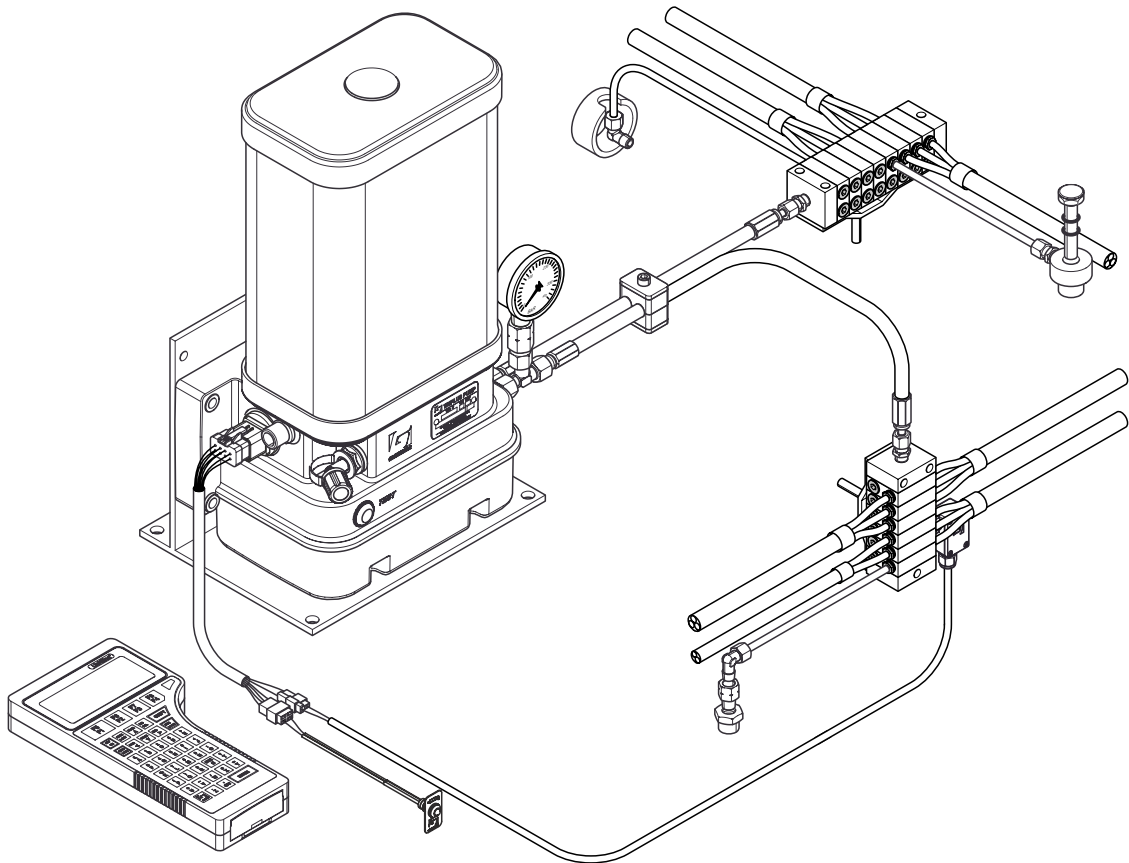


Parts Manual



Automatic Progressive Greasing Systems

F213259R08



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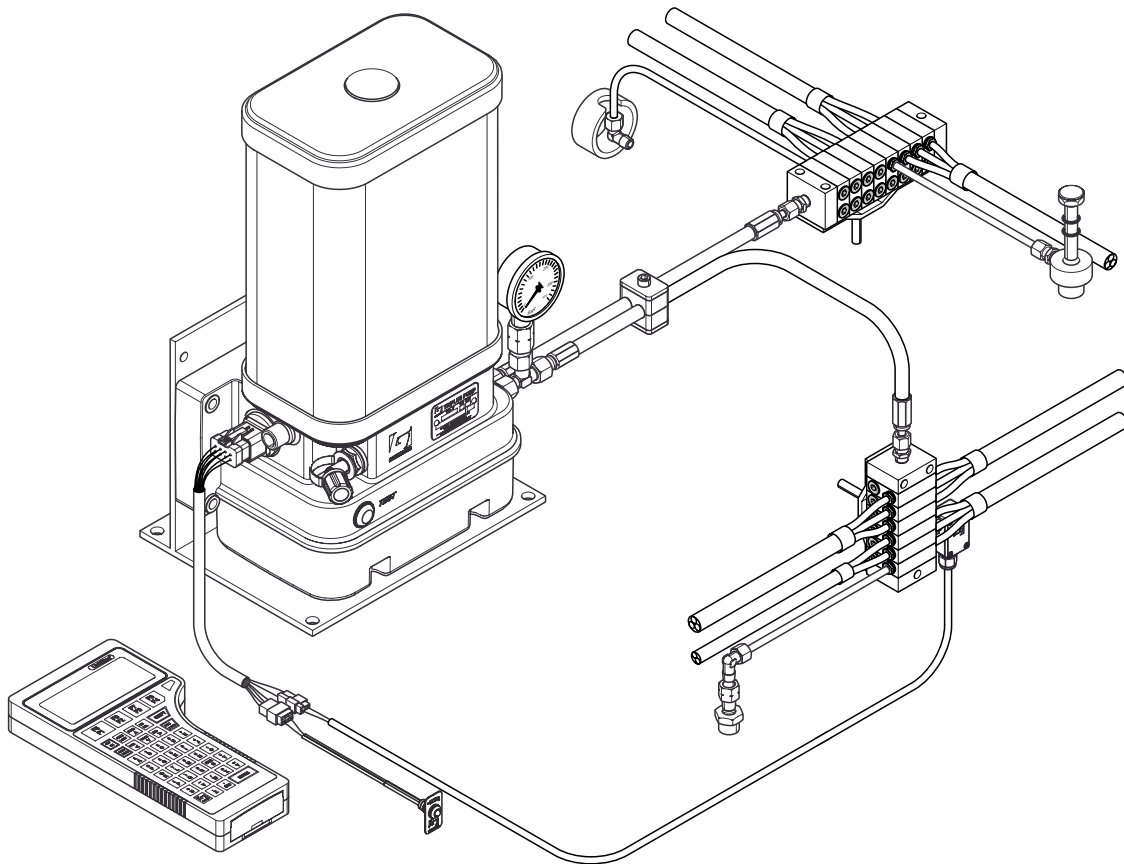
You are requested to contact Groeneveld technical service for information concerning adjustment, maintenance work or repairs that is not described in this manual.

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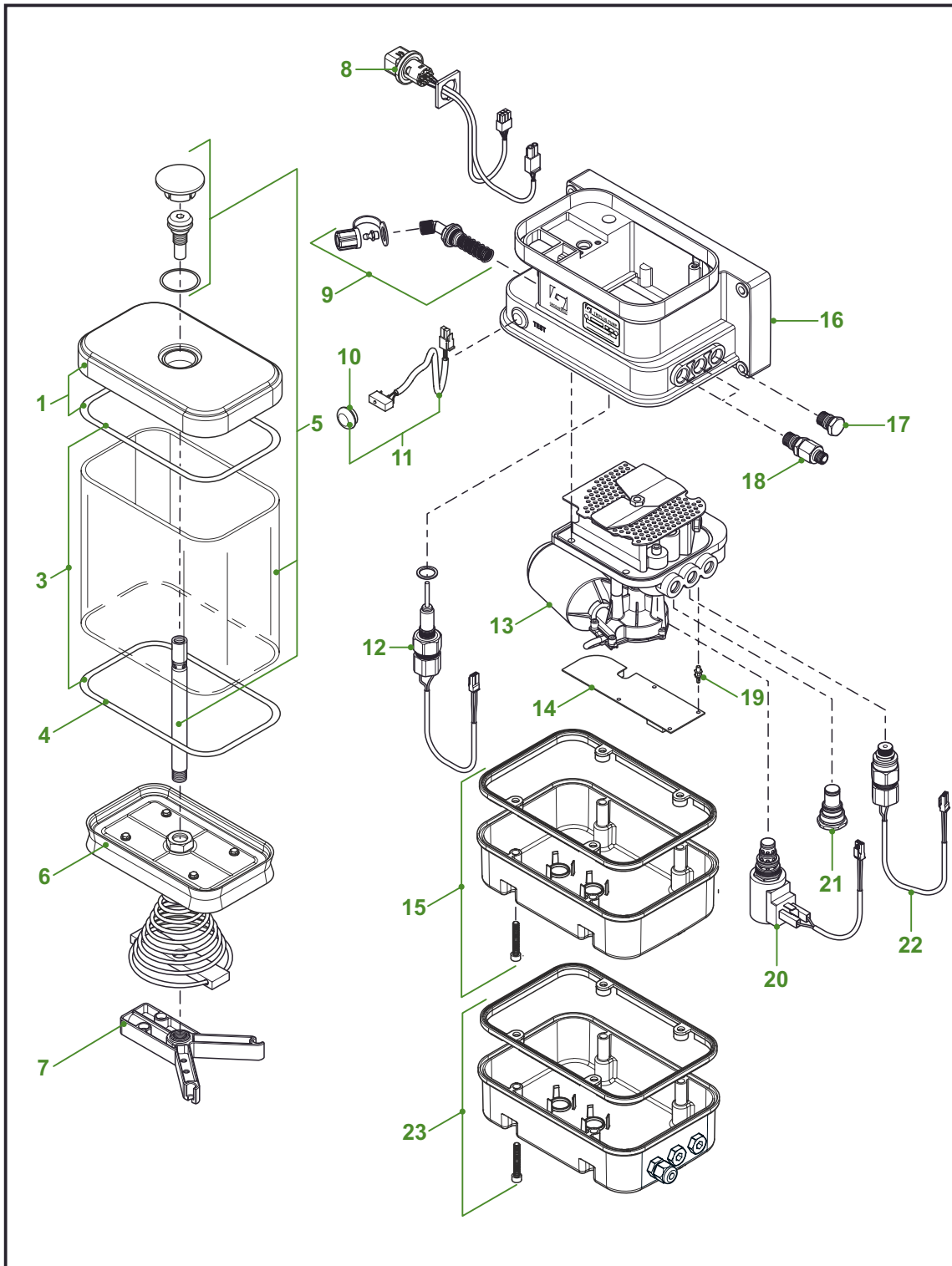
1. PUMPS



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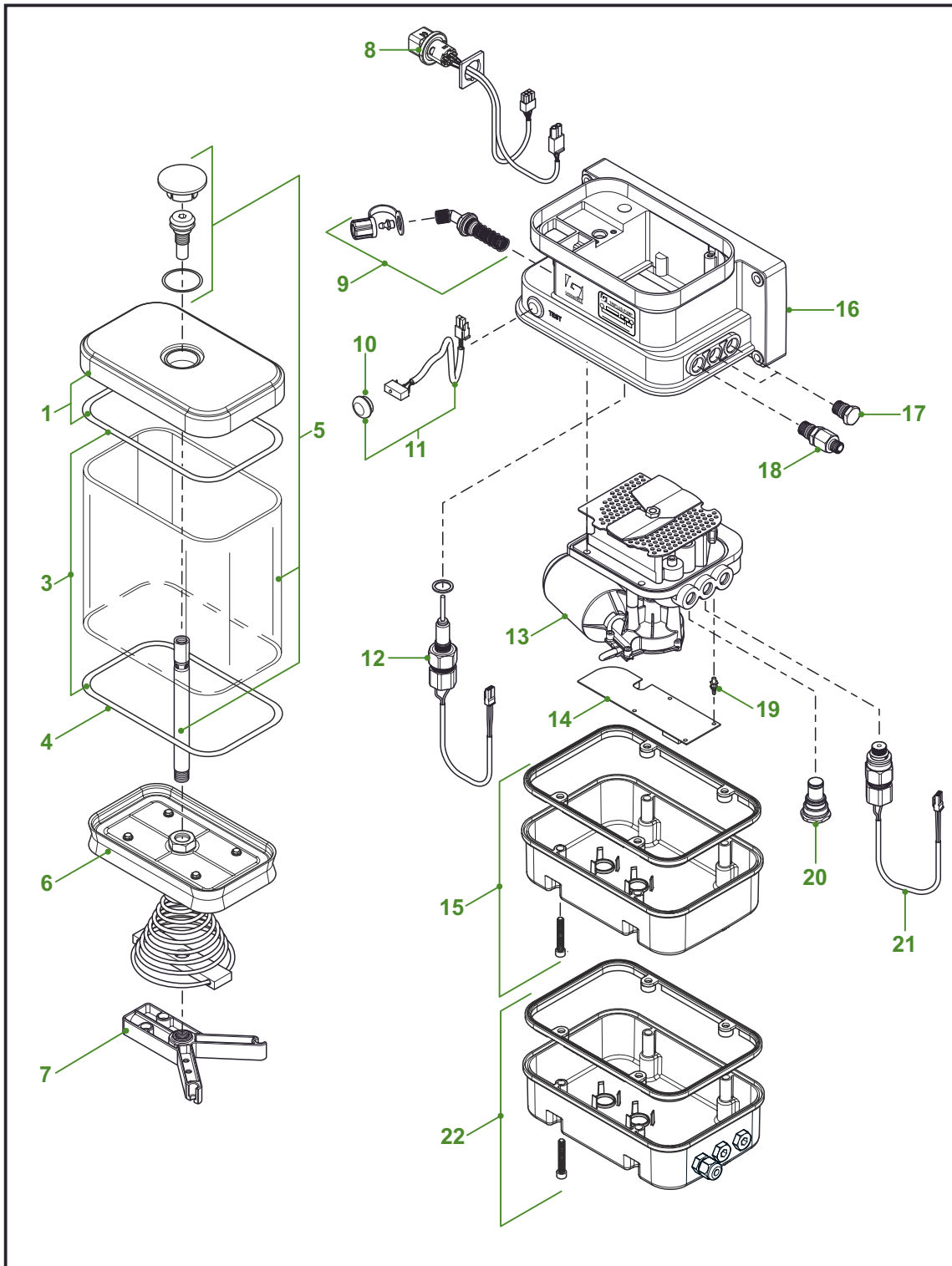
Release date: October 2016

1.1 TriPlus-3 truck pumps 1.5 - 4 liters

<i>P/n new</i>	<i>P/n old</i>	<i>Supply voltage</i>	<i>Capacity reservoir</i>	<i>Number of outlets</i>	<i>Grease delivery</i>	<i>Maximum pressure</i>
F129081	-	12 Vdc	1.5 liters	2	2.5 cc/min	275 bar
F129082	-	24 Vdc	1.5 liters	2	2.5 cc/min	275 bar
F129077	-	12 Vdc	3 liters	1	2.5 cc/min	275 bar
F129083	-	12 Vdc	3 liters	3	2.5 cc/min	275 bar
F129074	-	24 Vdc	3 liters	1	2.5 cc/min	275 bar
F129075	-	24 Vdc	3 liters	2	2.5 cc/min	275 bar
F129076	-	24 Vdc	3 liters	3	2.5 cc/min	275 bar
F129079	-	12 Vdc	4 liters	1	2.5 cc/min	275 bar
F129070	-	24 Vdc	4 liters	1	2.5 cc/min	275 bar

<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>	<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>
1	F112915		Cover inc O-ring	12	F601391	-	Low level sensor
3	F119664	-	Reservoir kit 1.5 liter	13	F129668	-	Pump unit 12 Vdc
	F172547	-	Reservoir kit 3 liter		F129104	-	Pump unit 24 Vdc
	F172548	-	Reservoir kit 4 liter	14	F130186	-	Timer 12 / 24 Vdc
4	F111856	89301	O-ring	15	F112864	87701	Bottom cover
5	F121176	-	Shaft kit 1.5 l reservoir	16	F112320	-	Pump body
	F121173	-	Shaft kit 3 l reservoir	17	F112265	02816	Pump outlet plug
	F121160	-	Shaft kit 4 l reservoir	18	F113672	02916	Pump outlet M12x1.5
6	F112862	89001	Follower plate 1.5 - 3 l	19	F111296	88301	Timer clip
	F127230	-	Follower plate 4 l	20	F129787	-	Outlet kit 12 Vdc
7	F115745		Support kit		F129788	-	Outlet kit 24 Vdc
8	F129100	-	Cable harness	21	F112264	-	Plug
9	F118171	-	Grease filter kit	22	F129108	-	Pressure switch 300bar
10	F117253	87301	Push butt. test switch	23	F130205	-	Block swith cover kit
11	F170210		Test switch kit				

Release date: October 2016



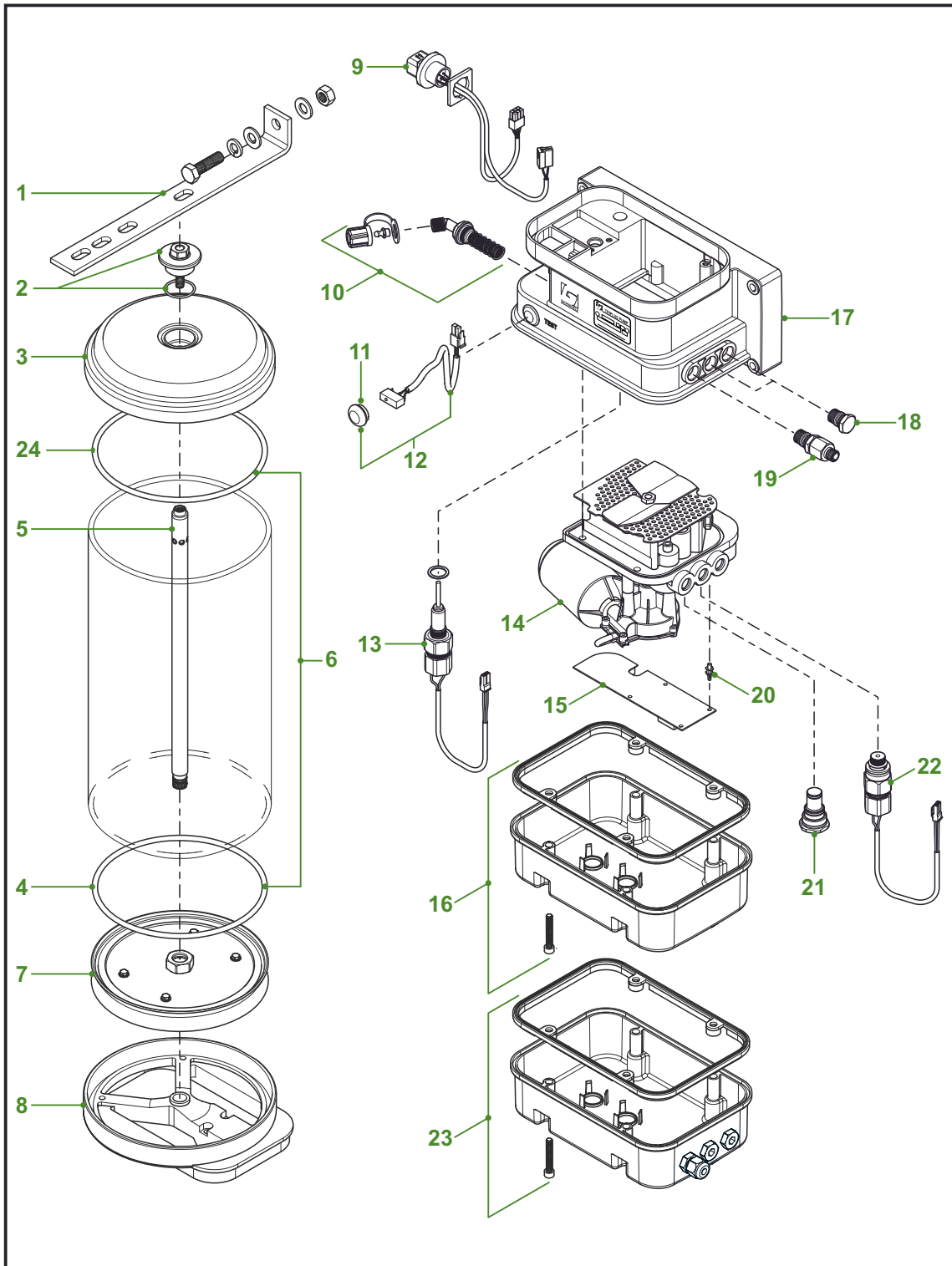
Release date: October 2016

1.2 TriPlus-3 trailer pumps 3 - 4 liters

<i>P/n new</i>	<i>P/n old</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 liters	1	2.5 cc/min	275 bar
F129092		24 Vdc	4 liters	1	2.5 cc/min	275 bar

<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>	<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>
1	F112915		Cover inc O-ring	11	F170210		Test switch kit
3	F172547	-	Reservoir kit 3 liter	12	F601391	-	Low level sensor
	F172548	-	Reservoir kit 4 liter	13	F129104	-	Pump unit 24 Vdc
4	F111856	89301	O-ring	14	F130186	-	Timer 12 / 24 Vdc
5	F121173	-	Shaft kit 3 l reservoir	15	F112864	87701	Bottom cover
	F121160	-	Shaft kit 4 l reservoir	16	F112320	-	Pump body
6	F112862	89001	Follower plate 1.5 - 3 l	17	F112265	02816	Pump outlet plug
	F127230	-	Follower plate 4 l	18	F113672	02916	Pump outlet M12x1.5
7	F115745		Support kit	19	F111296	88301	Timer clip
8	F129101	-	Cable harness	20	F112264	-	Plug
9	F118171	-	Grease filter kit	21	F129108	-	Pressure switch 300bar
10	F117253	87301	Push butt. test switch	22	F130205	-	Block swith cover kit

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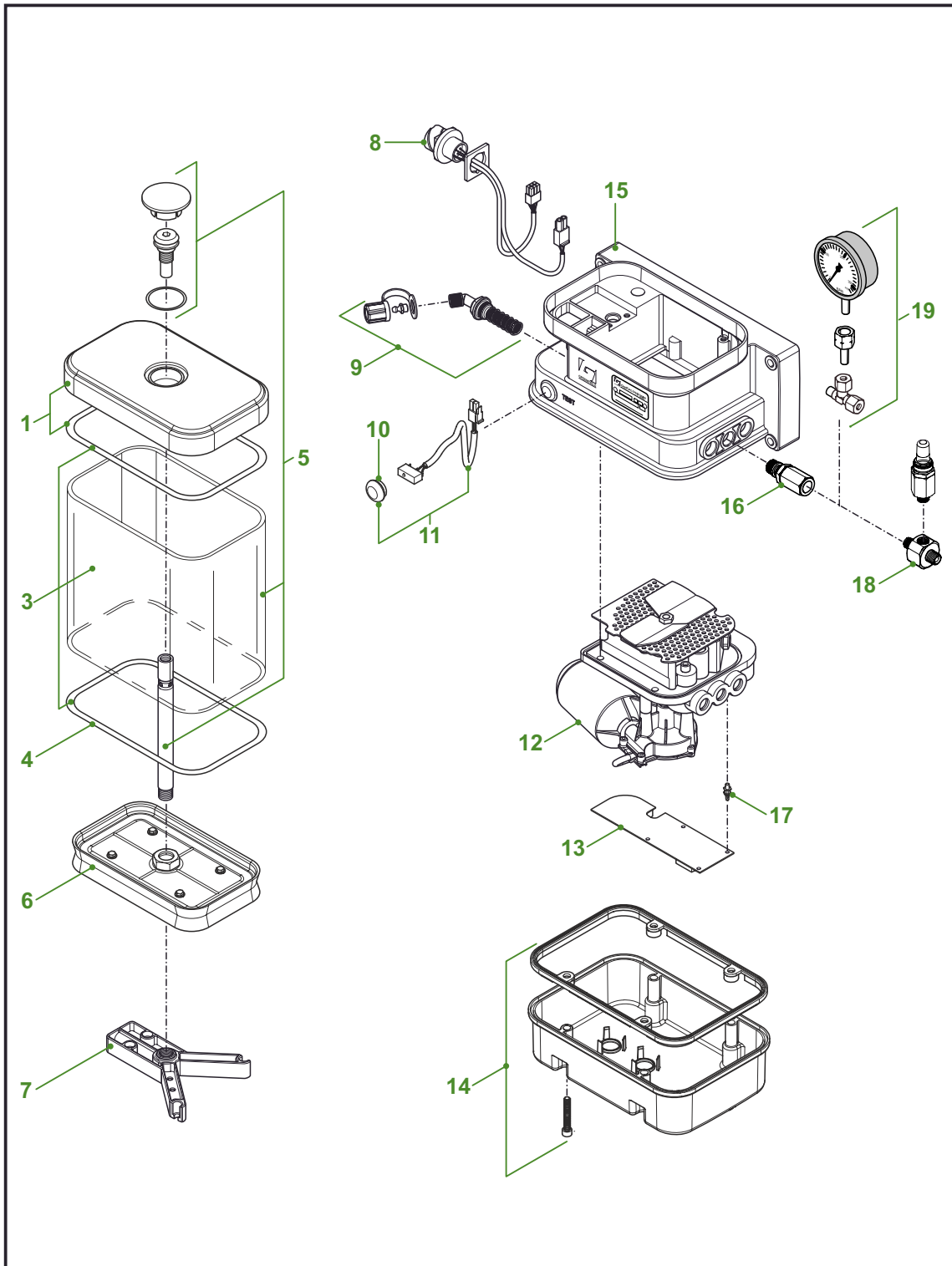


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1.3 TriPlus-3 truck pumps 8 liters

<i>P/n new</i>	<i>P/n old</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 liters	1	2.5 cc/min	275 bar

<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>	<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>
1	F116961	-	Bracket kit reservoir	13	F601392	-	Low level sensor
2	F604158	-	Screw + O-ring	14	F129104	-	Pump unit 24 Vdc
3	F103049	37501	Cover	15	F130186	-	Timer 12 / 24 Vdc
4	F110151	30601	O-ring	16	F112864	87701	Bottom cover
5	F121174	21417	Shaft 8 l reservoir	17	F112320	-	Pump body
6	F172535		Reservoir kit 8 liter	18	F112265	02816	Pump outlet plug
7	F117029	21517	Follower plate 8 l	19	F113672	02916	Pump outlet M12x1.5
8	F117037	-	Adapter 8L	20	F111296	88301	Timer clip
9	F129100	-	Cable harness	21	F112264	-	Plug
10	F118171	-	Grease filter kit	22	F129108	-	Pressure switch 300bar
11	F117253	87301	Push butt. test switch	23	F130205	-	Block swith cover kit
12	F170210		Test switch kit	24	F000715		O-ring



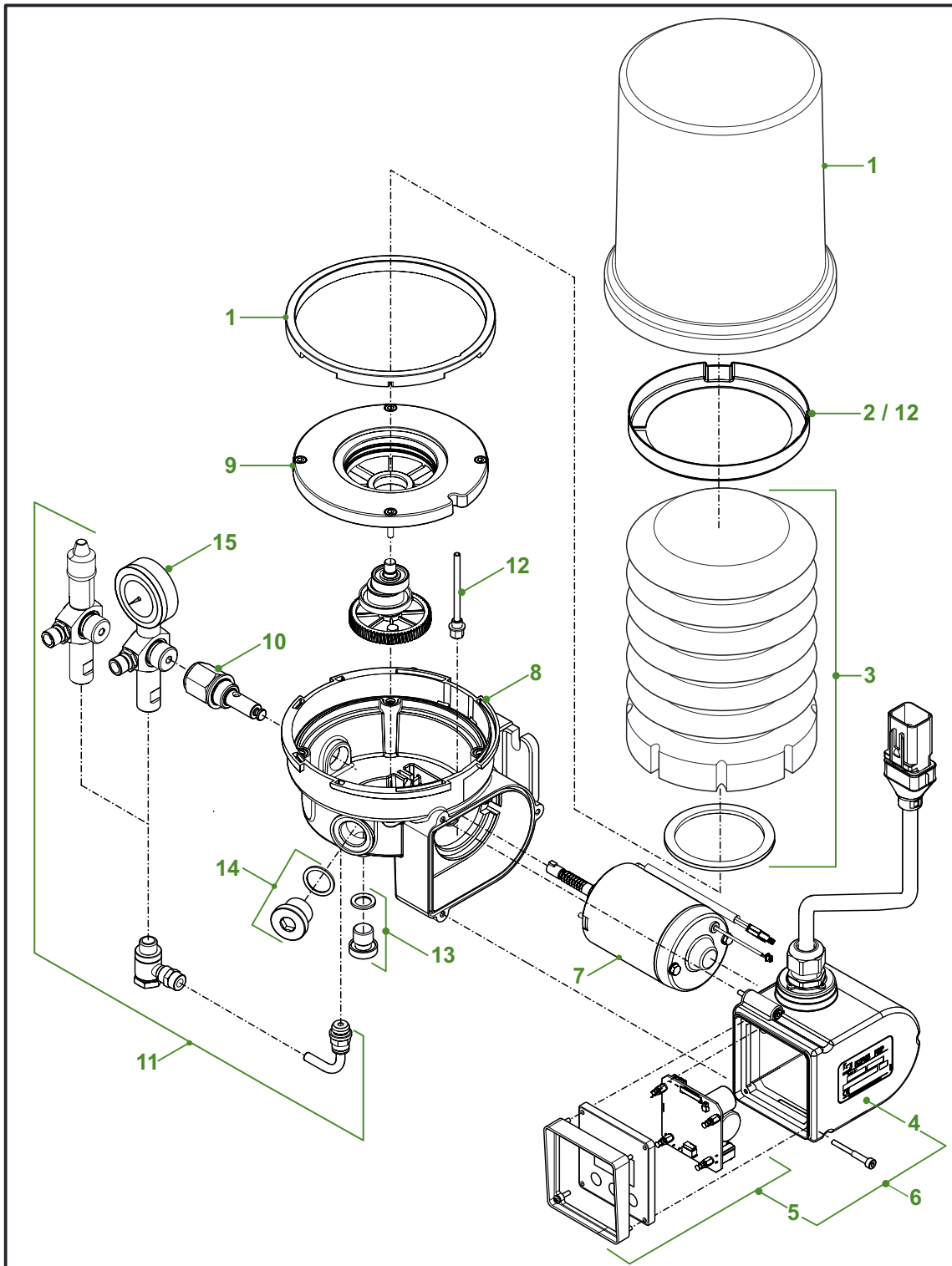
Release date: October 2016

1.4 OnePlus pumps 2 - 3 liters

<i>P/n new</i>	<i>P/n old</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 liters	1	2.5 cc/min	275 bar
F114577	-	24 Vdc	2 liters	1	2.5 cc/min	275 bar
F123495 ¹⁾	-	24 Vdc	2 liters	1	2.5 cc/min	275 bar
F123491	-	12 Vdc	3 liters	1	2.5 cc/min	275 bar
F123490	-	24 Vdc	3 liters	1	2.5 cc/min	275 bar

¹⁾ Pump excluding grease

<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>	<i>Pos</i>	<i>P/n new</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 liter	12	F123151	-	Pump unit 12 Vdc
	F124262	-	Reservoir kit 3 liter		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	F112320	-	Pump body
6	F112862	89001	Follower plate 2 l - 3 l	16	F121996	-	Pump outlet M14x1.5
7	F115745		Support kit	17	F111296	88301	Timer clip
8	F124263	-	Cable harness	18	F125602	-	Visual signal kit
9	F118171	-	Grease filter kit	19	F202703		Manometer kit
10	F117253	87301	Push butt. test switch				



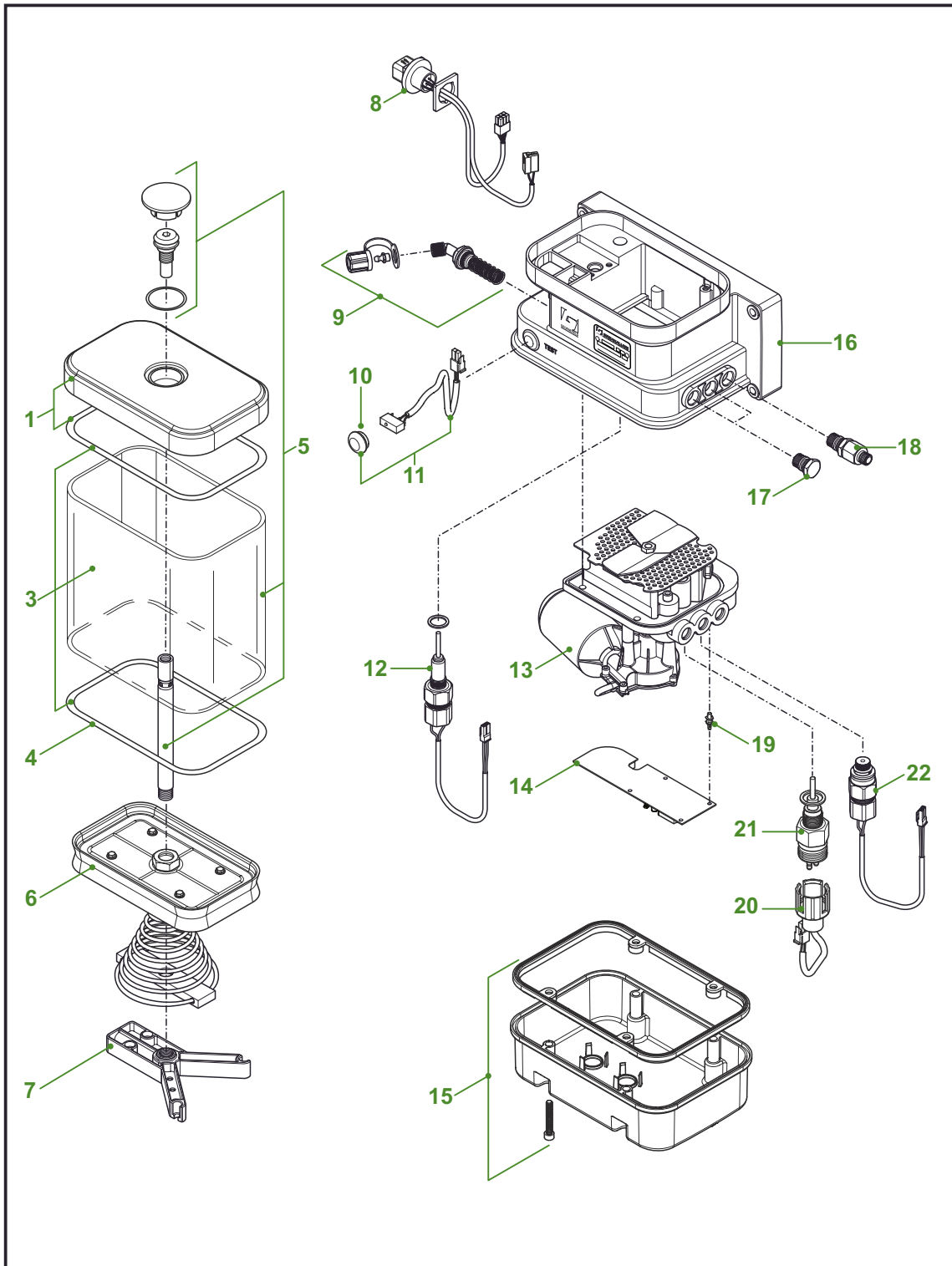
Release date: October 2016

1.5 EcoPlus pumps 1.7 liters

<i>P/n new</i>	<i>Version</i>	<i>Supply voltage</i>	<i>Capacity reservoir</i>	<i>Low level</i>	<i>Grease delivery</i>	<i>Maximum pressure</i>
F132007	Truck	12 Vdc	1.7 liters	Yes	0.25cc / stroke	275 bar
F132006	Truck	24 Vdc	1.7 liters	Yes	0.25cc / stroke	275 bar
F601991	Truck	12 Vdc	1.7 liters	No	0.25cc / stroke	275 bar
F601990	Truck	24 Vdc	1.7 liters	No	0.25cc / stroke	275 bar

<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>	<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>
1	F601196	-	Cartridge cover kit	10	F602640	-	Pump element No. 3
2	F131720	-	Level indicator ring		F603007	-	Pump element No. 4
3	F130827	-	Cartridge NLGI-2		F602996	-	Pump element No. 5
4	F605363		Motor cover truck	11	F605362	-	Manometer kit
5	F605364		Timer kit 12V / 24V		F132023		Pressure indicator kit
6	F601399		Complete timer	12	F603571	-	Low level indicator kit
7	F602644	-	Motor 12 Vdc	13	F130726	-	Plug M12x1.5
	F602645	-	Motor 24 Vdc	14	F130769	-	Plug M20x1.5
8	F131345	-	Pump body	15	F603000		Manometer
9	F129488	-	Pump upper flange				

Release date: October 2016



Release date: October 2016

1.6 BreakAlube-3 hammer pumps 4 liters

<i>P/n new</i>	<i>P/n old</i>	<i>Supply voltage</i>	<i>Capacity reservoir</i>	<i>Number of outlets</i>	<i>Grease delivery</i>	<i>Maximum pressure</i>
F129096 ¹⁾	-	12 Vdc	4 liters	1	4 cc/min	275 bar
F129072 ¹⁾	-	24 Vdc	4 liters	1	4 cc/min	275 bar
F129095 ²⁾	-	24 Vdc	4 liters	1	4 cc/min	275 bar

¹⁾ Pump including grease.

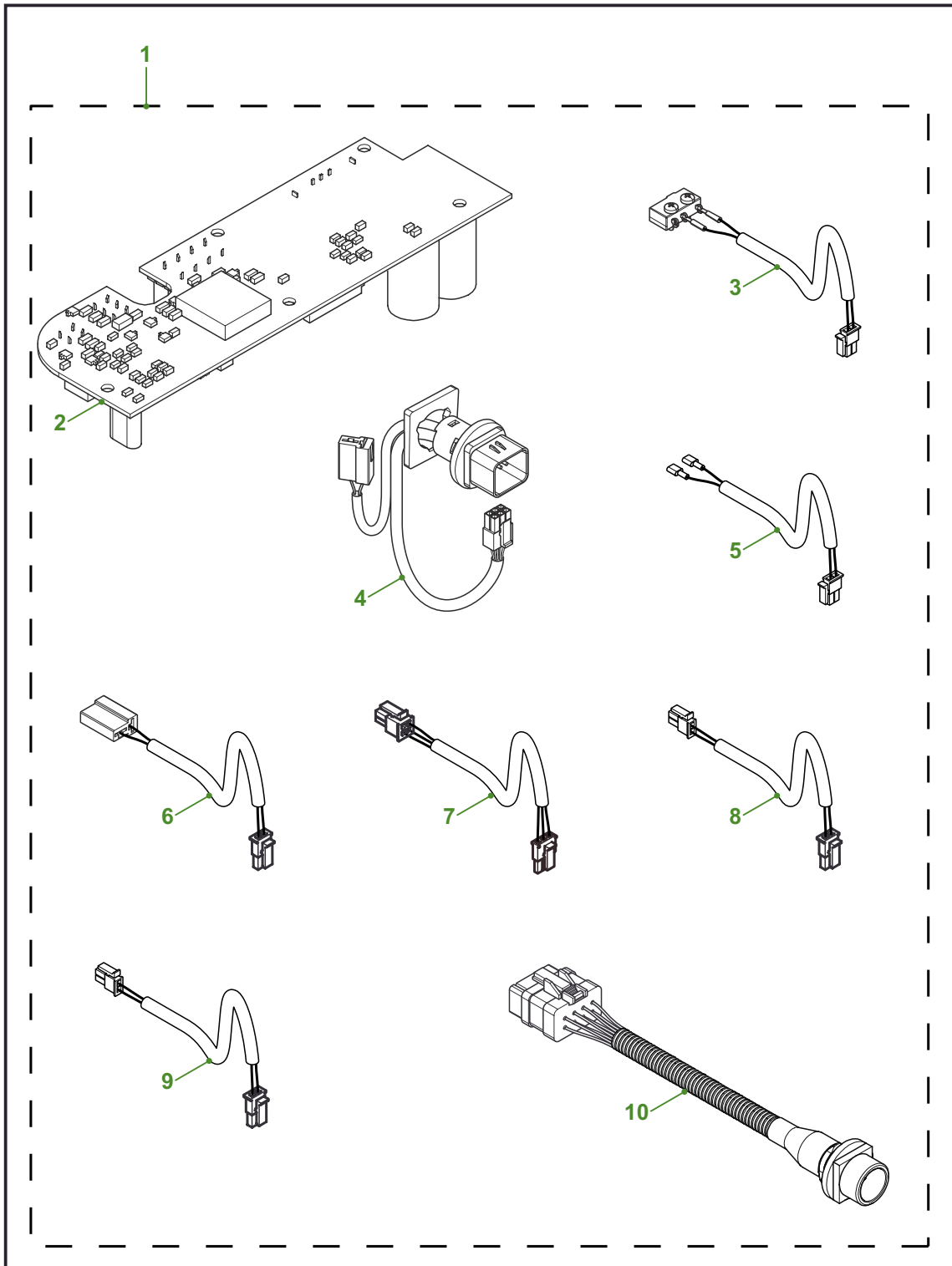
²⁾ Pump excluding grease.

<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>	<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>
1	F112915		Cover inc O-ring	13	F600581	-	Pump unit 12 Vdc
3	F172548	-	Reservoir 4 liter		F129105	-	Pump unit 24 Vdc
4	F111856	89301	O-ring	14	F130186	-	Timer 12 / 24 Vdc
5	F121160	-	Shaft kit 4 l reservoir	15	F112864	87701	Bottom cover
6	F127230	-	Follower plate 4 l	16	F112320	-	Pump body
7	F115745		Support kit	17	F112265	02816	Pump outlet plug
8	F129103	-	Cable harness	18	F112266	-	Pump outlet M12x1.5
9	F118171	-	Grease filter kit	19	F111296	88301	Timer clip
10	F117253	87301	Test switch	20	F129115	-	Cable harness
11	F112867	87401	Test switch kit	21	F120571	-	Pressure switch 20 bar
12	F601391	-	Low level sensor	22	F129108	-	Relief valve 300 bar

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.





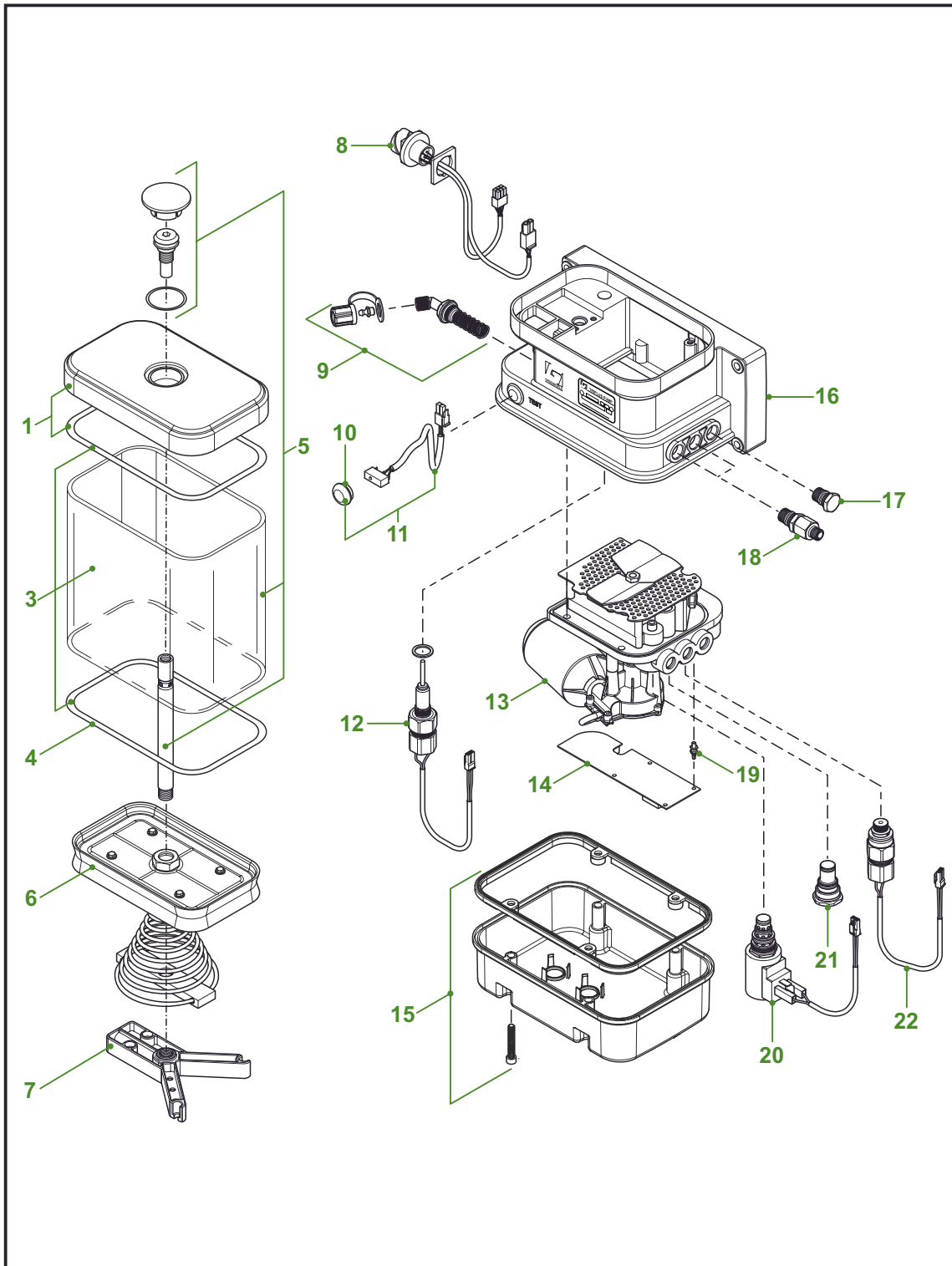
Release date: October 2016

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

<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>	<i>Pos</i>	<i>P/n new</i>	<i>P/n old</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	F112867	87401	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

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

<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>	<i>Pos</i>	<i>P/n new</i>	<i>P/n old</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	F112867	87401	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



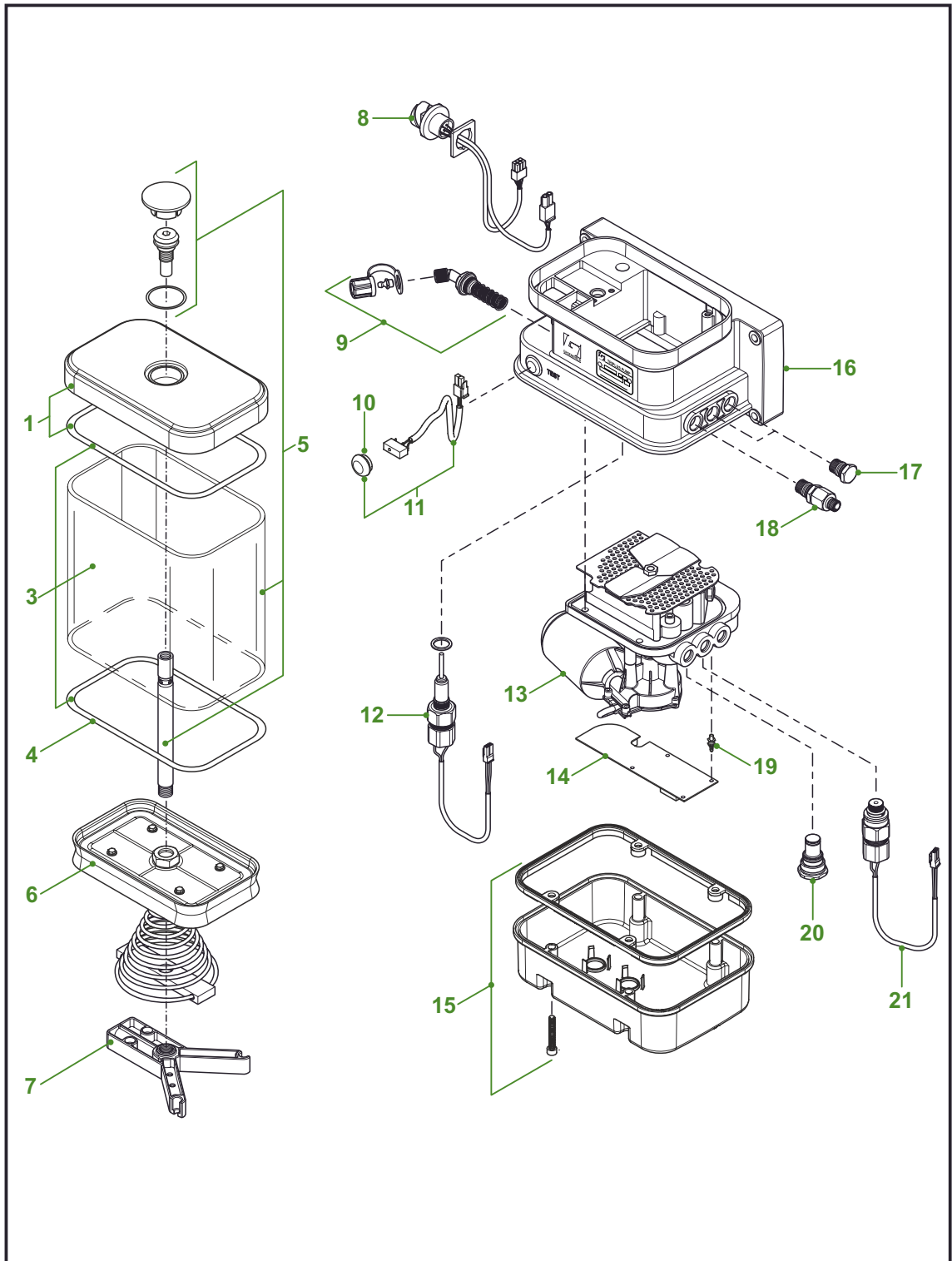
Release date: October 2016

1.9 TriPlus-2 truck pumps 1.5 - 4 liters (expired, replaced by TriPlus-3)

<i>P/n new</i>	<i>P/n old</i>	<i>Supply voltage</i>	<i>Capacity reservoir</i>	<i>Number of outlets</i>	<i>Grease delivery</i>	<i>Maximum pressure</i>
F120495	-	12 Vdc	1.5 liters	2	2.5 cc/min	275 bar
F125351	-	24 Vdc	1.5 liters	2	2.5 cc/min	275 bar
F113092	13016	24 Vdc	2 liters	1	2.5 cc/min	275 bar
F113817	05416	12 Vdc	3 liters	1	2.5 cc/min	275 bar
F124118	14916	12 Vdc	3 liters	3	2.5 cc/min	275 bar
F112672	02516	24 Vdc	3 liters	1	2.5 cc/min	275 bar
F111440	03416	24 Vdc	3 liters	2	2.5 cc/min	275 bar
F112671	03516	24 Vdc	3 liters	3	2.5 cc/min	275 bar
F113095	13116	24 Vdc	4 liters	1	2.5 cc/min	275 bar

<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>	<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>
1	F112915		Cover inc O-ring	10	F117253	87301	Push butt. test switch
3	F119664	-	Reservoir kit 1.5 liter	11	F170210		Test switch kit
	F115734	15716	Reservoir kit 2 liter	12	F115728	-	Low level sensor
	F172547	-	Reservoir kit 3 liter	13	F115762	-	Pump unit 12 Vdc
	F172548	-	Reservoir kit 4 liter		F115758	-	Pump unit 24 Vdc
4	F111856	89301	O-ring	14	F212093		Timer exchange kit *)
5	F121176	-	Shaft kit 1.5 l reservoir	15	F112864	87701	Bottom cover
	F121177	88901	Shaft kit 2 l reservoir	16	F112320	-	Pump body
	F121173	-	Shaft kit 3 l reservoir	17	F112265	02816	Pump outlet plug
	F121160	-	Shaft kit 4 l reservoir	18	F113672	02916	Pump outlet M12x1.5
6	F112862	89001	Follower plate 1.5 - 3 l	19	F111296	88301	Timer clip
	F127230	-	Follower plate 4 l	20	F113821	05616	Outlet kit 12 Vdc
7	F115745		Support kit		F113820	03716	Outlet kit 24 Vdc
8	F115730	-	Cable harness	21	F112264	-	Plug
9	F118171	-	Grease filter kit	22	F115726	-	Pressure switch 300bar

*) Replaces F117099 / F115738 timers



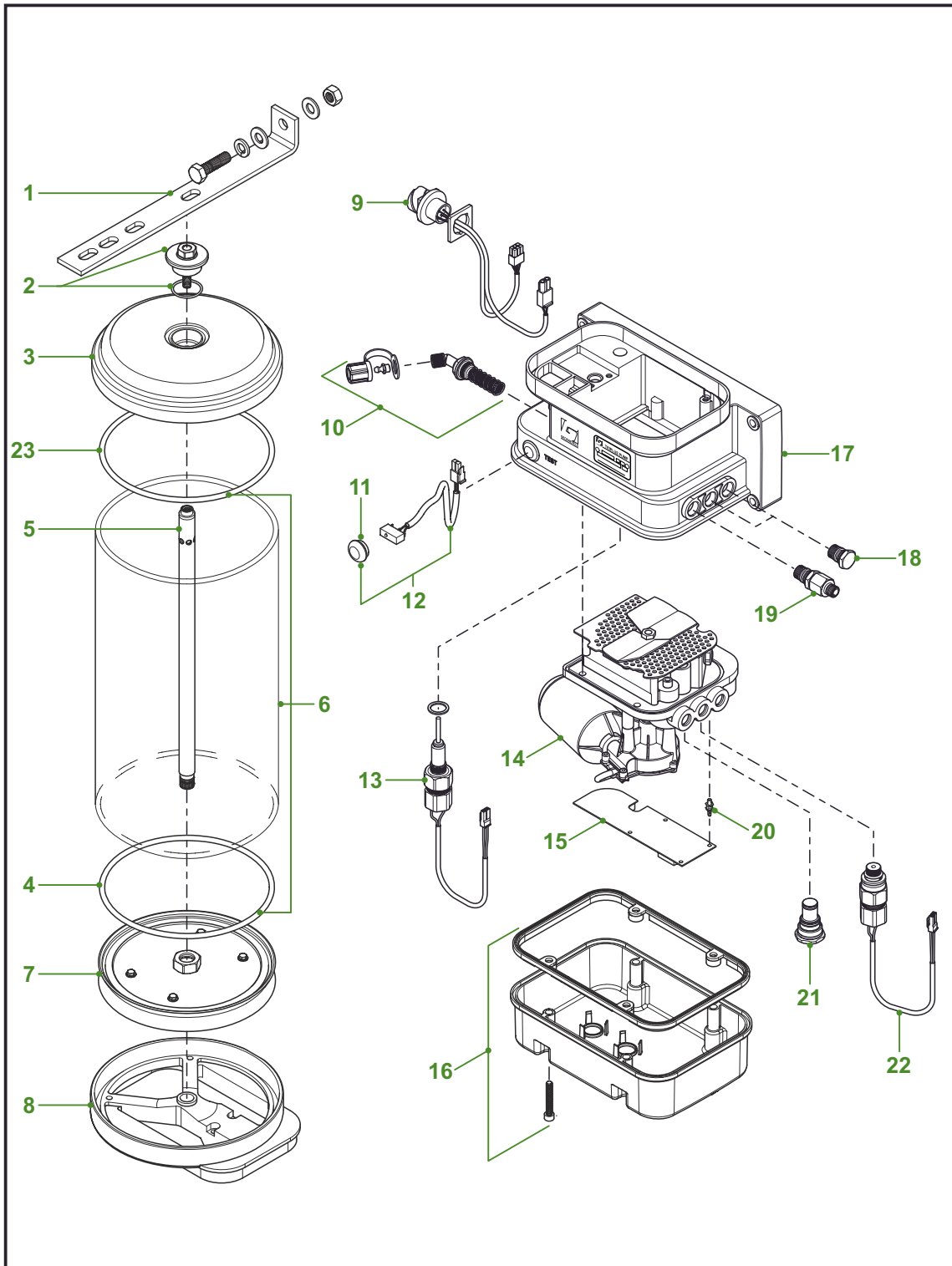
Release date: October 2016

1.10 TriPlus-2 trailer pumps 1.5 - 4 liters (expired, replaced by TriPlus-3)

<i>P/n new</i>	<i>P/n old</i>	<i>Supply voltage</i>	<i>Capacity reservoir</i>	<i>Number of outlets</i>	<i>Grease delivery</i>	<i>Maximum pressure</i>
F113641	03816	24 Vdc	3 liters	1	2.5 cc/min	275 bar

<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>	<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>
1	F112915		Cover inc O-ring	12	F115728	-	Low level sensor
3	F172547	-	Reservoir kit 3 liter	13	F115758	-	Pump unit 24 Vdc
4	F111856	89301	O-ring	14	F212094		Timer exchange kit *)
5	F121173	-	Shaft kit 3 l reservoir	15	F112864	87701	Bottom cover
6	F112862	89001	Follower plate 1.5 - 3 l	16	F112320	-	Pump body
7	F112590	08717	Support	17	F112265	02816	Pump outlet plug
8	F115730	-	Cable harness	18	F113672	02916	Pump outlet M12x1.5
9	F118171	-	Grease filter kit	19	F111296	88301	Timer clip
10	F117253	87301	Push butt. test switch	20	F112264	-	Plug
11	F170210		Test switch kit	21	F115726	-	Pressure switch 300bar

*) Replaces F117099 / F115738 timers



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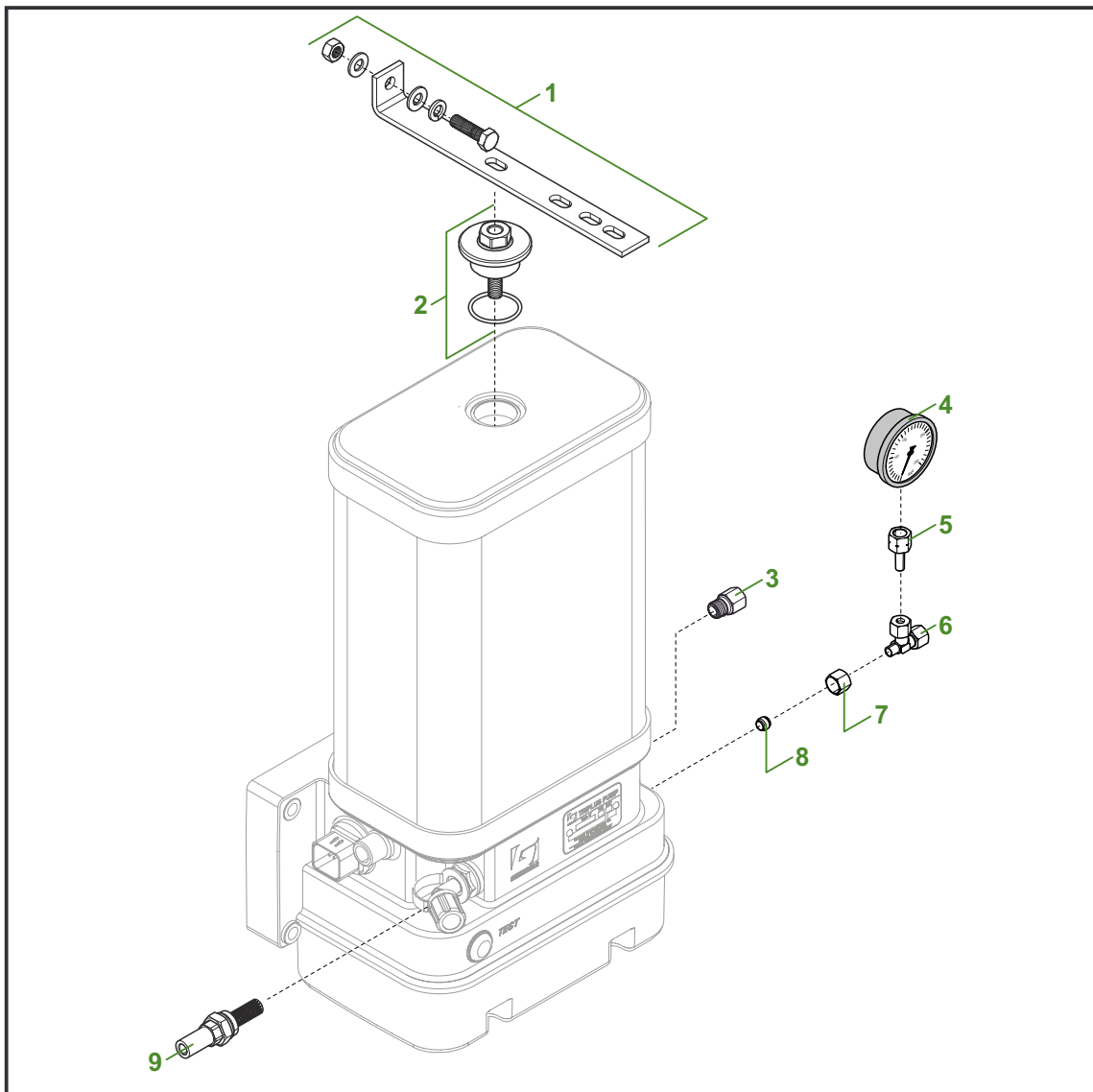
1.11 TriPlus-2 truck pumps 8 liters (expired, replaced by TriPlus-3)

<i>P/n new</i>	<i>P/n old</i>	<i>Supply voltage</i>	<i>Capacity reservoir</i>	<i>Number of outlets</i>	<i>Grease delivery</i>	<i>Maximum pressure</i>
F116991	-	24 Vdc	8 liters	1	2.5 cc/min	275 bar

<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>	<i>Pos</i>	<i>P/n new</i>	<i>P/n old</i>	<i>Description</i>
1	F116961	-	Bracket kit reservoir	12	F170210		Test switch kit
2	F604158	-	Screw + O-ring	13	F601390	-	Low level sensor
3	F103049	37501	Cover	14	F115758	-	Pump unit 24 Vdc
4	F110151	30601	O-ring	15	F212093		Timer exchange kit *)
5	F121174	21417	Shaft 8 l reservoir	16	F112864	87701	Bottom cover
6	F172535	35001	Reservoir kit 8 liter	17	F112320	-	Pump body
7	F117029	21517	Follower plate 8 l	18	F112265	02816	Pump outlet plug
8	F117037	-	Adapter 4 l -> 8 l	19	F113672	02916	Pump outlet M12x1.5
9	F115730	-	Cable harness	20	F111296	88301	Timer clip
10	F118171	-	Grease filter kit	21	F112264	-	Plug
11	F117253	87301	Test switch	22	F115726	-	Pressure switch 300bar
				23	F000715		O-ring

*) Replaces F117099 / F115738 timers

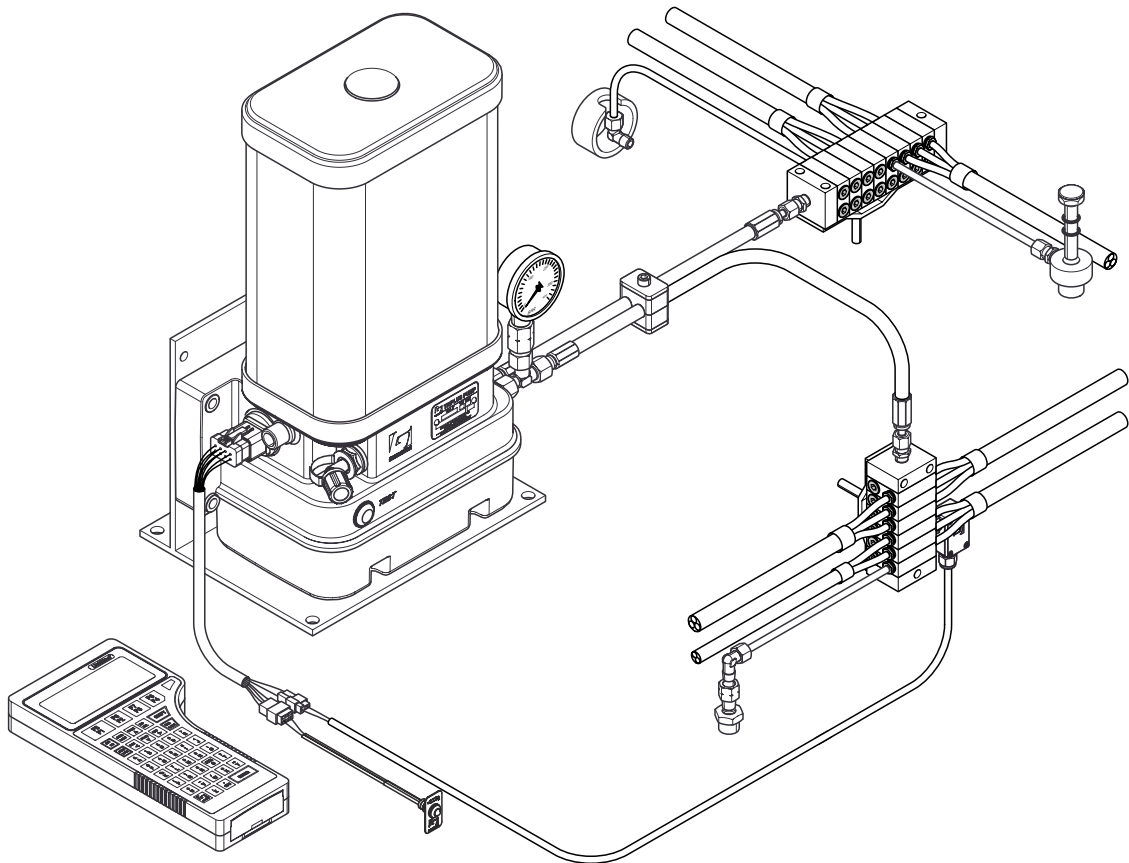
1.12 Optional parts



Pos	P/n new	P/n old	Description
1	F116961	-	Bracket kit reservoir
2	F604159	-	Screw + O-ring
3	F112487	-	Grease outlet 1/4" i/d
4	F119638	-	Manometer 0-400 bar
5	F114743	11616	Adapter ø6mm - G1/4"
6	F120891	11516	L-swivel coupling ø6mm
7	F113675	04716	Nut ø6mm - M12x1 (L-type)
8	F113676	04816	Cutting ring ø6mm (L-type)
9	F602134	-	Grease filter kit M8x1 i/d

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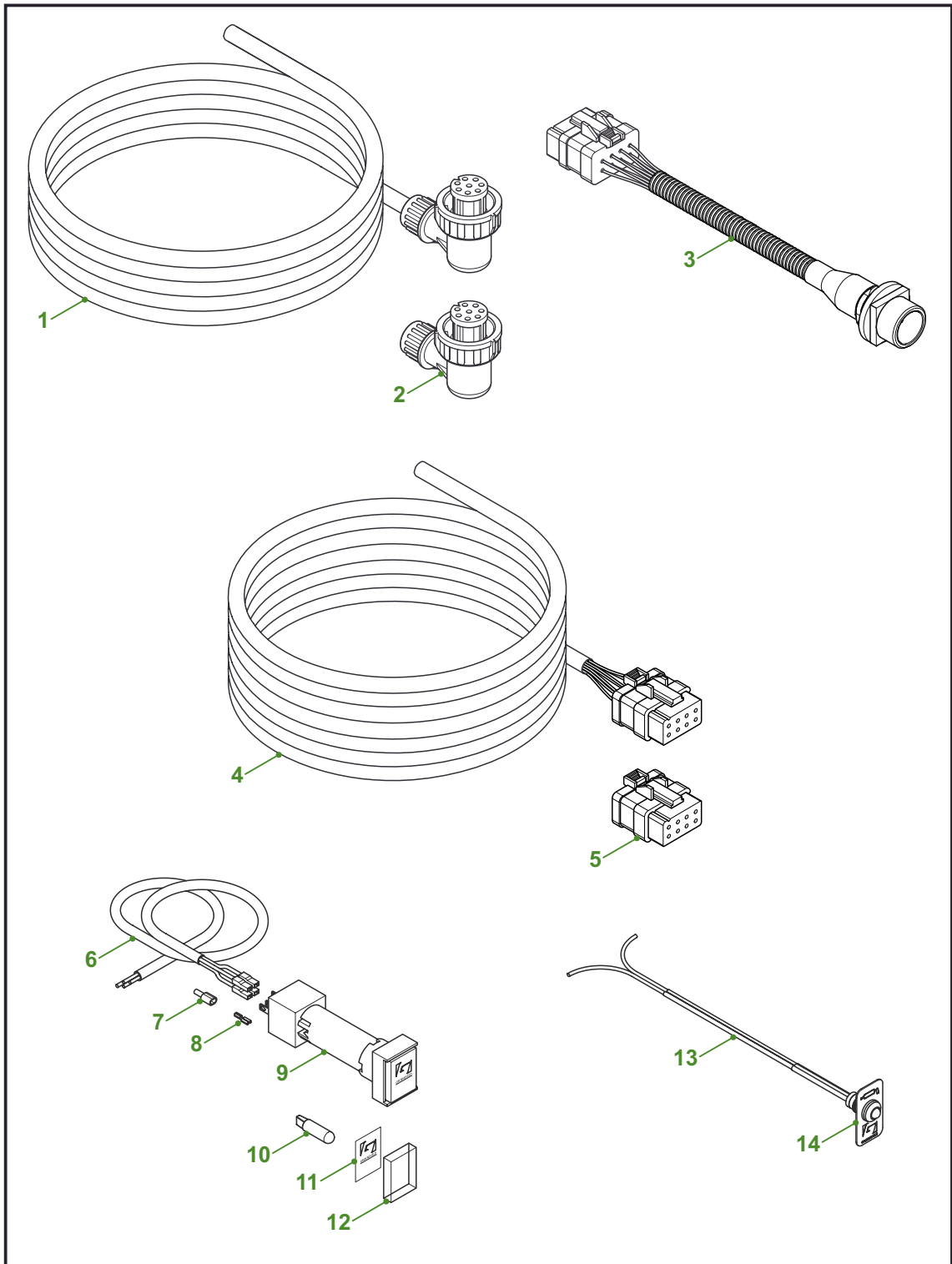
2. ELECTRICAL PARTS



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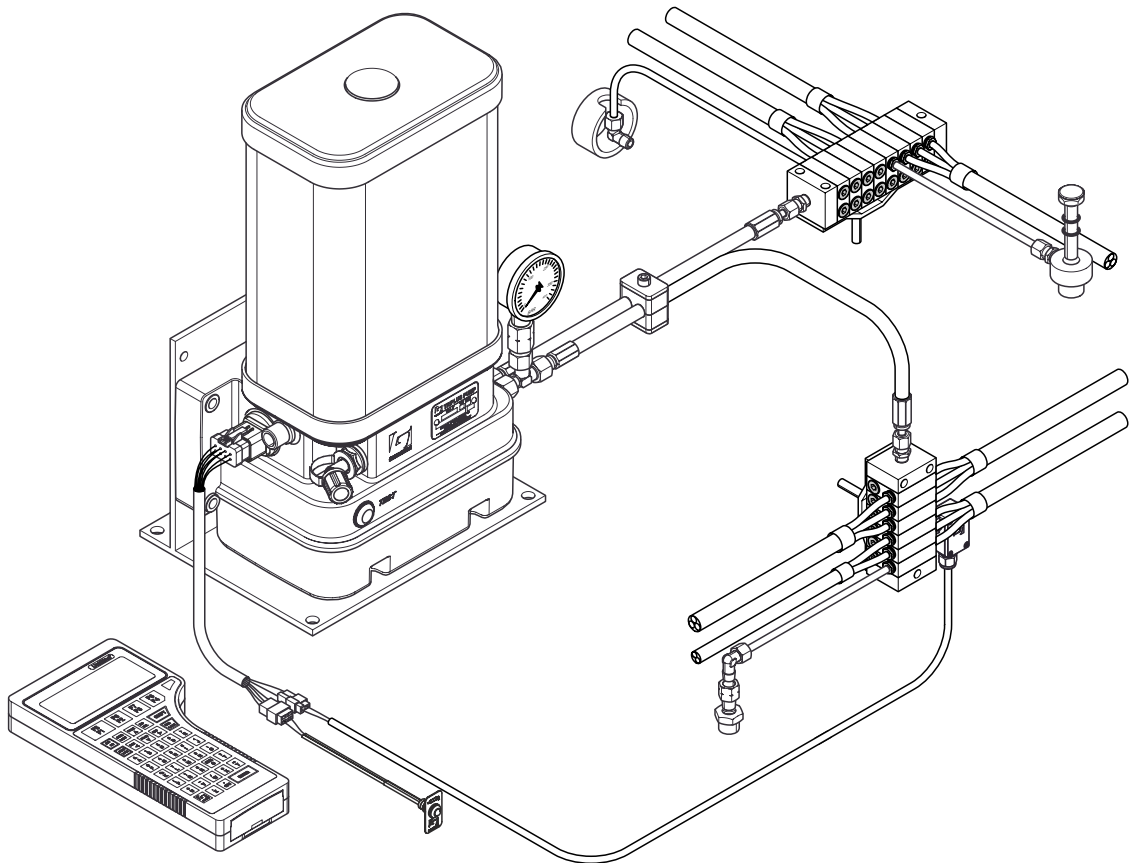
2.1 Electrical parts

Pos	P/n new	P/n old	Description
1	F108680	08116	BreakAlube-2 / OnePlus / TriPlus-2 cable harness 8-core / 7 meter / ADR
	F123744	08016	BreakAlube-2 / OnePlus / TriPlus-2 cable harness 8-core / 15 meter / ADR
	F108688	08316	TriPlus-2 cable harness 2-core / 12 meter / trailer
2	F114443	13112	BreakAlube-2 / OnePlus-2 / 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 8-core / 7 meter / truck
	F129827	-	BreakAlube-3 / TriPlus-3 cable harness 8-core / 15 meter / truck
	F129775	-	TriPlus-3 cable harness 3-core / 7 meter / trailer
	F129143	-	TriPlus-3 cable harness 5-core / 7 meter / trailer
	F123724	-	EcoPlus cable harness 8-core / 7 meter
	F123728	-	EcoPlus cable harness 8-core / 15 meter
	F129143		EcoPlus cable harness 5-core / 7 meter trailer
5	F127305	-	BreakAlube-3 / TriPlus-3 connector kit 8-core
6	F106633	15033	Cable harness
7	F113015	00617	Cover flat plate sleeve
8	F113014	00517	Flat plate sleeve
9	F175119	-	Switch 24 Vdc on/off
10	F112769	24933	Bulb 12 Vdc
	F116127	20633	Bulb 24 Vdc
11	F175122	-	Text window
12	F112842	86801	Lamp cover yellow
13	F105891	24009	LED yellow
14	F120306	97601	Text plate LED

Notes

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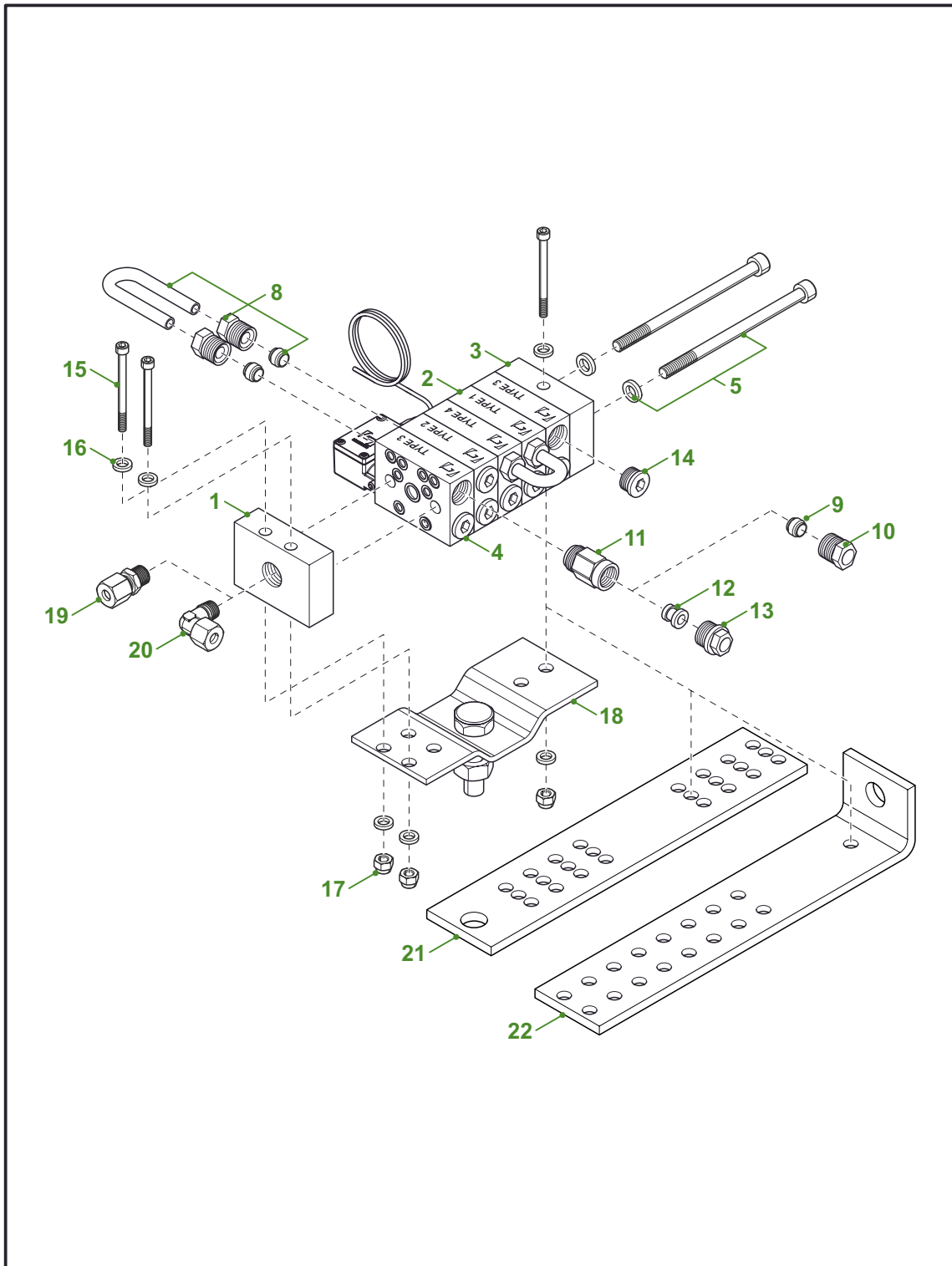
3. BLOCKS



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3.1 Blocks & block parts

Pos	P/n new	P/n old	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
8	F604852		By-pass kit 6mm Zn/Ni
9	F000585	10801	Cutting ring $\varnothing 3/16''$ BR
	F000658	09808	Cutting ring $\varnothing 6$ mm BR
	F114441		Cutting ring $\varnothing 6$ mm ST
10	F604856		Nut $\varnothing 3/16''$ - M12x1 Zn/Ni
	F604857		Nut $\varnothing 6$ mm - M12x1 Zn/Ni
11	F604855		Non-return valve Zn/Ni
12	F114060	06616	Push-in ring $\varnothing 3/16''$
	F114061	10316	Push-in ring $\varnothing 6$ mm
13	F604858		Push-in nut $\varnothing 3/16$ Zn/Ni
	F604859		Push-in nut $\varnothing 6$ mm Zn/Ni
14	F604860		Threaded plug M12x1 Zn/Ni
15	F110864	125045	Allen screw M5x45
	F604962		Allen screw M5x45 Zn/Ni
	F111740	125050	Allen screw M5x50
	F213345	125025	Allen screw M5x55
16	F173771	300005	Plain washer M5
	F604964		Plain washer M5 Zn/Ni
	F110867		lock washer M5
	F604965		lock washer M5 Zn/Ni
17	F116383	220005	Self-locking nut M5

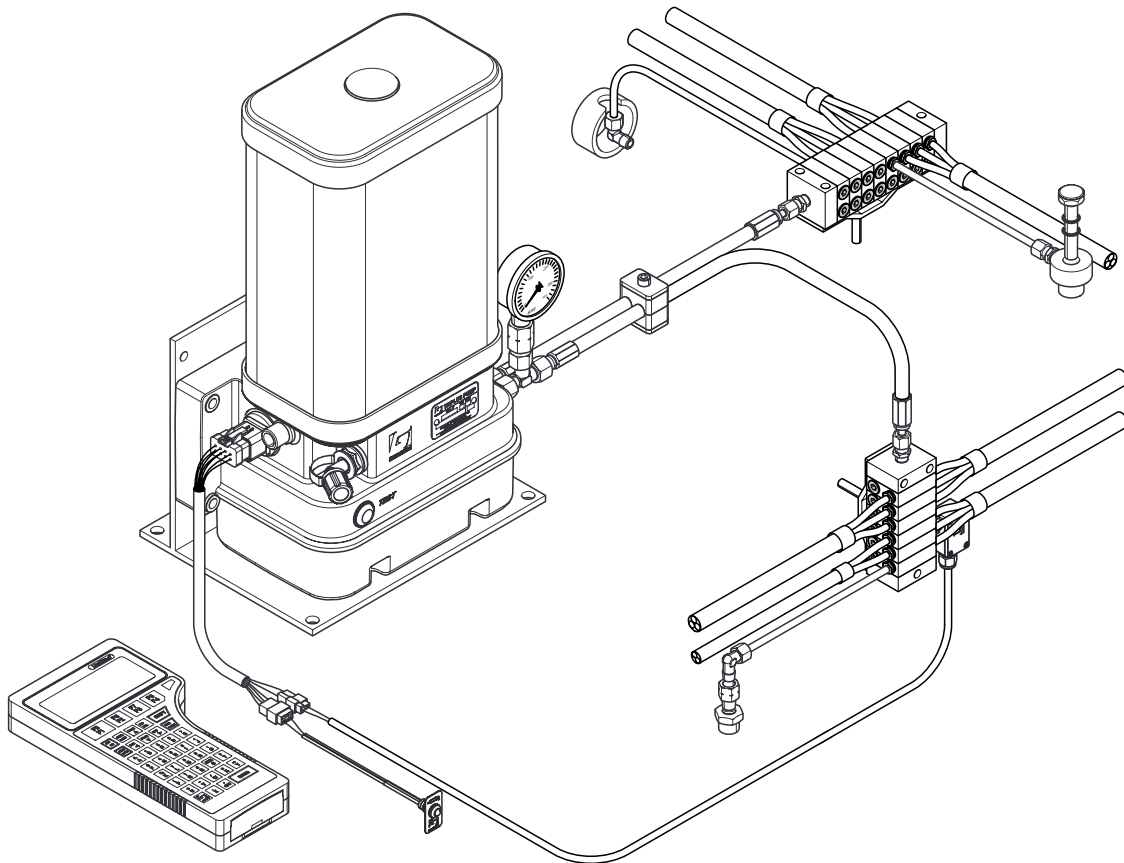
Release date: October 2016

Automatic Progressive Greasing Systems

Pos	P/n new	P/n old	Description
	F605537		Self-locking 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
19	F114874	43502	Male stud coupling M10x1 - ø6mm
20	F114877	43902	Male stud elbow M10x1 - ø6mm
21	F604956		Bracket 4 - 10 middle blocks Zn/Ni
22	F604907		Bracket 3 - 10 middle blocks Zn/Ni
	F604957		Bracket 4 - 12 middle blocks Zn/Ni

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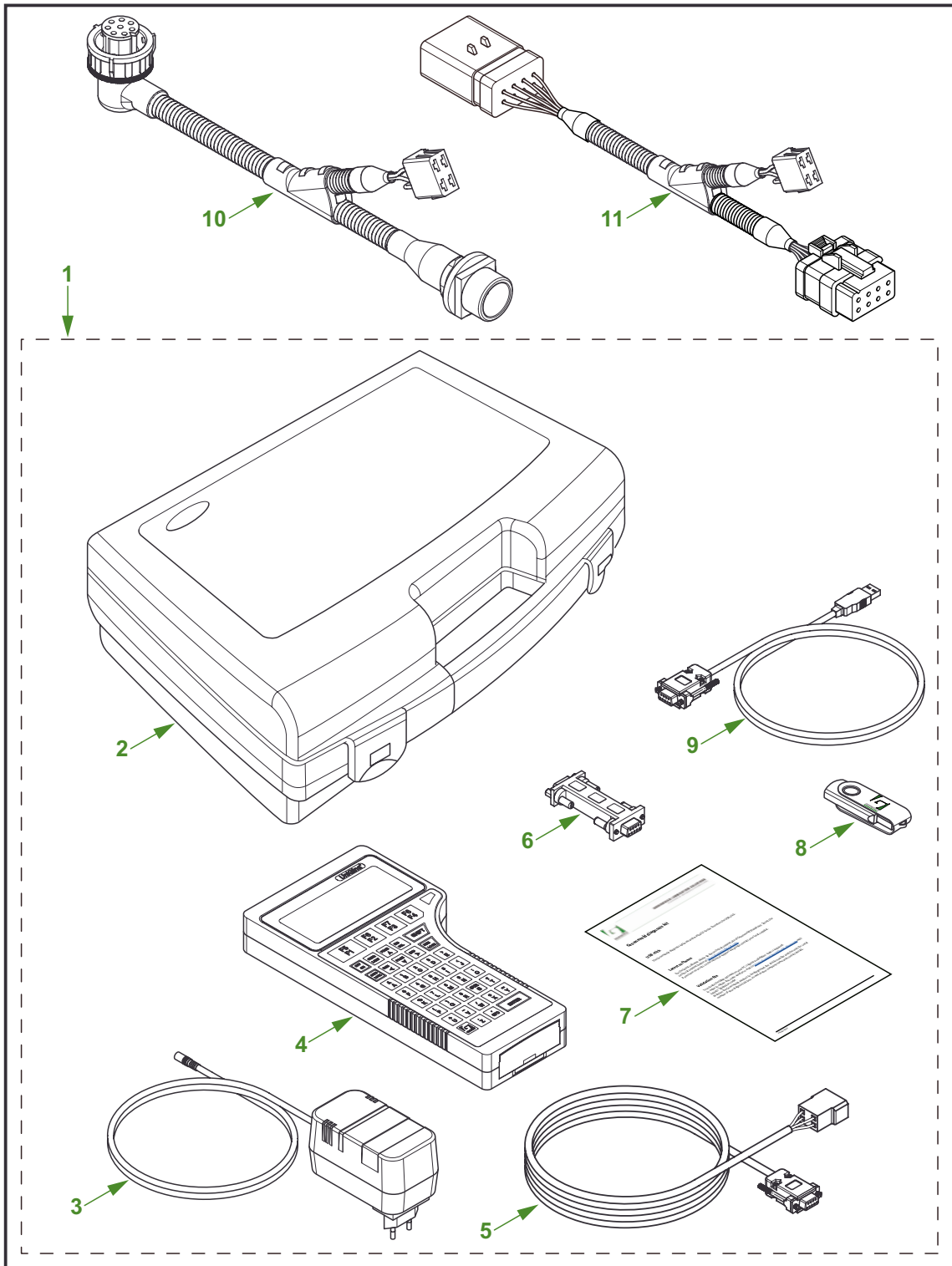
4. DIAGNOSTIC TOOLS



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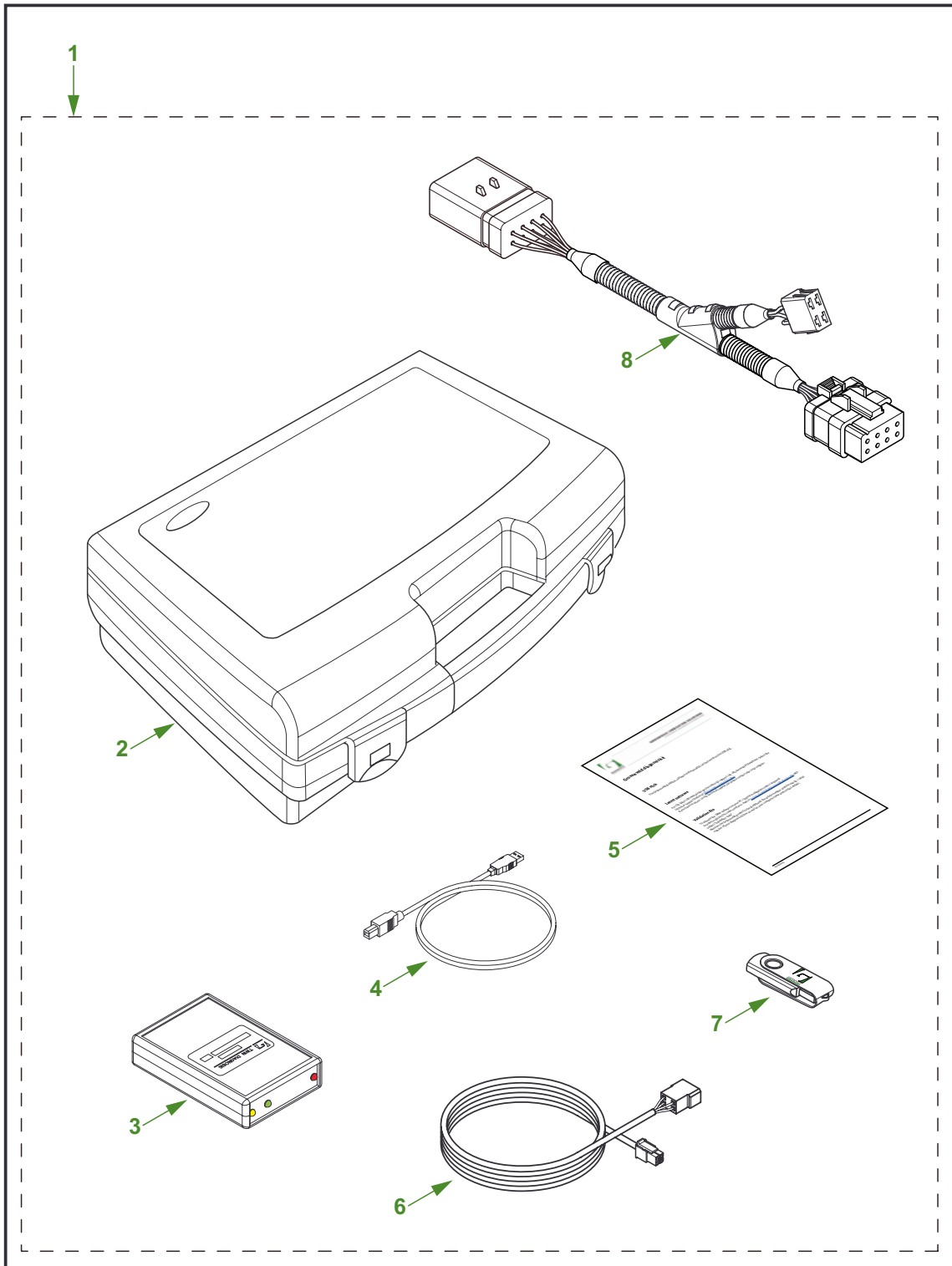
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4.1 UniGINA kit

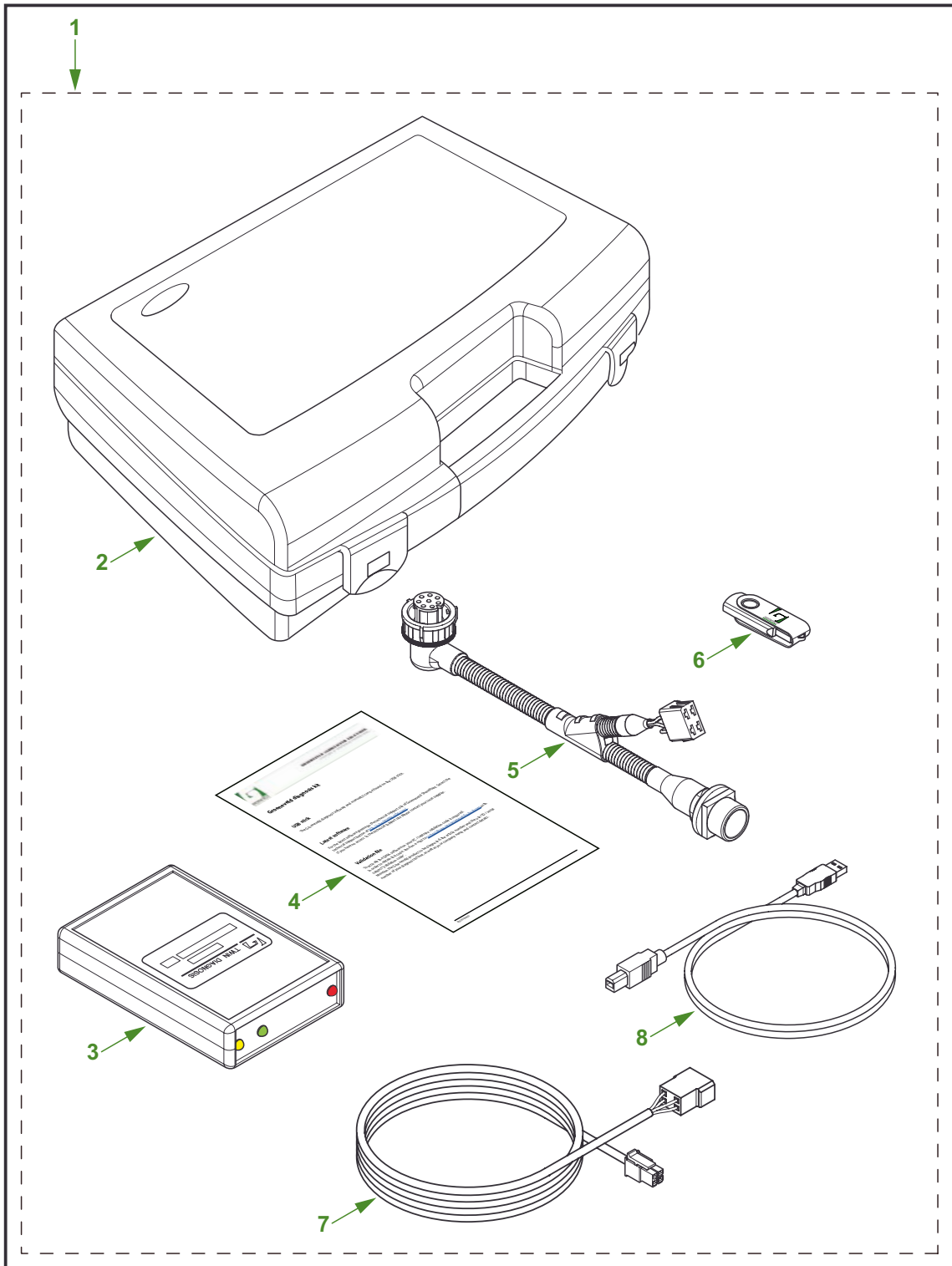
<i>Pos</i>	<i>Part nr.</i>	<i>Description</i>
1	F121604	UniGINA kit
2	F121605	Diagnosis case
3	F120537/1	Power supply UniGINA
4	F178644	UniGINA
5	F121401	Data cable UniGINA
6	F205694	Converter RS232
7	F603607	Diagnosis kit instruction
8	F603602	USB UniGINA
9	F127437	PC-UniGINA cable
-	F212313	Validation code TriPlus / BreakAlube / OnePlus
10	F113110	Y-cable TriPlus-2 / BreakAlube-2 / OnePlus / Oilmaster
11	F124310	Y-cable TriPlus-3 / BreakAlube-3 / Twin-3



Release date: October 2016

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

<i>Pos</i>	<i>Part nr.</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 TriPl/BrAl-3 license
8	F124310	Y-cable TriPlus-3 / BreakAlube-3 / Twin-3



Release date: October 2016

4.3 BreakAlube-2 PC-GINA kit

<i>Pos</i>	<i>Part nr.</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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