	Type 6 (1x)	Yes	Pump Kit 12V CAR-LS 3L
F812324	GPA+	12V	Follower	3L	Type 6 (1x)	Yes	Pump kit 12V FOL-LS 3L
F812325	GPA+	12V	Follower	5L	Type 6 (1x)	Yes	Pump kit 12V FOL-LS 5L
F812326	GPA+	12V	Follower	8L	Type 6 (1x)	Yes	Pump kit 12V FOL-LS 8L
F812521	GPA+	24V	Paddle	2.5L	Type 6 (1x)	Yes	Pump Kit 24V PAD-LS 2,5L
F812518	GPA+	24V	Paddle	2.5	Type 6 (1x)	No	Pump Kit 24V PAD 2,5L
F836991	GPA+	24V	Paddle	2.5L	Type 6 (0x)	Yes	Pump kit 24V-2.5LP-3.0-LS
F812522	GPA+	24V	Paddle	5L	Type 6 (1x)	Yes	Pump kit 24V PAD-LS 5L
F812519	GPA+	24V	Paddle	5L	Type 6 (1x)	No	Pump Kit 24V PAD 5L
F837010	GPA+	24V	Paddle	5L	Type 6 (0x)	Yes	Pump kit 24V-5LP-3.0-LS
F837011	GPA+	24V	Paddle	8L	Type 6 (0x)	Yes	Pump kit 24V-8LP-3.0-LS
F812523	GPA+	24V	Paddle	8L	Type 6 (1x)	Yes	Pump kit 24V PAD-LS 8L
F812520	GPA+	24V	Paddle	8L	Type 6 (1x)	No	Pump Kit 24V PAD 8L
F812527	GPA+	24V	Cardridge	3L	Type 6 (1x)	Yes	Pump Kit 24V CAR-LS 3L
F812524	GPA+	24V	Follower	3L	Type 6 (1x)	Yes	Pump Kit 24V FOL-LS 3L
F812525	GPA+	24V	Follower	5L	Type 6 (1x)	Yes	Pump Kit 24V FOL-LS-5L
F812526	GPA+	24V	Follower	8L	Type 6 (1x)	Yes	Pump Kit 24V FOL-LS 8L

1.13 GPA+ kits with external press relieve valve and pump cable F604708

Part no.	TYPE	Supply voltage	Reservoir	Capacity reservoir	Pumping element	Low level	Description
F822321	GPA+	12V	Paddle	2.5L	Type 6 (1x)	Yes	Pump kit 12V-2.5L P-3.1-LS
F822322	GPA+	12V	Paddle	5L	Type 6 (1x)	Yes	Pump kit 12V-5L P-3.1-LS
F822323	GPA+	12V	Paddle	8L	Type 6 (1x)	Yes	Pump kit 12V-8L P-3.1-LS
F822521	GPA+	24V	Paddle	2.5	Type 6 (1x)	Yes	Pump kit 24V-2.5L P-3.1-LS
F822522	GPA+	24V	Paddle	5L	Type 6 (1x)	Yes	Pump kit 24V-5L P-3.1-LS
F822523	GPA+	24V	Paddle	8L	Type 6 (1x)	Yes	Pump kit 24V-8L P-3.1-LS

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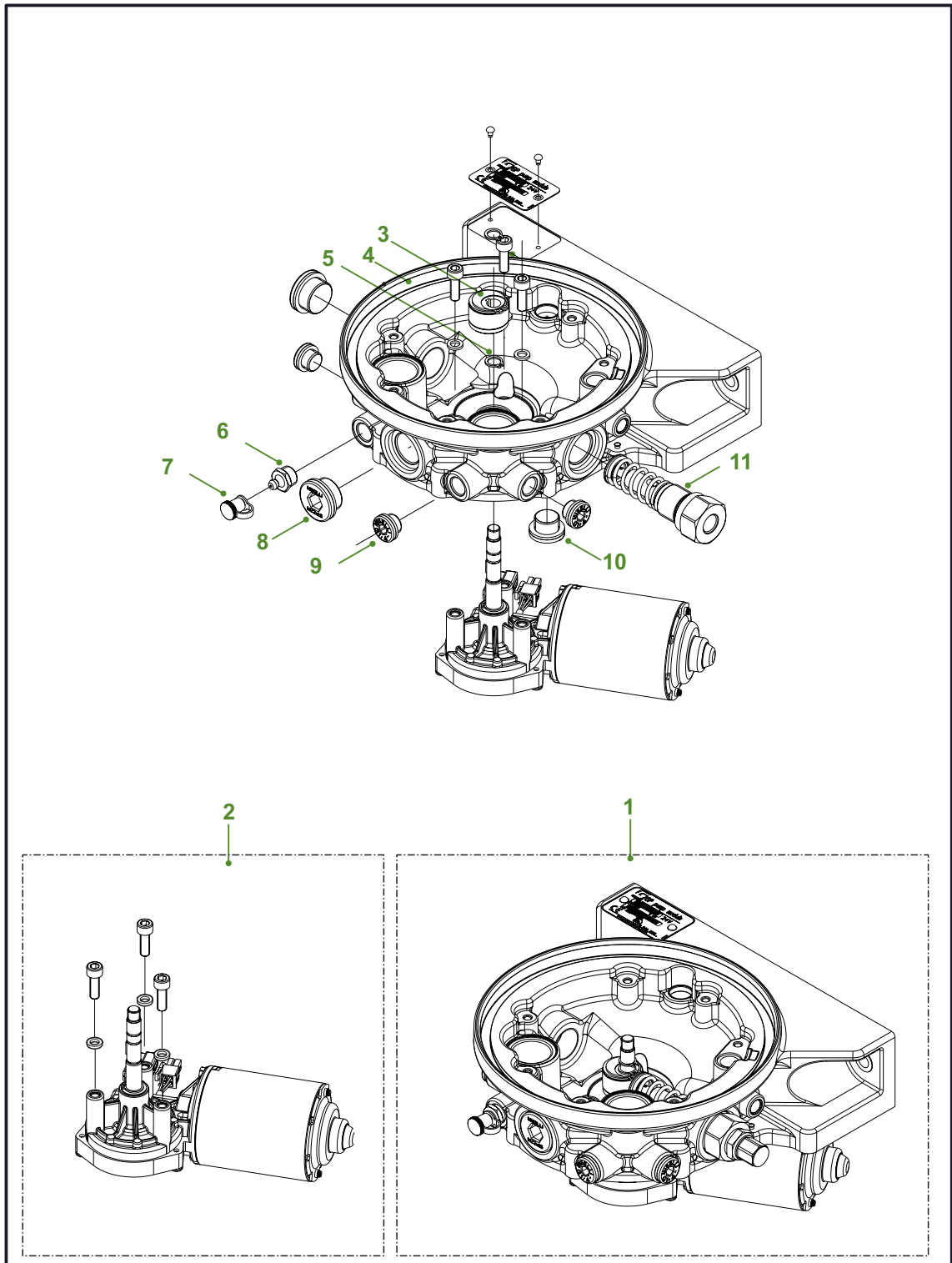


Release date: February 2023

1.14 GPA-GPA+ LOWER MODULE

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F744824	Lower module kit GPA
2	F744827	Lower module kit GPA+

Release date: February 2023

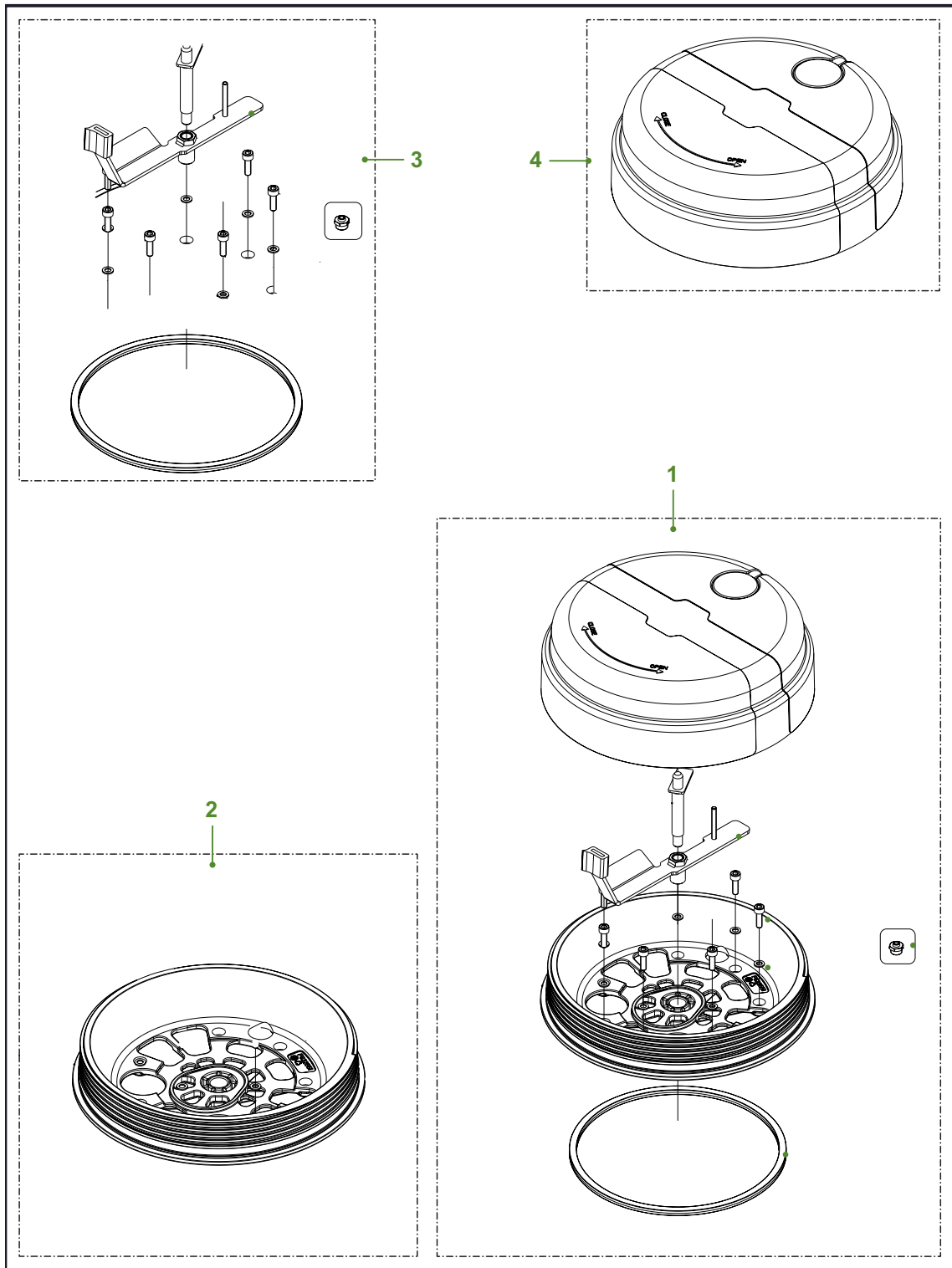


Release date: February 2023

1.15 GPA-GPA+ Central Modules

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F624337	GP pump module 12V-6-3.1
	F623365	GP pump module 24V-6-3.1
2	F771759	Kit gearmotor 12V GP
	F771760	Kit gearmotor 24V GP
3	F624316	Assembled cam
4	F690692	GP pump body CPL
5	F110120	Uni 7435 ring 9
6	F606528	S-greaser 1/4" Gas
7	F604614	Dustcap filler coupling PI6L
8	F624773	Plug with gasket M22x1.5-PA66
9	F647014	Plug with gasket G1/4"-PA66
10	F647112	Plug with gasket M16x1.5-PA66
11	F622552	GP pumping unit 6

Release date: February 2023

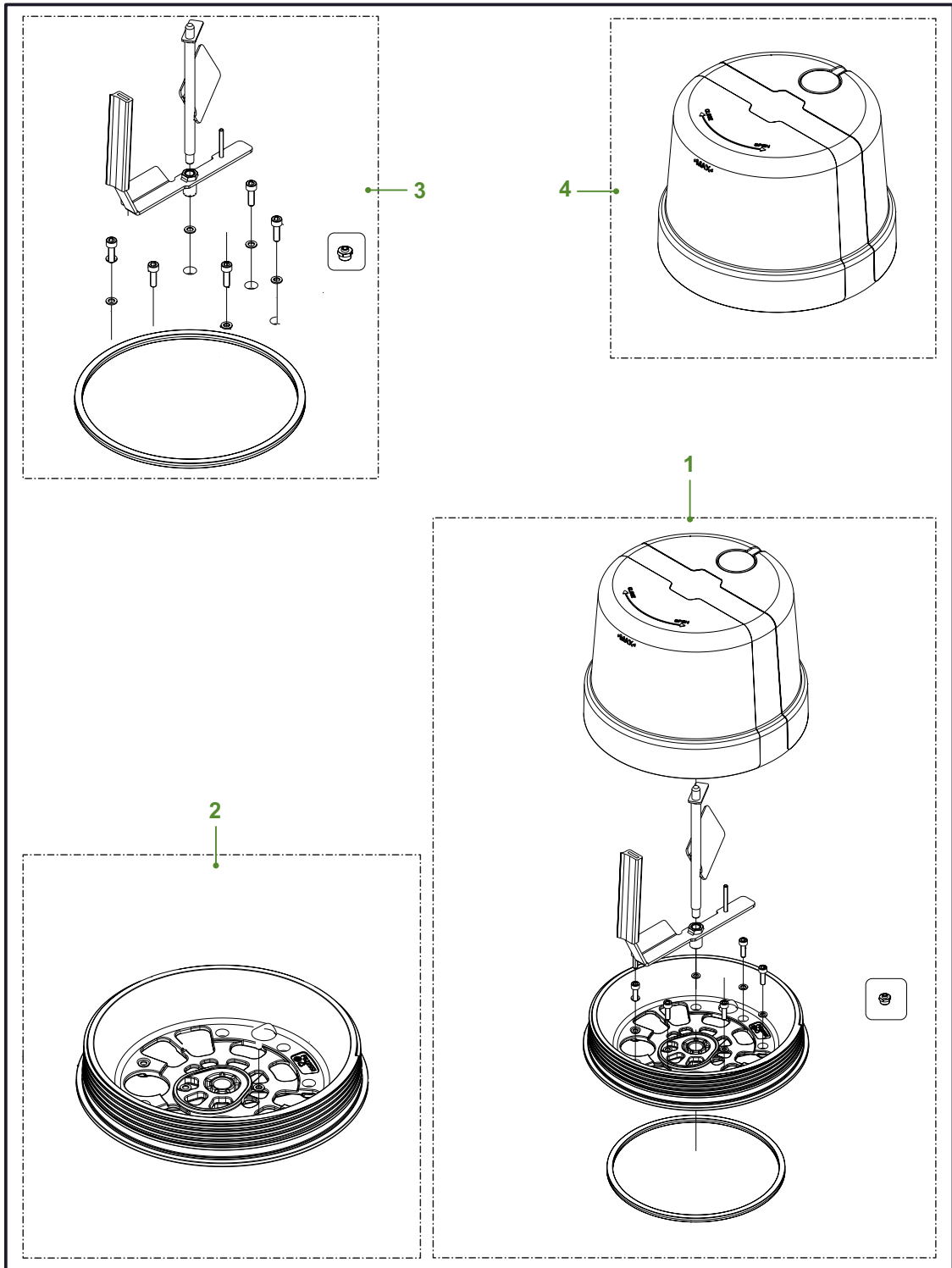


Release date: February 2023

1.16 GPA-GPA+ Upper Modules

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F744996	2.5L Paddle module kit
2	F632552	GP/GT bearing support PAD CPL
3	F745030	2.5L paddle parts kit
4	F627815	2.5L tapered reservoir CPL

Release date: February 2023

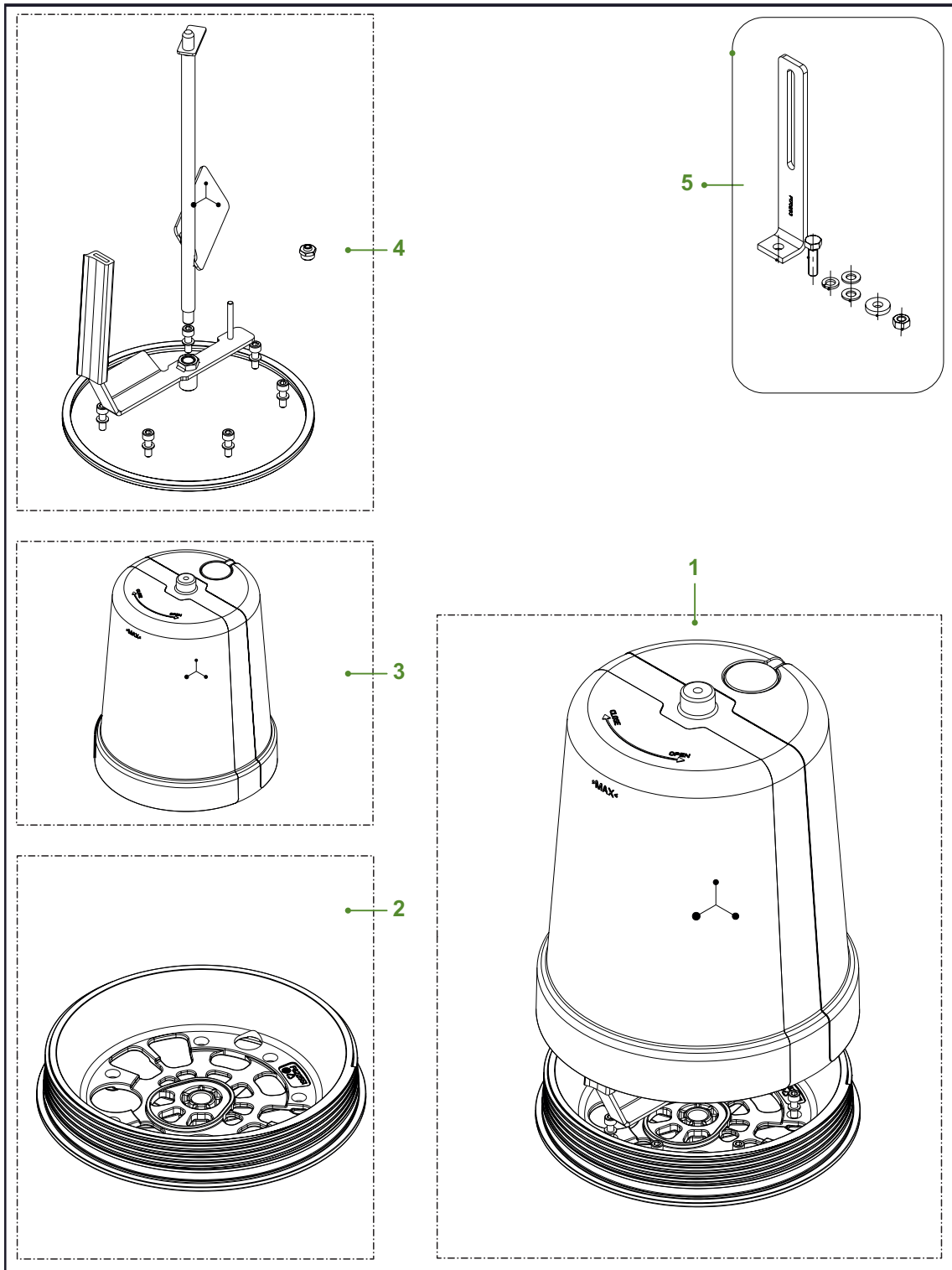


Release date: February 2023

1.17 GPA-GPA+ Upper Modules

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F744983	5L Paddle module kit
2	F632552	GP/GT bearing support PAD CPL
3	F745029	5L paddle parts kit
4	F624986	5L tapered reservoir CPL

Release date: February 2023



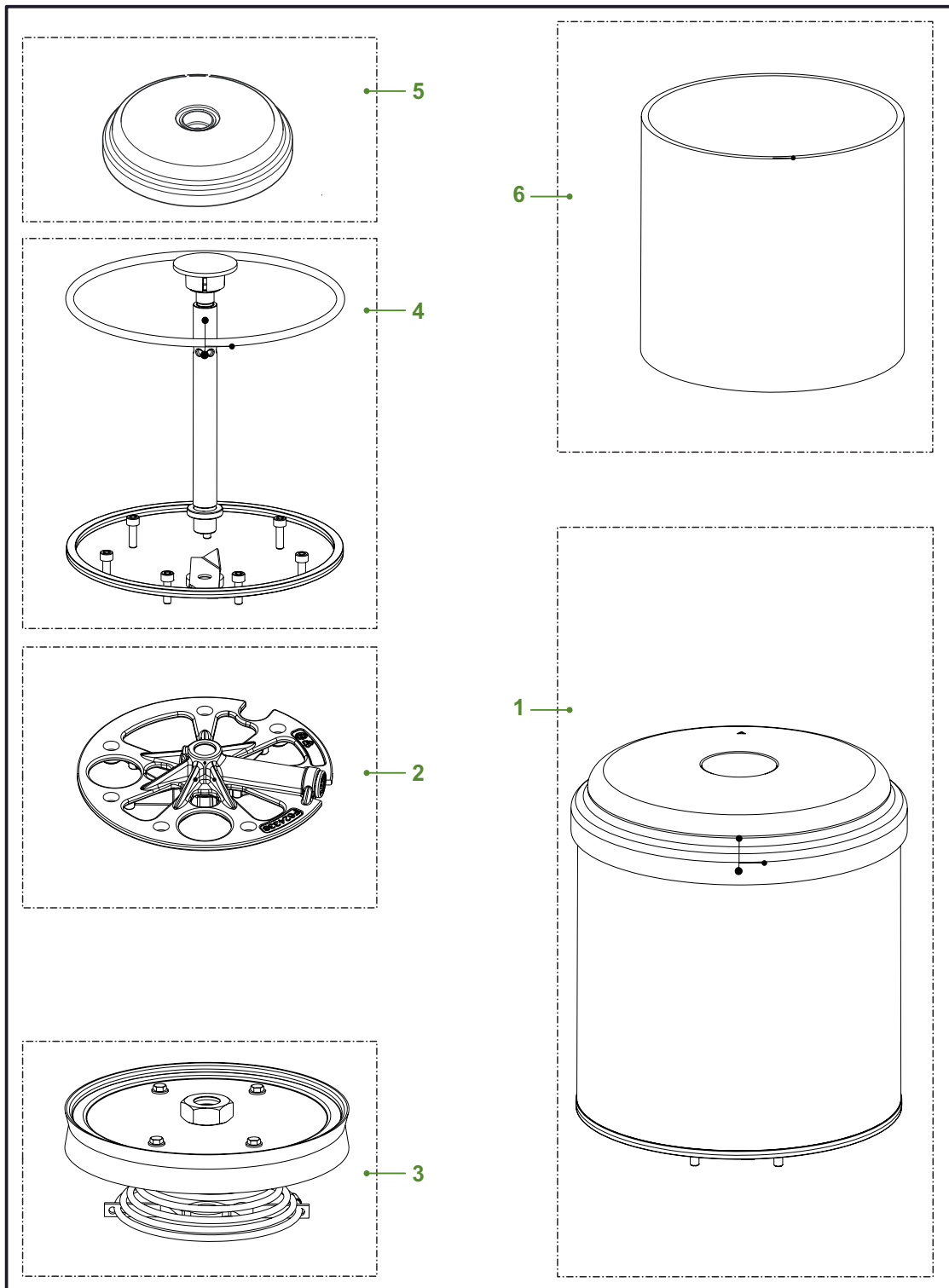
Release date: February 2023

1.18 GPA-GPA+ Upper Modules

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F744956	8L Paddle module kit
2	F632552	GP/GT bearing support PAD CPL
3	F745028	8L tapered reservoir CPL
4	F627781	8L paddle parts kit

1.19 GPA-GPA+ Bracket kit

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
5	F116961	8L Paddle module kit

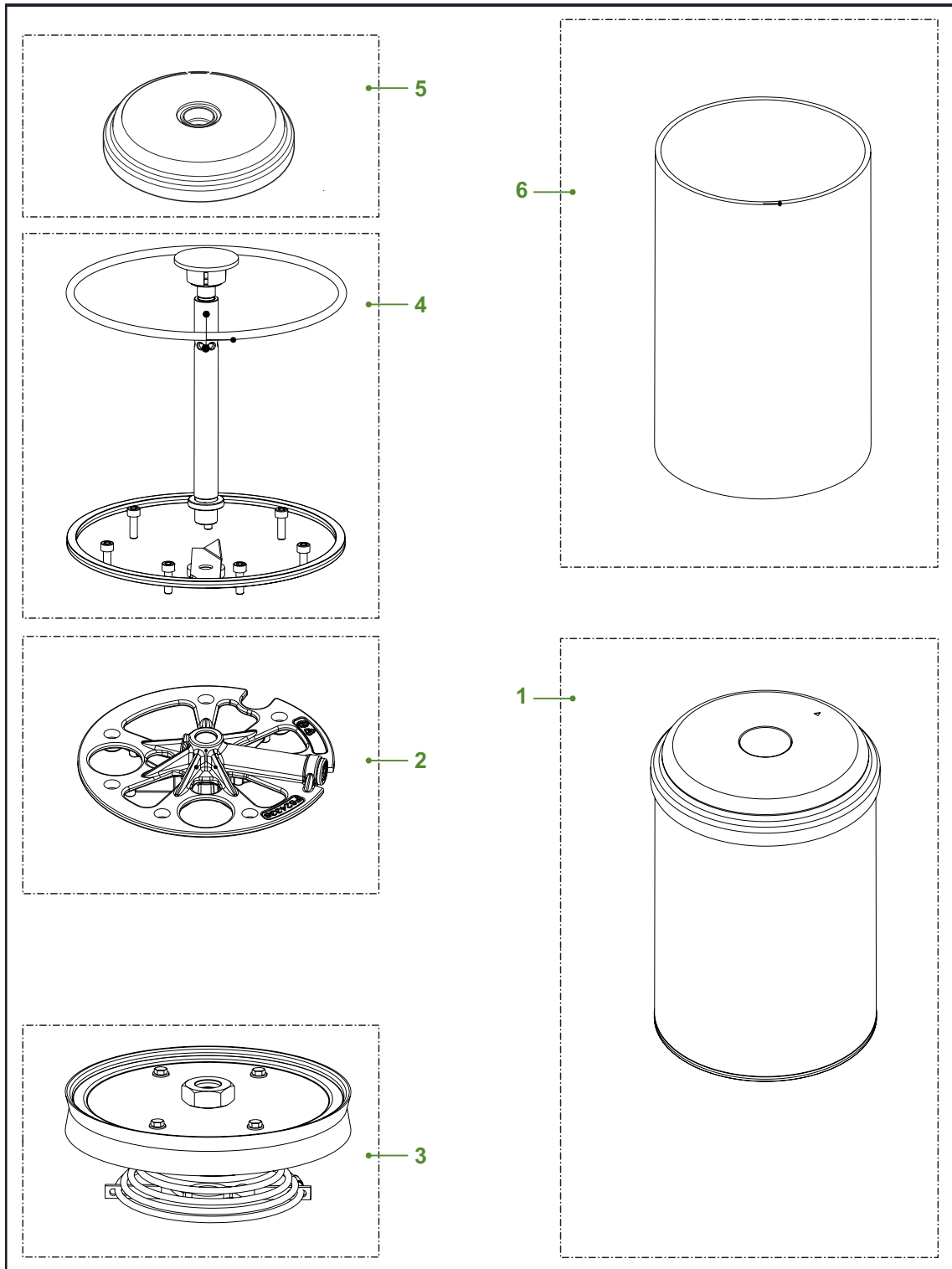


Release date: February 2023

1.20 GPA-GPA+ 3L follower module kit

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F744947	3L follower module kit
2	F624347	GP/GT bearing support FOL CPL
3	F126411	Follower disk complete
4	F745013	3L follower parts kkit
5	F103049	Reservoir cover
6	F103061	Reservoir 175x185x170

Release date: February 2023

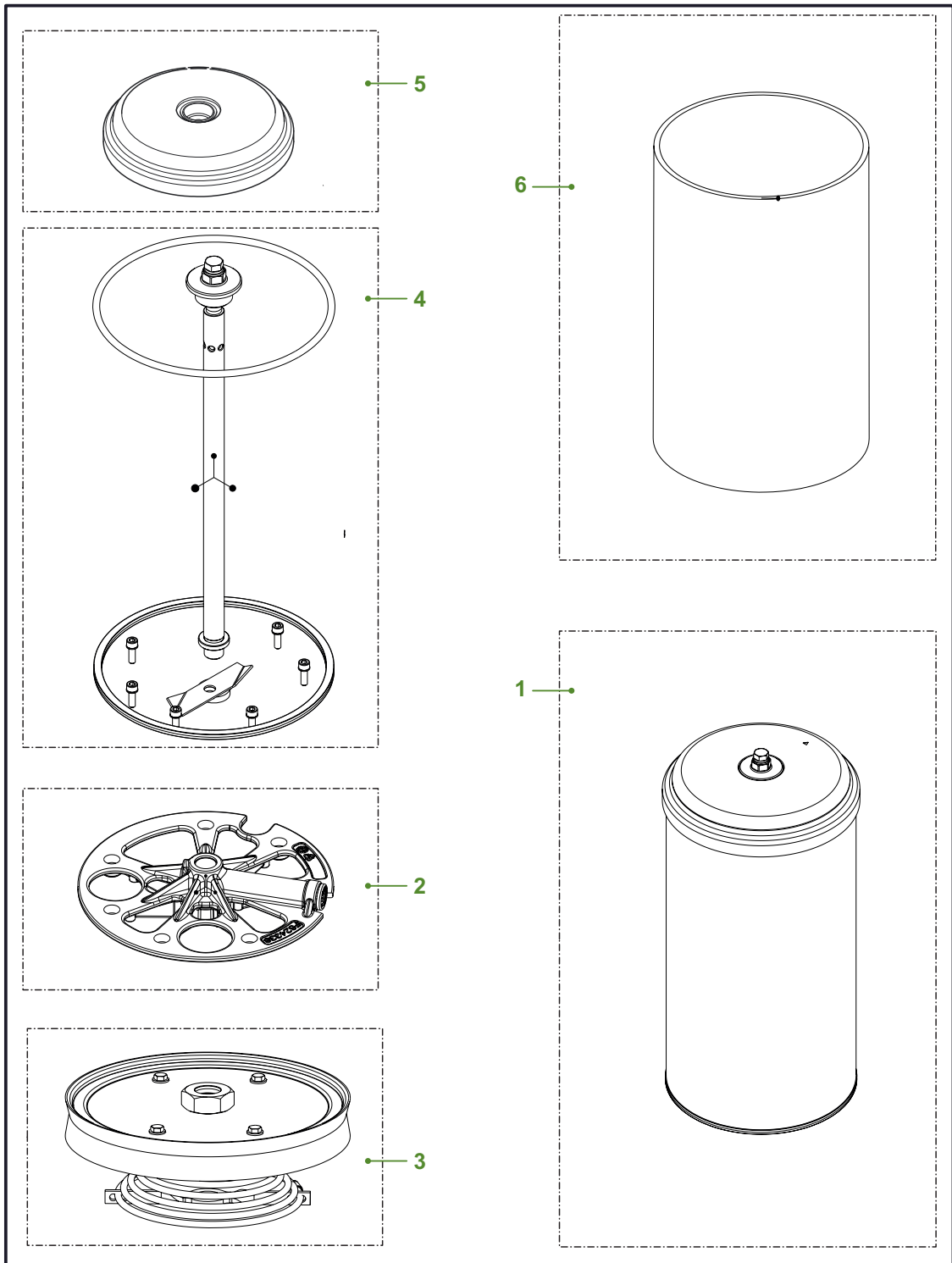


Release date: February 2023

1.21 GPA-GPA+ 5L follower module kit

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F744942	5L follower module kit
2	F624347	GP/GT bearing support FOL CPL
3	F126411	Follower disk complete
4	F745011	5L follower parts kit
5	F103049	Reservoir cover
6	F111410	Reservoir 175x185x170

Release date: February 2023

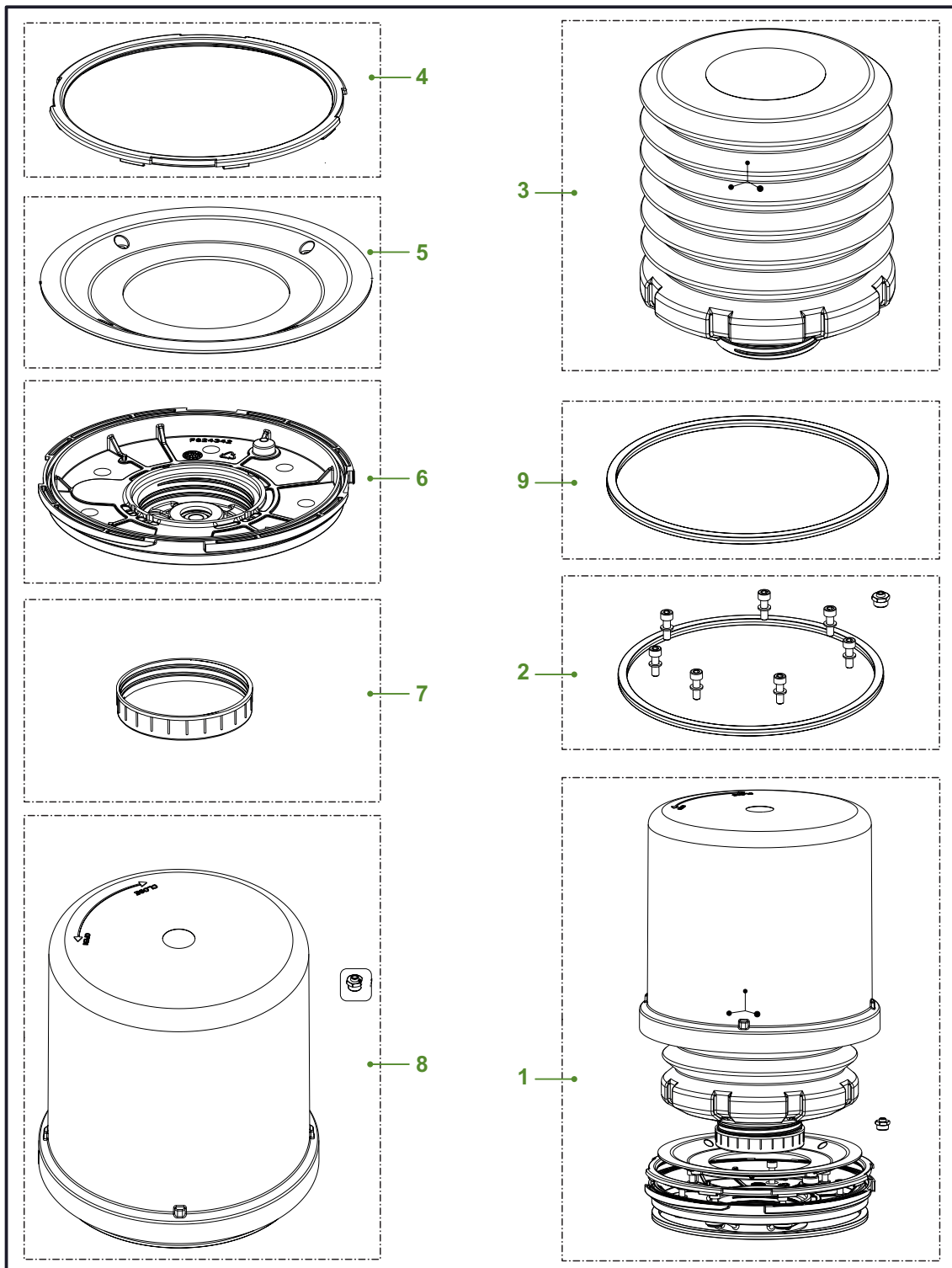


Release date: February 2023

1.22 GPA-GPA+ 8L follower module kit

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F744930	8L follower module kit
2	F624347	GP/GT bearing support FOL CPL
3	F126411	Follower disk complete
4	F744925	8L follower parts kit
5	F103049	Reservoir cover
6	F100286	Reservoir 8L

Release date: February 2023

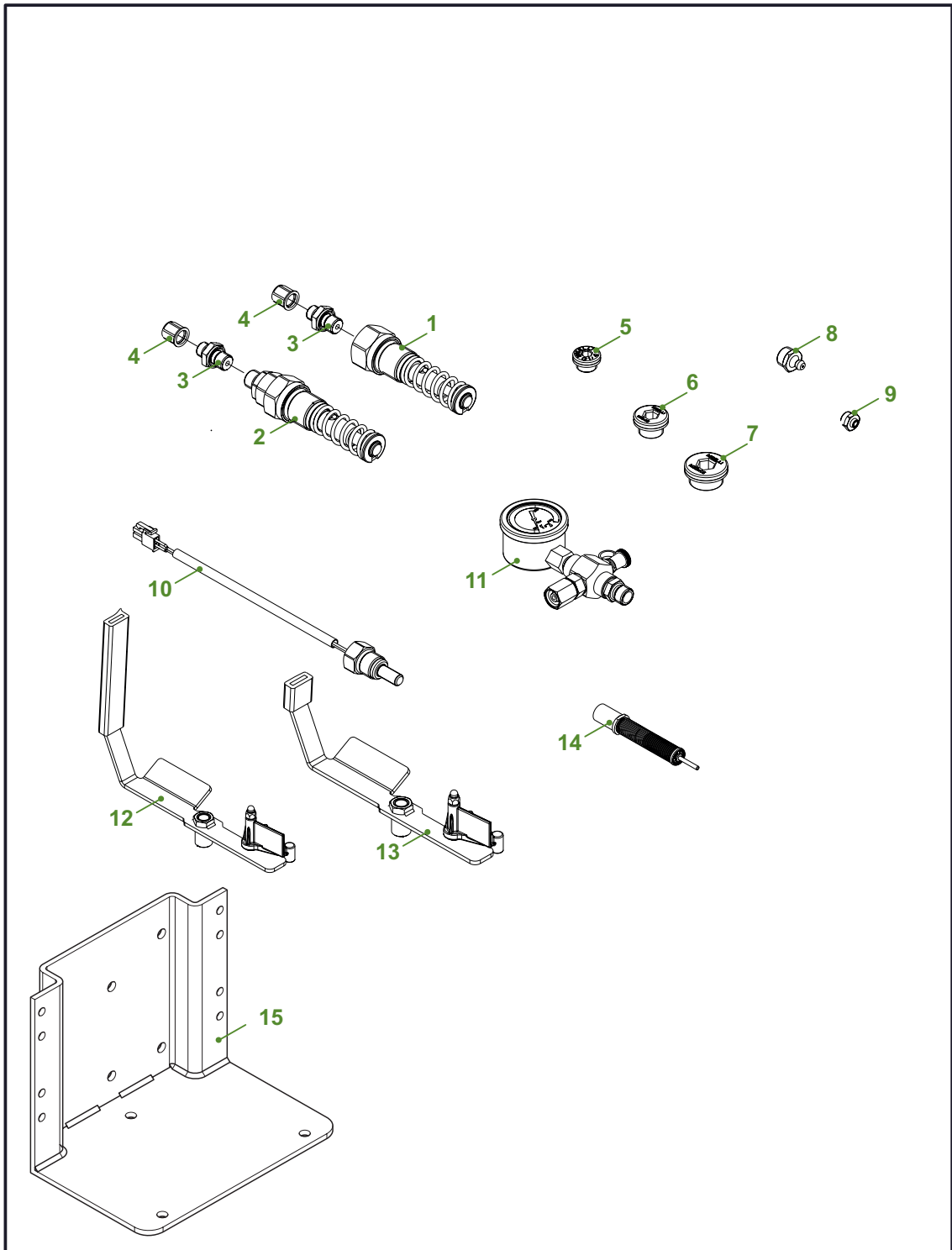


Release date: February 2023

1.23 GPA-GPA+ 3L Cartridge module kit

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F744995	3L Cartridge module kit
2	F745032	3Lcartridge parts kit
3	F604257	Complete cartridge 3L
4	F604198	Gasket reservoir cartridge 3L
5	F605528	Cover
6	F685821	GP/GT bearing support CAR CPL
7	F605630	Plug 74x15
8	F624341	Cartridge cover 3L CPL
9	F606550	Gasket 174x5-NBR

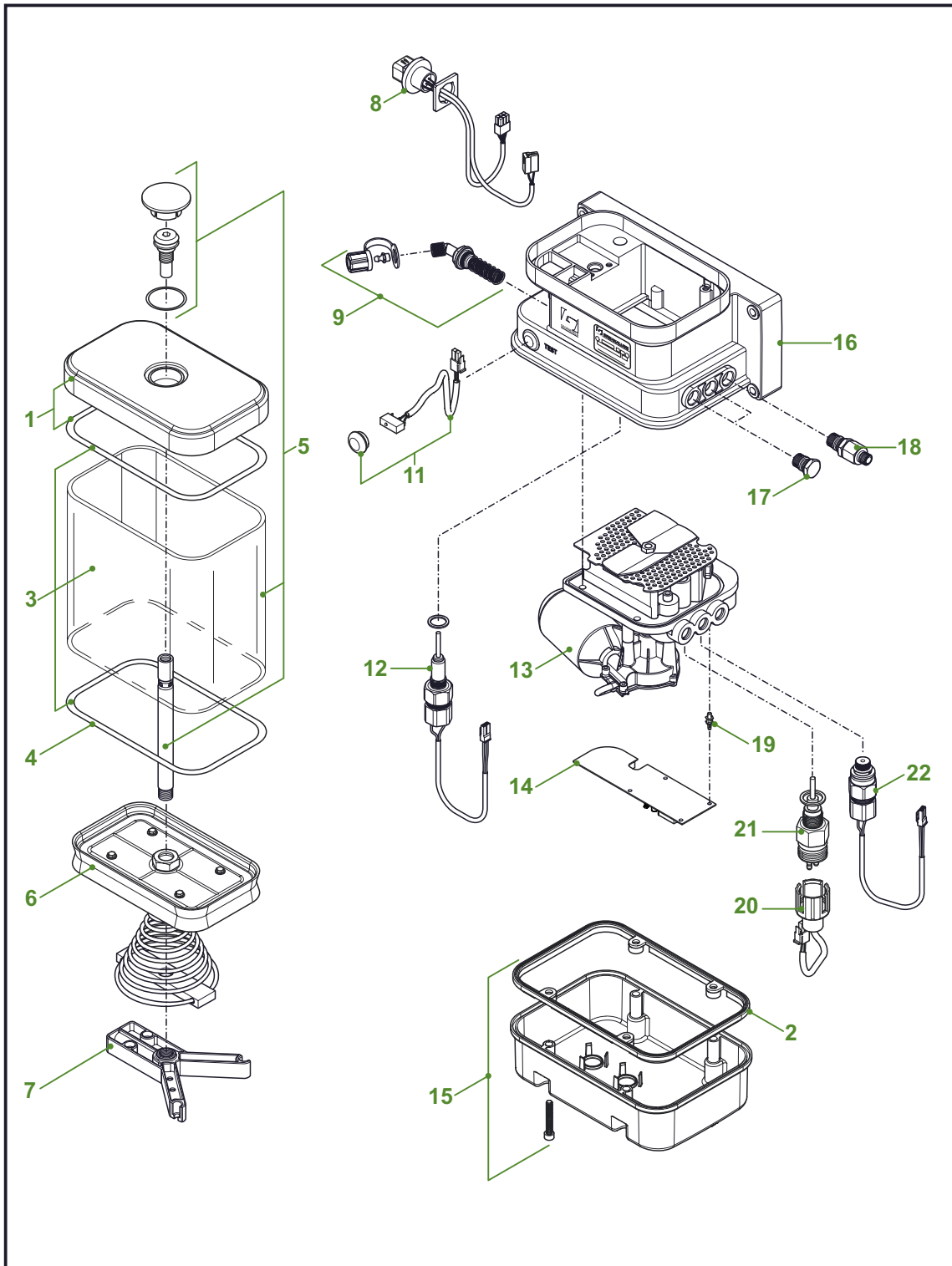
Release date: February 2023



Release date: February 2023

1.24 GPA-GPA+ Components and Accessories

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F622552	GP Pumping unit 6
2	F622554	Adjustable pumping unit 8
3	F679502	Body male st-6-G1/4-ST
4	F606163	Complete dust plug M12x1.5
5	F647014	Plug with gasket G1/4" -PA66
6	F647112	Plug with gasket M16x1,5-PA66
7	F624773	Plug with gasket M22x1,5-PA66
8	F606528	S-greaser 1/4" GAS
9	F617472	Relief fitting art.304
10	F624777	Low level sensor M16x1,5
11	F636332	Outlets G1/8" with manometer
12	F699114	5L Paddle CPL+level sensor
13	F699115	2,5L Paddle CPL+level sensor
14	F624976	Low level sensor FOL
15	F796386	Universal bracket GP



Release date: February 2023

1.25 BreakAlube-3 hammer pumps 4 litres

Part no.	Supply voltage	Capacity reservoir	Number of outlets	Grease delivery	Maximum pressure
F129096 ¹⁾	12 Vdc	4 litres	1	4 cc/min	275 bar
F129072 ¹⁾	24 Vdc	4 litres	1	4 cc/min	275 bar
F129095 ²⁾	24 Vdc	4 litres	1	4 cc/min	275 bar

Pos	Part no.	Description	Pos	Part no.	Description
1	F112915	Cover Inc. O-ring	13	F600581	Pump unit 12 Vdc
2	F120711	Gasket bottom cover		F129105	Pump unit 24 Vdc
3	F172548	Reservoir 4 litre	14	F130186	Timer 12 / 24 Vdc
4	F111856	O-ring	15	F112864	Bottom cover
5	F121160	Shaft kit 4 l reservoir	16	F112320	Pump body
6	F127230	Follower plate 4 l	17	F112265	Pump outlet plug
7	F115745	Support kit	18	F113672	Pump outlet M12x1.5
8	F129103	Cable harness	19	F111296	Timer clip
9	F118171	Grease filter kit	20	F129115	Cable harness
11	F170210	Test switch kit	21	F120571	Pressure switch 20 bar
12	F601391	Low level sensor	22	F129108	Relief valve 300 bar

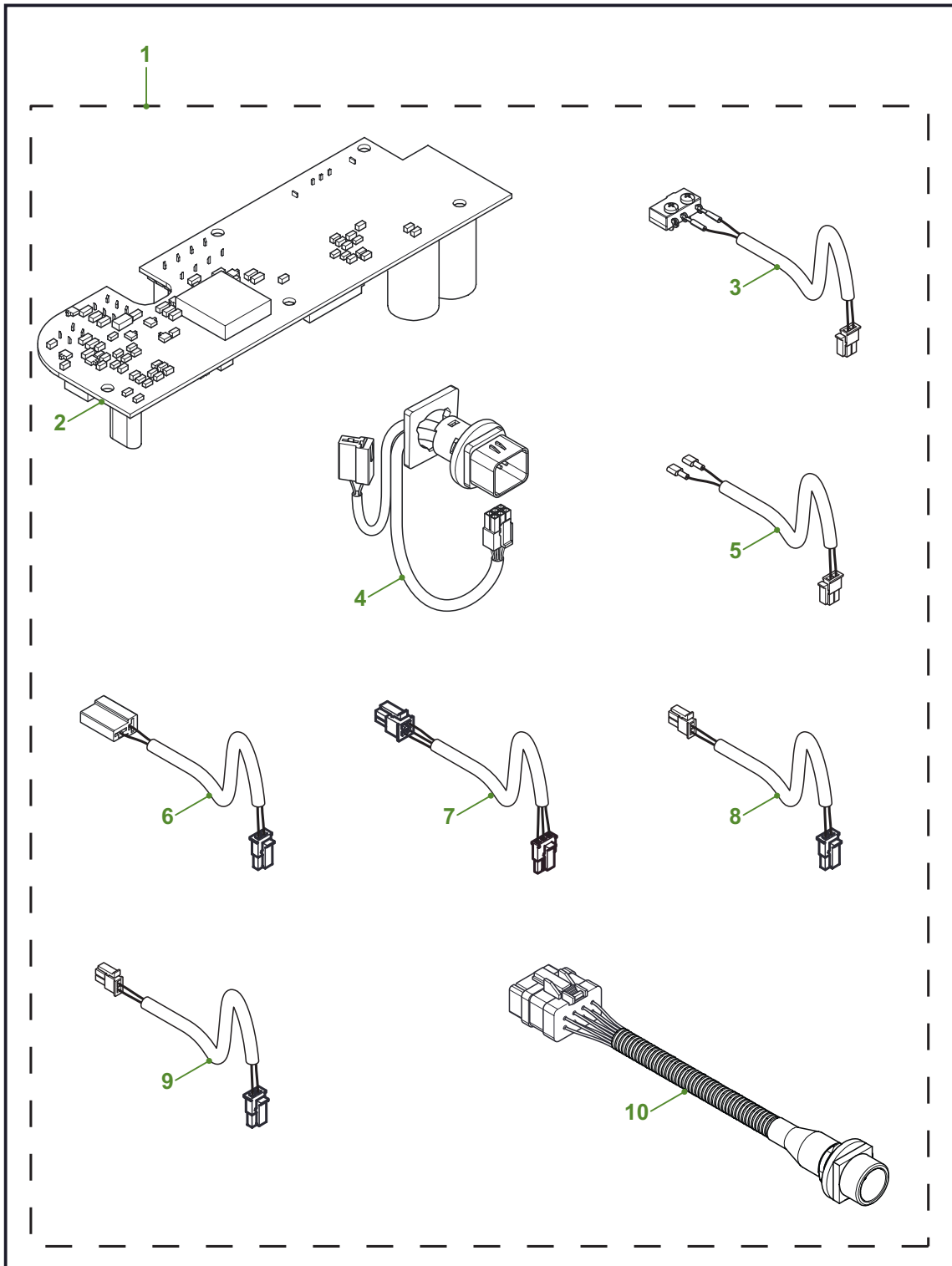
¹⁾ Pump including grease.

²⁾ Pump excluding grease.

ATTENTION !

You can NOT extend the BreakAlube pump with a progressive divider block(s), because the type of grease (addition with copper) is used for the hammerlube.





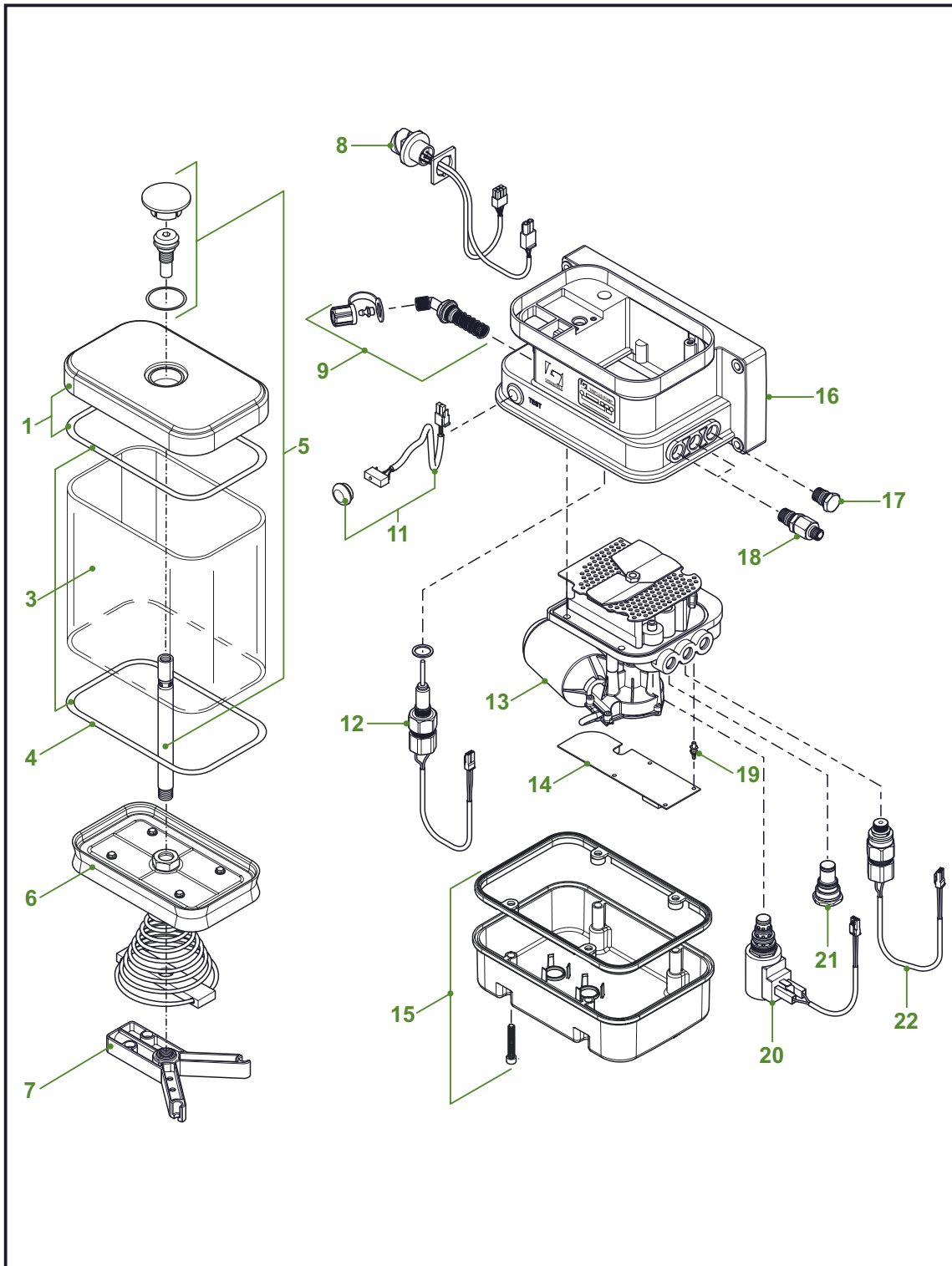
Release date: February 2023

1.26 Repair kit TriPlus-2 -> TriPlus-3 timer (truck)

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>	<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F212093	Repair kit complete	6	F212089	Cable pump motor
2	F130186	Timer 12 /24 Vdc	7	F212090	Cable revolution sensor
3	F170210	Test switch kit	8	F212091	Cable low level sensor
4	F129100	TriPlus-3 cable truck	9	F212092	Cable release valve
5	F129114	Cable 3-way valve (2x)	10	F129671	TriPlus-2 -> 3 cable

1.27 Repair kit TriPlus-2 -> TriPlus-3 timer (trailer)

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>	<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F212094	Repair kit complete	6	F212089	Cable pump motor
2	F130186	Timer 12 /24 Vdc	7	F212090	Cable revolution sensor
3	F170210	Test switch kit	8	F212091	Cable low level sensor
4	F129101	TriPlus-3 cable trailer	9	F212092	Cable release valve
5	F129114	Cable 3-way valve (2x)	10	F129671	TriPlus-2 -> 3 cable



Release date: February 2023

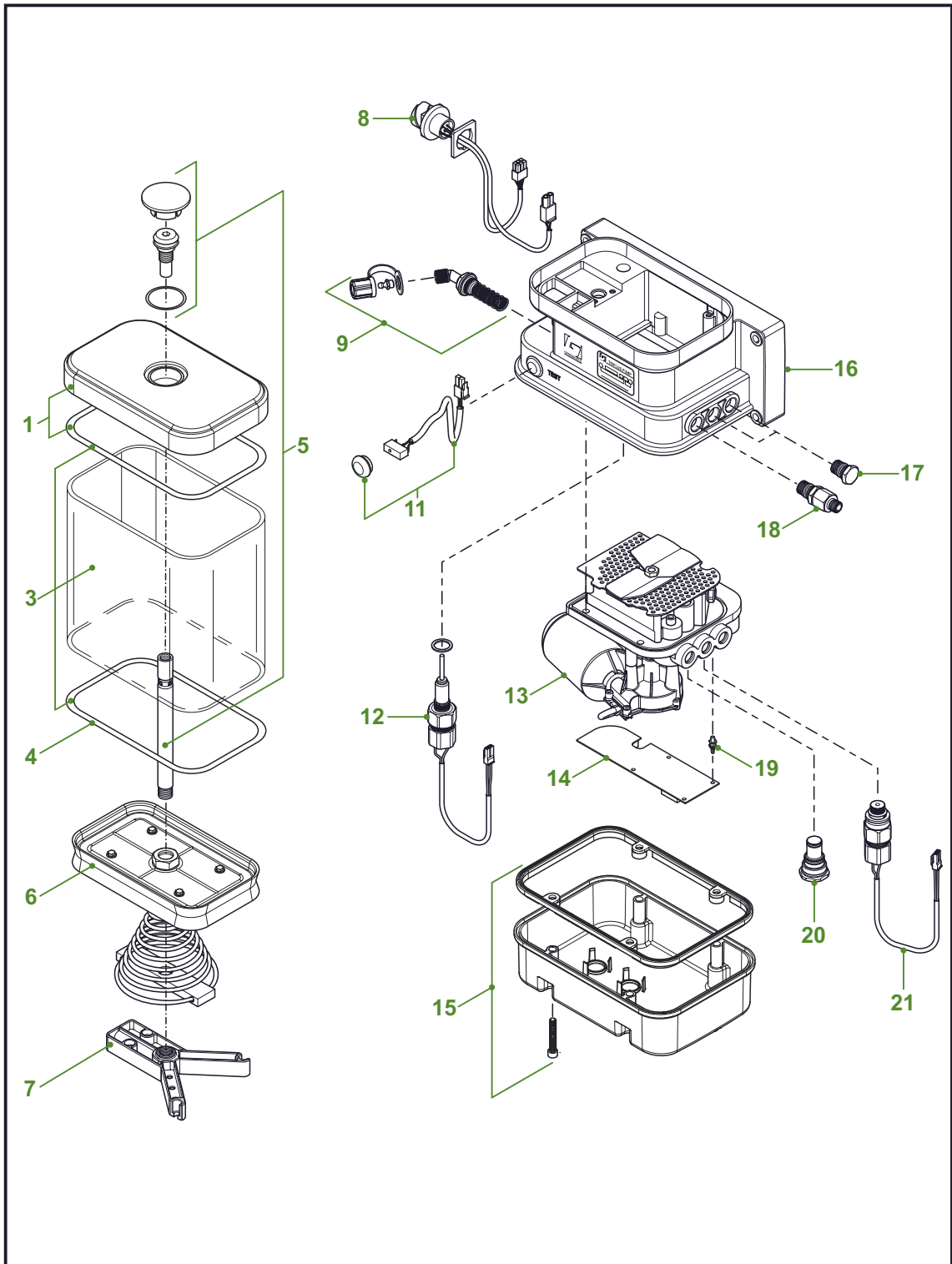
1.28 TriPlus-2 truck pumps 1.5 - 4 litres (expired, replaced by TriPlus-3)

Part no.	Supply voltage	Capacity reservoir	Number of outlets	Grease delivery	Maximum pressure
F120495 ¹⁾	12 Vdc	1.5 litres	2	2.5 cc/min	275 bar
F125351 ¹⁾	24 Vdc	1.5 litres	2	2.5 cc/min	275 bar
F113092 ¹⁾	24 Vdc	2 litres	1	2.5 cc/min	275 bar
F113817 ¹⁾	12 Vdc	3 litres	1	2.5 cc/min	275 bar
F124118 ¹⁾	12 Vdc	3 litres	3	2.5 cc/min	275 bar
F112672 ¹⁾	24 Vdc	3 litres	1	2.5 cc/min	275 bar
F111440 ¹⁾	24 Vdc	3 litres	2	2.5 cc/min	275 bar
F112671 ¹⁾	24 Vdc	3 litres	3	2.5 cc/min	275 bar
F113095 ¹⁾	24 Vdc	4 litres	1	2.5 cc/min	275 bar

Pos	Part no.	Description	Pos	Part no.	Description
1	F112915	Cover Inc. O-ring	11	F170210	Test switch kit
3	F119664	Reservoir kit 1.5 litre	12	F115728	Low level sensor
	F115734	Reservoir kit 2 litre	13	F115762	Pump unit 12 Vdc
	F172547	Reservoir kit 3 litre		F115758	Pump unit 24 Vdc
	F172548	Reservoir kit 4 litre	14	F212093 ²⁾	Timer exchange kit
4	F111856	O-ring	15	F112864	Bottom cover
5	F121176	Shaft kit 1.5 l reservoir	16	F112320	Pump body
	F121177	Shaft kit 2 l reservoir	17	F112265	Pump outlet plug
	F121173	Shaft kit 3 l reservoir	18	F113672	Pump outlet M12x1.5
	F121160	Shaft kit 4 l reservoir	19	F111296	Timer clip
6	F112862	Follower plate 1.5 - 3 l	20	F113821	Outlet kit 12 Vdc
	F127230	Follower plate 4 l		F113820	Outlet kit 24 Vdc
7	F115745	Support kit	21	F112264	Plug
8	F115730	Cable harness	22	F115726	Pressure switch 300bar
9	F118171	Grease filter kit			

¹⁾ These numbers are no longer available, please use TriPlus-3

²⁾ Original timers no longer available this kit replaces the F117099 / F115738 timers



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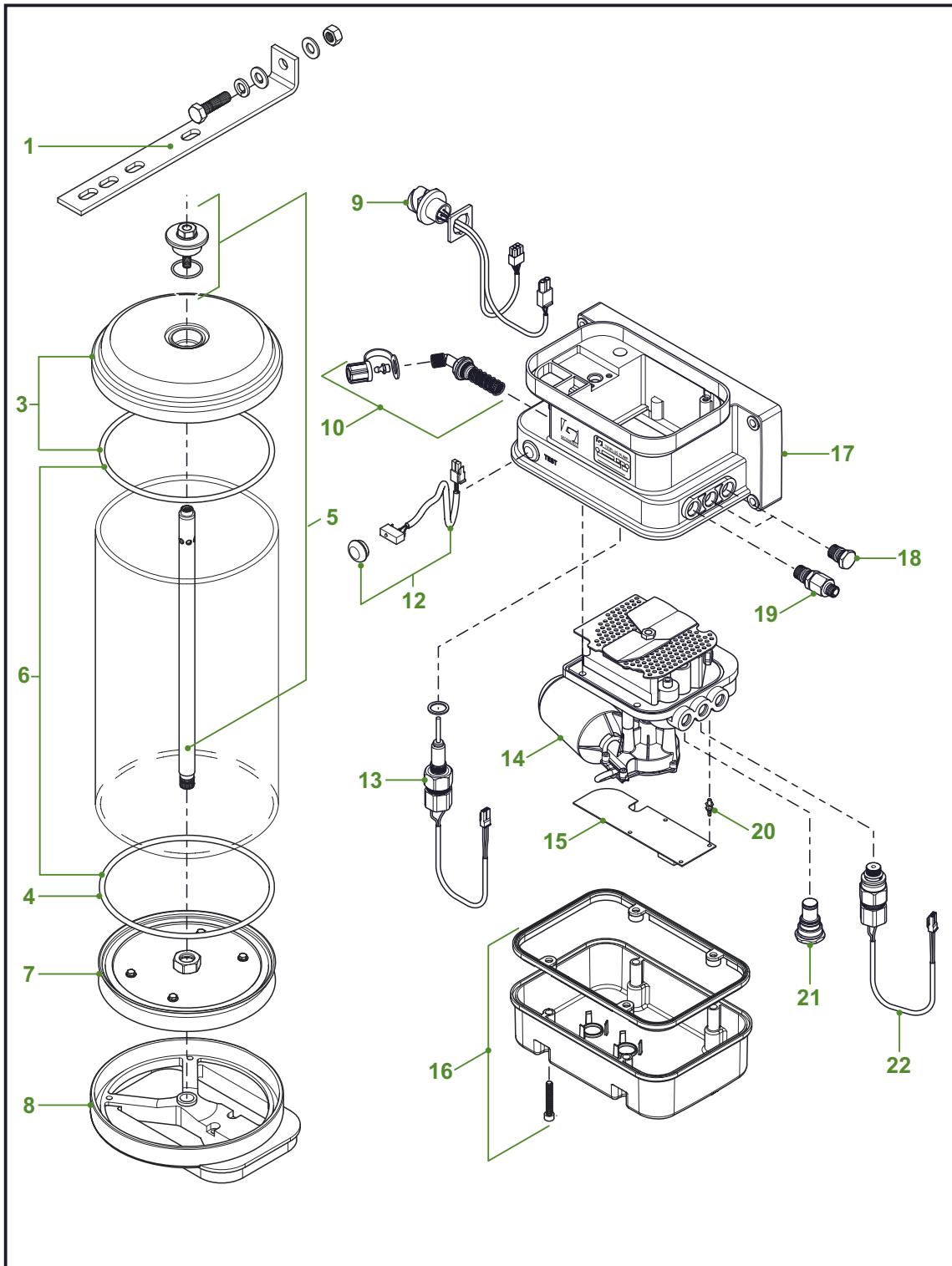
1.29 TriPlus-2 trailer pumps 1.5 - 4 litres (expired, replaced by TriPlus-3)

<i>Part no.</i>	<i>Supply voltage</i>	<i>Capacity reservoir</i>	<i>Number of outlets</i>	<i>Grease delivery</i>	<i>Maximum pressure</i>
F113641 ¹⁾	24 Vdc	3 litres	1	2.5 cc/min	275 bar

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>	<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F103256	Cover	12	F115728	Low level sensor
2	F000715	O-ring	13	F115758	Pump unit 24 Vdc
3	F172547	Reservoir kit 3 litre	14	F212094 ²⁾	Timer exchange kit
4	F111856	O-ring	15	F112864	Bottom cover
5	F121173	Shaft kit 3 l reservoir	16	F112320	Pump body
6	F112862	Follower plate 1.5 - 3 l	17	F112265	Pump outlet plug
7	F115745	Support kit	18	F113672	Pump outlet M12x1.5
8	F115730	Cable harness	19	F111296	Timer clip
9	F118171	Grease filter kit	20	F112264	Plug
11	F170210	Test switch kit	21	F115726	Pressure switch 300bar

¹⁾ These numbers are no longer available, please use TriPlus-3

²⁾ Original timers no longer available this kit replaces the F117099 / F115738 timers



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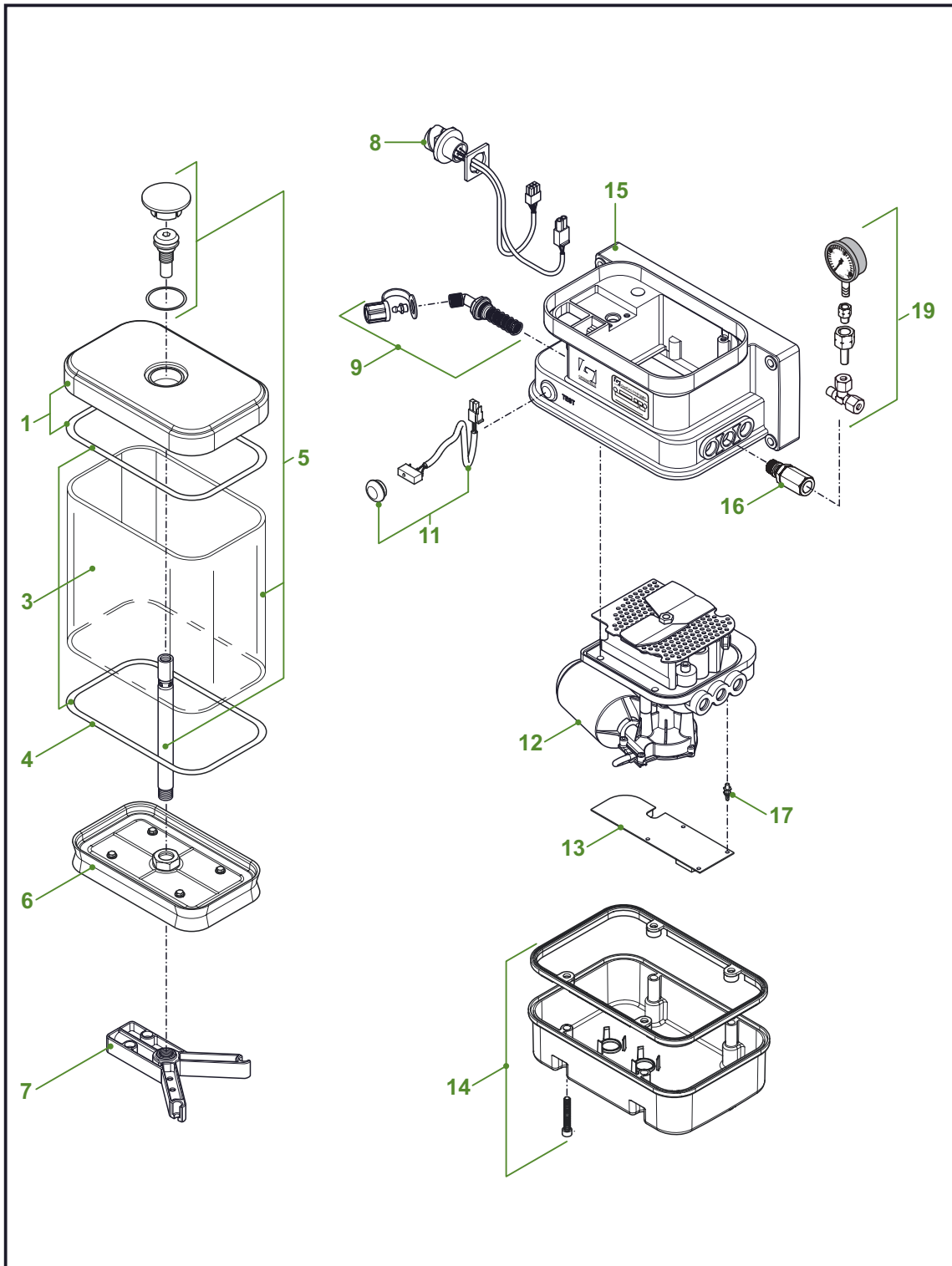
1.30 TriPlus-2 truck pumps 8 litres (expired, replaced by TriPlus-3)

<i>Part no.</i>	<i>Supply voltage</i>	<i>Capacity reservoir</i>	<i>Number of outlets</i>	<i>Grease delivery</i>	<i>Maximum pressure</i>
F116991 ¹⁾	24 Vdc	8 litres	1	2.5 cc/min	275 bar

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>	<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F116961	Bracket kit reservoir	13	F601390	Low level sensor
3	F605724	Cover + O-ring	14	F115758	Pump unit 24 Vdc
4	F110151	O-ring	15	F212093 ²⁾	Timer exchange kit
5	F121174	Shaft 8 l reservoir	16	F112864	Bottom cover
6	F172535	Reservoir kit 8 litre	17	F112320	Pump body
7	F117029	Follower plate 8 l	18	F112265	Pump outlet plug
8	F117037	Adapter 4 l -> 8 l	19	F113672	Pump outlet M12x1.5
9	F115730	Cable harness	20	F111296	Timer clip
10	F118171	Grease filter kit	21	F112264	Plug
12	F170210	Test switch kit	22	F115726	Pressure switch 300bar

¹⁾ These numbers are no longer available, please use TriPlus-3

²⁾ Original timers no longer available this kit replaces the F117099 / F115738 timers



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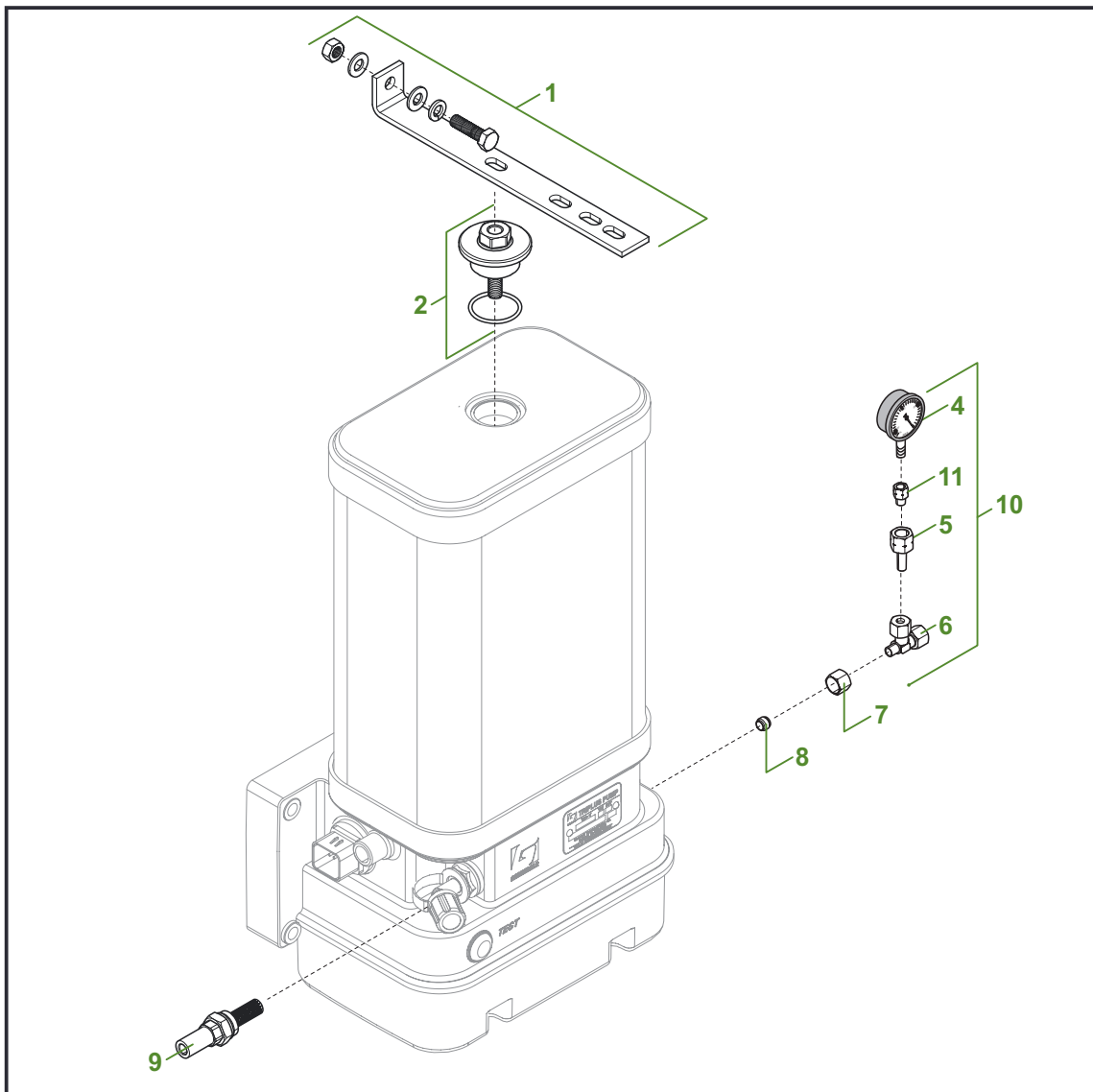
1.31 OnePlus-1 pumps 2 - 3 litres (Expired replaced by OnePlus-2)

<i>Part no.</i>	<i>Supply voltage</i>	<i>Capacity reservoir</i>	<i>Number of outlets</i>	<i>Grease delivery</i>	<i>Maximum pressure</i>
F123149	12 Vdc	2 litres	1	2.5 cc/min	275 bar
F114577	24 Vdc	2 litres	1	2.5 cc/min	275 bar
F123495 ¹⁾	24 Vdc	2 litres	1	2.5 cc/min	275 bar
F123491	12 Vdc	3 litres	1	2.5 cc/min	275 bar
F123490	24 Vdc	3 litres	1	2.5 cc/min	275 bar

<i>Pos</i>	<i>Part no.</i>	<i>P/n old</i>	<i>Description</i>	<i>Pos</i>	<i>Part no.</i>	<i>P/n old</i>	<i>Description</i>
1	F112915	-	Cover Inc. O-ring	11	F170210	-	Test switch kit
3	F124261	-	Reservoir kit 2 litre	12	F123151	-	Pump unit 12 Vdc
	F124262	-	Reservoir kit 3 litre		F121027	-	Pump unit 24 Vdc
4	F111856	89301	O-ring	13	F121026	-	Timer 12 / 24 Vdc
5	F121177	88901	Shaft kit 2 l reservoir	14	F112864	87701	Bottom cover
	F121173	-	Shaft kit 3 l reservoir	15	F122235	-	Pump body
6	F112862	89001	Follower plate 1.5 - 3l	16	F121996	-	Pump outlet M14x1.5
7	F115745		Support kit	17	F111296	88301	Timer clip
8	F124263	-	Cable harness	19	F202703	-	Manometer kit
9	F118171	-	Grease filter kit				

¹⁾ Pump excluding grease

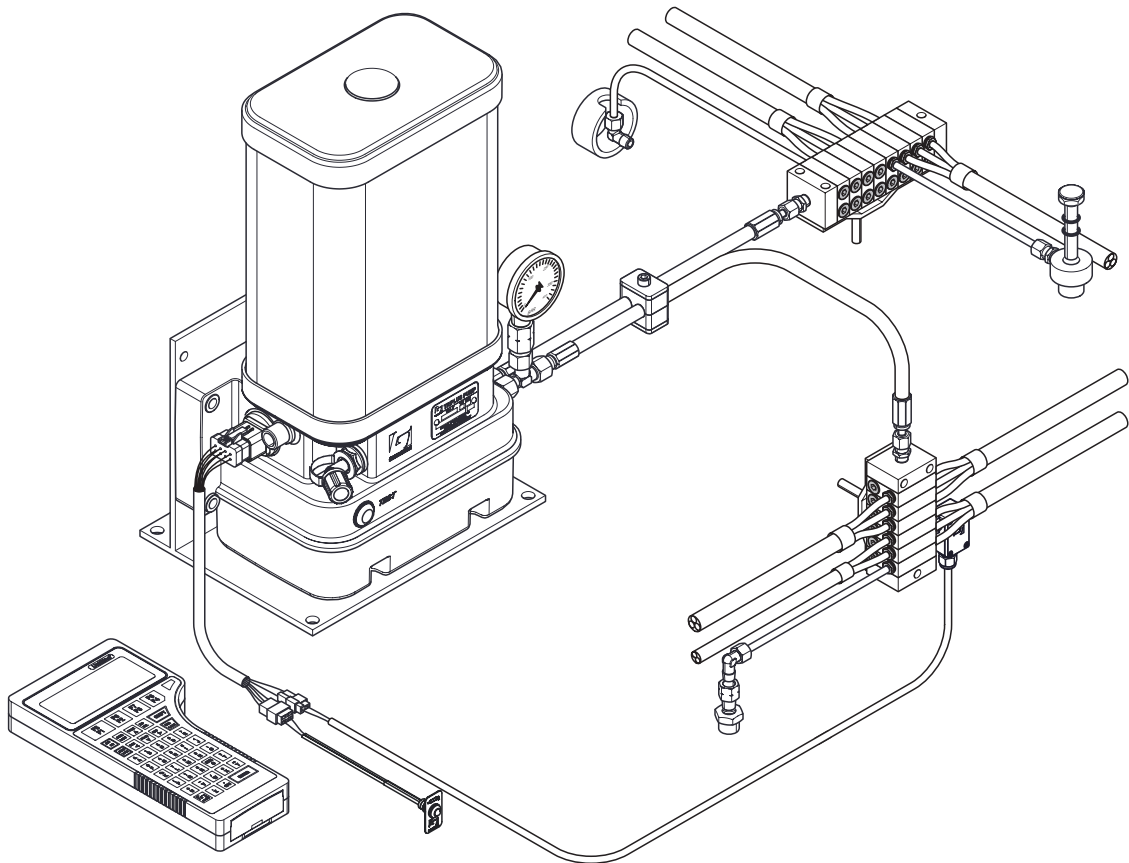
1.32 Optional parts



Pos	Part no.	Description
1	F116961	Bracket kit reservoir
2	F604159	Screw + O-ring 3-4L
	F604158	Screw + O-ring 6-8L
4	F119638	Manometer 0-400 bar G1/4"
	F603000	Manometer 0-400 bar G1/8"
5	F114743	Adapter ø6mm - G1/4"
6	F120891	L-swivel coupling ø6mm
7	F113675	Nut ø6mm - M12x1 (L-type)
8	F113676	Cutting ring ø6mm (L-type)
9	F602134	Grease filter kit M8x1 i/d
10	F202703	Manometer kit with F603000
11	F000527	Adapter G1/8"-G1/4" BR

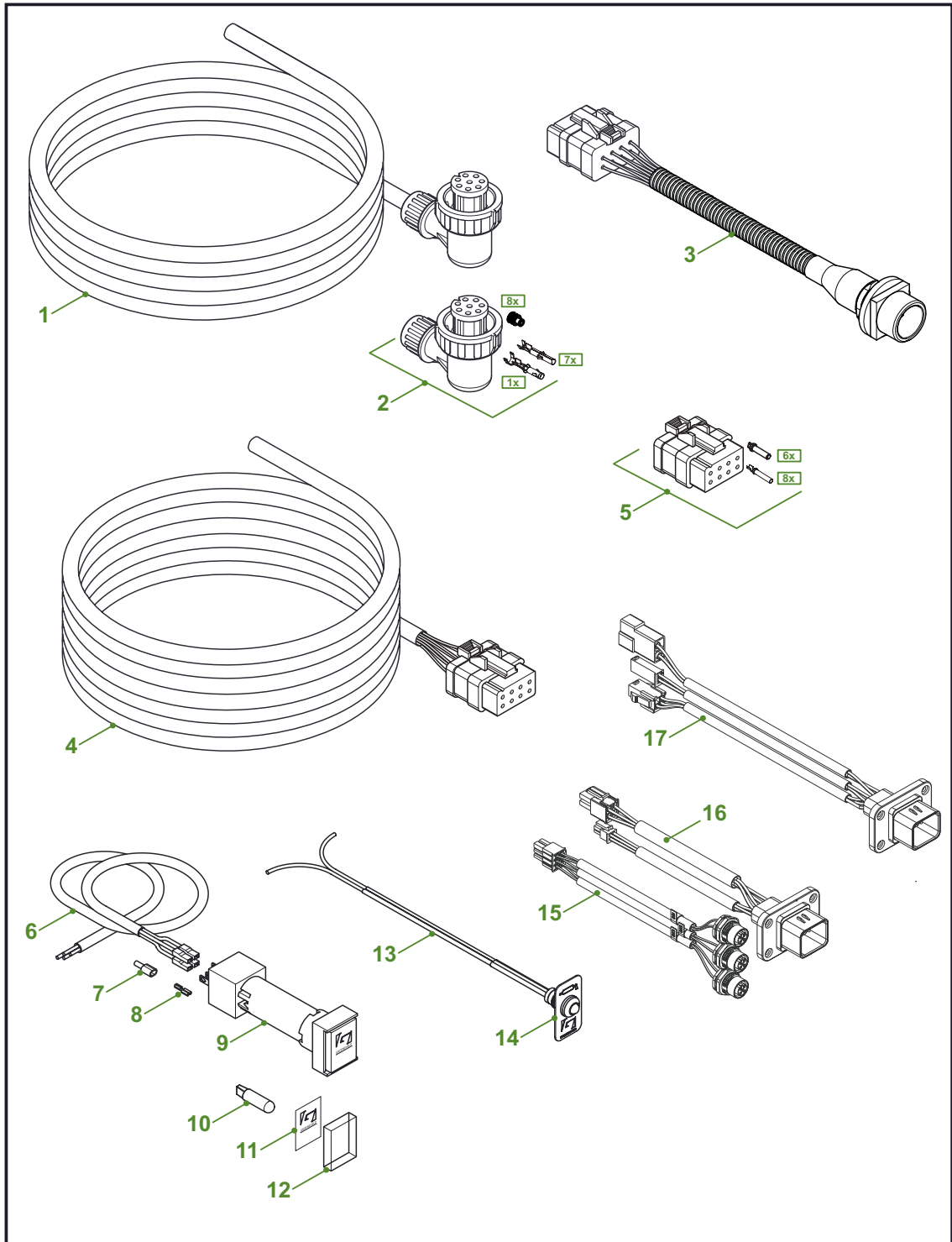
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2. ELECTRICAL PARTS



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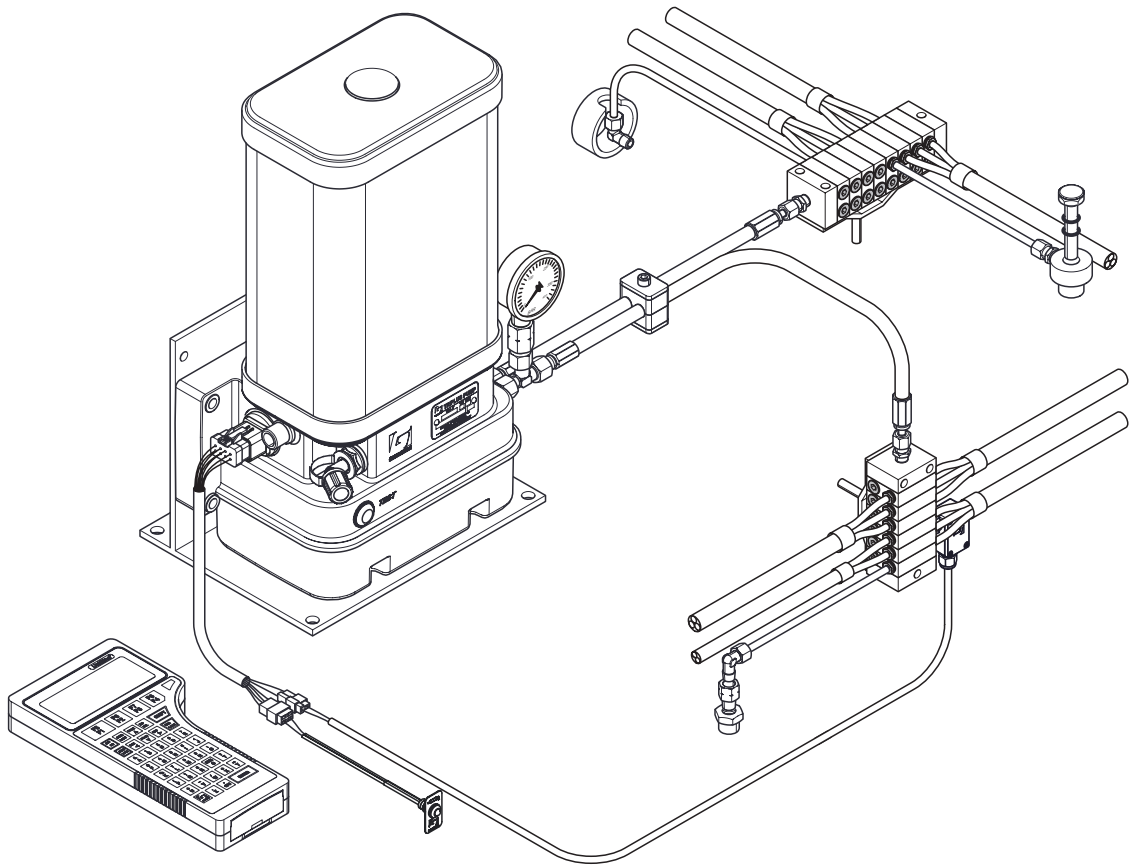


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2.1 Electrical parts

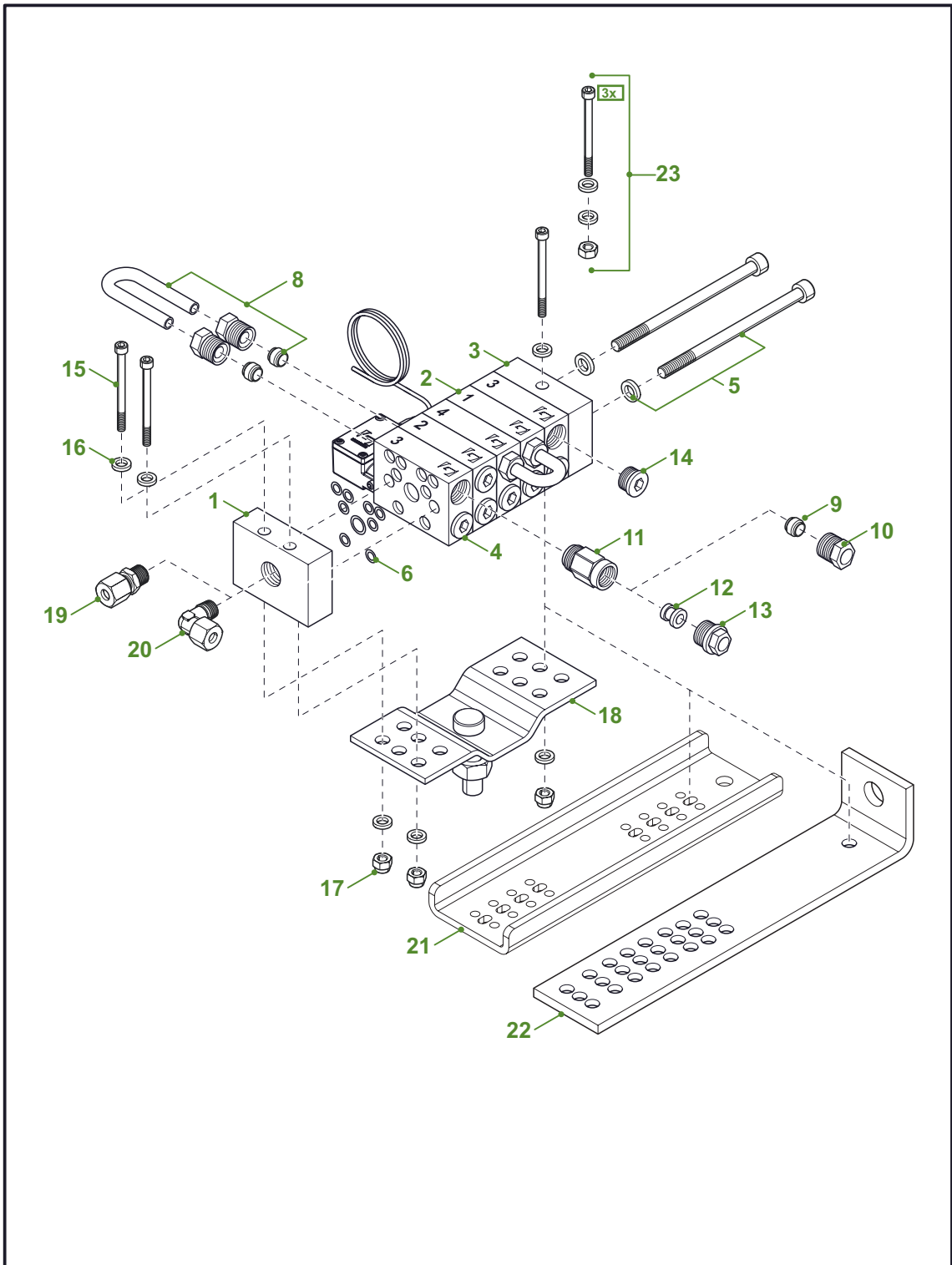
<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F108680	BreakAlube-2 / OnePlus / TriPlus-2 cable harness 8-core / 7 meter / ADR
	F123132	BreakAlube-2 / OnePlus / TriPlus-2 cable harness 8-core / 9 meter / ADR
	F123744	BreakAlube-2 / OnePlus / TriPlus-2 cable harness 8-core / 15 meter / ADR
	F108688	TriPlus-2 cable harness 2-core / 12 meter / trailer
2	F114443	BreakAlube-2 / OnePlus / TriPlus-2 connector kit 8-core
3	F129671	BreakAlube-2 / TriPlus-2 -> BreakAlube-3 / TriPlus-3 cable
4	F129142	BreakAlube-3 / TriPlus-3 cable harness 7-core / 7 meter / truck
	F129827	BreakAlube-3 / TriPlus-3 cable harness 7-core / 15 meter / truck
	F129775	TriPlus-3 / EcoPlus cable harness 3-core / 7 meter / trailer
	F129143	TriPlus-3 / EcoPlus cable harness 5-core / 7 meter / trailer
	F606029	OnePlus-2 / EcoPlus cable harness 8-core / 5 meter
	F604708	GPA/OnePlus-2 / EcoPlus cable harness 8-core / 10 meter
	F123728	OnePlus-2 / EcoPlus cable harness 8-core / 15 meter
5	F127305	BreakAlube-3 / TriPlus-3 / OnePlus-2 / EcoPlus connector kit 8-core Tyco
6	F106633	Cable harness
7	F113015	Cover flat plate sleeve
8	F113014	Flat plate sleeve
9	F175119	Switch 24 Vdc on/off
10	F112769	Bulb 12 Vdc
	F116127	Bulb 24 Vdc
11	F175122	Text window
12	F112842	Lamp cover yellow
13	F105891	LED yellow
14	F120306	Text plate LED
15	F636333	GPO block switch harness
16	F636331	GPA+/GPO internal harness
17	F635425	GPA internal harness

3. BLOCKS



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3.1 Blocks & block parts

Pos	Part no.	Description
1	F604835	Head block Zn/Ni
2	F604836	Middle block type 1 (2x 0.045cc) Zn/Ni
	F604837	Middle block type 2 (2x 0.075cc) Zn/Ni
	F604838	Middle block type 3 (2x 0.125cc) Zn/Ni
	F604839	Middle block type 4 (2x 0.200cc) Zn/Ni
	F604840	Middle block type 6 (2x 0.300cc) Zn/Ni
3	F604841	End block Zn/Ni
4	F605415	Middle block type 3 (2x 0.125cc) with block switch sensor Zn/Ni
	F605414	Middle block type 4 (2x 0.200cc) with block switch sensor Zn/Ni
5	F604842	Bolt kit 3 middle blocks (M6x65mm) Zn/Ni
	F604843	Bolt kit 4 middle blocks (M6x80mm) Zn/Ni
	F604844	Bolt kit 5 middle blocks (M6x100mm) Zn/Ni
	F604845	Bolt kit 6 middle blocks (M6x115mm) Zn/Ni
	F604846	Bolt kit 7 middle blocks (M6x130mm) Zn/Ni
	F604847	Bolt kit 8 middle blocks (M6x145mm) Zn/Ni
	F604848	Bolt kit 9 middle blocks (M6x165mm) Zn/Ni
	F604849	Bolt kit 10 middle blocks (M6x180mm) Zn/Ni
	F604850	Bolt kit 11 middle blocks (M6x196mm) Zn/Ni
	F604851	Bolt kit 12 middle blocks (M6x210mm) Zn/Ni
6	F605427	O-ring kit progressive blocks
8	F604852	By-pass kit 6mm Zn/Ni
9	F000658	Cutting ring ø6mm BR
	F114441	Cutting ring ø6mm ST
10	F604857	Nut ø6mm - M12x1 Zn/Ni
11	F604855	Non-return valve M12x 1 Zn/Ni
	F605698	Non-return valve NPT Zn/Ni
12	F114060	Push-in ring ø3/16"
	F114061	Push-in ring ø6mm
13	F604858	Push-in nut ø3/16 Zn/Ni
	F604859	Push-in nut ø6mm Zn/Ni
14	F604860	Threaded plug M12x1 Zn/Ni
15	F604962	Allen screw M5x45 Zn/Ni
	F605481	Allen screw M5x50 Zn/Ni
	F605717	Allen screw M5x55 Zn/Ni
16	F604964	Plain washer M5 Zn/Ni
	F604965	Lock washer M5 Zn/Ni
17	F605537	Self-locking nut M5 Zn/Ni
	F604963	Nut M5 Zn/Ni
18	F604828	Bracket 3 - 5 middle blocks Zn/Ni
	F604827	Bracket 6 - 8 middle blocks Zn/Ni
	F604826	Bracket 9 - 12 middle blocks Zn/Ni

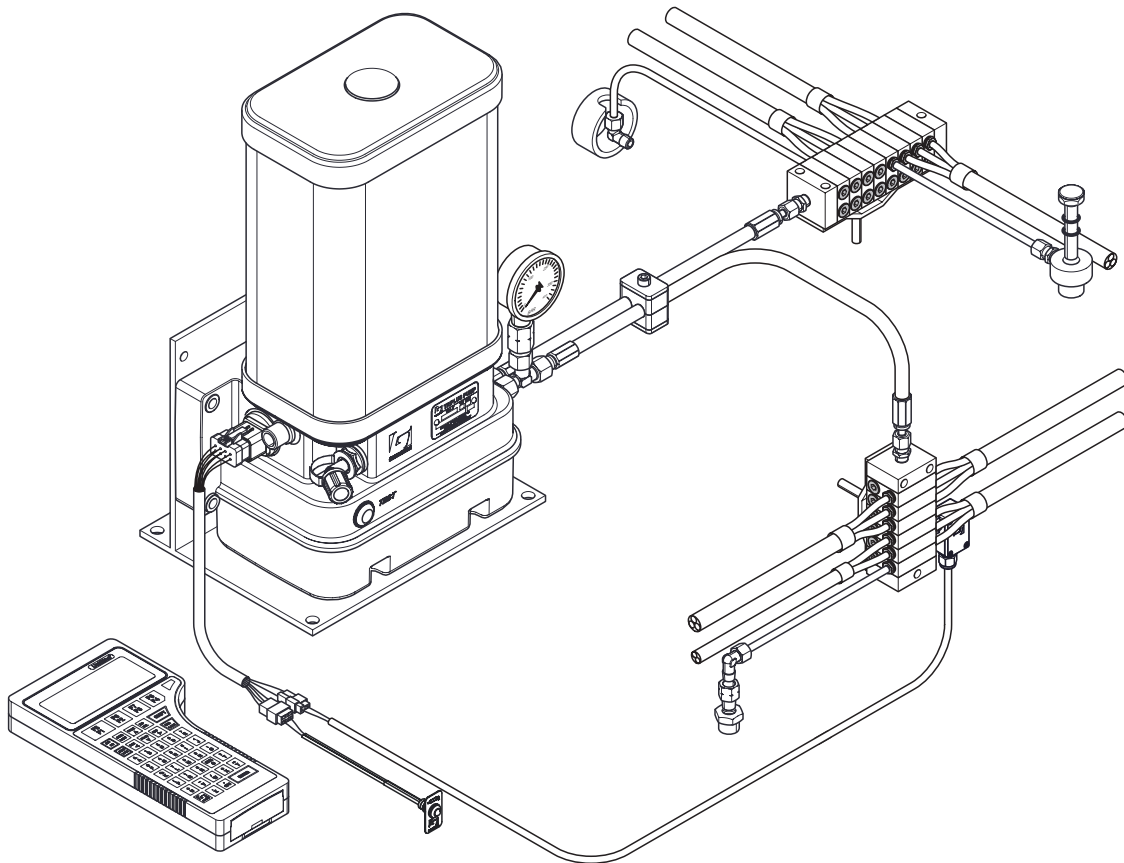
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Pos	Part no.	Description
19	F604951	Male stud coupling M10x1 - ø6mm Zn/Ni
20	F604952	Male stud elbow M10x1 - ø6mm Zn/Ni
21	F604956	Bracket 3 - 10 middle blocks Zn/Ni
	F604957	Bracket 4 - 12 middle blocks Zn/Ni
22	F604907	L- bracket 3 - 10 middle blocks Zn/Ni
23	F604961	Bolt kit M5x45 Zn/Ni

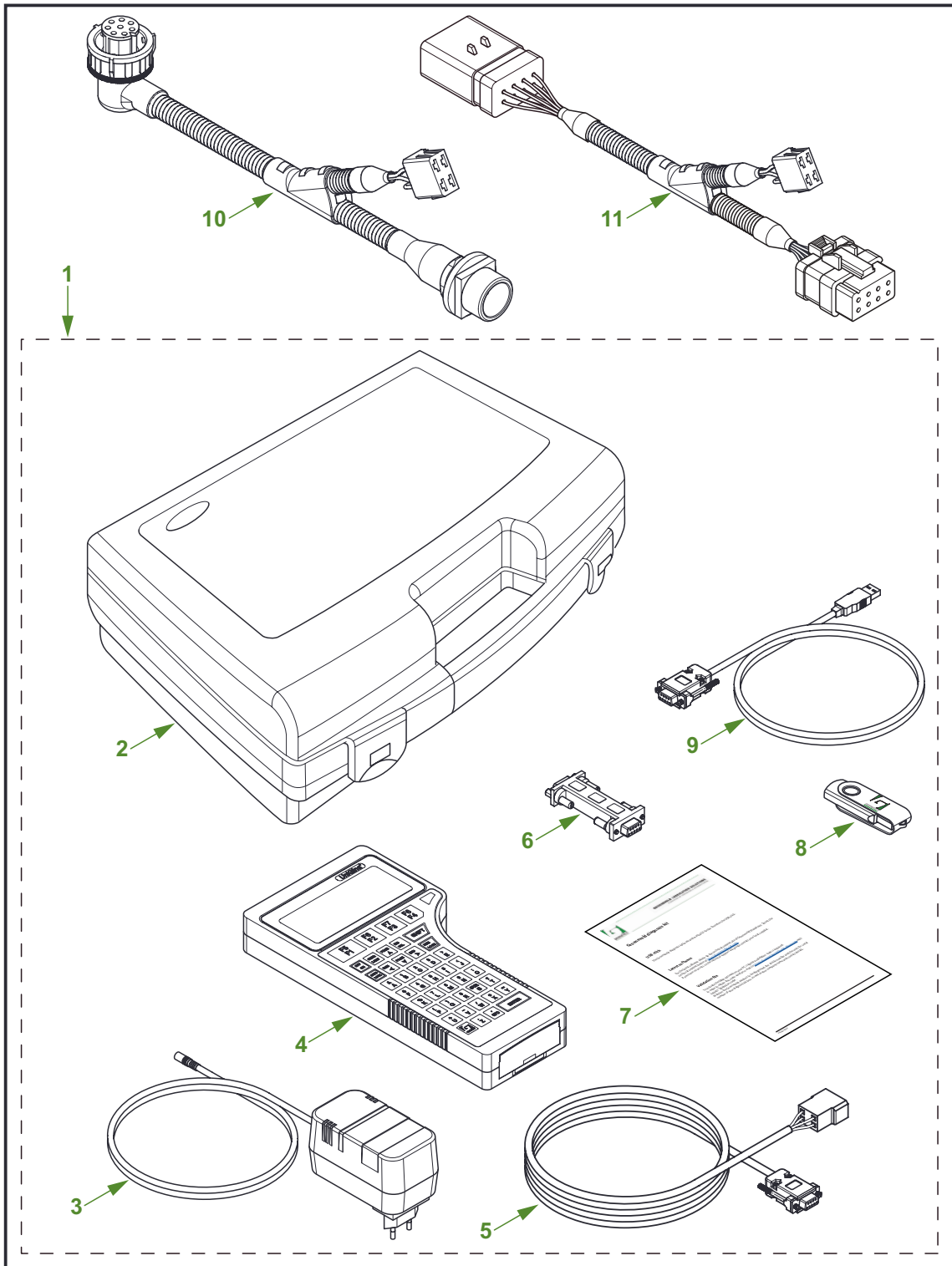
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4. DIAGNOSTIC TOOLS



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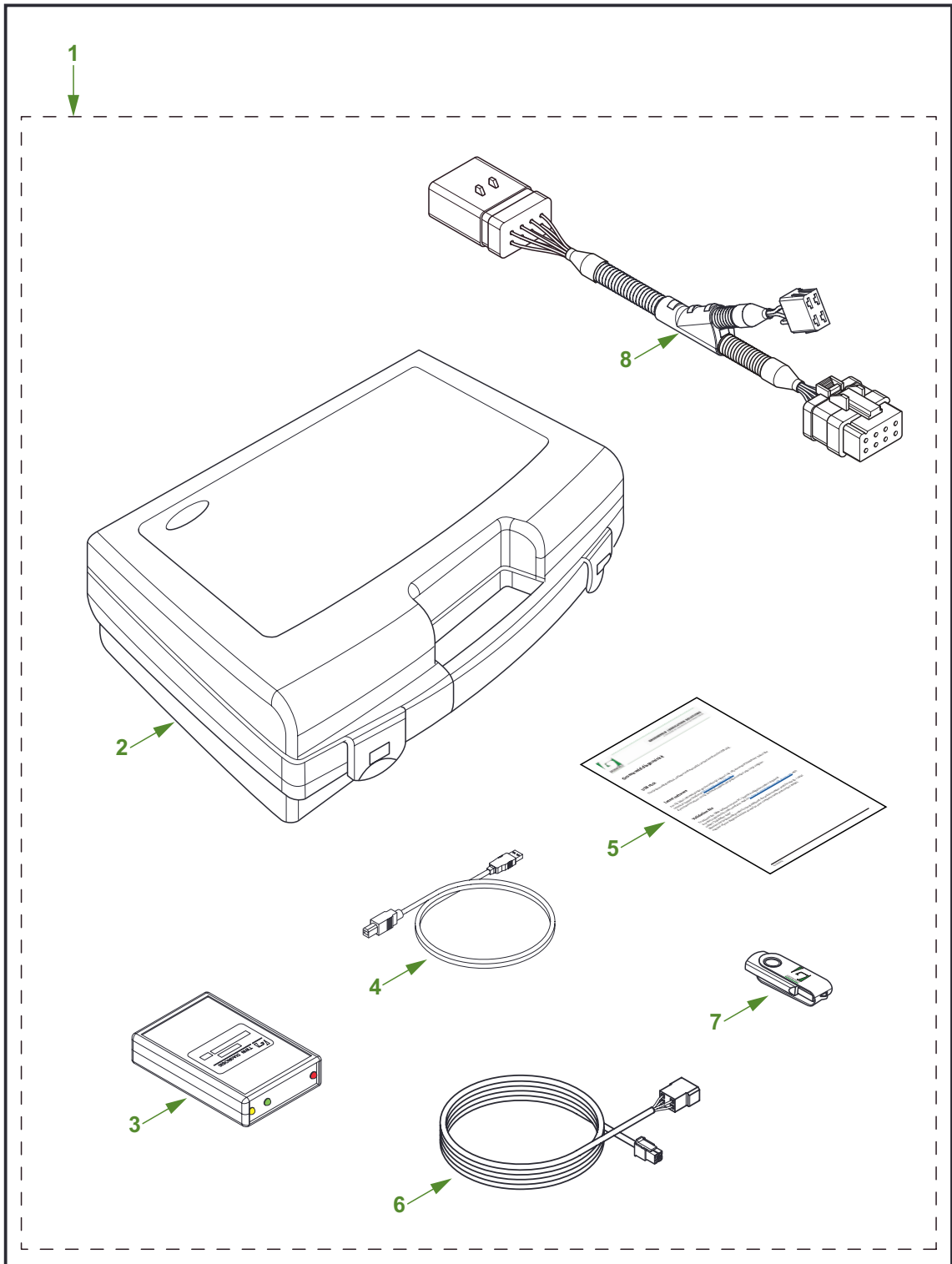


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4.1 UniGINA kit

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F121604	UniGINA kit
2	F121605	Diagnosis case
3	F120537/1	Power supply UniGINA
4	F178644	UniGINA
5	F121401	Data cable UniGINA
6	F205694	Converter RS232
7	F603607	Diagnosis kit instruction
8	F603602	USB UniGINA
9	F127437	PC-UniGINA cable
-	F212313	Validation code TriPlus / BreakAlube / OnePlus
10	F113110	Y-cable TriPlus-2 / BreakAlube-2 / OnePlus / Oilmaster
11	F124310	Y-cable TriPlus-3 / BreakAlube-3 / Twin-3

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4.2 PC-GINA kit TriPlus-3 / BreakAlube-3 / OnePlus-2

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F601976	PC-GINA kit TriPlus-3 / BrealAlube-3
2	F121605	Diagnosis case
3	F124299	Diagnosis interface
4	F124309	USB cable
5	F603607	Diagnosis kit instruction
6	F124311	Data cable PC-GINA
7	F603603	USB PC-GINA
-	F601890	PC-GINA TriPlus-3,BreakAlube-3 and OnePlus-2 license
8	F124310	Y-cable TriPlus-3 / BreakAlube-3 / Twin-3 / OnePlus-2

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4.3 BreakAlube-2 PC-GINA kit

<i>Pos</i>	<i>Part no.</i>	<i>Description</i>
1	F126810	BreakAlube-2 PC-GINA kit
2	F121605	Diagnosis case
3	F124299	Diagnosis interface
4	F603607	Diagnosis kit instruction
5	F113110	Y-cable TriPlus-2 / BreakAlube-2 / OnePlus / Oilmaster
6	F603606	USB BreakAlube PC-GINA
7	F124311	Data cable PC-GINA
8	F124309	USB cable
	-	Validation code BreakAlube

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