

SPARE PARTS BOOK

HA480



v. 02-05-2018

INDEX

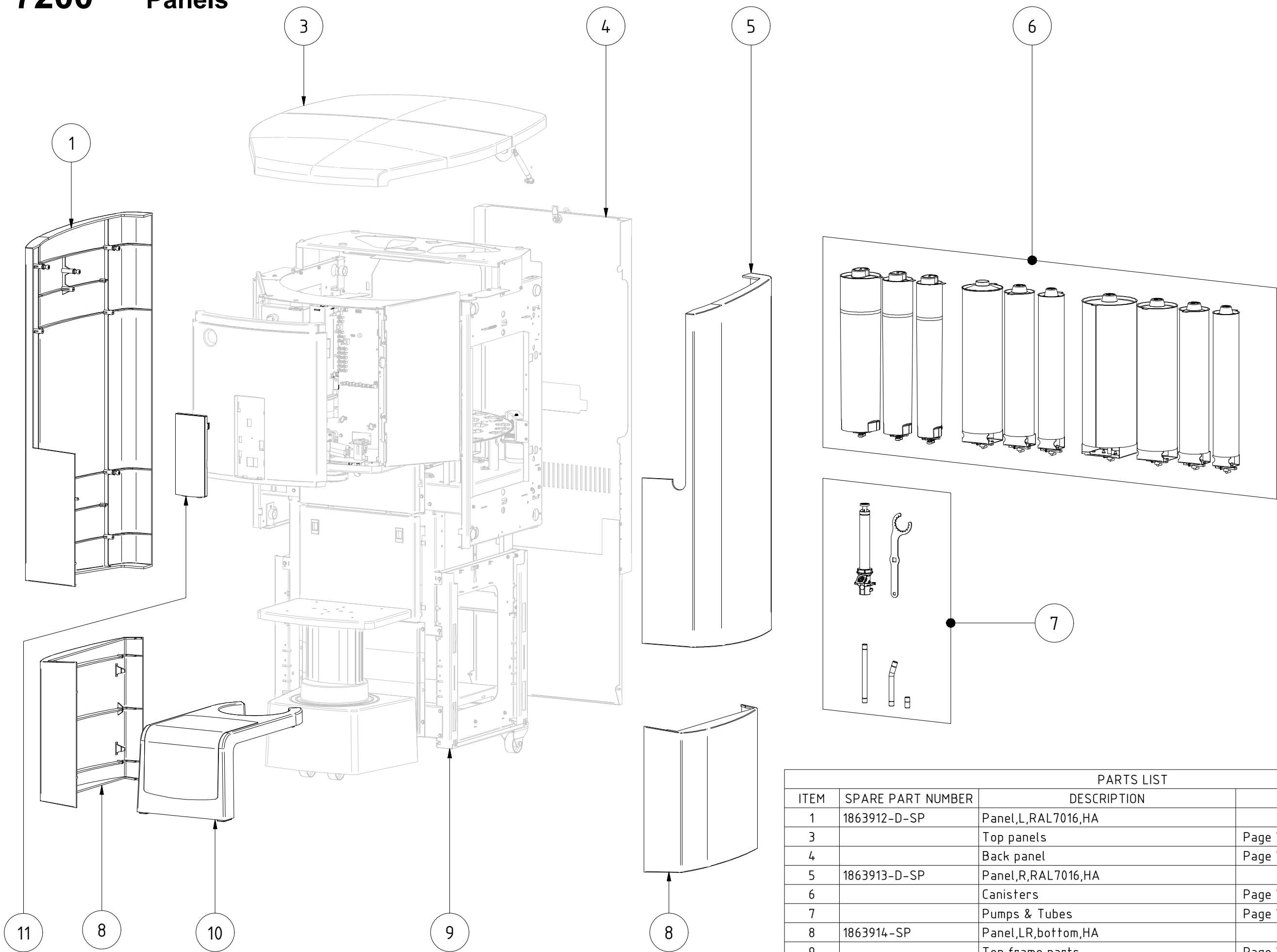
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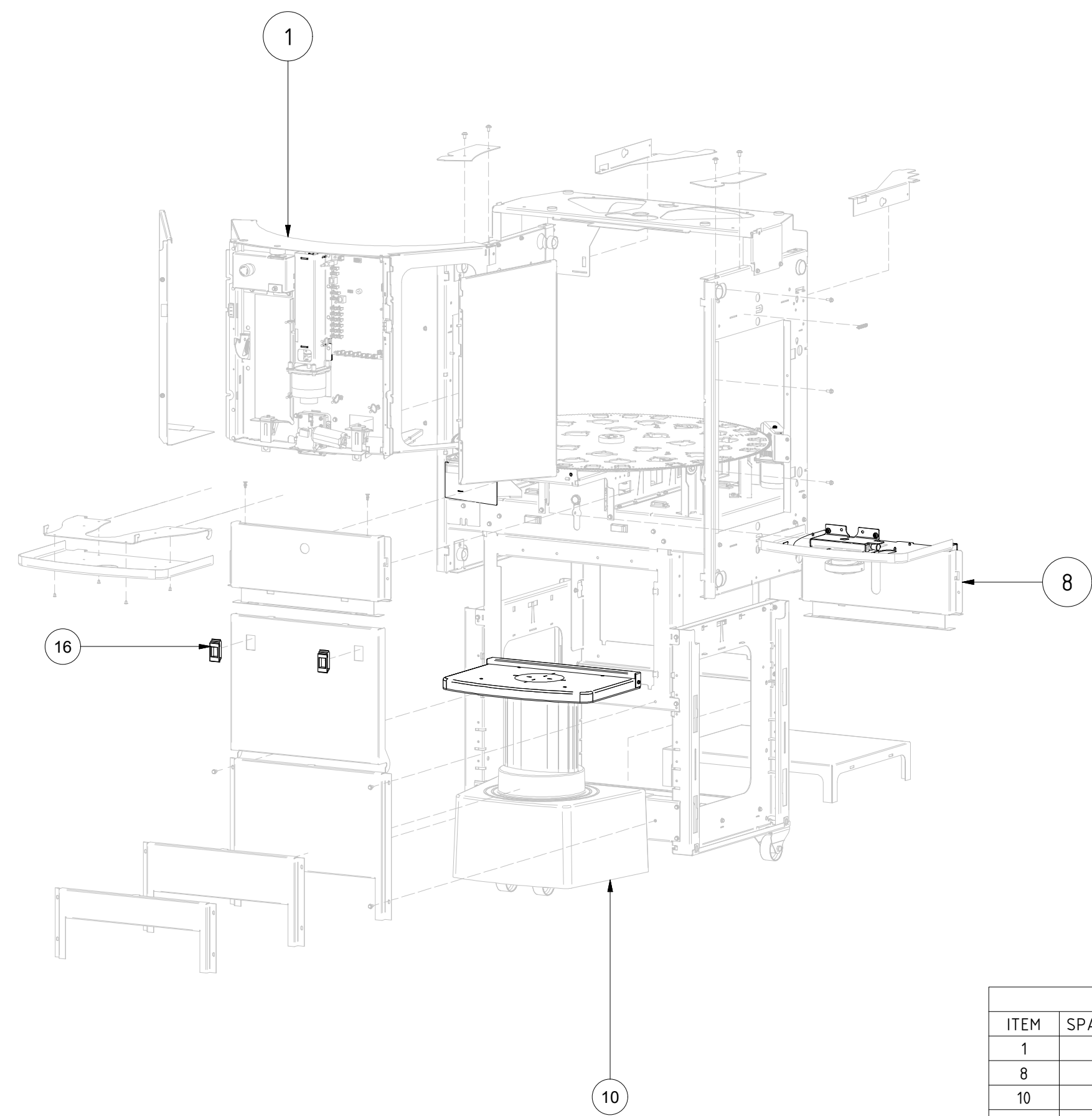
Panels



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1863912-D-SP	Panel,L,RAL7016,HA	
3		Top panels	Page 7202
4		Back panel	Page 7204
5	1863913-D-SP	Panel,R,RAL7016,HA	
6		Canisters	Page 7240
7		Pumps & Tubes	Page 7260
8	1863914-SP	Panel,L,R,bottom,HA	
9		Top frame parts	Page 7201
10	1864480-SP	Step,HA	
11	1818275-SP	Operator display complete	Page 7205

7201

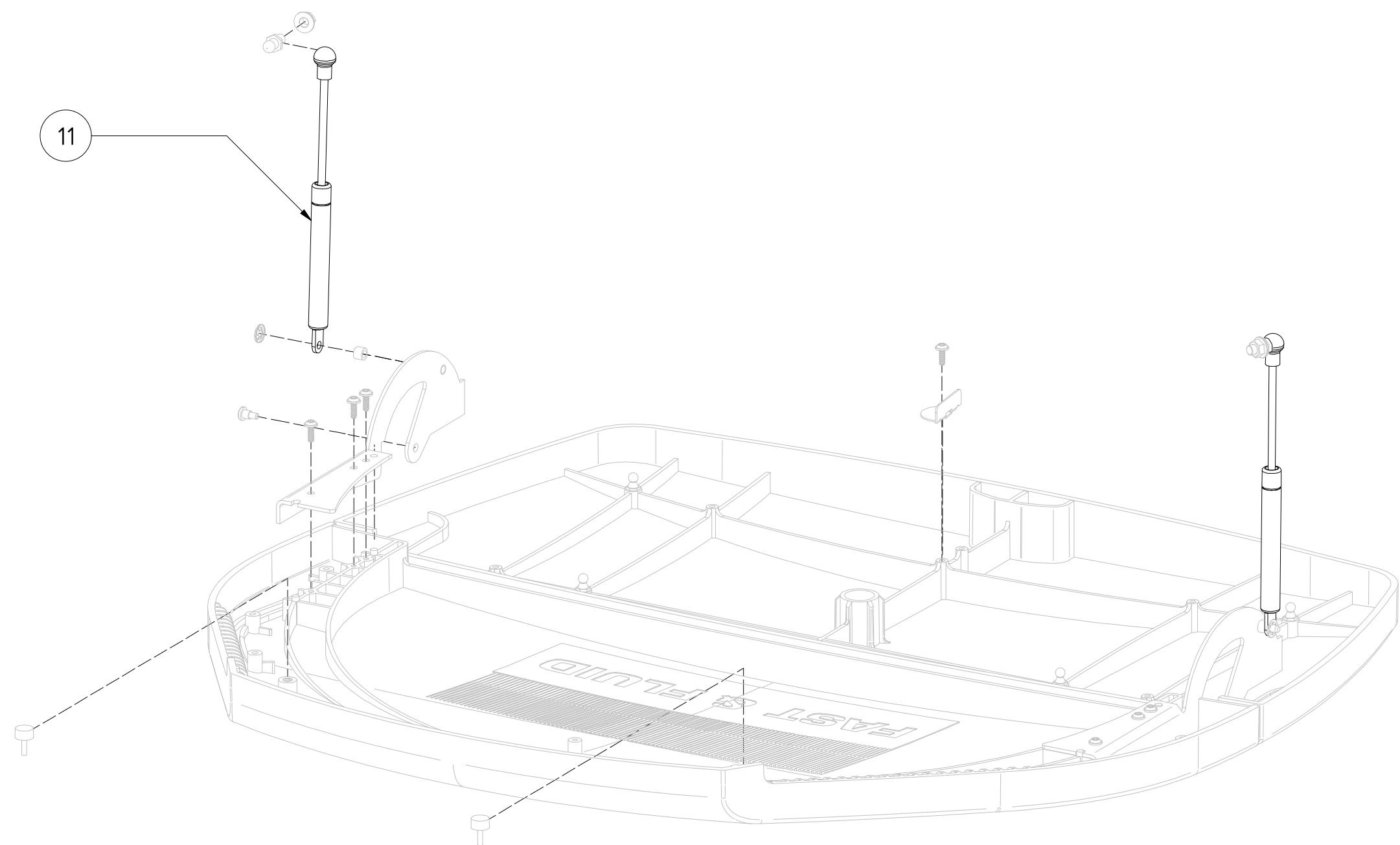
Top frame parts



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1		Mechanica	Page 7220
8		Punch	Page 7271-B
10		Frame	Page 7210
16	1862332-SP	Latch,slide,40-525, 2 pcs	

7202

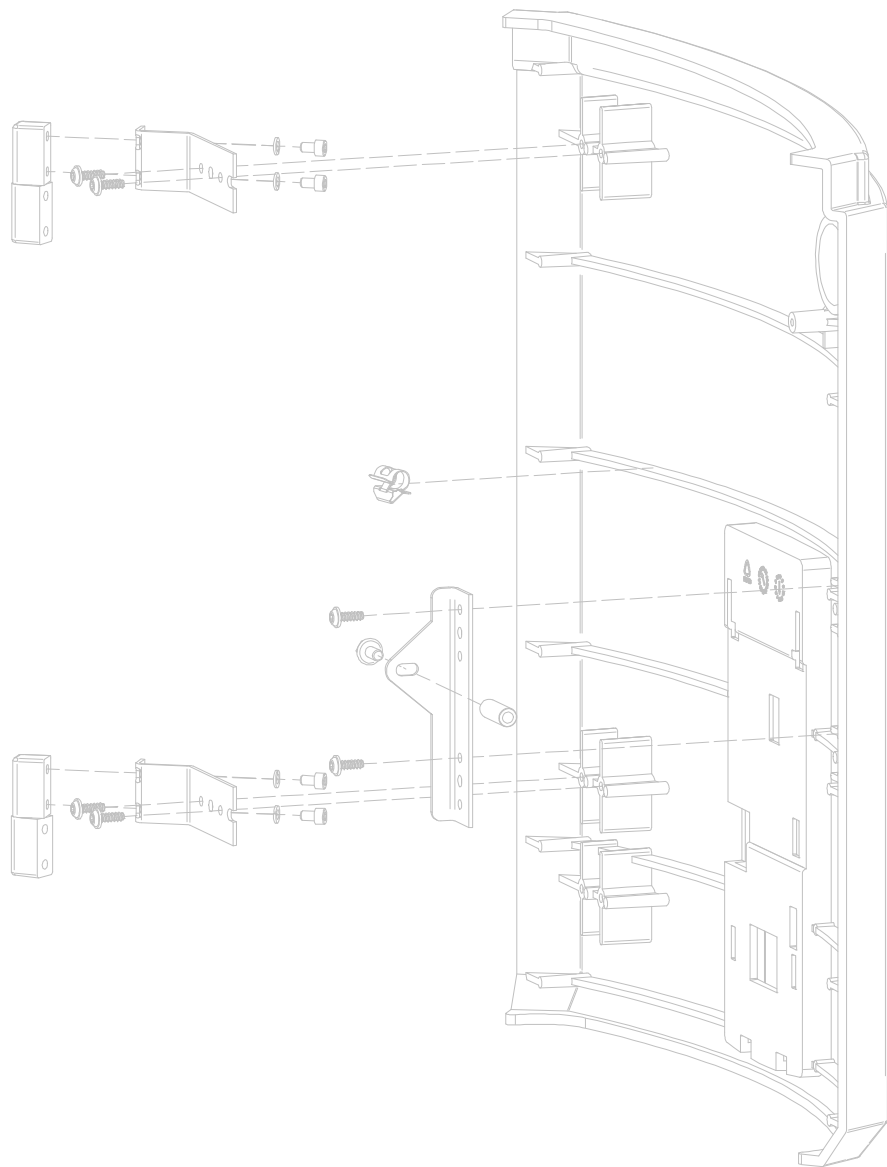
Top panel



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
11	1814.025-SP	Gas-spring,50N,084.9RX,2pcs	

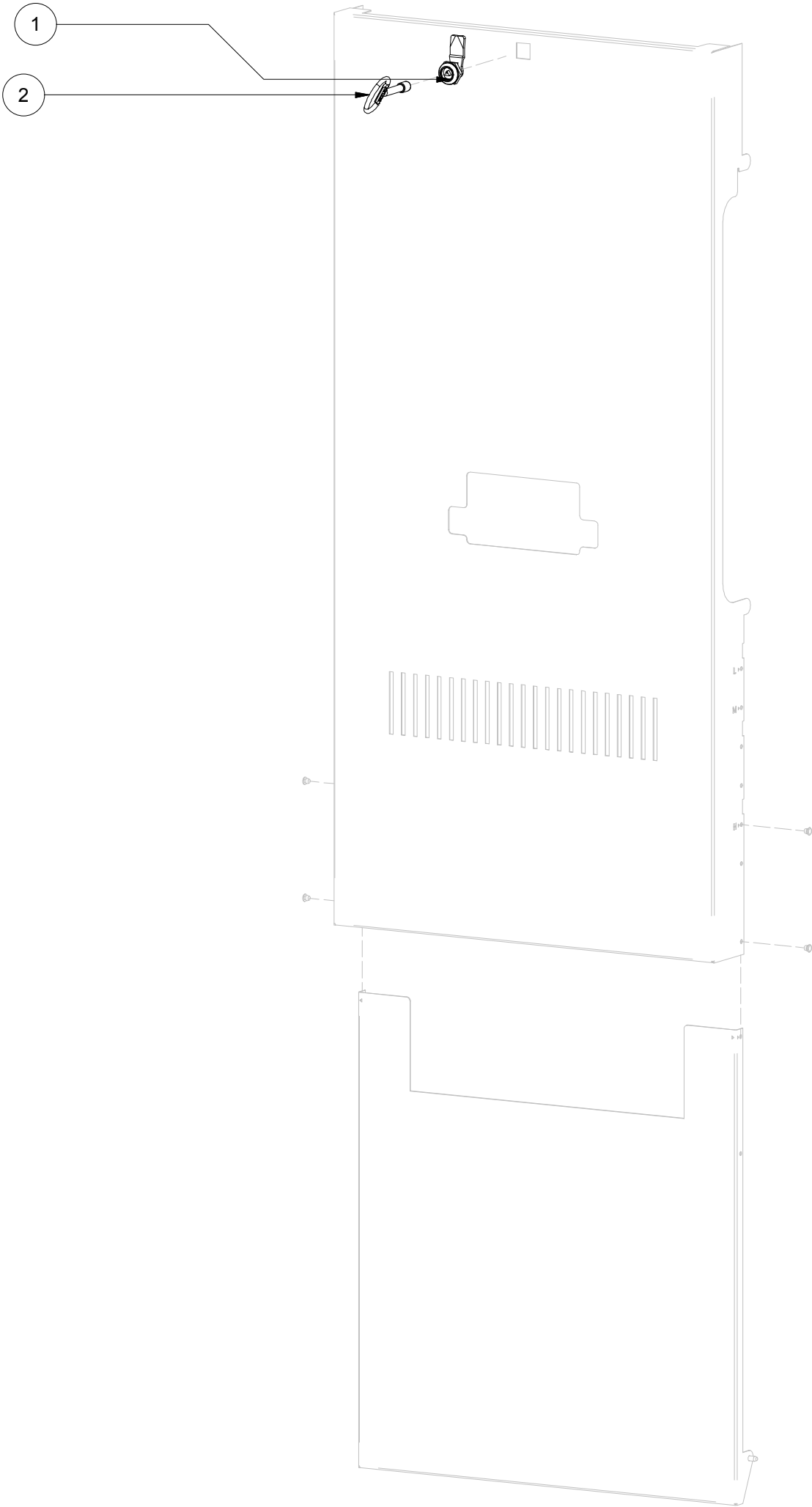
7203

Door panel



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS

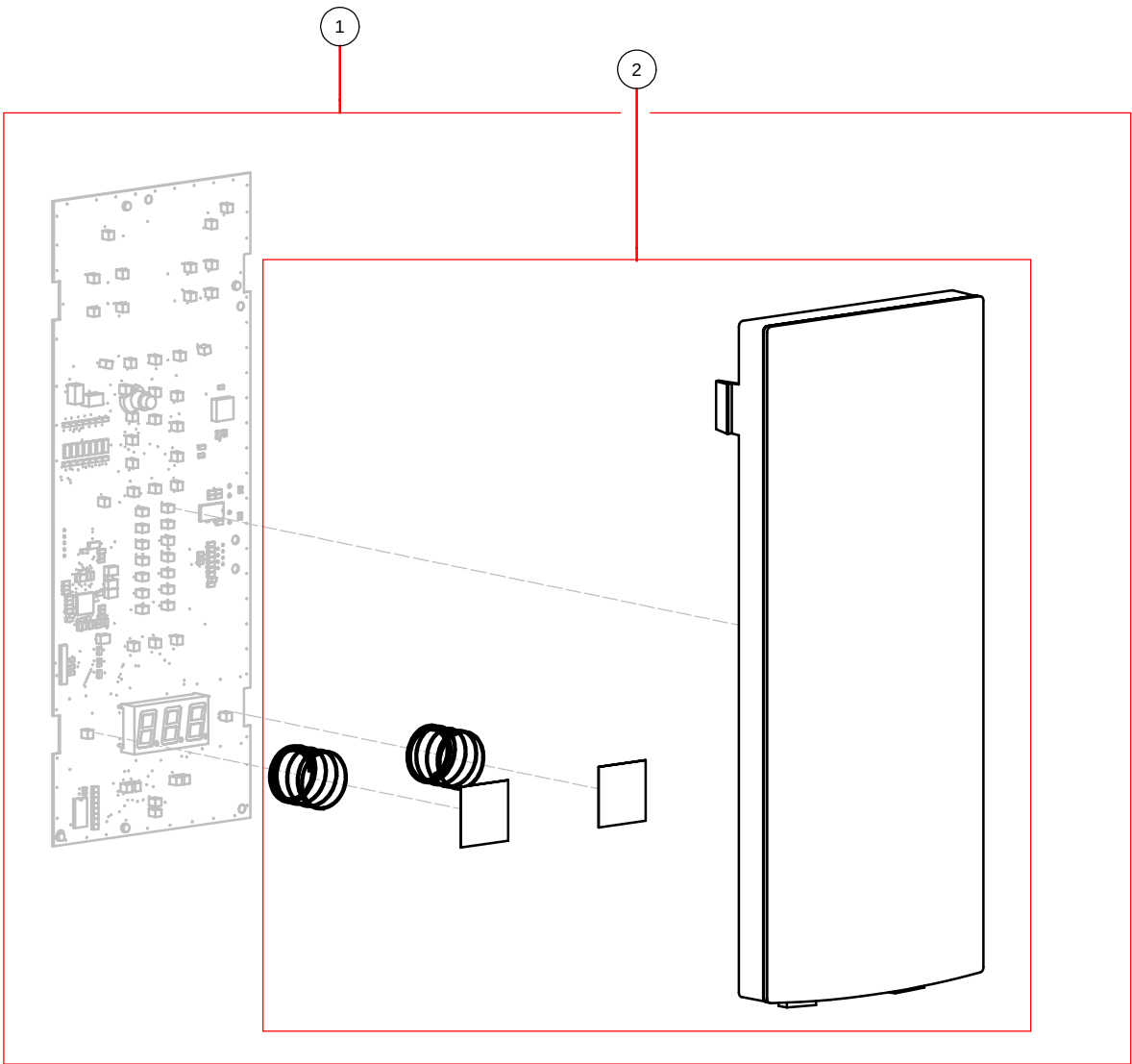
Back panel



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

7205

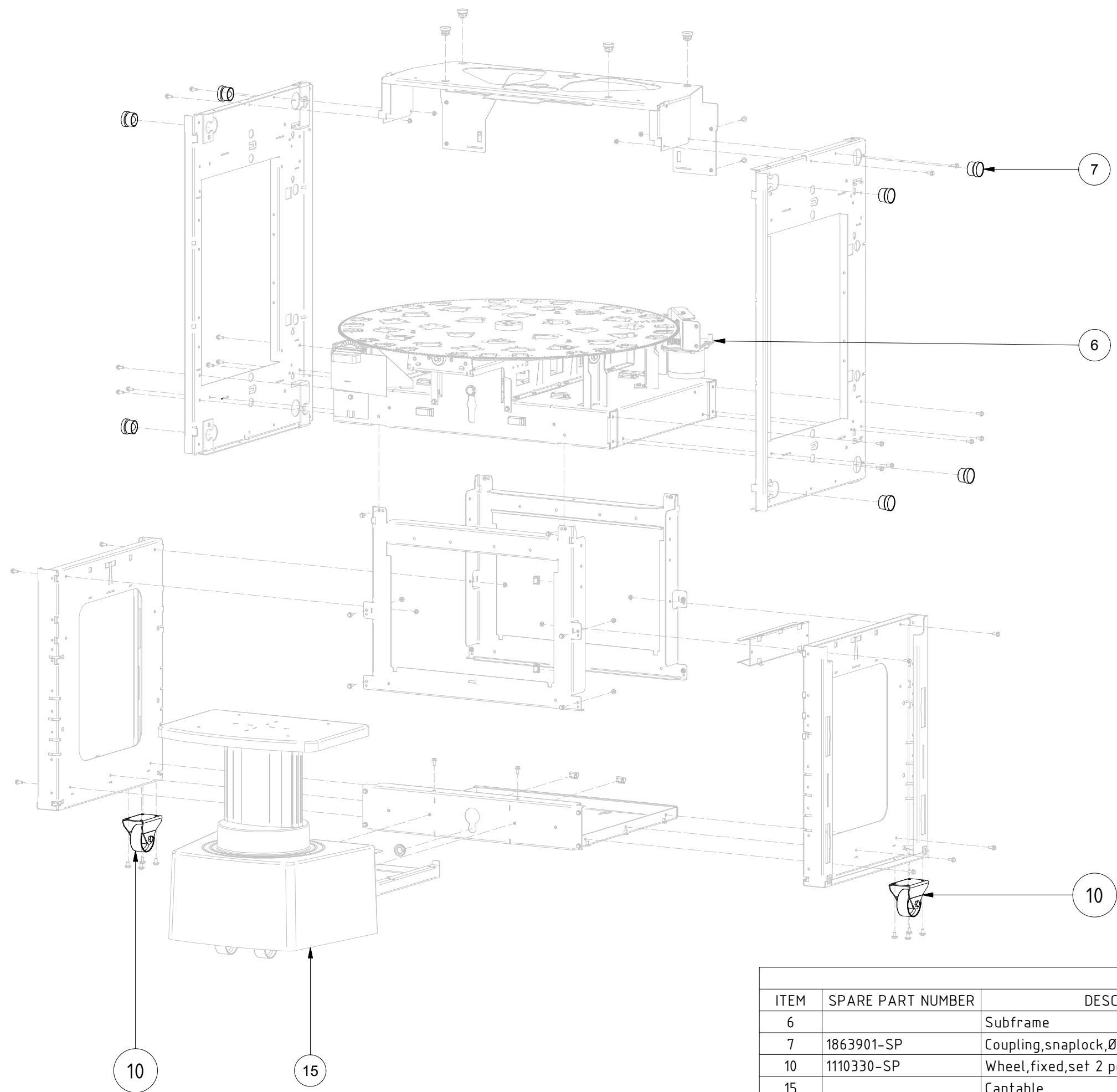
Operator display 1818275-SP



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1818275-SP	Operator display complete	
2	1818272-SP	Operator,display with spacer	

7210

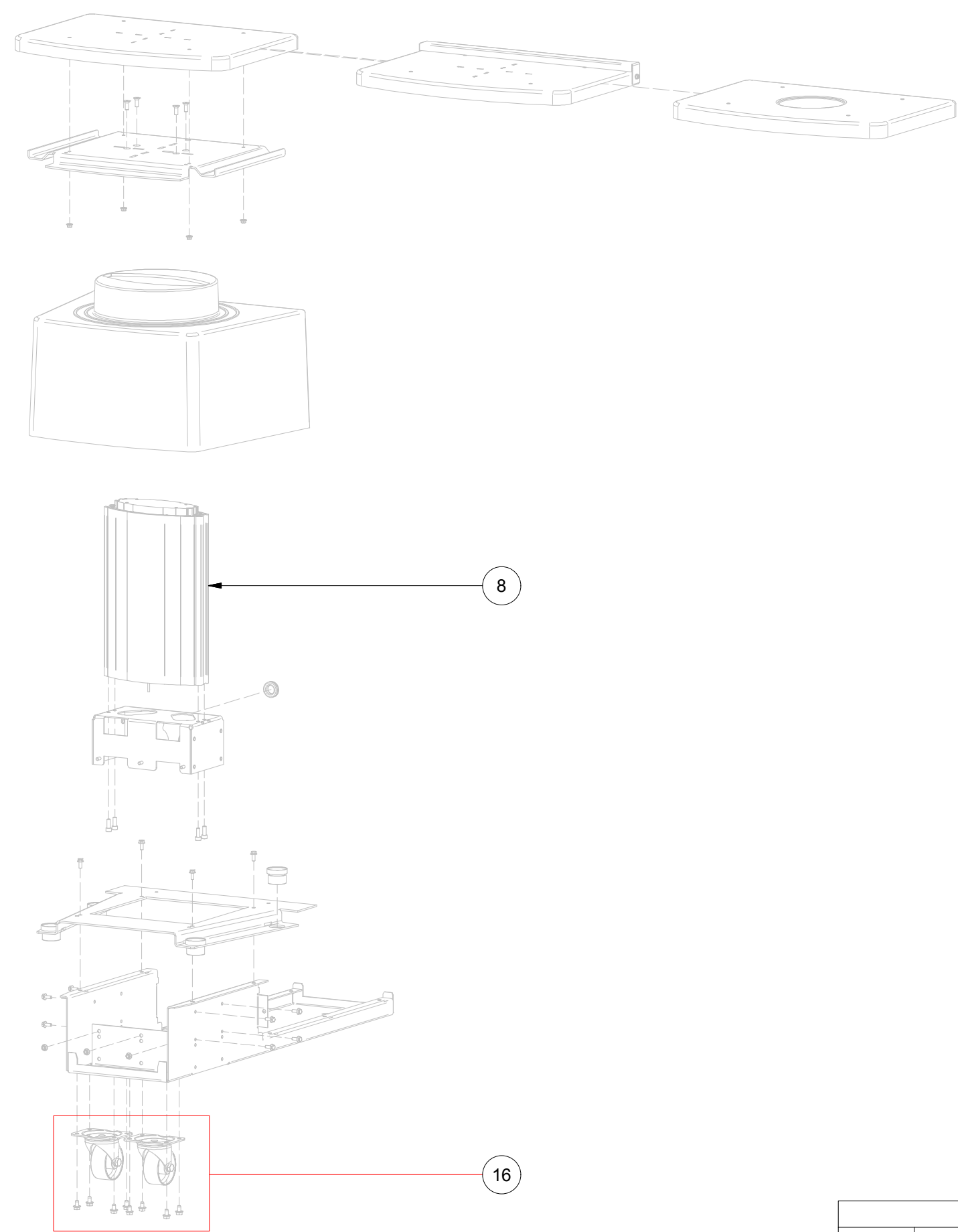
Frame



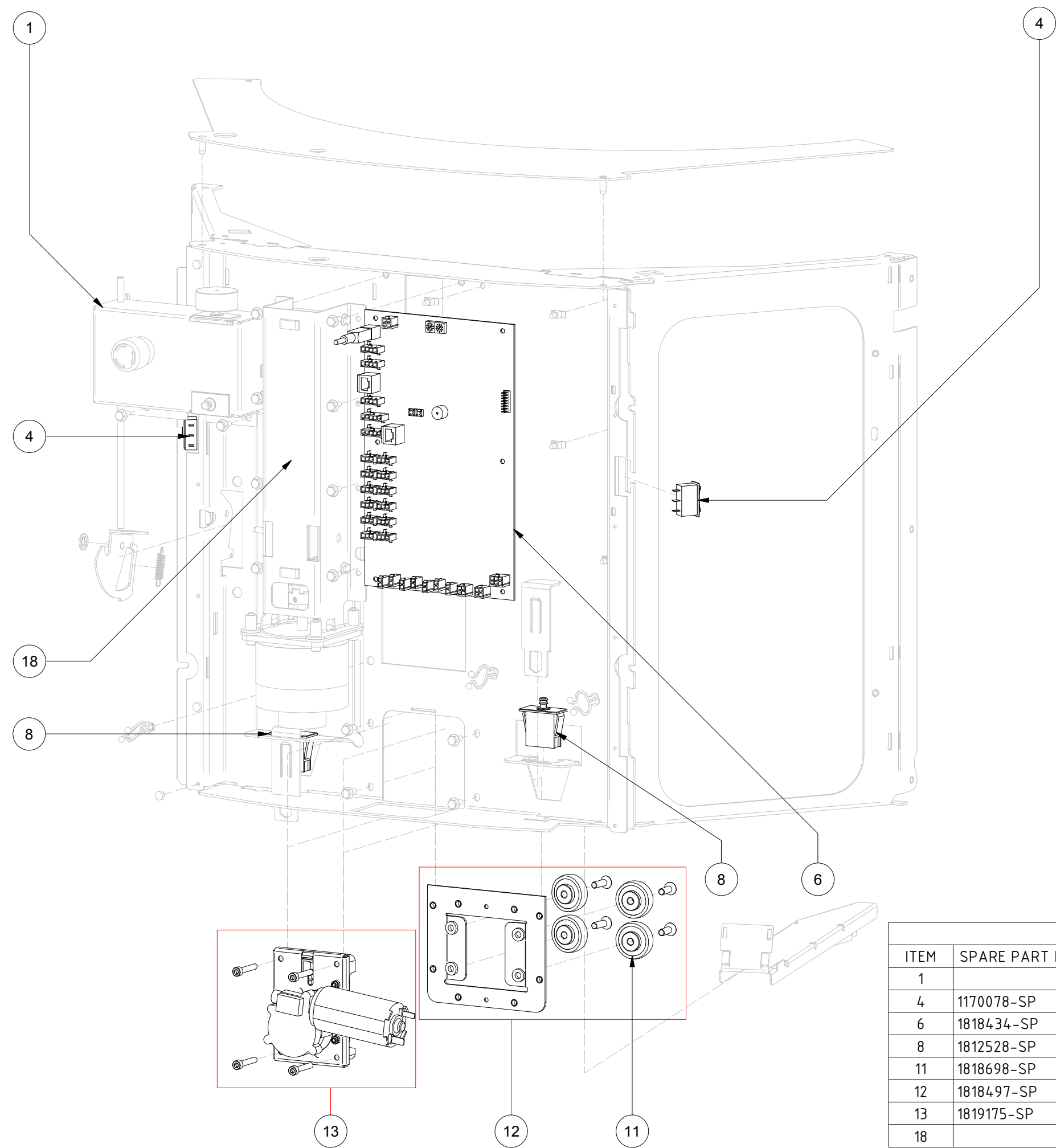
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
6		Subframe	Page 7230
7	1863901-SP	Coupling,snaplock,Ø15,black,4x	
10	1110330-SP	Wheel, fixed,set 2 pcs	
15		Cantable	Page 7213

7213

Cantable



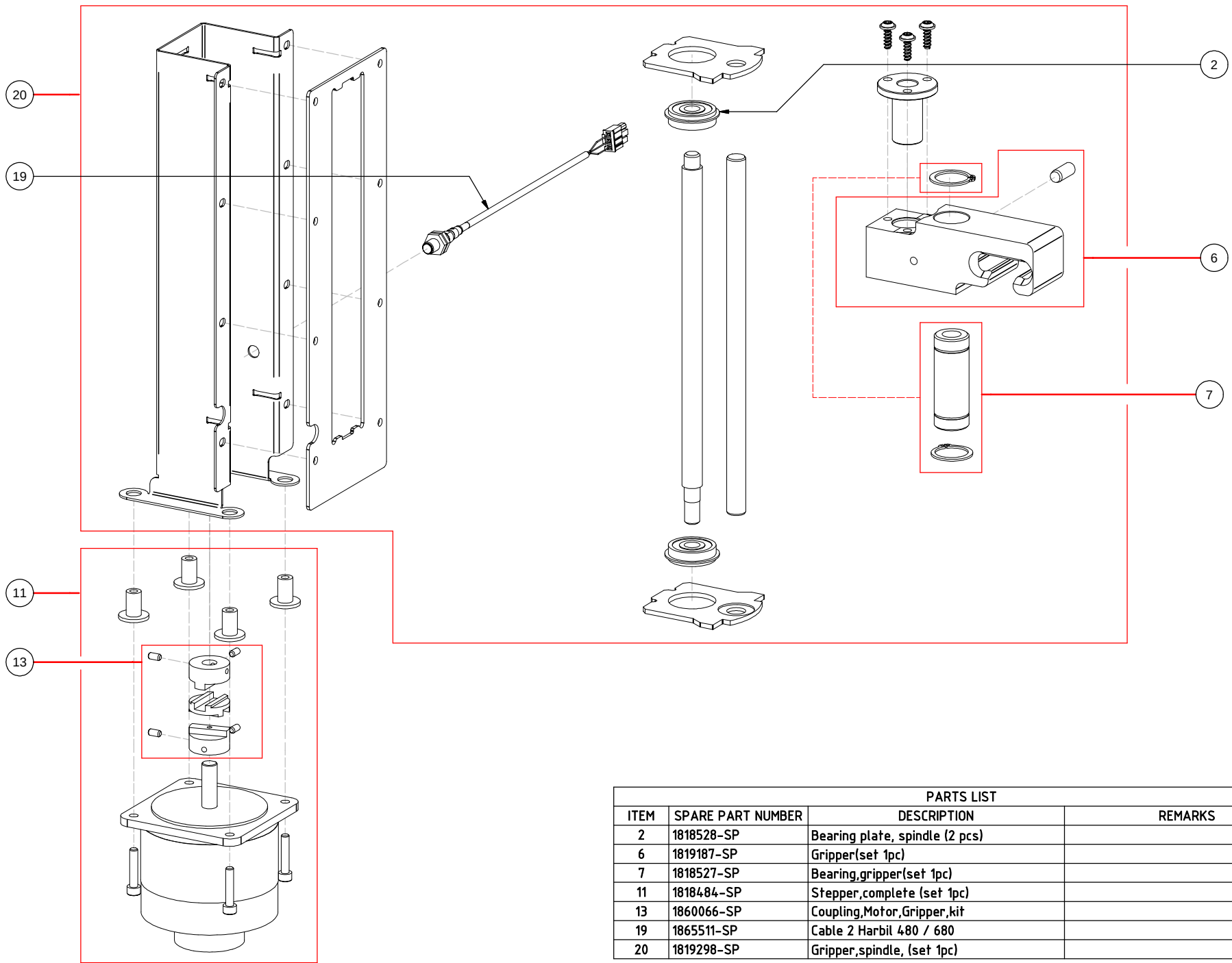
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
8	1862015-SP	Actuator,cantable+ screws,8x	
16	1110340-SP	Wheel,swiveling,set 4 pcs	



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1		Emergency switch	Page 7223
4	1170078-SP	Switch,up/down,single,6A,250V	Part of cable harness 1818997
6	1818434-SP	Controlboard,v5	
8	1812528-SP	Switch,D2D 1100	Part of cable harness 1818997
11	1818698-SP	Wheel,asymmetric,35mm(set 4pcs)	
12	1818497-SP	Bearings,turntable(set 1pc)	
13	1819175-SP	Valve unit compl.NGH(set 1pc)	Page 7222
18		Gripper,spindle	Page 7221

7221

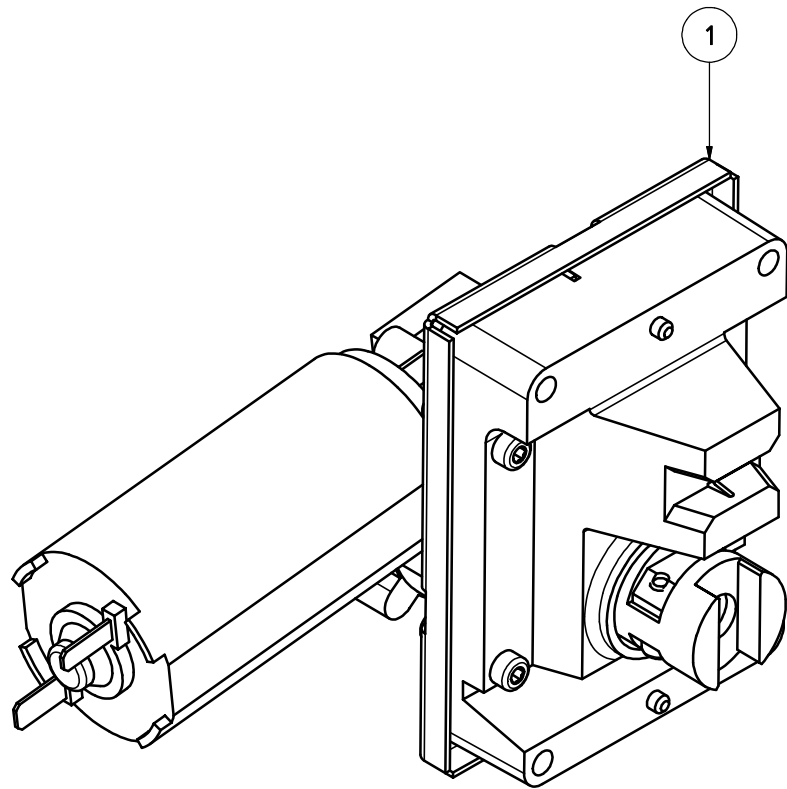
Gripper,spindle



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
2	1818528-SP	Bearing plate, spindle (2 pcs)	
6	1819187-SP	Gripper(set 1pc)	
7	1818527-SP	Bearing,gripper(set 1pc)	
11	1818484-SP	Stepper,complete (set 1pc)	
13	1860066-SP	Coupling,Motor,Gripper,kit	
19	1865511-SP	Cable 2 Harbil 480 / 680	
20	1819298-SP	Gripper,spindle, (set 1pc)	

7222

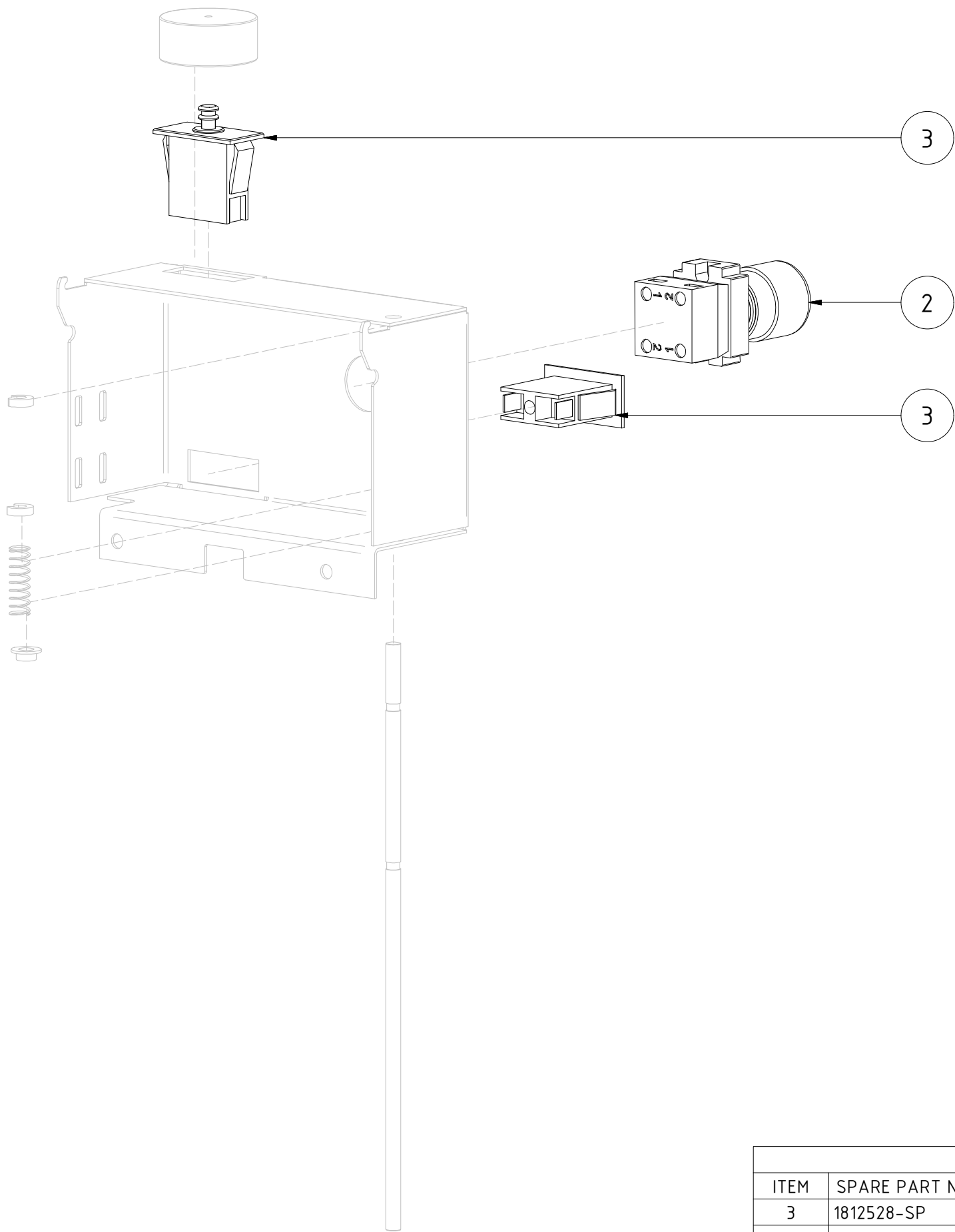
Valve motor unit 1819175-SP



PARTS LIST				
ITEM	PART NUMBER	DESCRIPTION	REMARKS	QTY
1	1819172-SP	Valve unit complete (set 1pc)		1

7223

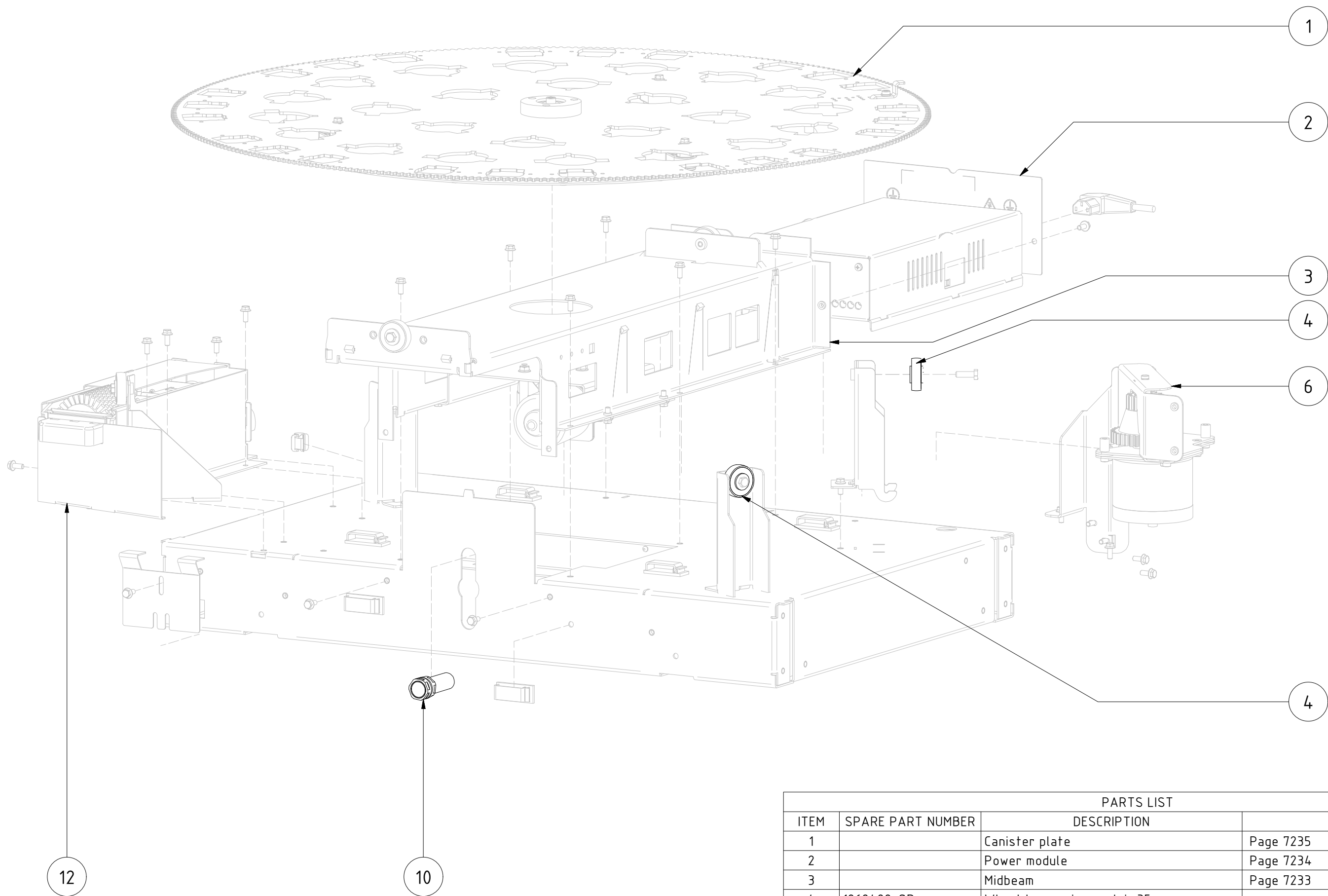
Emergency switch



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
3	1812528-SP	Switch,D2D 1100	Part of cable harness 1818997
2	1864937-SP	Emergency,switch,complete	Part of cable harness 1818997

7230

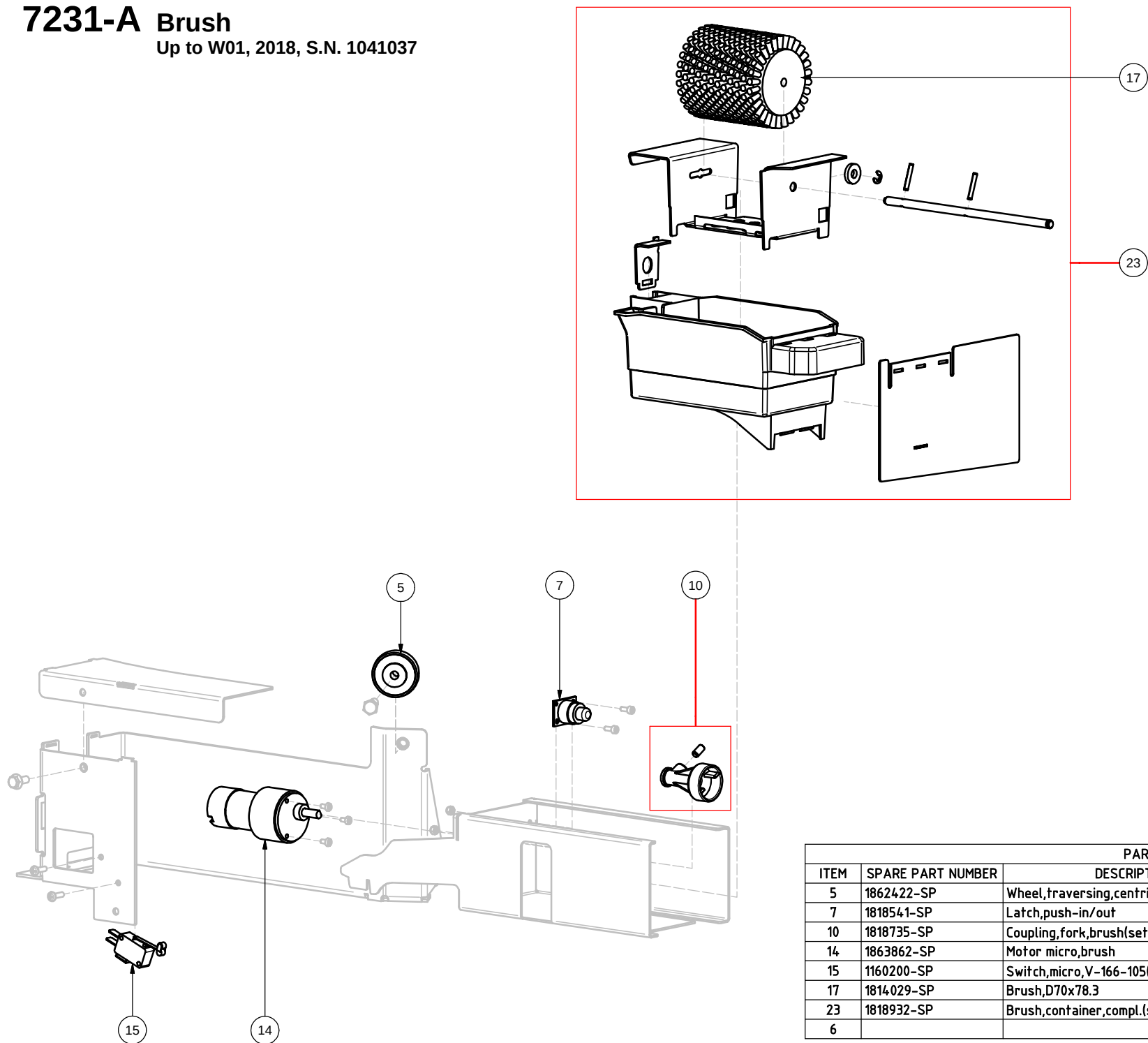
Subframe



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1		Canister plate	Page 7235
2		Power module	Page 7234
3		Midbeam	Page 7233
4	1862422-SP	Wheel, traversing, centric, 35mm	
6	1819173-SP	Table drive (set 1pc)	Page 7232
10	1861975-SP	Sensor1, HA	Part of cable harness 1818997
12		Brush	Page 7231

7231-A Brush

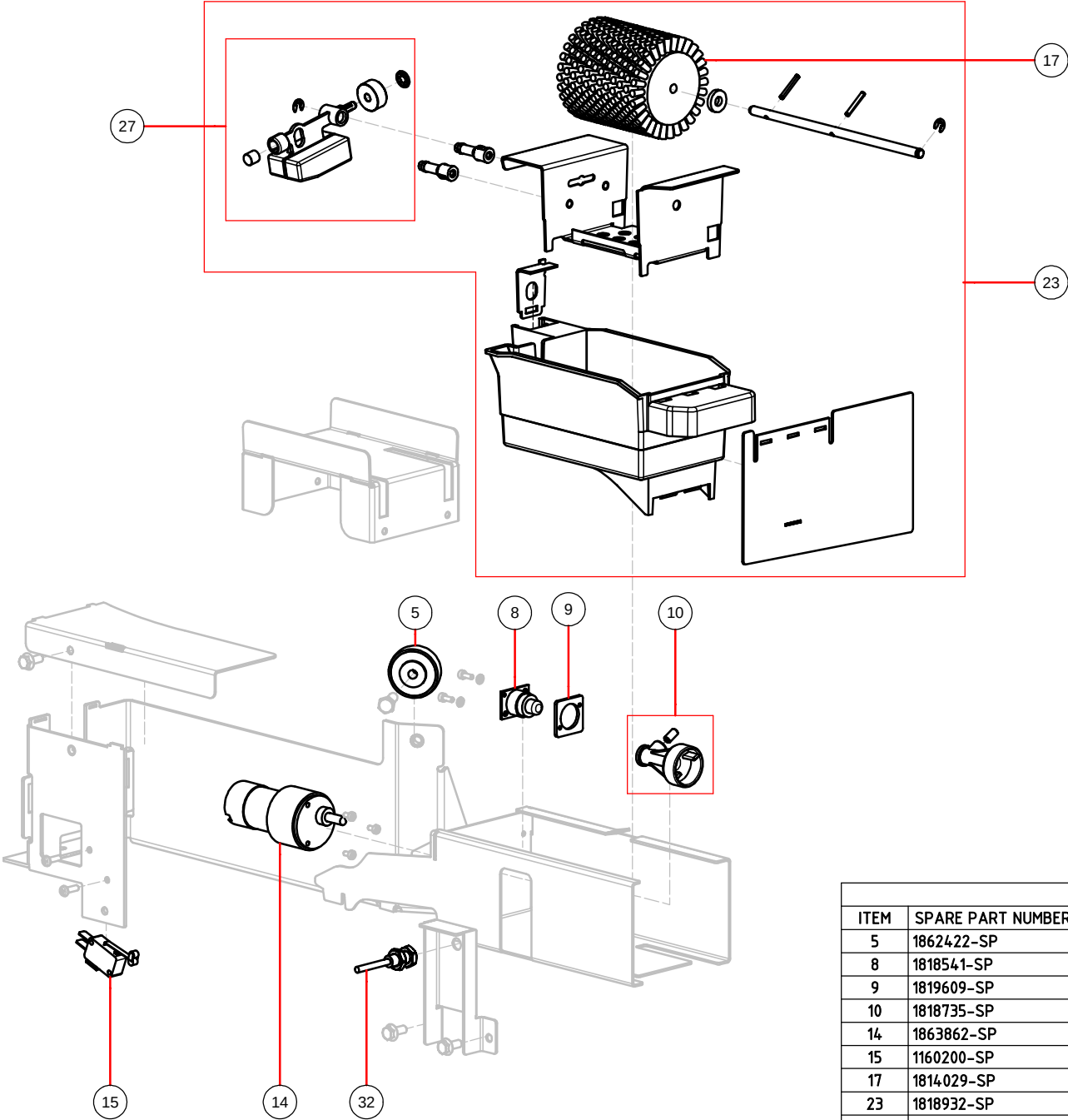
Up to W01, 2018, S.N. 1041037



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
5	1862422-SP	Wheel, traversing, centric, 35mm	
7	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	
23	1818932-SP	Brush, container, compl. (set 1pc)	
6			

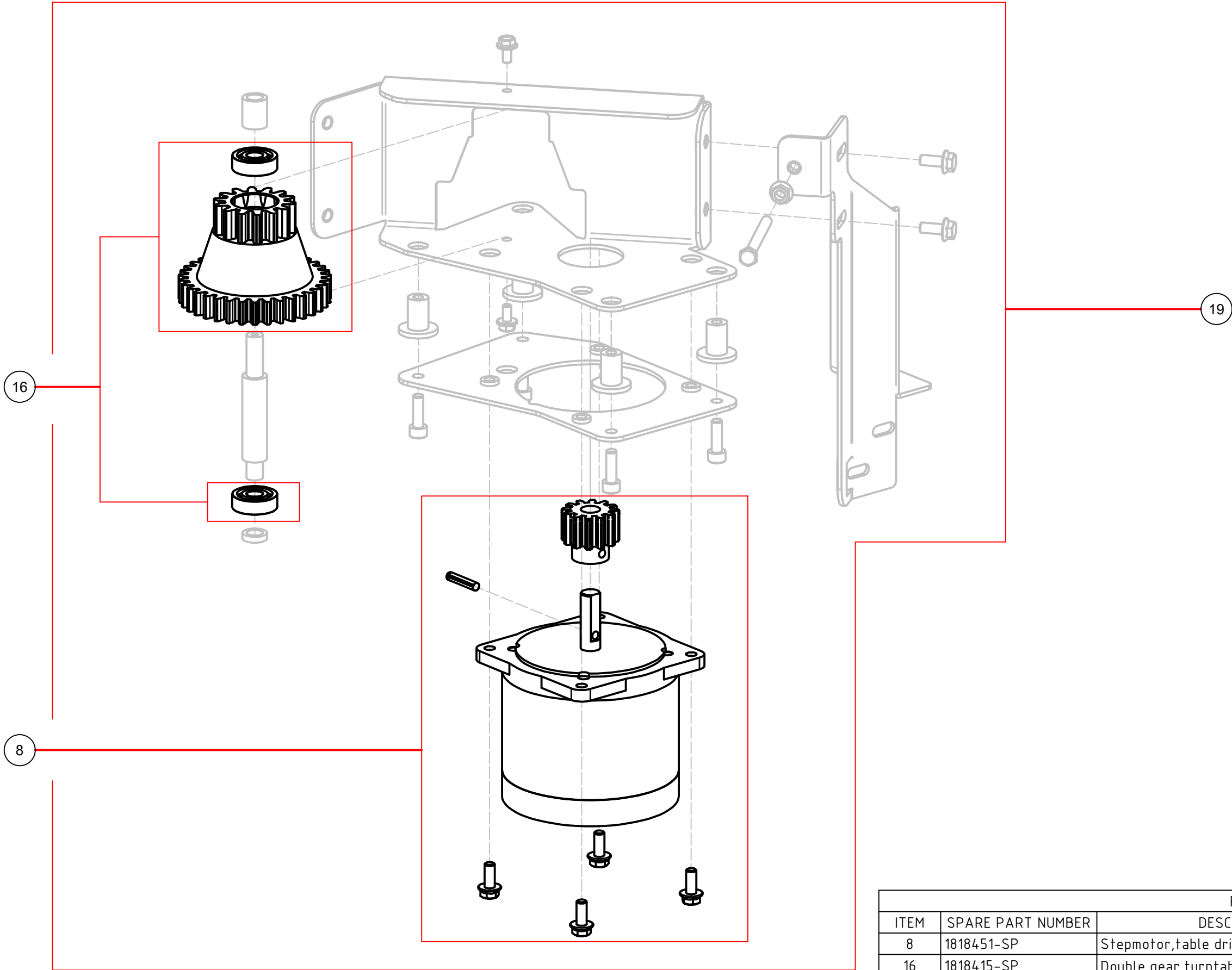
7231-B Brush

From W01, 2018, S.N. 1041038



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
5	1862422-SP	Wheel, traversing, centric, 35mm	
8	1818541-SP	Latch, push-in/out	
9	1819609-SP	Retainer, latch, brush	
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	
23	1818932-SP	Brush, container, compl. (set 1pc)	
27	1819292-SP	Float, level, brush	OPTIONAL
32	1865512-SP	Cable 9 brushlevel	OPTIONAL

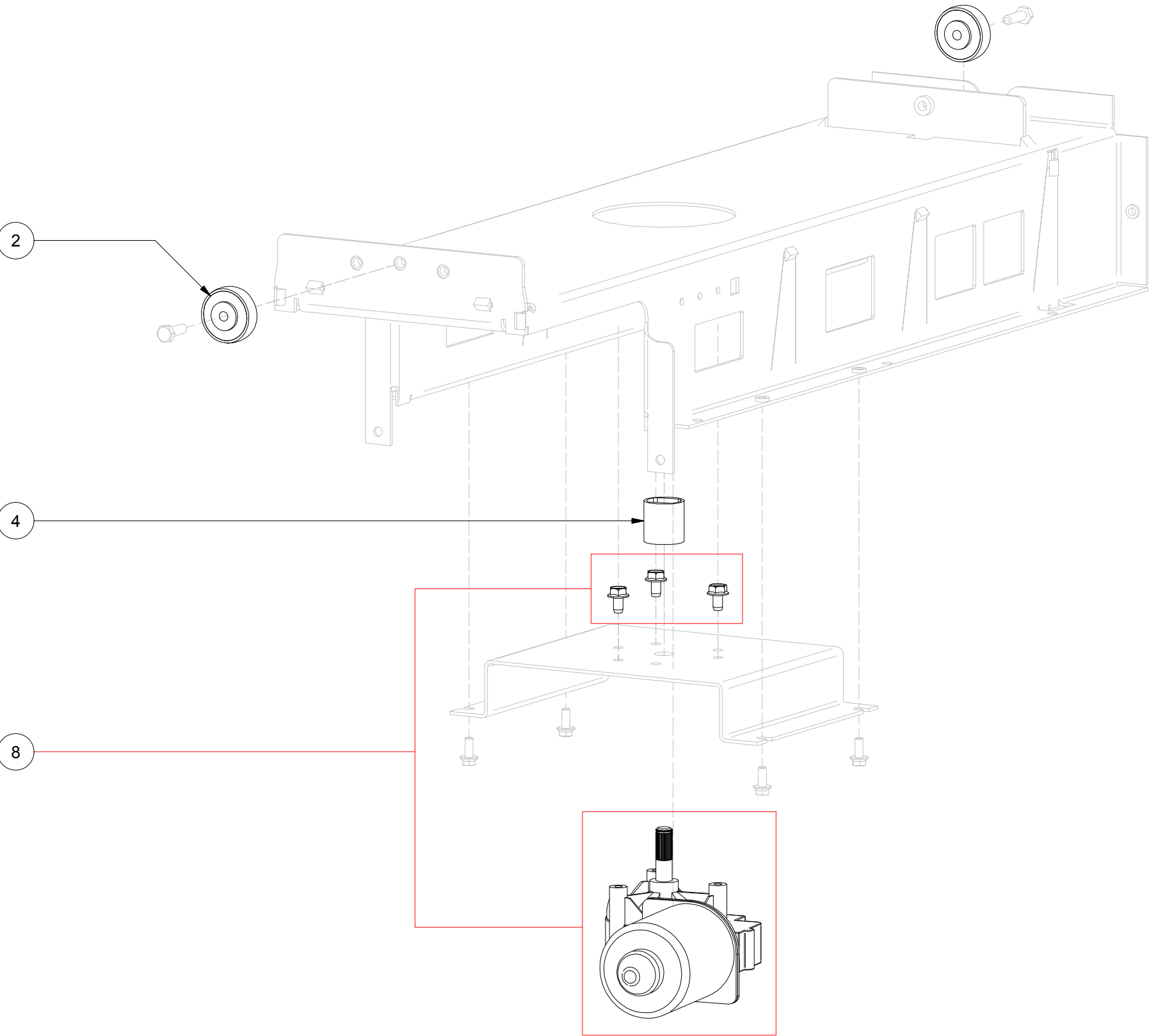
7232-B Table drive motor unit 1819173-SP



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
8	1818451-SP	Stepmotor,table drive incl.gear	
16	1818415-SP	Double gear,turntable(set 1pc)	
19	1819173-SP	Table drive (set 1pc)	

7233

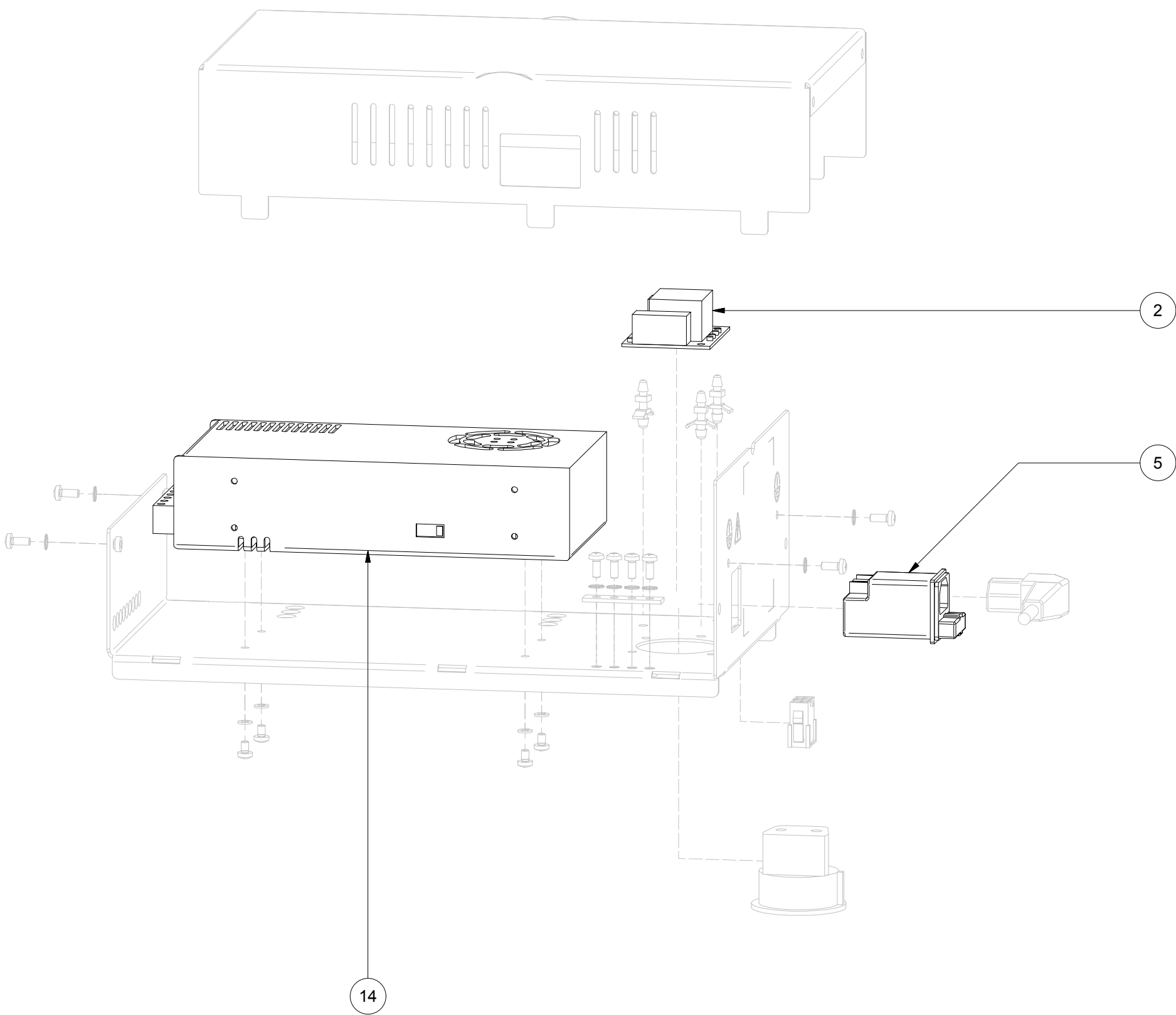
Midbeam



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
2	1862422-SP	Wheel, traversing, centric, 35mm	
4	1813254-SP	Coupling, motor, subframe, HA	
8	1863708-SP	Motor 404.938	

7234

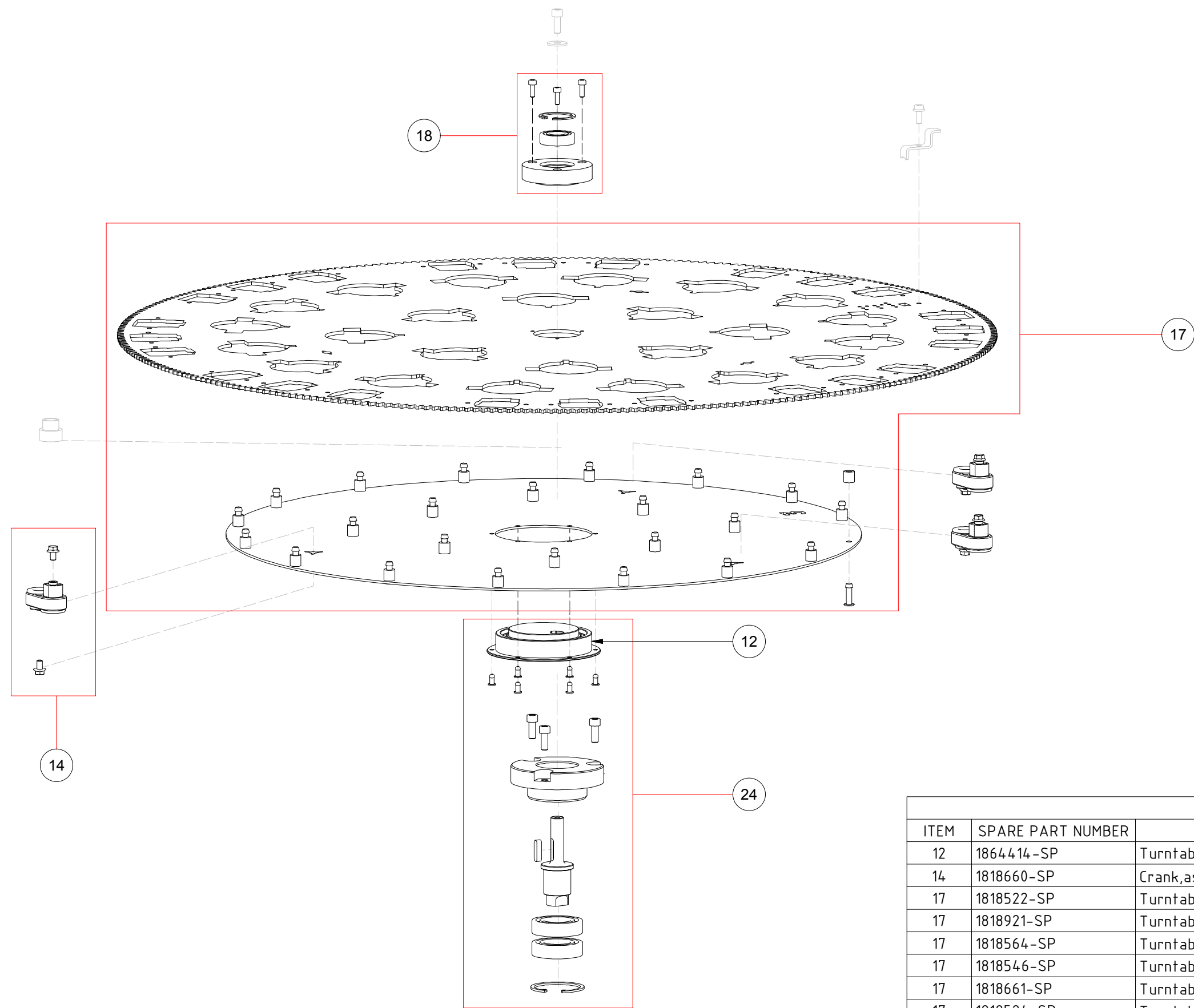
Power module 1818222-SP



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	

7235

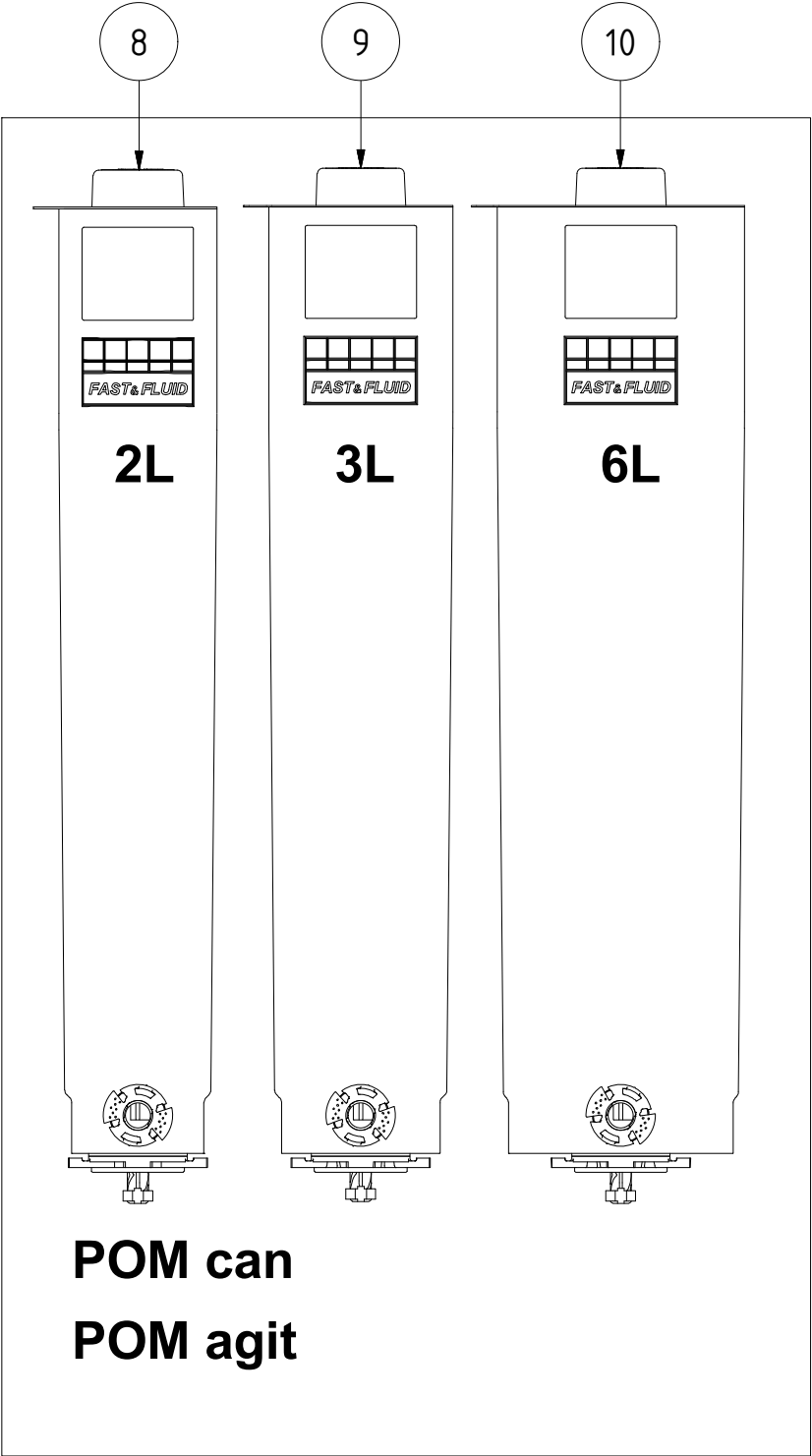
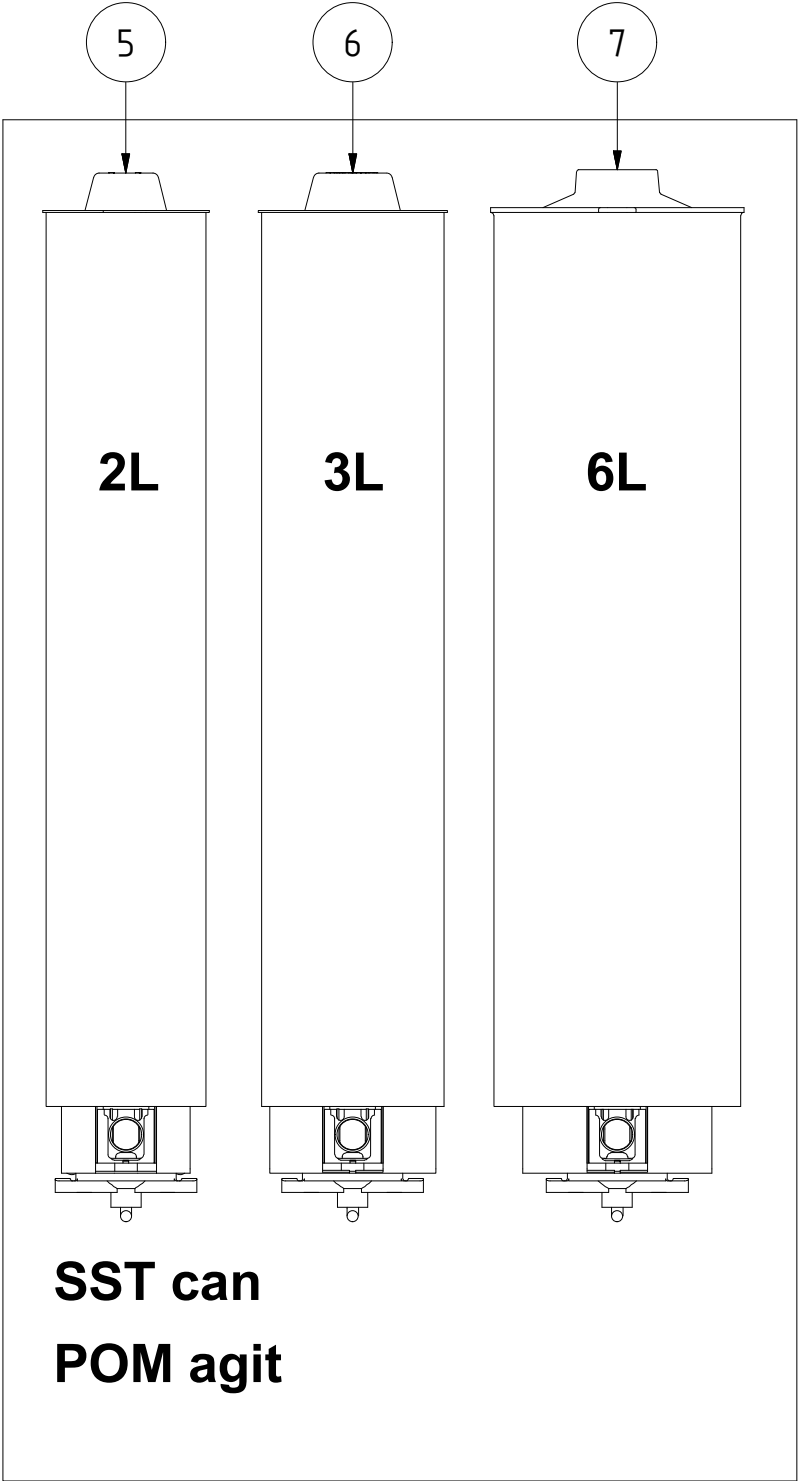
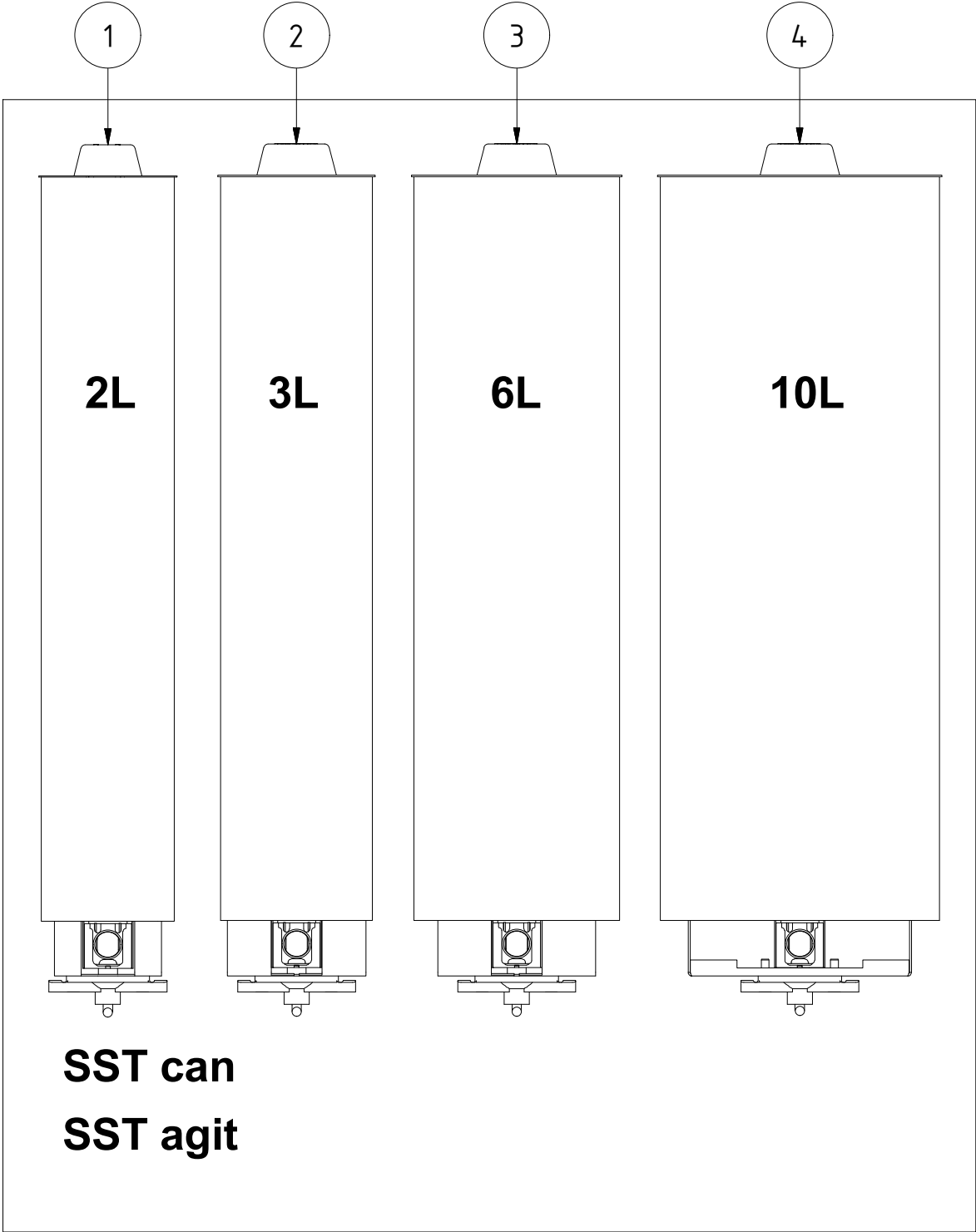
Canisterplates



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
12	1864414-SP	Turntable bearing assembly	
14	1818660-SP	Crank,assy (set 3pcs)	
17	1818522-SP	Turntable,(03)+agit.plate,NGH	
17	1818921-SP	Turntable,(05)+agit.plate,NGH	
17	1818564-SP	Turntable,(09)+agit.plate,NGH	
17	1818546-SP	Turntable,(10)+agit.plate,NGH	
17	1818661-SP	Turntable,(12)+agit.plate,NGH	
17	1818524-SP	Turntable,(13)+agit.plate,NGH	
17	1818923-SP	Turntable,(16)+agit.plate,NGH	
18	1818753-SP	Bearing,hous,agitation crank,NGH	
24	1819170-SP	Crank,turntable,compl(set 1pc)	

7240

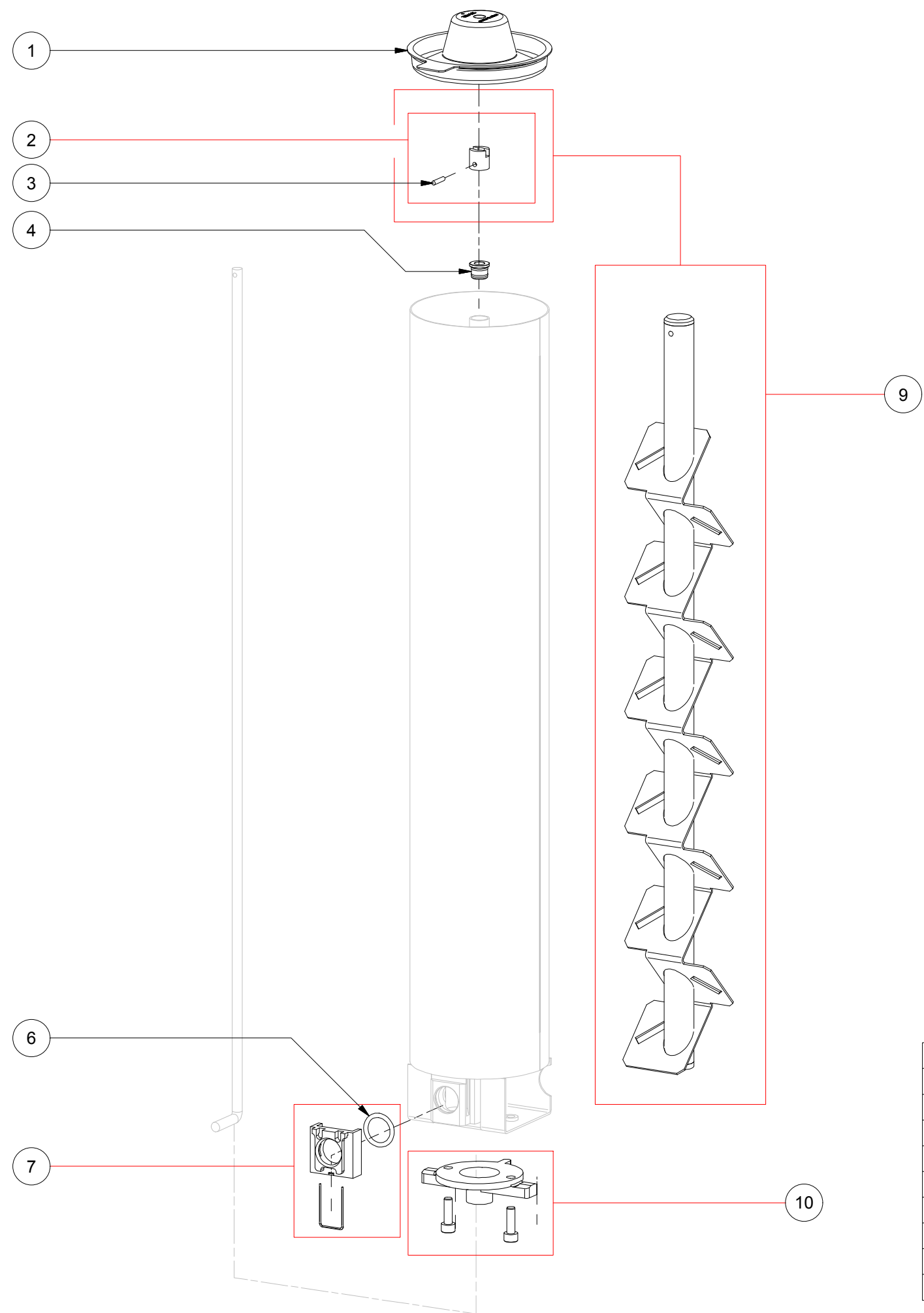
Canisters



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1814147-SP	2L,SST can,std,1ex,SST agit	Page 7241
2	1863215-SP	3L,SST can,std,1ex,SST agit	Page 7242
3	1863216-SP	6L,SST can,std,1ex,SST agit	Page 7243
4	1810599-SP	10L,SST can,std,1ex,SST agit	Page 7244
5	1814988-SP	2L,SST can,std,1ex,POM agit	Page 7245
6	1809888-SP	3L,SST can,std,1ex,POM agit	Page 7246
7	1810596-SP	6L,SST can,std,1ex,POM agit	Page 7247
8	1865010-SP	2L,POM can,std,1ex,POM agit	Page 7248
9	1865011-SP	3L,POM can,std,1ex,POM agit	Page 7249
10	1865012-SP	6L,POM can,std,1ex,POM agit	Page 7250

7241

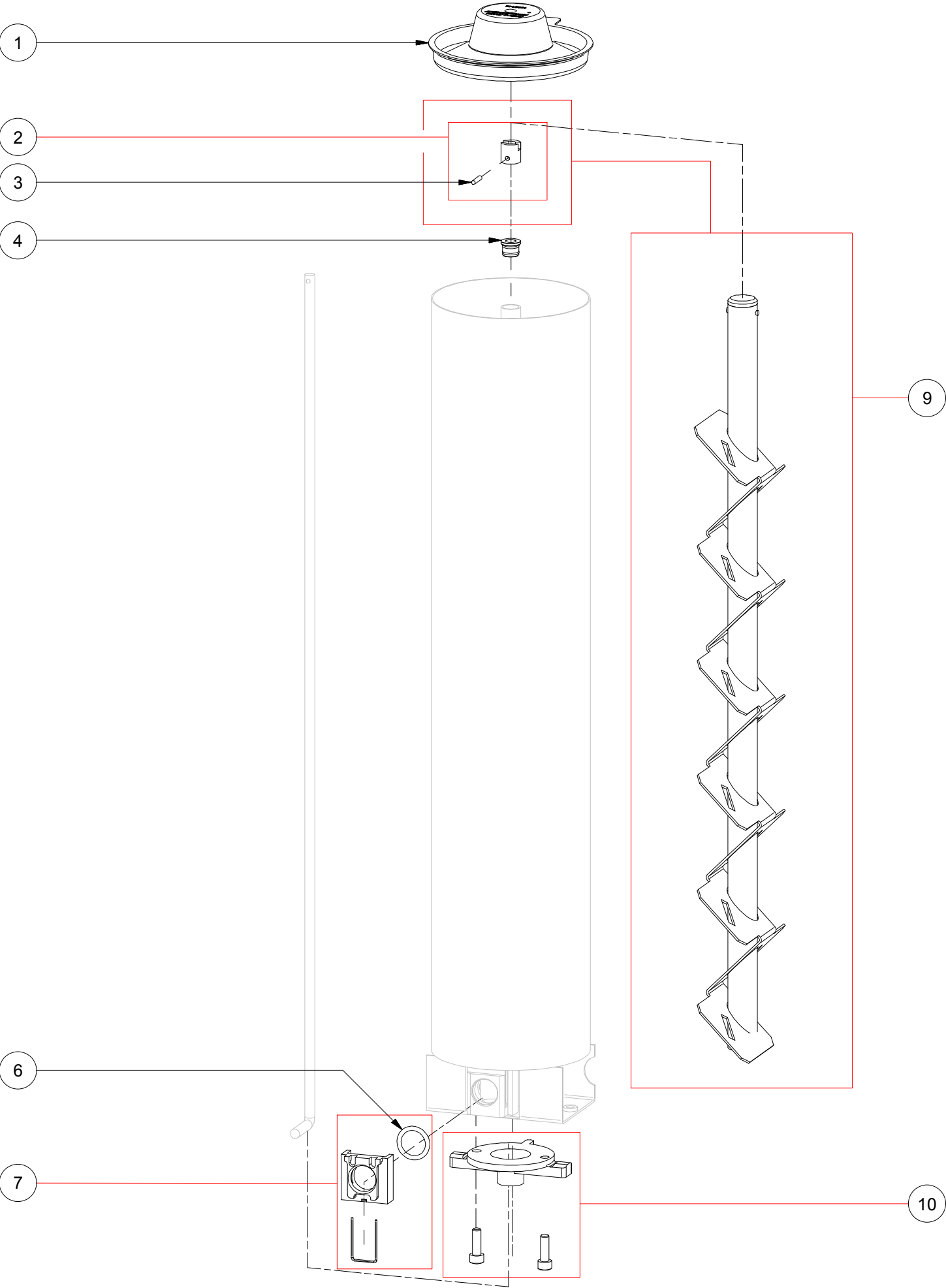
2L,SST can,1ex,SST agit 1814147-SP



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1802502-SP	Lid POM,2L 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	1814153-SP	Agit SST, 2L SST can	
10	1816106-SP	Cap,bottom,sst can with screws	

7242

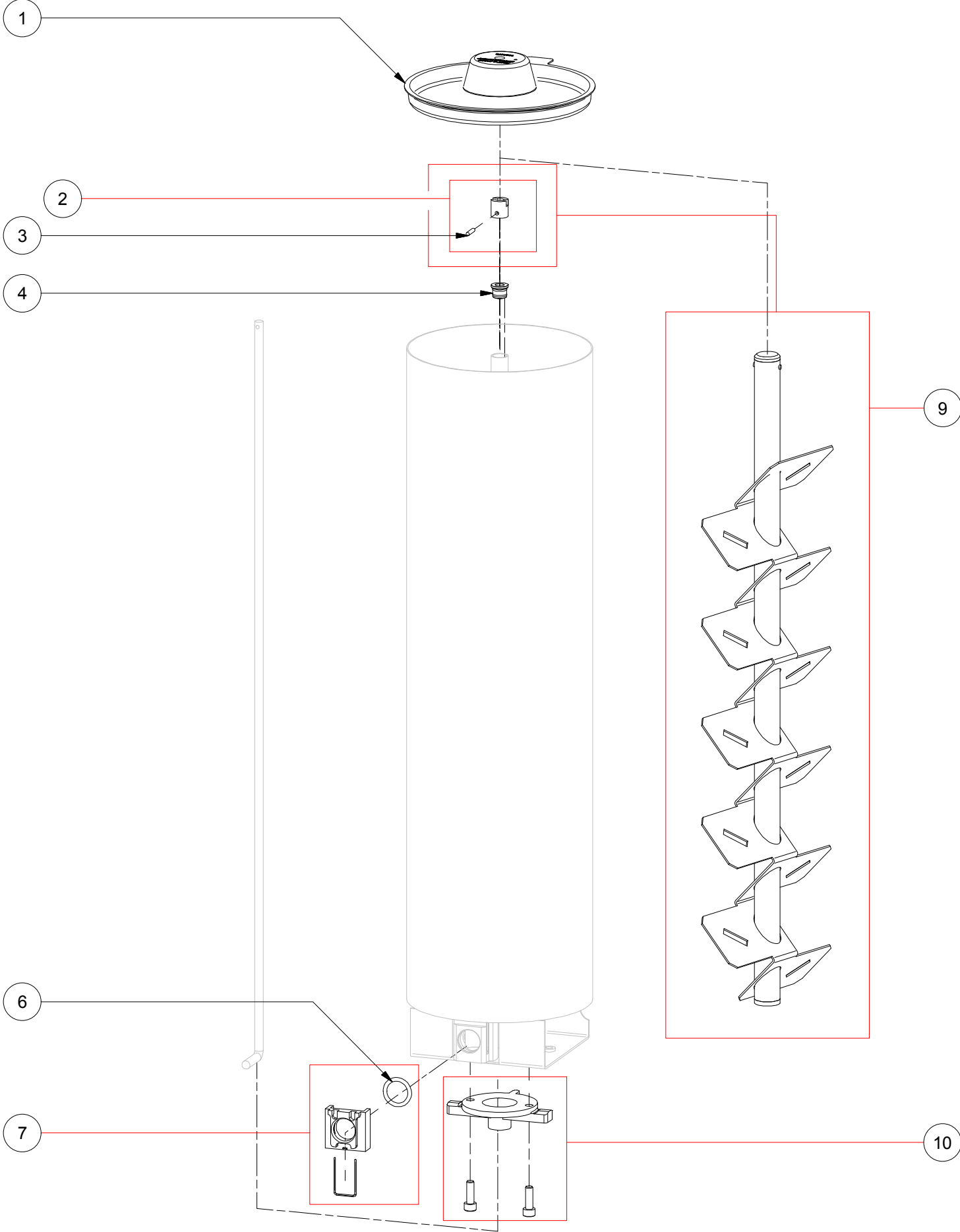
3L,SST can,1ex,SST agit 1863215-SP



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	

7243

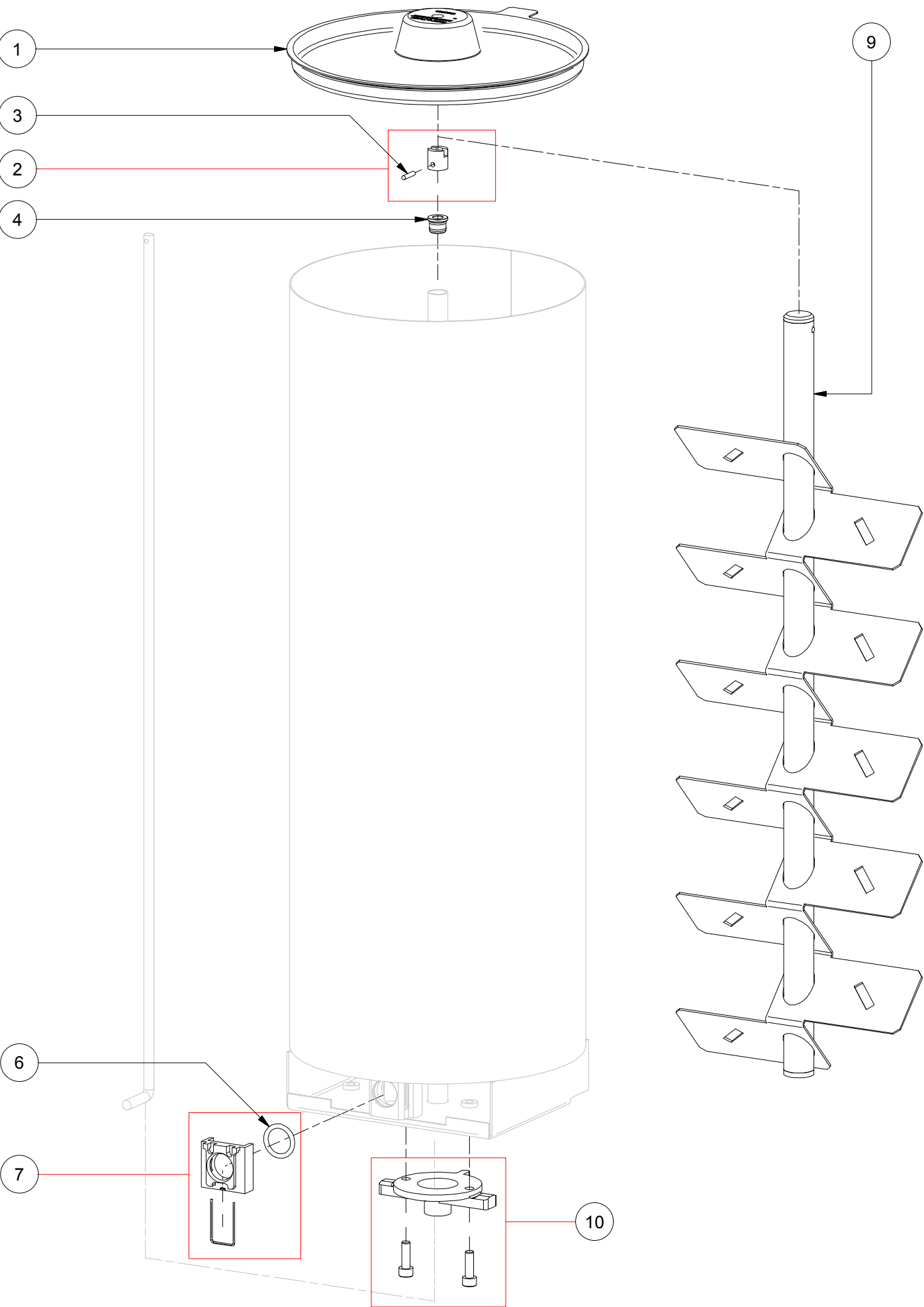
6L,SST can,1ex,SST agit 1863216-SP



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	

7244

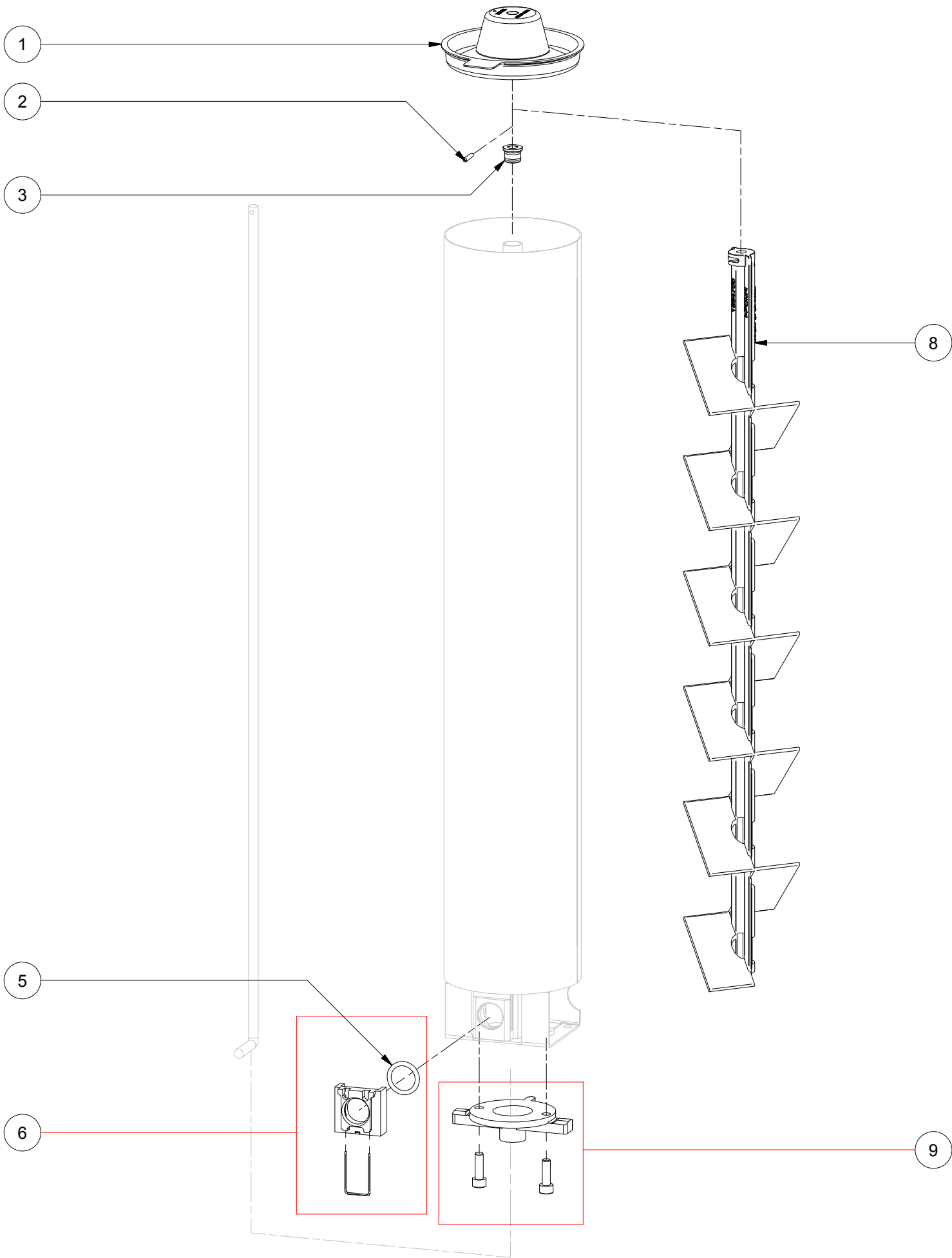
10L,SST can,1ex,SST agit 1810599-SP



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	

7245

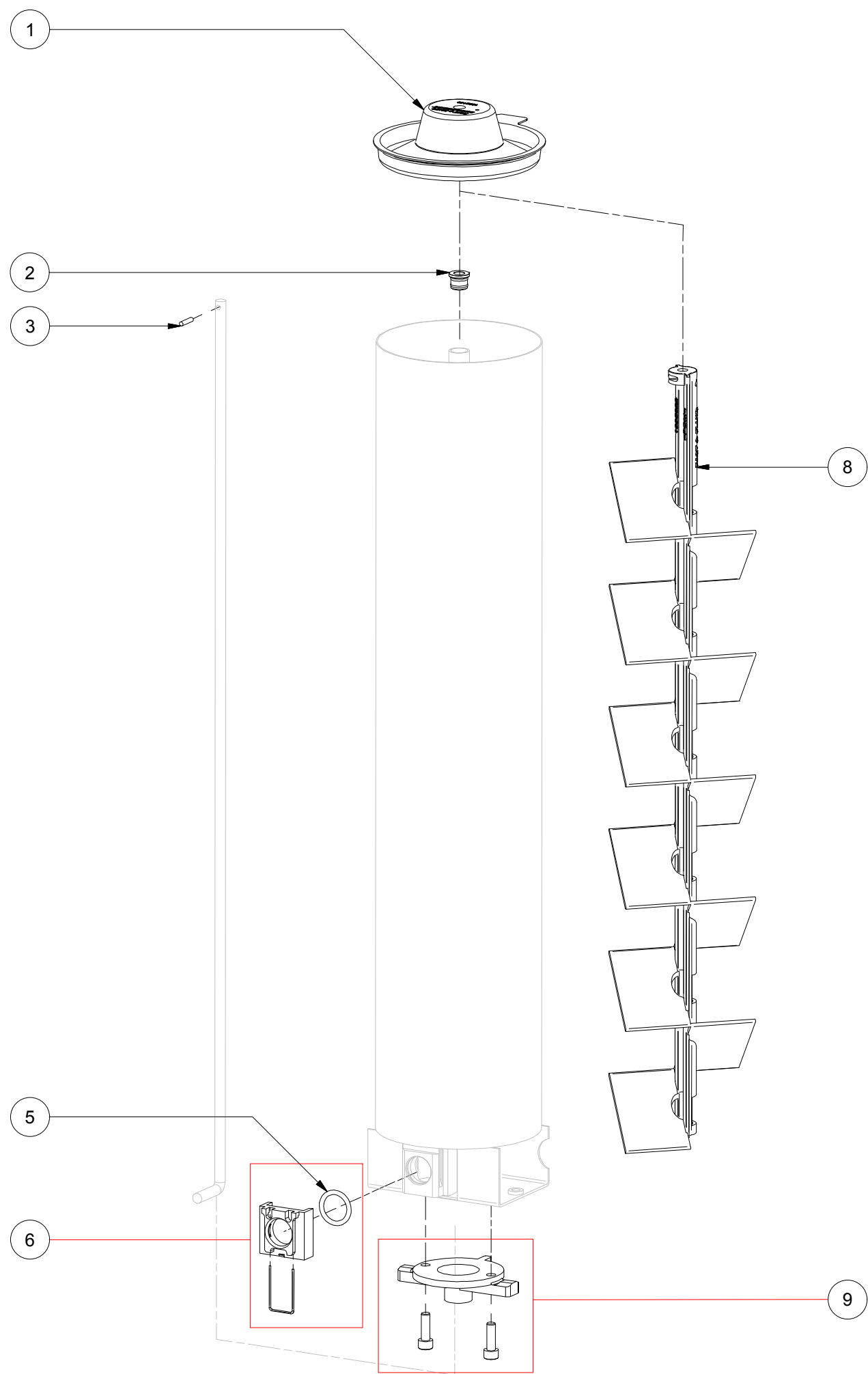
2L,SST can,1ex,POM agit 1814988-SP



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1802502-SP	Lid POM,2L can,5pcs	
2	1860110-SP	Pin,spirol,f2.5x12,Sst,25pcs.	
3	1801447-SP	Bush,shaft-pipe,set,HA,10pcs	
5	1362230-SP	O-ring,viton,15.88x2.62,10pcs	
6	1810767-SP	Clip,spring,tube,(Set 5pcs)	
8	1864700-SP	Agit POM, 2L SST can, 5pcs	
9	1816106-SP	Cap,bottom,sst can with screws	

7246

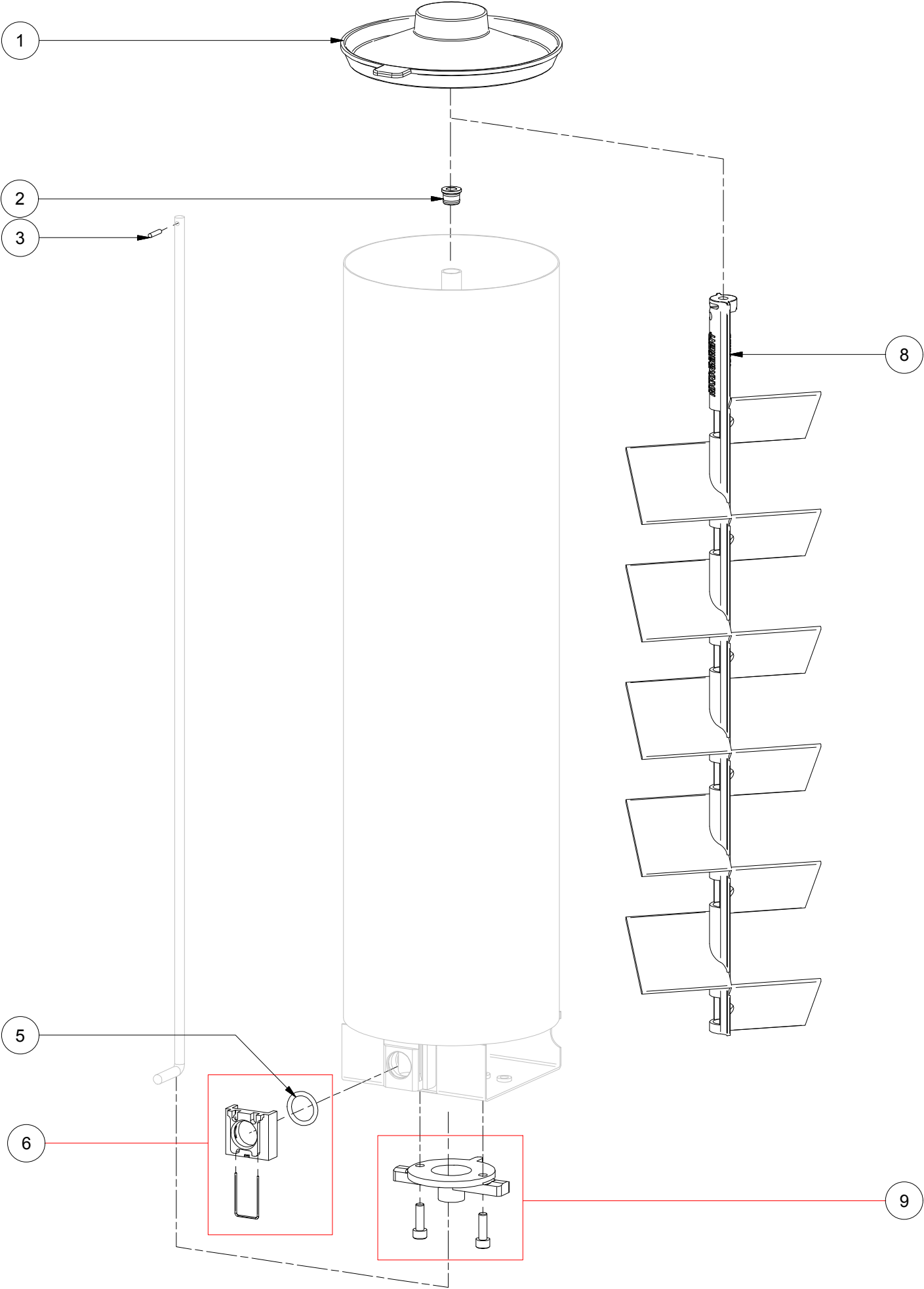
3L,SST can,1ex,POM agit 1809888-SP



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	

7247

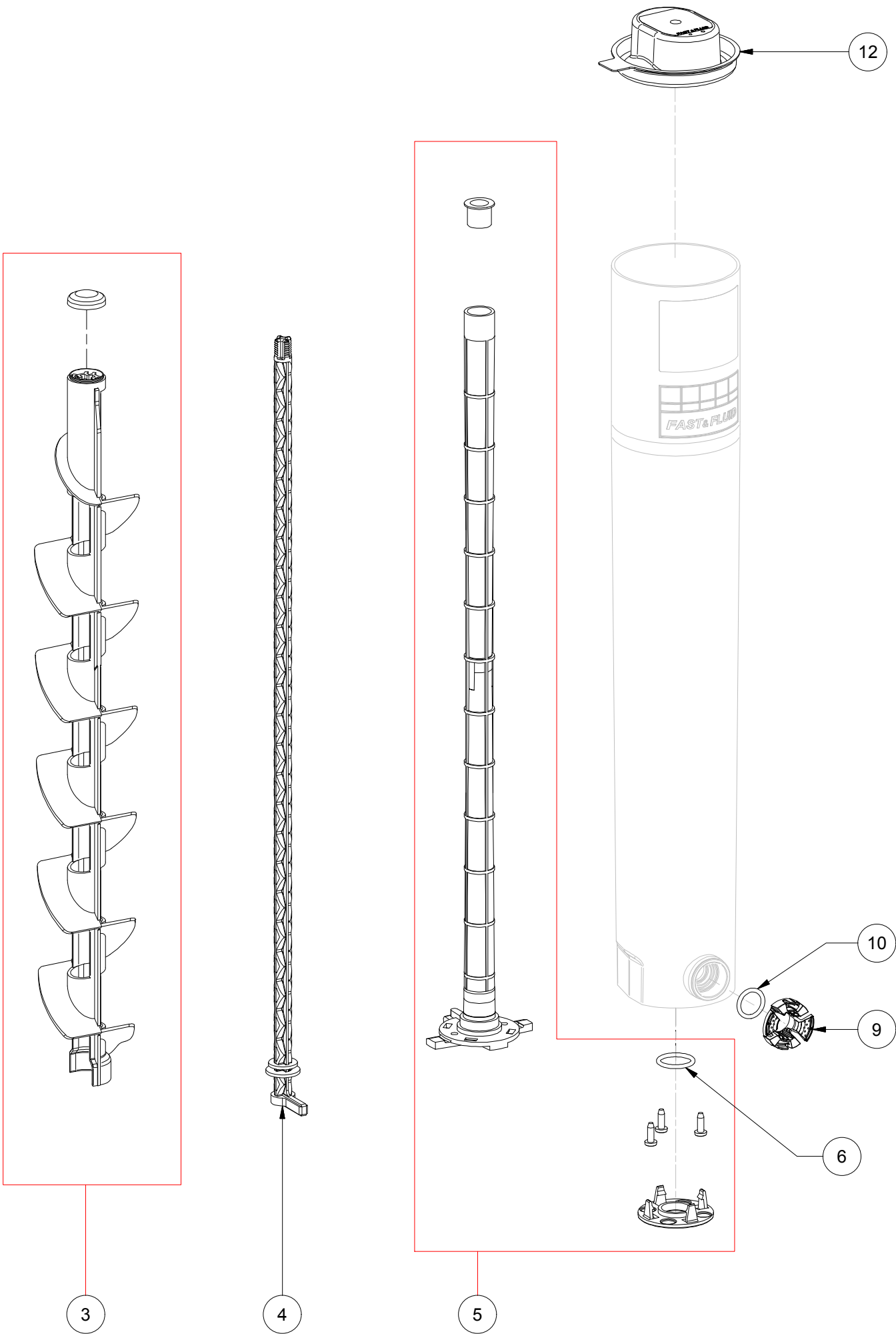
6L,SST can,1ex,POM agit 1810596-SP



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	

7248

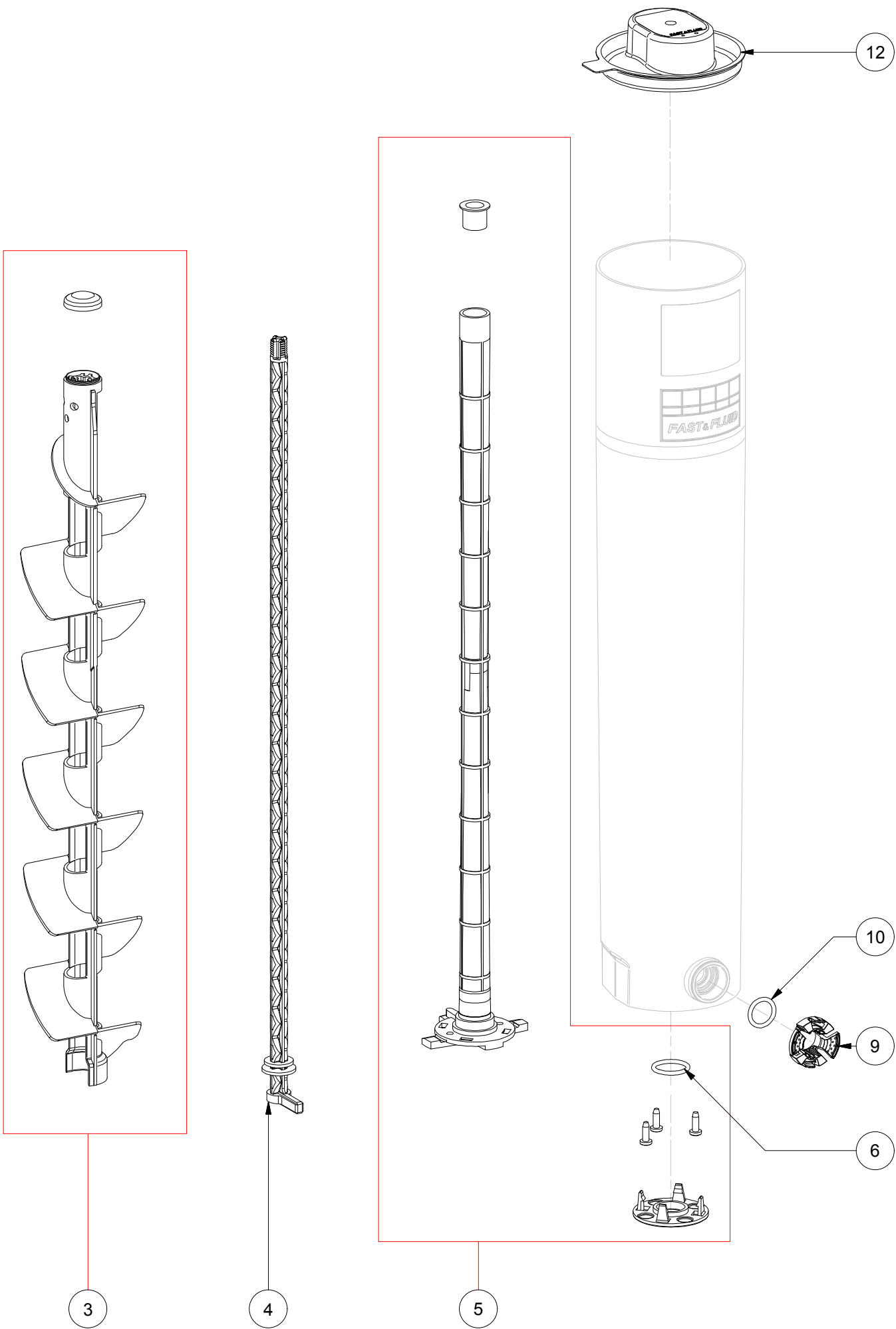
2L,POM can,1ex,POM agit 1865010-SP



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
3	1817911 -SP	Agitator,2L,POM,2014,5pcs	
4	1817917-SP	Shaft,canister,HA,5pcs	
6	1362231-SP	O-ring,cann.vit.20.29 set 10pc	
5	1817427-SP	Inner tube,canister,kit	
9	1817841-SP	Clip,pump,canister,HA,5pcs	
10	1362230-SP	O-ring,viton,15.88x2.62,10pcs	
12	1817421-SP	Lid POM,2L can,5pcs	

7249

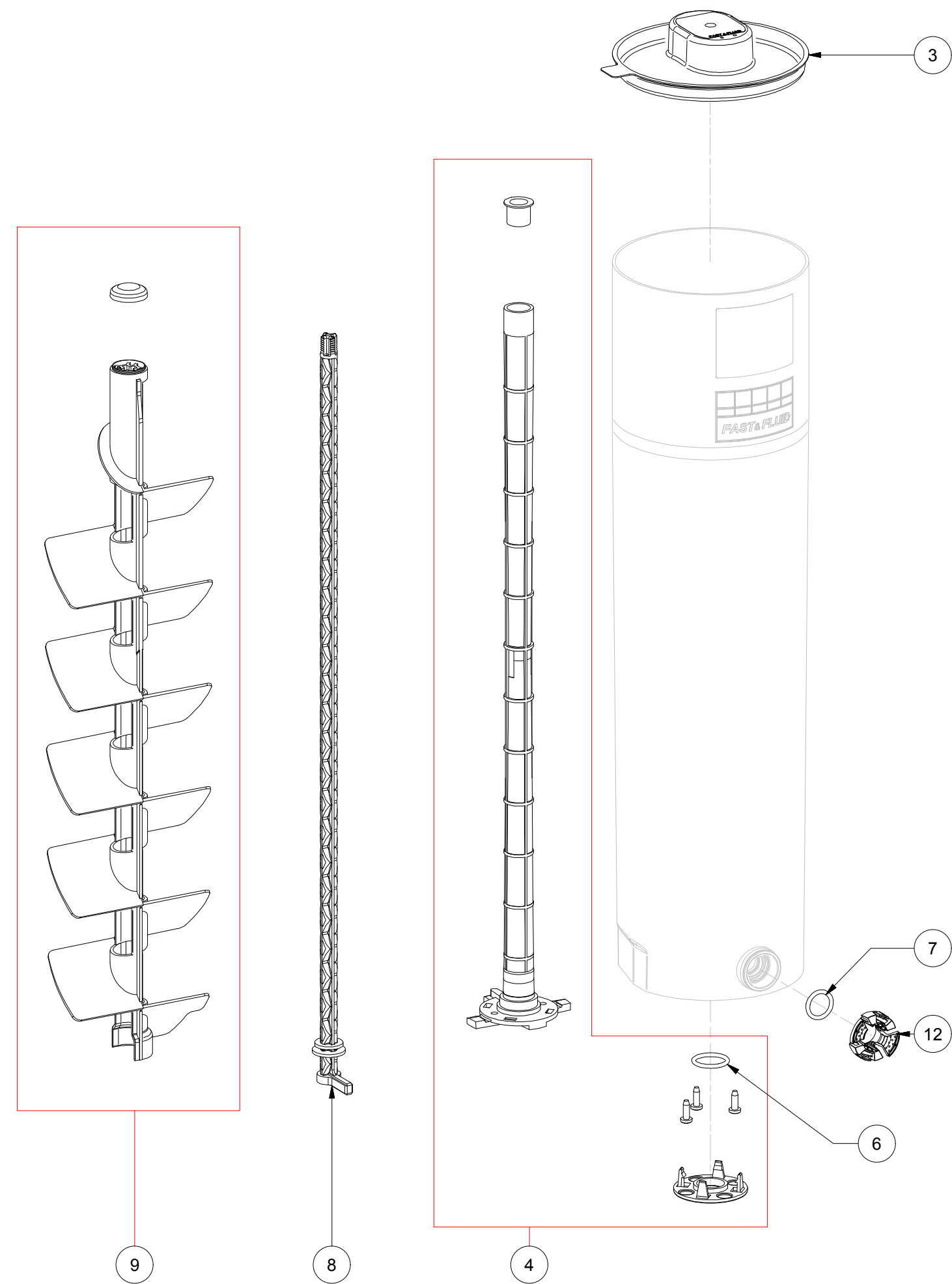
3L,POM can,1ex,POM agit 1865011-SP



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	

7250

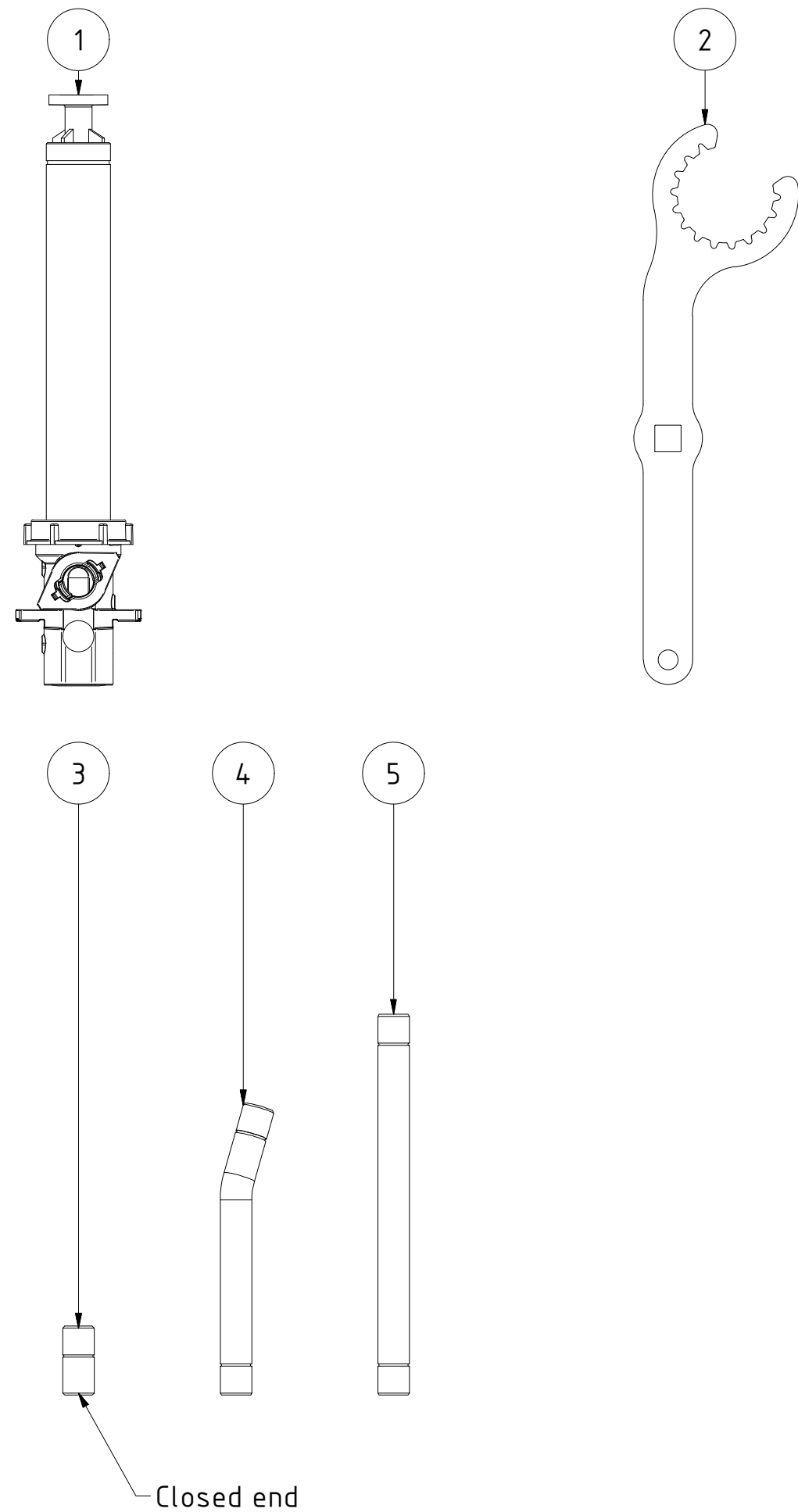
6L,POM can,1ex,POM agit 1865012-SP



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
3	1817423-SP	Lid POM,5/6L can,5pcs	
4	1817427-SP	Inner tube,canister,kit	
6	1362231-SP	O-ring,cann.vit.20.29 set 10pc	
7	1362230-SP	O-ring,viton,15.88x2.62,10pcs	
8	1817917-SP	Shaft,canister,HA,5pcs	
9	1817912-SP	Agitator,6L,POM,2014	
12	1817841-SP	Clip,pump,canister,HA,5pcs	

7260

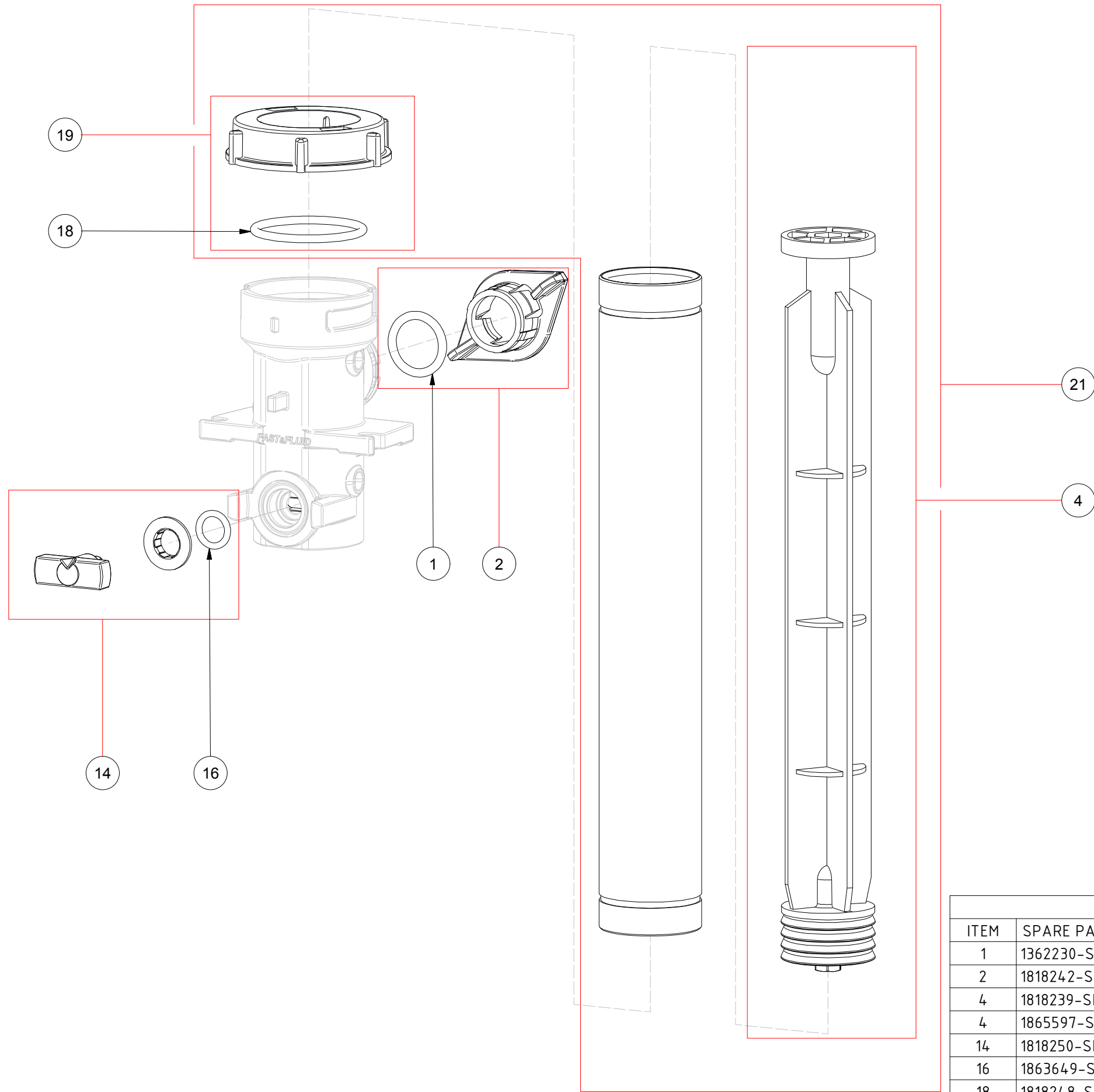
Pumps



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1818238-SP	Pump,Ballvalve,100ml	
2	1818742-SP	Key,ring,pump	
3	1810605-SP	Plug,canister,16x35mm,set 5pcs	
4	1814138-SP	Tube,ø16x139,angle 16deg,HA	
4	1810592-SP	Tube,ø16x139.8,angle 7deg,HA	
4	1814135-SP	Tube,ø16x148.2,angle 27deg,HA	
4	1814136-SP	Tube,ø16x193.7,angle 10deg,HA	
4	1814139-SP	Tube,ø16x216,angle 4.5,HA	
5	1810574-SP	Tube,ø 16x 42.3,HA	
5	1805202-SP	Tube,ø16x 48.5,HA	
5	1810577-SP	Tube,ø16x 59.3,HA	
5	1810584-SP	Tube,ø16x 74,3,HA	
5	1810585-SP	Tube,ø16x 91.3,HA	
5	1810582-SP	Tube,ø16x117.3,HA	
5	1804333-SP	Tube,ø16x127,HA	
5	1810575-SP	Tube,ø16x134.3,HA	
5	1810576-SP	Tube,ø16x151.3,HA	
5	1810578-SP	Tube,ø16x173.3,HA	
5	1810580-SP	Tube,ø16x180.3,HA	
5	1810579-SP	Tube,ø16x190.3,HA	
5	1864579-SP	Tube,ø16x193.3,HA	
5	1810583-SP	Tube,ø16x232,3 HA	
5	1810589-SP	Tube,ø16x237.3,HA	
5	1810590-SP	Tube,ø16x254.3,HA	
5	1810586-SP	Tube,ø16x263.3,HA	
5	1810588-SP	Tube,ø16x316.3,HA	
5	1810591-SP	Tube,ø16x333.3,HA	

7261

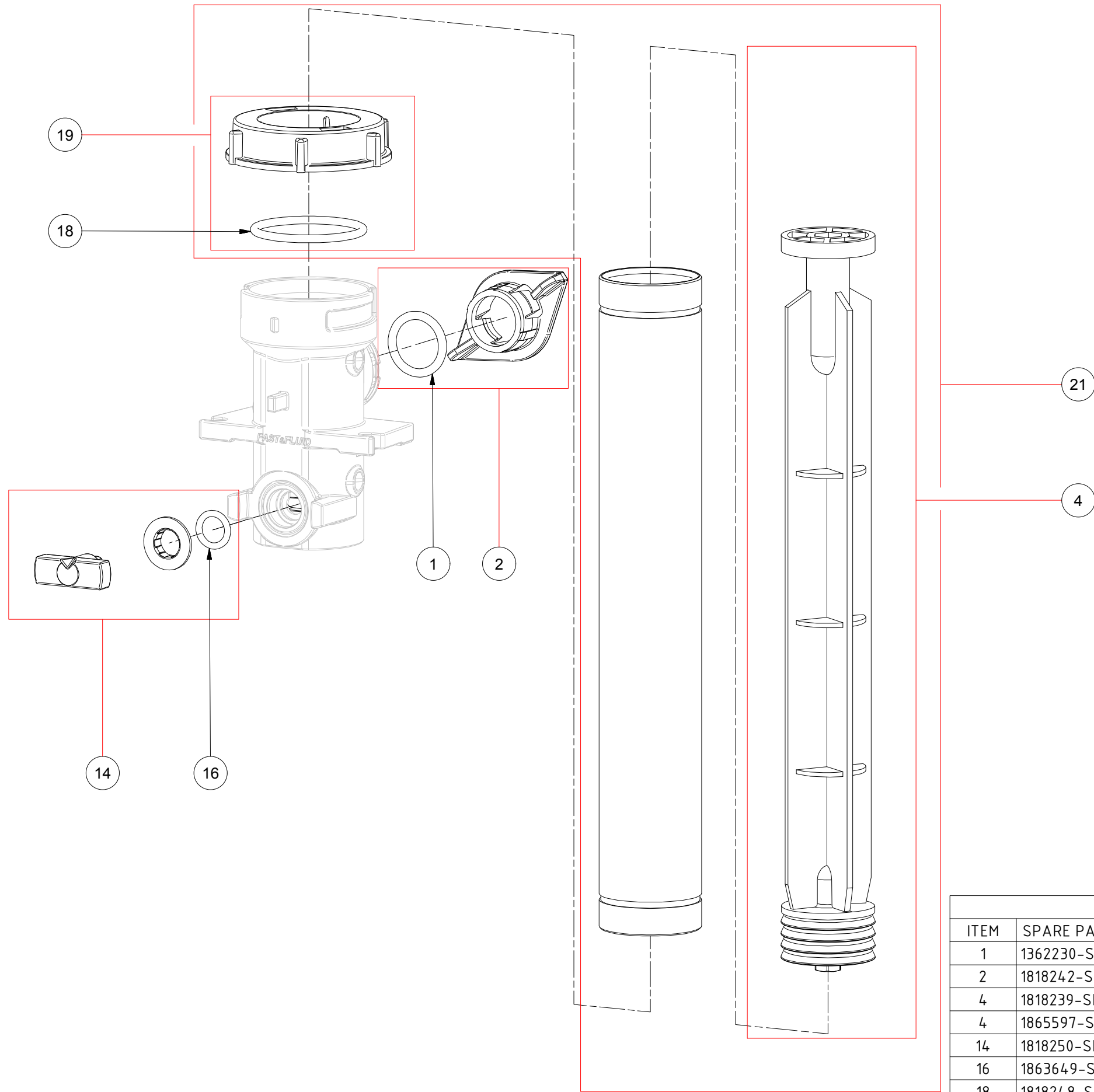
Pump,Ballvalve,100ml 1818238



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)	

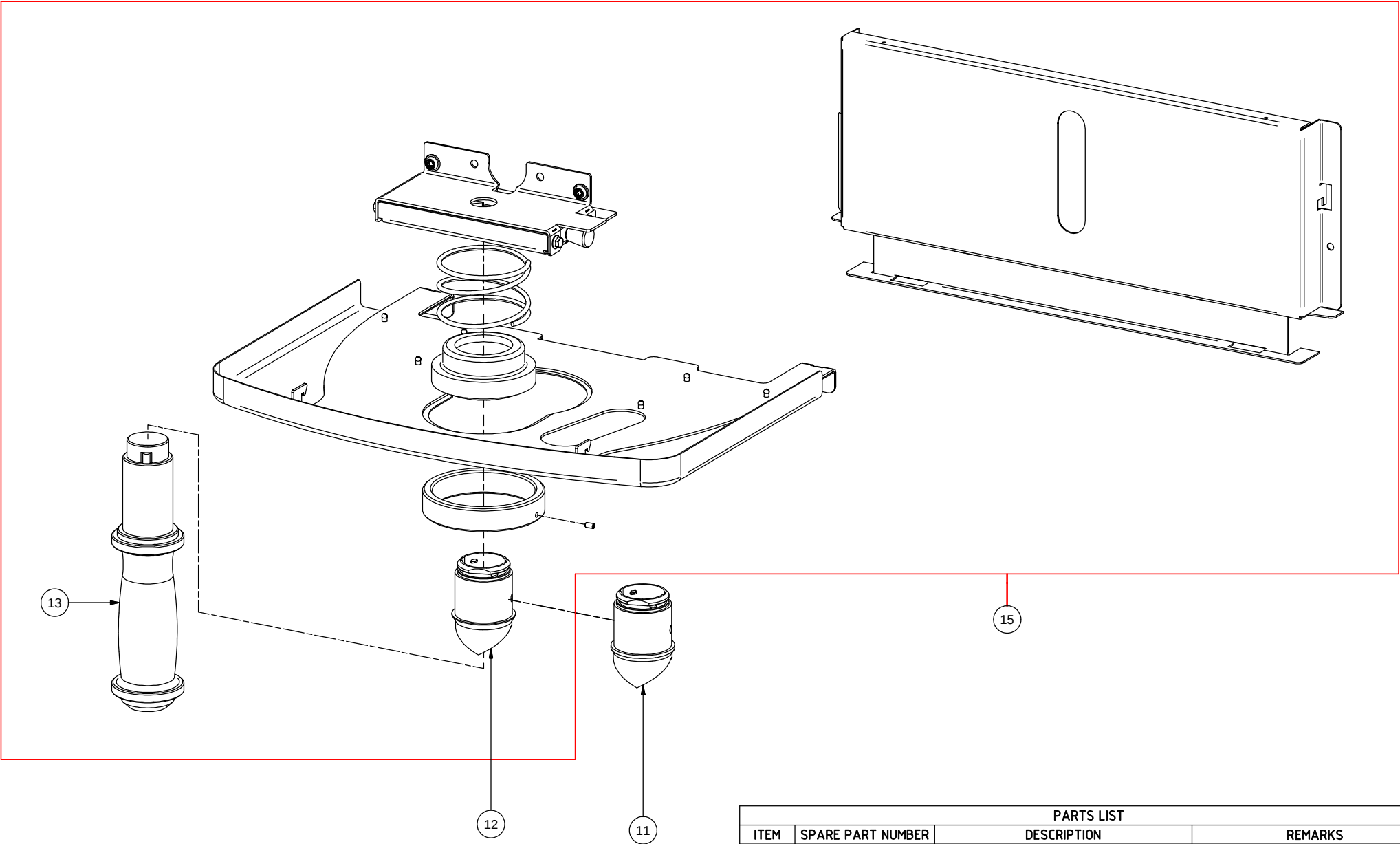
7261

Pump,Ballvalve,100ml 1818238



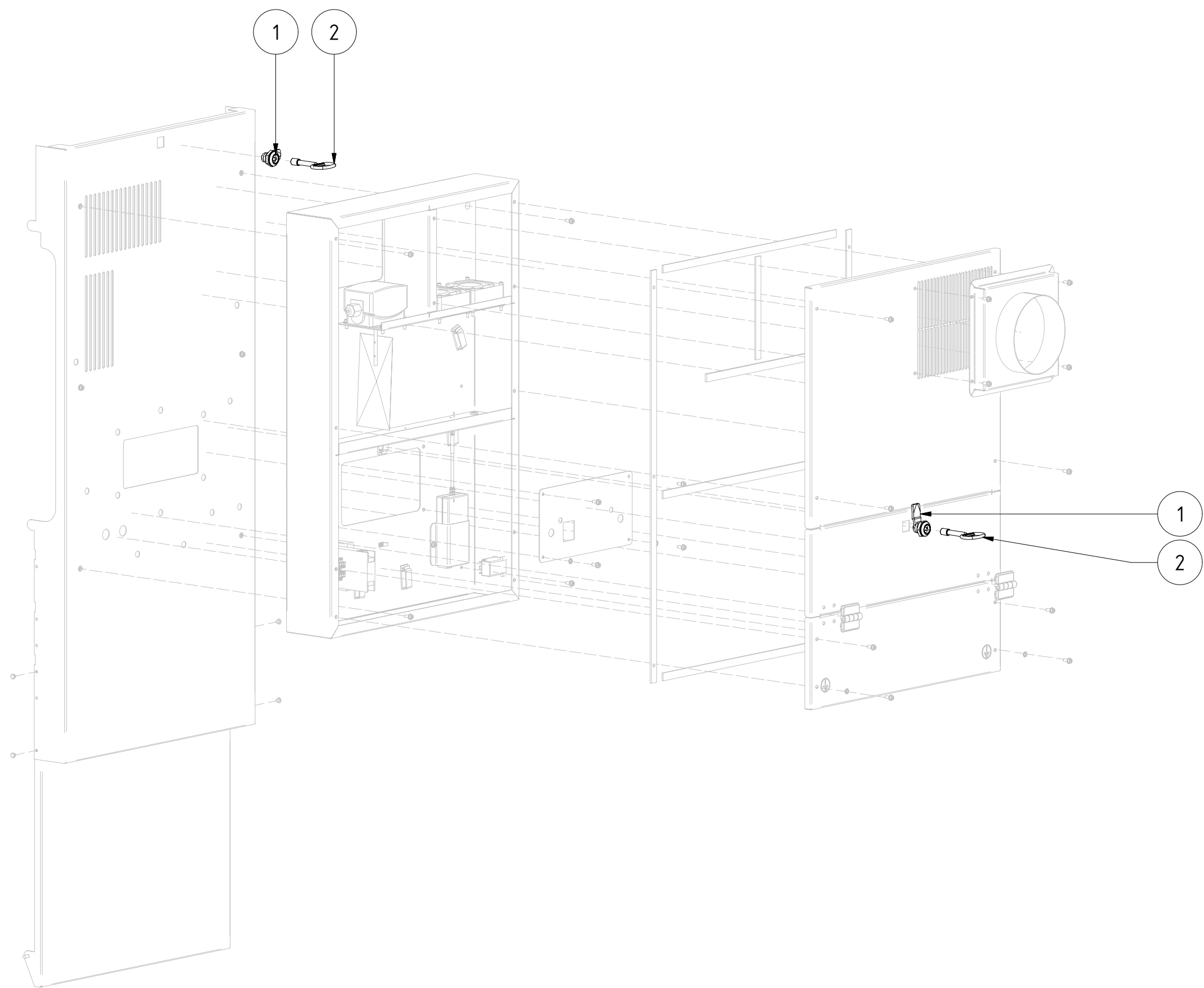
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1362230-SP	O-ring,can,vit,15.88x2.62 10st	
2	1818242-SP	Tube clip, 16mm (set 5pcs)	
4	1818239-SP	Pistonrod, incl. teflon (set 10pcs)	
4	1865597-SP	Pistonrod, incl. teflon (set 100pcs)	
14	1818250-SP	lever, valve (set 5pcs)	
16	1863649-SP	O-ring,8,5x2,lever,ballv,10pcs	
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)	

7271-B Punch



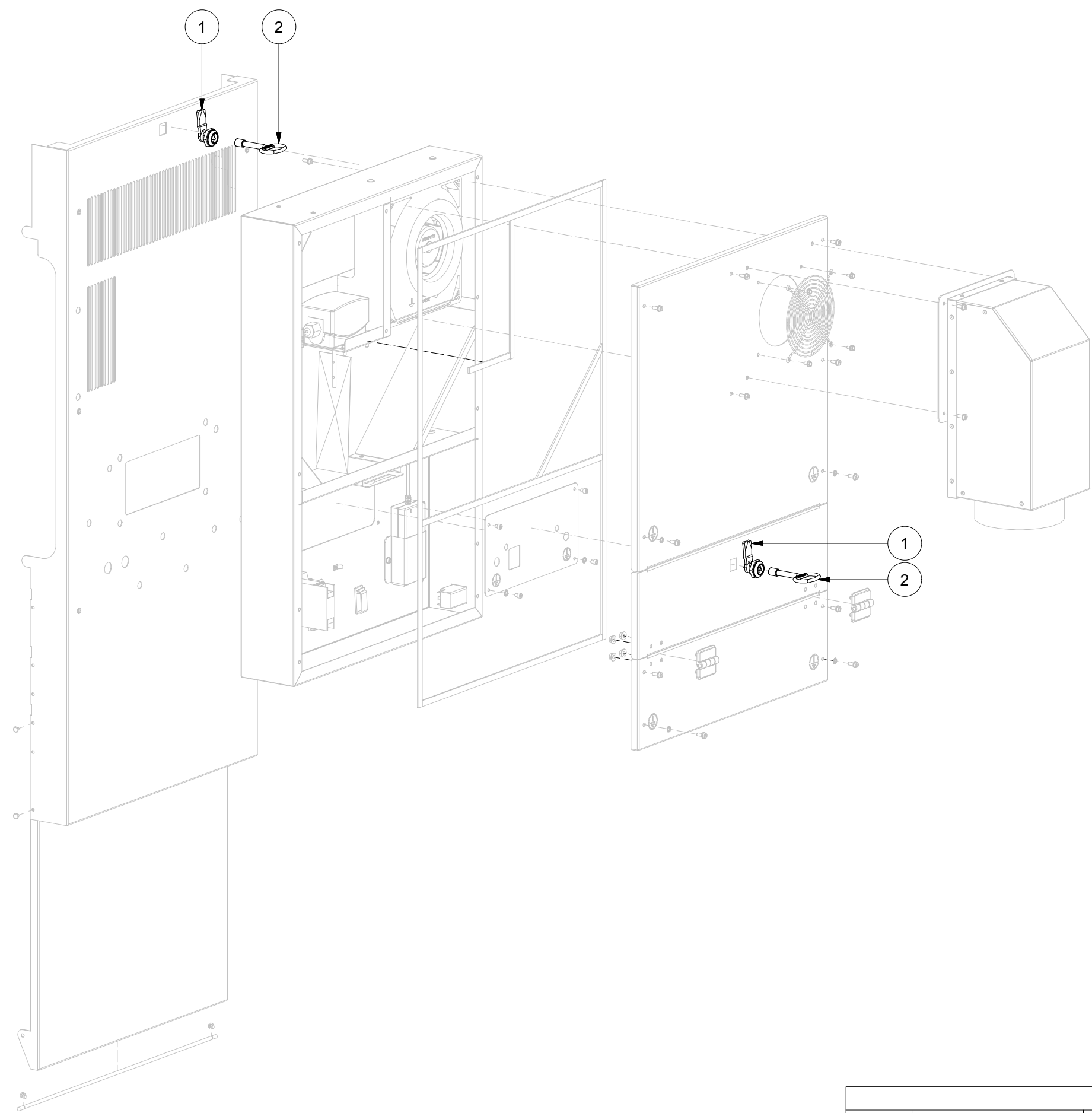
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
11	1819639-SP	Blade,punch,48mm,2pcs	
12	1819370-SP	Blade,punch,46mm,2pcs	
13	1819362-SP	tool,punch,HA,HP	
15	1819009-SP	Electric punch HA480, complete	

7272-A Ventilated back cover



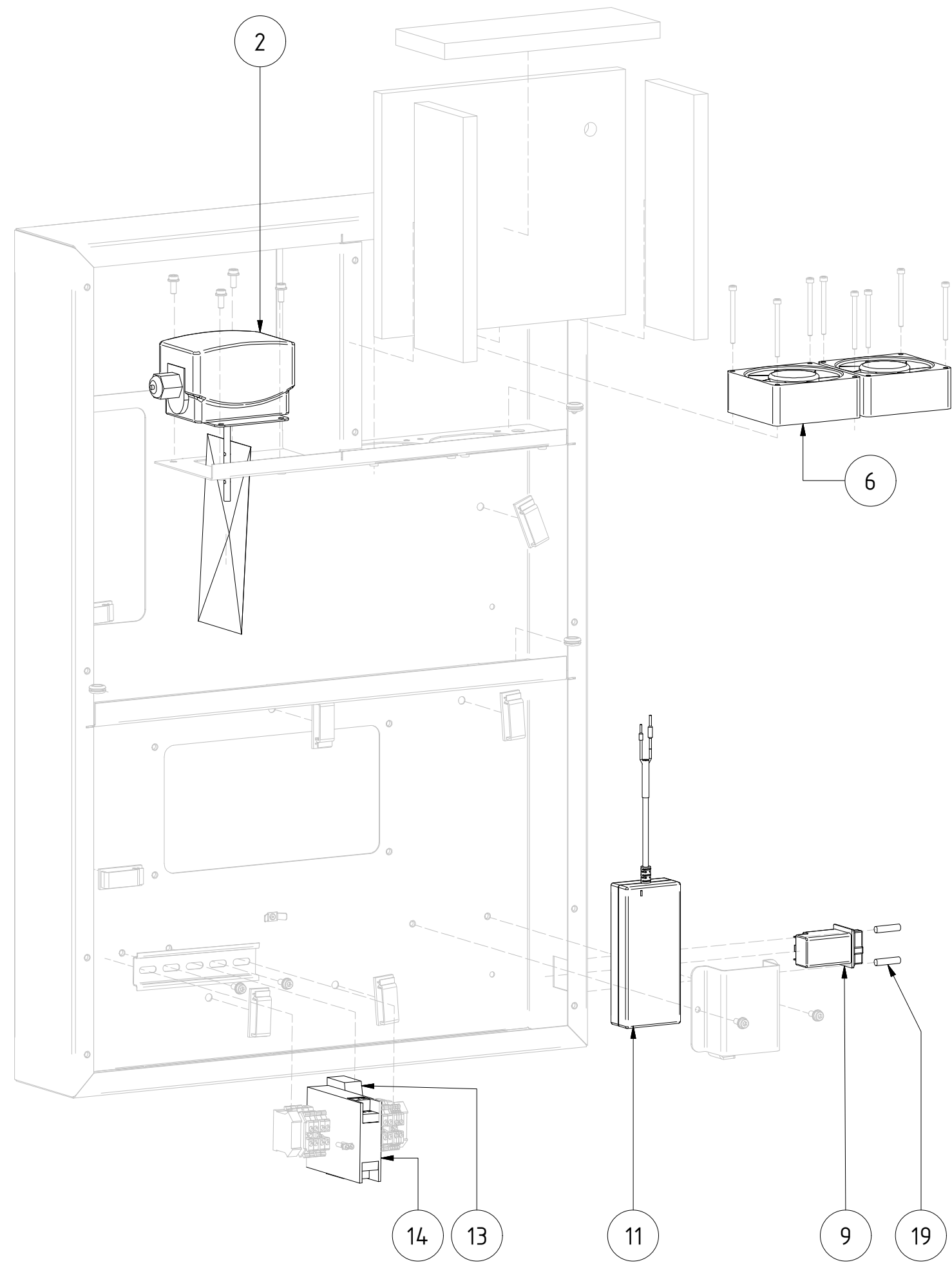
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1862860-SP	Quad,panel,latche	
2	1111010-SP	Key,triangle	

7272-B Ventilated back cover



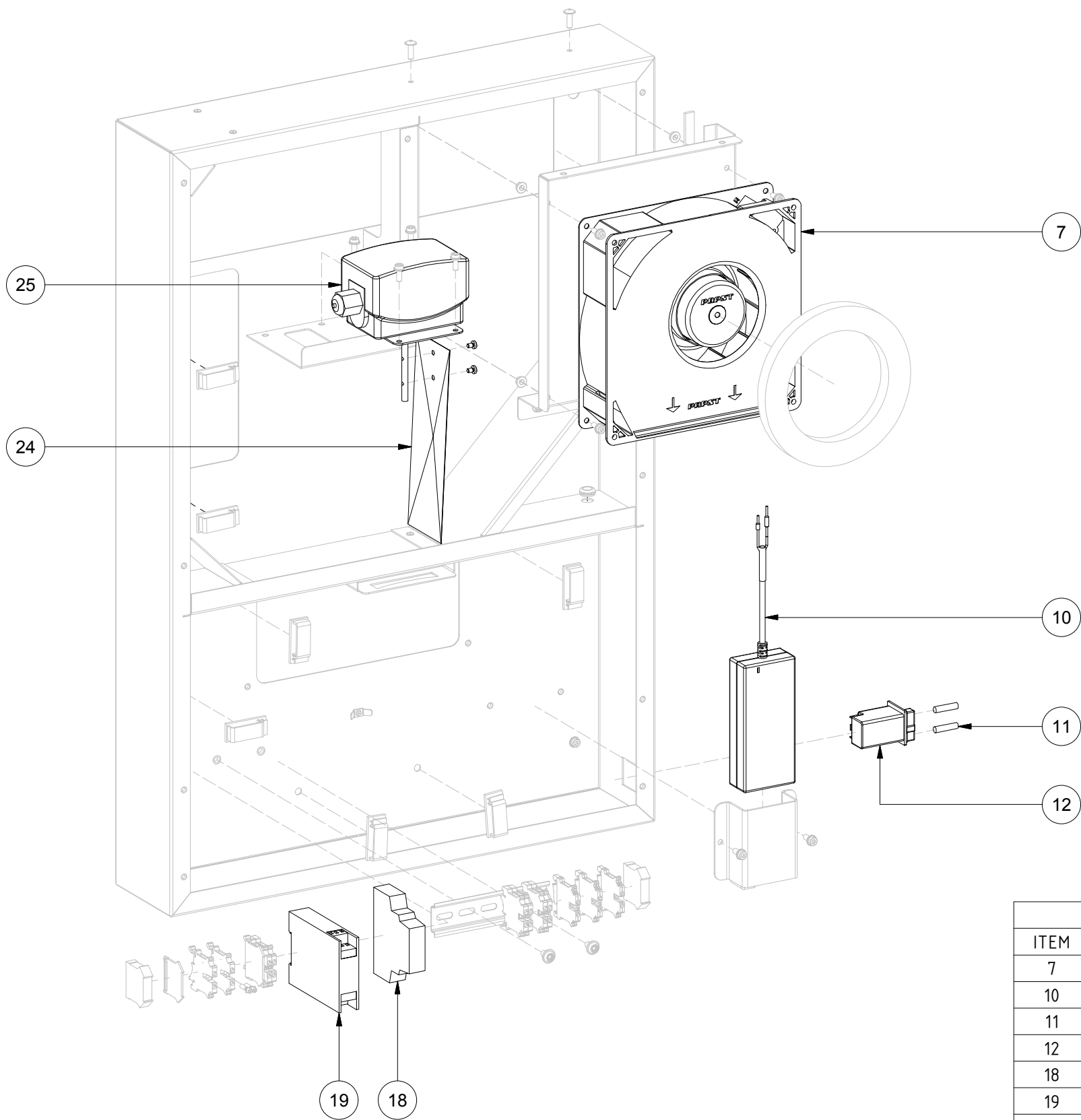
PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
1	1862860-SP	Quad,panel,latche	
2	1111010-SP	Key,triangle	

7273-A Ventilated back cover box



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
2	1818975-SP	Flow sensor	
6	1818972-SP	Fan	
9	1818326-SP	Netentry with filter	
11	1862749-SP	Powersupply,assy, TM300/HA150	
13	1819065-SP	on-delay timing relay	
14	1818970-SP	Switching module,EXL-IRU-1	
17	1870223-SP	terminal,endplate,UK5-Ex	
18	1865681-SP	End clamp,ENS35N,DIN rail	
19	1860745-SP	Fuse,3.15A,T,250V	
28			

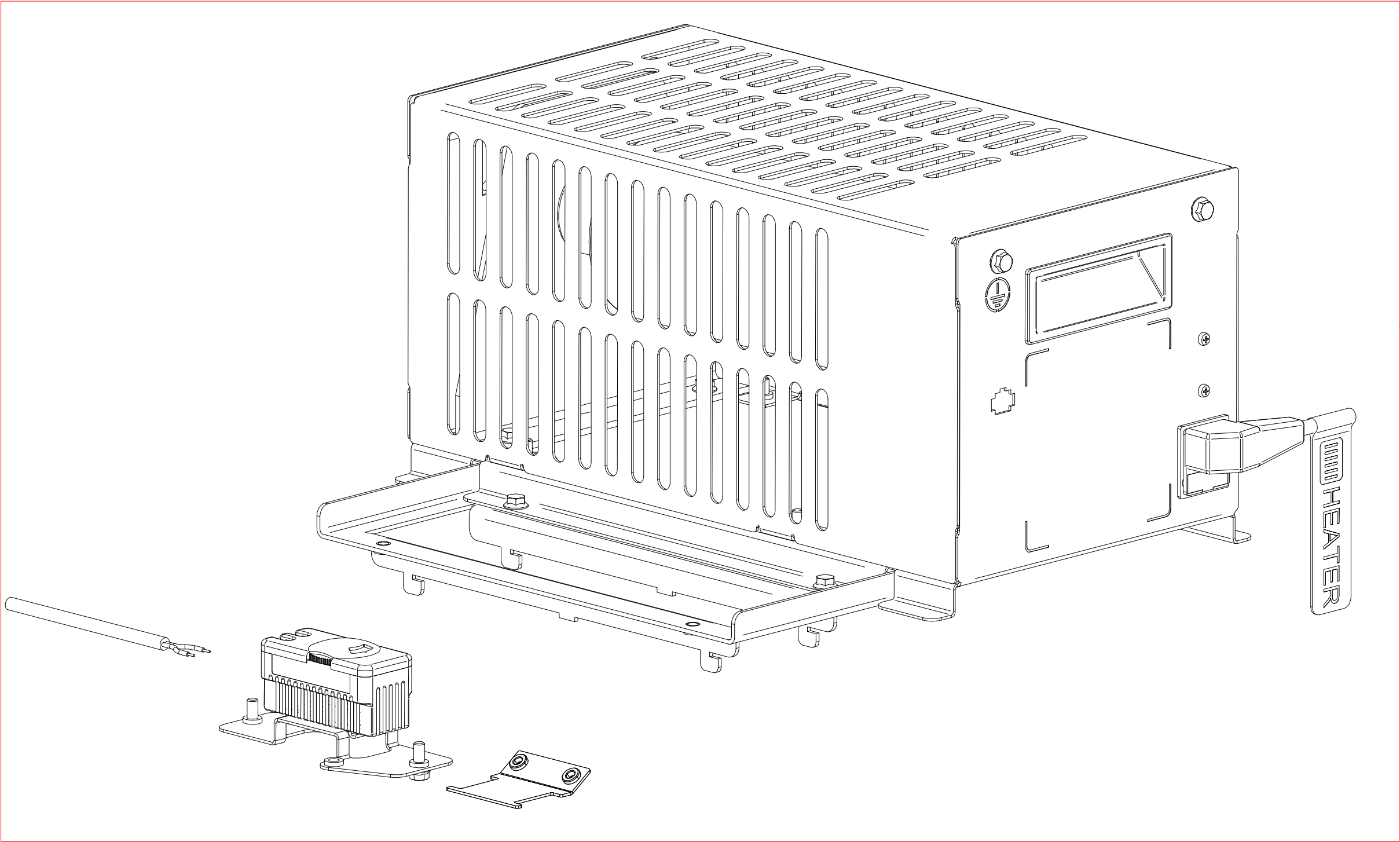
7273-B Ventilated back cover box



PARTS LIST			
ITEM	SPARE PART NUMBER	DESCRIPTION	REMARKS
7	1819616-SP	Centrifugal Fan Blower	
10	1862749-SP	Powersupply,assy,TM300/HA150	
11	1860745-SP	Fuse,3.15A,T,250V	
12	1818326-SP	Netentry with filter	
18	1819065-SP	on-delay timing relay	
19	1818970-SP	Switching module,EXL-IRU-1	
24	1819624-SP	Flag,flow sensor	
25	1818975-SP	Flow sensor	

7274

Heating module 1819274



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

