

SPARE PARTS BOOK

HA680



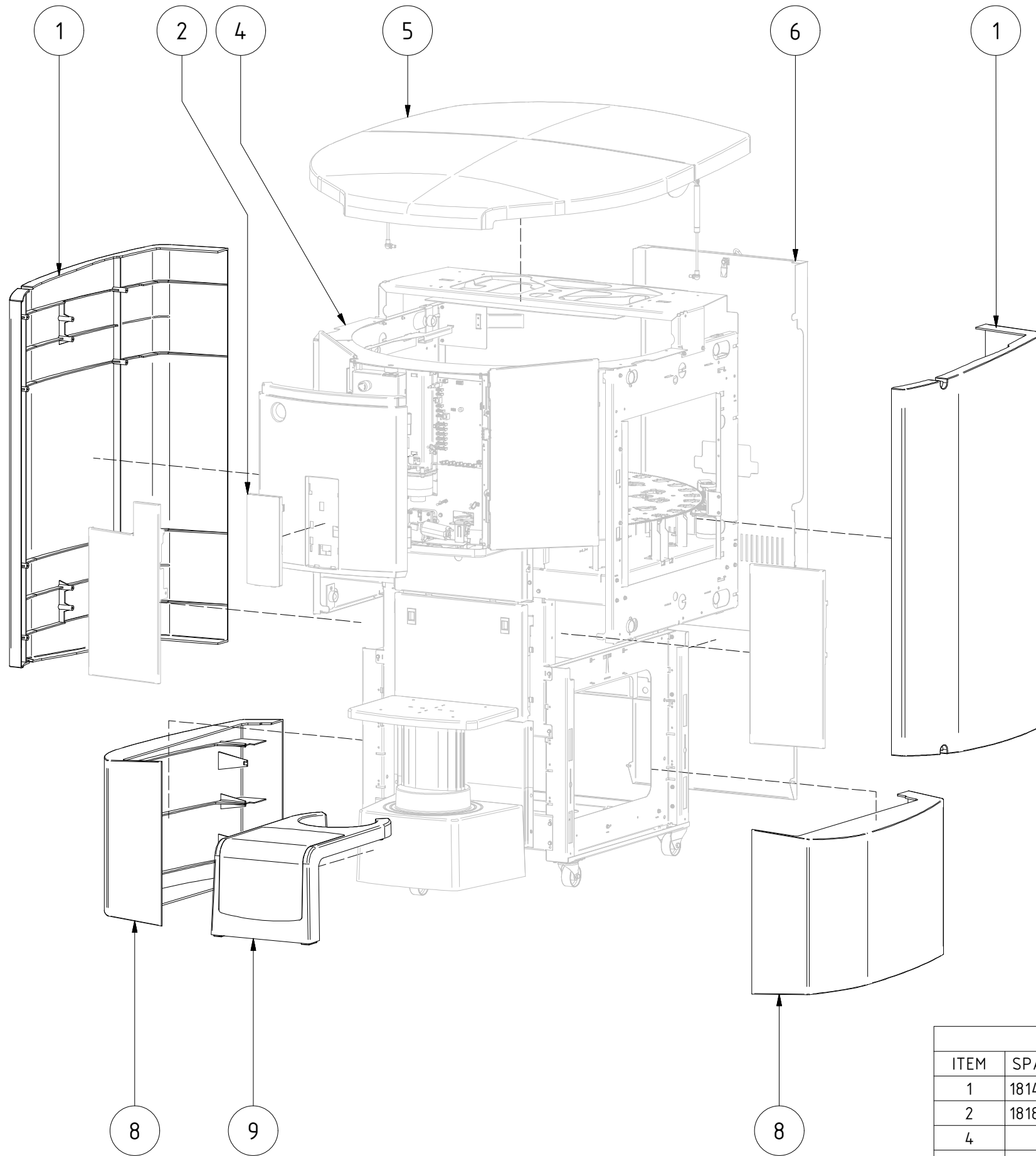
INDEX

Panels	7300
Top frame parts	7301
Top panel	7302
Back panel.....	7304
Operator display	1820239-SP 7305-B
Frame.....	7310
Can table	7313
Mechanica.....	7320
Gripper, spindle	7321-A
Gripper, spindle	7321-B
Valve motor unit	1819175-SP 7322
Emergency switch.....	7323
Sub frame.....	7330
Brush.....	7331-A
Brush.....	7331-B
Table drive motor unit.....	7332
Mid beam	7333
Power module	1818222-SP 7334-A
Power module UL	1820083 7334-B
Power module HAxx	1820013-SP 7334-C
Power module HAxx UL	1820083 7334-D
Canister plates	7335

Canisters	7340
3L,SST can,1ex,SST agit.....1863215-SP	7341
6L,SST can,1ex,SST agit.....1863216-SP	7342
10L,SST can,1ex,SST agit.....1810599-SP	7343
20L,SST can,std,1ex,SST agit.....1810603-SP	7344
3L,SST can,1ex,POM agit1809888-SP	7345
6L,SST can,1ex,POM agit1810596-SP	7346
3L,POM can,1ex,POM agit.....1865011-SP	7347
6L,POM can,1ex,POM agit.....1865012-SP	7348
10L,SST can,inn,2ex,SST agit.....1810602-SP	7349
20L,SST can,inn,2ex,SST agit.....1810761-SP	7350
10L,SST can,out,2ex,SST agit.....1813689-SP	7351
20L,SST can,out,2ex,SST agit.....1810763-SP	7352
 Pumps, Tubes & Tools	 7360
Pump,ballvalve,100ml 1818238-SP	7361
Pump,ballvalve, 300ml 1818310-SP	7362
Pump,ballvalve, 55ml 1819612-SP	7363
Pump,ballvalve, 100ml Hybrid 1830359-SP	7364
Pump,ballvalve, 300ml Industrial..... 1819917-SP	7365
Pump,ballvalve, 100ml Industrial, High Performance 1820345-SP.....	7366
Pump,ballvalve, 300ml Industrial, High Performance 1820328-SP.....	7367
Pump,ballvalve, 29ml 1819671-SP	7368
Tool 300 ml-pump.....	7369

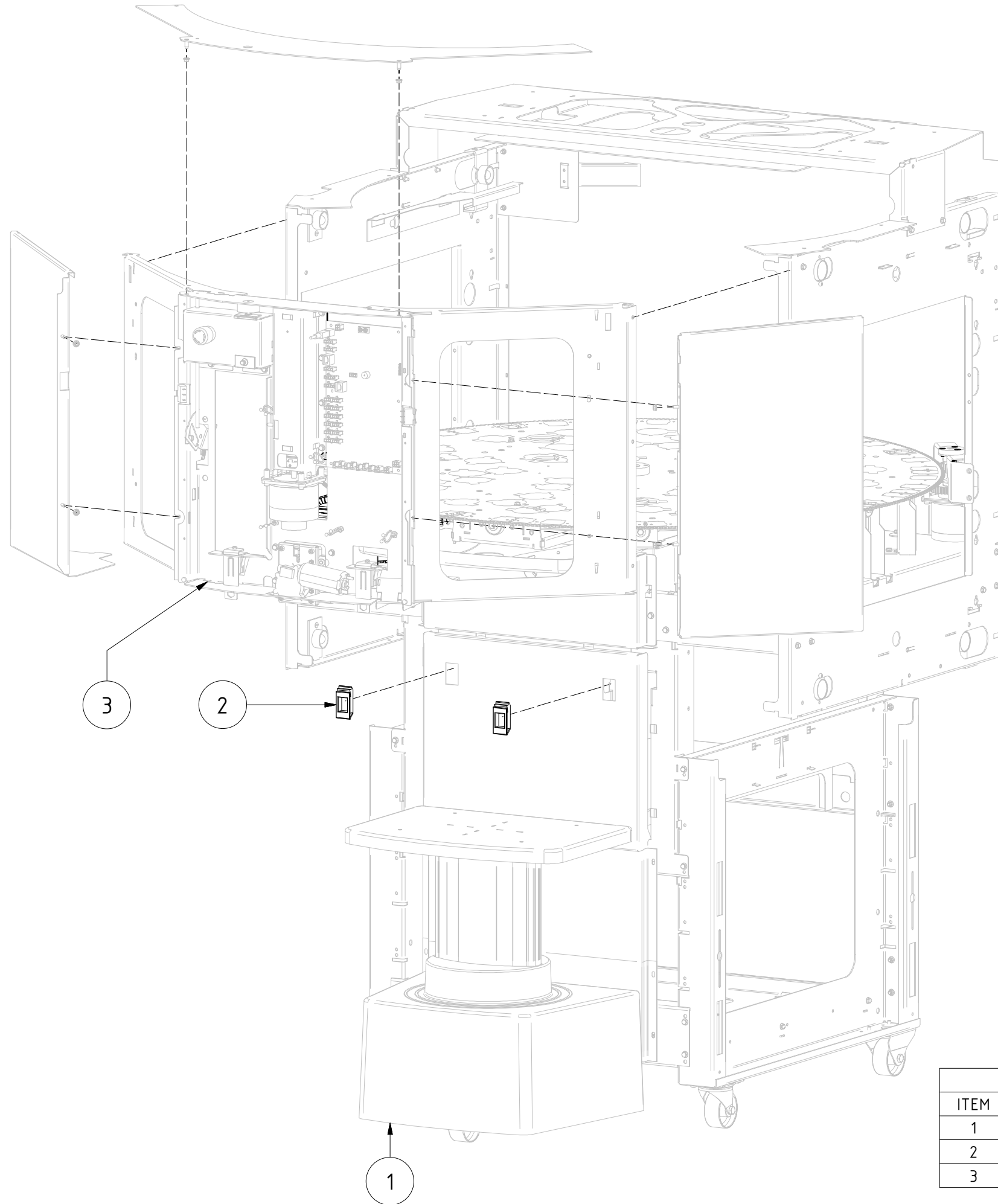
Punch.....	7371
Heating module.....1865765-SP	7374
Sample brush.....	7377
Sample brush container	7378
Sample brush float	7379
Can positioning light	7380
Sample bearing plate, valve motor	7381

7300 Panels



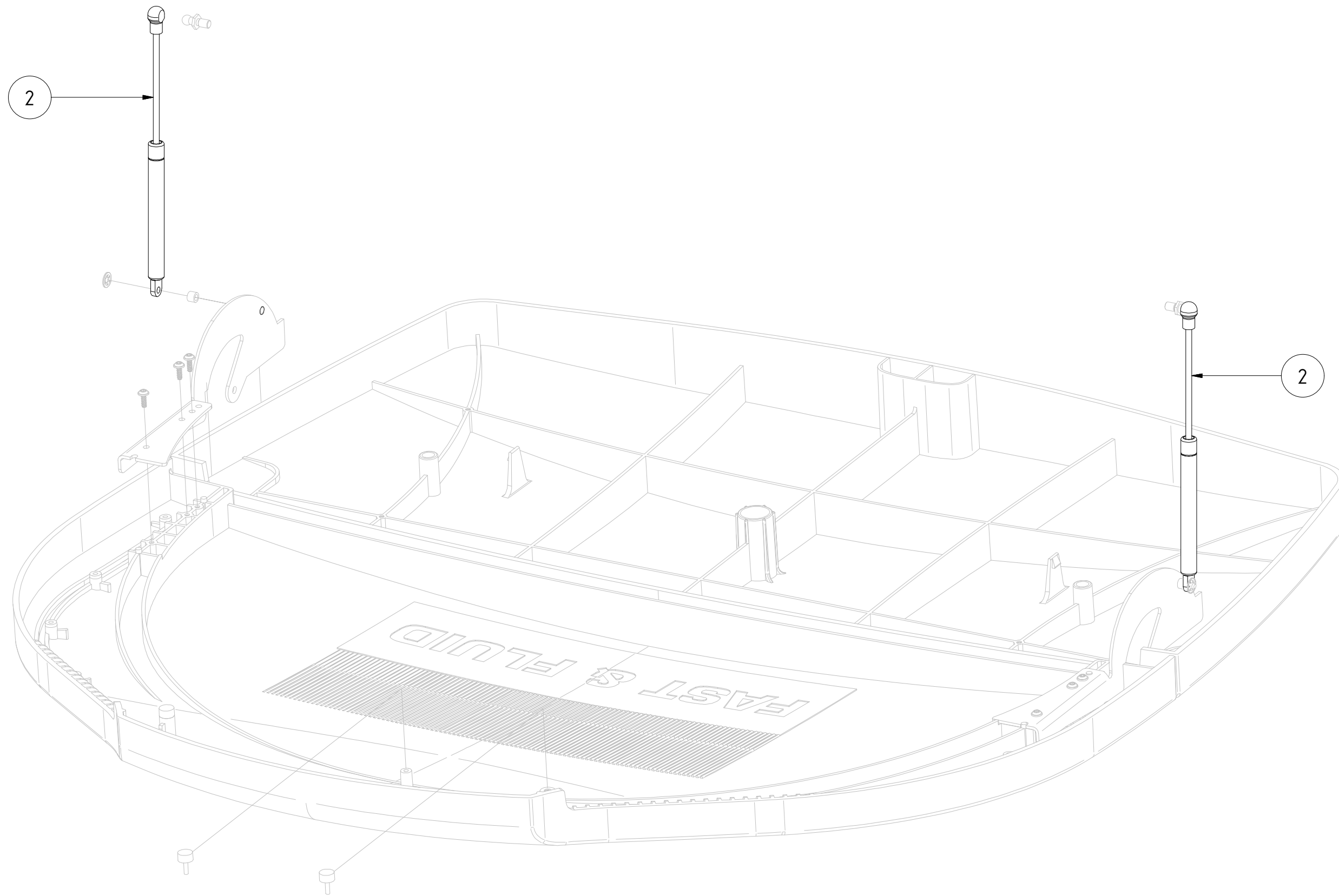
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1814593-D-SP	Panel,side,top,HA650,RAL7016	
2	1818275-SP	Operator display complete	Page 7305
4		Top frame parts	Page 7301
5		Top panels	Page 7302
6		Back panel	Page 7304
8	1814594-SP	panel,bot.RL,HA650	
9	1864480-SP	Step,HA	

7301 Top frame parts



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1		Frame	Page 7310
2	1862332-SP	Latch,slide,40-525, 2 pcs	
3		Mechanica	Page 7320

7302 Top panel



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
2	1864203-SP	Gas-spring,100N,023689	

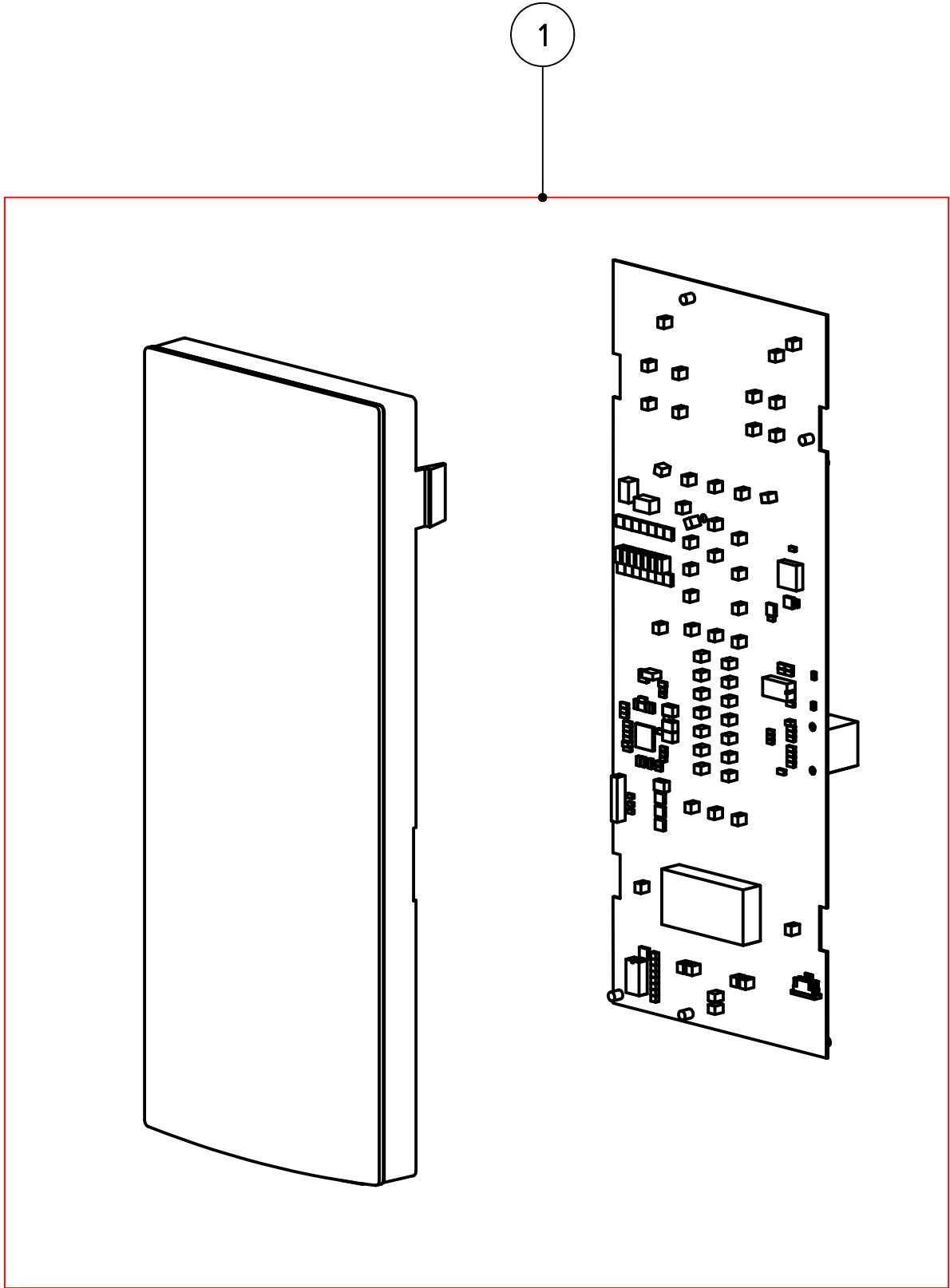
7304

Back panel



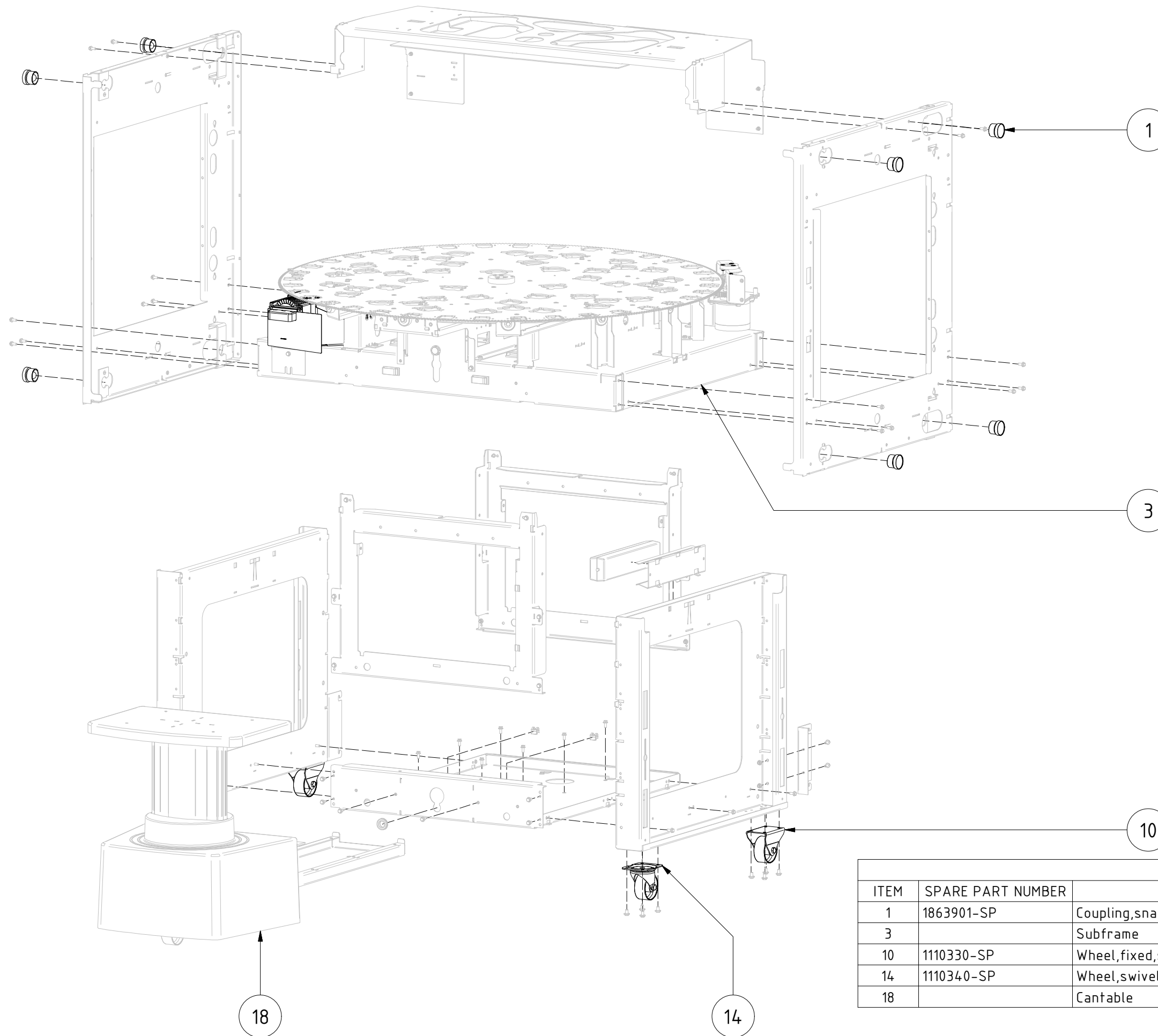
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1862860-SP	Quad,panel,latche	
2	1111010-SP	Key,triangle	

7305-B Operator display 1820239-SP



PARTS LIST				
ITEM	PART NUMBER	DESCRIPTION	REMARKS	QTY
1	1820239-SP	Operator,Display,Module,V2		1

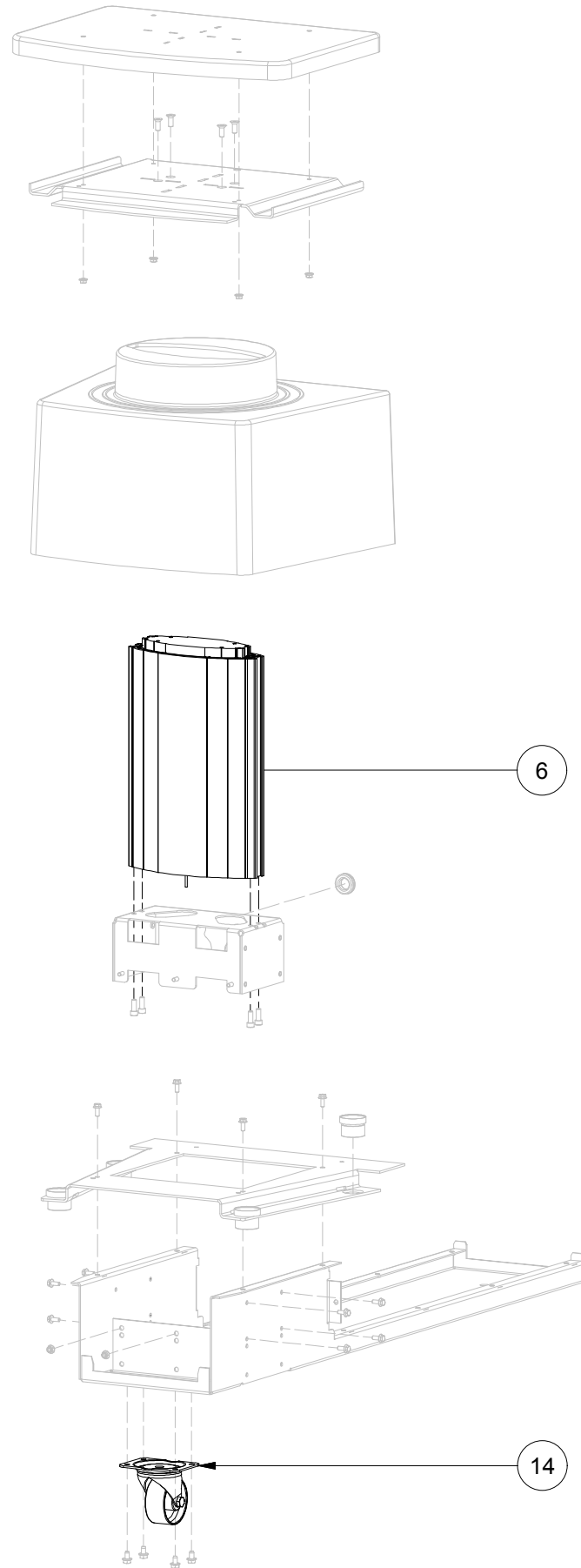
7310 Frame



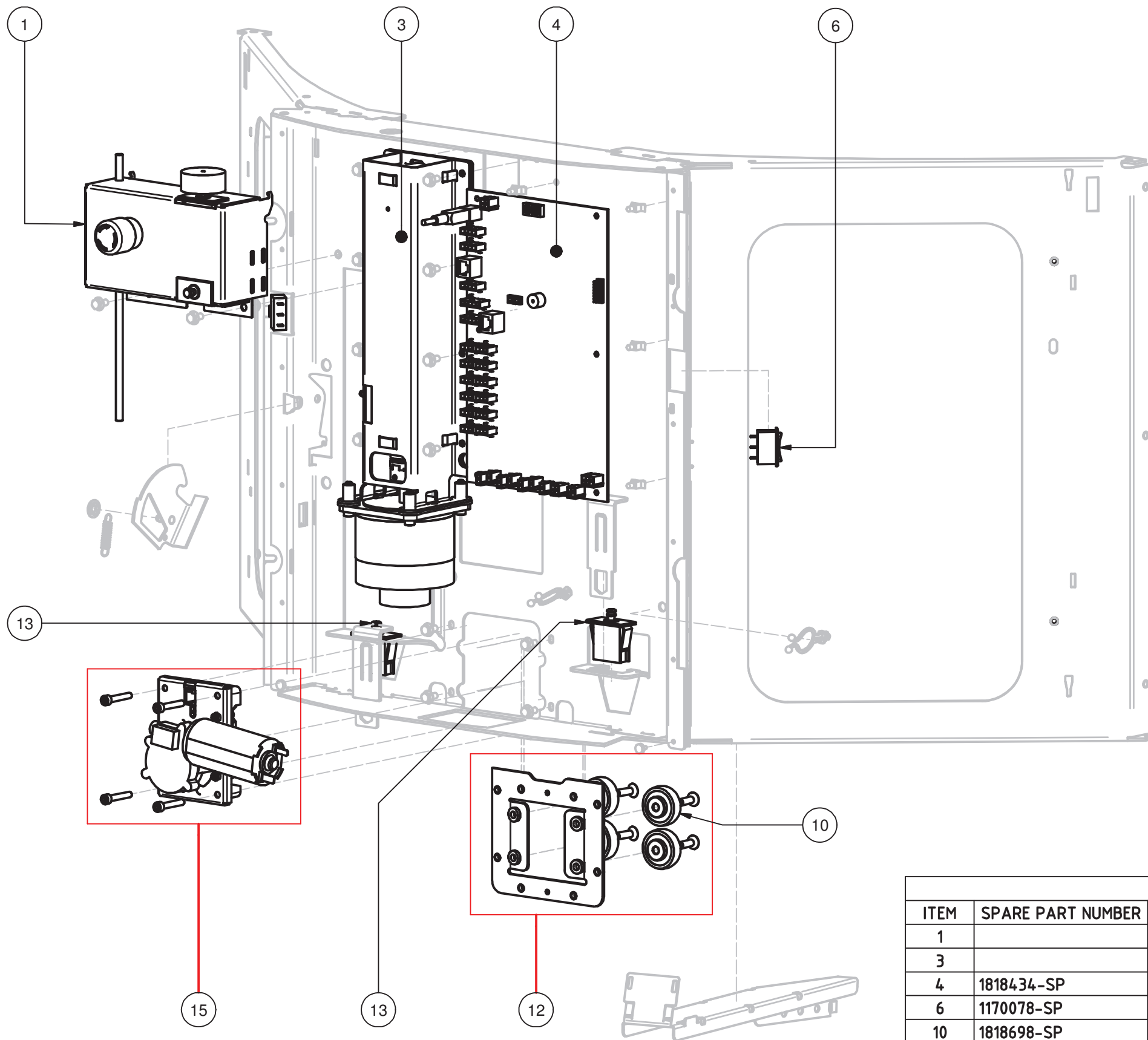
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1863901-SP	Coupling,snaplock,Ø15,black,4x	
3		Subframe	Page 7330
10	1110330-SP	Wheel,fixed,set 2 pcs	
14	1110340-SP	Wheel,swiveling,set 4 pcs	
18		Cantable	Page 7313

7313

Can table



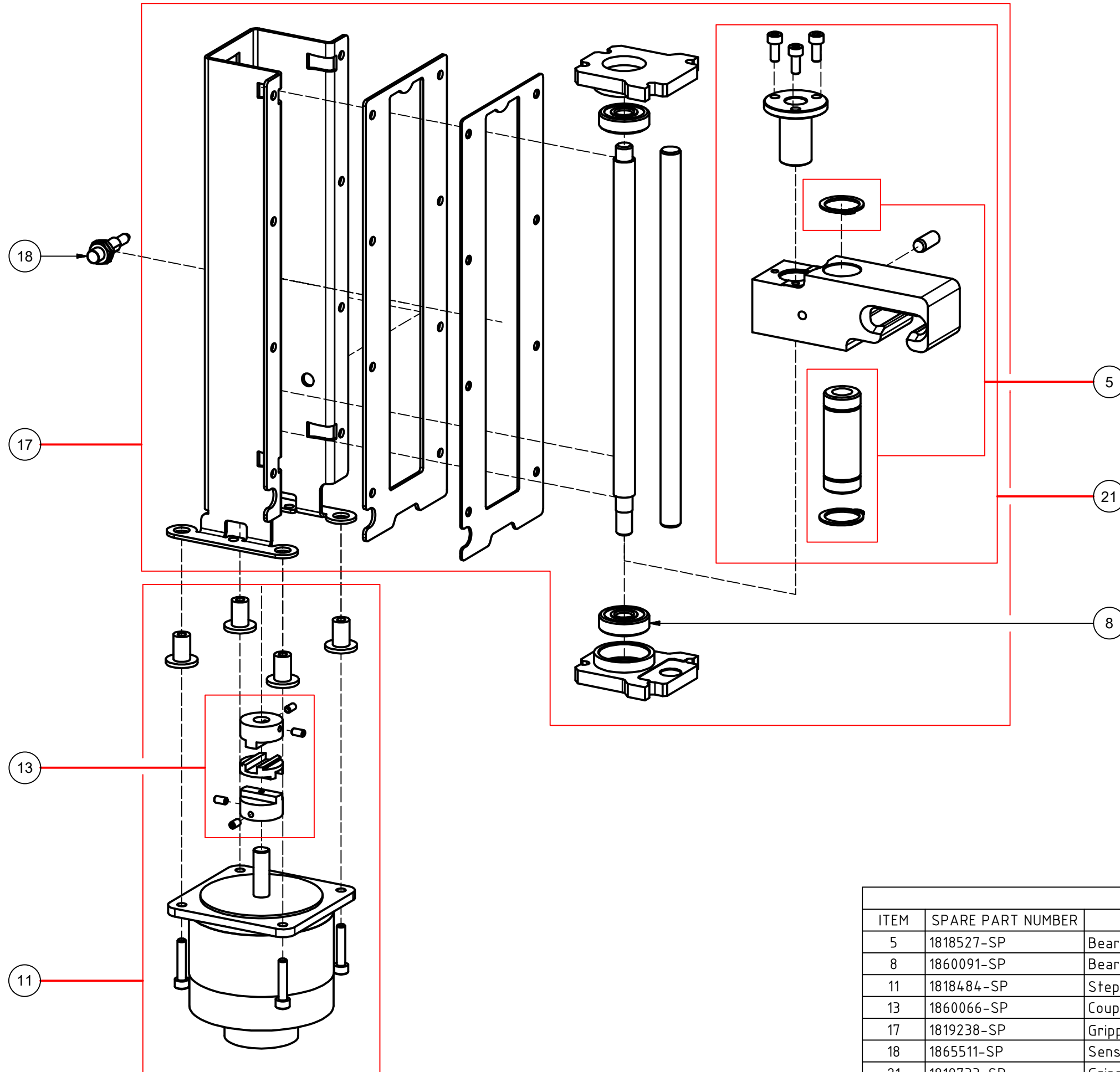
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
6	1865600-SP	Actuator cantable+ screws	
14	1110340-SP	Wheel,swiveling,set 4 pcs	



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1		Emergency switch	Page 7323
3		Gripper, spindle	Page 7321-A
4	1818434-SP	Controlboard, v5	
6	1170078-SP	Switch, up/down, single, 6A, 250V	
10	1818698-SP	Wheel, asymmetric, 35mm (set 4 pcs)	
12	1818497-SP	Bearings, turntable (set 1 pc)	
13	1812528-SP	Switch, D2D 1100	
15	1819175-SP	Valve unit compl. NGH (set 1 pc)	

7321-A Gripper, spindle

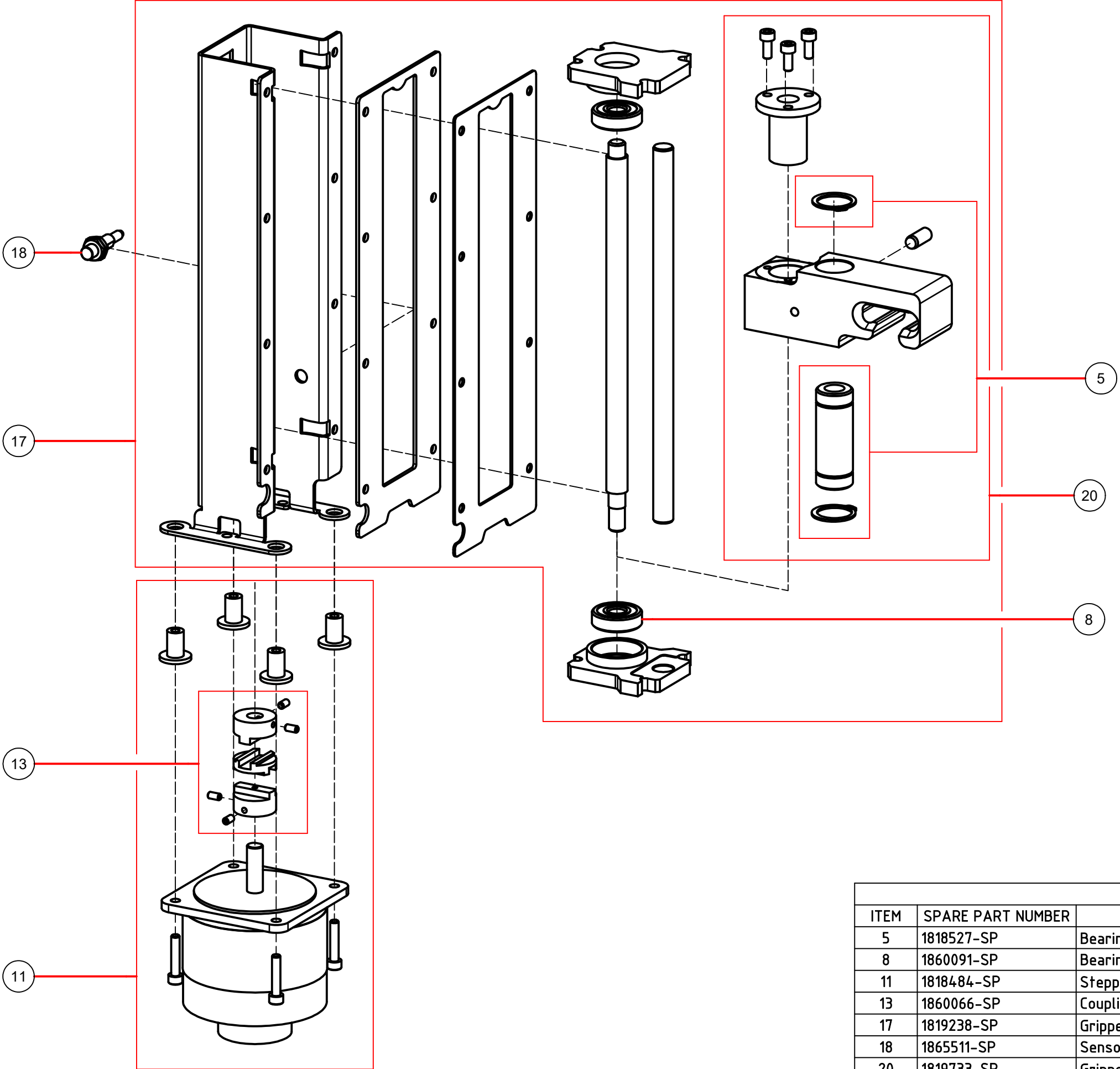
Up to W26 2018, S.N.1055332



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
5	1818527-SP	Bearing,gripper(set 1pc)	
8	1860091-SP	Bearing,ball,6200ZZ, set, 2pcs	
11	1818484-SP	Stepper,complete (set 1pc)	
13	1860066-SP	Coupling,Motor,Gripper,kit	
17	1819238-SP	Gripper,spindle, (set 1pc)	
18	1865511-SP	Sensor2/4/8,HA	Part of cable harness 1865744
21	1819733-SP	Gripper (set 1 pcs)	

7321-B Gripper,spindle

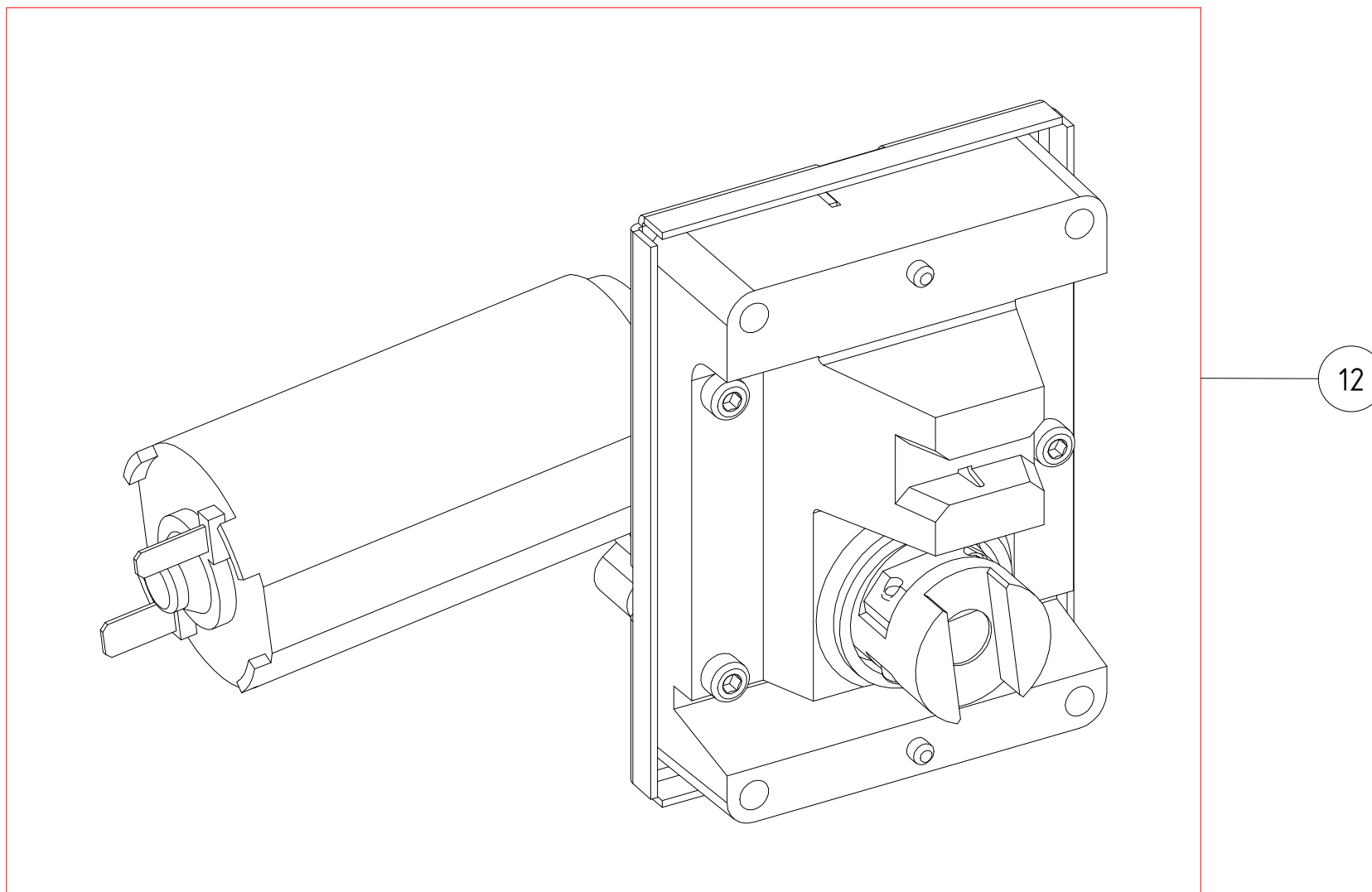
From W26 2018,S.N.1056073



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
5	1818527-SP	Bearing,gripper(set 1pc)	
8	1860091-SP	Bearing,ball,6200ZZ, set, 2pcs	
11	1818484-SP	Stepper,complete (set 1pc)	
13	1860066-SP	Coupling,Motor,Gripper,kit	
17	1819238-SP	Gripper,spindle, (set 1pc)	
18	1865511-SP	Sensor2/4/8,HA	Part of cable harness 1865744
20	1819733-SP	Gripper,spindle, (set 1pc)	

7322

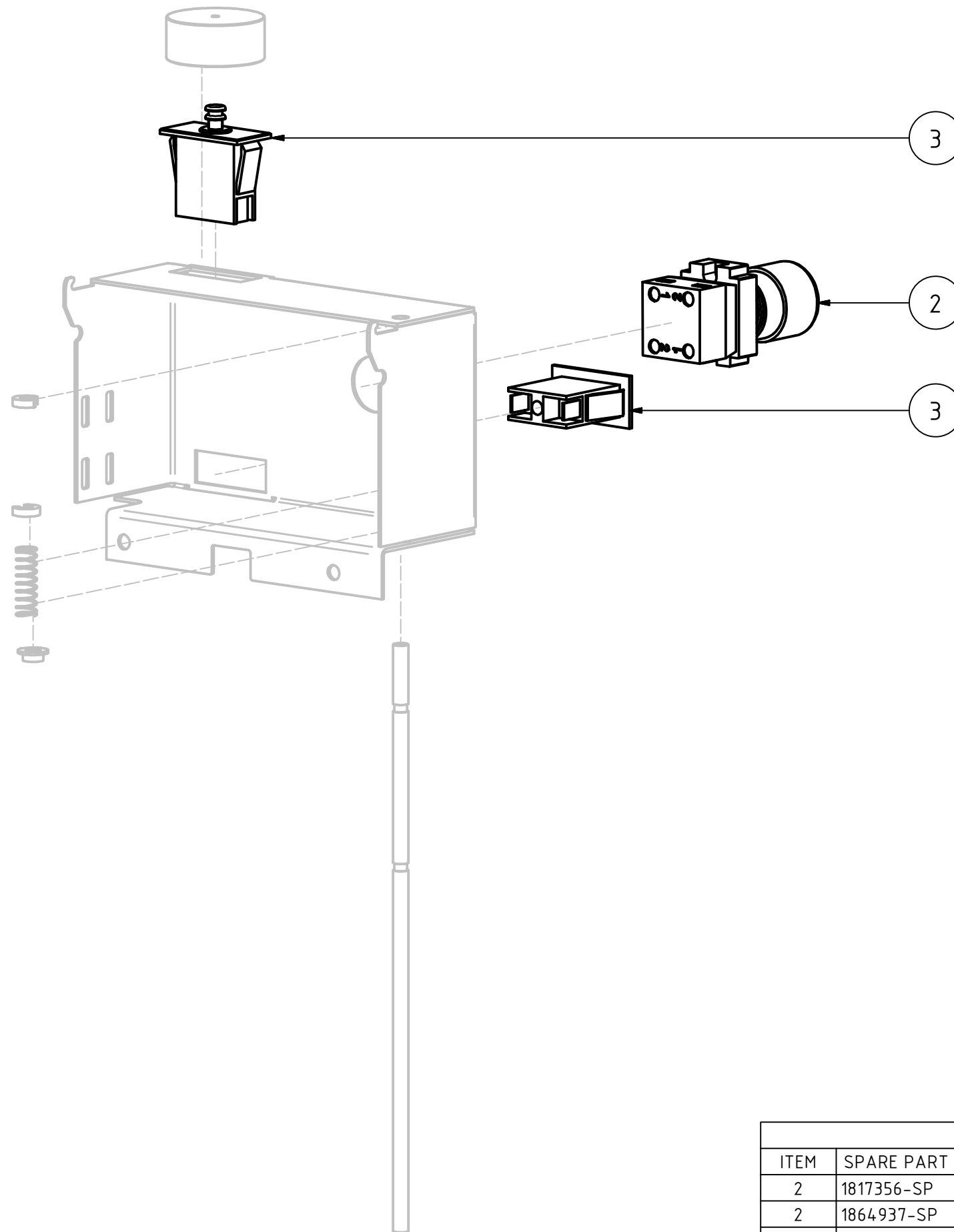
Valve motor unit 1819175 -SP



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
12	1819175-SP	Valve unit complete (set 1pc)	

7323

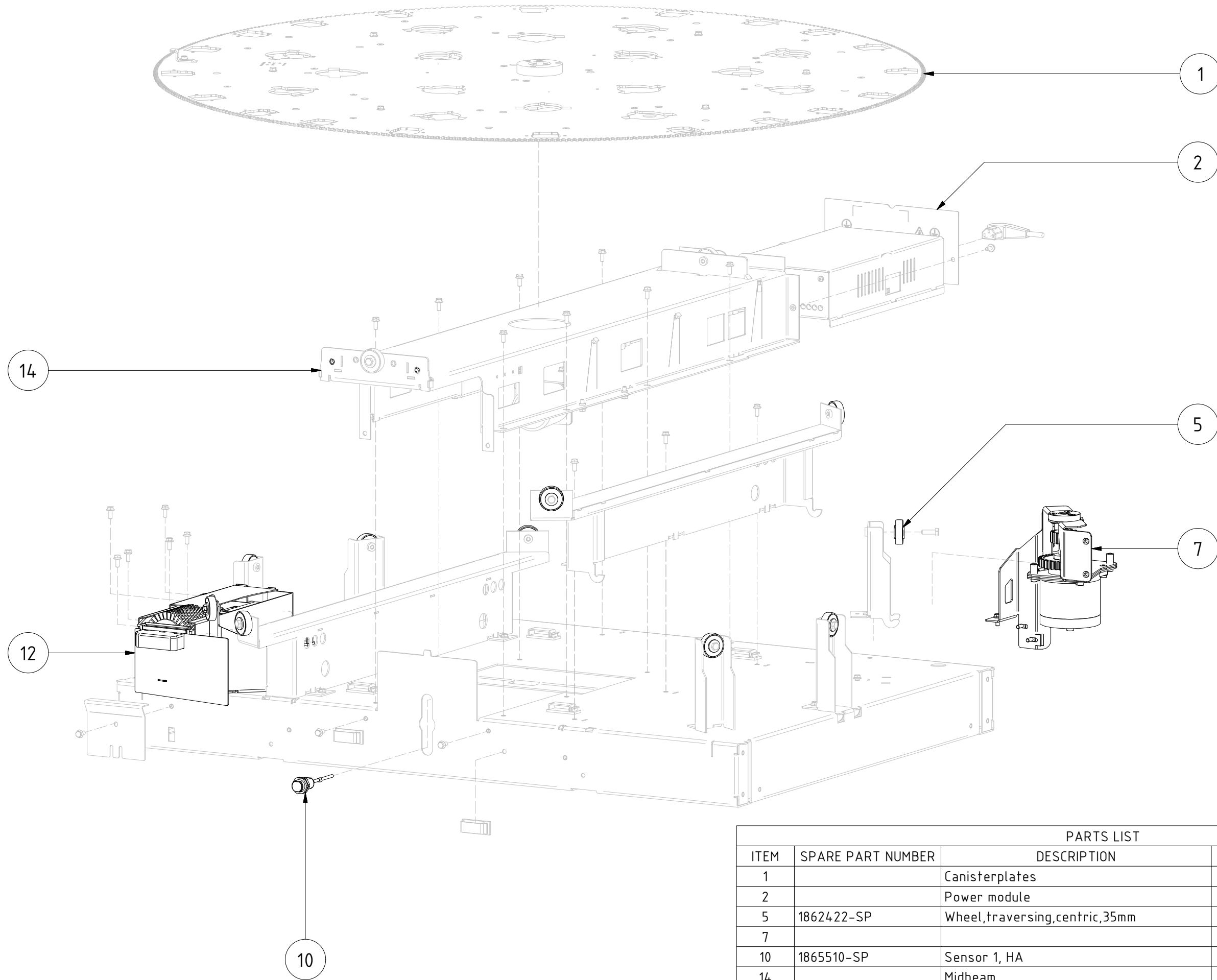
Emergency switch



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
2	1817356-SP	EM-switch,assembly	UL approved models only
2	1864937-SP	Emergency,switch,complete	Part of cable harness 1865743
3	1812528-SP	Switch,D2D 1100	Part of cable harness 1865743

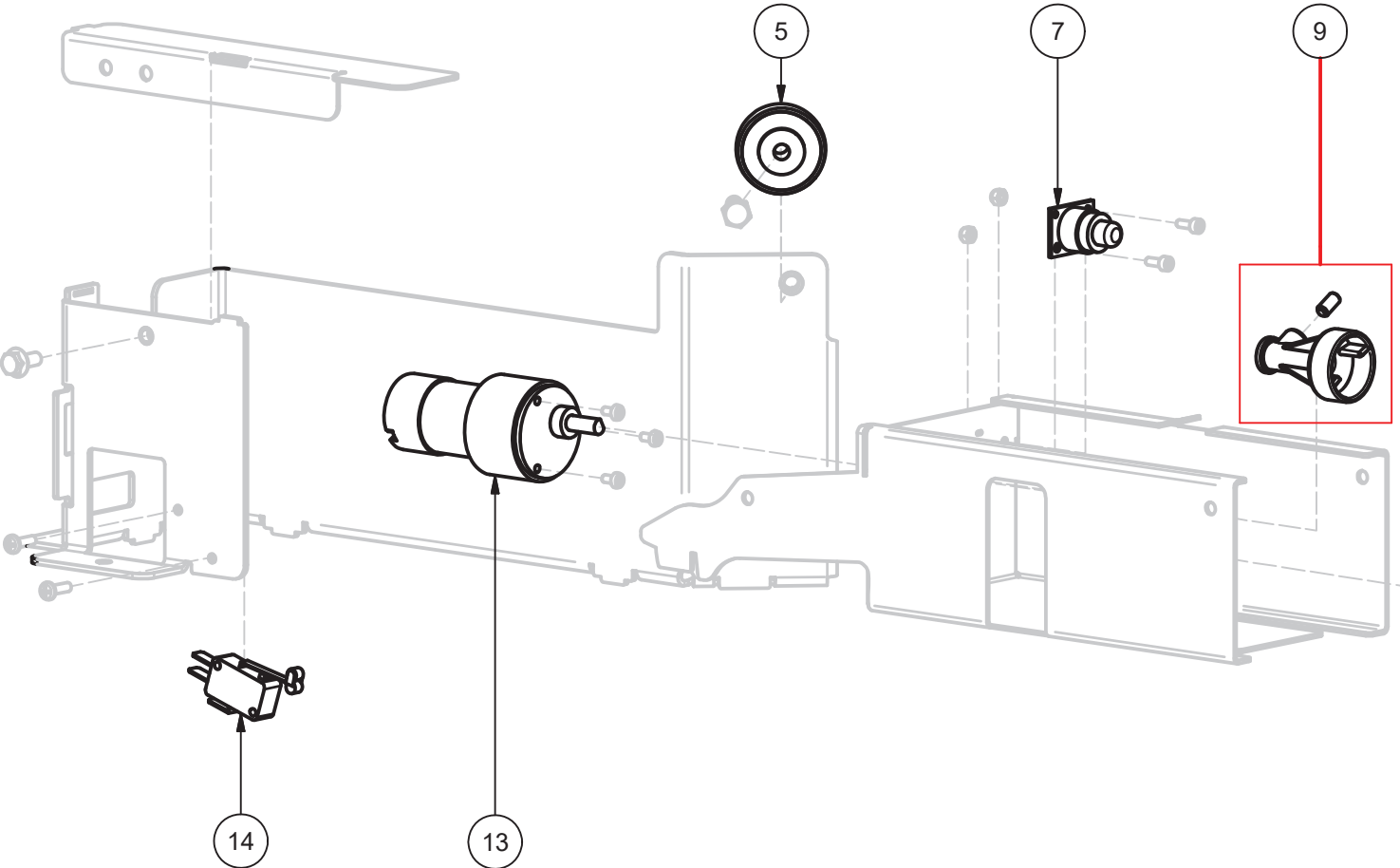
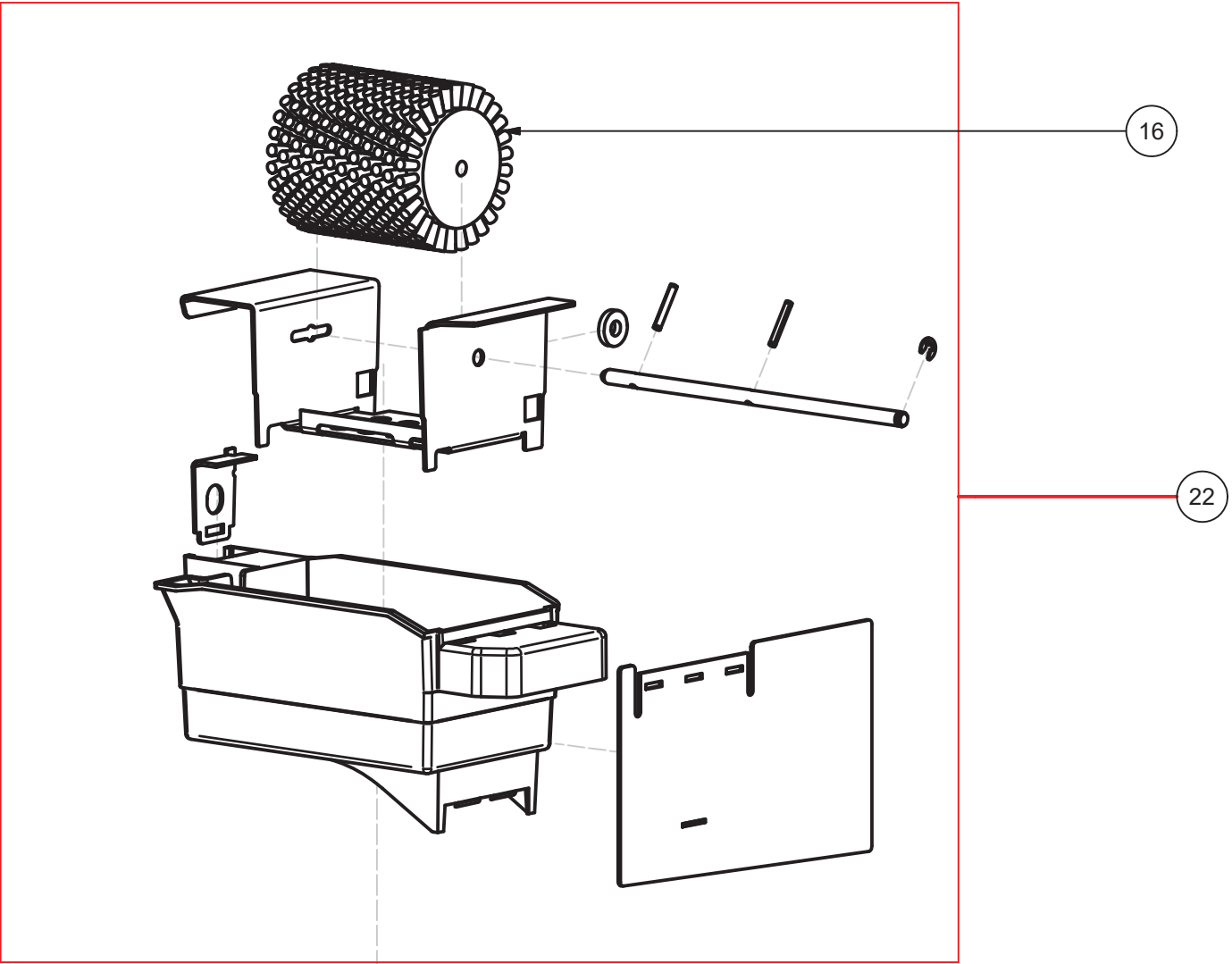
7330

Sub frame



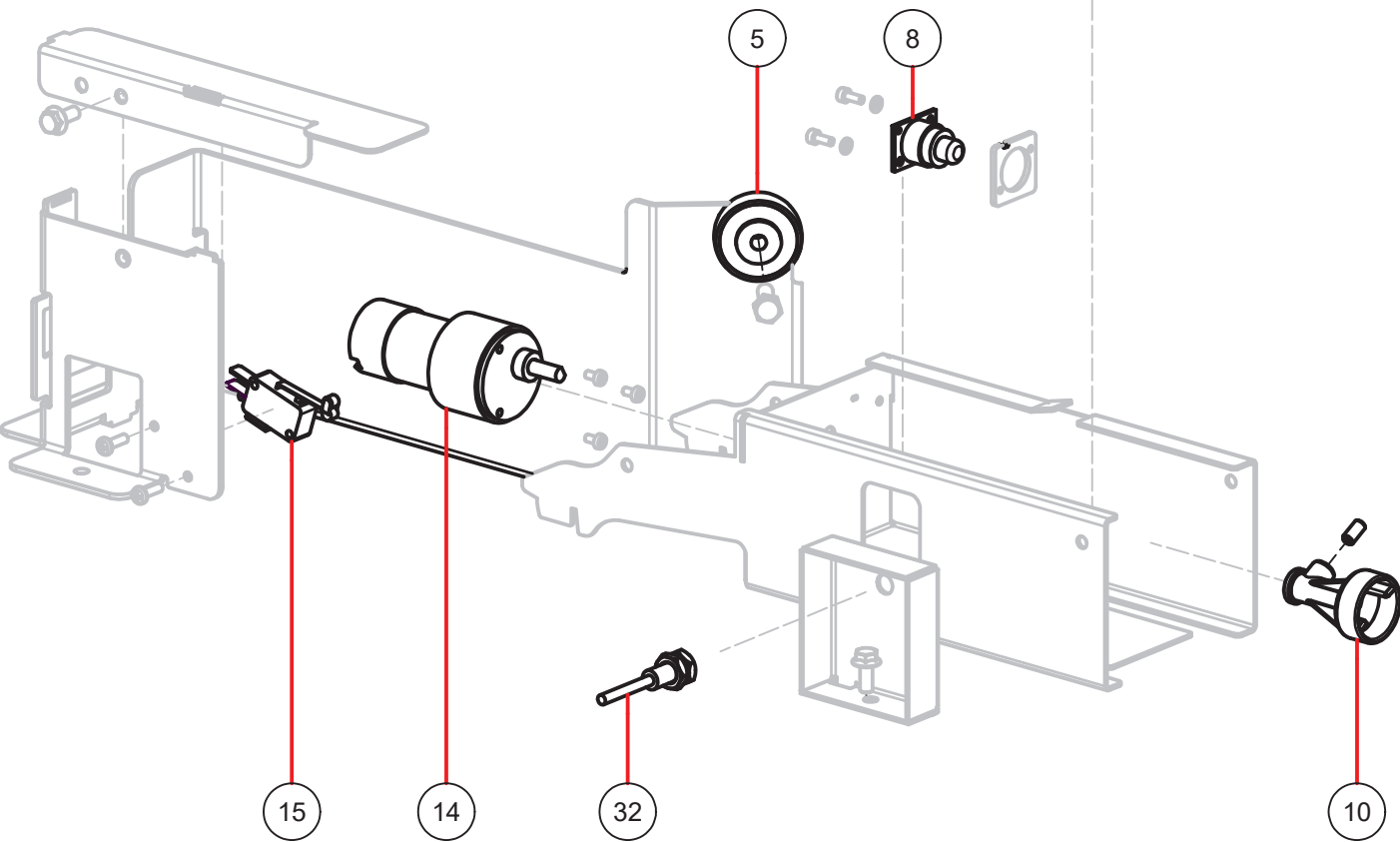
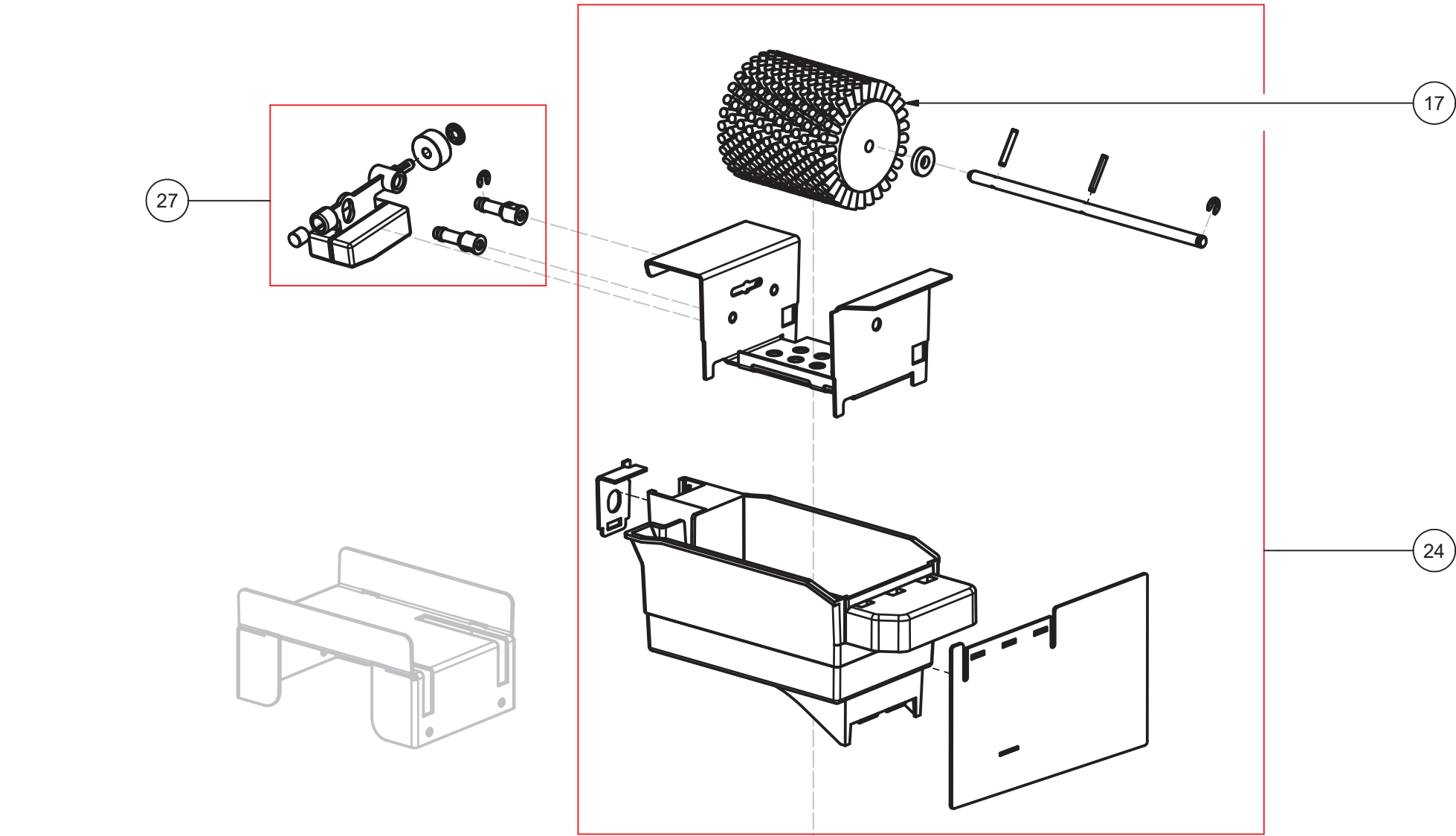
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1		Canisterplates	Page 7335
2		Power module	Page 7234-A
5	1862422-SP	Wheel, traversing, centric, 35mm	
7			
10	1865510-SP	Sensor 1, HA	
14		Midbeam	Page 7333
12		Brush	Page 7331-B, for sample brush see Page 7377

7331-A Brush



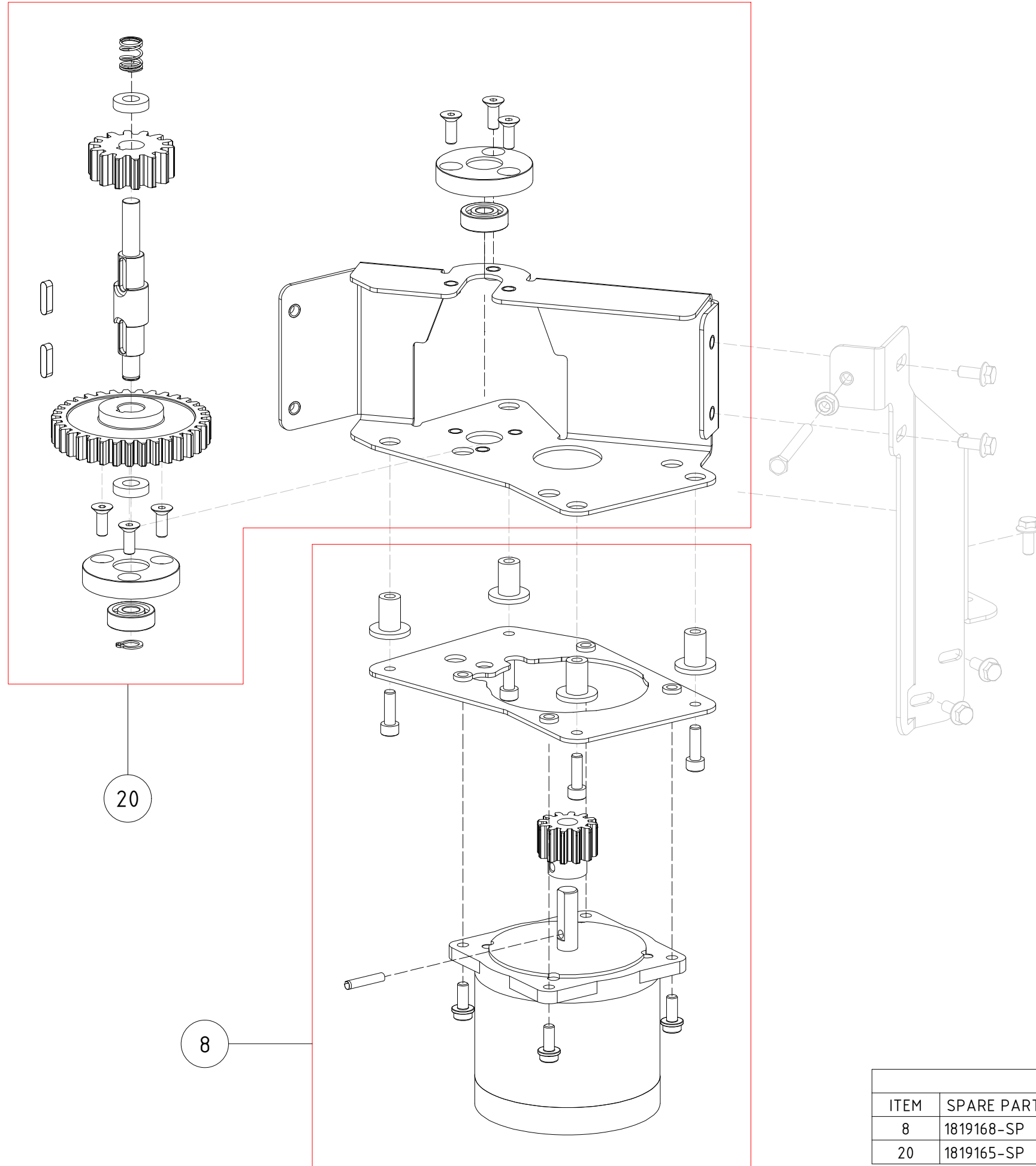
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
5	1862422-SP	Wheel, traversing, centric, 35mm	
7	1818541-SP	Latch, push-in/out	
9	1818735-SP	Coupling, fork, brush (set 1pc)	
13	1863862-SP	Motor micro, brush	
14	1160200-SP	Switch, micro, V-166-105(R)	
16	1814029-SP	Brush, D70x78.3	
22	1818932-SP	Brush, container, compl. (set 1pc)	

7331-B Brush



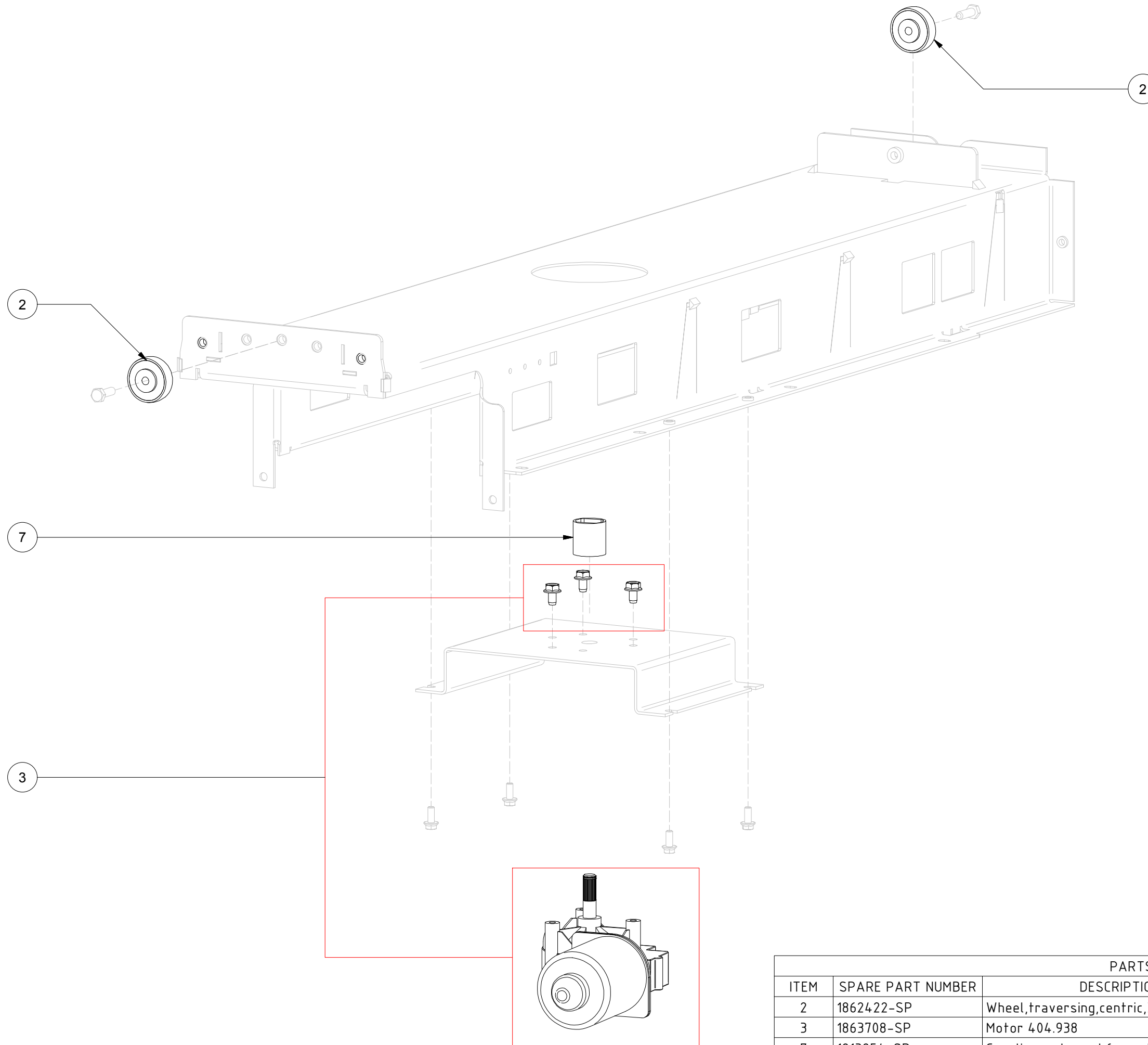
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
5	1862422-SP	Wheel, traversing, centric, 35mm	
8	1818541-SP	Latch, push-in/out	
10	1818735-SP	Coupling, fork, brush (set 1pc)	
14	1863862-SP	Motor micro, brush	
15	1160200-SP	Switch, micro, V-166-105(R)	
17	1814029-SP	Brush, D70x78.3	
24	1818932-SP	Brush, container, compl. (set 1pc)	
27	1819292-SP	Float, level, brush	
32	1865512-SP	Sensor 9, Brush monitor	

7332 Table drive motor unit



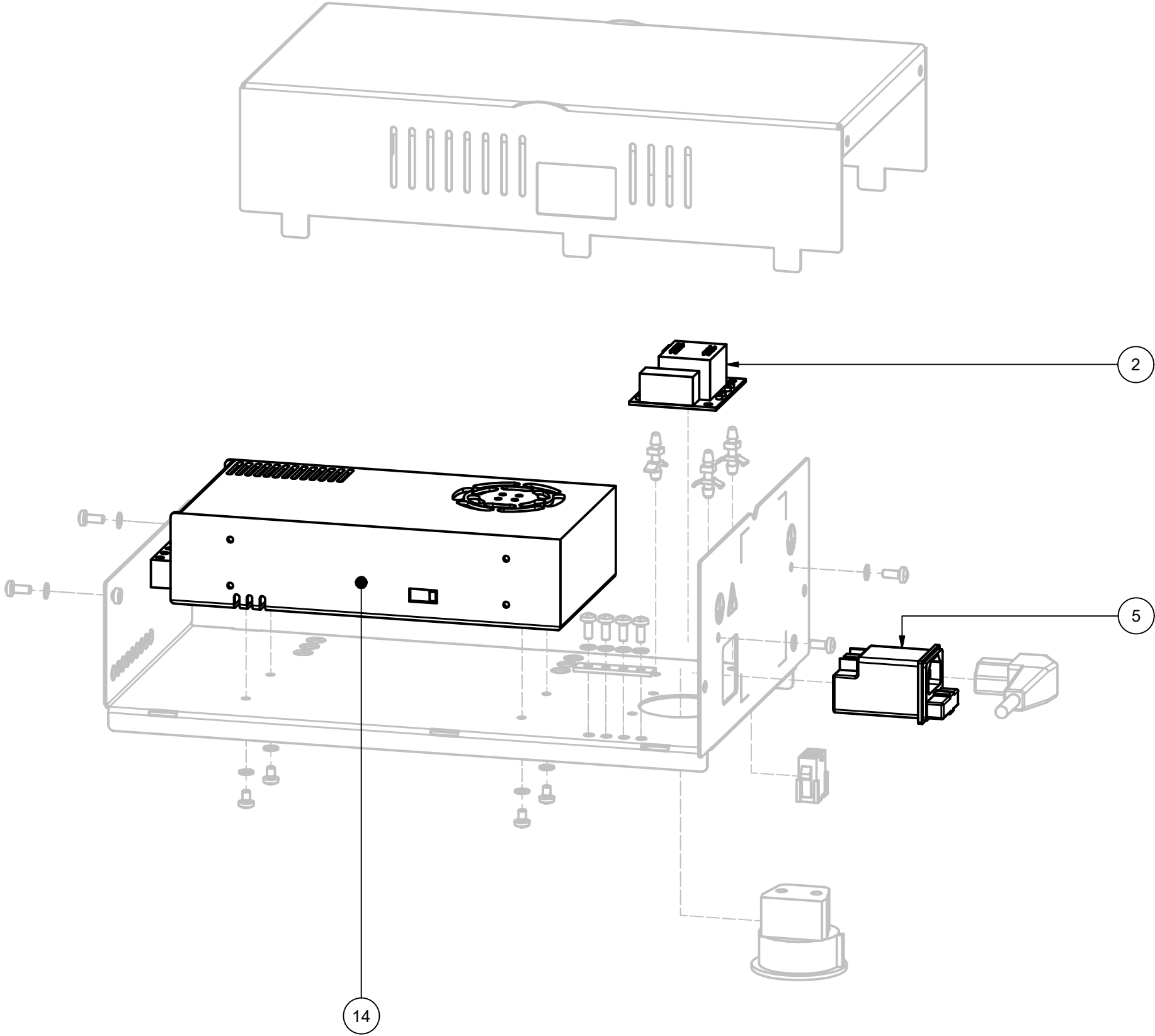
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
8	1819168-SP	Stepmotor,table drive,unit	
20	1819165-SP	Gear unit,table drive	

7333 Mid beam



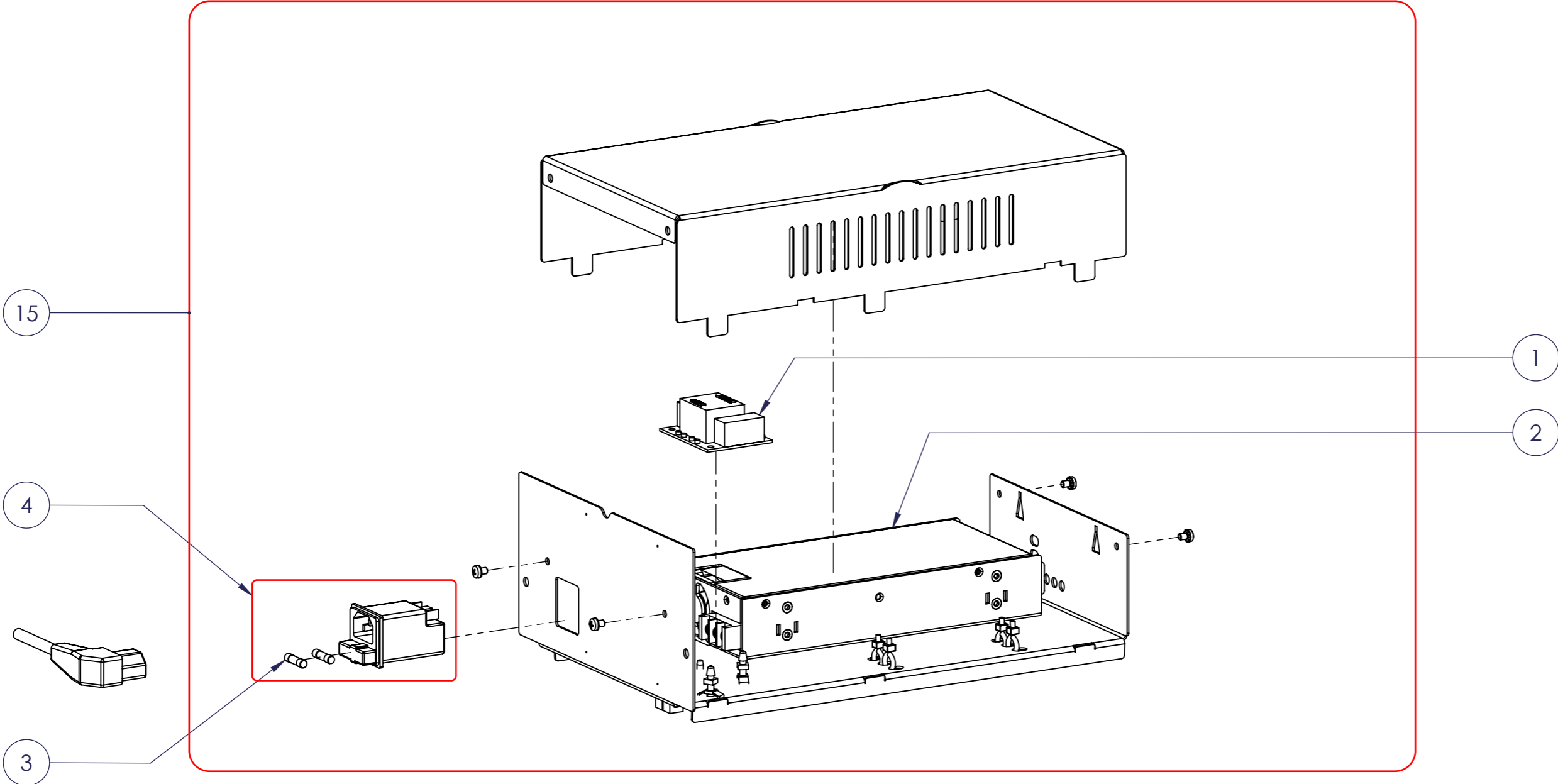
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
2	1862422-SP	Wheel, traversing, centric, 35mm	
3	1863708-SP	Motor 404.938	
7	1813254-SP	Coupling, motor, subframe, HA	

7334-A Power module 1818222-SP



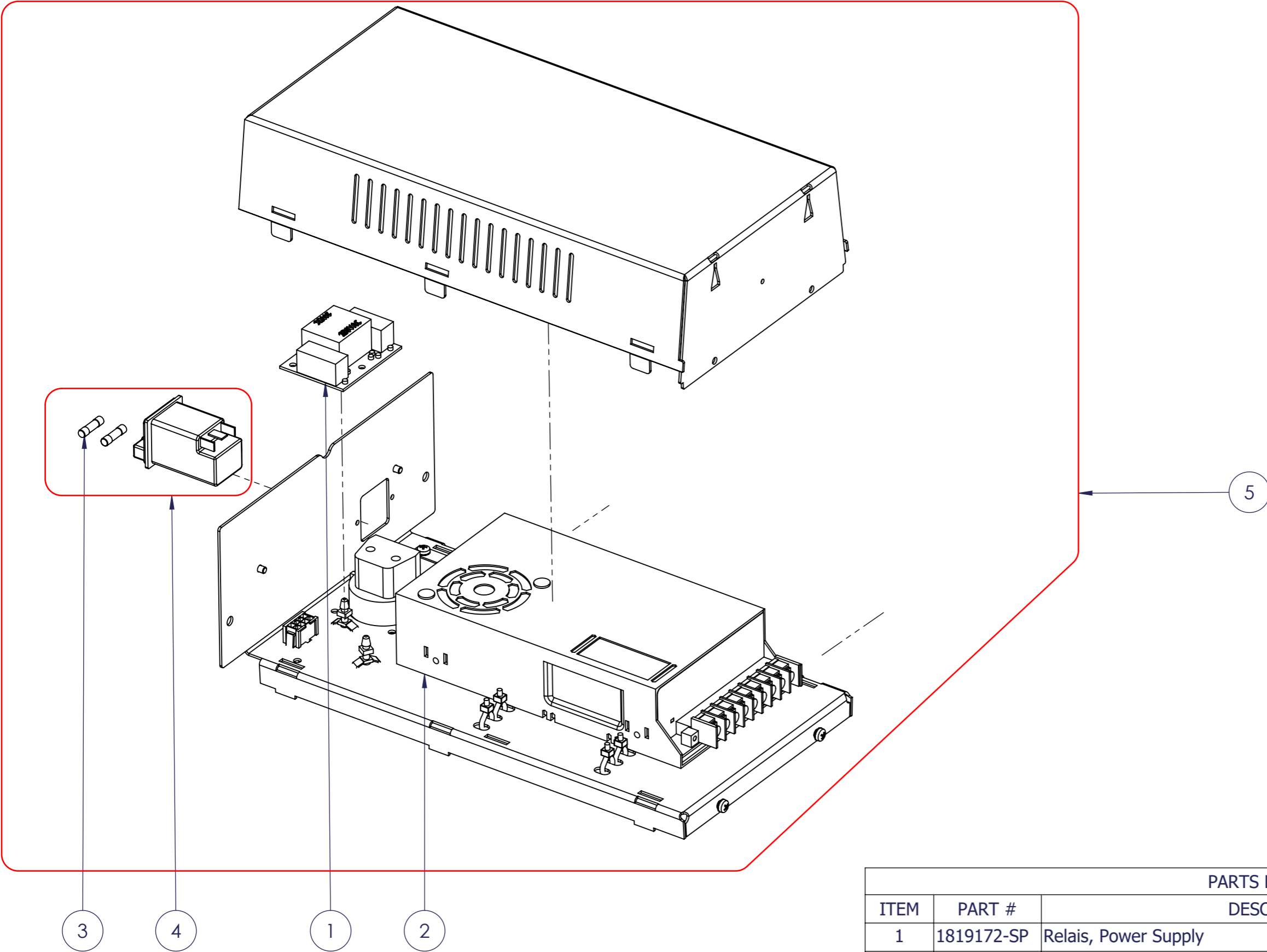
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
2	1819172-SP	Relais, Power Supply	
5	1818326-SP	Netentry with filter	
14	1819171-SP	Power supply,48VDC	

7334-B UL HAxx Power module 1820083
UL approved models only



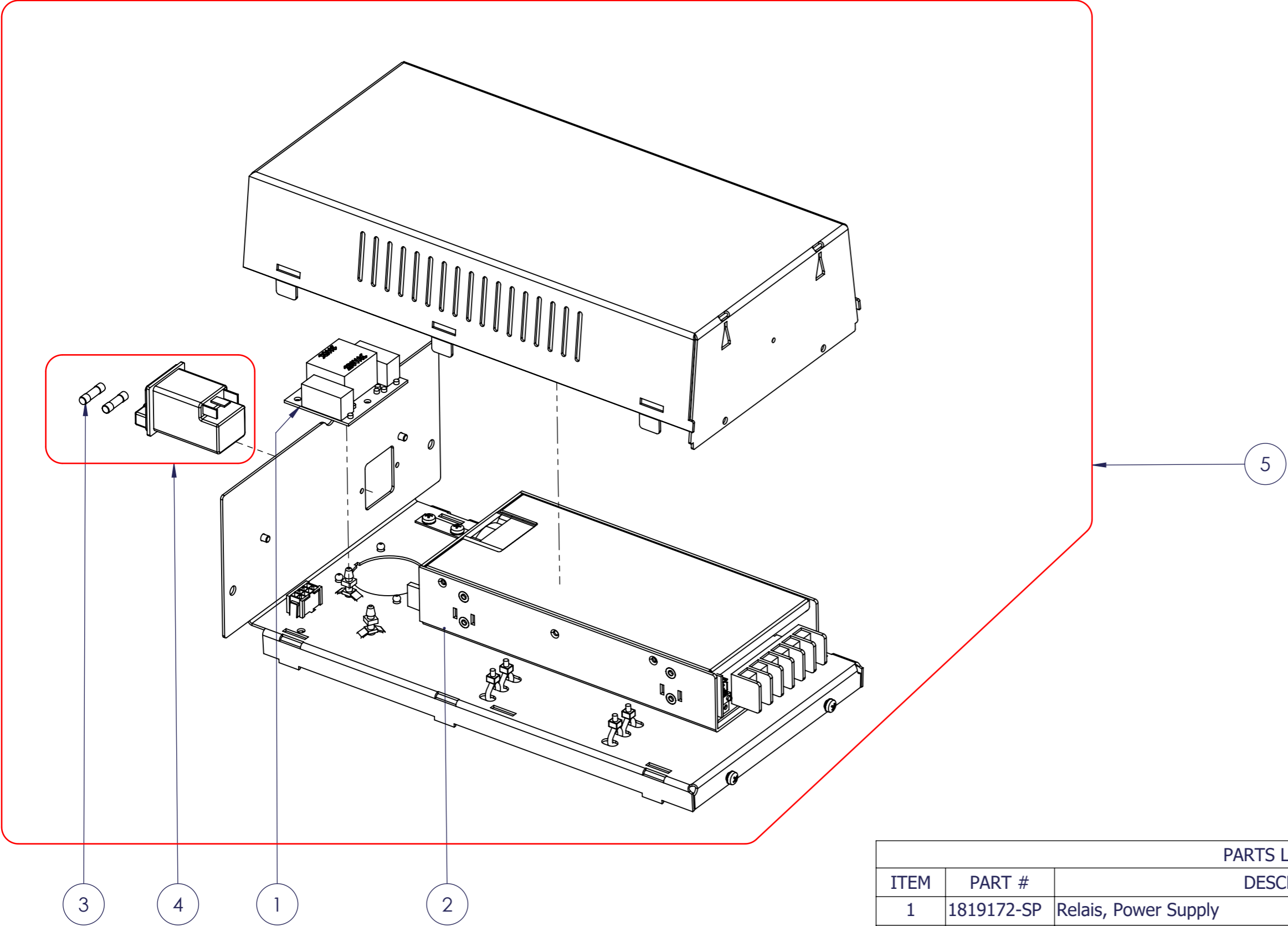
SPARE PARTS LIST			
ITEM	PART #	DESCRIPTION	REMARK
1	1819172-SP	Relais, Power Supply	
2	1865758-SP	Power supply MPS-450-48	
3	1819050-SP	Fuse,5AT,250V(set 10pcs)	
4	1818326-SP	Netentry with filter	
15	1820083-SP	Power module	

7334-C HAxx Power module (1820013-SP) From 17-12-2020



PARTS LIST			
ITEM	PART #	DESCRIPTION	REMARK
1	1819172-SP	Relais, Power Supply	
2	1819171-SP	Power supply,48VDC	
3	1819050-SP	Fuse,5AT,250V(set 10pcs)	
4	1818326-SP	Netentry with filter	
5	1820013-SP	Power module	

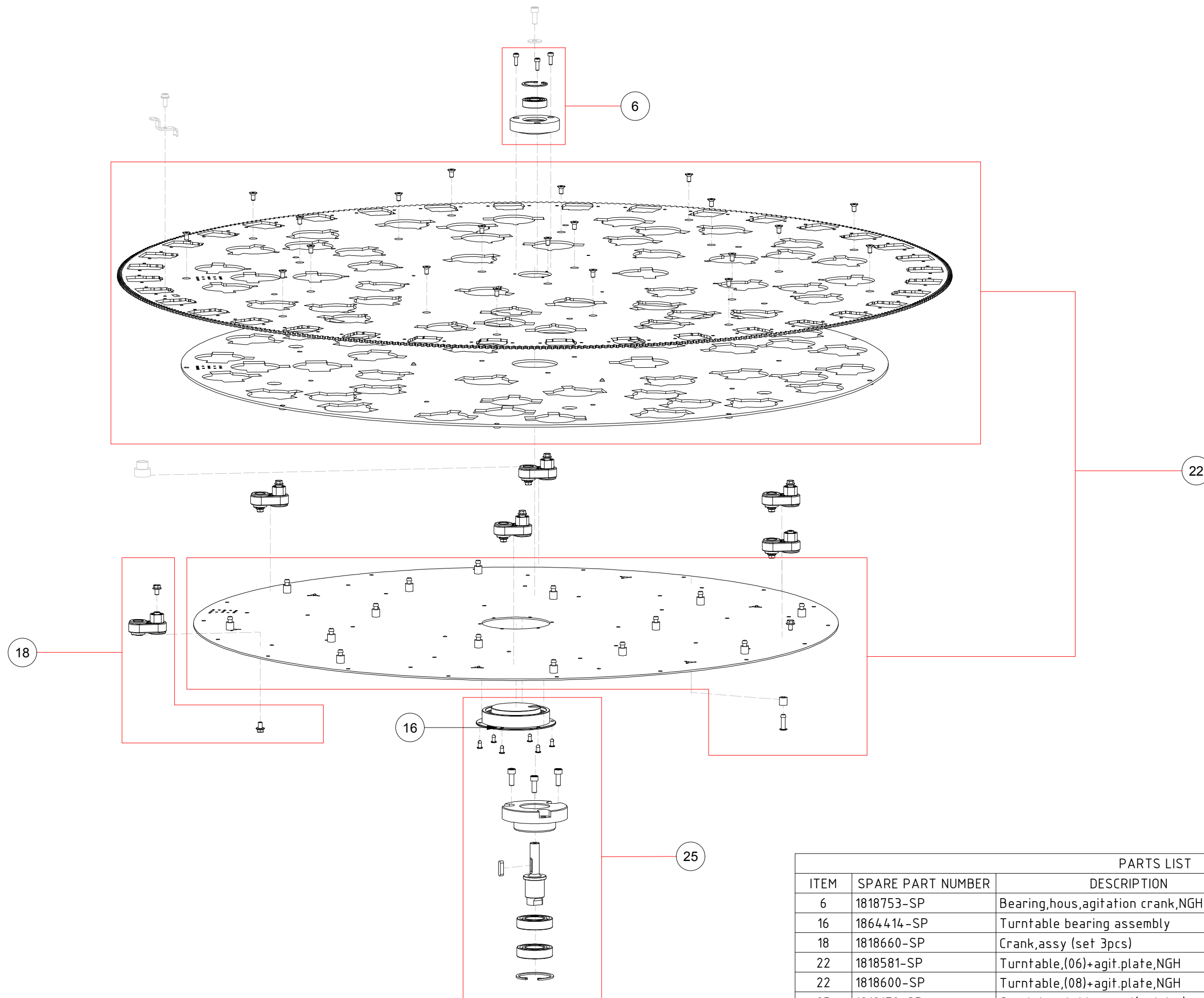
7334-D UL HAxx Power module (1820083) From 17-12-2020
UL approved models only



PARTS LIST			
ITEM	PART #	DESCRIPTION	REMARK
1	1819172-SP	Relais, Power Supply	
2	1865758-SP	Power supply MPS-450-48	
3	1819050-SP	Fuse,5AT,250V(set 10pcs)	
4	1818326-SP	Netentry with filter	
5	1820083-SP	Power module	

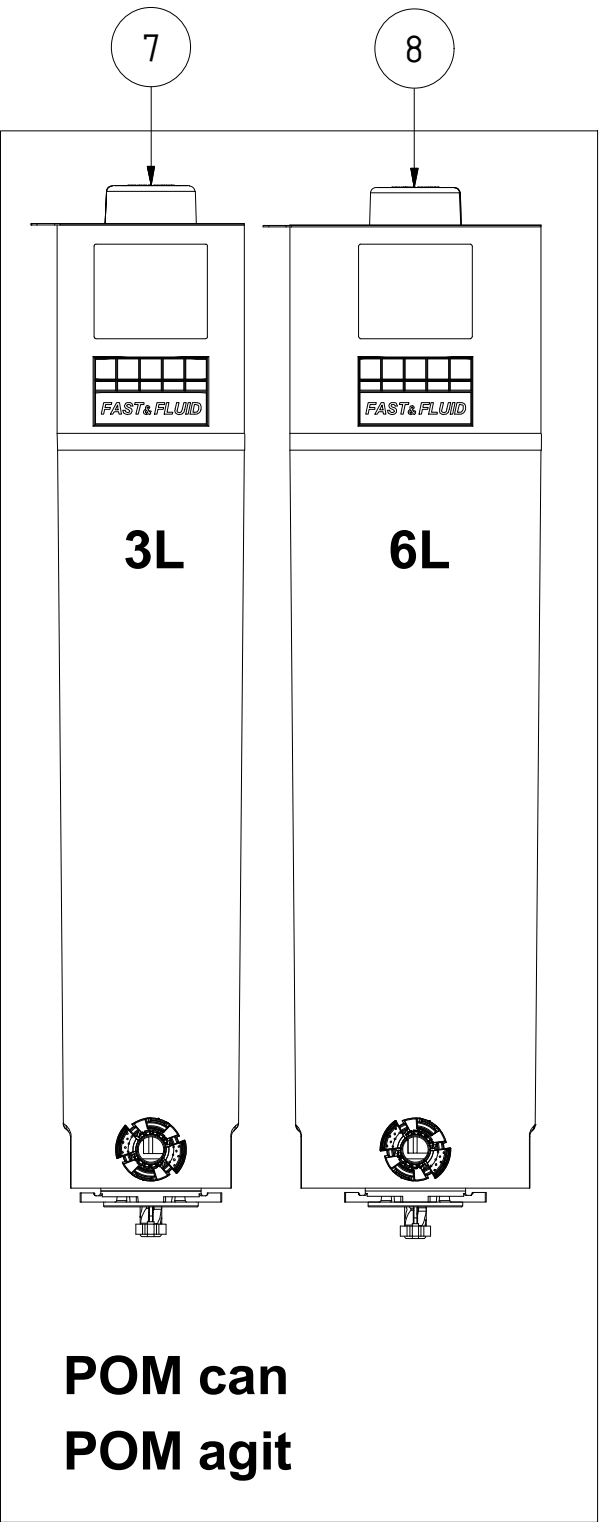
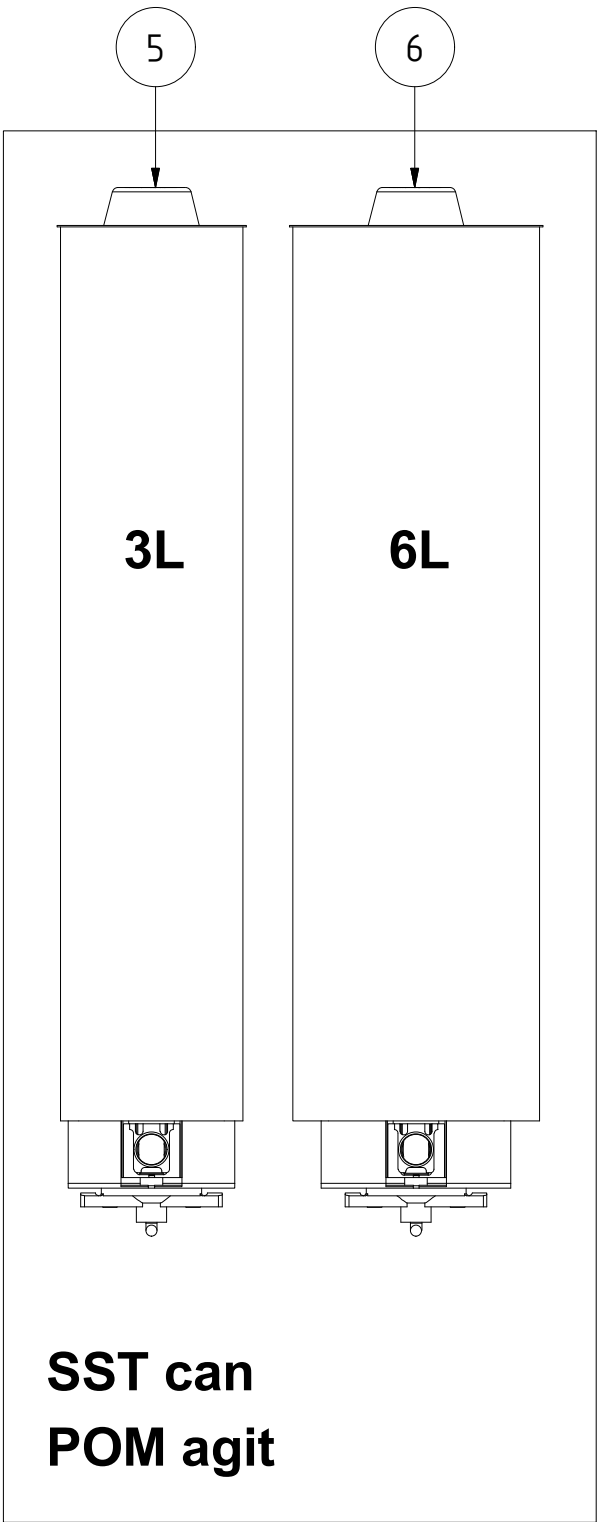
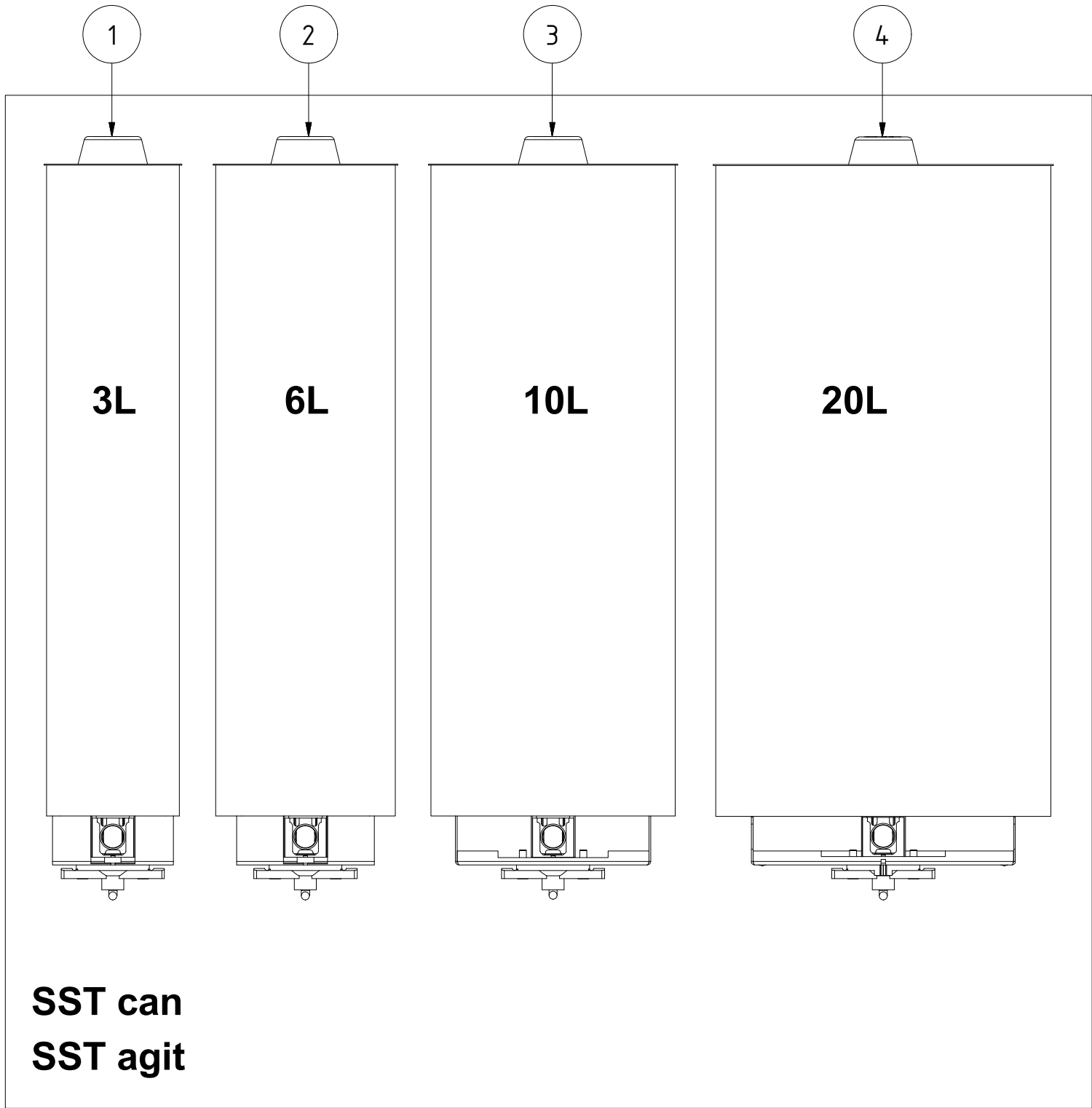
7335

Canister plates



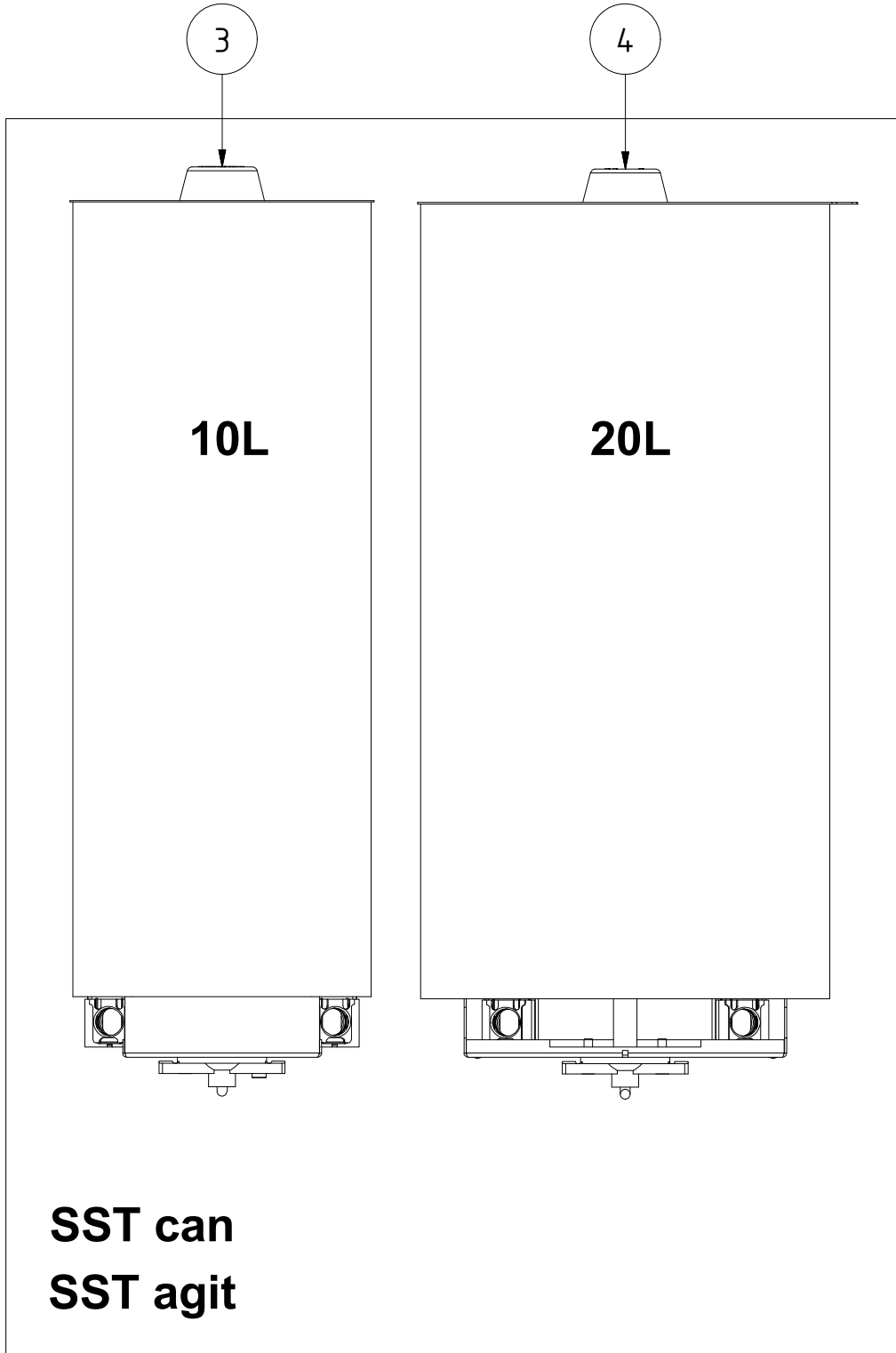
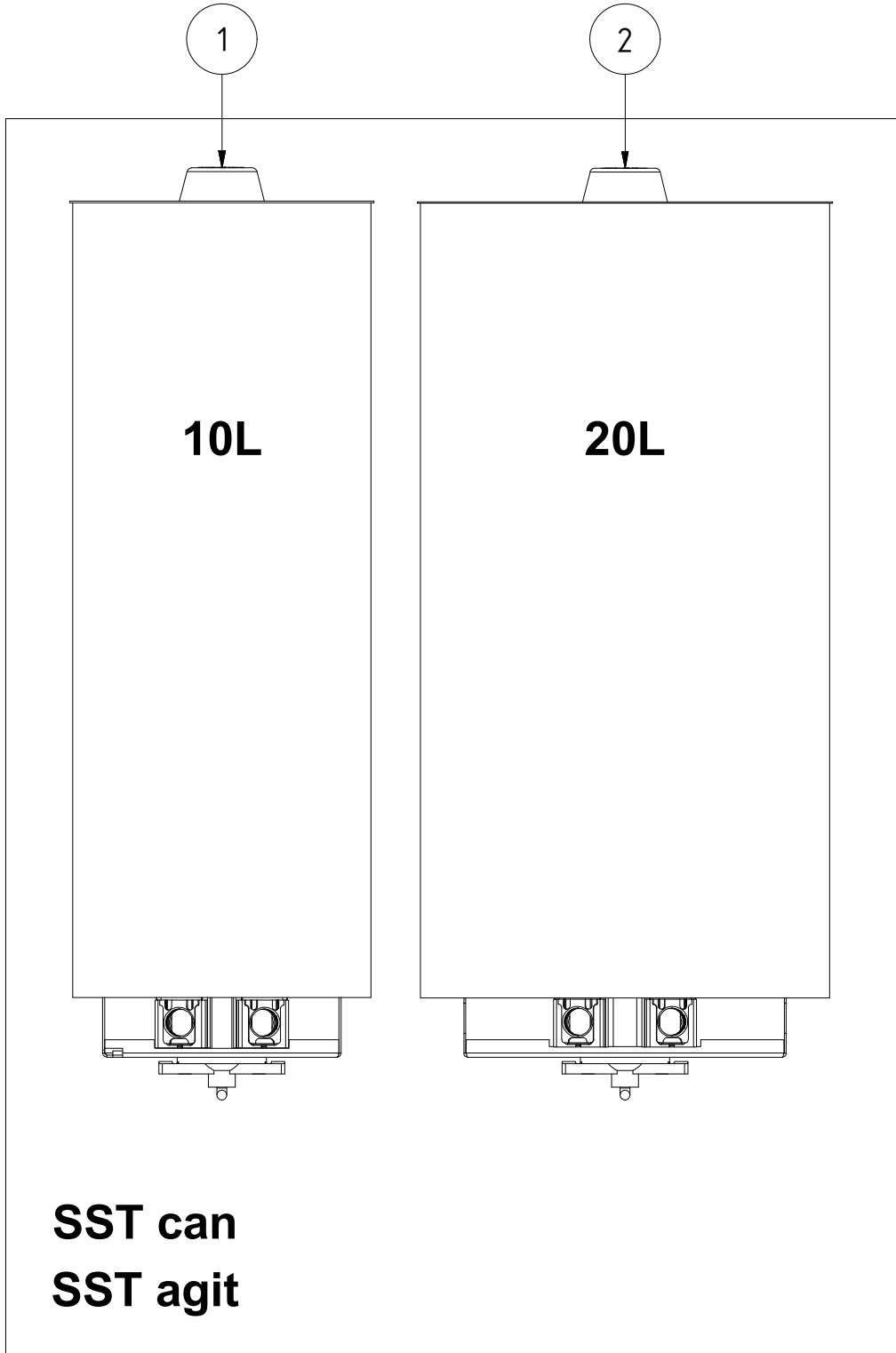
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
6	1818753-SP	Bearing,hous,agitation crank,NGH	
16	1864414-SP	Turntable bearing assembly	
18	1818660-SP	Crank,assy (set 3pcs)	
22	1818581-SP	Turntable,(06)+agit.plate,NGH	
22	1818600-SP	Turntable,(08)+agit.plate,NGH	
25	1819170-SP	Crank,turntable,compl(set 1pc)	

7340-1/2 Canisters



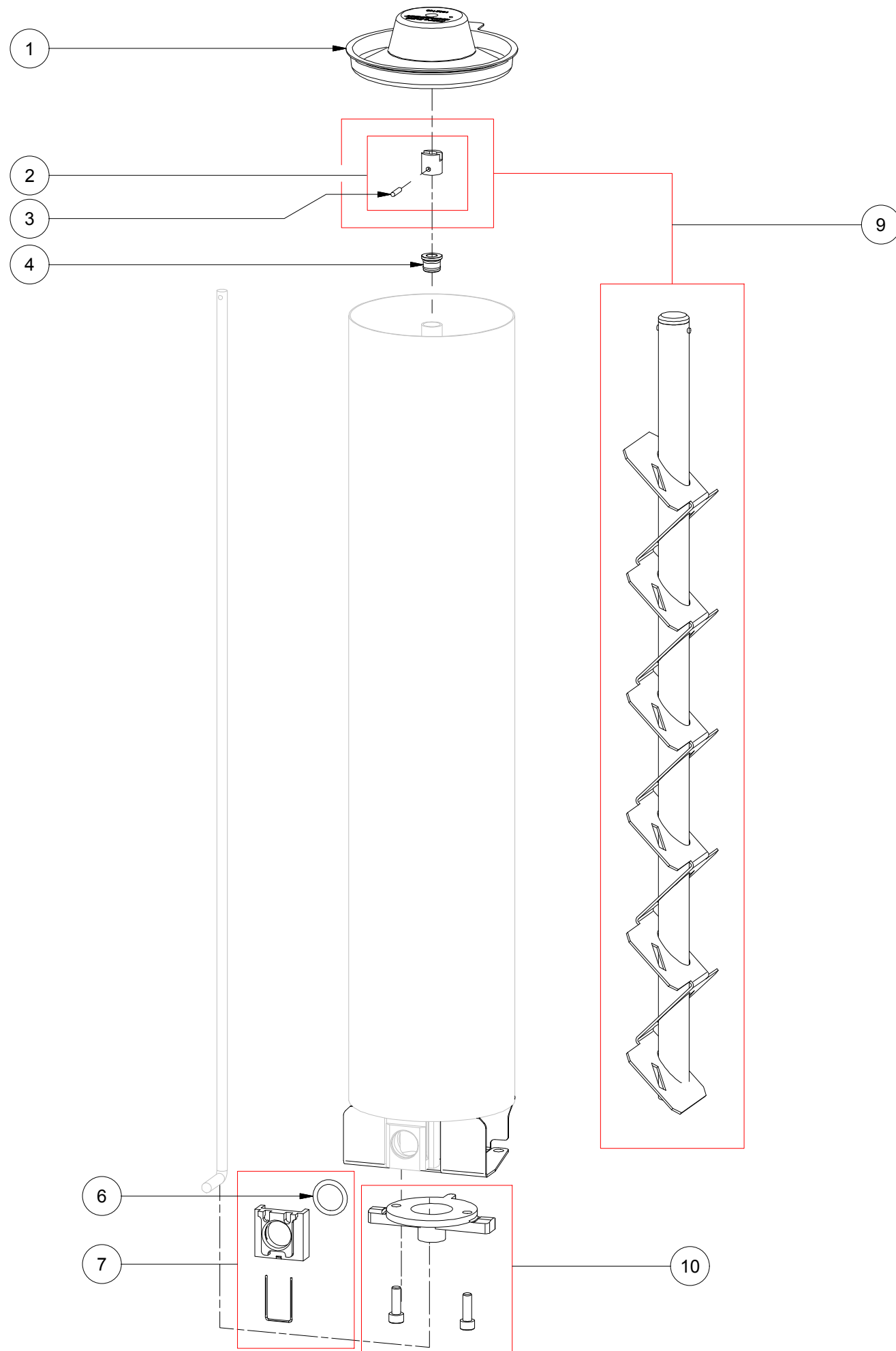
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1863215-SP	3L,SST can,std,1ex,SST agit	Page 7341
2	1863216-SP	6L,SST can,std,1ex,SST agit	Page 7342
3	1810599-SP	10L,SST can,std,1ex,SST agit	Page 7343
4	1810603-SP	20L,SST can,std,1ex,SST agit	Page 7344
5	1809888-SP	3L,SST can,std,1ex,POM agit	Page 7345
6	1810596-SP	6L,SST can,std,1ex,POM agit	Page 7346
7	1865011-SP	3L,POM can,std,1ex,POM agit	Page 7347
8	1865012-SP	6L,POM can,std,1ex,POM agit	Page 7348

7340-2/2 Canisters



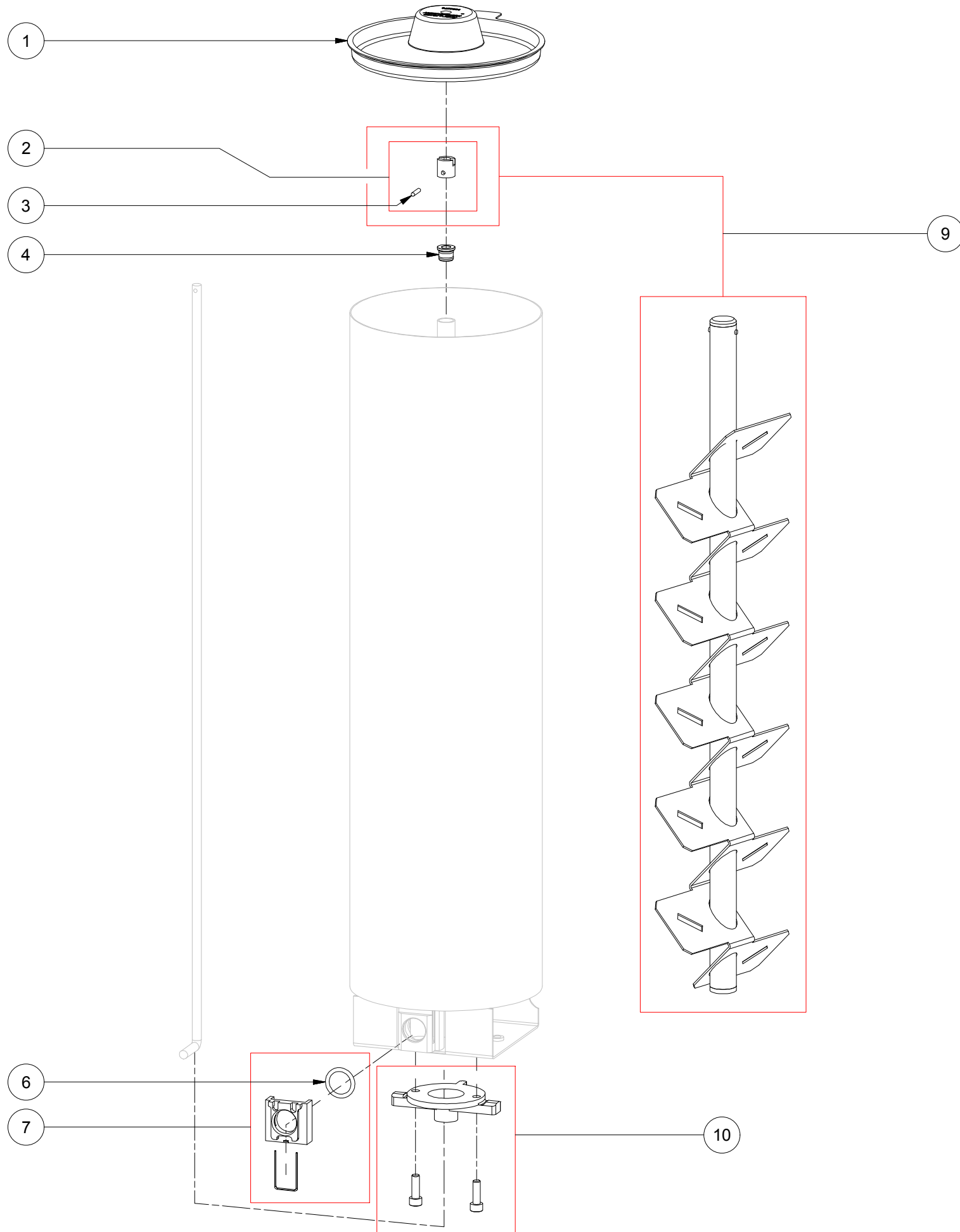
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1810602-SP	10L,SST can,inn,2ex,SST agit	Page 7349
2	1810761-SP	20L, SST can,inn,2ex,SST agit	Page 7350
3	1813689-SP	Canister,10L,2ex,cent,HA1.XX	Page 7351
4	1810763-SP	Canister,assy20L,2ex,mid,HA600	Page 7352

7341 3L,SST can,1ex,SST agit 1863215-SP



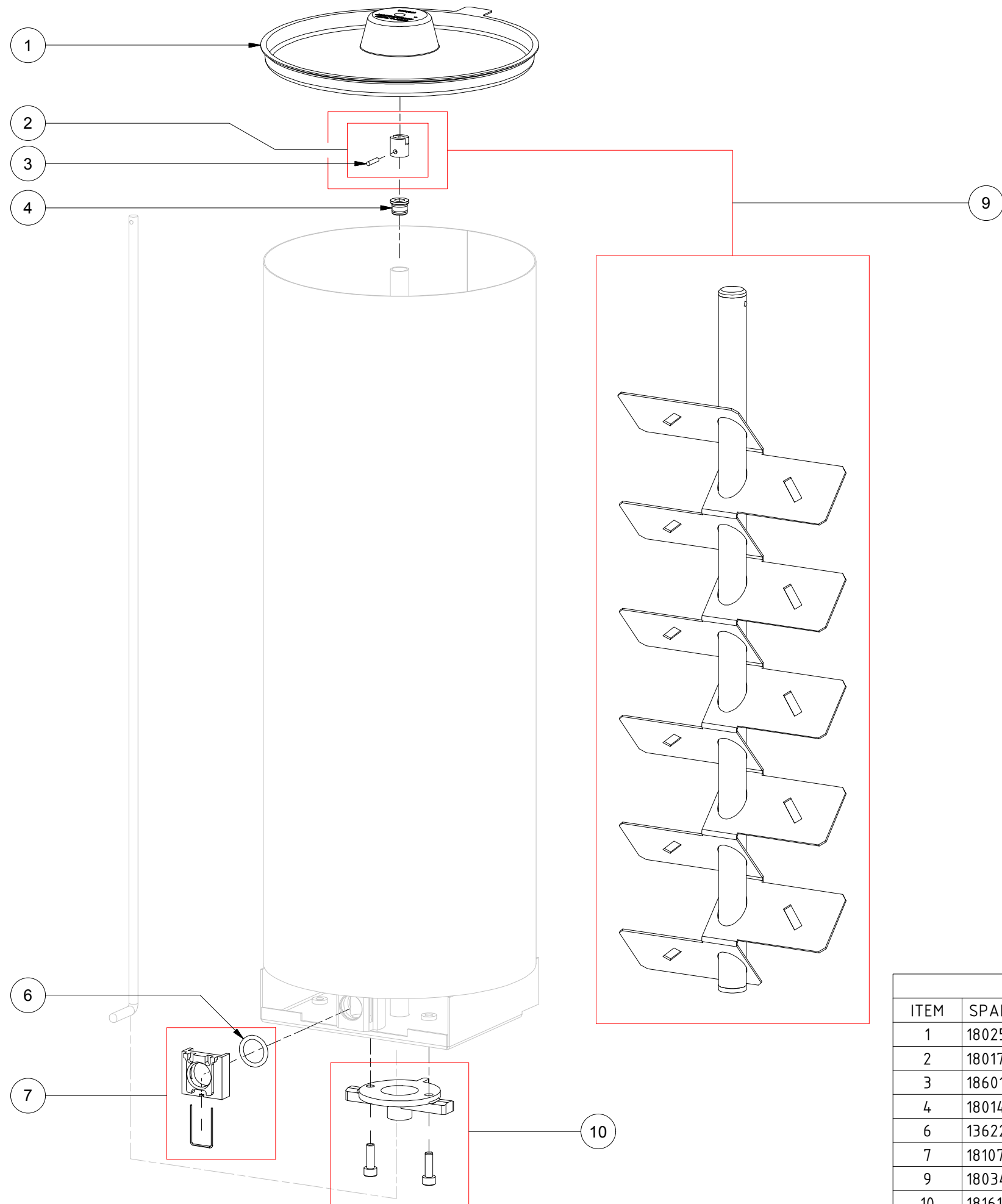
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1802503-SP	Lid POM,3L can,5pcs	
2	1801798-SP	Bush,center,agit.shaft,HA	
3	1860110-SP	Pin,spirol,f2.5x12,Sst,25pcs.	
4	1801447-SP	Bush,shaft-pipe,set,HA,10pcs	
6	1362230-SP	O-ring,viton,15.88x2.62,10pcs	
7	1810767-SP	Clip,spring,tube,(Set 5pcs)	
9	1803439-SP	Agit SST, 3L SST can	
10	1816106-SP	Cap,bottom,sst can with screws	
18			
19			

7342 6L,SST can,1ex,SST agit 1863216-SP



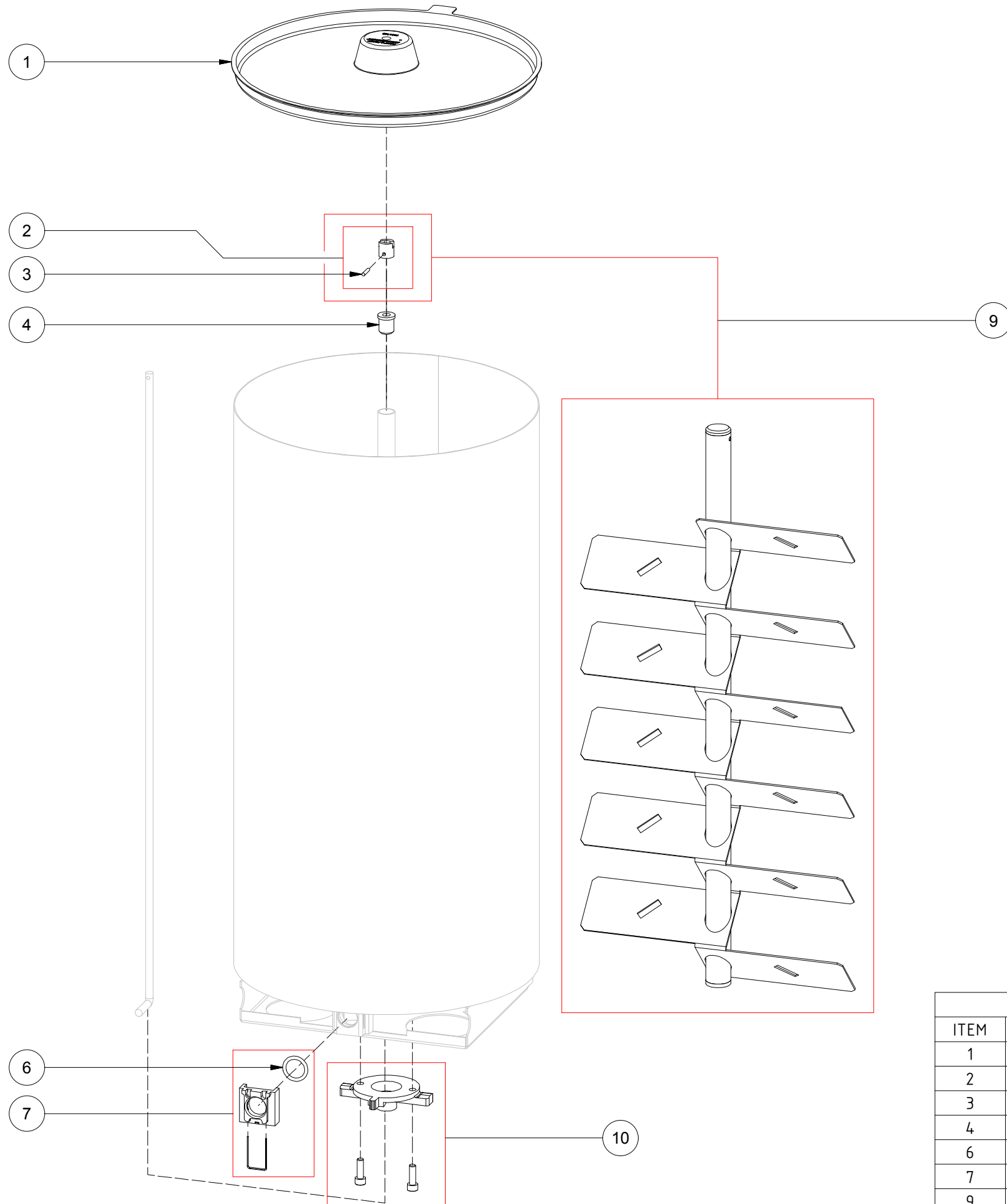
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1802504-SP	Lid POM,4.5/6L can,5pcs	
2	1801798-SP	Bush,center,agit.shaft,HA	
3	1860110-SP	Pin,spirol,f2.5x12,Sst,25pcs.	
4	1801447-SP	Bush,shaft-pipe,set,HA,10pcs	
6	1362230-SP	O-ring,viton,15.88x2.62,10pcs	
7	1810767-SP	Clip,spring,tube,(Set 5pcs)	
9	1803441-SP	Agit SST, 6L SST can	
10	1816106-SP	Cap,bottom,sst can with screws	

7343 10L,SST can,1ex,SST agit 1810599-SP



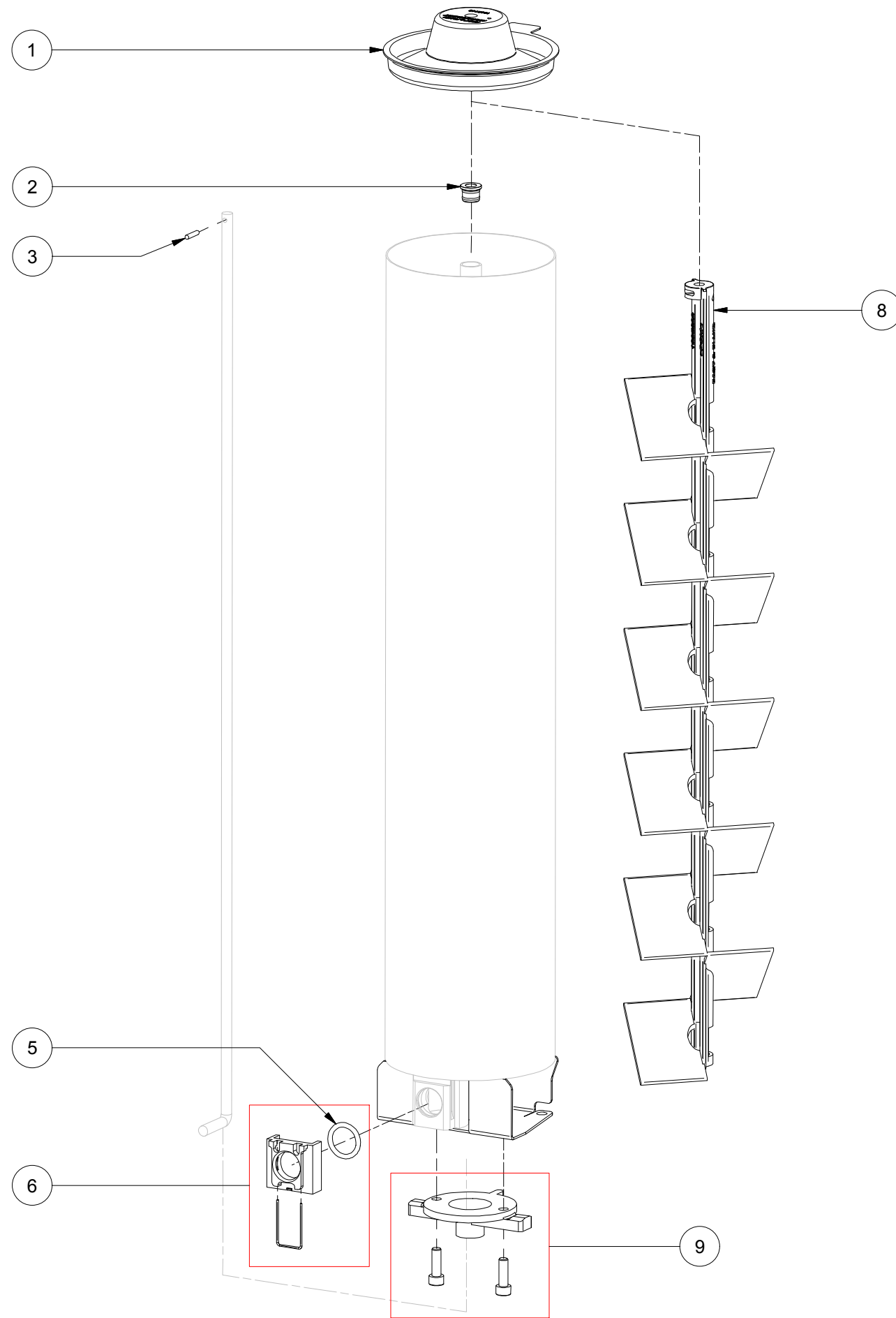
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1802505-SP	Lid POM,10L can,5pcs	
2	1801798-SP	Bush,center,agit.shaft,HA	
3	1860110-SP	Pin,spirol,f2.5x12,Sst,25pcs.	
4	1801447-SP	Bush,shaft-pipe,set,HA,10pcs	
6	1362230-SP	O-ring,viton,15.88x2.62,10pcs	
7	1810767-SP	Clip,spring,tube,(Set 5pcs)	
9	1803443-SP	Agit SST, 10L SST can	
10	1816106-SP	Cap,bottom,sst can with screws	

7344 20L,SST can,std,1ex,SST agit 1810603-SP



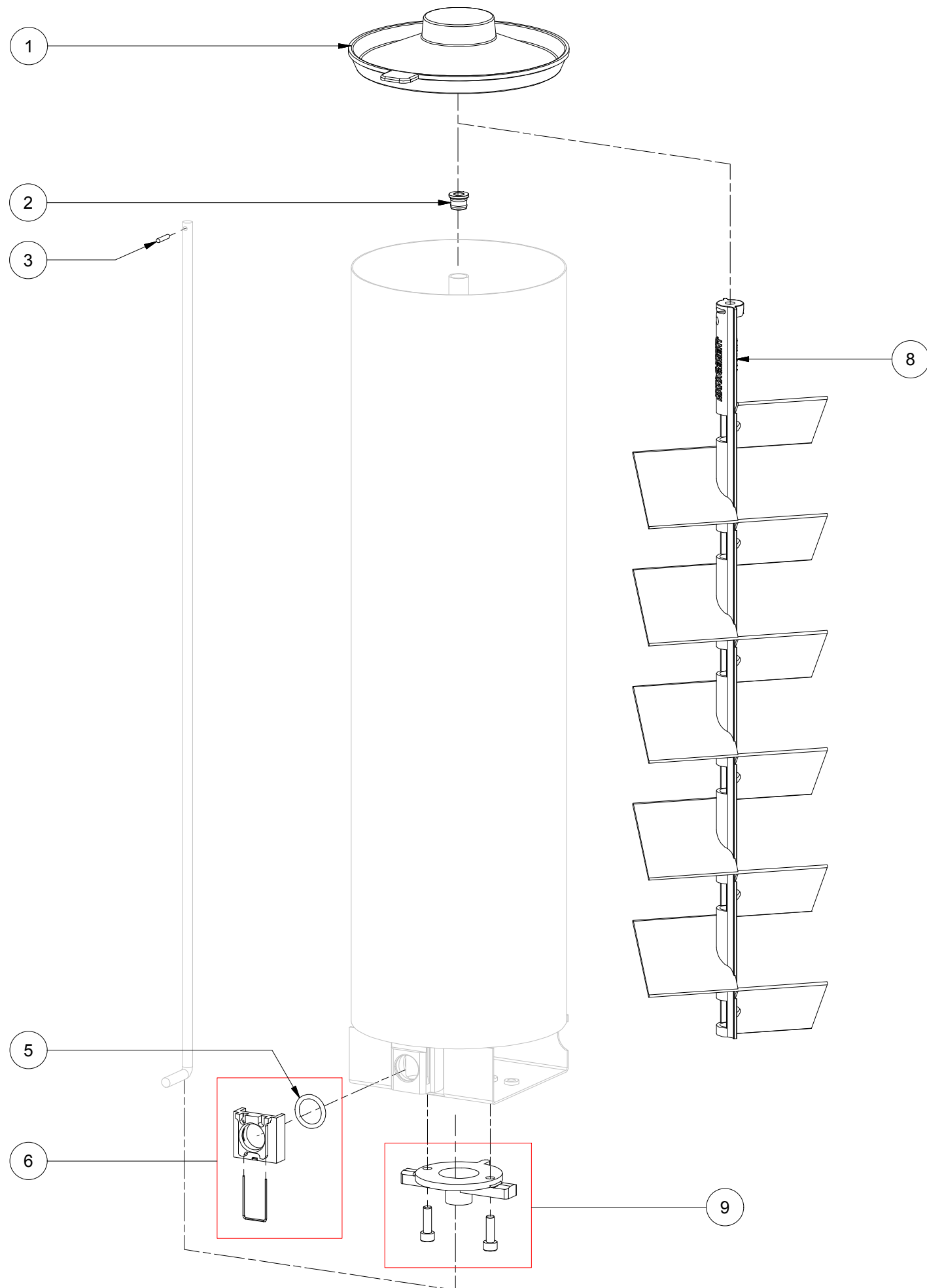
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1802506-SP	Lid POM,20L can,5pcs	
2	1801798-SP	Bush,center,agit.shaft,HA	
3	1860110-SP	Pin,spirol,f2.5x12,Sst,25pcs.	
4	1808353-SP	BUSH,6MM SHAFT,AGIT 20L,HAL	
6	1362230-SP	O-ring,viton,15.88x2.62,10pcs	
7	1810767-SP	Clip,spring,tube,(Set 5pcs)	
9	1804202-SP	Agit SST, 20L SST can	
10	1816106-SP	Cap,bottom,sst can with screws	

7345 3L,SST can,1ex,POM agit 1809888-SP



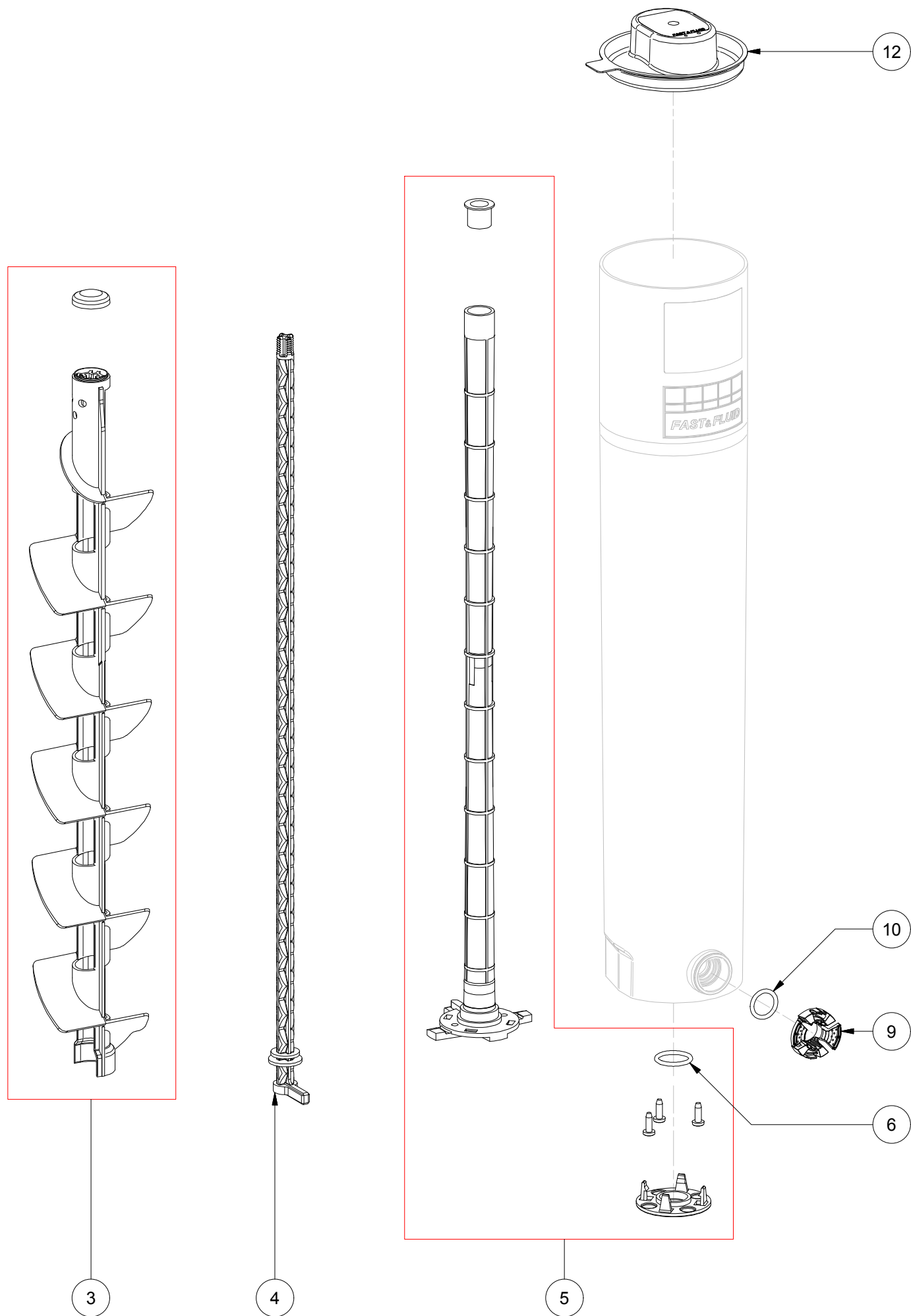
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1802503-SP	Lid POM,3L can,5pcs	
2	1801447-SP	Bush,shaft-pipe,set,HA,10pcs	
3	1860110-SP	Pin,spirol,f2.5x12,Sst,25pcs.	
5	1362230-SP	O-ring,viton,15.88x2.62,10pcs	
6	1810767-SP	Clip,spring,tube,(Set 5pcs)	
8	1860394-SP	Agit POM,3L Sst can,5pcs	
9	1816106-SP	Cap,bottom,sst can with screws	

7346 6L,SST can,1ex,POM agit 1810596-SP



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1802504-SP	Lid POM,4.5/6L can,5pcs	
2	1801447-SP	Bush,shaft-pipe,set,HA,10pcs	
3	1860110-SP	Pin,spirol,f2.5x12,Sst,25pcs.	
5	1362230-SP	O-ring,viton,15.88x2.62,10pcs	
6	1810767-SP	Clip,spring,tube,(Set 5pcs)	
8	1860395-SP	Agit POM,6L Sst can,5pcs	
9	1816106-SP	Cap,bottom,sst can with screws	

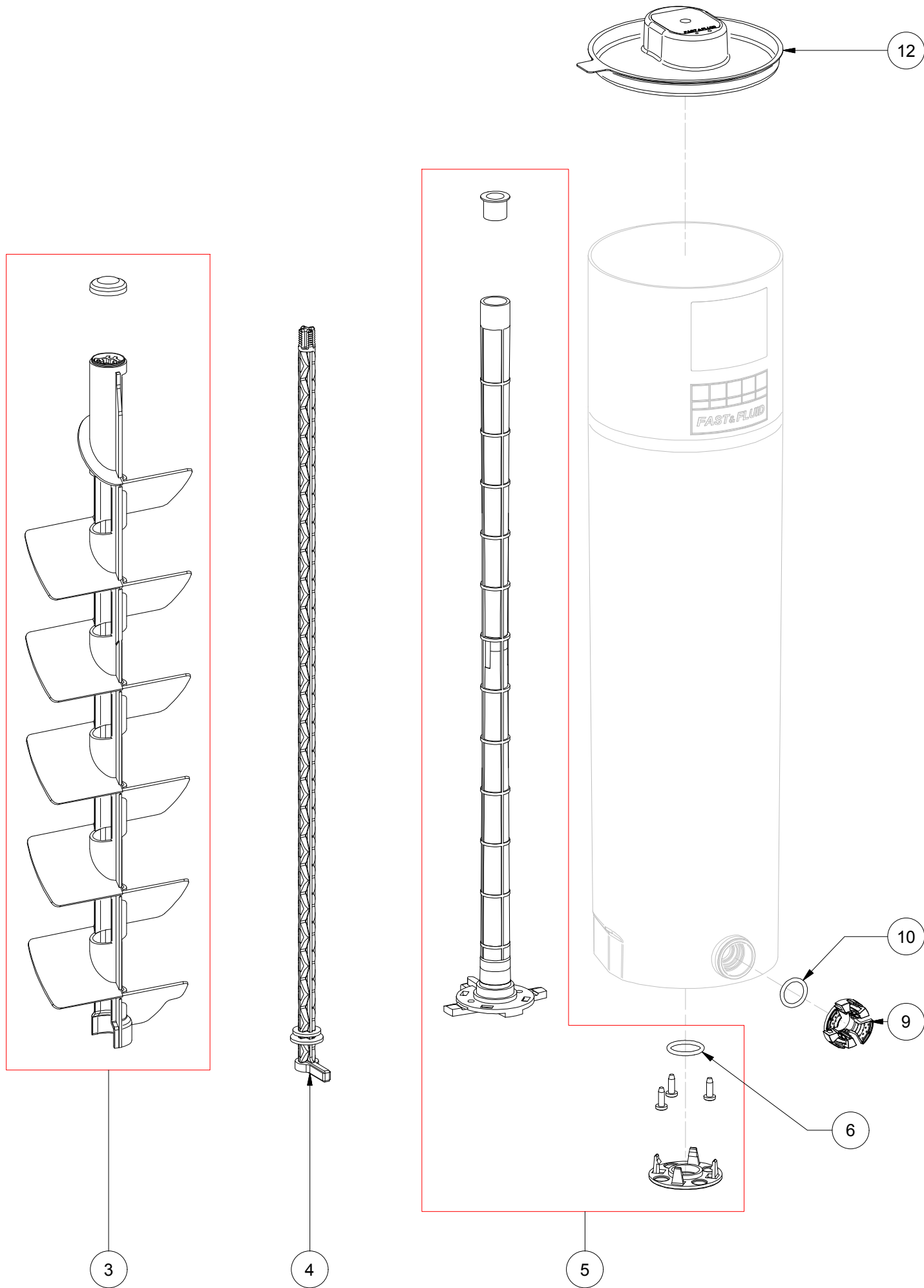
7347 3L,POM can,1ex,POM agit 1865011-SP



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
3	1817910-SP	Agitator,3L,POM,2014,5pcs	
4	1817917-SP	Shaft,canister,HA,5pcs	
5	1817427-SP	Inner tube,canister,kit	
6	1362231-SP	O-ring,cann.vit.20.29 set 10pc	
9	1817841-SP	Clip,pump,canister,HA,5pcs	
10	1362230-SP	O-ring,viton,15.88x2.62,10pcs	
12	1817422-SP	Lid POM,2.5/3L can,5pcs	

7348

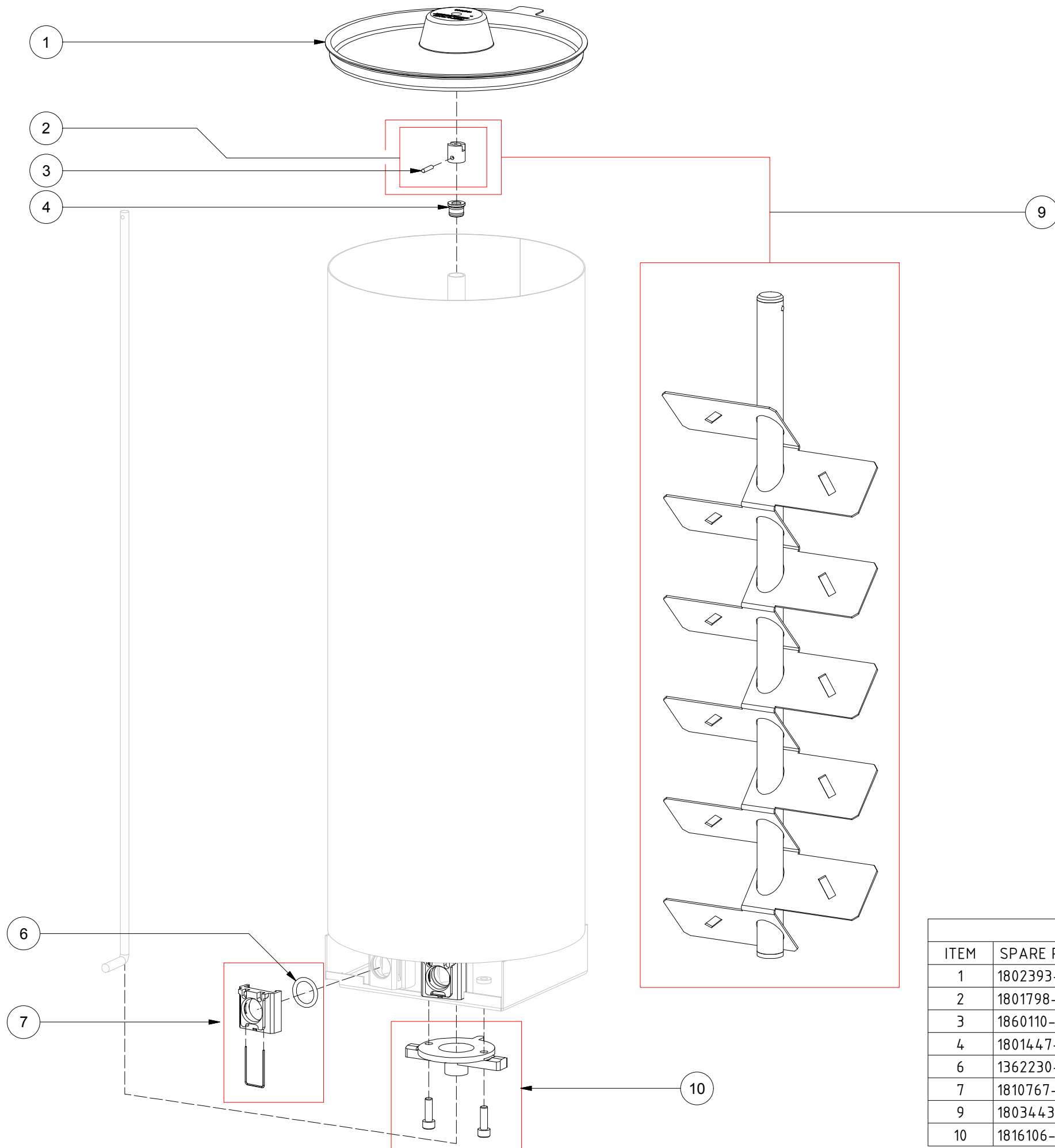
6L,POM can,1ex,POM agit 1865012-SP



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
3	1817912-SP	Agitator,6L,POM,2014	
4	1817917-SP	Shaft,canister,HA,5pcs	
5	1817427-SP	Inner tube,canister,kit	
6	1362231-SP	O-ring,cann.vit.20.29 set 10pc	
9	1817841-SP	Clip,pump,canister,HA,5pcs	
10	1362230-SP	O-ring,viton,15.88x2.62,10pcs	
12	1817423-SP	Lid POM,5/6L can,5pcs	

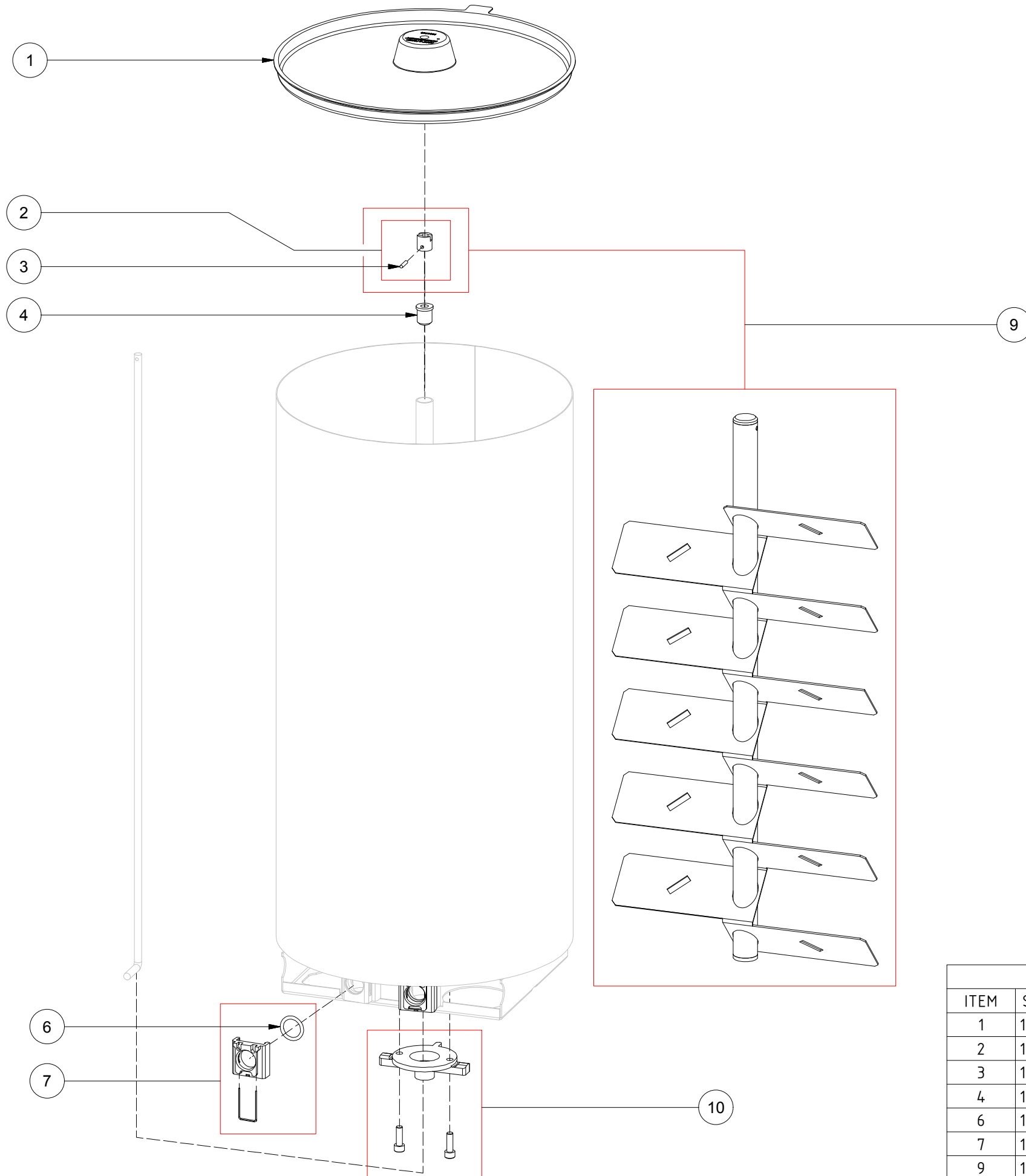
7349

10L,SST can,inn,2ex,SST agit 1810602-SP



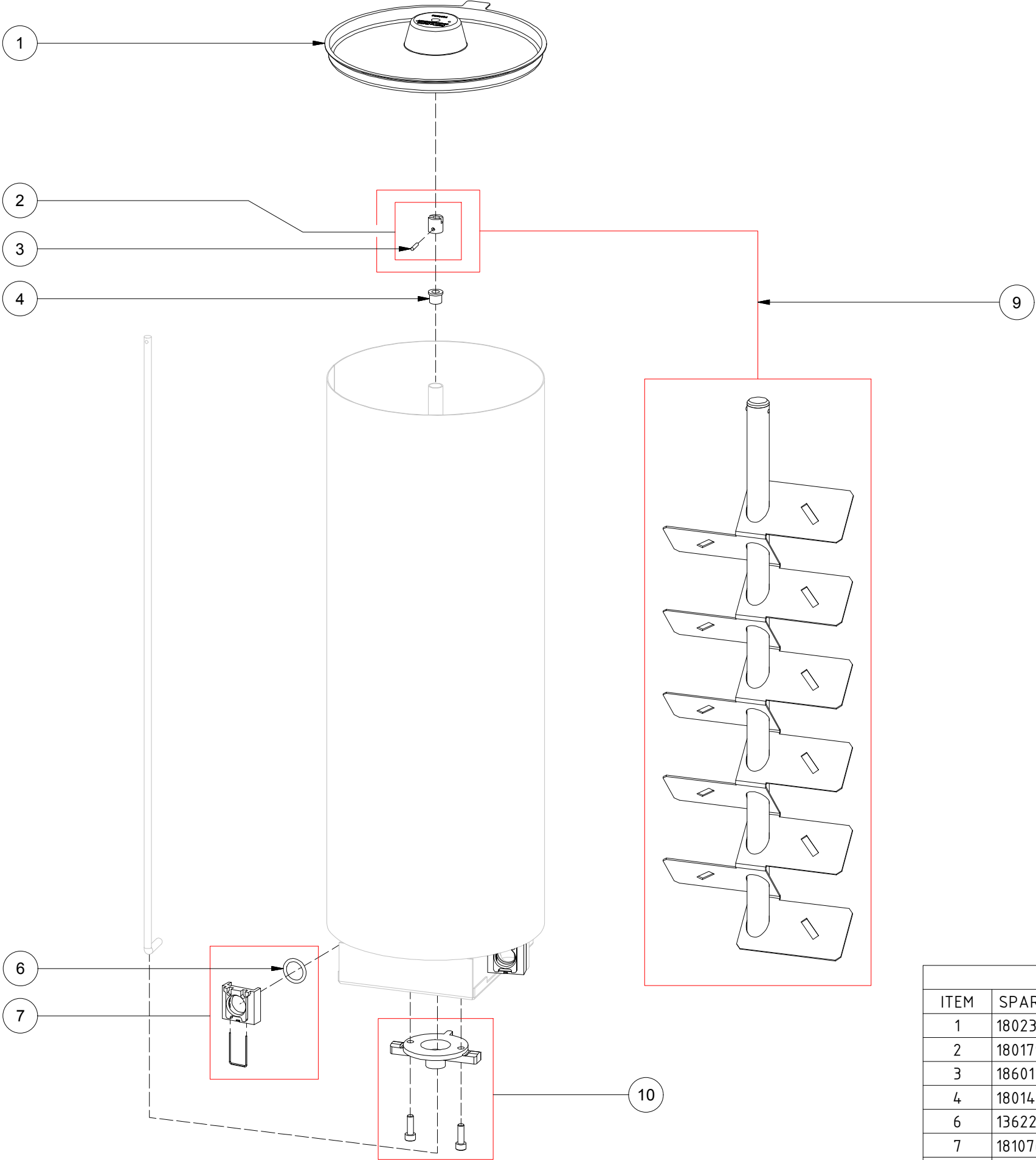
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1802393-SP	Lid POM, 10L SST can	
2	1801798-SP	Bush,center,agit.shaft,HA	
3	1860110-SP	Pin,spirol,f2.5x12,Sst,25pcs.	
4	1801447-SP	Bush,shaft-pipe,set,HA,10pcs	
6	1362230-SP	O-ring,viton,15.88x2.62,10pcs	
7	1810767-SP	Clip,spring,tube,(set 5pcs)	
9	1803443-SP	Agit SST, 10L SST can	
10	1816106-SP	Cap,bottom,sst can with screws	

7350 20L,SST can,inn,2ex,SST agit 1810761-SP



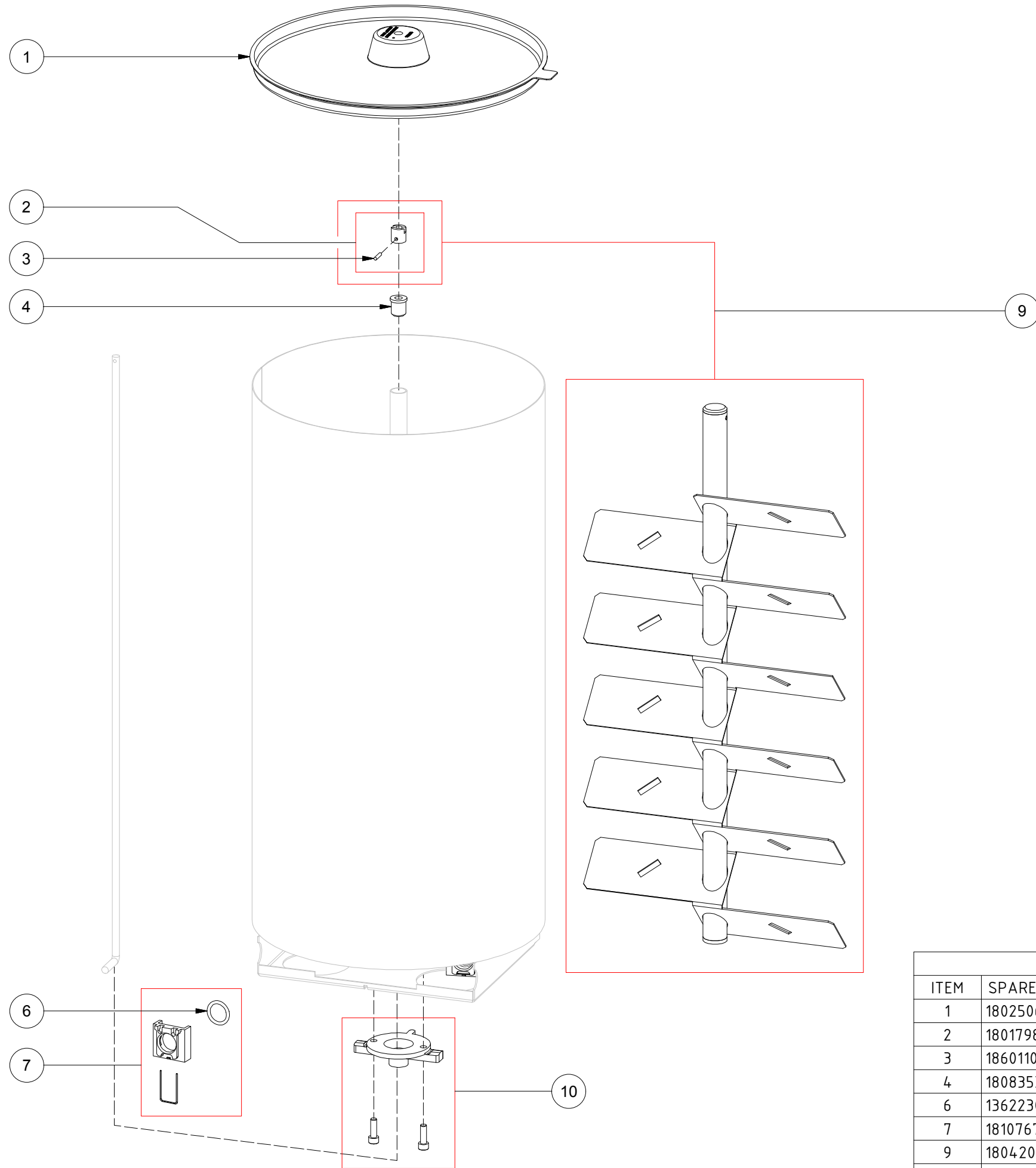
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1802506-SP	Lid POM,20L can,5pcs	
2	1801798-SP	Bush,center,agit.shaft,HA	
3	1860110-SP	Pin,spirol,f2.5x12,Sst,25pcs.	
4	1808353-SP	BUSH,6MM SHAFT,AGIT 20L,HAL	
6	1362230-SP	O-ring,viton,15.88x2.62,10pcs	
7	1810767-SP	Clip,spring,tube,(set 5pcs)	
9	1804202-SP	Agit SST, 20L SST can	
10	1816106-SP	Cap,bottom,sst can with screws	

7351 10L,SST can,out,2ex,SST agit 1813689-SP

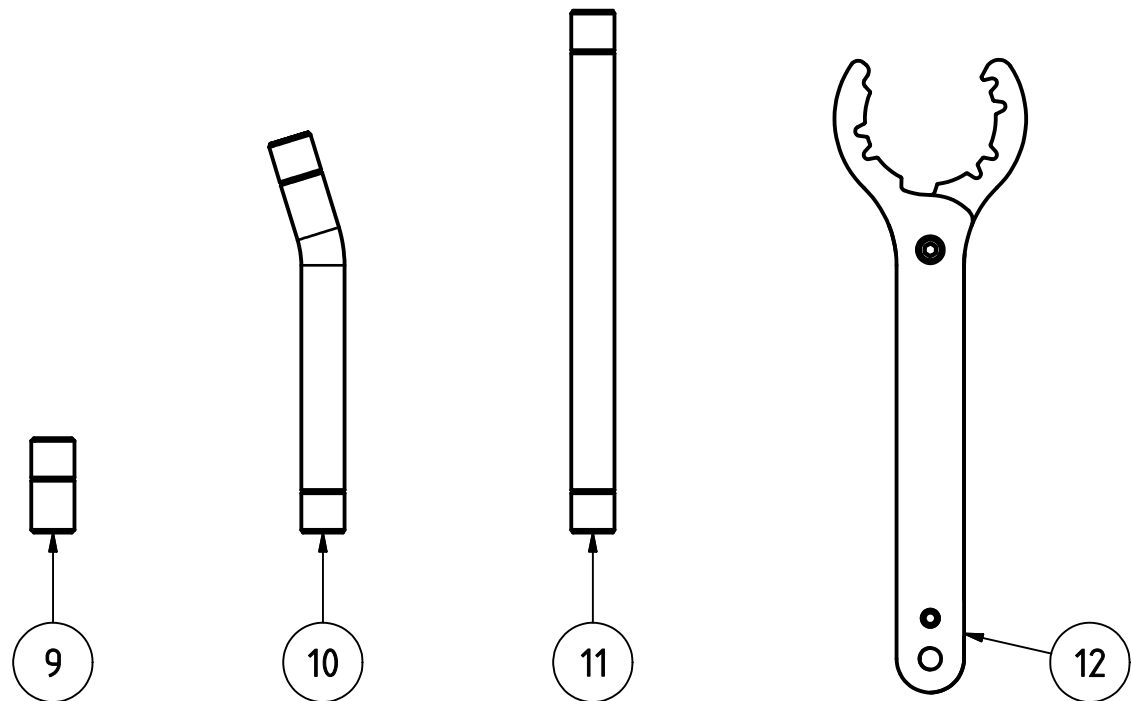
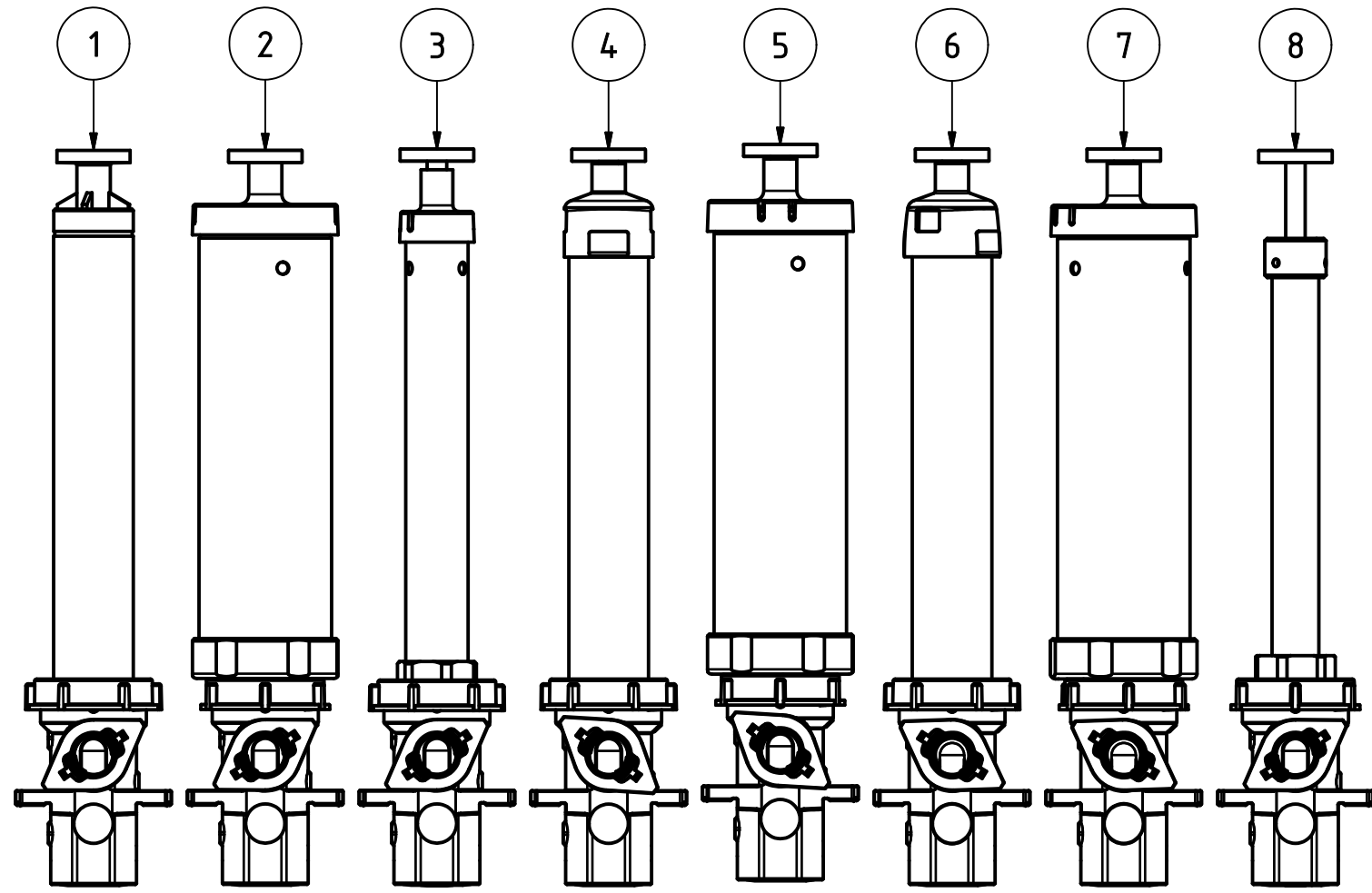


PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1802393-SP	Lid POM, 10L SST can	
2	1801798-SP	Bush,center,agit.shaft,HA	
3	1860110-SP	Pin,spirol,f2.5x12,Sst,25pcs.	
4	1801447-SP	Bush,shaft-pipe,set,HA,10pcs	
6	1362230-SP	O-ring,viton,15.88x2.62,10pcs	
7	1810767-SP	Clip,spring,tube,(Set 5pcs)	
9	1803443-SP	Agit SST, 10L SST can	
10	1816106-SP	Cap,bottom,sst can with screws	

7352 20L,SST can,out,2ex,SST agit 1810763-SP



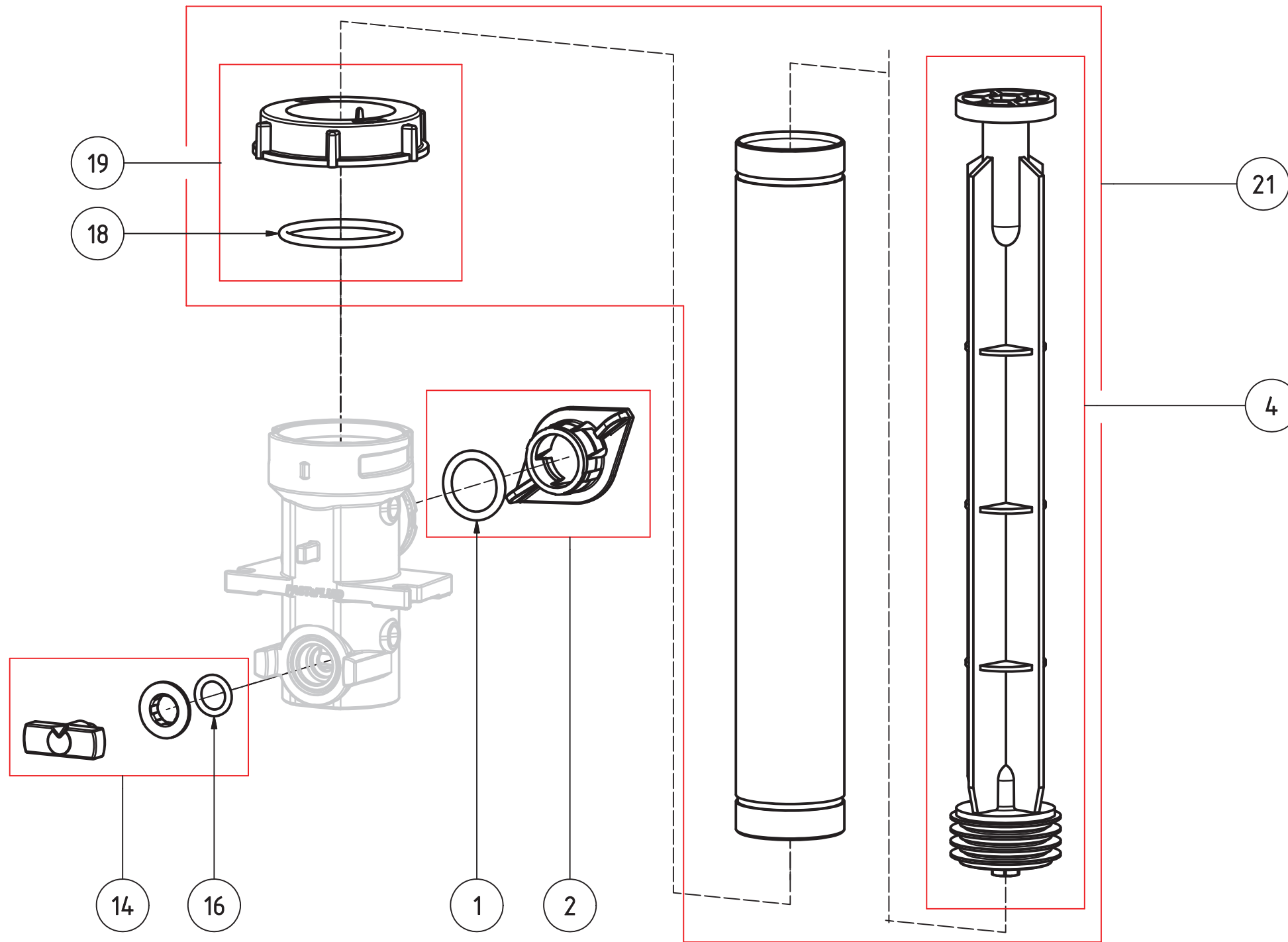
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1802506-SP	Lid POM,20L can,5pcs	
2	1801798-SP	Bush,center,agit.shaft,HA	
3	1860110-SP	Pin,spirol,f2.5x12,Sst,25pcs.	
4	1808353-SP	BUSH,6MM SHAFT,AGIT 20L,HAL	
6	1362230-SP	O-ring,viton,15.88x2.62,10pcs	
7	1810767-SP	Clip,spring,tube,(Set 5pcs)	
9	1804202-SP	Agit SST, 20L SST can	
10	1816106-SP	Cap,bottom,sst can with screws	



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1818238-SP	Pump,Ballvalve,100ml	Page 7361
2	1818310-SP	Pump,Ballvalve,300ml	Page 7362
3	1819612-SP	Pump,Ballvalve,55ml,Sample	Page 7363
4	1830356-SP	Pump,Ballvalve,100ml,Hybrid	Page 7364
5	1819917-SP	Pump,Ballvalve,300ml,Ind,3+1	Page 7365
6	1820345-SP	Pump,ballvalve,100ml,Industrial	Page 7366
7	1820328-SP	Pump,ballvalve,300ml,high performance	Page 7367
8	1819671-SP	Pump,Ballvalve,29ml,Sample	Page 7368
9	1810605-SP	Plug,canister,16x35mm,set 5pcs	
10	1810592-SP	Tube,ø16x139.8,angle 7deg,HA	
10	1814139-SP	Tube,ø16x216,angle 4.5,HA	
10	1814138-SP	Tube,ø16x139,angle 16deg,HA	
10	1814136-SP	Tube,ø16x193.7,angle 10deg,HA	
10	1814135-SP	Tube,ø16x148.2,angle 27deg,HA	
11	1810588-SP	Tube,ø16x316.3,HA	
11	1810579-SP	Tube,ø16x190.3,HA	
11	1810580-SP	Tube,ø16x180.3,HA	
11	1810582-SP	Tube,ø16x117.3,HA	
11	1810583-SP	Tube,ø16x232,3 HA	
11	1810584-SP	Tube,ø16x 74,3,HA	
11	1810587-SP	Tube,ø16x280.3,HA	
11	1810581-SP	Tube,ø16x197.3,HA	
11	1810594-SP	Tube,ø16x171.0,HA	
11	1810585-SP	Tube,ø16x 91.3,HA	
11	1804333-SP	Tube,ø16x127,HA	
11	1810586-SP	Tube,ø16x263.3,HA	
11	1805202-SP	Tube,ø16x 48.5,HA	
11	1810591-SP	Tube,ø16x333.3,HA	
11	1810590-SP	Tube,ø16x254.3,HA	
11	1810589-SP	Tube,ø16x237.3,HA	
11	1810578-SP	Tube,ø16x173.3,HA	
11	1810577-SP	Tube,ø16x 59.3,HA	
11	1810576-SP	Tube,ø16x151.3,HA	
11	1810575-SP	Tube,ø16x134.3,HA	
11	1810574-SP	Tube,ø 16x 42.3,HA	
11	1864579-SP	Tube,ø16x193.3,HA	
12	1819486-SP	Tool,nut,300ml-pump	Page 7369

7361

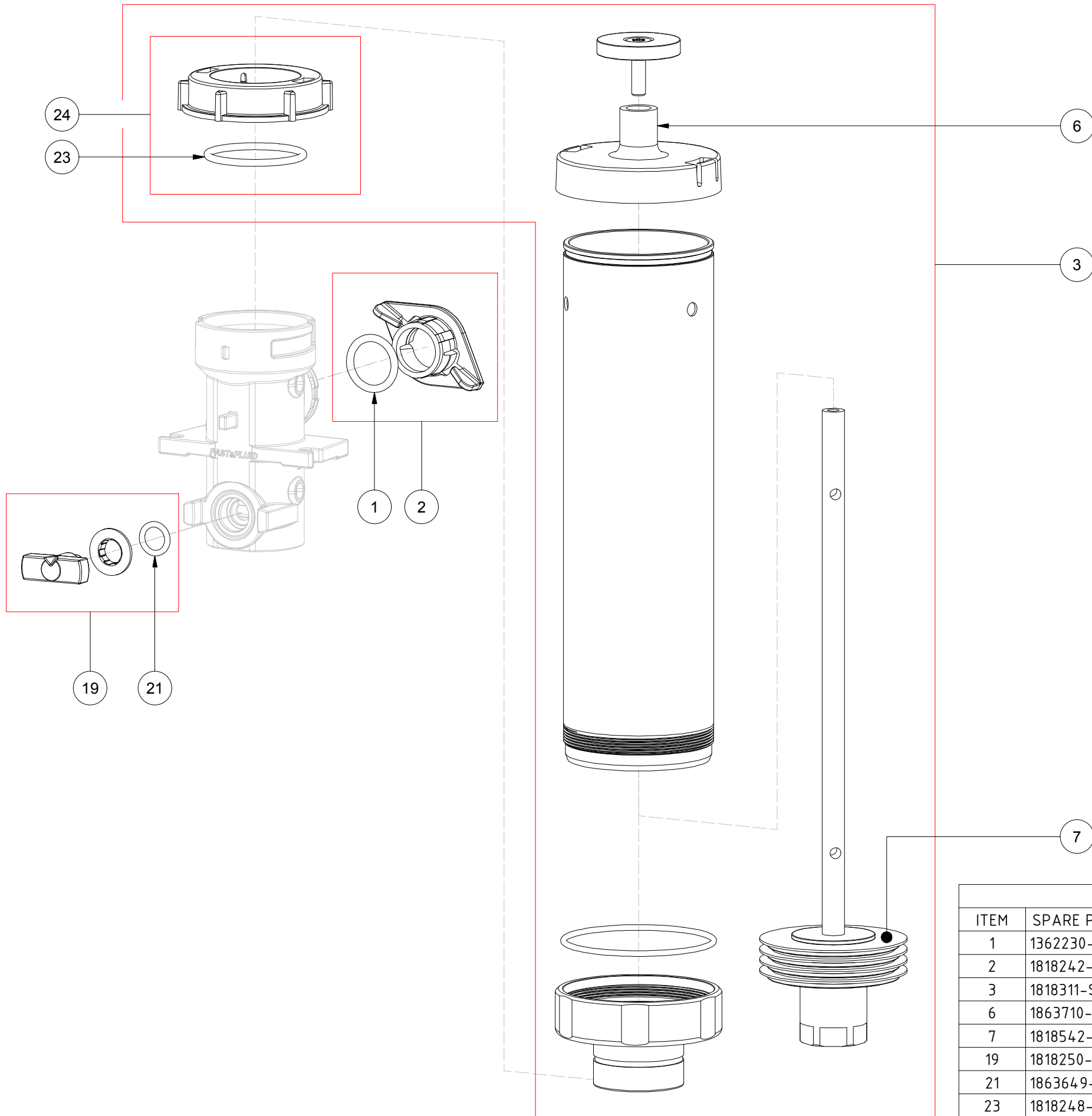
Pump,Ballvalve,100ml 1818238-SP



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1362230-SP	O-ring,can,vit,15.88x2.62 10st	
2	1818242-SP	Tube clip, 16mm (set 5pcs)	
4	1818239-SP	Pistonrod, incl. teflon (set 10pcs)	
4	1865597-SP	Pistonrod, incl. teflon (set 100pcs)	
14	1818250-SP	lever, valve (set 5pcs)	
16	1863649-SP	O-ring,8,5x2,lever,ballv,10pcs	
18	1818248-SP	O-ring,32x2.5 (10 pcs)	
19	1818240-SP	Ring,tube,100ml, (set 5pcs)	
21	1819166-SP	Pumptube,100ml,compl.(set 1pc)	

7362

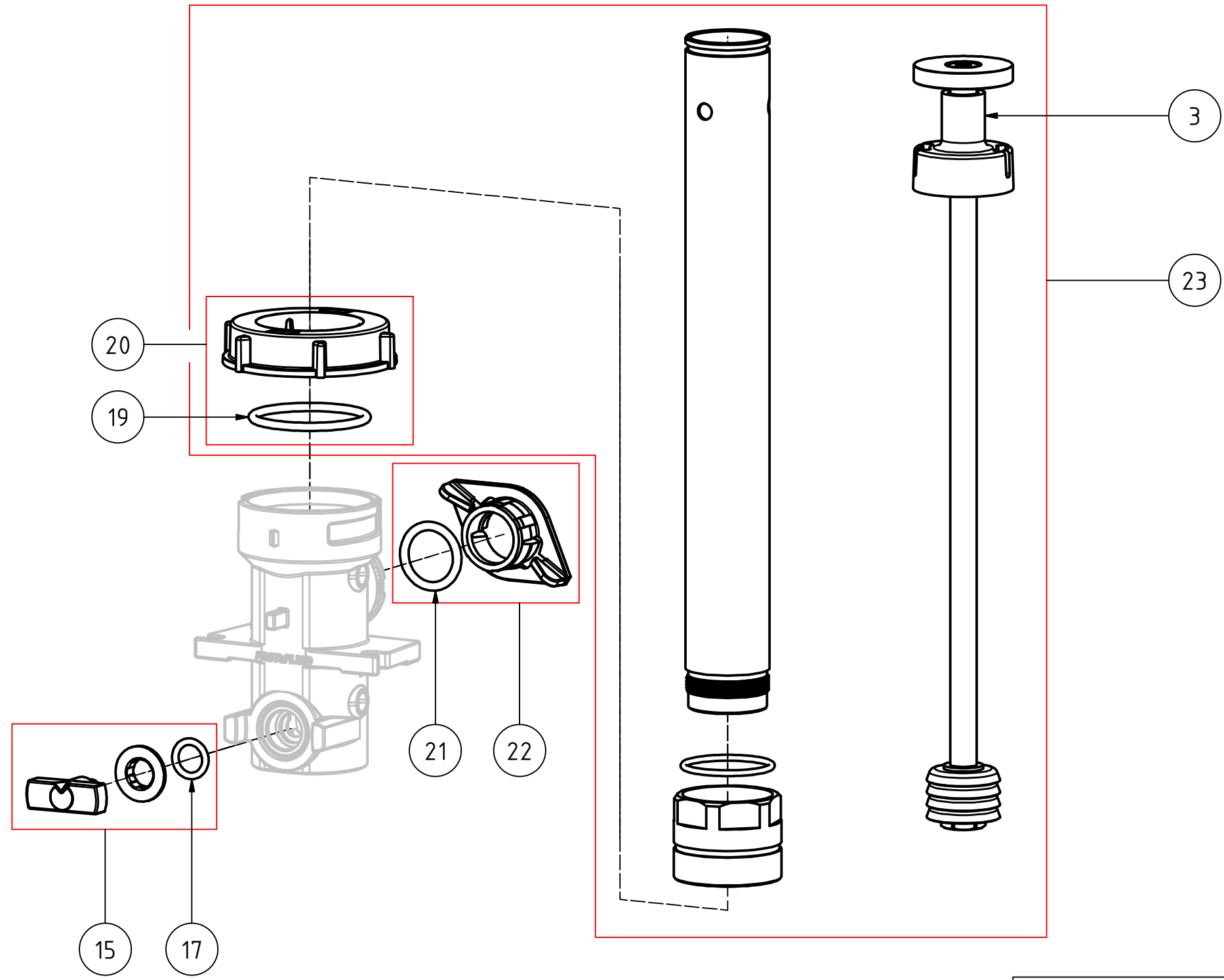
Pump, Ballvalve, 300ml 1818310-SP



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1362230-SP	O-ring, can, vit, 15.88x2.62 10st	
2	1818242-SP	Tube clip, 16mm (set 5pcs)	
3	1818311-SP	Pumptube, 300ml, compl. (set 1 pc)	
6	1863710-SP	cap, tube, 10-oz, 5pcs	
7	1818542-SP	Piston, 300ml, 10pcs	
19	1818250-SP	lever, valve (set 5pcs)	
21	1863649-SP	O-ring, 8,5x2, lever, ballv, 10pcs	
23	1818248-SP	O-ring, 32x2.5 (10 pcs)	
24	1818240-SP	Ring, tube, 100ml, (set 5pcs)	

7363

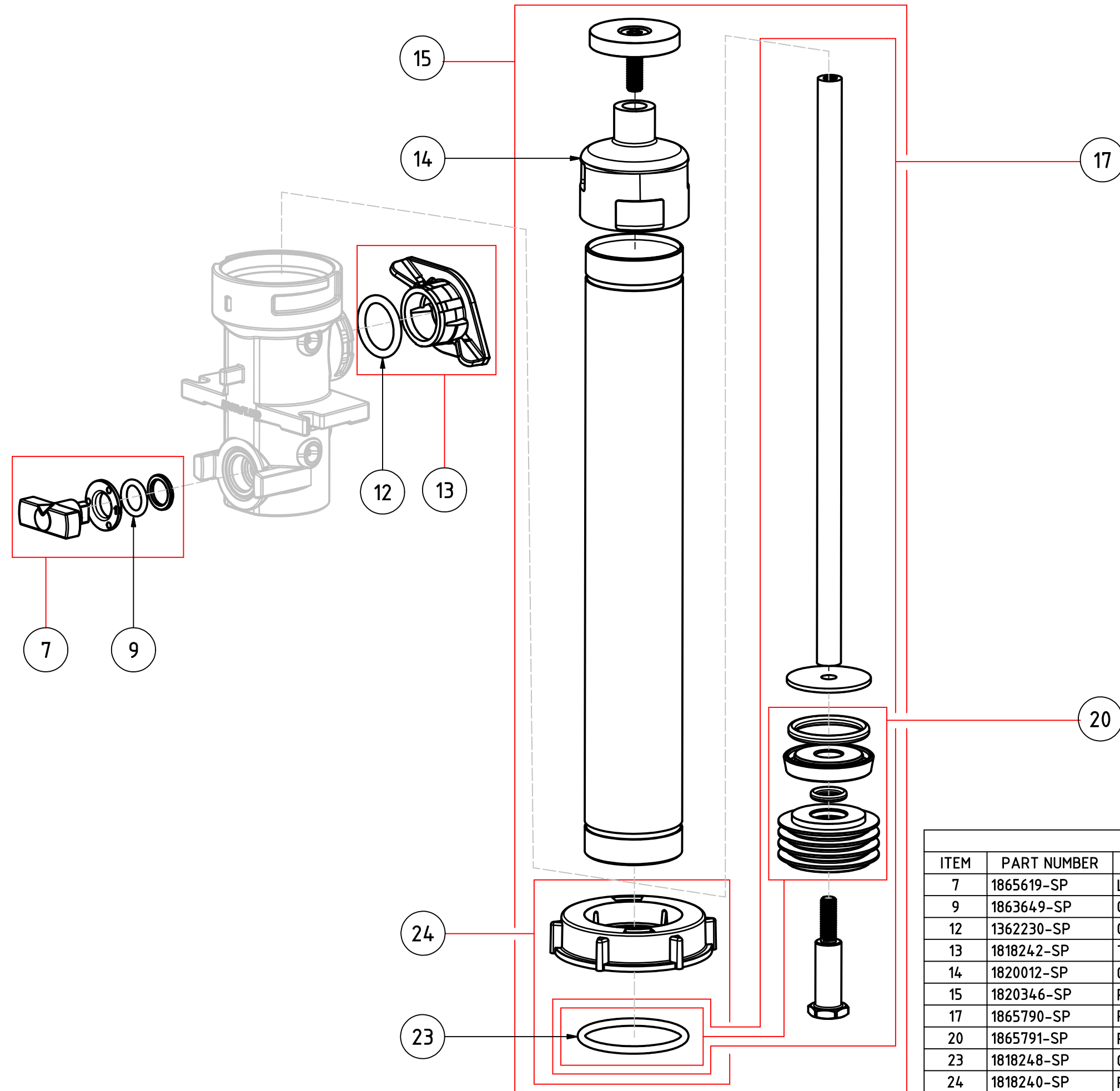
Pump,Ballvalve,55ml 1819612-SP



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
3	1813428-SP	cap,tube,2-oz,5pcs	
12	1818245-SP	Seal,ball-valve (set 50pcs)	
15	1818250-SP	lever,valve (set 5pcs)	
17	1863649-SP	O-ring,8,5x2,lever,ballv,10pcs	
19	1818248-SP	O-ring,32x2.5 (10 pcs)	
20	1818240-SP	Ring,tube,100ml, (set 5pcs)	
21	1362230-SP	O-ring,can,vit,15.88x2.62 10st	
22	1818242-SP	Tube clip, 16mm (set 5pcs)	
23	1865739-SP	Pumptube,assy,55ml,sample disp	

7364

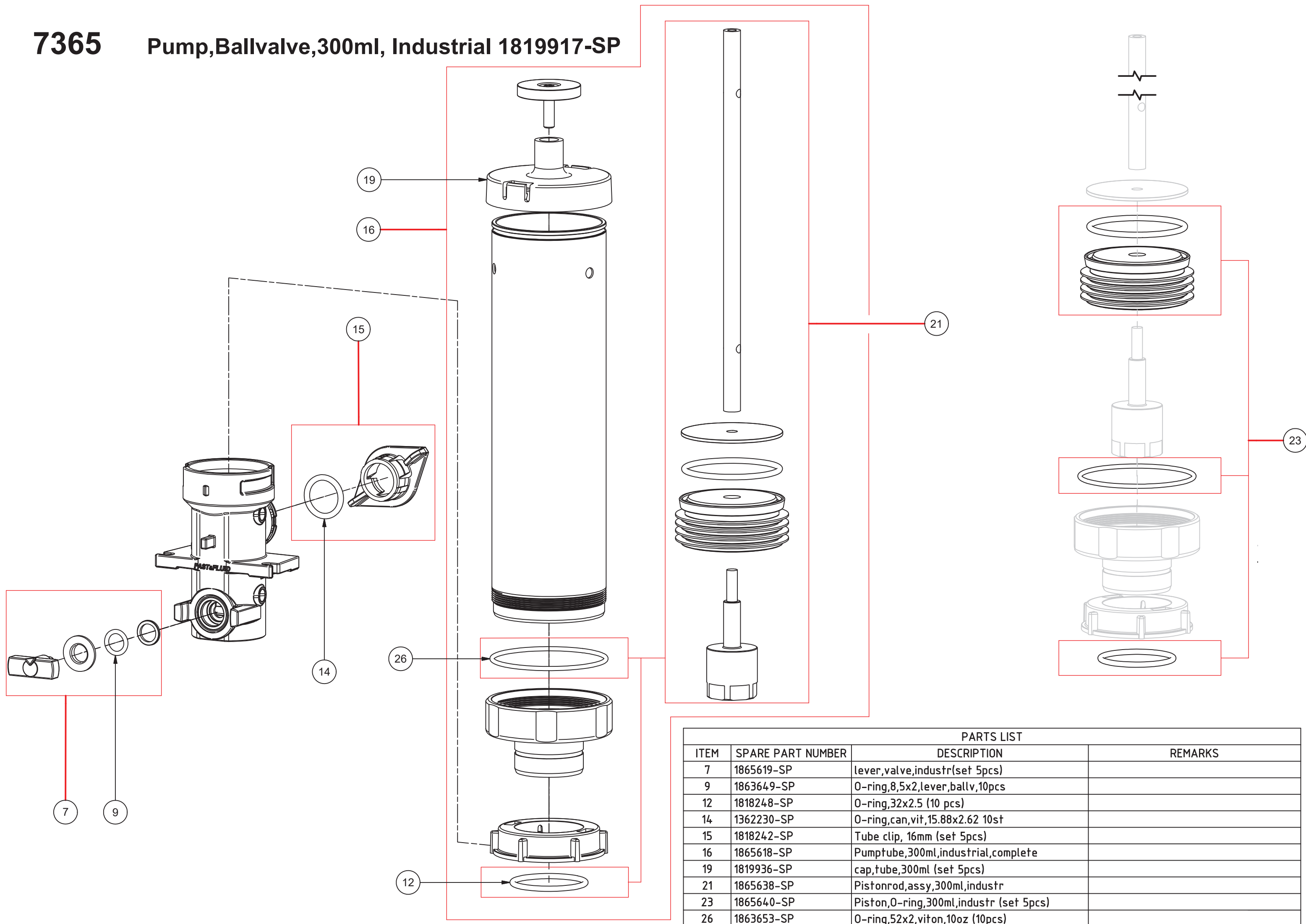
Pump,Ballvalve,100ml hybrid 1830356-SP



PARTS LIST				
ITEM	PART NUMBER	DESCRIPTION	REMARKS	QTY
7	1865619-SP	Lever, valve, industr (set 5 pcs)		1
9	1863649-SP	O-ring, 8.5x2, lever, ballv, 10pcs		1
12	1362230-SP	O-ring, can, vit, 15.88x2.62, 10pcs		1
13	1818242-SP	Tube clip, 16mm (set 5pcs)		1
14	1820012-SP	Cap, tube, industrial (set 5pcs)		1
15	1820346-SP	Pumptube, 100ml, HPP, compl (set 1pc)		1
17	1865790-SP	Piston, rod, assy, 100ml, HPP		1
20	1865791-SP	Piston, 100ml, HPP (set 5pcs)		1
23	1818248-SP	O-ring, 32x2.5 (10pcs)		1
24	1818240-SP	Ring, tube, 100ml (set 5pcs)		1

7365

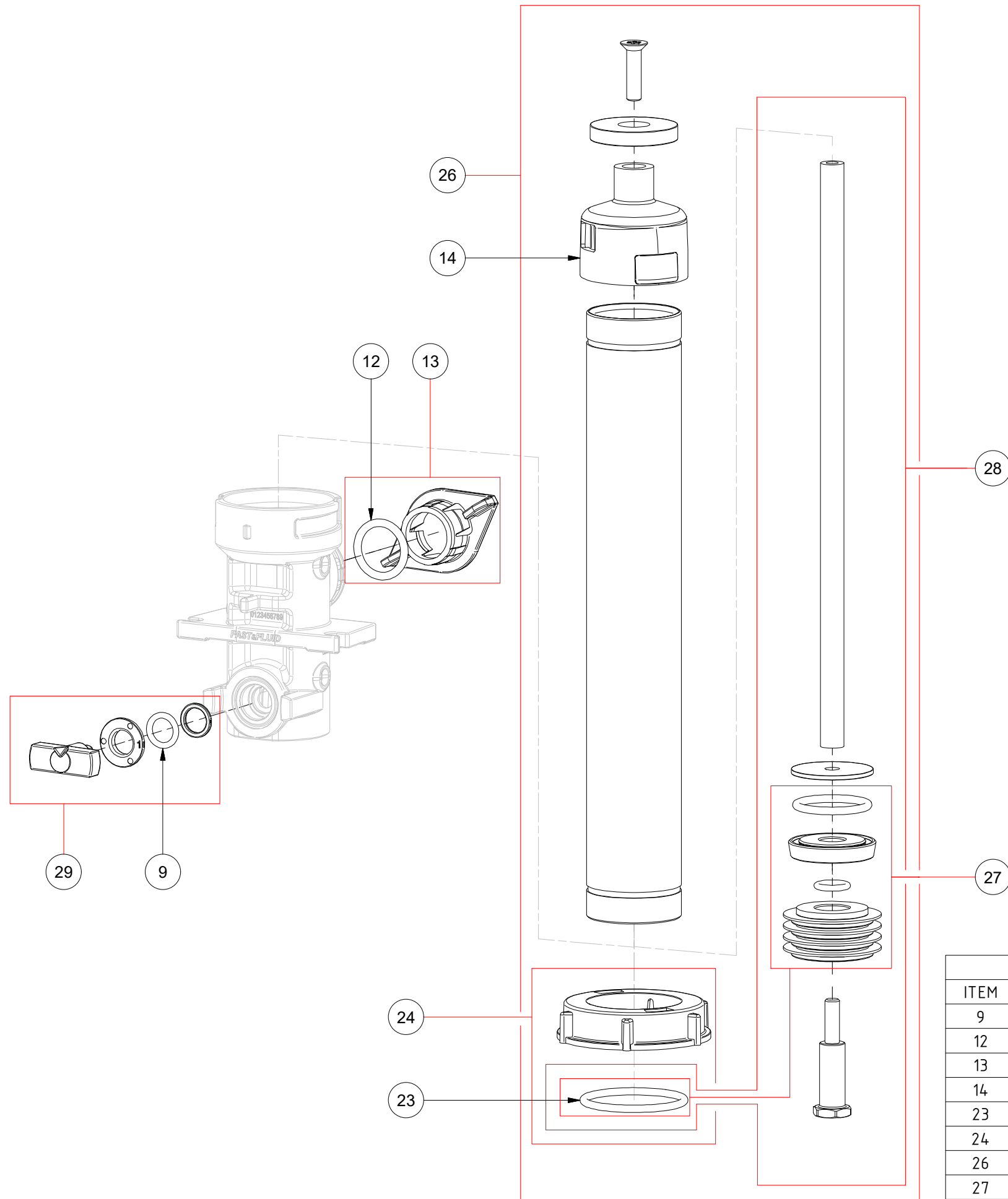
Pump,Ballvalve,300ml, Industrial 1819917-SP



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
7	1865619-SP	lever, valve, industr(set 5pcs)	
9	1863649-SP	O-ring, 8,5x2, lever, ballv, 10pcs	
12	1818248-SP	O-ring, 32x2.5 (10 pcs)	
14	1362230-SP	O-ring, can, vit, 15.88x2.62 10st	
15	1818242-SP	Tube clip, 16mm (set 5pcs)	
16	1865618-SP	Pumptube, 300ml, industrial, complete	
19	1819936-SP	cap, tube, 300ml (set 5pcs)	
21	1865638-SP	Pistonrod, assy, 300ml, industr	
23	1865640-SP	Piston, O-ring, 300ml, industr (set 5pcs)	
26	1863653-SP	O-ring, 52x2, viton, 10oz (10pcs)	

7366

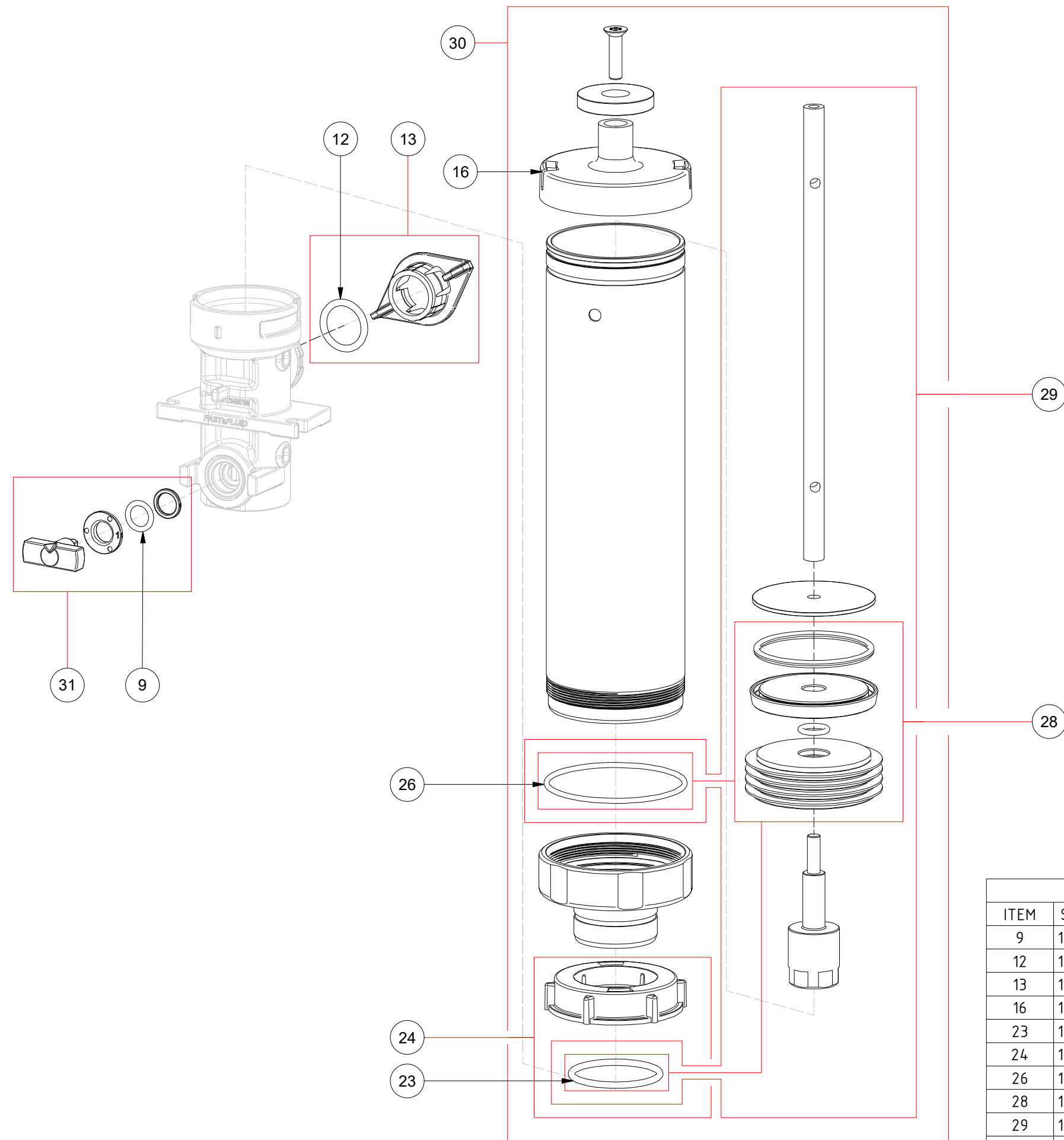
Pump,Ballvalve,100ml, high performance 1820345-SP



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
9	1863649-SP	O-ring,8,5x2,lever,ballv,10pcs	
12	1362230-SP	O-ring,can,vit,15.88x2.62 10st	
13	1818242-SP	Tube clip, 16mm (set 5pcs)	
14	1820012-SP	Cap,tube,industrial (set 5pcs)	
23	1818248-SP	O-ring,32x2.5 (10 pcs)	
24	1818240-SP	Ring,tube,100ml, (set 5pcs)	
26	1820346-SP	Pumptube,100ml,HPP,compl.(set 1pc)	
27	1865791-SP	Piston,100ml,HPP (set 5pcs)	
28	1865790-SP	Piston,rod,assy,100ml,HPP	
29	1865619-SP	Lever, valve, industr(set 5 pcs)	

7367

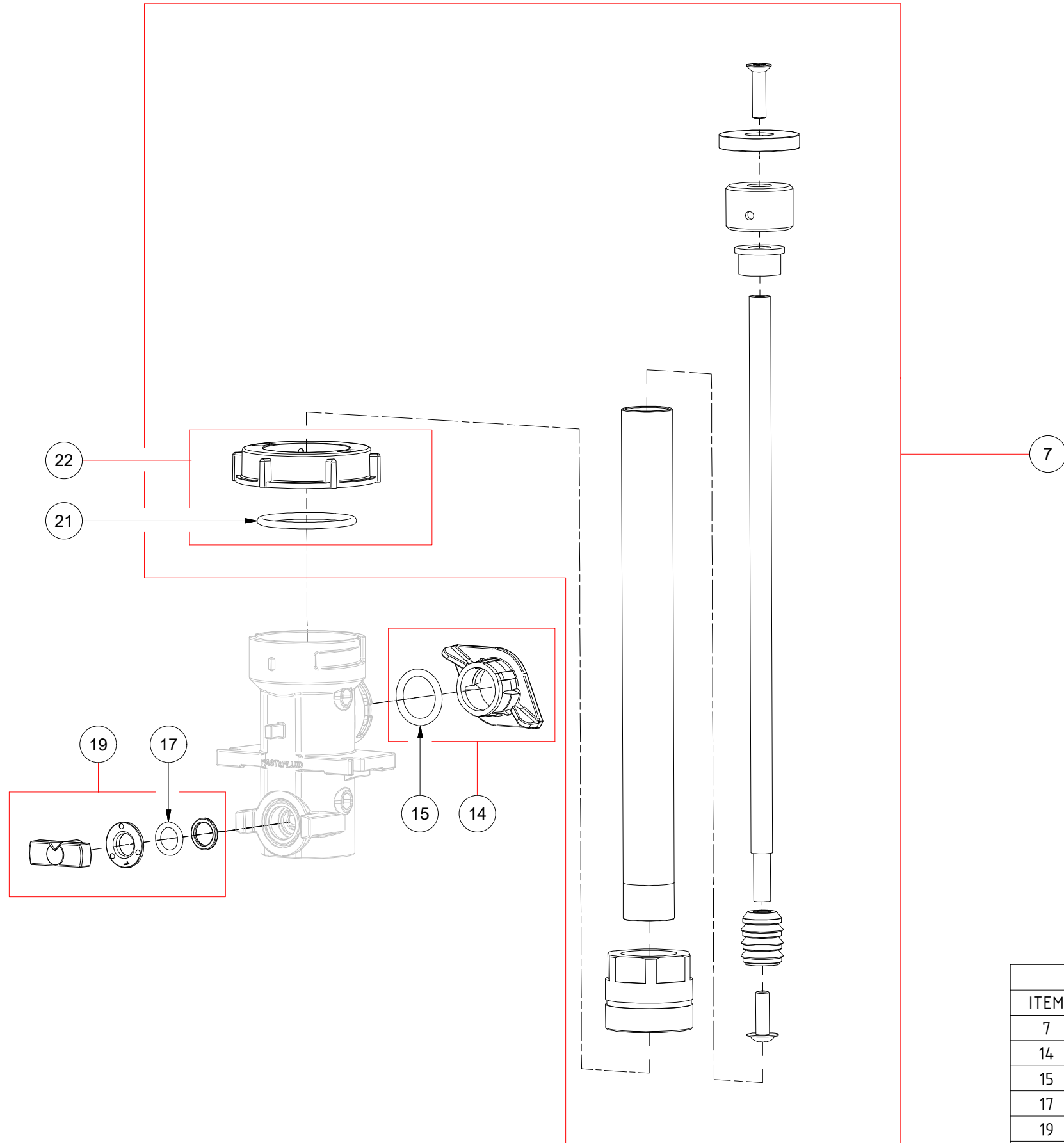
Pump,Ballvalve,300ml, high performance 1820328-SP



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
9	186364-9-SP	O-ring,8,5x2,lever,ballv,10pcs	
12	1362230-SP	O-ring,can,vit,15.88x2.62 10st	
13	1818242-SP	Tube clip, 16mm (set 5pcs)	
16	1819936-SP	cap,tube,10-oz, 5pcs	
23	1818248-SP	O-ring,32x2.5 (10 pcs)	
24	1818240-SP	Ring,tube,100ml, (set 5pcs)	
26	1863653-SP	O-ring,52x2,viton,10oz (10pcs)	
28	1865794-SP	Piston,O-ring,300ml,HPP (set 5pcs)	
29	1865792-SP	Piston,rod,assy,300ml,HPP	
30	1820347-SP	HPP-tube,300ml,industr,compl	
31	1865619-SP	Lever,valve,industr(set 5 pcs)	

7368

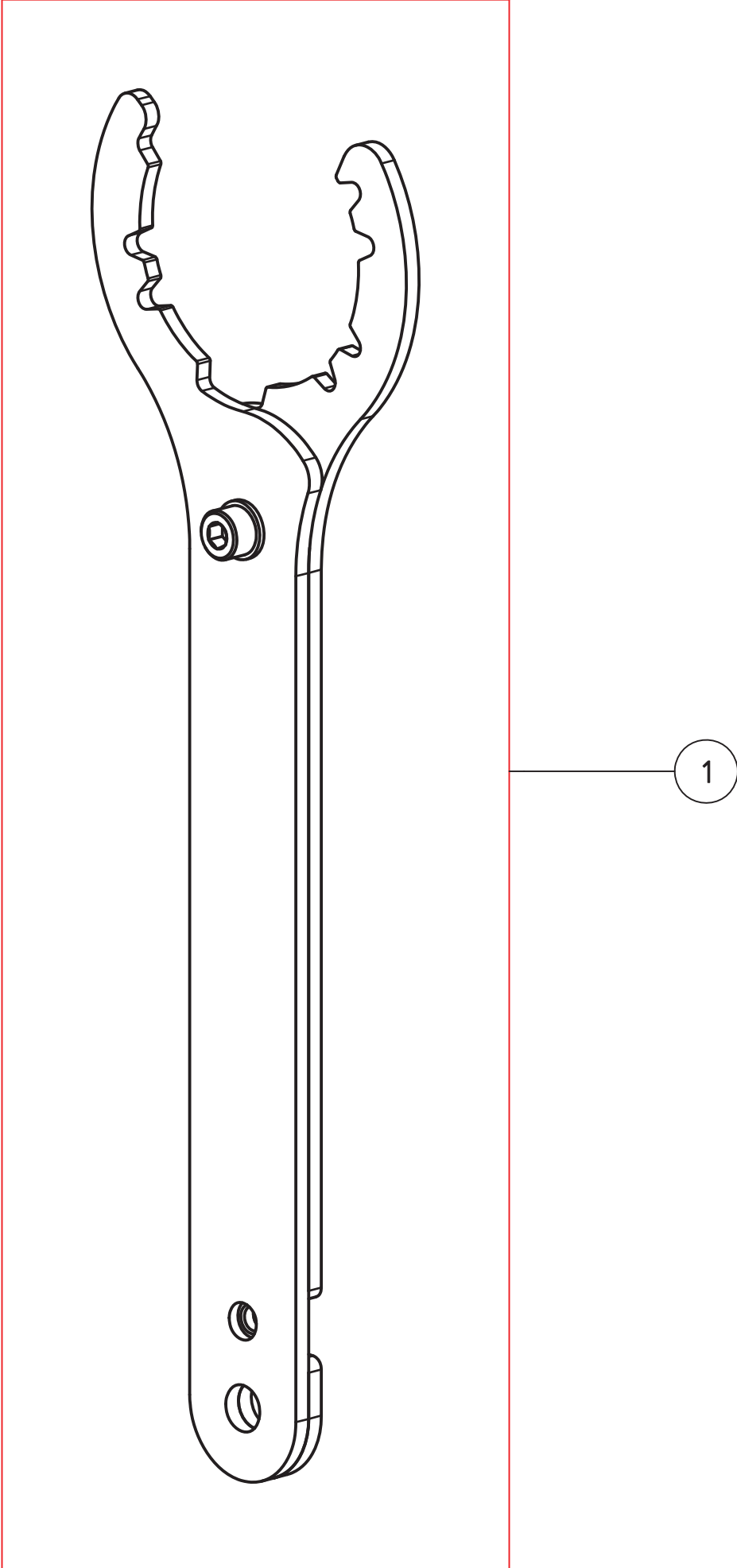
Pump,Ballvalve,29ml,1819671-SP



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
7	1819668-SP	Pumptube,29ml,compl.(set 1pc)	
14	1818242-SP	Tube clip, 16mm (set 5pcs)	
15	1362230-SP	O-ring,viton,15.88x2.62,10pcs	
17	186364-9-SP	O-ring,8,5x2,lever,ballv,10pcs	
19	1818250-SP	lever, valve (set 5pcs)	
21	1818248-SP	O-ring,32x2.5 (10 pcs)	
22	1818240-SP	Ring,tube,100ml, (set 5pcs)	

7369

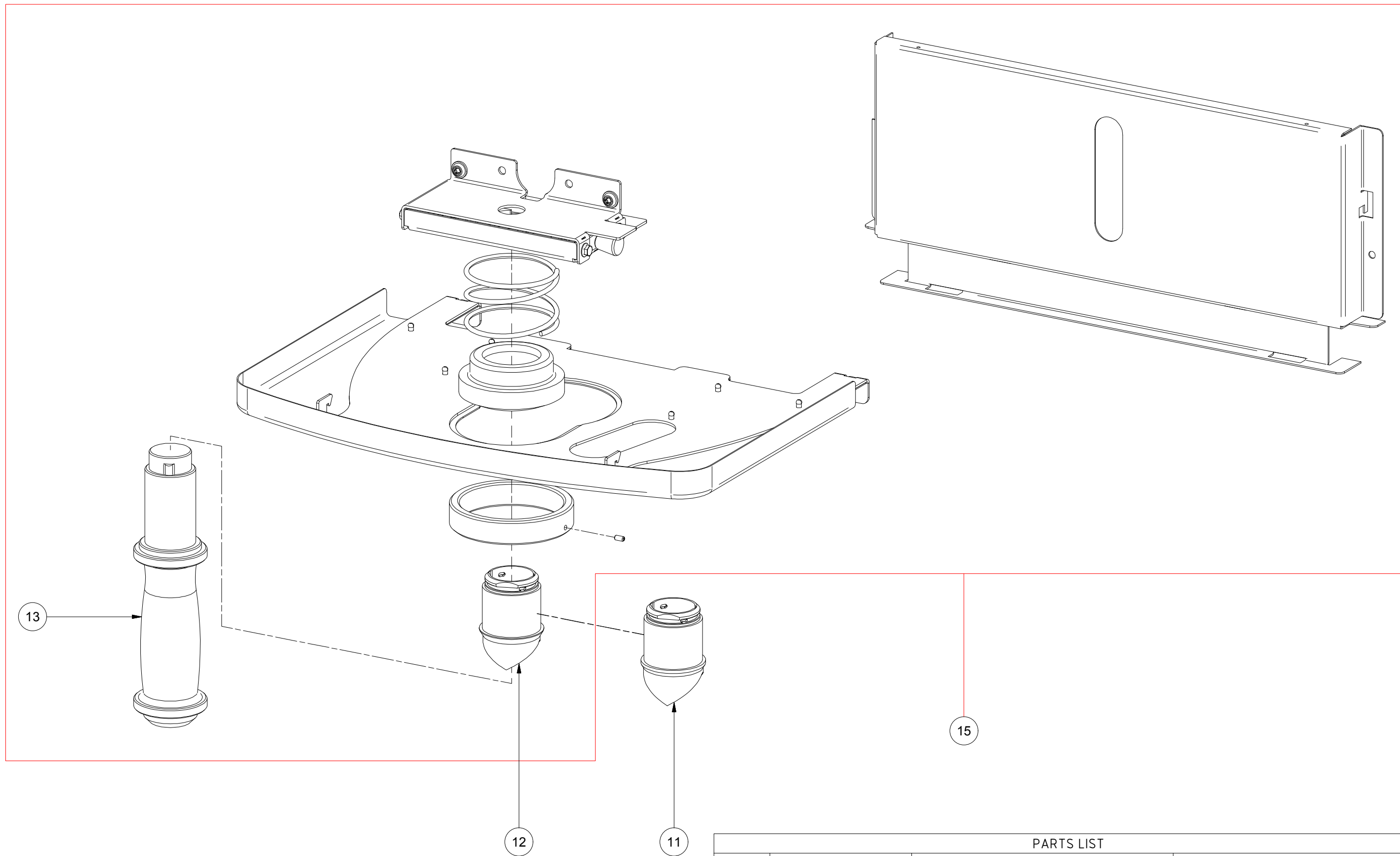
Tool 300 ml-pump



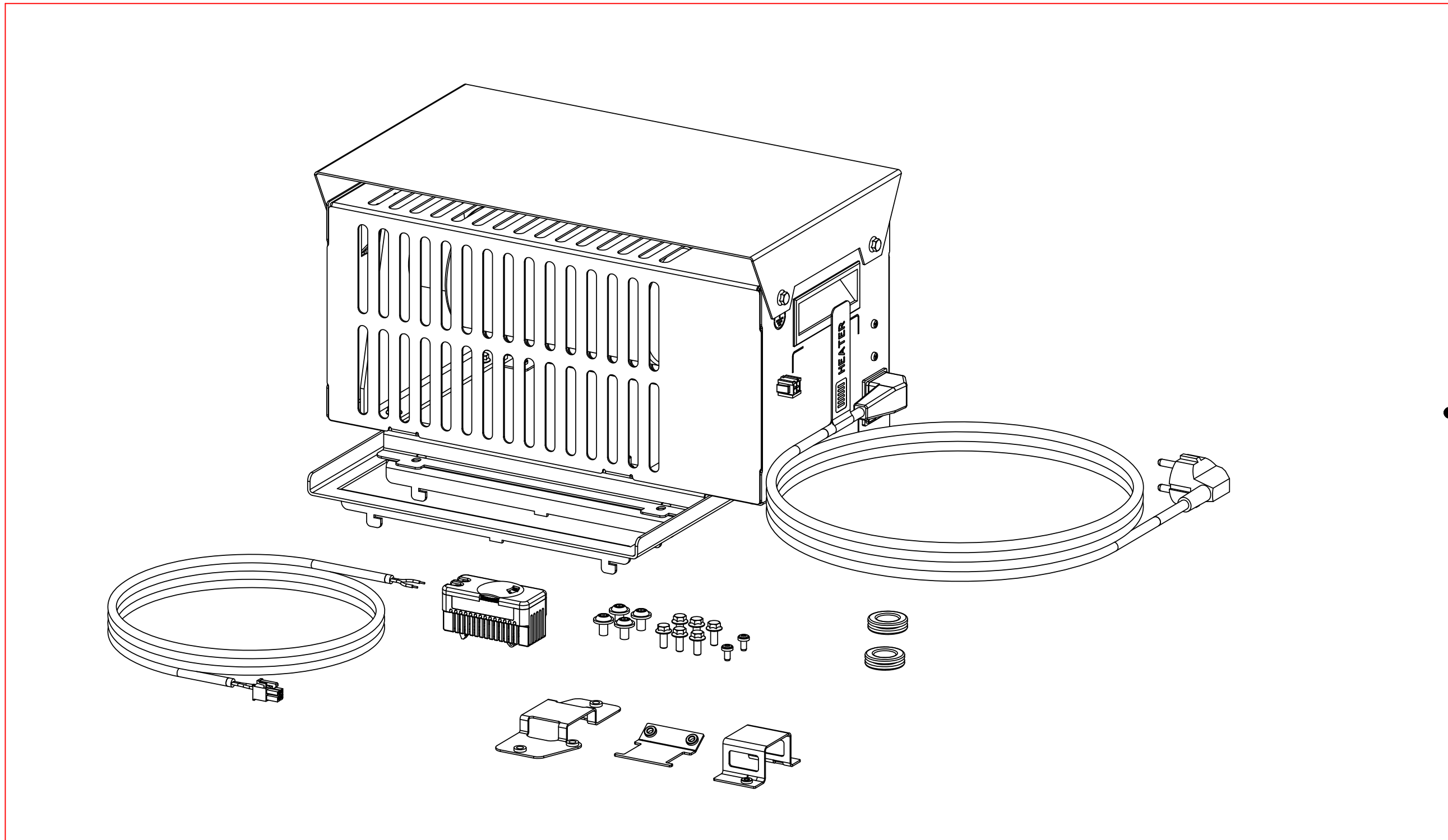
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	18194.86-SP	Tool,nut,300ml-pump	

7371

Punch

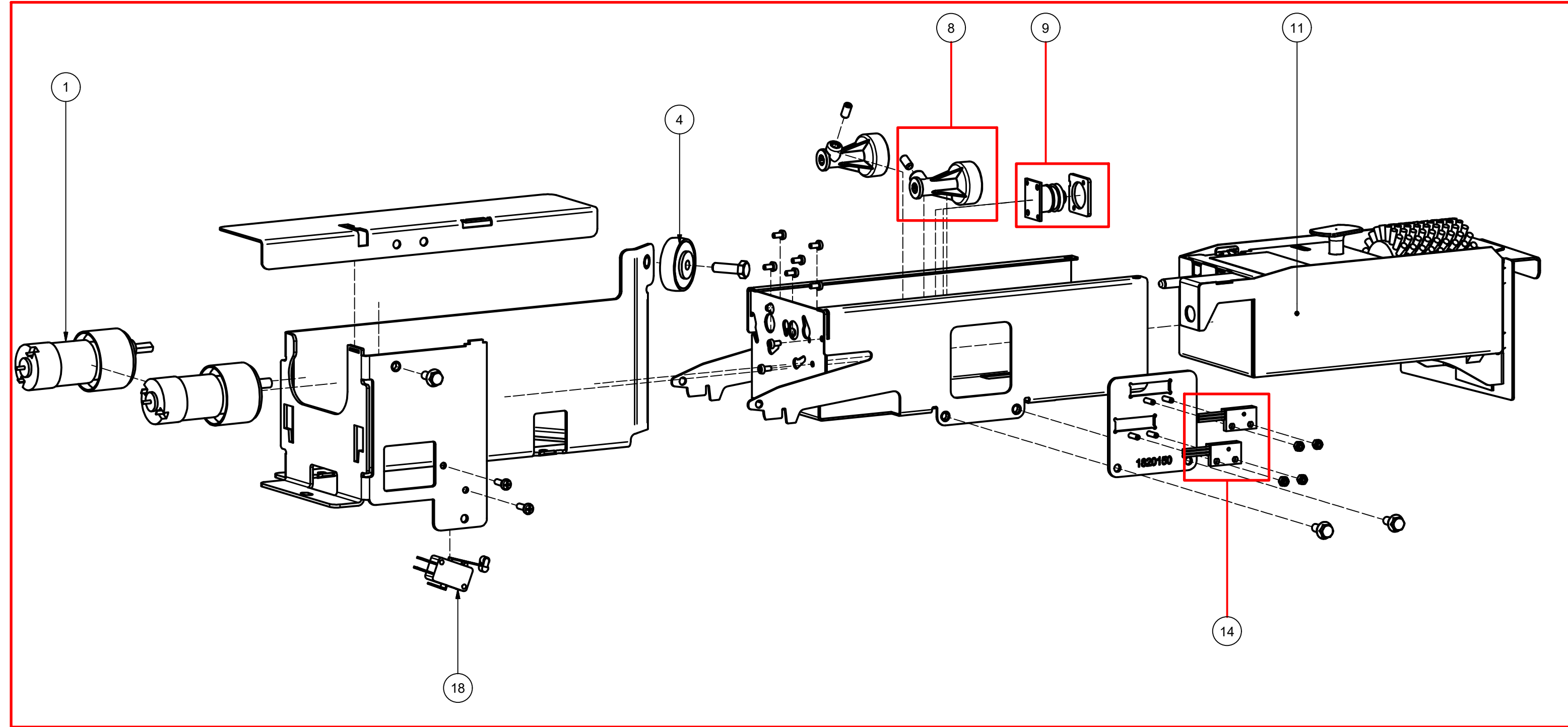


PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
11	1819444-SP	Blade,punch,4.8mm,2pcs	
12	1819370-SP	Blade,punch,4.6mm,2pcs	
13	1819362-SP	tool,punch,HA,HP	
15	1819009-SP	Electric punch HA480, complete	



11

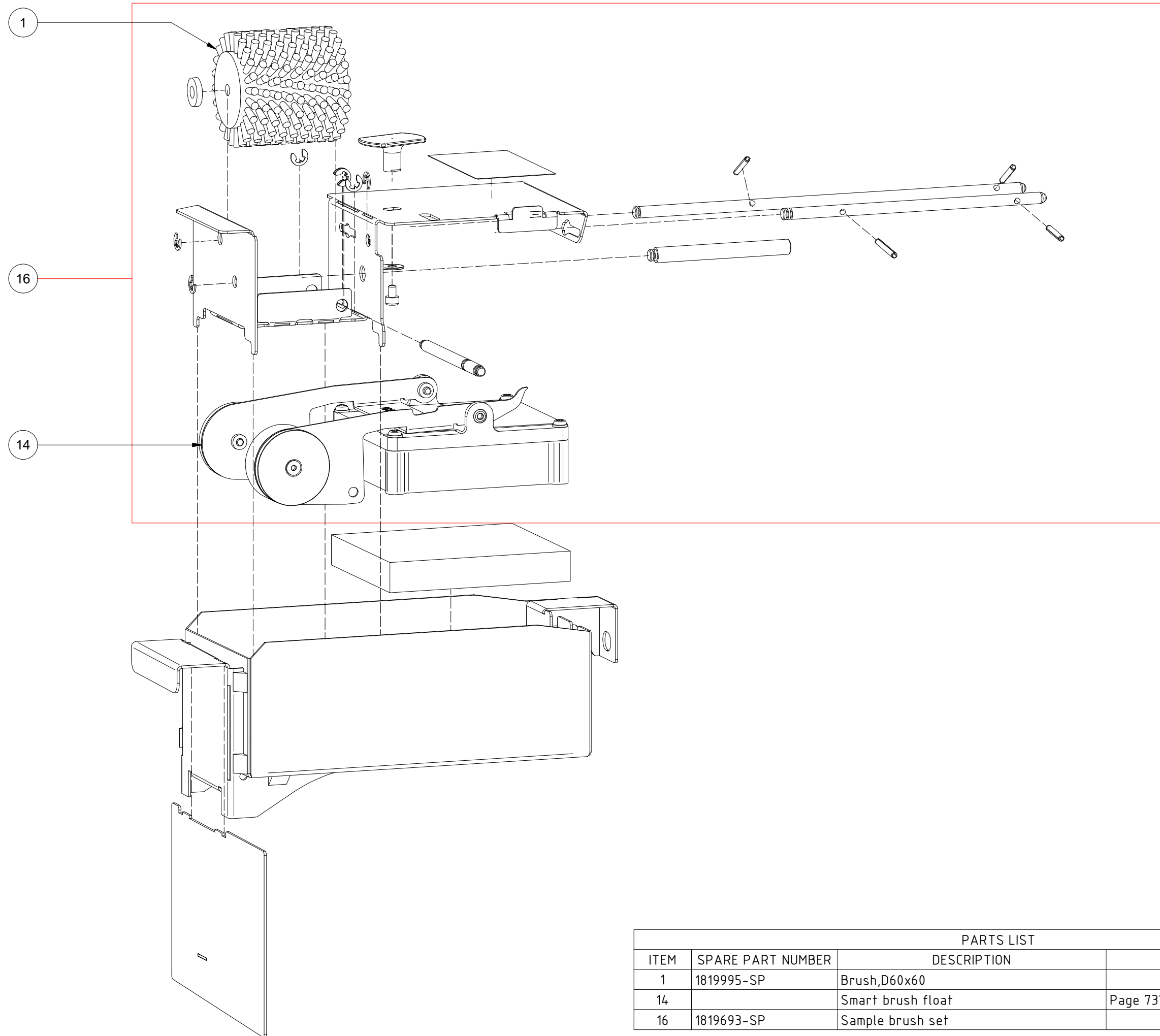
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
11	1819274-SP	Heating module	



19

PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1862721-SP	Motor,micro,158-24-100	
4	1862422-SP	Wheel,traversing,centric,35mm	
8	1818735-SP	Coupling,fork,brush(set 1pc)	
9	1818541-SP	Latch,push-in/out	
11		Smart brush container	Page 7378
14	1820152-SP	Sensors set (2pcs)	
18	1160200-SP	Switch,micro,V-166-105(R)	
19	1819942-SP	Brush,Sample Dispenser	

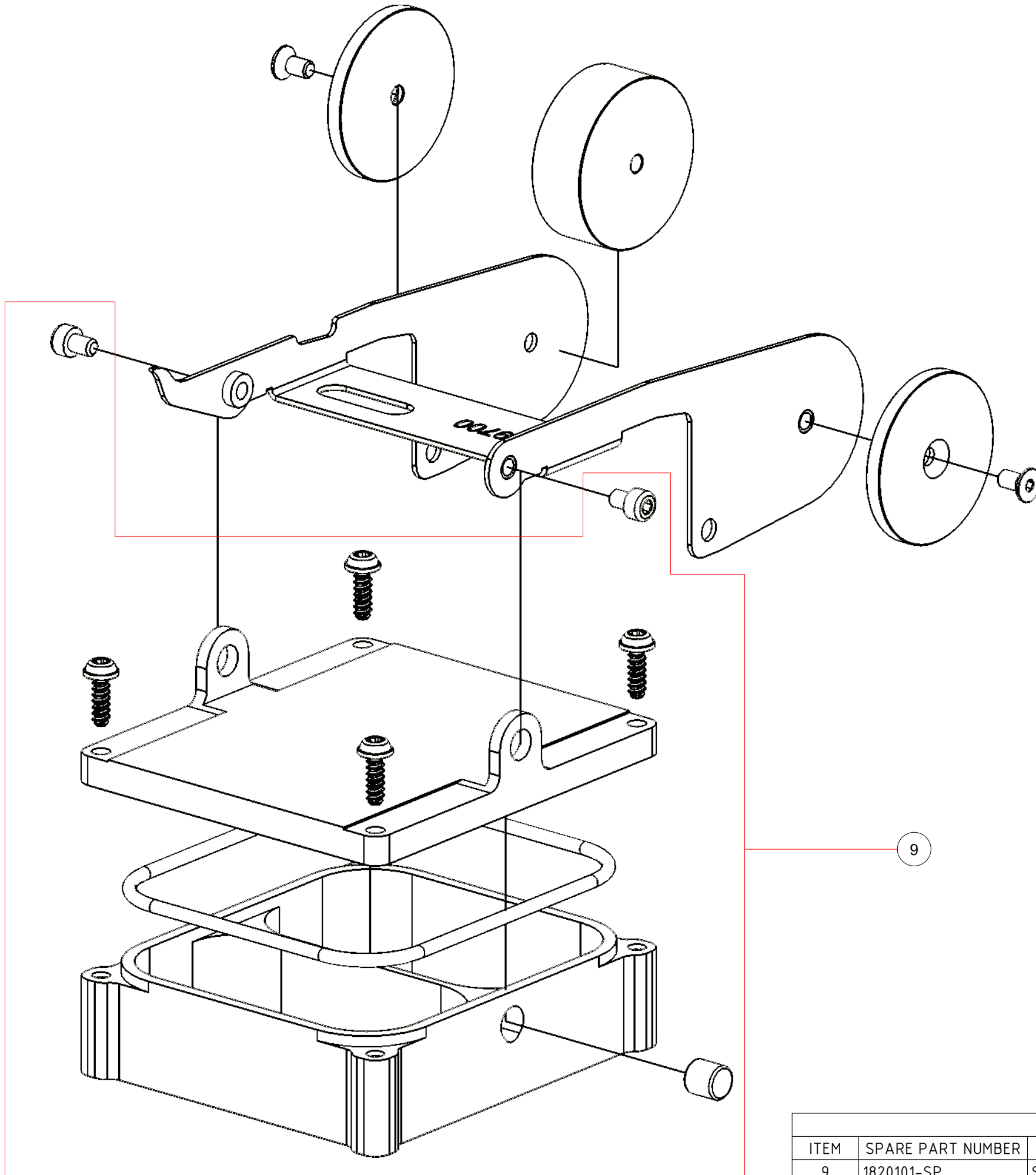
Sample brush container



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1819995-SP	Brush,D60x60	
14		Smart brush float	Page 7379
16	1819693-SP	Sample brush set	

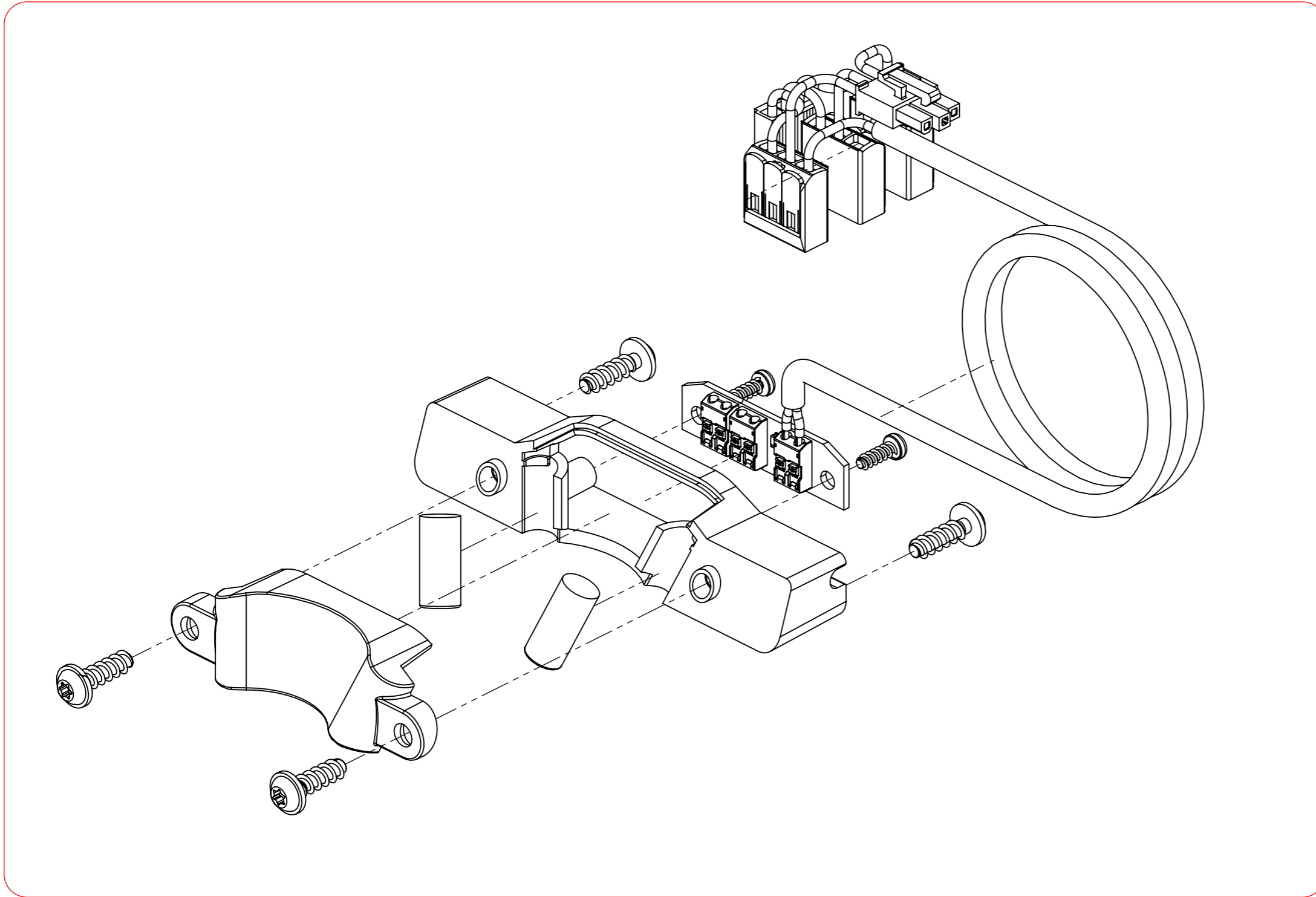
7379

Sample brush float



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
9	1820101-SP	Sample brush float set	

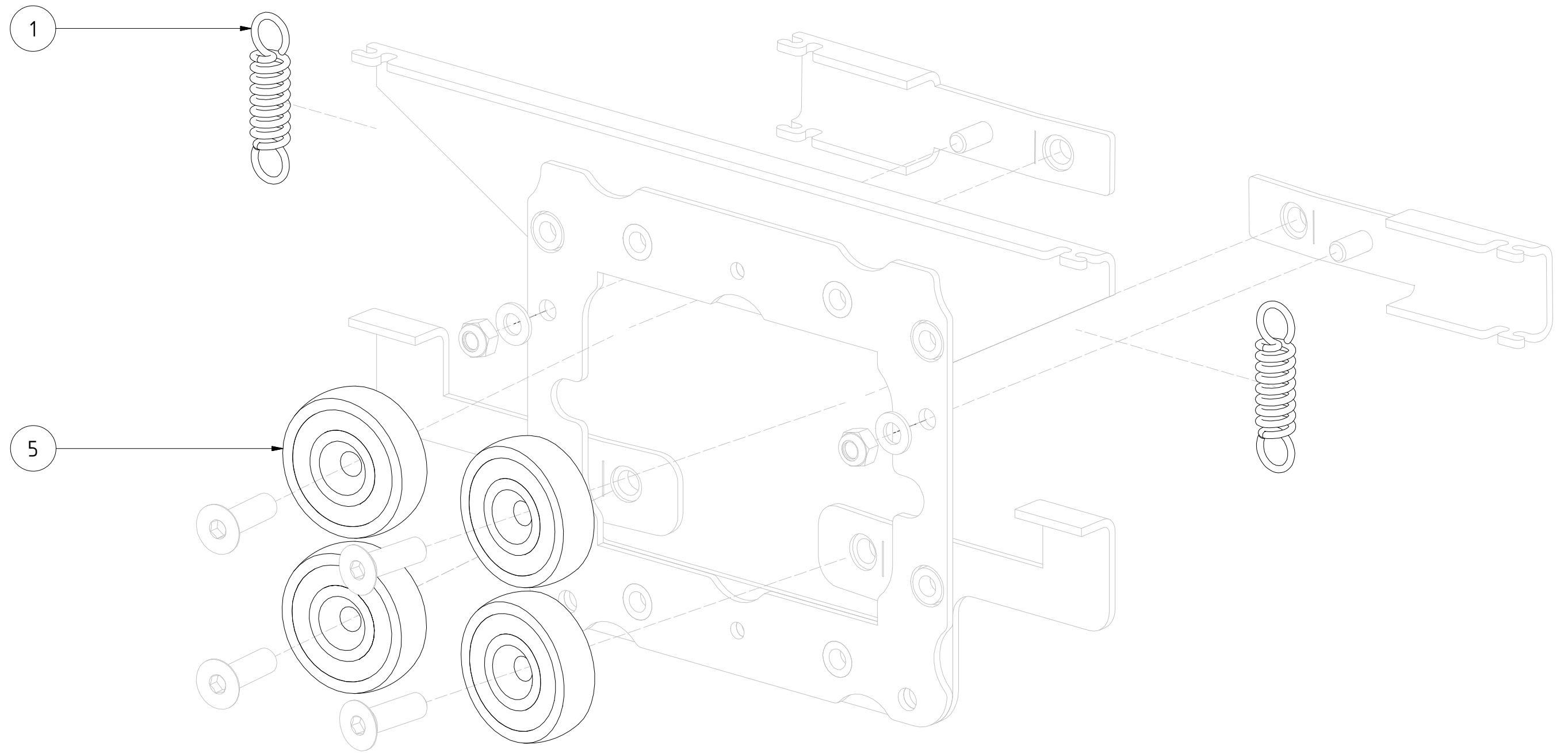
7380 Can positioning light



SPARE PARTS LIST			
ITEM	PART #	DESCRIPTION	REMARK
1	1820312-SP	CPL, HAx80	

7381

Sample, bearing plate, valve motor



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1820536-SP	Spring (set 2pcs)	
5	1818698-SP	Wheel,asymmetric,35mm(set 4pcs)	