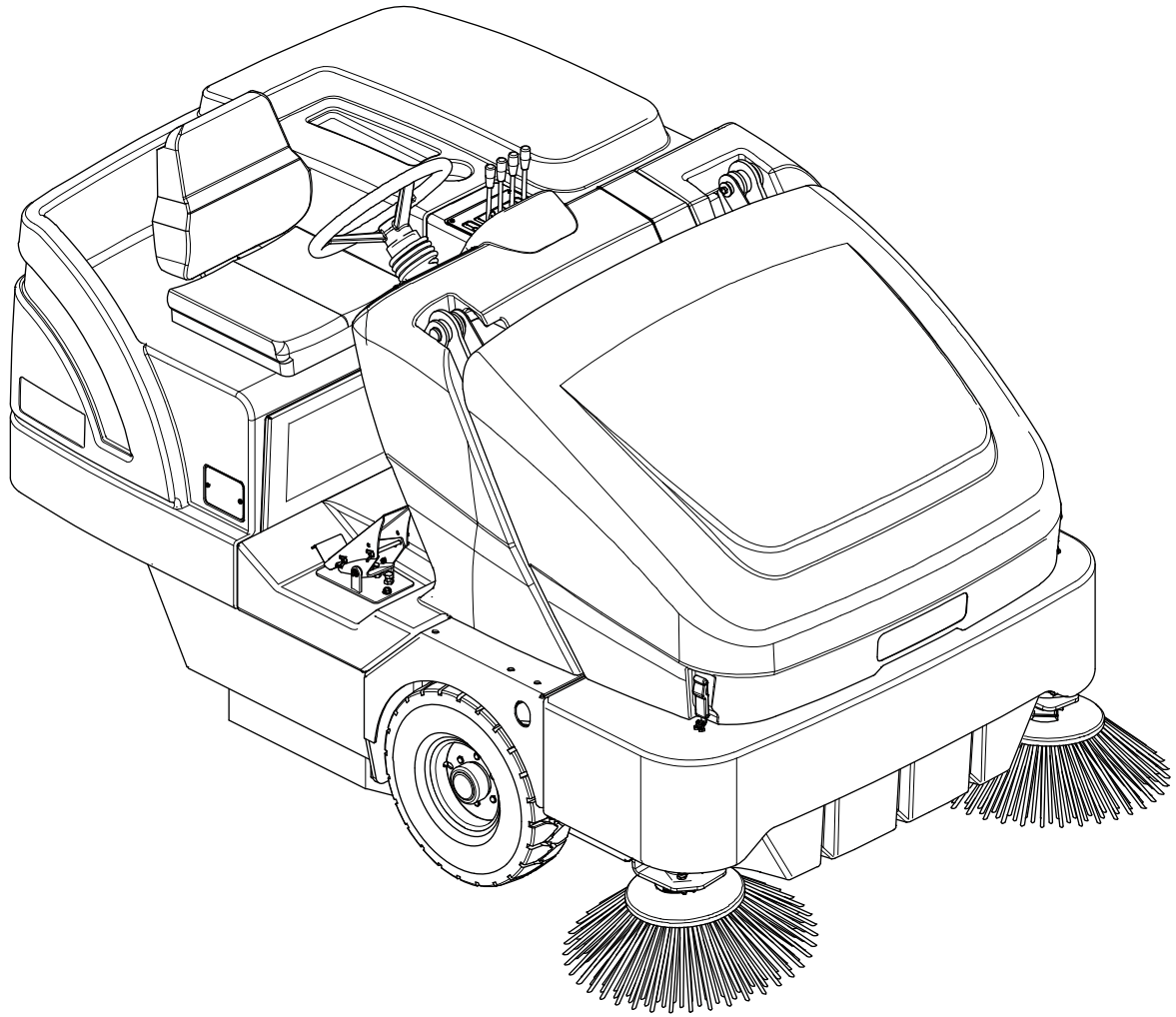
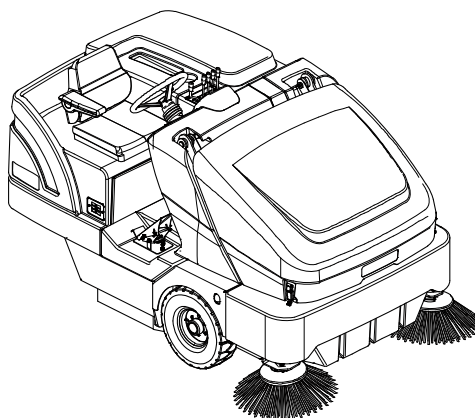


Proterra™



PARTS LIST

Advance models: 13300107 (Battery)



DESCRIPTION

PLAN

GENERAL VIEW	2 - 3
CHASSIS ASSEMBLY	4 - 7
CHASSIS COMPONENTS	8 - 9
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WHEN ORDERING PARTS

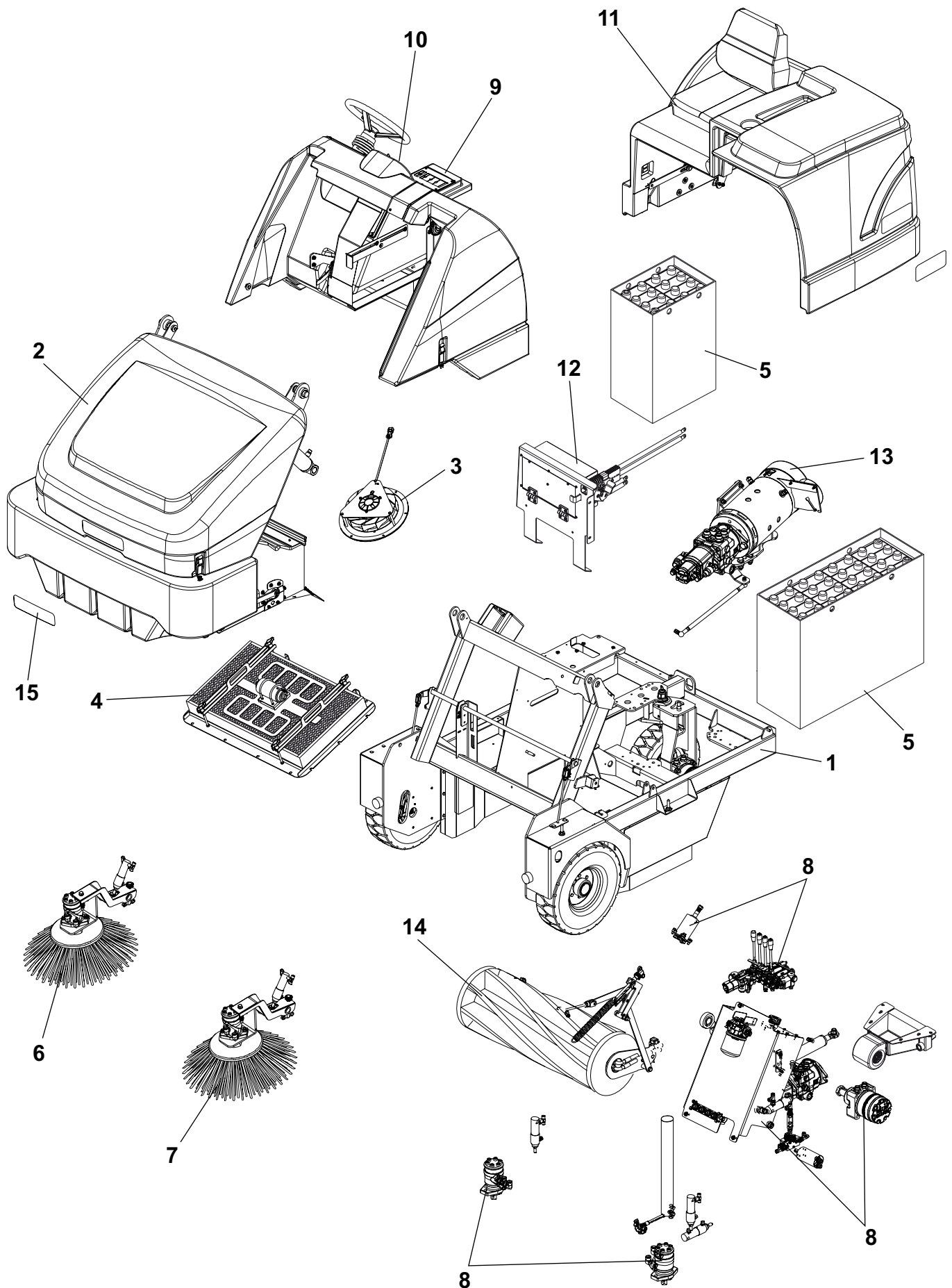
- * Use the 8, 9 or 10 digit numbers from the "Ref. No." columns in this parts list.
- * Specify the model and serial number of the machine.
- * Use the space below to record the model and serial number for future reference.

Model _____ Serial No. _____

*** = Optional**

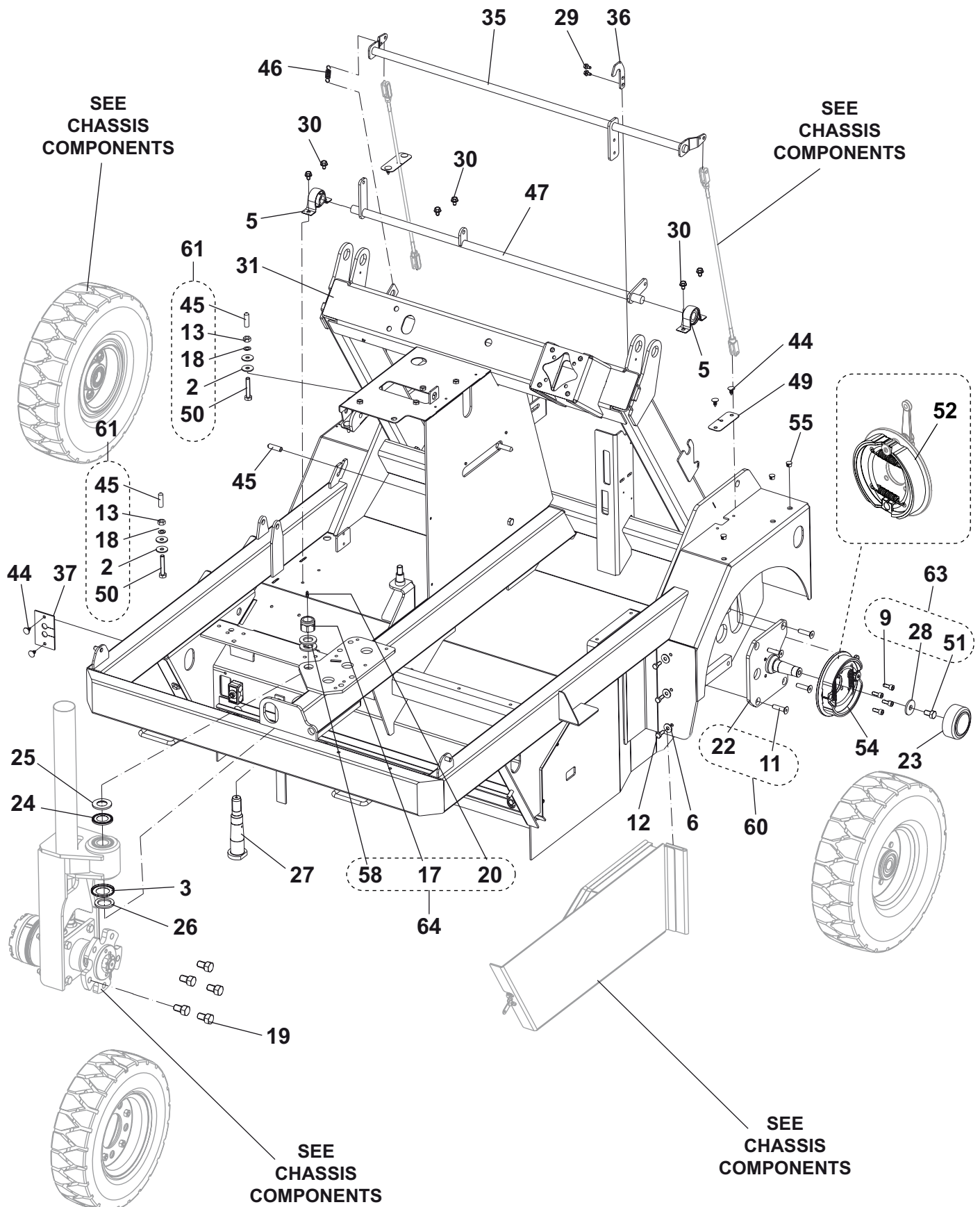
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= Modified item No. or New item No.



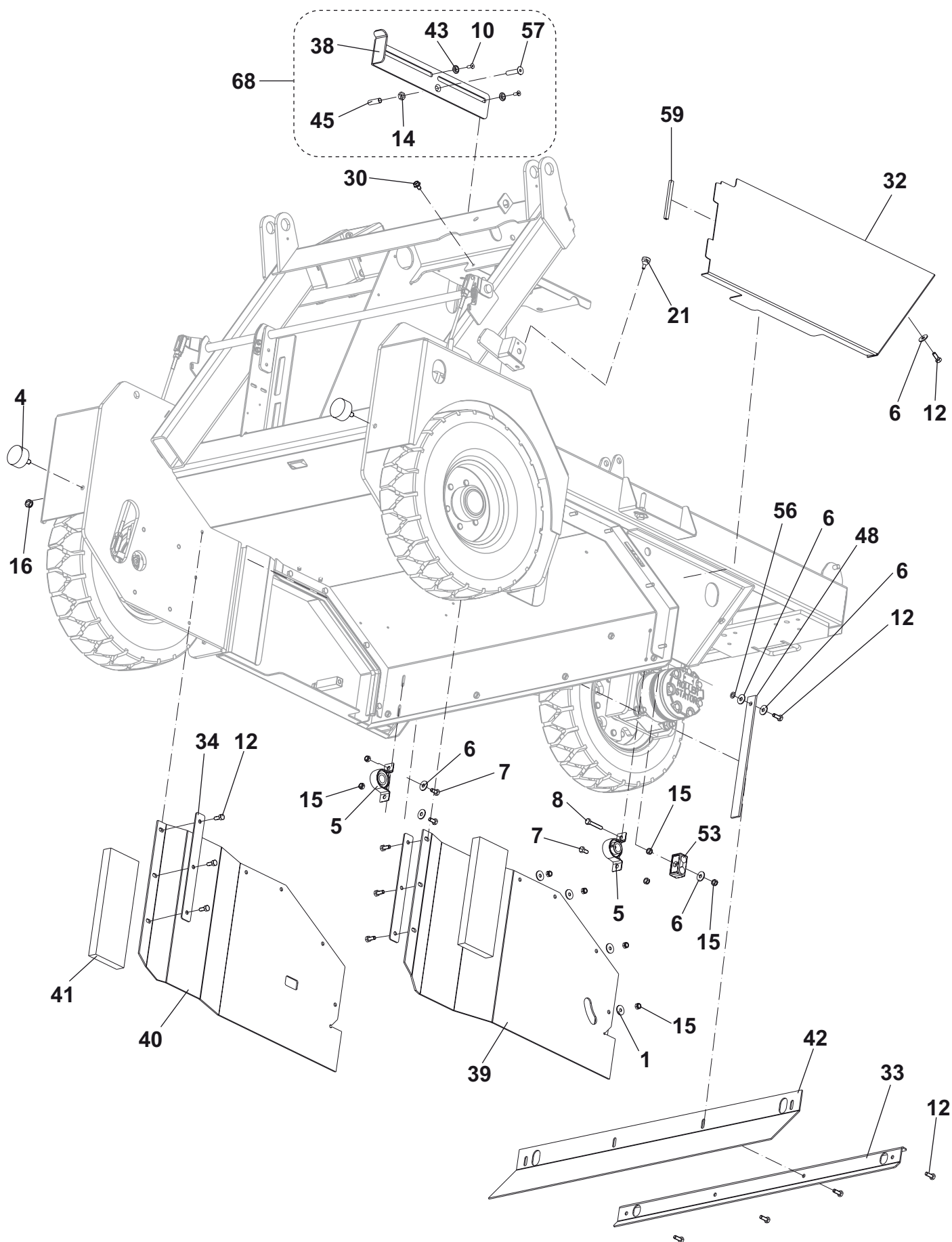
2009-09	GENERAL VIEW			
	Proterra™			3

Item	Ref. No.	Qty	Description
1		1	CHASSIS ASSEMBLY
2		1	HOPPER SYSTEM
3		1	VAC FAN ASSY
4		1	PANEL ASSY
5*	80562010	1	BATTERY TRACTION 48 V 375 A (BAT)
6		1	RIGHT SIDE BROOM ASSY
7		1	LEFT SIDE BROOM ASSY (OPTIONAL)
8		1	HYDRAULIC PLANT ASSY
9		1	CONTROL ASSY
10		1	CONTROL PANEL AND RELAYS ASSY
11		1	REAR COVER ASSY
12		1	ELECTRIC BOX ASSY
13		1	ELECTRIC MOTOR ASSY
14		1	MAIN BROOM SYSTEM
15	33020133	1	LABELS KIT Proterra™
[16]*	80562030	1	BATTERY CHARGER 48V 50Ah



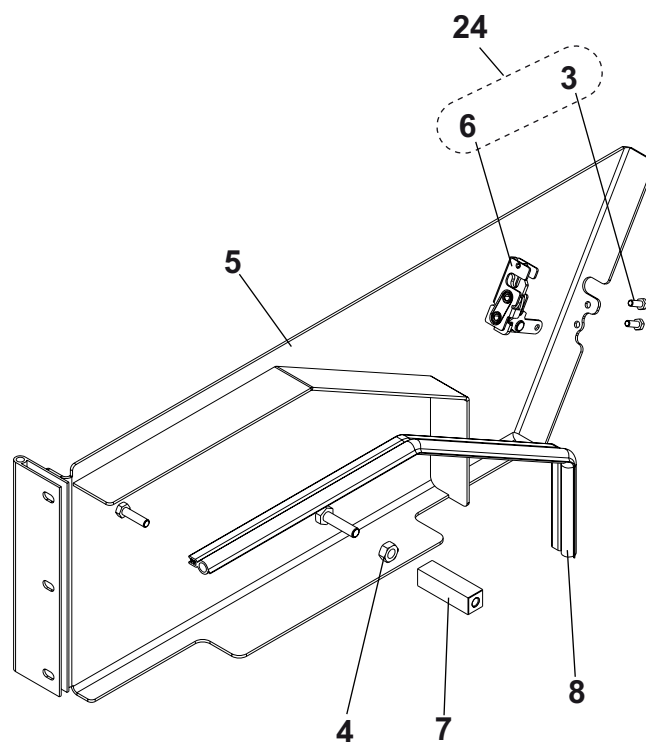
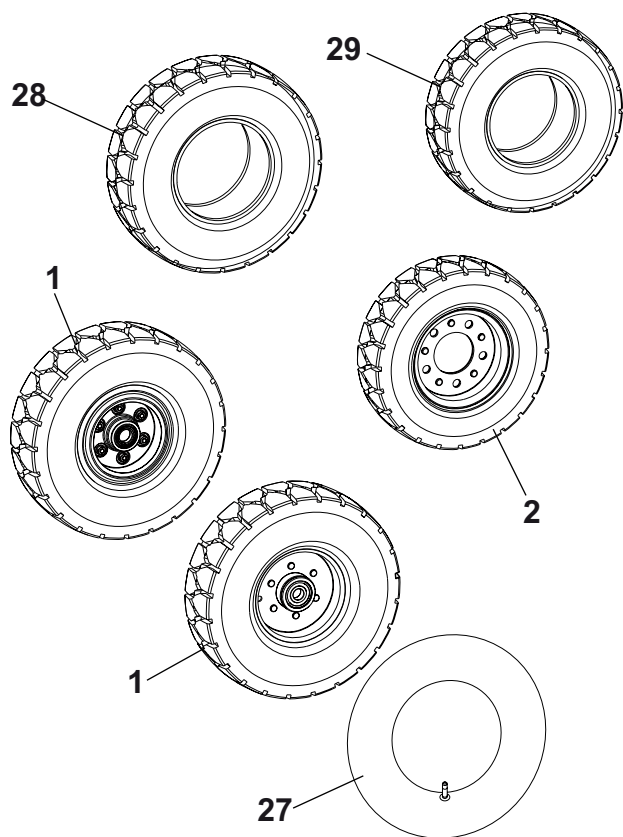
2009-09	CHASSIS ASSEMBLY			
	Proterra™			5

Item	Ref. No.	Qty	Description	Item	Ref. No.	Qty	Description
1		4	WASHER 8X24 UNI6592	48	33017262	1	STATIC STRAP
2		4	WASHER 10X30 UNI6592	49	33017266	2	FLAP WHEEL WELL TOP
3	33003125	1	RING NILOS AV	50		2	SCREW M10X55 UNI5739
4	33003129	2	VIBRATION -DAMPING	51		2	SCREW M12X20 UNI5739
5	33003201	4	SUPPORT SBPP 204	52	33020206	2	BRAKE LINING AND SPRING ASSY
6		9	WASHER 8X24 UNI6593	53	33018539	1	COLLAR DOUBLE D.18
7		3	SCREW M8X16 UNI5739	54	33020204	2	DRUM BRAKE ASSY
8		1	SCREW M8X45 UNI5739	55		3	PLUG BLACK
9		8	SCREW M8X20 UNI5931	56		1	WASHER
10		2	SCREW M6X16 UNI5933	57		1	SCREW M10X45 UNI5933
11		8	SCREW M10X40 UNI5933	58		2	WASHER M24 UNI6592
12		15	SCREW M8X20 UNI5739	59	146 1966 000	1	GASKET
13		2	NUT HEX M10 UNI5588	60	33018790	1	SUPPORT FRONT WHEEL KIT (ITEM 22-11)
14		1	NUT HEX M10 UNI5589	61	33020409	1	CENTRING HARDWARE KIT (ITEM 5 ITEM 0-45-18-13-2)
15		9	NUT SELF L. M8 UNI7474	[62]	33020410	1	BRAKE ROD HARDWARE KIT (ITEM 29-44)
16		2	NUT SELF L. M10 UNI7474	63	33020411	1	FRONT WHEELS SUPPORT HARDWARE KIT (ITEM 9-28-51)
17		1	NUT SELF L. M24X2 UNI7474	64	33020412	1	REAR WHEEL PIN HARDWARE KIT (ITEM 58-20-17)
18		2	WASHER M10 UNI8842A	[65]	33020332	1	CHASSIS HARDWARE KIT (ITEM 3-13-16 SEE PAGE 9 51-50-58-55-45-44-29-28-20-19-18-17-13-12-11-9-6-2)
19		5	STUD BOLT M 16X1.5	[66]	33018791	1	FIXING GASKETS KIT (ITEM 12-33-34-1-15)
20		1	LUBRICATOR M6	[67]	33020333	1	FLAP HARDWARE KIT (ITEM 16-6-12-15-1)
21	33009812	1	PLUG	68	33019212	1	HOPPER STOP KIT (ITEM 57-45-43-38-14-10)
22		2	SPINDLE	[69]	33018866	1	SUPPORT BEARING KIT (ITEM 5-15-8-7-6)
23	33016904	2	CAP				
24	33016909	1	RING NILOS AV				
25	33016910	1	WASHER UPPER				
26	33016911	1	WASHER LOWER				
27	33016912	1	PIN DRIVE YOKE PIVOT				
28		2	WASHER 12X40X4				
29		2	SCREW THREAD ROLLING M6X12				
30		10	SCREW THREAD ROLLING M8X12				
31	33017292	1	CHASSIS WELDED BATTERY				
32	33017057	1	DOOR LEFT WELDED				
33		1	PLATE REAR SEAL				
34		2	PLATE SIDE SEAL				
35	33017113	1	BAR JOINT BRAKE				
36	33017114	1	PLATE BAR JOINT BRAKE				
37	33017168	1	FLAP BROOM CHAMBER HOSES				
38		1	HOPPER SAFETY STOP				
39	33017171	1	FLAP SIDE				
40	33017172	1	FLAP SIDE				
41	33017173	2	FOAM HOPPER SIDE				
42	33017174	1	FLAP REAR BROOM				
43		2	BUSH				
44		6	RIVET PLASTIC				
45		4	CAP VINYL				
46	33017199	1	SPRING				
47	33017220	1	LINKAGE WELDED THROTTLE				

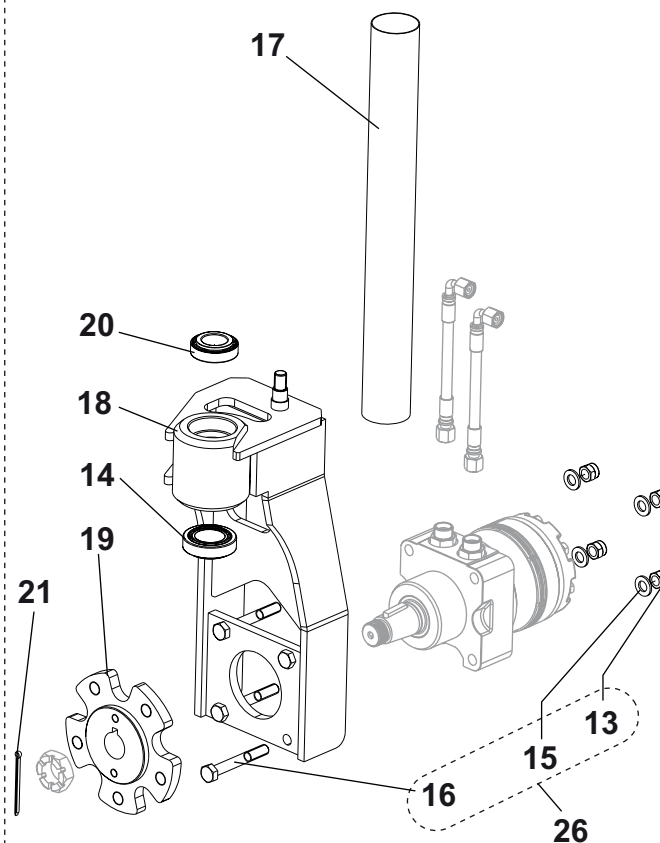
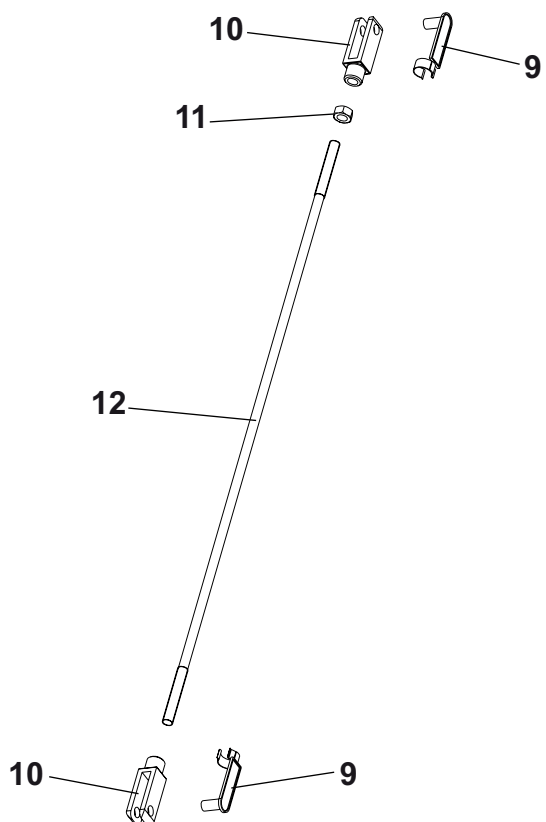


2009-09	CHASSIS ASSEMBLY			
	Proterra™			7

Item	Ref. No.	Qty	Description	Item	Ref. No.	Qty	Description
1		4	WASHER 8X24 UNI6592	48	33017262	1	STATIC STRAP
2		4	WASHER 10X30 UNI6592	49	33017266	2	FLAP WHEEL WELL TOP
3	33003125	1	RING NILOS AV	50		2	SCREW M10X55 UNI5739
4	33003129	2	VIBRATION -DAMPING	51		2	SCREW M12X20 UNI5739
5	33003201	4	SUPPORT SBPP 204	52	33020206	2	BRAKE LINING AND SPRING ASSY
6		9	WASHER 8X24 UNI6593	53	33018539	1	COLLAR DOUBLE D.18
7		3	SCREW M8X16 UNI5739	54	33020204	2	DRUM BRAKE ASSY
8		1	SCREW M8X45 UNI5739	55		3	PLUG BLACK
9		8	SCREW M8X20 UNI5931	56		1	WASHER
10		2	SCREW M6X16 UNI5933	57		1	SCREW M10X45 UNI5933
11		8	SCREW M10X40 UNI5933	58		2	WASHER M24 UNI6592
12		15	SCREW M8X20 UNI5739	59	146 1966 000	1	GASKET
13		2	NUT HEX M10 UNI5588	60	33018790	1	SUPPORT FRONT WHEEL KIT (ITEM 22-11)
14		1	NUT HEX M10 UNI5589	61	33020409	1	CENTRING HARDWARE KIT (ITEM 50-45-18-13-2)
15		9	NUT SELF L. M8 UNI7474	[62]	33020410	1	BRAKE ROD HARDWARE KIT (ITEM9-44)
16		2	NUT SELF L. M10 UNI7474	63	33020411	1	FRONT WHEELS SUPPORT HARDWARE KIT (ITEM 9-28-51)
17		1	NUT SELF L. M24X2 UNI7474	64	33020412	1	REAR WHEEL PIN HARDWARE KIT (ITEM 58-20-17)
18		2	WASHER M10 UNI8842A	[65]	33020332	1	CHASSIS HARDWARE KIT (ITEM 3-13-16 SEE PAGE 9 51-50-58-55-45-44-29-28-20-19-18-17-13-12-11-9-6-2)
19		5	STUD BOLT M 16X1.5	[66]	33018791	1	FIXING GASKETS KIT (ITEM 12-33-34-1-15)
20		1	LUBRICATOR M6	[67]	33020333	1	FLAP HARDWARE KIT (ITEM6-6-12-15-1)
21	33009812	1	PLUG	68	33019212	1	HOPPER STOP KIT (ITEM 57-45-43-38-14-10)
22		2	SPINDLE	[69]	33018866	1	SUPPORT BEARING KIT (ITEM 5-15-8-7-6)
23	33016904	2	CAP				
24	33016909	1	RING NILOS AV				
25	33016910	1	WASHER UPPER				
26	33016911	1	WASHER LOWER				
27	33016912	1	PIN DRIVE YOKE PIVOT				
28		2	WASHER 12X40X4				
29		2	SCREW THREAD ROLLING M6X12				
30		10	SCREW THREAD ROLLING M8X12				
31	33017292	1	CHASSIS WELDED BATTERY				
32	33017057	1	DOOR LEFT WELDED				
33		1	PLATE REAR SEAL				
34		2	PLATE SIDE SEAL				
35	33017113	1	BAR JOINT BRAKE				
36	33017114	1	PLATE BAR JOINT BRAKE				
37	33017168	1	FLAP BROOM CHAMBER HOSES				
38		1	HOPPER SAFETY STOP				
39	33017171	1	FLAP SIDE				
40	33017172	1	FLAP SIDE				
41	33017173	2	FOAM HOPPER SIDE				
42	33017174	1	FLAP REAR BROOM				
43		2	BUSH				
44		6	RIVET PLASTIC				
45		4	CAP VINYL				
46	33017199	1	SPRING				
47	33017220	1	LINKAGE WELDED THROTTLE				

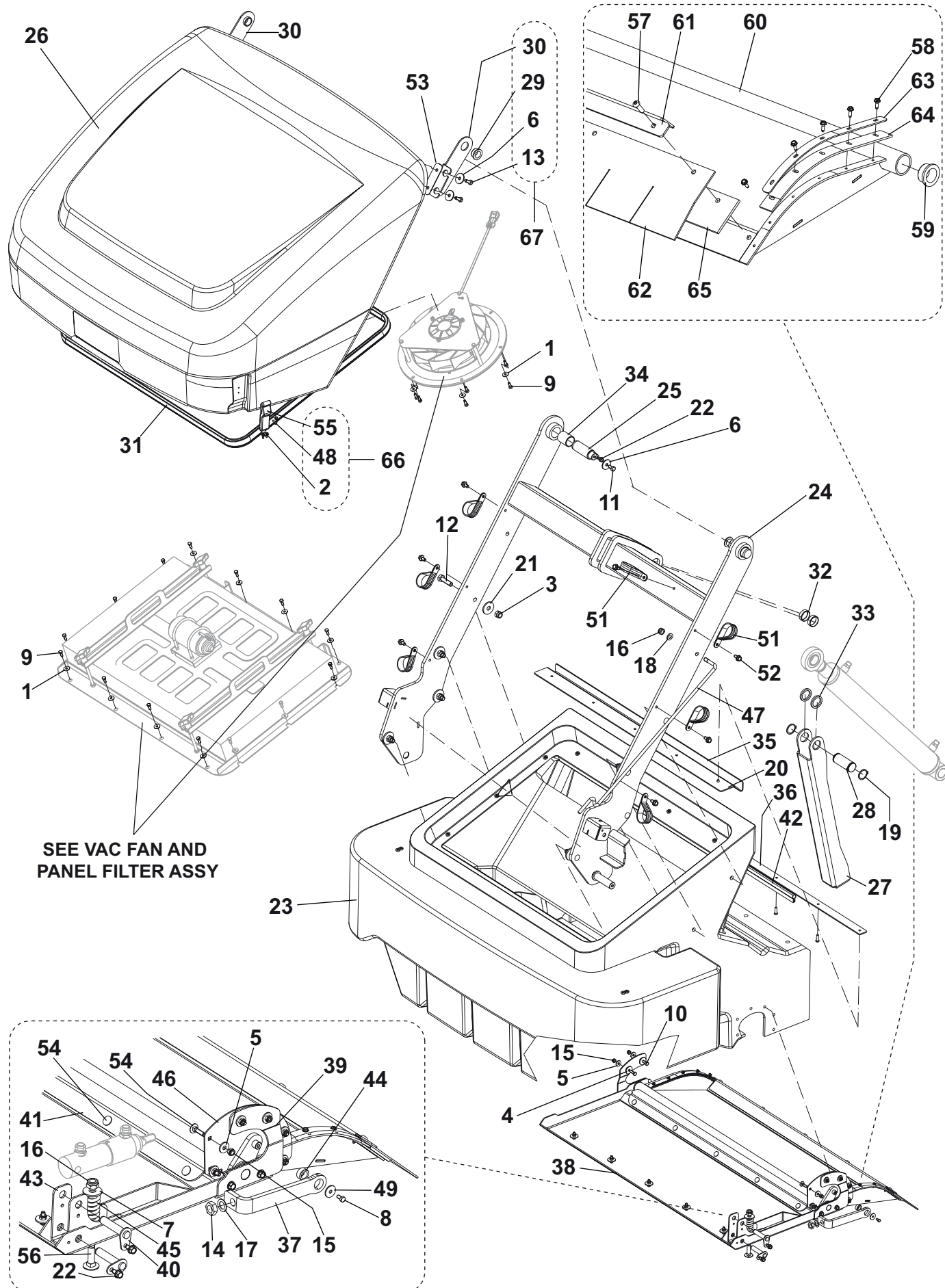


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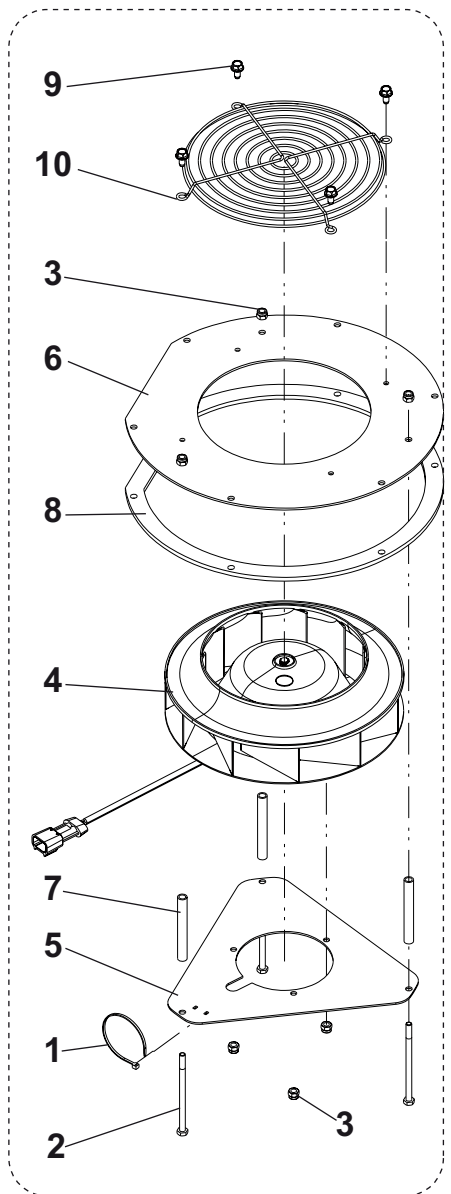
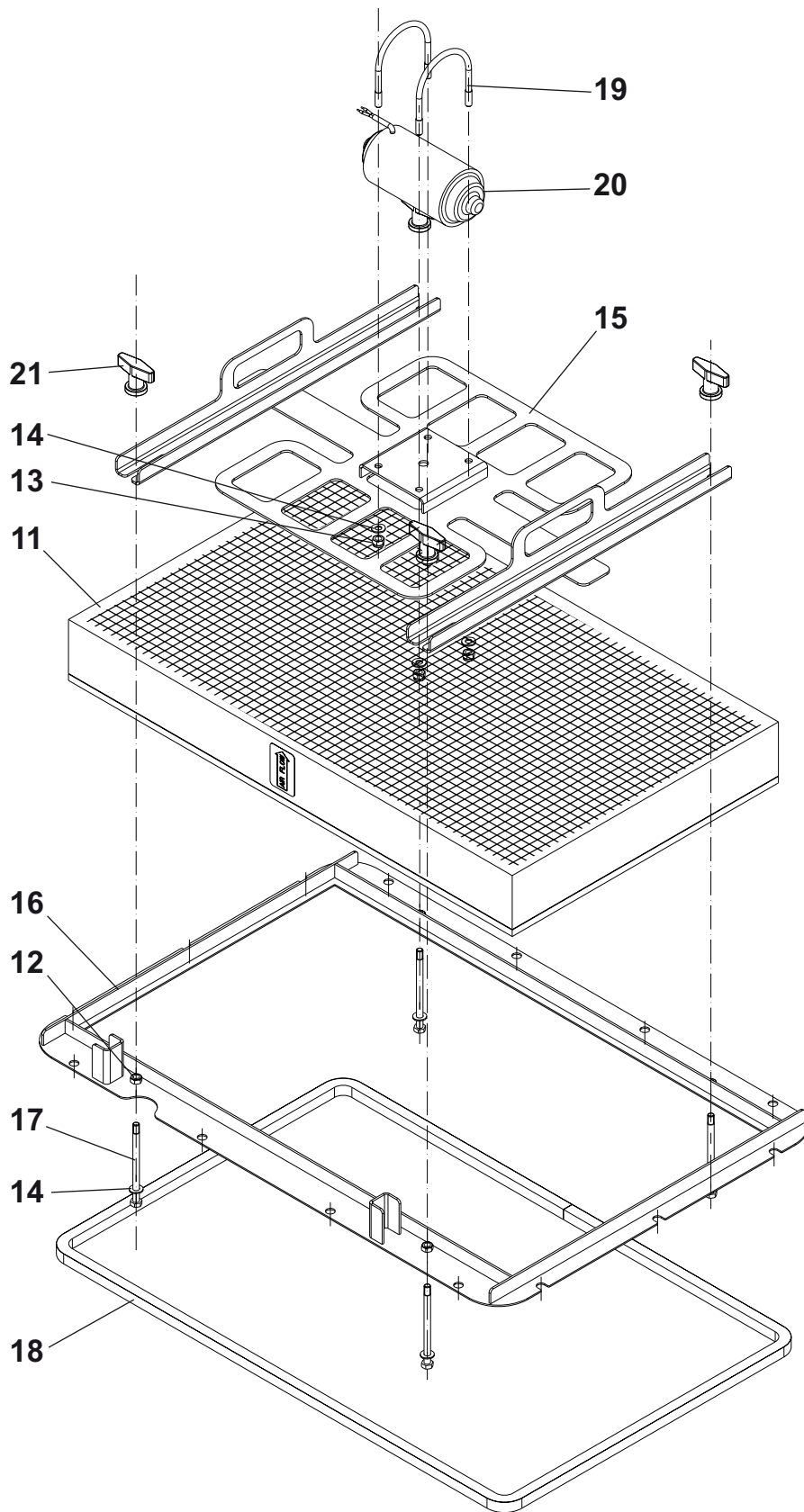
2009-09	CHASSIS COMPONENTS			
2010-09	Proterra™			9

Item	Ref. No.	Qty	Description
1	33016944	2	WHEEL ASM WITH BEARINGS
2	33009648	1	WHEEL SUPERELASTIC 4.00
3		2	SCREW M6X16 UNI5739
4		1	NUT HEX M10 UNI5588
5		1	DOOR RIGHT WELDED
6		1	LATCH SLAM
7	33017128	1	STOP BROOM ARM
8	33017129	1	STOP BROOM ARM
9		4	CLIPS M8
10		4	FORK M8
11		2	NUT HEX M8 UNI5588
12		2	ROD
13		4	NUT SELF L. M12 UNI7473
14	33003175	1	BEARING 32007
15		4	WASHER M12 UNI6592
16		4	SCREW M12X90 UNI5737
17	33015542	1	SHEATH 90 D56 L 500
18		1	YOKE WELDMENT
19	33017103	1	HUB REAR WHEEL
20	145 4691 000	1	BEARING 32006
21		1	PIN COTTER
22	33018794	1	CONNECTION BRAKE KIT (ITEM 9-10-11-12)
[23]	33019101	1	HATCH RIGHT KIT (ITEM 12-6 PAG 5 -5)
24	33018796	1	CLOSING HATCH RIGHT SIDE KIT (ITEM 3-6)
[25]	33018792	1	SUPPORT REAR WHEEL KIT (ITEM 13-15-16-18-21)
26	33020413	1	REAR WHEEL HARDWARE KIT (ITEM 19 PAG 5 -13-15-16)
27#	33021739	3	TUBE INNER
28#	33021740	2	TYRE FRONT
29#	33021738	1	TYRE REAR



2009-09	HOPPER SYSTEM			
	Proterra™			11

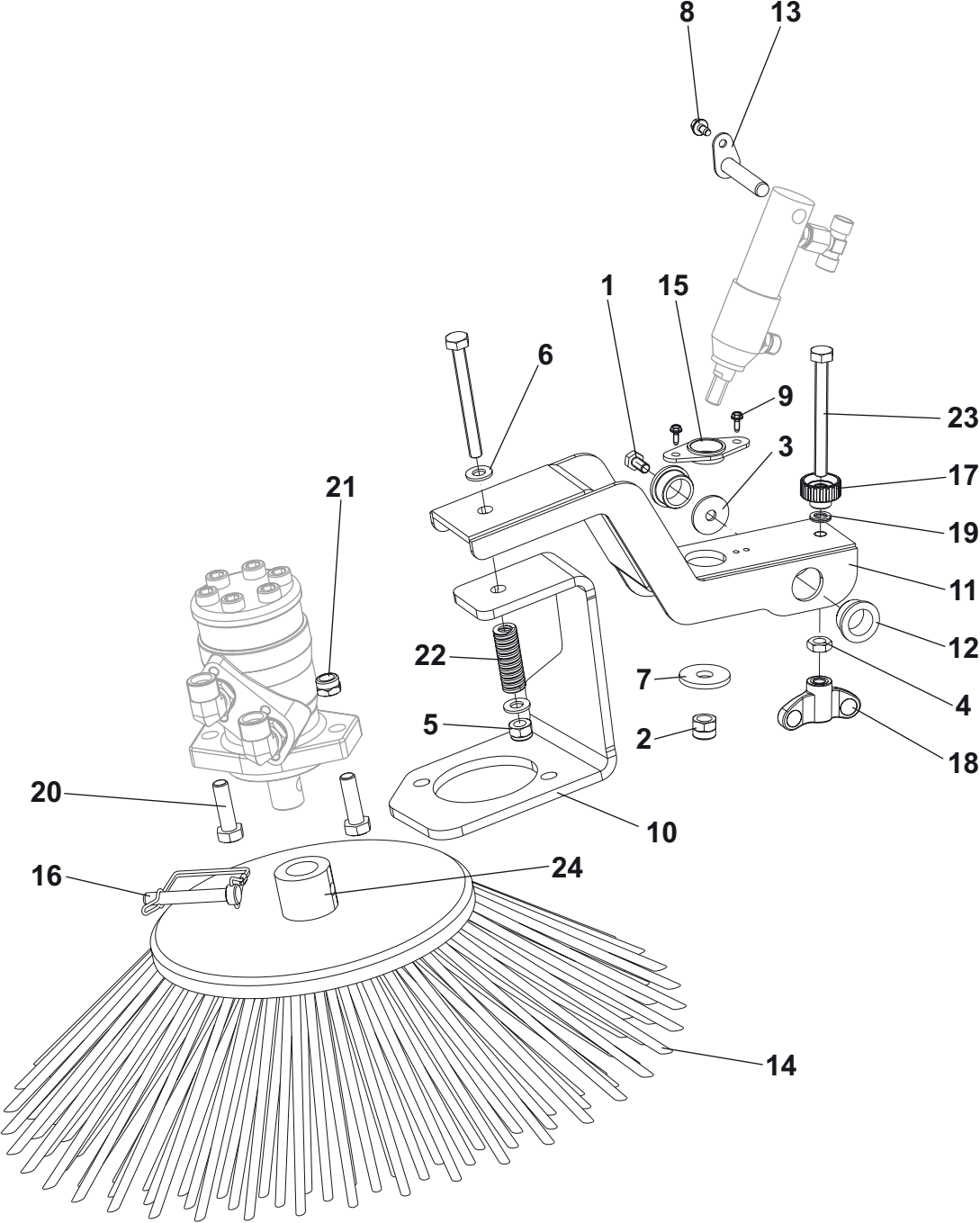
Item	Ref. No.	Qty	Description	Item	Ref. No.	Qty	Description
1		20	WASHER 6X18 UNI6592	48		4	SCREW 4.8X16 UNI6954
2		4	SCREW M4X12 UNI7687	49		1	WASHER FLAT XL
3		8	NUT SELF L. M12 UNI7473	51#		7	CLAMP HOSE D.45
4		7	WASHER 6X24 UNI6593	52		7	SCREW THREAD ROLLING
5		13	WASHER 6X18 UNI6593	53	33020011	2	PLATE OF CONTRAST
6		6	WASHER 8X32 UNI6593	54		13	SCREW M6X25 UNI5731
7		1	WASHER 10X30 UNI6593	55		2	LATCH
8		1	SCREW M5X10 UNI5739	56		1	SCREW M10X60 UNI5731
9		20	SCREW M6X16 UNI5739	57		5	SCREW M6X20 ISO7380
10		2	SCREW M6X20 UNI5739	58		10	SCREW THREAD ROLLING
11		2	SCREW M8X16 UNI5739	59		2	BUSH
12		8	SCREW M12X45 UNI5739	60		1	DOOR WELDED
13		4	SCREW M8X20 UNI5739	61	33017201	1	SKIRT STRAP DOOR
14		1	NUT HEX M12 UNI5589	62		1	SKIRT REAR DOOR
15		18	NUT SELF L. M6 UNI7474	63	33017240	2	STRAP DOOR SIDE SKIRT
16		2	NUT SELF L. M10 UNI7474	64		2	SKIRT DOOR SIDE
17		1	WASHER M12 UNI8842A	65		1	GASKET HOPPER DOOR
18		1	WASHER M10 UNI6592	[65]	33017366	1	HARNESS HOPPER
19		2	RING D 30 UNI7435	66	33018803	1	LATCH KIT (ITEM 55-2-48)
20		5	SCREW M6X20 ISO7380	67	33019115	1	HINGES BONNET KIT (ITEM 13-6-29-30)
21		8	WASHER 12X40X4	[68]	33019116	1	CLAMPS HOSES FIXING KIT (ITEM 50-51-52)
22		8	SCREW THREAD ROLLING	[69]	33018799	1	PLATE CONTAINER KIT (ITEM 35-36-20)
23	33017058	1	HOPPER	[70]	33018800	1	MECHANISM LIFTING KIT (ITEM 7-49-8-14-16-22-37-40-43-44-45-56-17)
24	33017059	1	ARM HOPPER	[71]	33019118	1	SKIRT HATCH CONTAINER KIT (ITEM 15-58-59-60-54-61-62-63-64)
25	33017060	2	PIN HOPPER PIVOT	[72]	33019117	1	GASKETS HATCH KIT (ITEM 64-62-65)
26	33017061	1	COVER HOPPER MOLDED	[73]	33020414	1	HOPPER BOTTOM HARDWARE KIT (ITEM 9-17-15-12-10-5-4-29)
27	33017108	1	BAR SECURITY	[74]	33020415	1	HARDWARE SUPPORT KIT (ITEM-3-9-13-20-19-29)
28		1	PIN SECURITY BAR	[75]	33020334	1	HOPPER HARDWARE KIT (ITEM 1-29-20-19-17-15-13-12-10-9-5-4-3)
29		2	BUSH	[76]	33018798	1	HARDWARE LIFTING CONTAINER (ITEM 6-22-25-34-33-32-19-11)
30		2	BRACKET HOPPER COVER	[77]	33018801	1	FIXING ROD CONTAINER (ITEM 47-16-18)
31	33017126	1	SEAL HOPPER COVER L 2930				
32		2	BUSH				
33		2	SPACER				
34		2	BUSH				
35		1	PLATE HOPPER TOP				
36		1	STRAP DOOR PIVOT FLAP				
37		1	ARM FLAP				
38	33017138	1	PLATE HOPPER BUTTOM				
39	33017139	2	PIN HOPPER DOOR				
40		2	PIN				
41	33017229	1	PLATE HOPPER FLAP				
42	33017257	1	TRIM EDGE BULB L 900MM				
43		1	CYLINDER BRAKET				
44		1	BEARING				
45		1	SPRING				
46	33017288	1	PLATE W/BOLTS				
47		1	ROD COVER PROP				



2009-09	VAC FAN AND PANEL FILTER ASSY			
	Proterra™			13

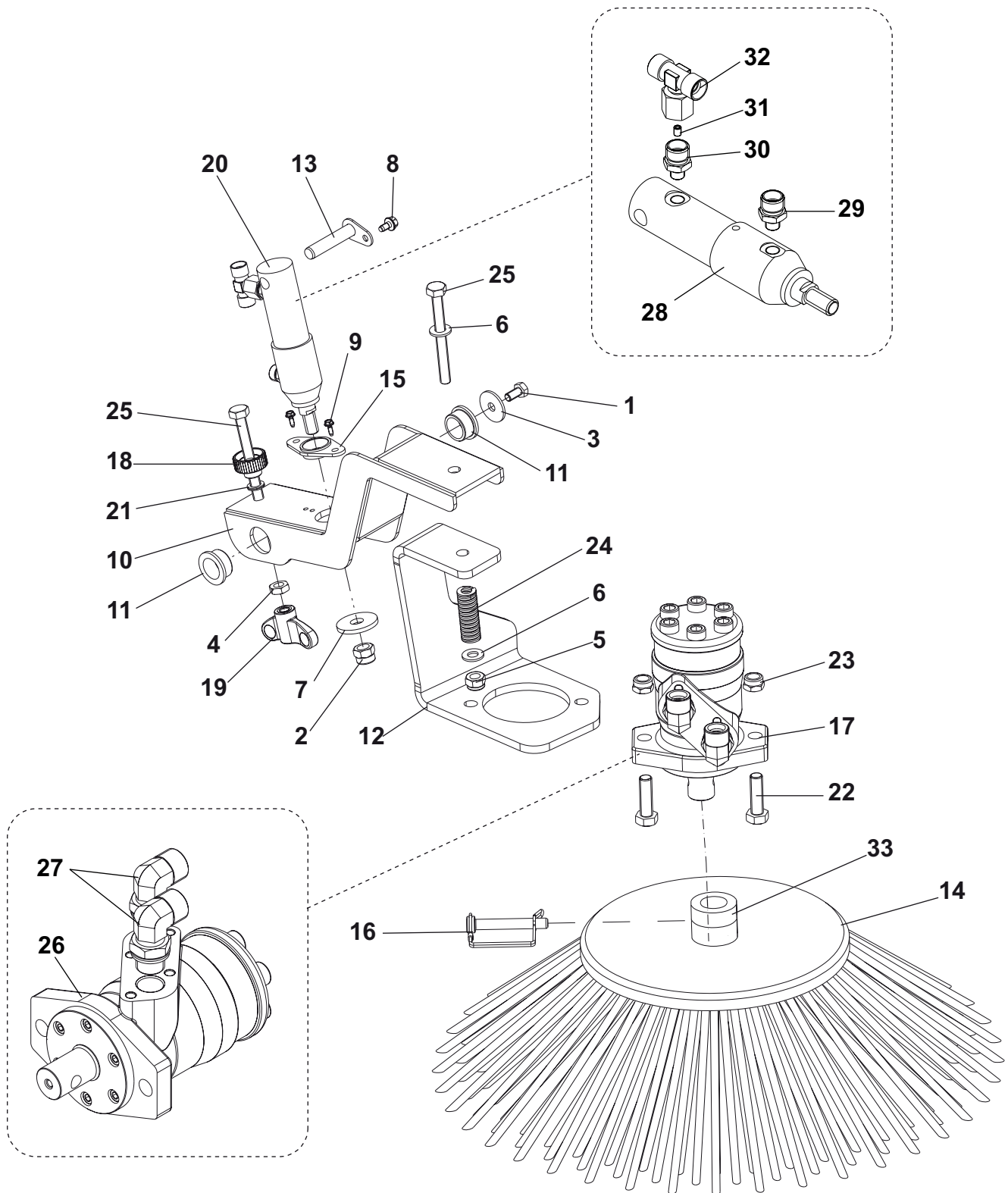
Item	Ref. No.	Qty	Description
1		1	CABLE TIE
2		3	SCREW M6X100 UNI5737
3		6	NUT SELF L. M6 UNI7473
4	33015700	1	FAN MOTOR VACUUM 48V (M1)
5		1	SUPPORT
6		1	SUPPORT
7		3	SPACER
8	33016950	1	GASKET
9		4	SCREW THREAD ROLLING
10		1	GRILL
11	8-24-04139-1	1	PANEL FILTER
11*	8-24-04139-2	1	PANEL FILTER WATER RESISTENT
12		4	NUT SELF L. 5/16"UNC
13		4	NUT SELF L. M8 UNI7473
14		8	WASHER M8 UNI6592
15	33017118	1	PLATE LOCK SHAKER
16	33017119	1	FRAME PANEL FILTER
17		4	SCREW 5/16"X4,5" UNC
18	33018634	1	GASKET FILTER ASSY L 2560
19		2	CLAMP
20	33017232	1	MOTOR FILTER SHAKER 48V (M2)
21	9098257000	4	NUT THUMB SQUEEGEE FIXING
[22]	33018804	1	FIXING ELECTROFAN KIT (ITEM 1-2-3-5-6-7)
[23]	33018805	1	GRILL ELECTROFAN KIT (ITEM 9-10)
[24]	33020335	1	PANEL FILTER HARDWARE KIT (ITEM 19-17-14-13-12)

			RT SIDE BROOM ASSY	2009-09
	14	Proterra™		2010-09



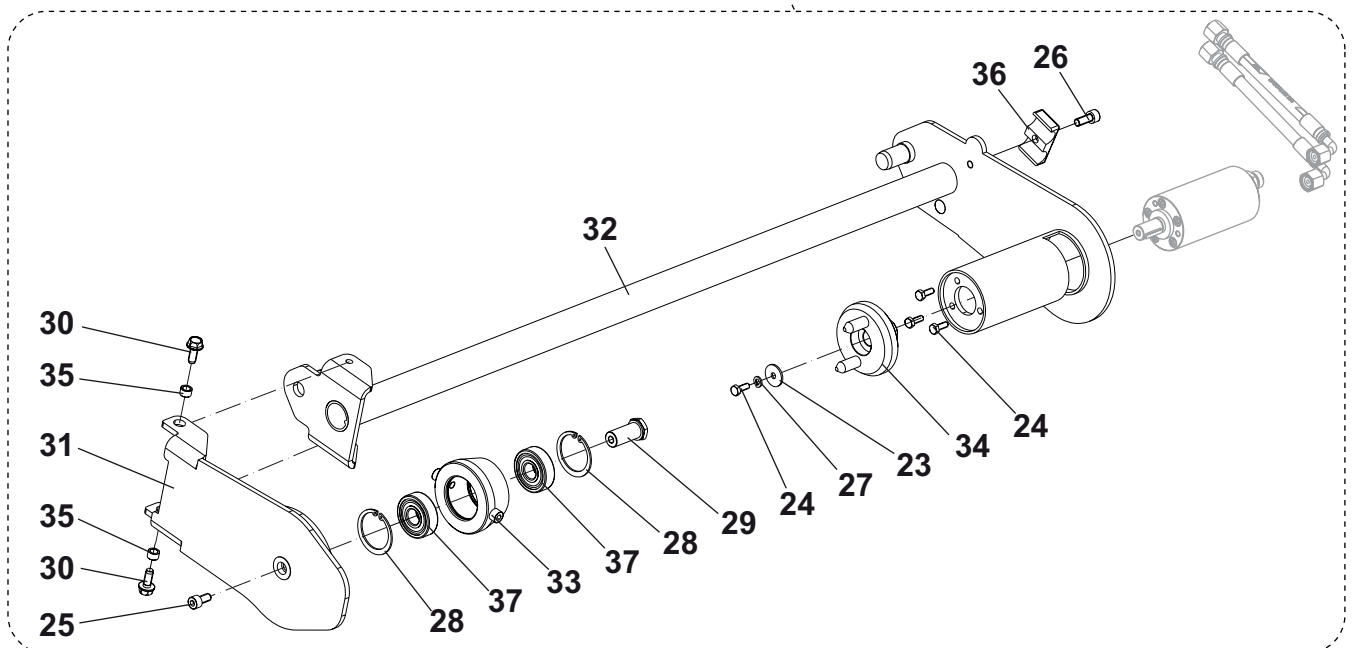
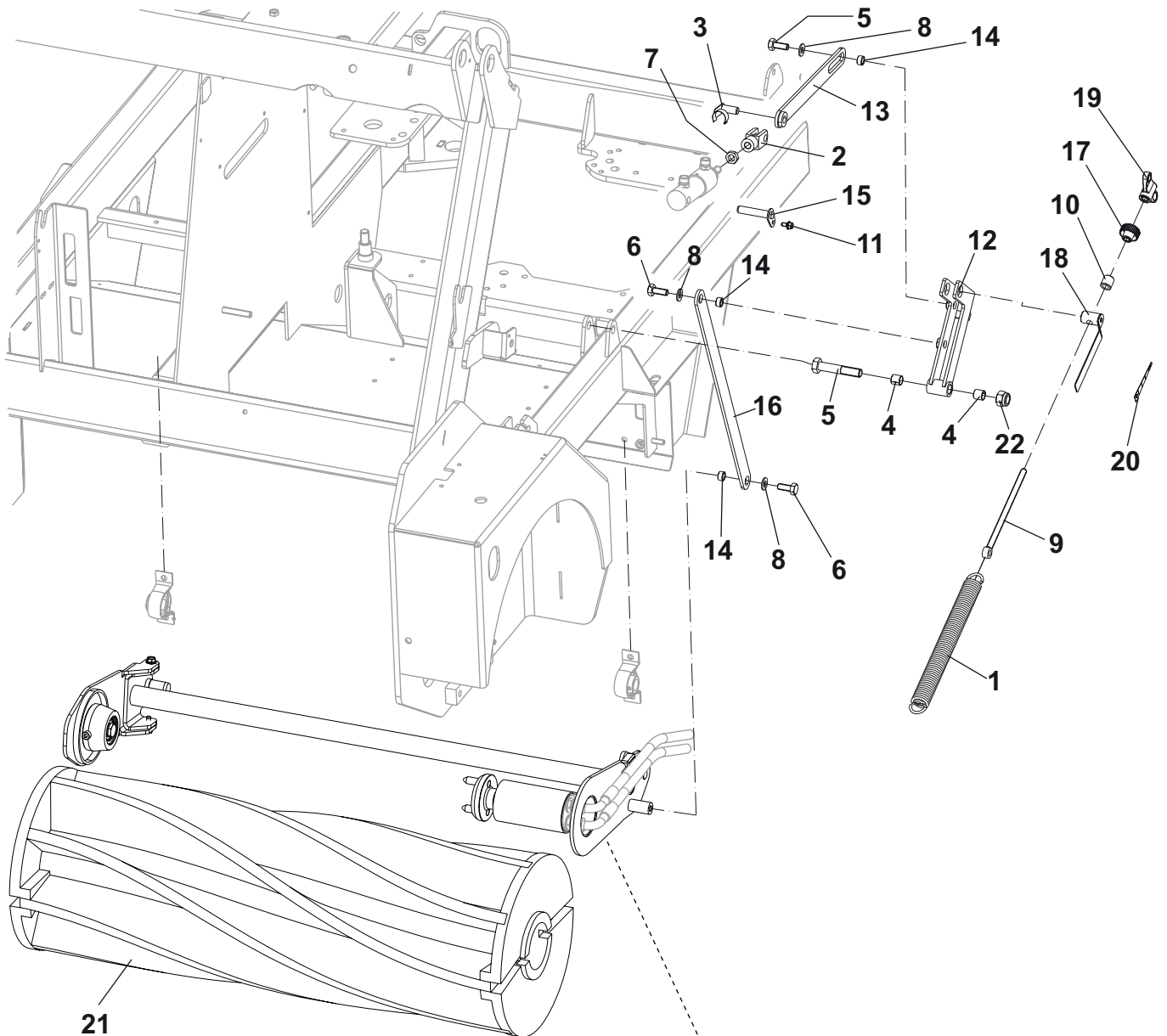
2009-09	RT SIDE BROOM ASSY			
2010-09	Proterra™			15

Item	Ref. No.	Qty	Description
1		1	SCREW M8X16 UNI5739
2		1	NUT SELF L. M12 UNI7473
3		1	WASHER 8X32 UNI6593
4		1	NUT HEX M10 UNI5589
5		1	NUT SELF L. M10 UNI7473
6		2	WASHER M10 UNI6592
7		1	WASHER 12X40X4
8		1	SCREW THREAD ROLLING
9		2	SCREW THREAD ROLLING
10	33017107	1	SUPPORT RIGHT SIDE MOTOR
11	33017115	1	ARM SIDE BROOM
12		2	BUSH
13		1	PIN
14	33017255	1	BROOM SIDE PPL 1,4-1,7
14*	33018889	1	BROOM SIDE PPL 1,5/STEEL
14*	33018890	1	BROOM SIDE NYLON 0,5
15		1	BUSHING SLIDE FLANGE
16	33017290	1	PIN CLEVIS W/LOOP 8MM
17	33017889	1	KNOB M10
18	33018333	1	NUT WING M10
19		1	WASHER NORD LOCK M10
20		2	SCREW M12X40 UNI5739
21		2	NUT SELF L. M12 UNI7474
22	146 1317 000	1	SPRING
23		2	SCREW M10X100 UNI5739
24#	33020628	1	HUB BROOM
[25]	33020336	1	SUPPORT HARDWARE KIT (ITEM 23-21-20-22-6-5-4)
[26]	33020337	1	SIDE BROOM CYLINDER HARDWARE KIT (ITEM 15-13-9-8-7-2)
[27]	33020338	1	SETTING SIDE BROOM HARDWARE KIT (ITEM 23-19-18-17-7-1-3-12)



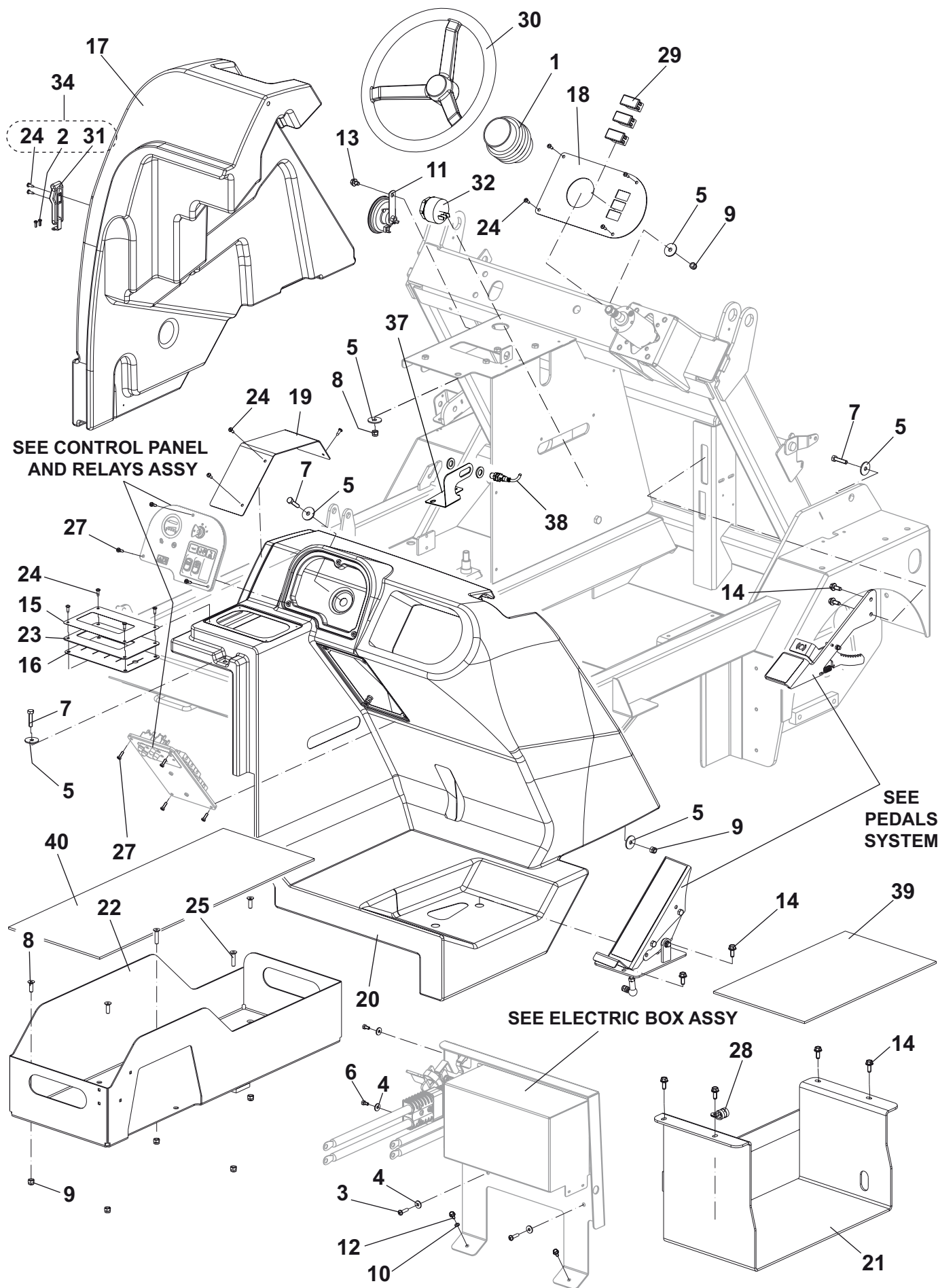
2009-09	LT SIDE BROOM ASSY			
2010-09	Proterra™			17

Item	Ref. No.	Qty	Description
1		1	SCREW M8X16 UNI5739
2		1	NUT SELF L. M12 UNI7473
3		1	WASHER 8X32 UNI6593
4		1	NUT HEX M10 UNI5589
5		1	NUT SELF L. M10 UNI7473
6		2	WASHER M10 UNI6592
7		1	WASHER 12X40X4
8		1	SCREW THREAD ROLLING
9		2	SCREW THREAD ROLLING
10	33017115	1	ARM SIDE BROOM
11		2	BUSH
12	33017117	1	SUPPORT LEFT SIDE MOTOR
13		1	PIN
14	33017255	1	BROOM SIDE PPL 1,4-1,7
14*	33018889	1	BROOM SIDE PPL 1,5/STEEL
14*	33018890	1	BROOM SIDE NYLON 0,5
15		1	BUSHING SLIDE FLANGE
16	33017290	1	PIN CLEVIS W/LOOP 8MM
17	33018807	1	MOTOR SIDE BROOM KIT
18	33017889	1	KNOB M10
19	33018333	1	NUT WING M10
20#	33021766	1	LEFT SIDE BROOM CYLINDER KIT (ITEM 28-29-30-31-32)
21		1	WASHER NORD LOCK M10
22		2	SCREW M12X40 UNI5739
23		2	NUT SELF L. M12 UNI7474
24	146 1317 000	1	SPRING
25		2	SCREW M10X100 UNI5739
26	33017003	1	MOTOR SIDE BROOM
27	33015874	2	ELBOW 90 M1/2
28#	33020608	1	MICRO CYLINDER
29	33018375	1	FITTINGS 1/8"
30	33018222	1	FITTING 1/8
31	33018215	1	DOWEL M5X6 DIAM 0,5
32#	146 0507 000	1	PIPE FITTING T D.10
33#	33020628	1	HUB BROOM
[34]*	33019173	1	LEFT SIDE BROOM KIT
[35]	33018767	1	INSTRUCTIONS ASSEMBLY
[36]	33020336	1	SUPPORT HARDWARE KIT (ITEM 25-23-21-22-6-5-4)
[37]	33020337	1	SIDE BROOM CYLINDER HARDWARE KIT (ITEM 15-13-9-8-7-2)
[38]	33020338	1	SETTING SIDE BROOM HARDWARE KIT (ITEM 23-19-18-7-1-3-11)
[39]#	33020754	1	GASKETS HYDRAULIC MOT.KIT FOR 33017003 (ITEM 26)



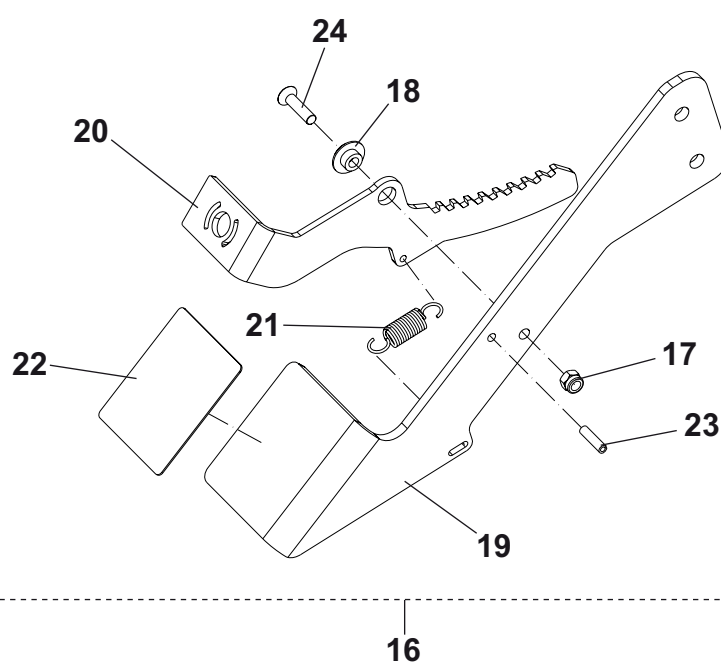
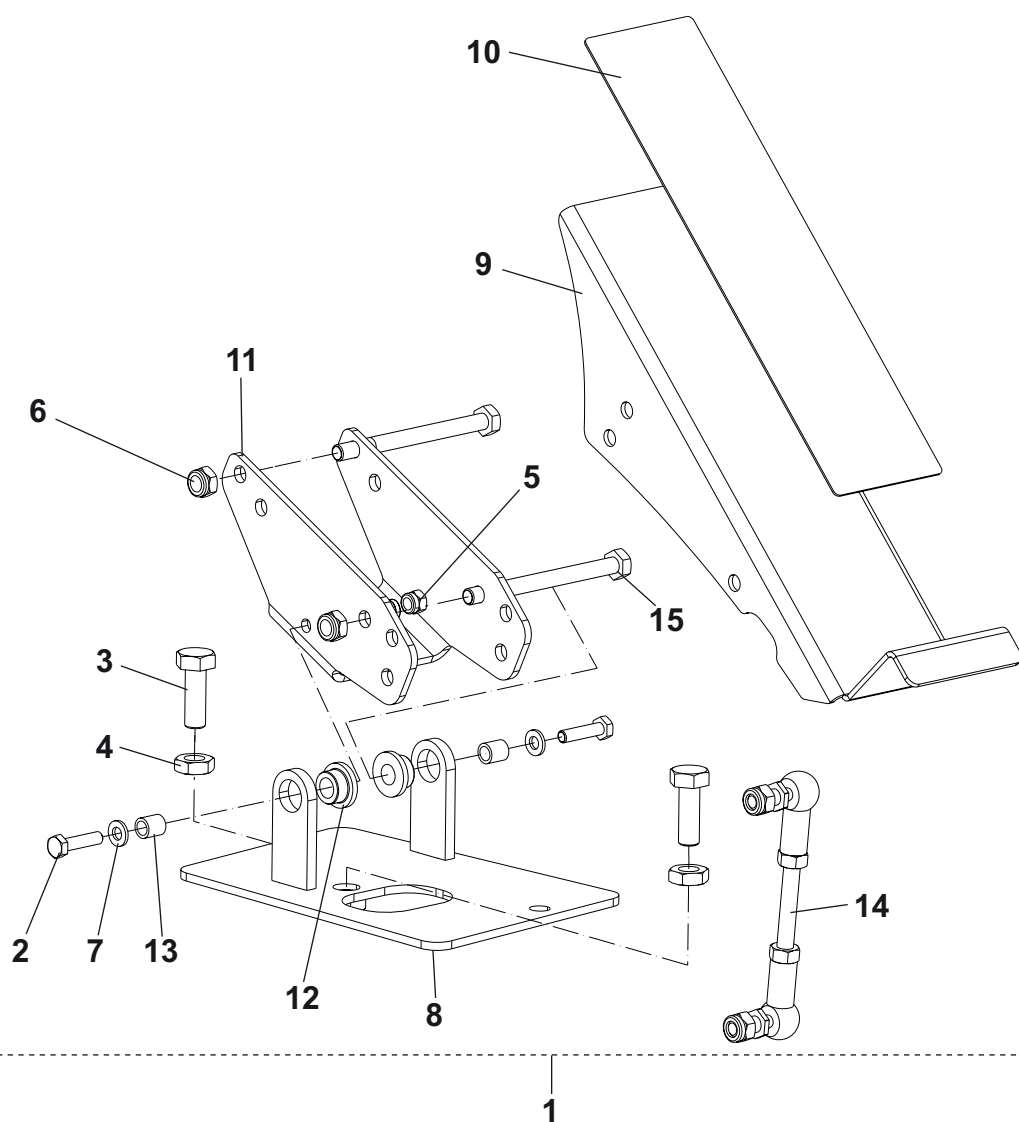
2009-09	MAIN BROOM SYSTEM			
	Proterra™			19

Item	Ref. No.	Qty	Description
1	33002106	1	SPRING MAIN BROOM
2		1	FORK M12
3		1	CLIP 12
4		2	BUSHING DU 14X16X15
5		1	SCREW M14X70 UNI5737
6		3	SCREW M10X25 UNI5739
7		1	NUT HEX M12 UNI5589
8		3	WASHER M10 UNI6592
9		1	TIE ROD M10 L170
10		1	SPACER D11 H18
11		1	SCREW THREAD ROLLING
12		1	LEVER WELDED
13		1	CABLE
14		3	SPACER
15		1	PIN
16		1	BAR
17		1	KNOB M10
18		1	PIN LEVER MAIN BROOM
19		1	NUT WING M10
20		1	DECAL PRESSURE MAIN BROOM
21	33018858	1	BROOM MAIN SPIRAL PPL 0.5 WHITE NAVY/STEEL 0.36
21*	33018856	1	BROOM MAIN SPIRAL NYLON 1.2
21*	33018857	1	BROOM MAIN SPIRAL PPL 0.5 WHITE NAVY
21*	33018859	1	BROOM MAIN SPIRAL UNION MIX
22		1	NUT SELF L. M14 UNI7473
23		1	WASHER 6X24 UNI6593
24		4	SCREW M6X16 UNI5739
25		1	SCREW M8X16 UNI5931
26		1	SCREW M8X20 UNI5931
27		1	WASHER M6 UNI1751B
28		2	RING D 47 UNI7437
29		1	PIN
30		2	SCREW THREAD ROLLING
31	33017007	1	BROOM ARM WELDED
32	33017019	1	SUPPORT WELDED
33	33017140	1	MAIN BROOM IDLE HUB
34	33017141	1	HUB
35		2	SPACER
36		1	COLLAR DOUBLE D.18
37		2	BEARING 6303 2RS
[38]	33018871	1	SUPPORT MOTOR KIT (ITEM 25-30-31-32-35-26-36)
[39]	33018870	1	BALL BEARING KIT (ITEM 37-23-24-27-28-29-33-34)
[40]	33018865	1	PLATE MAIN BROOM KIT (ITEM 2-3-6-8-7-15-13-14-11)
[41]	33018868	1	LEVER WELDED KIT (ITEM 12-22-5-4)
[42]	33018867	1	ROD SPRING KIT (ITEM 9-10-17-18-19-20)
[43]	33018869	1	ROD LEVER KIT (ITEM 16-6-8-14)



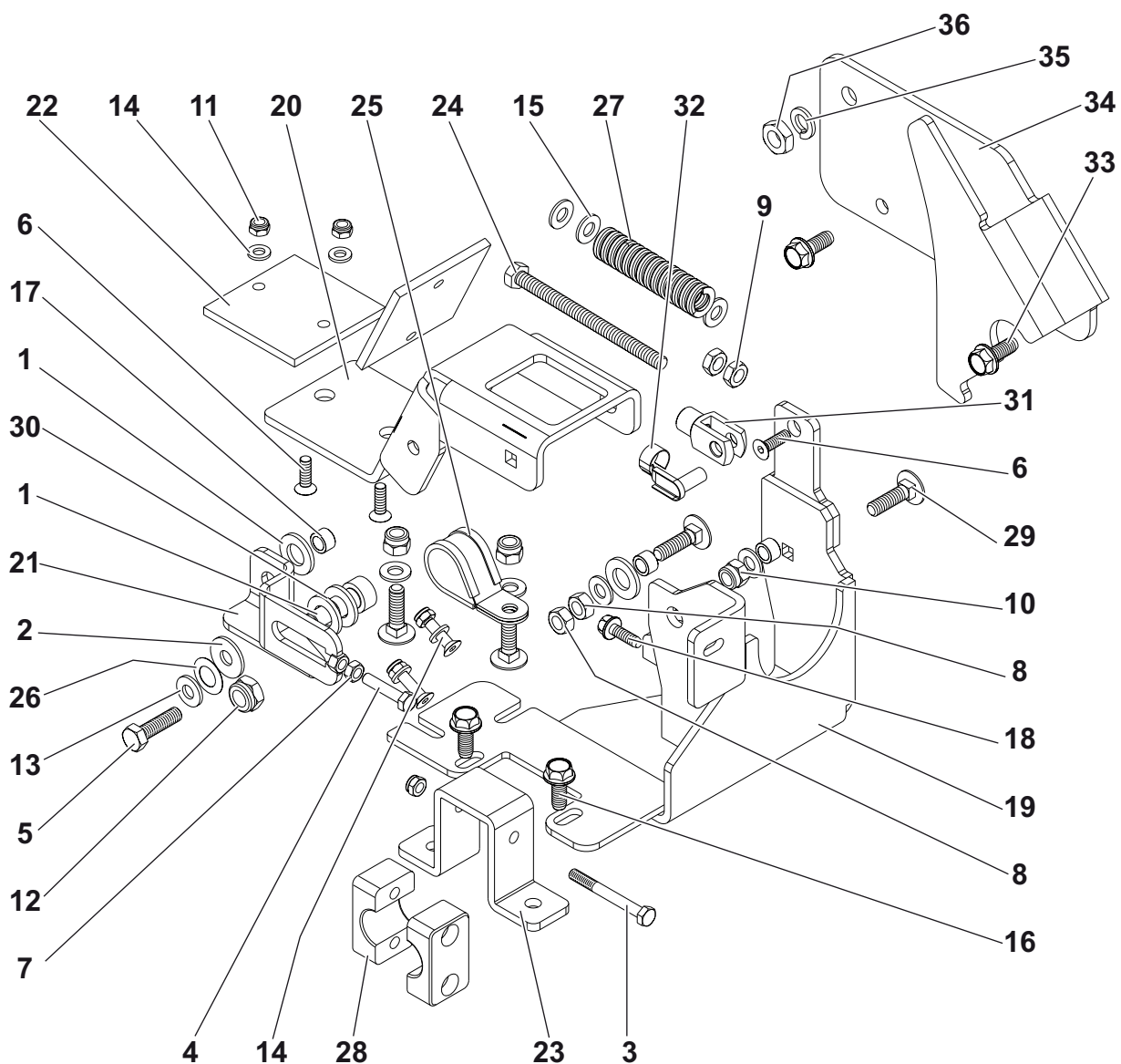
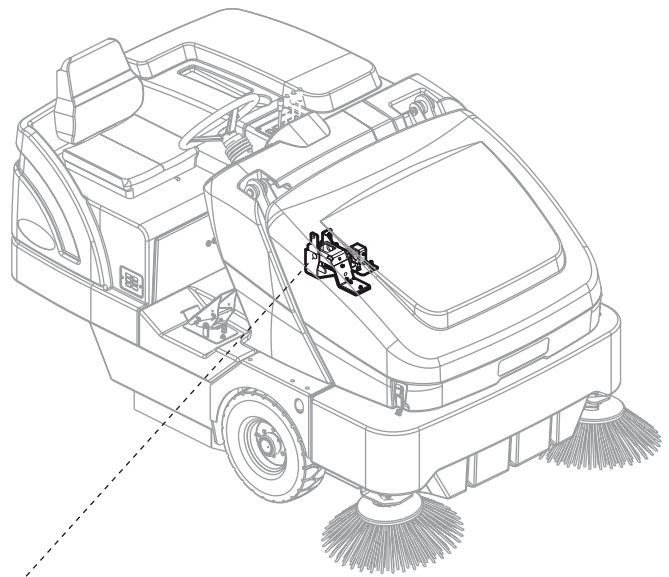
2009-09	ASSY CONTROL			
2010-09	Proterra™			21

Item	Ref. No.	Qty	Description
1	8-33-02360	1	HOLE HEAT SHIED
2		2	SCREW M4X12 UNI7687
3		2	SCREW 6X25
4		4	WASHER 6X18 UNI6593
5		6	WASHER 8X32 UNI6593
6		2	SCREW M6X12 UNI5739
7		3	SCREW M8X35 UNI5739
8		3	SCREW M8X25 UNI5933
9		8	NUT SELF L. M8 UNI7473
10		1	WASHER M6 UNI8842A
11	33009017	1	HORN 48V (HN)
12		2	SCREW THREAD ROLLING
13		1	SCREW THREAD ROLLING
14		8	SCREW THREAD ROLLING
15	33017053	1	DECAL MANIFOLD BATTERY
16	33017164	1	FLAP LEVER COVER
17	33017169	1	COVER SIDE ROTOMOLD
18	33017224	1	COVER PLATE NON TILT
19	33017246	1	PLATE
20	33017256	1	CONSOLE
21	33017263	1	PLATE
22	33017264	1	SUPPORT LEFT
23	33017291	1	PLATE MANIFOLD BATT MACH
24		13	SCREW 4.8X16 UNI6954
25		2	SCREW M8X35 UNI5933
[26]	33017376	1	HARNES MAIN BATTERY
27		7	SCREW M5X16 UNI7687
28	146 2517 000	1	CHOCK RUBBER
29	909 5836 000	3	CAP
30	33018170	1	STEERING WHEEL
31		1	LATCH
32*	33019574	1	BACKUP ALARM KIT (BZ1)
[33]	33019168	1	INSTRUCTIONS ASSEMBLY
34	33018803	1	LATCH KIT (ITEM 31-2-24)
[35]	33020341	1	CONTROL LEFT HARDWARE KIT (ITEM 24-14-13-9-7-5-2)
[36]	33020342	1	CONTROL RIGHT HARDWARE KIT (ITEM 27-25-24-14-13-12-10-9-8-7-6-5-4-3-2)
37	33017439	1	BRACKET SENSOR
38	33018521	1	SWITCH BACK UP PROXIMITY (SW4)
39#	33020544	1	MAT BATTERY RIGHT
40#	33020545	1	MAT BATTERY LEFT



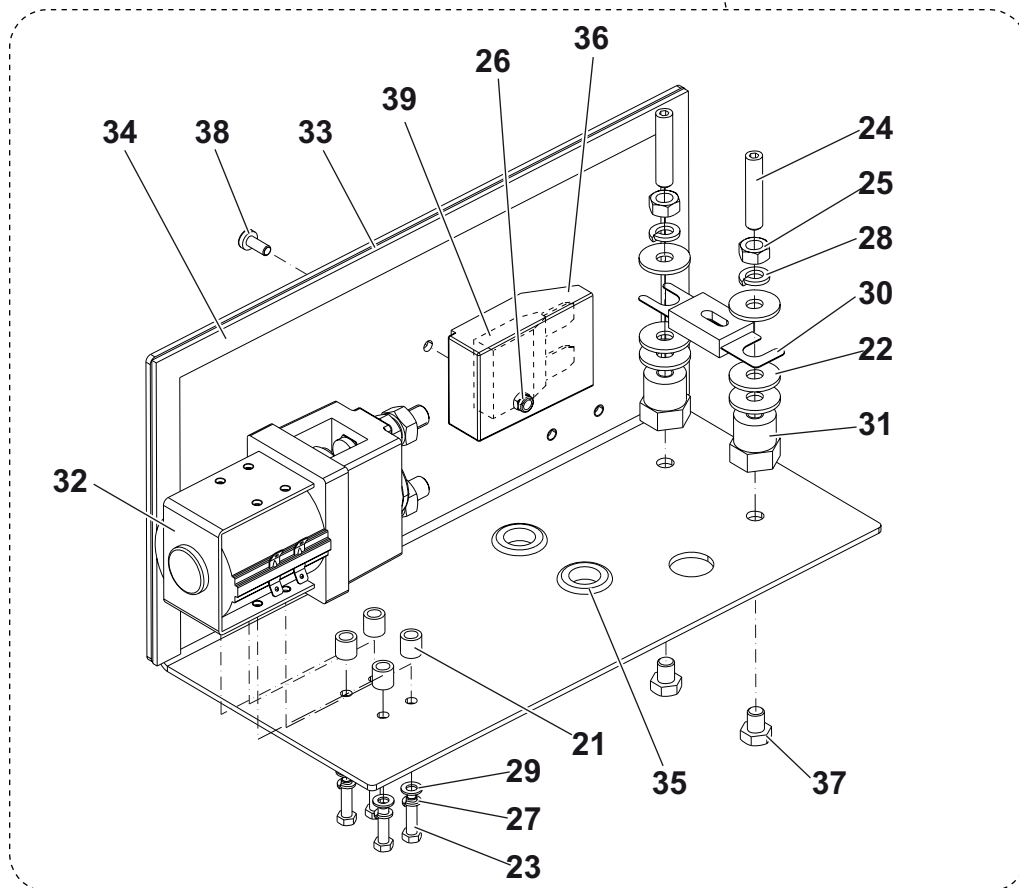
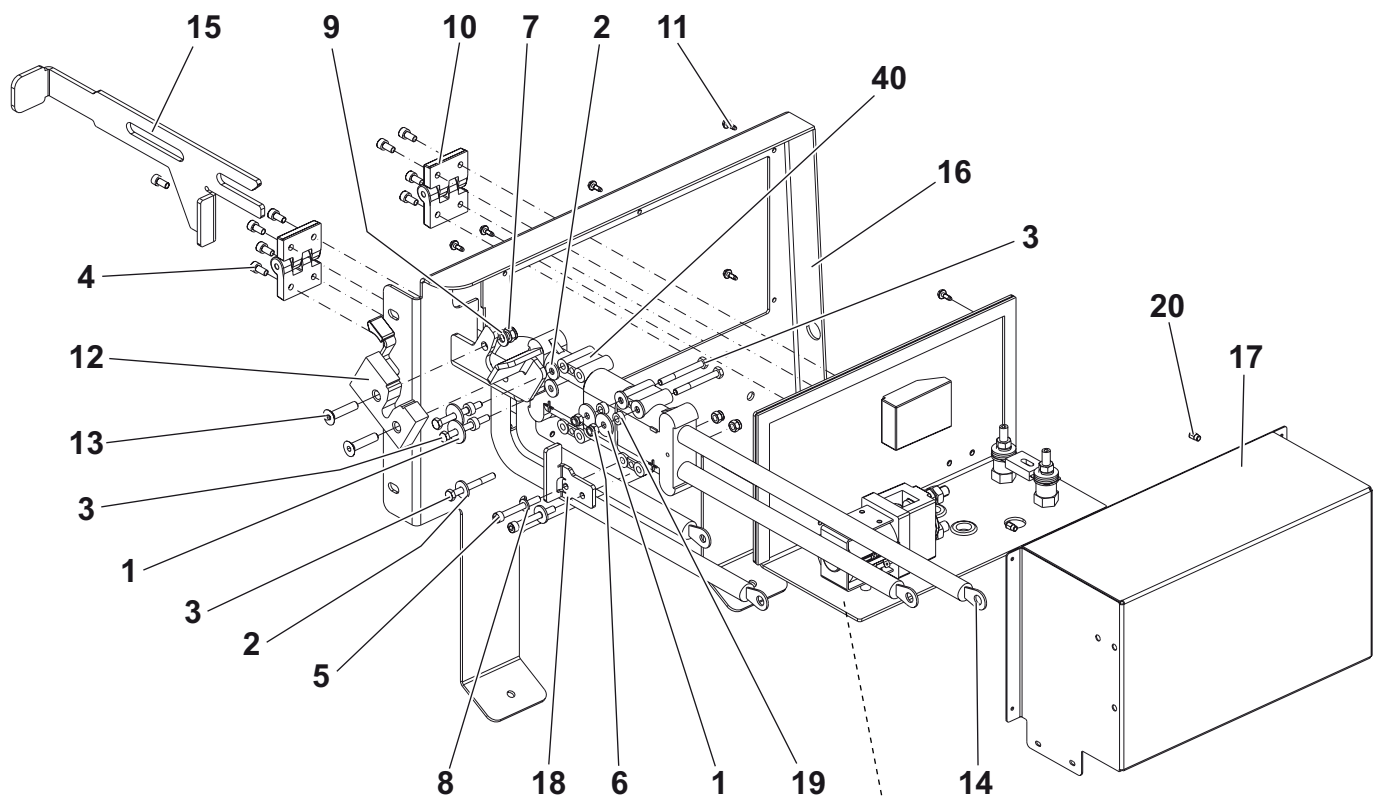
2009-09	PEDALS SYSTEM			
	Proterra™			23

Item	Ref. No.	Qty	Description
1	33018841	1	FOOT PEDAL UPPER KIT (ITEM 2-3-4-5-6-7-8-9-10-11-12-13-14-15-25)
2		2	SCREW M6X25 UNI5739
3		2	SCREW HEX M10X30 UNI5739
4		2	NUT HEX M10 UNI5589
5		2	NUT SELF L. M6 UNI7473
6		2	NUT SELF L. M8 UNI7474
7		2	WASHER M6 UNI6592
8	33017203	1	MOUNT WELDED PEDAL
9	33017204	1	FOOT PEDAL UPPER
10	33017205	1	MAT PEDAL
11	33017206	1	FOOT PEDAL LOWER
12	33017216	2	BEARING
13	33017217	2	BUSHING
14	33018842	1	CONNECTION PEDAL KIT (ITEM 26-27-28-29)
15		2	SCREW M8X95 UNI5737
16	33018845	1	PEDAL BRAKE KIT (ITEM 17-18-19-20-21-22-23-24)
17		1	NUT SELF L. M6 UNI7473
18	33017178	1	BUSH
19	33017197	1	PEDAL BRAKE
20	33017198	1	PARKING BRAKE LEVER
21	33017199	1	SPRING
22	33017259	1	MAT PEDAL
23		1	PIN SPRING 5X20
24		1	SCREW M6X25 UNI5933
[25]	33020416	1	PEDAL WARDWARE KIT (ITEM 3-12-7-6-5-4-3-2)
[26]		2	NUT HEX M8 UNI5588
[27]		2	DADO AUTOB M8
[28]		1	BARRA FILETTATA
[29]		2	JOINT BALL M8



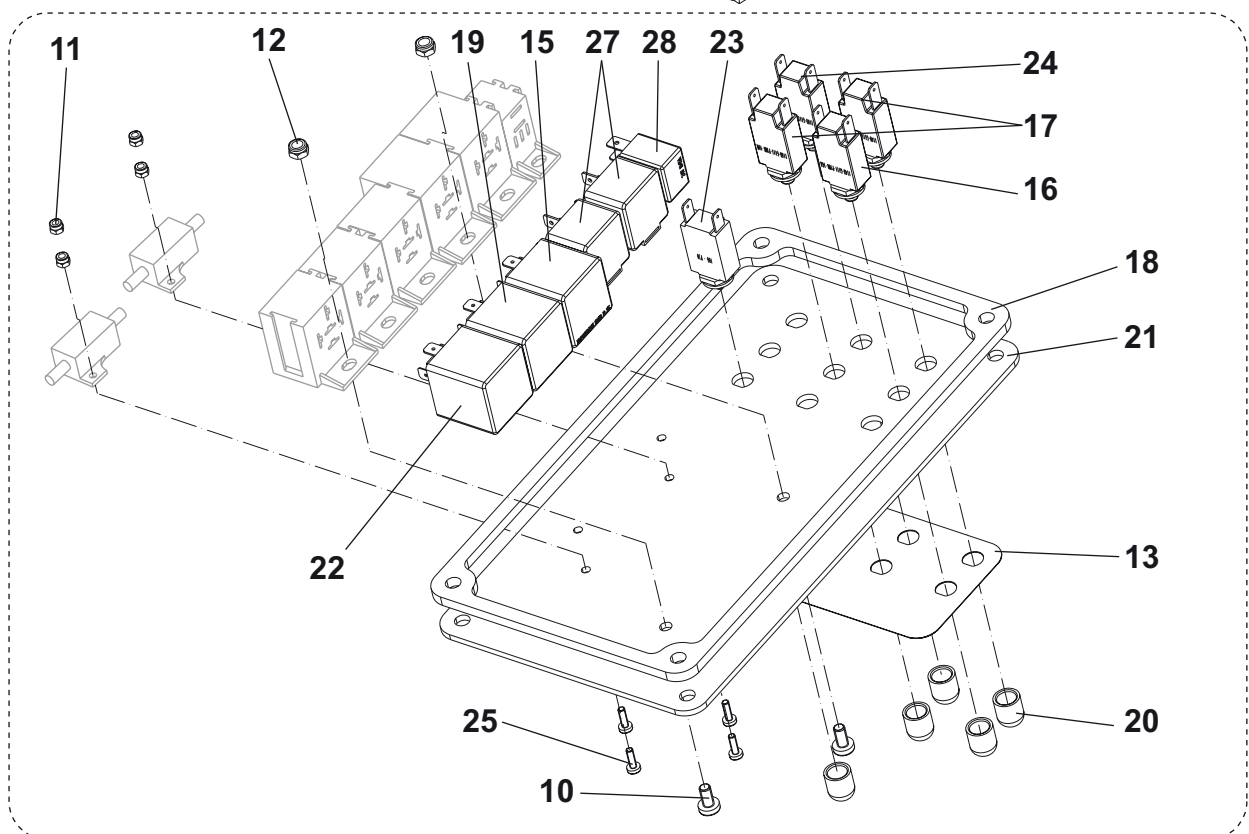
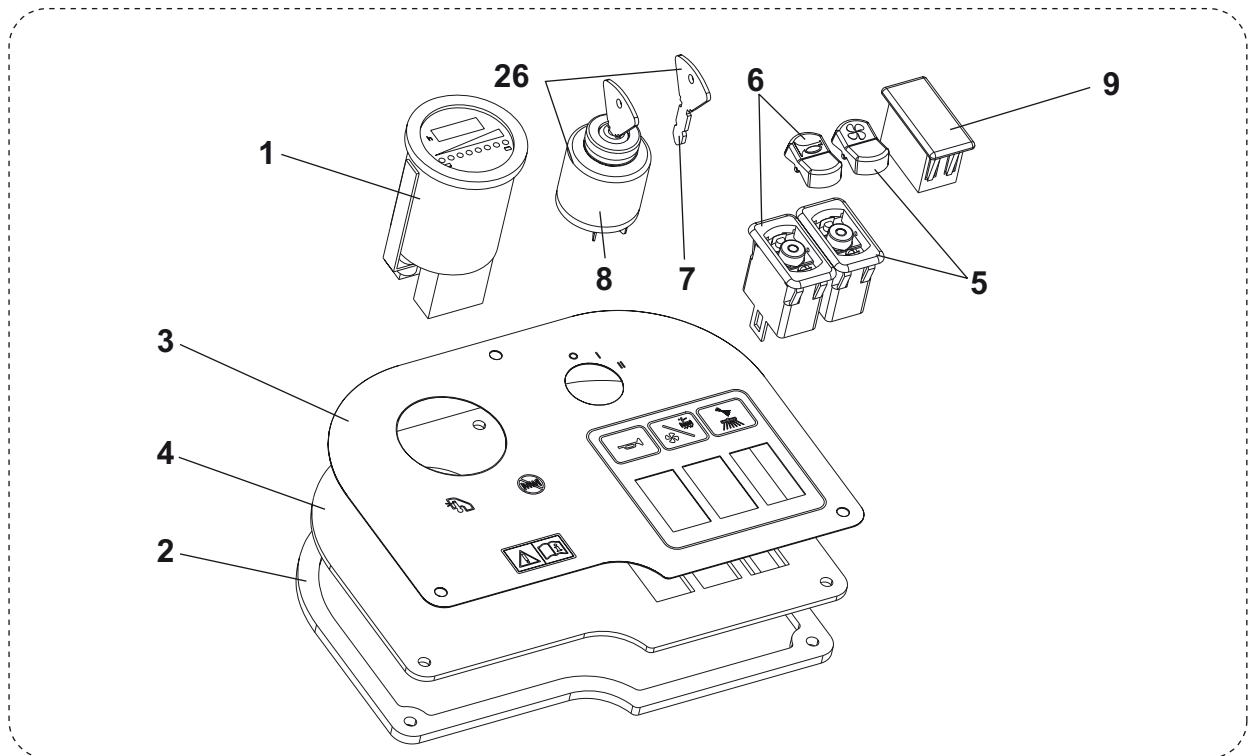
2009-09	ASSY SPEED LIMITING			
2010-09	Proterra™			25

Item	Ref. No.	Qty	Description
1		4	WASHER M12 UNI6592
2		1	WASHER 8X24 UNI6593
3		1	SCREW M6X55 UNI5737
4		1	SCREW M6X30 UNI5739
5		1	SCREW M8X30 UNI5739
6		5	SCREW M6X20 UNI5933
7		1	NUT HEX M6 UNI5588
8		2	NUT HEX M8 UNI5588
9		2	NUT HEX M8 UNI5589
10		3	NUT SELF L. M8 UNI7473
11		5	NUT SELF L. M6 UNI7474
12		1	NUT SELF L. M10 UNI7474
13		1	WASHER M8 UNI8836
14		4	WASHER M6 UNI6592
15		7	WASHER M8 UNI6592
16		2	SCREW THREAD ROLLING
17		3	SPACER
18		1	SCREW THREAD ROLLING
19	33019995	1	BASE SPEED LIMITING
20	33019996	1	LEVER SPEED LIMITING
21	33019997	1	LEVER ADJUSTER
22	33019998	2	PLATE FOR SPEED LIMITING
23	33020212	1	SUPPORT COLLAR
24		1	SCREW M8X110 UNI5739
25	33020367	1	CLAMP HOSE D.25
26	146 0617 000	1	BELLEVILLE WASHER
27		1	SPRING
28		1	COLLAR.PIPE FIXING D.22
29		4	SCREW M8X30 UNI5731
30		1	SCREW SHOULDER M12X16
31		1	FORK M8
32		1	KLIPP M8
33#		4	SCREW THREAD ROLLING
34#	33020565	1	BRACKET SAFETY GUIDE
35#		1	WASHER M10 UNI1751B
36#		1	NUT HEX M10 UNI5589
[37]	33020350	1	SPEED LIMITING HARDWARE KIT (ITEM 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-24-27-28-29-30-31-32)



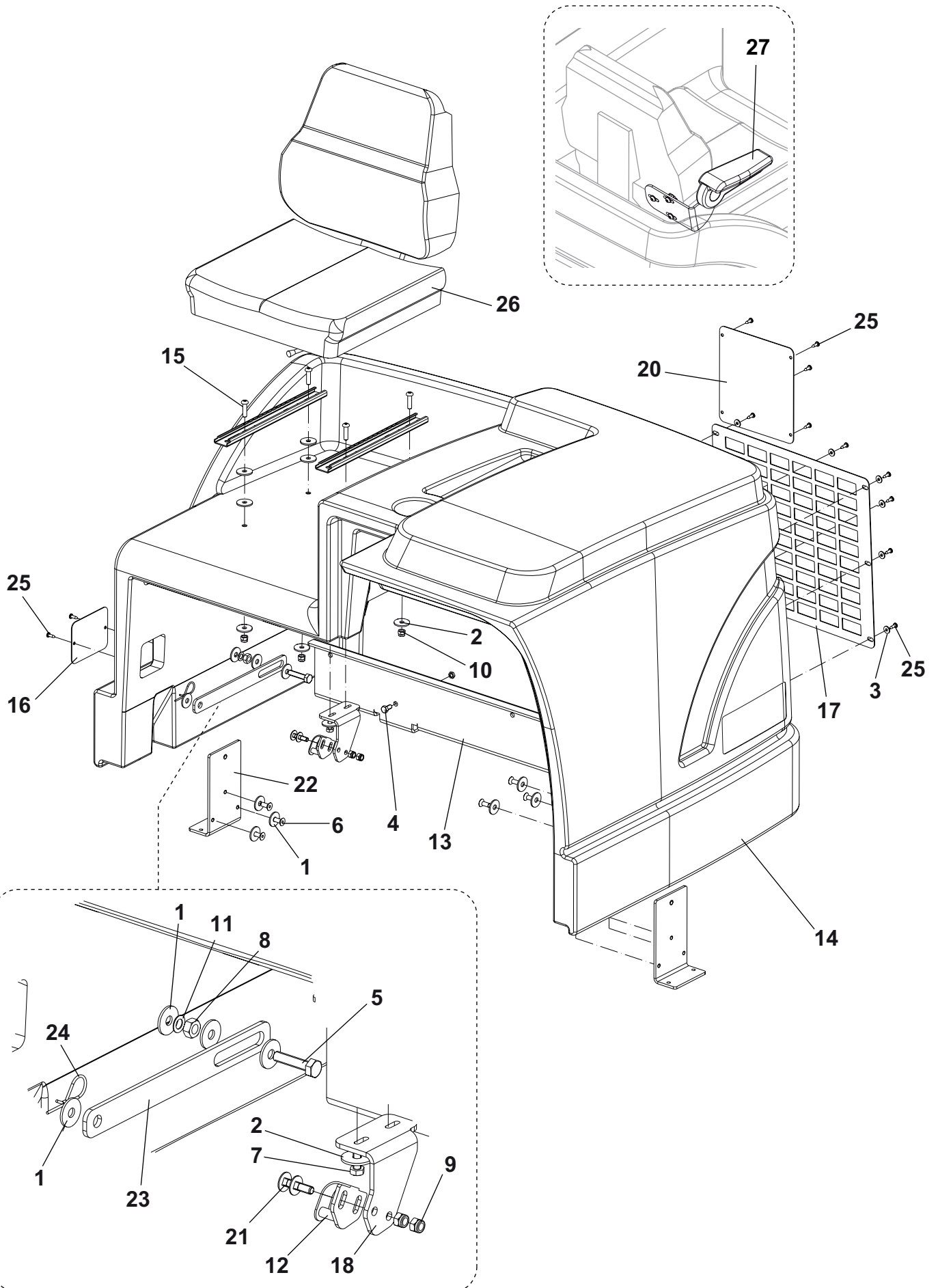
2009-09	ELECTRIC BOX ASSY			
	Proterra™			27

Item	Ref. No.	Qty	Description
1		4	WASHER 6X24 UNI6593
2		6	WASHER 6X18 UNI6593
3		5	SCREW M6X55 UNI5737
4		8	SCREW M6X12 UNI5931
5		2	SCREW M6X50 UNI5931
6		4	NUT SELF L. M6 UNI7473
7		2	NUT SELF L. M8 UNI7474
8		1	WASHER M6 UNI6592
9		2	WASHER M8 UNI6592
10	33009531	2	HINGE
11		7	SCREW THREAD ROLLING
12	33017176	1	LATCH SLAM
13		2	SCREW M8X35 UNI5933
14	33017362	1	HARNESS ELECTRIC MOTOR
15	33017393	1	PLATE
16	33017680	1	PLATE
17	33017683	1	BOX
18	33020297	1	BRACKET EMERGENCY DISCONN
19		4	SPACER
20		2	INSERT M4
21		4	SPACER
22		6	WASHER 8X24 UNI6592
23		4	SCREW M5X20 UNI5739
24		2	SCREW GRUB M8X40 UNI5923
25		2	NUT HEX M8 UNI5588
26		1	NUT SELF L. M5 UNI7474
27		4	WASHER M5 UNI1751B
28		2	WASHER M8 UNI1751B
29		4	WASHER M5 UNI6592
30	33008583	1	POWER FUSE 250A (F0)
31	33017365	2	ISOLATOR M8
32	33017449	1	CONTACTOR UNIPOLAR 48V (ES0)
33	33017681	1	COVER
34	33018876	1	GASKET L 2500
35		2	GROMMET
36	146 0659 000	1	FUSE HOLDER MAXIVAL
37		2	SCREW M8X10 UNI5739
38		1	SCREW M5X12 UNI7687
39	909 5101 000	1	FUSE 30A (F10)
40	33019166	1	CONNECTOR 350 AMP BLUE (C1)
[41]	33018861	1	BLOCK BONNET KIT (ITEM 12-9-7-18-21-2- SEE PAGE 31 12-13)
[42]	33020449	1	ELECTRIC BOX HARDWARE KIT (ITEM 1-2-3-4-5-6-7-8-9-11-13-19-20-21-22-23-24-25-26-27-28-29-37-38)



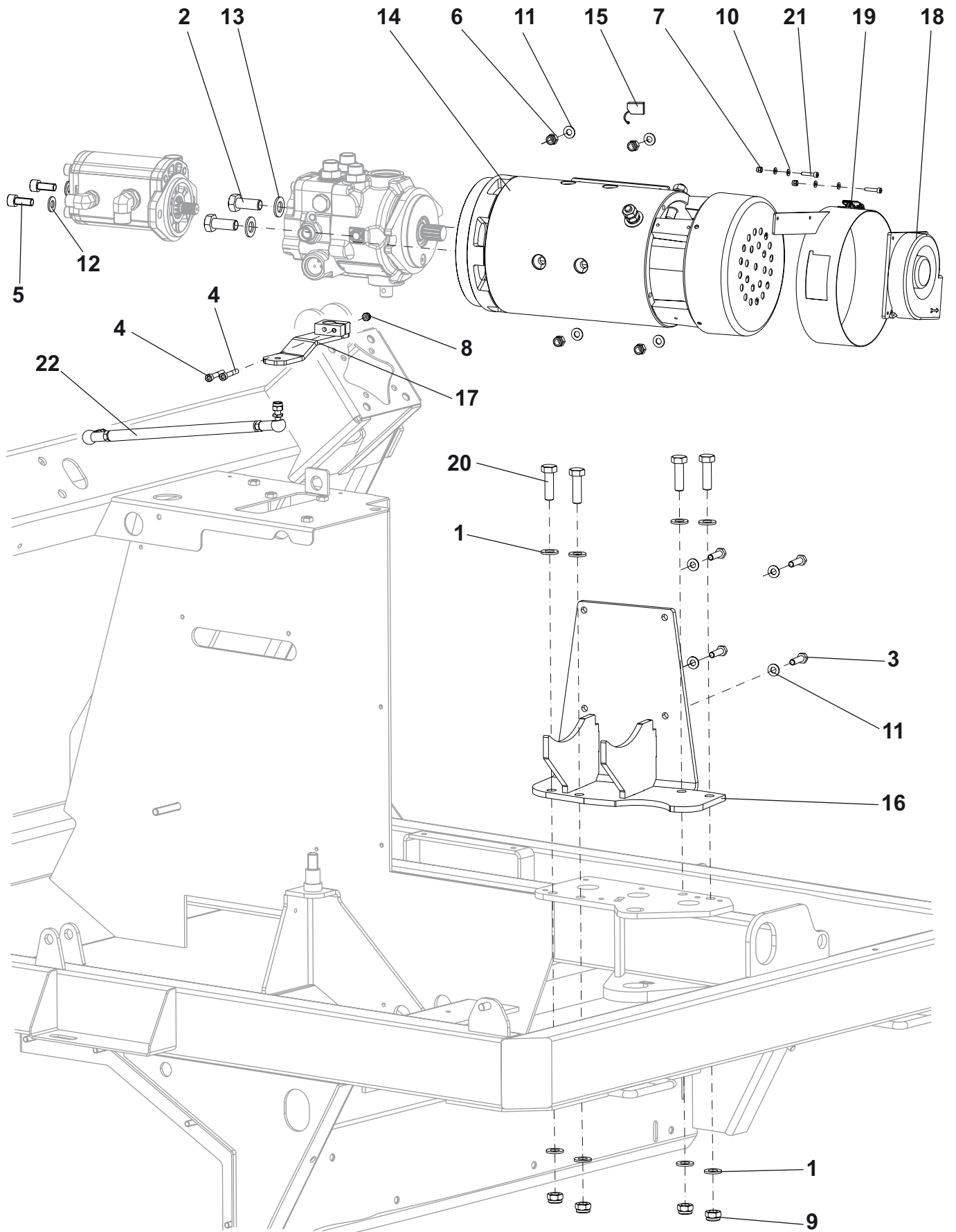
2009-09	ASSY CONTROL PANEL AND RELAYS			
	Proterra™			29

Item	Ref. No.	Qty	Description
1	33017221	1	GAUGE 48V (STR)
2	33017223	1	GASKET PLATE
3	33017375	1	DECAL GAUGE PANEL
4	33017377	1	PLATE GAGE BATTERY
5	33018843	1	SWITCH SUCTION KIT (SW1)
6	33018844	1	SWITCH HORN KIT (SW2)
7	146 0073 00	1	KEY (1PC)
8	145 3761 000	1	SWITCH KEY (K1)
9	909 5836 000	1	CAP
10		2	SCREW PAN PHIL M5X10
11		4	NUT SELF L. M3 UNI7474
12		2	NUT SELF L. M5 UNI7474
13	33017249	1	DECAL FUSES
14	33017356	1	HARNESS RELAY (BATT)
15	33017359	1	RELAY TIMER 20 SECONDS (T1)
16	33017360	1	BREAKER CIRCUIT 16A (F4)
17	33017361	2	CIRCUIT BREAKER 10A (F1 - F5)
18	33017381	1	GASKET
19	33017385	1	RELAY TIMER 0,5 SEC. (T2)
20	33017386	5	BOOT CIRCUIT BREKER
21	33017414	1	PLATE FUSES
22	33019197	1	RELAY TIMER 0,5 SEC. (T3)
23	33020276	1	BREAKER CIRCUIT 3A
24	33020282	1	BREAKER CIRCUIT 5A (F2)
25		4	SCREW PAN PHIL M3X10
26	33020442	1	KEY START ASSY WITH SPARE KEY (ITEM 8-7)
27	909 6622 000	2	RELAY 24V 40A (ES1 - ES2)
28	146 1646 000	1	RELAY 24V (ES3)



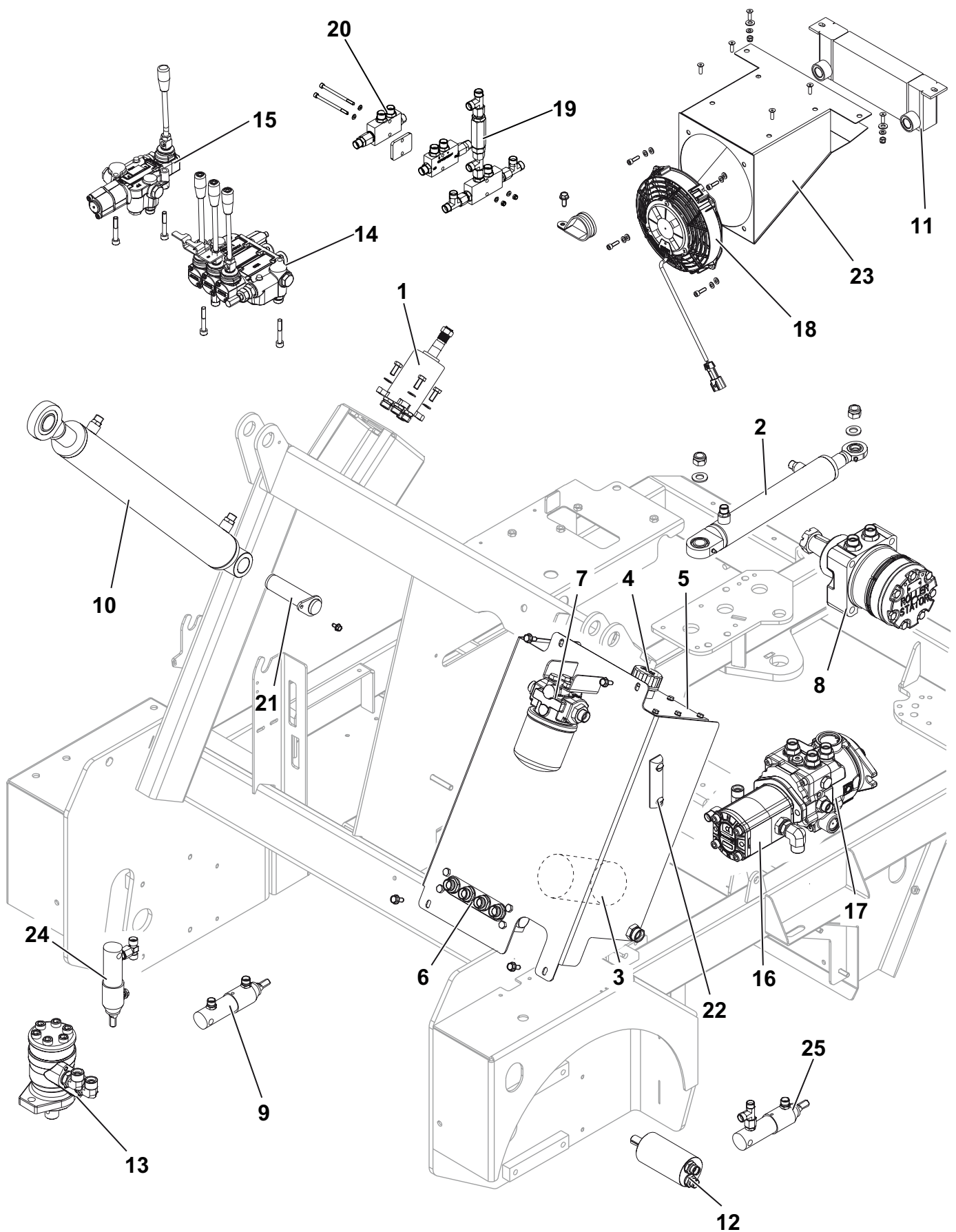
2009-09	ASSY REAR COVER			
2010-09	Proterra™			31

Item	Ref. No.	Qty	Description
1	L08604251	14	WASHER 10X30 UNI6592
2	33003743	14	WASHER 8X32 UNI6593
3	33003747	6	WASHER 5X15 UNI6593
4	33003993	6	SCREW M8X16 UNI5739
5	33004013	2	SCREW M10X45 UNI5739
6	33004592	6	SCREW M8X20 UNI5933
7	33005444	2	SCREW M8X20 UNI5739
8	33005505	2	NUT HEX M10 UNI5588
9	33005565	2	NUT SELF L. M8 UNI7473
10	33005607	4	NUT SELF L. M8 UNI7474
11	33005869	2	WASHER M10 UNI8842A
12	33017177	1	CATCH LATCH
13	33017213	1	BRACKET HINGE
14#	33021009	1	COVER ENGINE
15	909 6331 000	4	SCREW M8X30 ISO7380
16	33017245	1	PLATE SIDE SMALL BATTERY
17	33017247	1	GRILL REAR
18	33017261	1	PLATE CATCH
[19]	33017357	1	HARNES REAR COVER BATTERY
20	33017368	1	PLATE SMALL BATTERY
21	33017869	2	SCREW M8X20 UNI5732
22	33018685	2	BRACKET FOR STOP COVER
23	33018687	2	ROD CONNECTING STOP COVER
24	145 4533 000	2	PIN COTTER
25	145 5874 000	16	SCREW PAN HD
26	145 5975 000	1	SEAT
27	33019556	1	ARMREST RIGHT KIT
[28]	33019554	1	SEAT BELT KIT
[29]	33018862	1	BONNET BLOCK KIT
[30]	33019103	1	REINFORCEMENT BONNET KIT
[31]	33020340	1	REAR COVER HARDWARE KIT (ITEM 1-2-3-4-5-6-7-8-9-10-11-15-21-24-25)



2009-09	ELECTRIC MOTOR ASSY			
	Proterra™			33

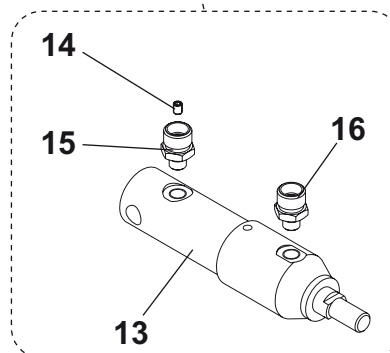
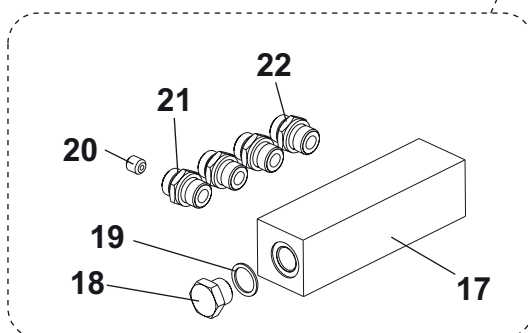
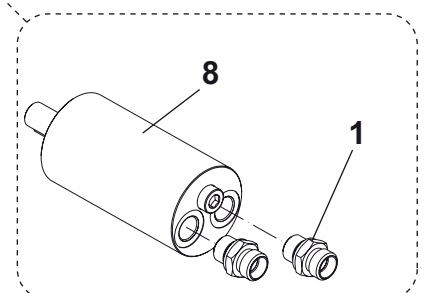
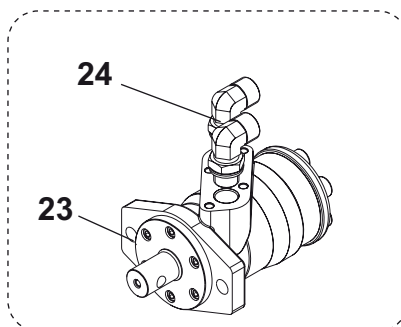
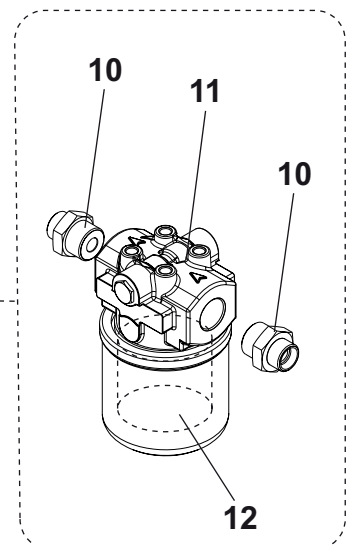
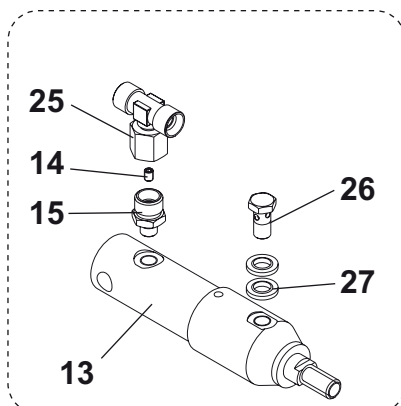
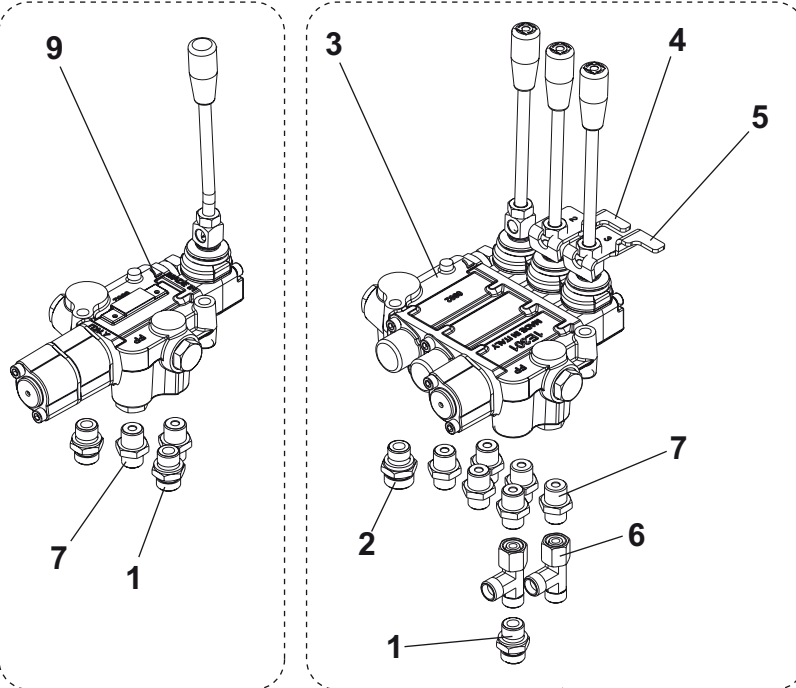
Item	Ref. No.	Qty	Description
1		8	WASHER M12 UNI6592
2		2	SCREW M14X35 UNI5739
3		4	SCREW M8X30 UNI5739
4		2	SCREW M6X40 UNI5931
5		2	SCREW M10X25 UNI5931
6		4	NUT SELF L. M8 UNI7473
7		2	NUT SELF L. M4 UNI7473
8		1	NUT SELF L. M6 UNI7474
9		4	NUT SELF L. M12X1.5
10		4	WASHER M4 UNI6592
11		8	WASHER M8 UNI6592
12		2	WASHER M10 UNI6592
13		2	WASHER M14 UNI6592
14	33017260	1	ELECTRIC MOTOR 48V 7 KW (MP)
15	33019625	1	CARBON BRUSH KIT 4PCS
16	33017364	1	BRACKET
17	33017382	1	LEVER PUMP BATTERY
18	33019568	1	FAN COOLING 48V 5.8W DC (M6)
19	33019569	1	BAND ELECTRIC MOTOR
20		4	SCREW M12X40 UNI5739
21		2	SCREW M4X20 UNI5931
22	33020562	1	KIT LINKAGE PEDAL BATTERY
[23]	33020450	1	ELECTRIC MOTOR HARDWARE KIT (ITEM 1-2-3-4-5-6-7-8-9-10-11-12-13-20-21)



2009-09	ASSY HYDRAULIC PLANT			
2010-09	Proterra™			35

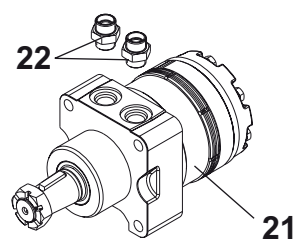
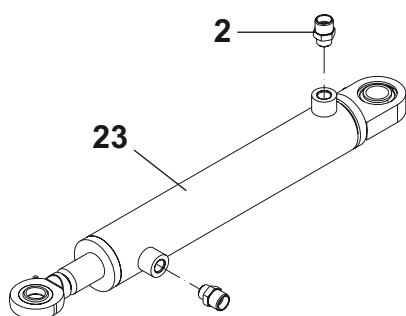
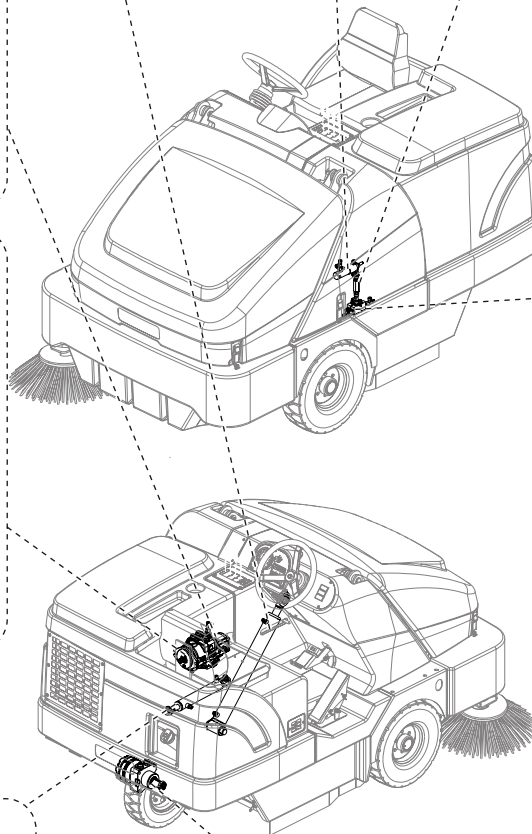
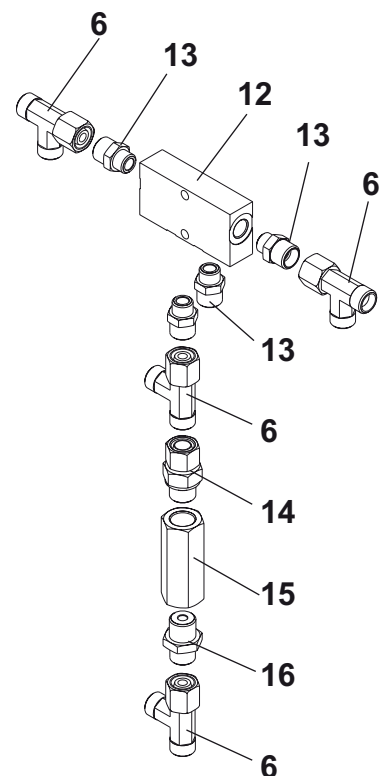
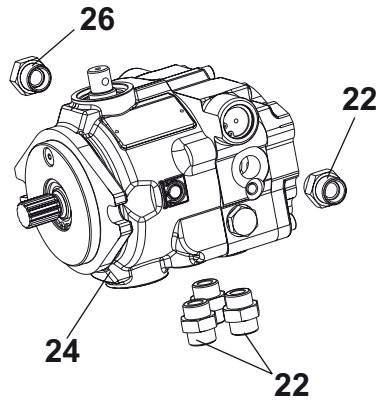
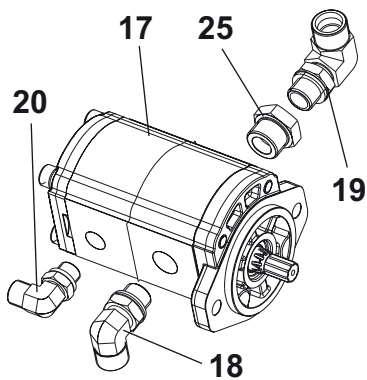
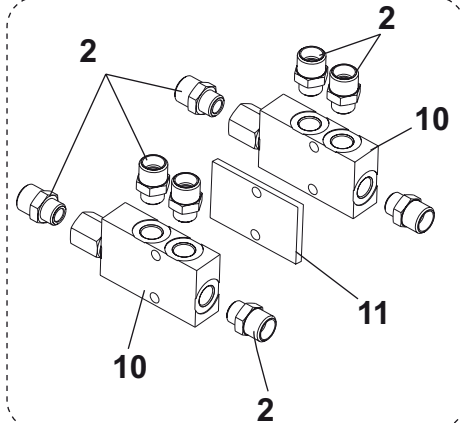
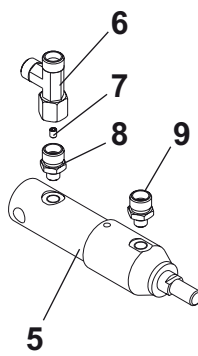
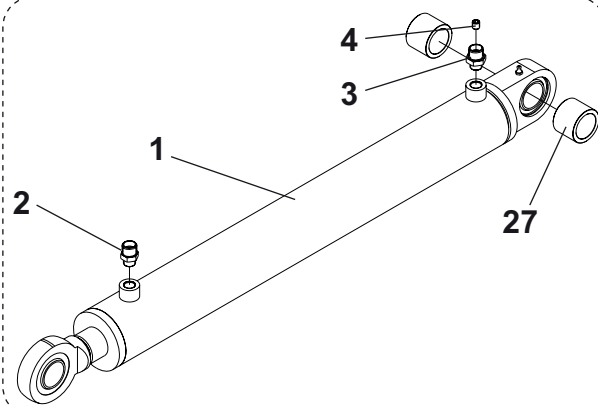
Item	Ref. No.	Qty	Description
1	33017051	1	STEERING UNIT
2	33018808	1	CYLINDER POWER STEERING KIT (ITEM 23-2 SEE PAGE 39)
3	33010199	1	OIL FILTER HYDRAULIC
4	33011530	1	PLUG
5	33001307	1	GASKET
6	33018809	1	TANK OIL KIT (ITEM 22-17-20-21-19-18 SEE PAGE 37)
7	33018810	1	FILTER PRESSURE KIT (ITEM 10-11 SEE PAGE 37)
8#	33019737	1	MOTOR DRIVE KIT (ITEM 21-22 SEE PAGE 39)
9#	33018802	1	CYLINDER FLAP KIT (13-14-15-16 SEE PAGE 37)
10	33018811	1	CYLINDER LIFTING CONTAINER
10A#	33021068	1	ADAPTATION FOR CYLINDER W
11	33018454	1	RADIATOR
12	33018872	1	MOTOR MAIN BROOM KIT (ITEM 8-1 SEE PAGE 37)
13	33018807	1	MOTOR SIDE BROOM KIT (ITEM 23-24 SEE PAGE 37)
14	33018812	1	DISTRIBUTOR 3 ELEMENTS KIT (ITEM 2-3-4-5-6-7 SEE PAGE 37)
15	33018815	1	DISTRIBUTOR 1 ELEMENT KIT (ITEM 1-7-9 SEE PAGE 37)
16	33020561	1	PUMP HYDRAULIC TWIN KIT (ITEM 7-18-19-20-25 SEE PAGE 39)
17	33019104	1	PUMP DRIVE KIT (ITEM 22-24-26 SEE PAGE 39)
18	33020222	1	MOTOR VACUUM 48V (M5)
19	33018817	1	CUTOFF VALVE DOUBLE KIT (ITEM 6-12-13-14-15-16 SEE PAGE 39)
20	33018840	2	CUTOFF VALVE KIT (ITEM 10-2 SEE PAGE 39)
21#	33020853	1	PIN HYDRAULIC CYLINDER
22	33011529	1	OIL LEVEL
23	33020265	1	CONVEYOR FOR AIR COOLER
24#	33021767	1	CYLINDER BROOM RIGHT KIT (ITEM 13-14-15-25-26-27 SEE PAGE 37)
25#	33021765	1	CYLINDER CENTRAL BROOM KIT (ITEM 5-6-7-8-9 SEE PAGE 39)
[26]	33020339	1	HYDRAULIC HARDWARE KIT (ITEM 27-28-29-30-31-32-33-34-35-36-37-38)
[27]		4	SCREW M8X20 ISO7380
[28]		4	CAP INSULATING
[29]		2	NUT SELF L. M14 UNI7473
[30]		1	CLAMP HOSE D.45
[31]		1	SCREW THREAD ROLLING
[32]		1	SCREW THREAD ROLLING
[33]		1	PIPE FITTING
[34]		2	WASHER M14 UNI6592
[35]		4	WASHER M5 UNI6592
[36]		4	NUT SELF L. M5 UNI7474
[37]		2	SCREW M5X80 UNI5931
[38]		2	SCREW M6X55 UNI5737

A: FOR MACHINE AFTER S.N. 103206080 (ALONG WITH REF., 33018811)



2009-09	ASSY HYDRAULIC PLANT			
2010-09	Proterra™			37

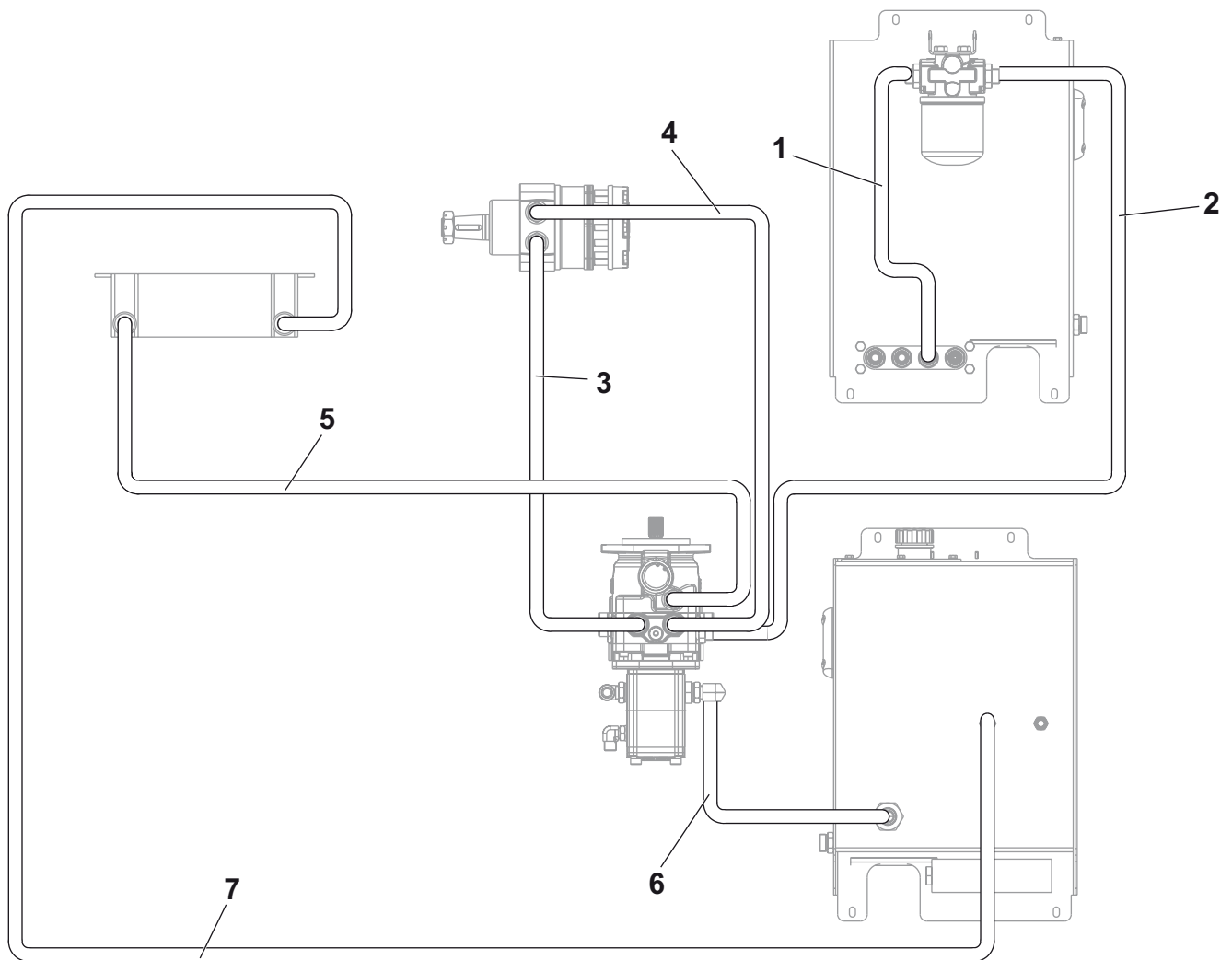
Item	Ref. No.	Qty	Description
1	33015917	5	FITTINGS M3/8
2	33016018	1	FITTINGS M3/8
3	33017052	1	DISTRIBUTOR 3 ELEMENTS
4	33017752	1	BRACKET
5	33017753	1	BRACKET
6	145 5163 000	2	PIPE FITTING
7	146 0505 000	8	PIPE FITTING 3/8 D.10
8	33017004	1	MOTOR MAIN BROOM
*#	33020765	1	GASKET HYDRAULIC PUMP KIT
9	33017676	1	DISTRIBUTOR 1 ELEMENT
10	33015348	2	PIPE FITTING
11	33017431	1	FILTER MEDIUM PRESSUR
12	33017595	1	CARTRIDGE OIL FILTER
13#	33020608	2	MICRO CYLINDER
14	33018215	2	DOWEL M5X6 DIAM 0,5
15	33018222	2	FITTING 1/8
16	33018375	1	FITTINGS 1/8"
17	33017432	1	BLOCK HYD. HOSES
18#	33011456	1	CAP 1/2"
19	145 4291 000	1	COPPER GASKET 1/2"
20	33018675	1	DOWEL M12 DIAM 4
21	33018676	1	PIPE FITTING 1/2 D.15
22	33015757	3	FITTINGS M1/2
23	33017003	1	MOTOR SIDE BROOM
*#	33020754	1	GASKETS HYDRAULIC MOTOR KIT
24	33015874	2	ELBOW 90 M1/2
25	146 0507 000	1	PIPE FITTING T D.10
26	146 0093 00	1	SCREW W/HOLE 1/8
27	145 6020 000	2	WASHER BONDED 1/8



2009-09	ASSY HYDRAULIC PLANT			
2010-09	Proterra™			39

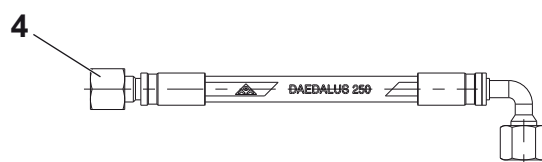
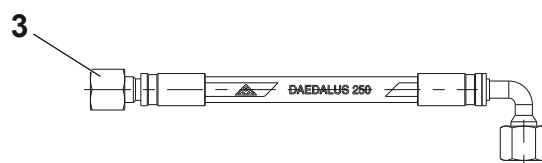
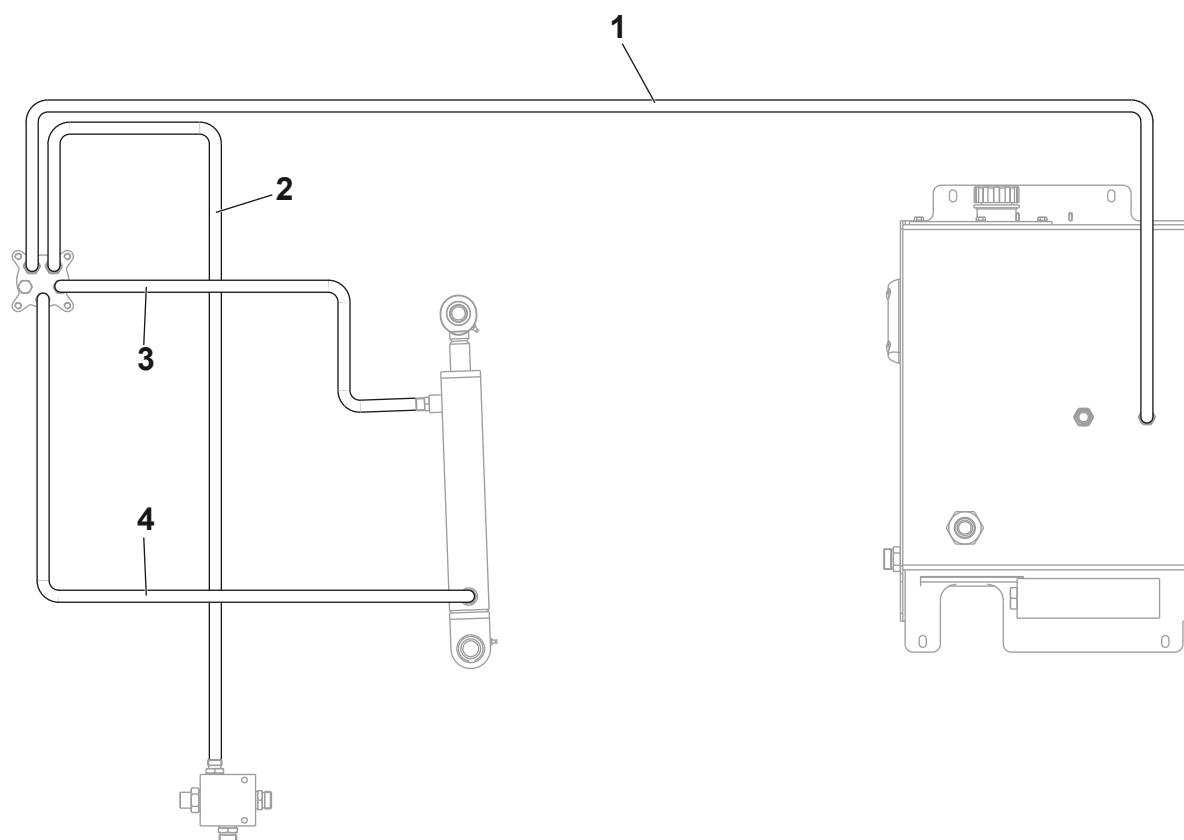
Item	Ref. No.	Qty	Description
1A#	33020854	1	CYLINDER HOPPER LIFT
*#	33020758	1	GASKET CYLINDER KIT
2	146 2977 000	11	PIPE FITTING 1/4 D. 10
3	33018221	1	FITTING 1/4"
4	33019272	1	DOWEL M8X8 DIAM 1
5#	33020608	1	MICRO CYLINDER
6	145 5163 000	5	PIPE FITTING
7	33018215	1	DOWEL M5X6 DIAM 0,5
8	33018222	1	FITTING 1/8
9	33018375	1	FITTINGS 1/8"
10	33017435	2	VALVE SIMPLE CHECK
11	33019712	1	PLATE VALVES
12	33010486	1	CUTOFF VALVE 1/4
13	146 2977 000	4	PIPE FITTING 1/4 D. 10
14	33018220	1	FITTINGS M3/8"-F10L
15	33010481	1	VALVE 3/8 NONRETURN
16	146 0505 000	1	PIPE FITTING 3/8 D.10
17	33020224	1	PUMP HYDRAULIC TWIN
*#	33020755	1	GASKETS HYDRAULIC MOT.KIT
18	33015874	1	ELBOW 90 M1/2
19	33016362	1	ELBOW
20	33017808	1	ELBOW
21#		1	MOTOR DRIVE (ITEM 8 SEE PAGE 35)
*#	33020753	1	GASKETS HYDRAULIC MOT.KIT
22#	33017002	5	FITTING PIPE
23	33017005	1	STEERING CYLINDER
*#	33020757	1	GASKET CYLINDER KIT
24#	33020997	1	PUMP DRIVE
*#	33020763	1	GASKET HYDRAULIC PUMP KIT
*#	33020764	1	GASKET HYDRAULIC PUMP KIT
25	145 8867 000	1	CAP REDUCTION 3/4-1/2 MF
26#	33011456	1	PLUG 1/2
27#	33020812	2	SPACER

A: SEE PAGE 35 ITEM 10A AND SPEC.



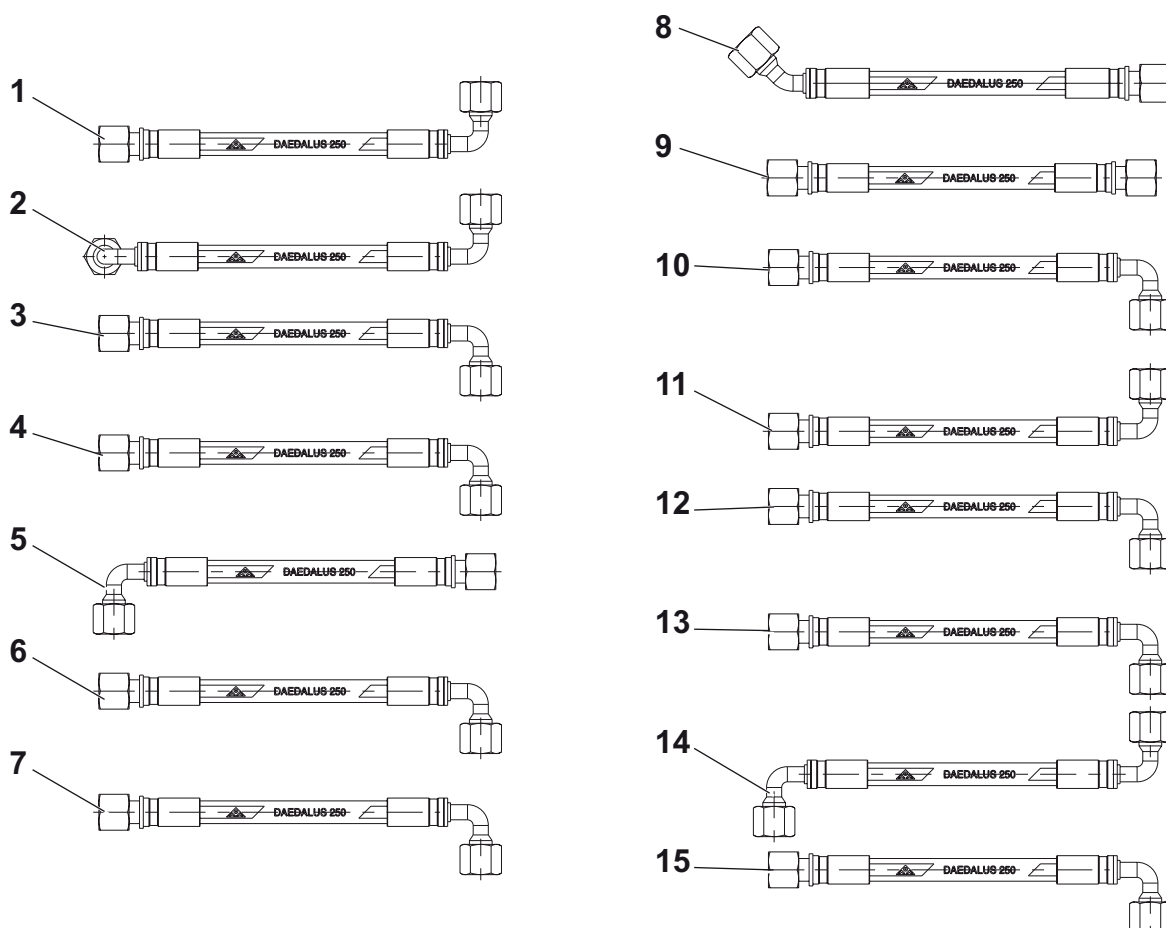
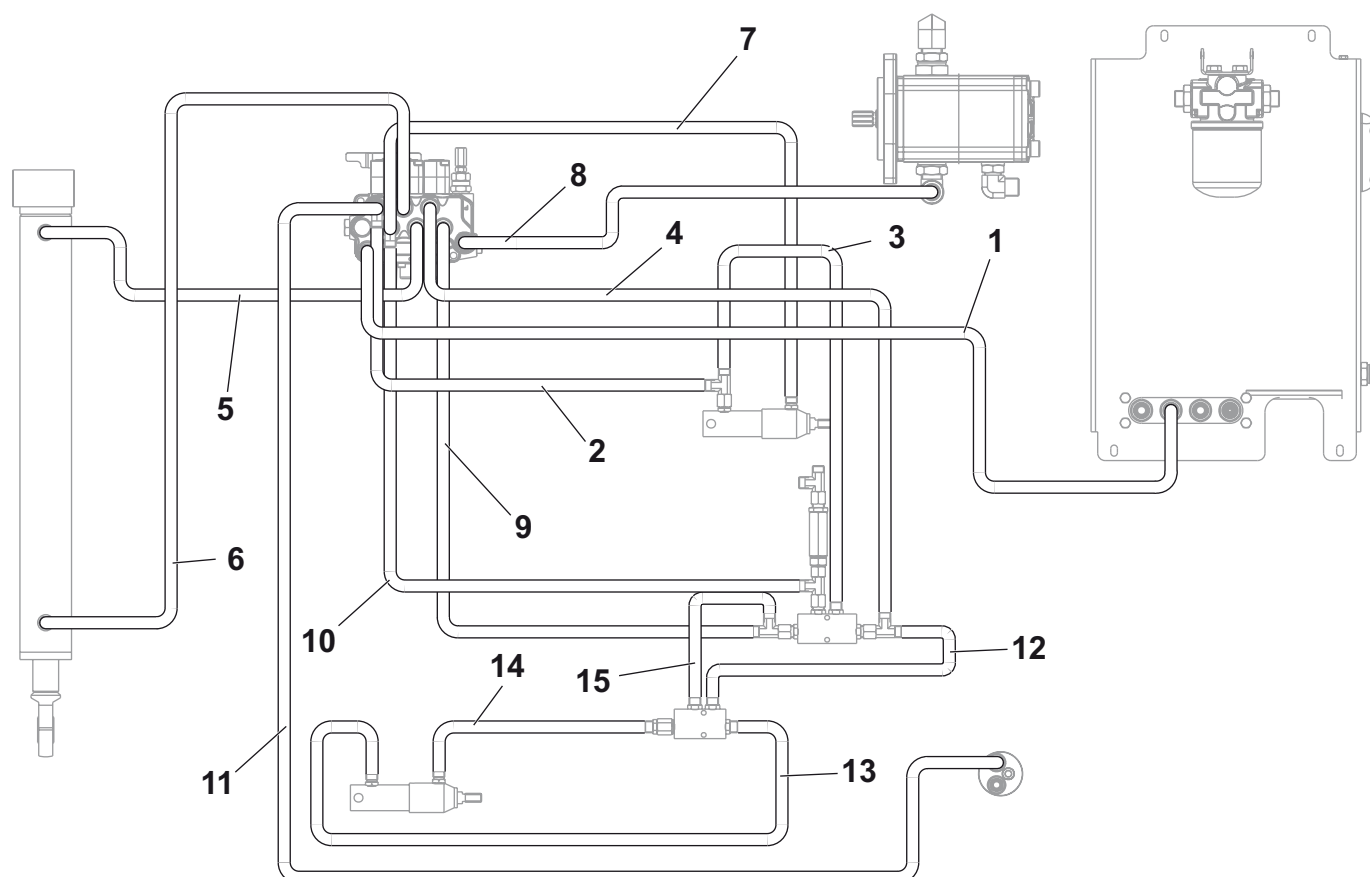
2009-09	HYDRAULIC PLANT - DRIVE MOTOR SCHEME			
	Proterra™			41

Item	Ref. No.	Qty	Description
1	33017649	1	HOSE HYDRAULIC 1/2 L= 450
2	33018632	1	HOSE HYDRAULIC 1/2 L=1500
3	33017641	1	HOSE HYDRAULIC 1/2 L=1470
4	33017630	1	HOSE HYDRAULIC 1/2 L=1470
5	33019639	1	HOSE HYDRAULIC 1/2 L=1120
6	33017651	1	HOSE HYDRAULIC 3/4 L= 900
7	33019640	1	HOSE HYDRAULIC 1/2 L=1115



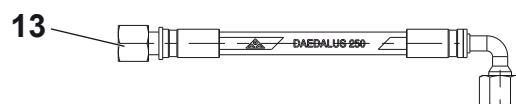
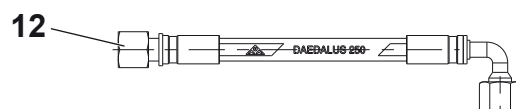
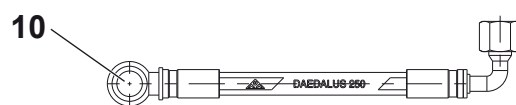
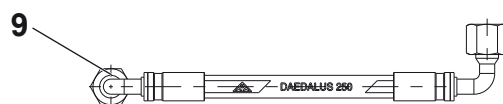
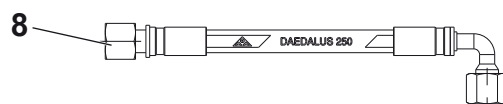
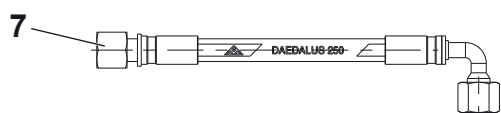
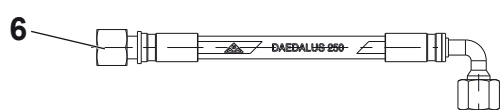
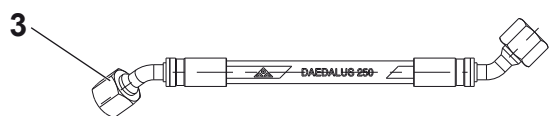
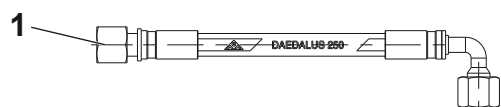
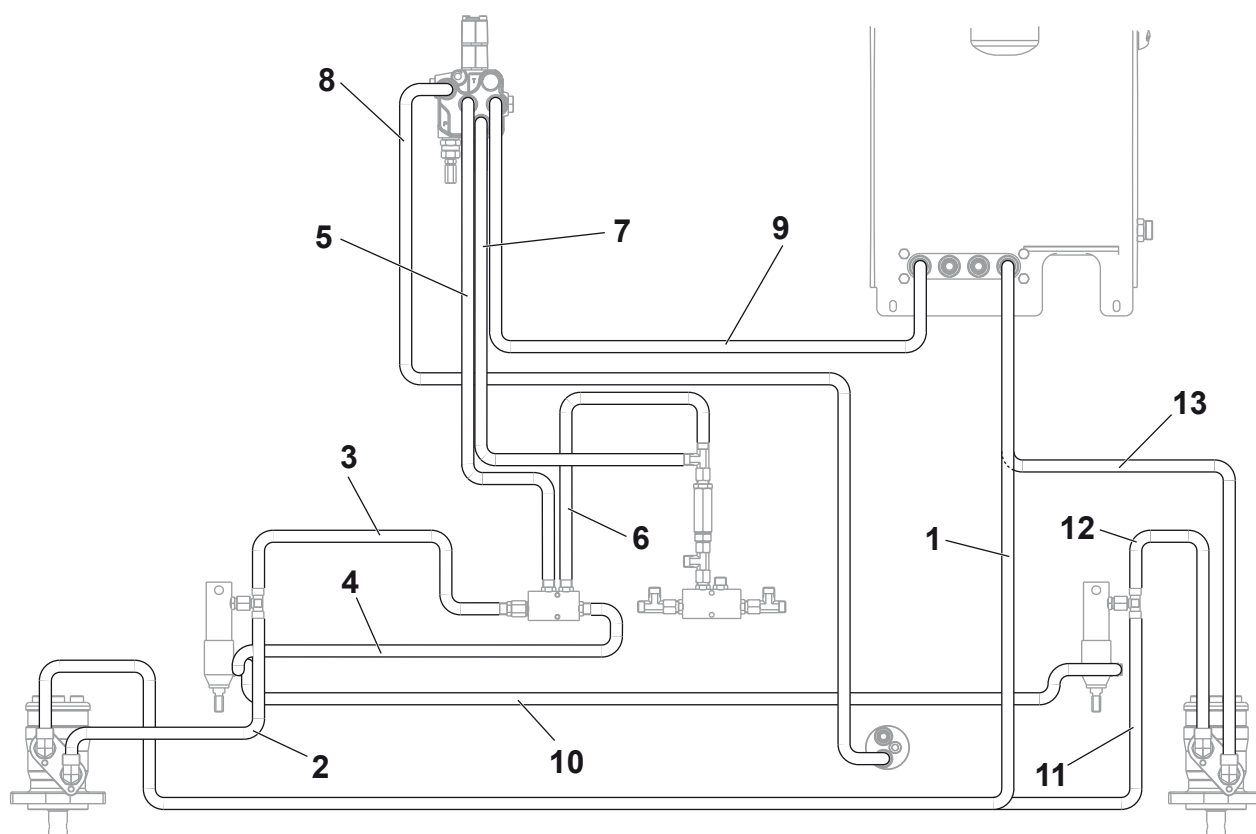
2009-09	HYDRAULIC PLANT - STEERING SCHEME			
	Proterra™			43

Item	Ref. No.	Qty	Description
1	33020136	1	HOSE HYDRAULIC 3/8 L 1000
2	33020137	1	HOSE HYDRAULIC 3/8 L 1380
3	33017622	1	HOSE HYDRAULIC 1/4 L=1320
4	33017625	1	HOSE HYDRAULIC 1/4 L=1000



2009-09	HYDRAULIC PLANT - FLAP AND HOPPER SCHEME			
	Proterra™			45

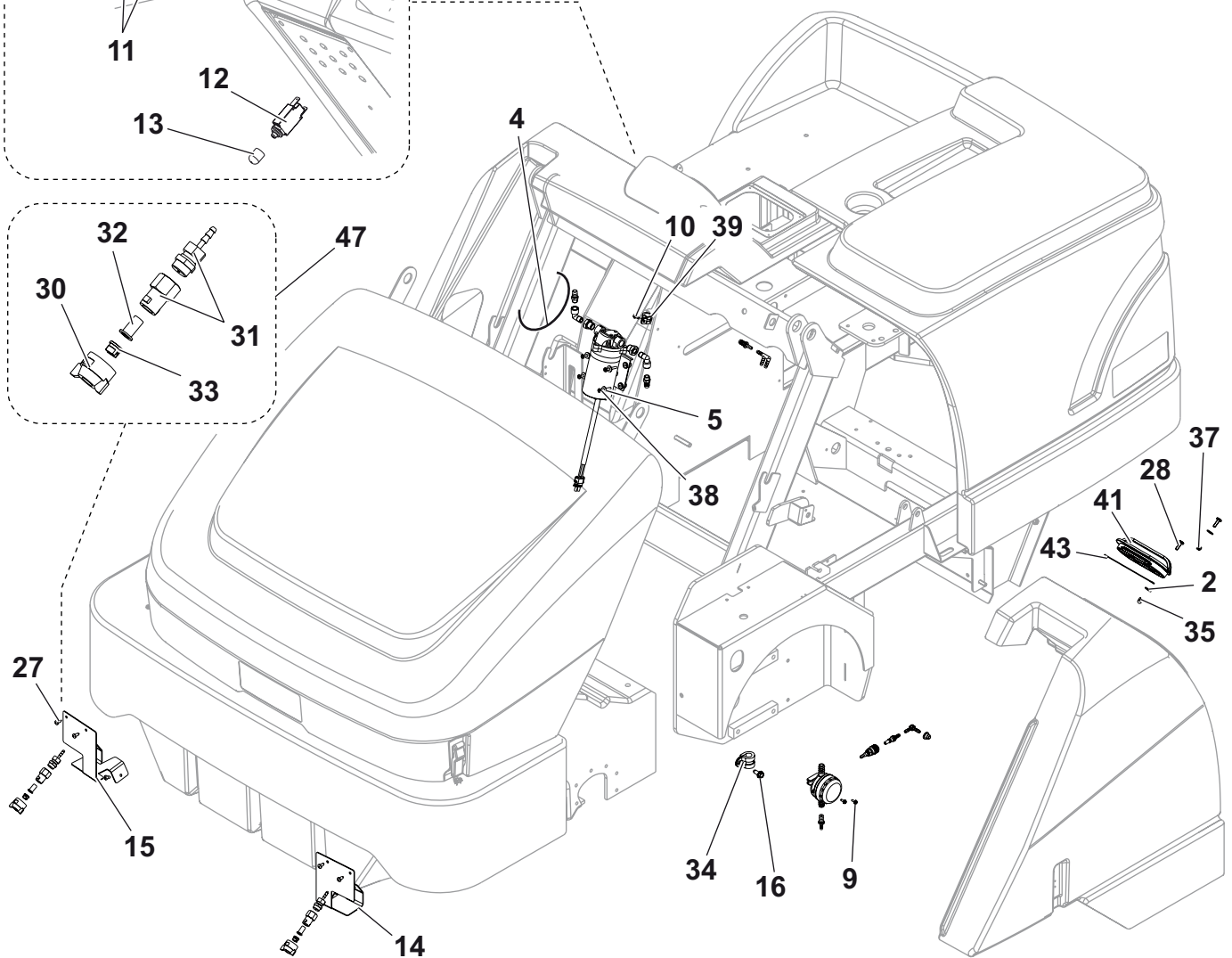
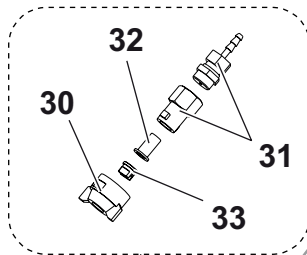
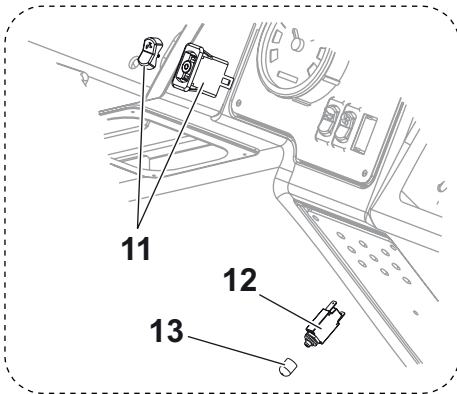
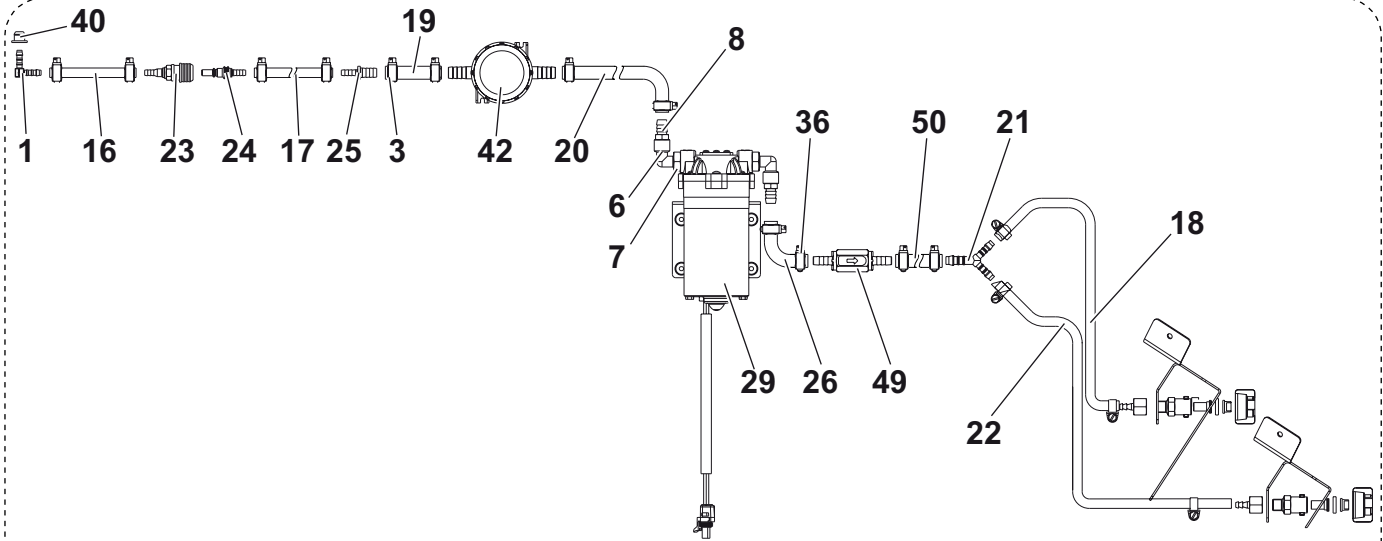
Item	Ref. No.	Qty	Description
1	33017650	1	HOSE HYDRAULIC 1/2 L=1050
2	33017635	1	HOSE HYDRAULIC 1/4 L=1580
3	33017634	1	HOSE HYDRAULIC 1/4 L= 500
4	33017628	1	HOSE HYDRAULIC 1/4 L=1560
5	33017652	1	HOSE HYDRAULIC 1/4 L= 650
6	33017627	1	HOSE HYDRAULIC 1/4 L= 460
7	33017632	1	HOSE HYDRAULIC 1/4 L=1650
8	33020284	1	HOSE HYDRAULIC 1/2 L 340
9	33017653	1	HOSE HYDRAULIC 1/4 L=1340
10	33017633	1	HOSE HYDRAULIC 1/4 L=1390
11	33017655	1	HOSE HYDRAULIC 3/8 L=1350
12	33019714	1	HOSE HYDRAULIC 1/4 L= 450
13	33017638	1	HOSE HYDRAULIC 1/4 L=3020
14	33017647	1	HOSE HYDRAULIC 1/4 L=2320
15	33019713	1	HOSE HYDRAULIC 1/4 L= 450



2009-09	HYDRAULIC PLANT - SIDE BROOM SCHEME			
	Proterra™			47

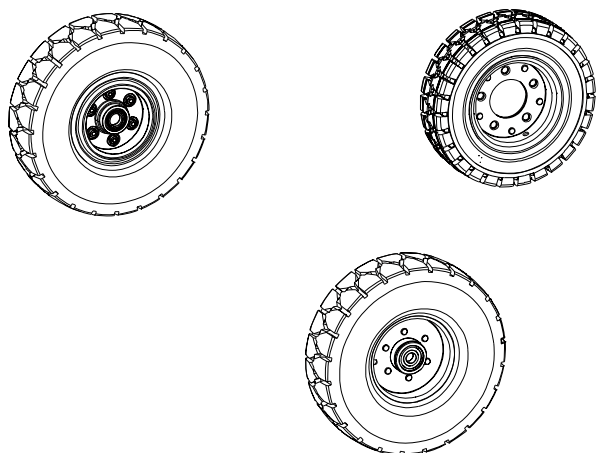
Item	Ref. No.	Qty	Description
1A	33018689	1	HOSE HYDRAULIC 1/2 L=2900
2	33017640	1	HOSE HYDRAULIC 3/8 L= 625
3	33017654	1	HOSE HYDRAULIC 1/4 L=2600
4	33017643	1	HOSE HYDRAULIC 1/4 L=3400
5	33017646	1	HOSE HYDRAULIC 1/4 L=1460
6	33017637	1	HOSE HYDRAULIC 1/4 L= 330
7	33017639	1	HOSE HYDRAULIC 1/4 L=1620
8	33017631	1	HOSE HYDRAULIC 3/8 L=1520
9	33017648	1	HOSE HYDRAULIC 1/2 L=1050
10B	33017644	1	HOSE HYDRAULIC 1/4 L=2500
11B	33017629	1	HOSE HYDRAULIC 3/8 L=2900
12B	33017642	1	HOSE HYDRAULIC 3/8 L= 660
13B	33017645	1	HOSE HYDRAULIC 1/2 L=2170

- A: ONLY FOR MACHINE WITH ONE SIDE BROOM
B: ONLY FOR MACHINE WITH TWO SIDE BROOM

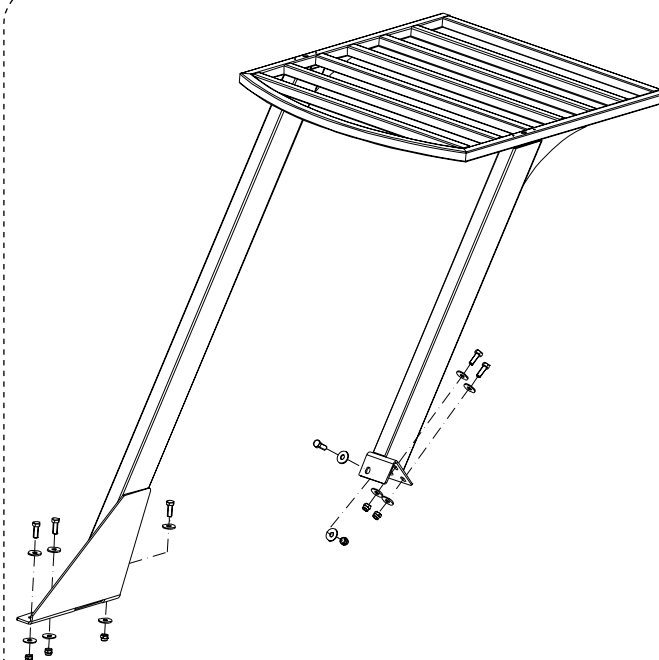


2009-09	ACCESSORIES			
2010-09	Proterra™			49

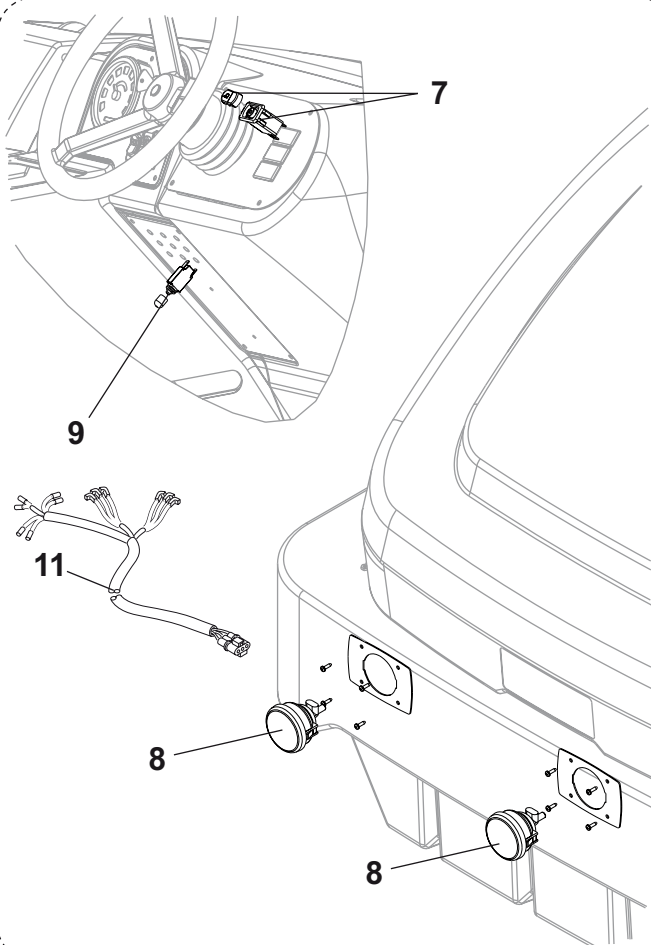
Item	Ref. No.	Qty	Description
1#	33020824	1	ELBOW 90. D. 8 NYLON
2		2	WASHER 6X18X1.5 UNI6593
3#		8	CLAMP
4		6	CLAMP 9X350
5		4	WASHER 5X15 UNI6593
6	33011224	2	FITTING1/4
7	33011494	2	REDUCTION GEAR MF 3/8 1
8	33011522	2	RUBBER SEAL HOLDER 1/4 D
9		2	SCREW THREAD ROLLING
10		1	SCREW THREAD ROLLING
11	33019325	1	SWITCH WATER FLUSHING KIT (SW6)
12	33019709	1	BREAKER CIRCUIT 2A (F3)
13	33017386	1	BOOT CIRCUIT BREKER
14	33017927	1	BRACKET LEFT SIDE
15	33017928	1	BRACKET RIGHT SIDE
16#		2	SCREW THREAD ROLLING
17		1	HOSE CRISTAL 6X11 L 480
18		1	HOSE CRISTAL 6X11 L 2020
19		1	HOSE D.10 L 65
20		1	HOSE D.10 L 1400
21#	33020820	1	ELBOW Y D.6-8-6
22		1	HOSE CRISTAL 6X11 L 2740
23	33018190	1	CONNECTOR
24	33018191	1	CONNECTOR
25	33018196	2	FITTING
26#		1	HOSE D.10 L 60
27		6	SCREW 6X20
28		2	SCREW M6X20
29	33019726	1	PUMP WATER KIT (M3)
30#	33020817	2	RING NUT QUICK COUPLING
31#	33020865	2	ADAPTER SPRAY KIT
32#	33020814	2	FILTER NOZZLE SPRAY
33#	33020816	2	NOZZLE SPRAY
34#		1	COLLAR D.10
35		1	NUT HEX M6 UNI5721
36	145 8582 000	8	CLAMP HOSE
37		1	NUT SELF LOCKING M6 SS
38		4	SCREW 4.5X40
39		1	CLAMP HOSE D.18
40	909 6089 000	1	CHOCK D.18
41	9097385000	1	CAP SOLUTION TANK
42	9097404000	1	FILTER WATER
43	9097485000	1	CABLE OPENING CAP
[44]	33019249	1	HARNESS MISTING SYSTEM
[45]*	33019377	1	PRE MISTING SYSTEM 48V KIT
[46]	33019375	1	INSTALLATION INSTRUCTIONS
47	33019324	2	NOZZLE SPRAY KIT (ITEM 30-31-32-33)
[48]	33019326	1	HOSES/FITTINGS MISTING SYSTEM KIT (ITEM 21-23-24-25-6-7-8-3-4-39-40-1-17-18-19-20-26-22)
49#	33021303	1	KIT CHECK VALVE
50#		1	HOSE D.10 L 780



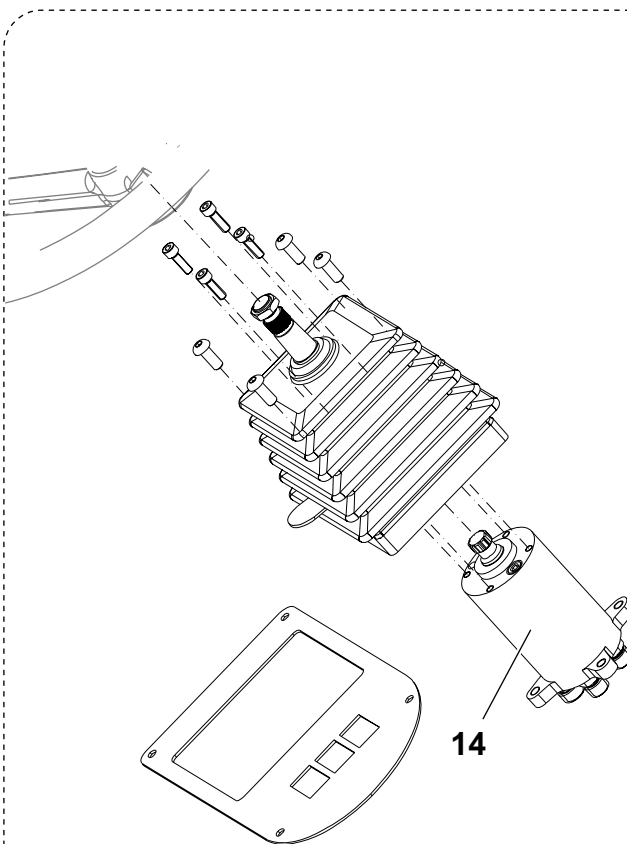
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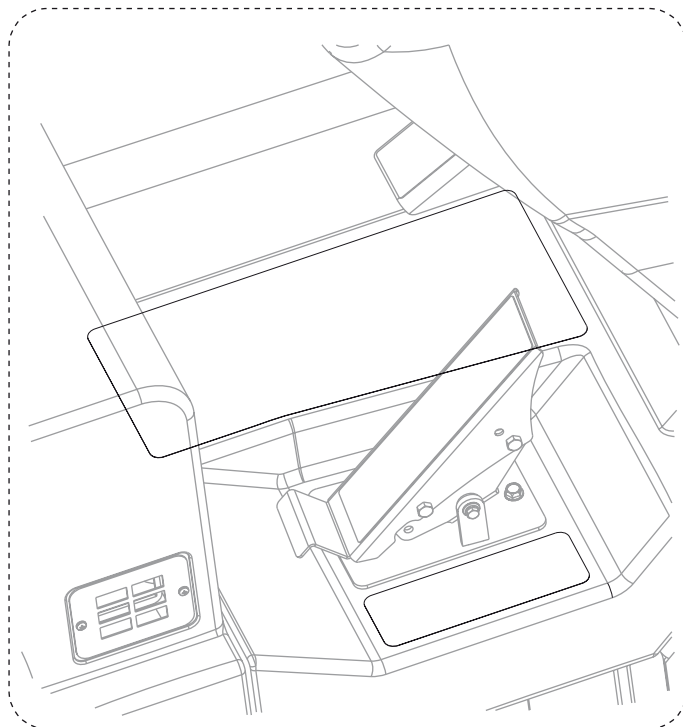
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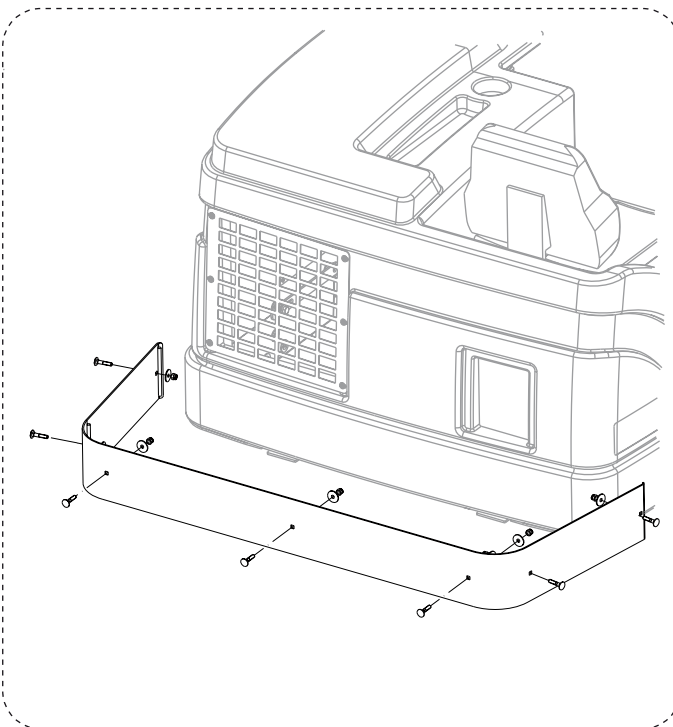
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2009-09	ACCESSORIES			
	Proterra™			51

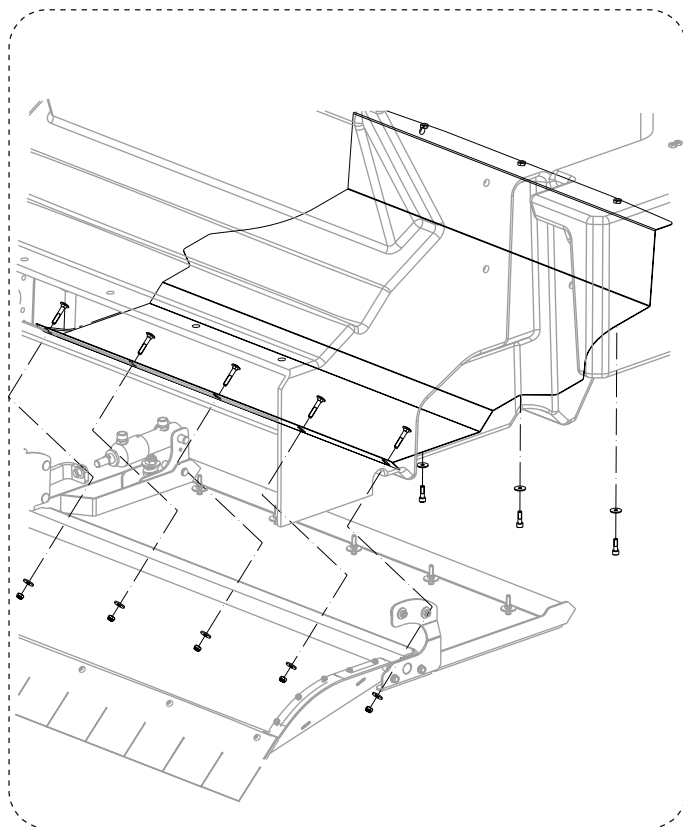
Item	Ref. No.	Qty	Description
1*	33019172	1	WHEEL SOLID NON MARKING KIT
		1	WHEEL 4.00-8 NO MARK VERS
		2	WHEEL 5.00-8 NO MARK VERS
2*	33019171	1	OVER HEAD GUARD KIT
[0]	33020629	1	INSTRUCTIONS ASSEMBLY
		6	NUT SELF L. M12 UNI7473
		6	SCREW M12X35 UNI5739
		12	WASHER 12X36X3 UNI6593
		1	OVER HEAD GUARD
[3]*	56508663	1	MIRROR KIT
[4]	56040968	1	INSTRUCTIONS ASSEMBLY
5*	33019560	1	FRONT LIGHT 48V KIT
[6]	33019201	1	INSTRUCTIONS INSTALLATION
7	33019736	1	SWITCH FRONT LIGHT
8	33019229	2	HEADLIGHT 24V (L1/L2)
9	33017361	1	BREAKER CIRCUIT 10A (F6)
[10]	33019734	2	LAMP
11	33019220	1	HARNESS FRONT HEADLIGHT
		2	PLATE FOR FRONT LIGHT
		8	SCREW 4.8X19 UNI6954
12*	33019174	1	TILT STEERING KIT
[13]	33019157	1	INSTRUCTIONS ASSEMBLY
14	33017925	1	STEERING UNIT
		4	SCREW M6X20 UNI5931
		1	STEERING TILT
		1	STEERING WHEEL
		1	COVER PLATE TILT STEERING
[15]*	56507027	1	FIRE EXTIGUISHER KIT
[16]	56040936	1	INSTRUCTIONS ASSEMBLY



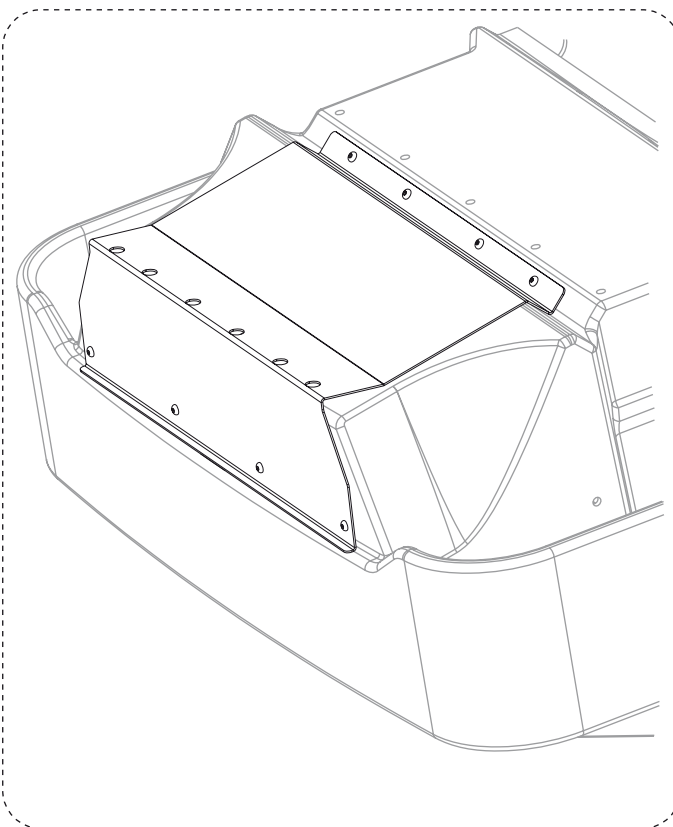
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3



5

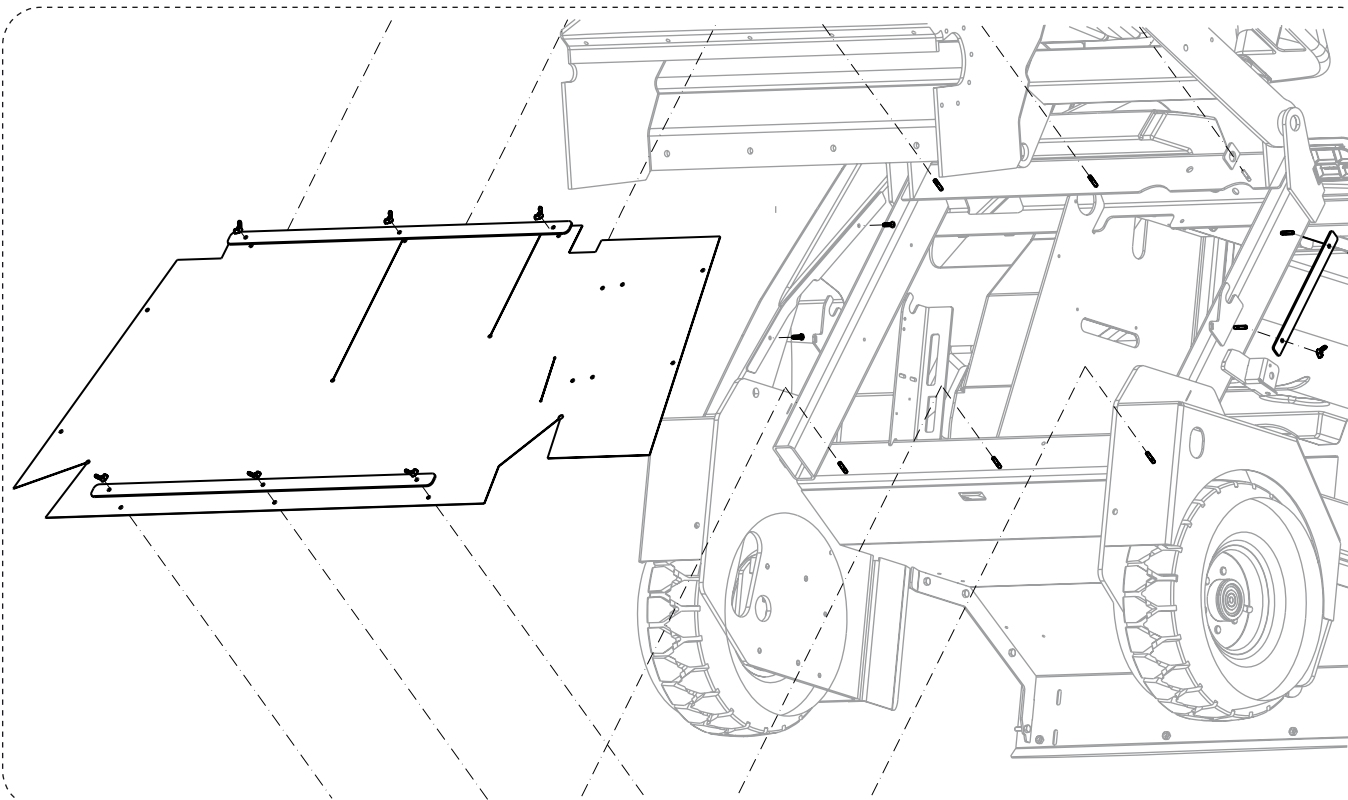


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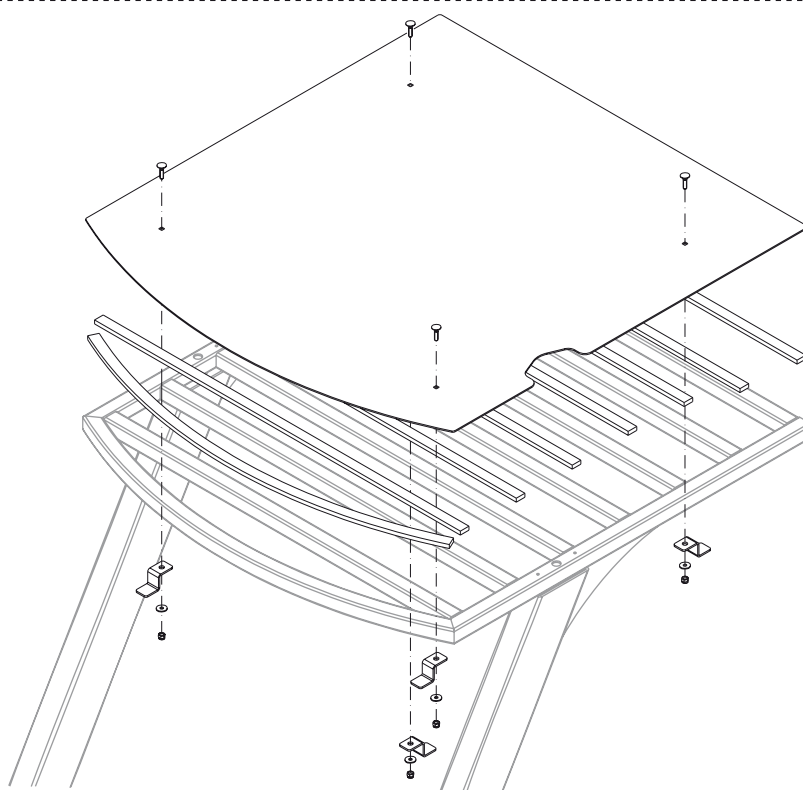
2009-09	ACCESSORIES			
	Proterra™			53

Item	Ref. No.	Qty	Description
1*	33019570	1	MAT FLOOR KIT
[2]	33019195	1	INSTRUCTIONS ASSEMBLY
		1	ANTI SLIP SURFACE
		1	ANTI SLIP SURFACE
3*	33019572	1	GUARD REAR BUMPER KIT
[4]	33019205	1	INSTRUCTIONS ASSEMBLY
		7	NUT SELF L. M8 UNI7473
		7	SCREW M8X40 UNI5731
		7	WASHER 8X32X2
		1	BUMPER REAR
5*	33019573	1	METAL LINER HOPPER KIT
[6]	33019207	1	INSTRUCTIONS INSTALLATION
		3	WASHER 6X18 UNI6592
		3	SCREW M6X20 UNI5931
		1	PROTECTION HOPPER
7*#	33021392	1	FRONT PROTECTION KIT
[8]#	33021393	1	INSTRUCTIONS ASSEMBLY
[9]*#	33019794	1	PLATE ENGINE COVER STIFFE

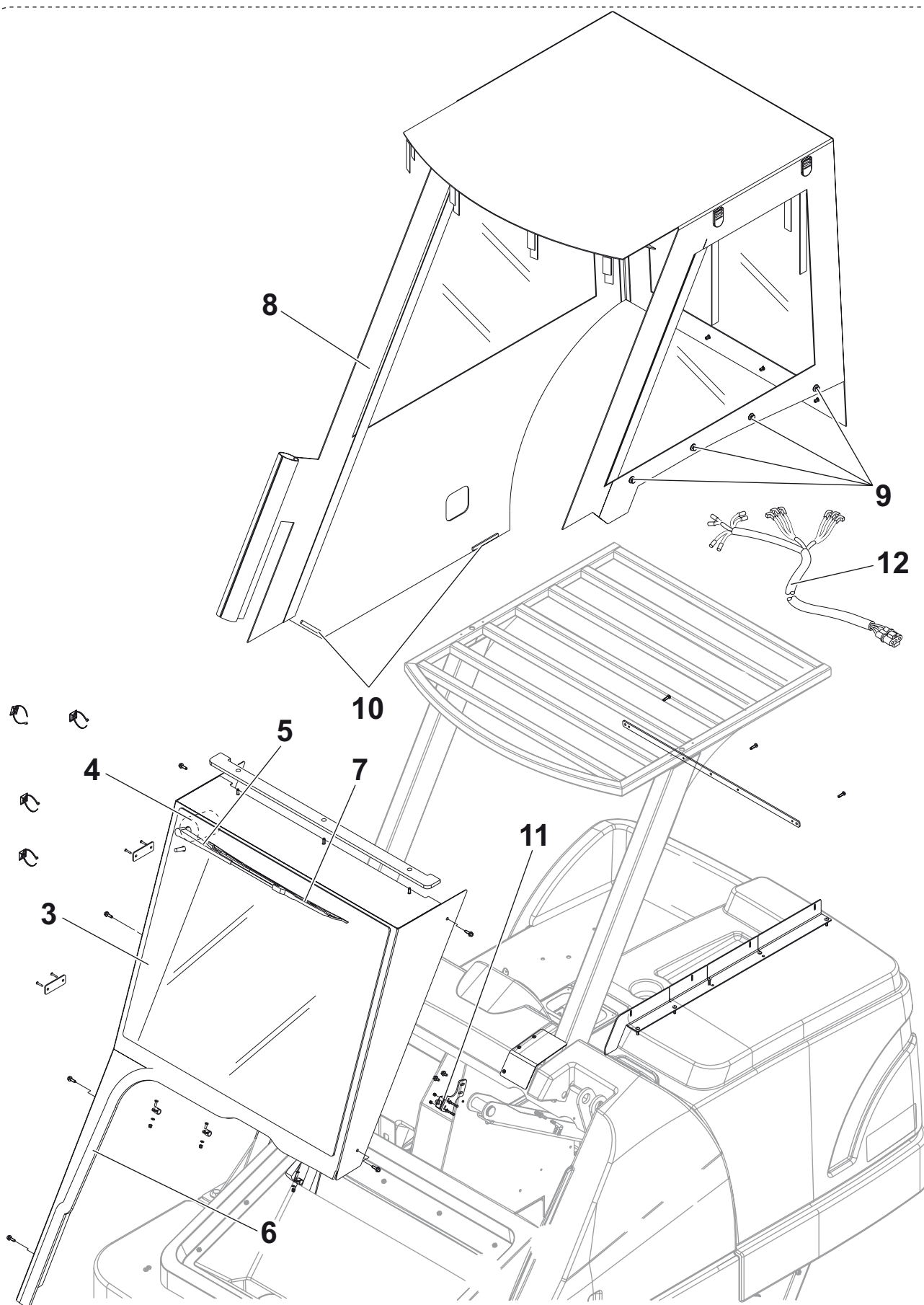
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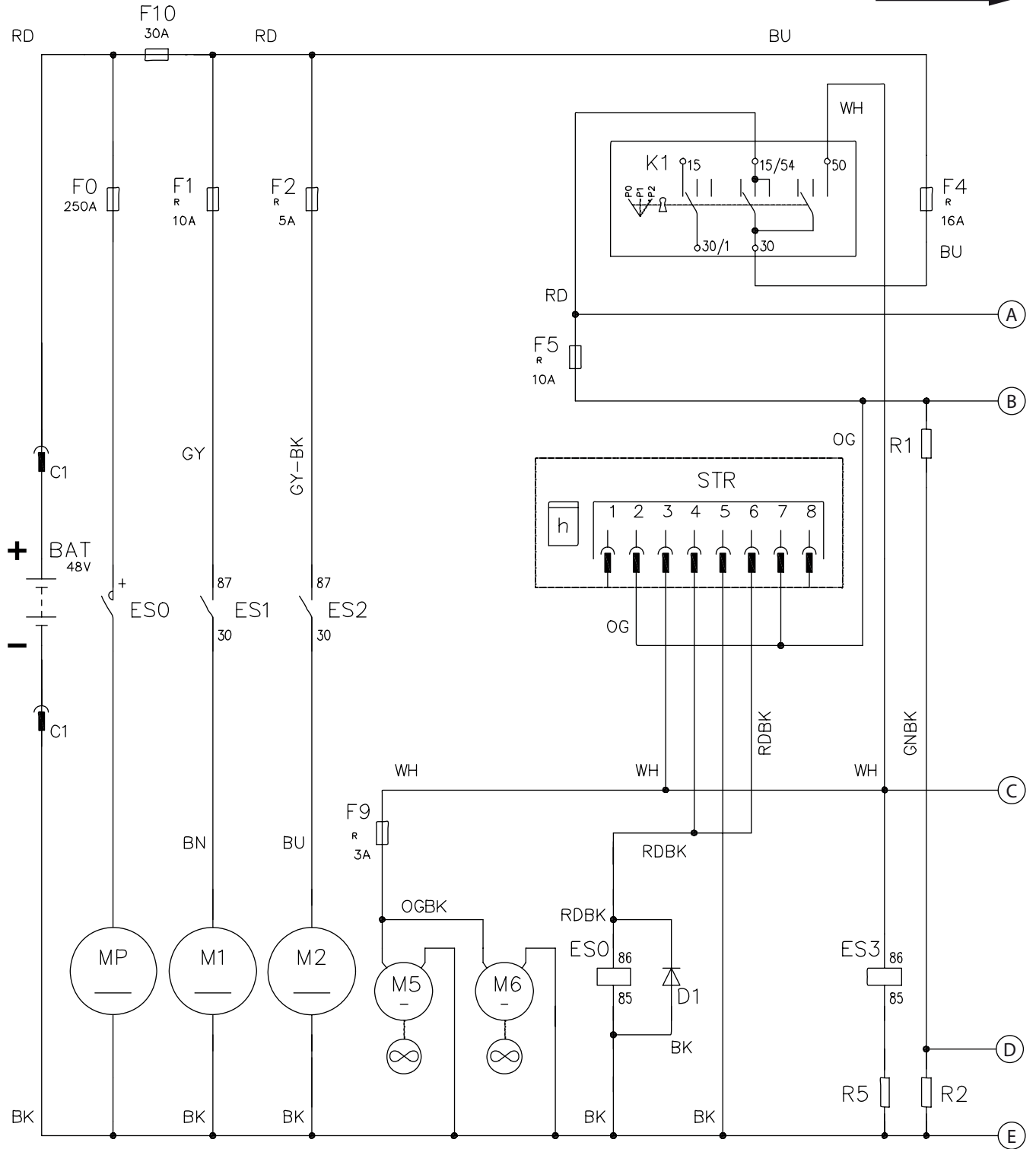
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2009-09	ACCESSORIES			
2010-09	Proterra™			57

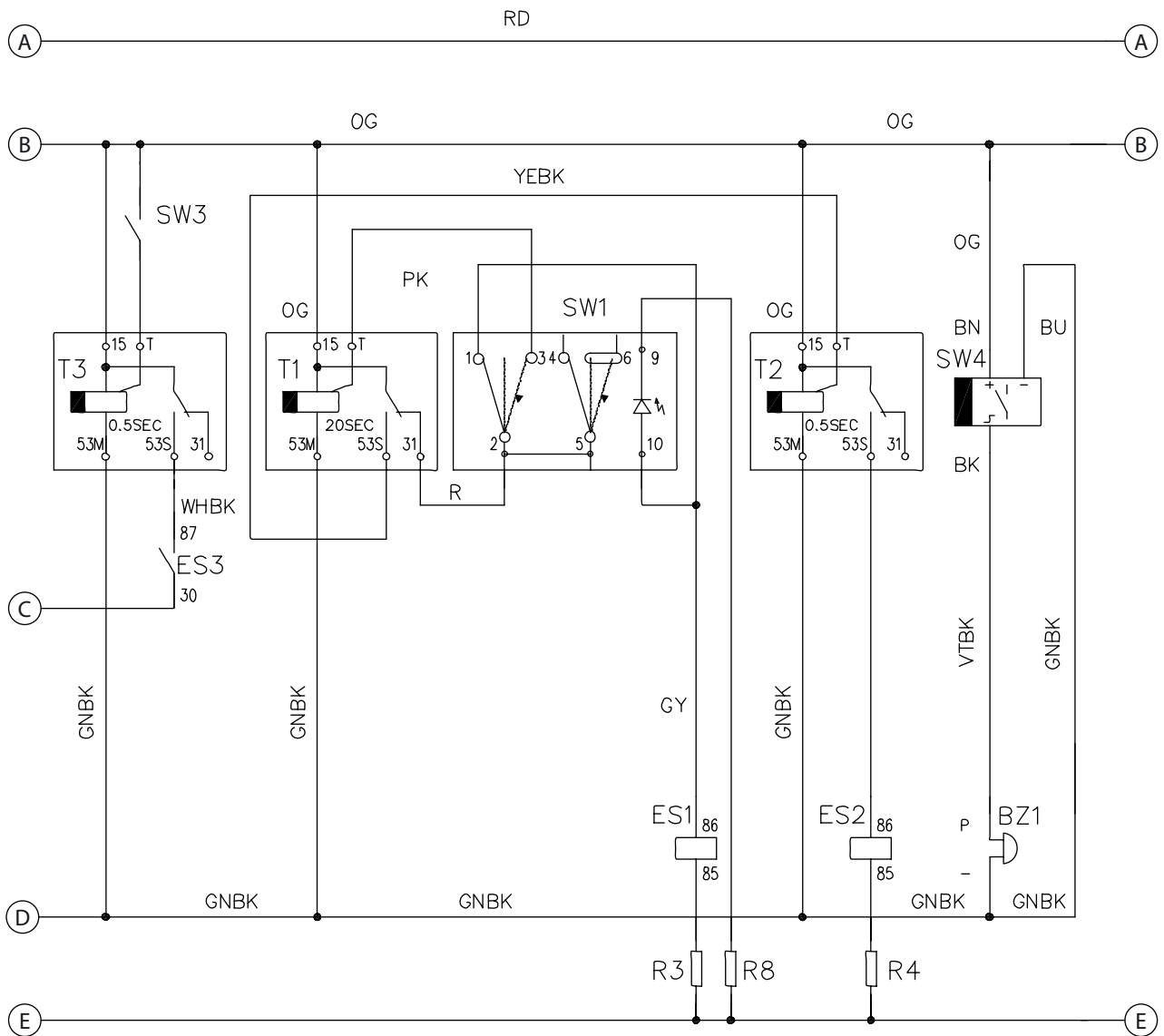
Item	Ref. No.	Qty	Description
1*#	33020002	1	SOFT CABIN KIT
[2]	33020001	1	INSTRUCTIONS ASSEMBLY
3	33020288	1	WINDSCREEN
4	33020457	1	MOTOR WINDSCREEN WIPER
5	33020571	1	ARM WINDSCREEN WIPER
6	33020623	1	GASKET
7	33020460	1	WINDSCREEN WIPER
8	33020292	1	CABIN SOFT
9	33020461	8	COUPLING QUICK LOCK
10	33020611	2	MAGNET FIXING CABIN
11	33020459	1	MICROSWITCH 16A 250V
12	33020456	1	HARNESS WINDSCREEN WIPER

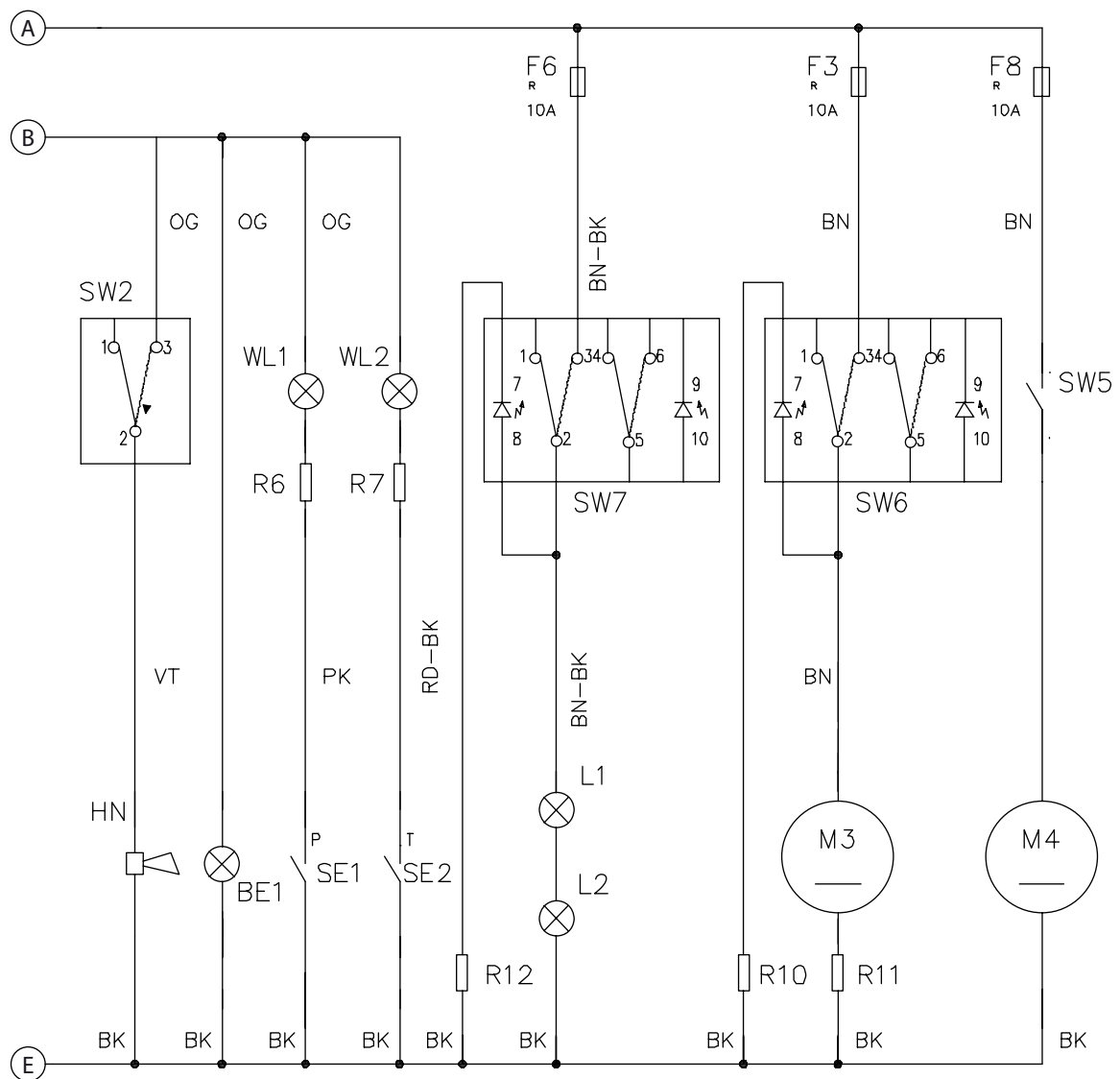
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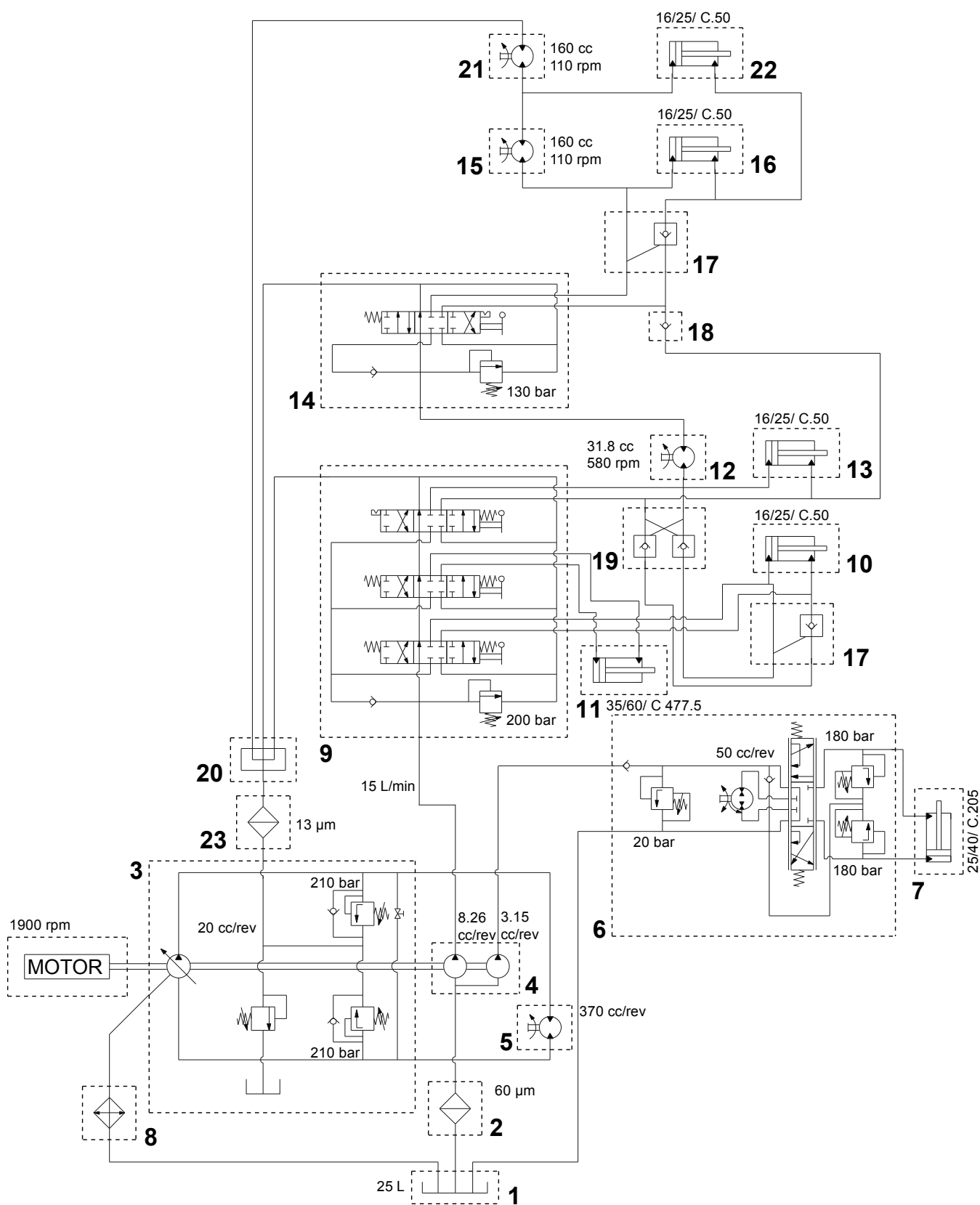


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Key	Description	Ref. No.
BAT	BATTERY 48V (OPTIONAL)	80562010
BE1	PIVOTING LIGHT	56305223
BZ1	REVERSE GEAR BUZZER	33019574
C1	BATTERY CONNECTOR	33019166
D1	DIODE	NA
ES0	PRIMARY HYDRAULIC PUMP CONTACTOR	33017449
ES1	VACUUM MOTOR RELAY	909 6622 000
ES2	FILTER SHAKER RELAY	909 6622 000
ES3	START RELAY	146 1646 000
F0	PRIMARY HYDRAULIC PUMP FUSE (250 A)	33008583
F1	VACUUM SYSTEM CIRCUIT BREAKER	33017361
F2	FILTER SHAKER CIRCUIT BREAKER	33020282
F3	WATER PUMP CIRCUIT BREAKER (OPTIONAL)	33019709
F4	IGNITION KEY CIRCUIT BREAKER	33017360
F5	MOTOR ACCESSORY CIRCUIT BREAKER	33017361
F6	WORK LIGHTS CIRCUIT BREAKER (OPTIONAL)	33017361
F8	CAB FAN CIRCUIT BREAKER (OPTIONAL)	33017361
F10	AUXILIARY FUSE (30 A)	909 5101 000
HN	HORN	33009017
K1	IGNITION SWITCH	145 3761 000
L1/2	WORK LIGHTS (OPTIONAL)	33019229
M1	VACUUM SYSTEM MOTOR	33015700
M2	FILTER SHAKER MOTOR	33017232
M3	WATER PUMP (OPTIONAL)	33019726
M4	FAN CAB (OPTIONAL)	TBD
M5	OIL COOLER FAN	33020222
M6	MP COOLER FAN	33019568
MP	PRIMARY ELECTRIC MOTOR	33017260
R1	T1, T2, BZ1 RESISTOR	NA
R2	T1, T2, BZ1 RESISTOR	NA
R3	ES1 RESISTOR	NA
R4	ES2 RESISTOR	NA
R5	ES3 RESISTOR	NA
R6	WL1 RESISTOR (OPTIONAL.)	NA
R7	WL2 RESISTOR (OPTIONAL)	NA
R8	SW1 RESISTOR	NA
R9	M5 RESISTOR	NA
R10	SW6 RESISTOR	NA
R11	M3 RESISTOR (OPTIONAL)	NA
STR	GAUGE	33017221
SE1	PLUGGED FILTER SENSOR (OPTIONAL)	TBD
SE2	HOPPER TEMPERATURE SENSOR (OPTIONAL)	TBD
SW1	VACUUM SYSTEM/FILTER SHAKER SWITCH	33018843
SW2	HORN SWITCH	33018844
SW3	SEAT SWITCH	NA
SW4	REVERSE GEAR PROXIMITY SENSOR	33018521
SW5	FAN SWITCH	TBD
SW6	WATER PUMP SWITCH (OPTIONAL)	33019325
SW7	WORK LIGHTS SWITCH (OPTIONAL)	TBD
T1	PRIMARY FILTER SHAKER TIMER	33017359
T2	SECONDARY FILTER SHAKER TIMER	33017385
T3	SEAT SWITCH TIMER	33019197
WL1	PLUGGED FILTER LED (OPTIONAL)	TBD
WL2	HOPPER TEMPERATURE LED (OPTIONAL)	TBD

Color

BK	BLACK
BU	LIGHT BLUE
BN	BROWN
GN	GREEN
GY	GREY
OG	ORANGE
PK	PINK
RD	RED
VT	VIOLET
WH	WHITE
YE	YELLOW



2009-09	HYDRAULIC DIAGRAM			
2010-09	Proterra™			63

Item	Description	Ref. No.
1	OIL TANK	33018809
2	OIL FILTER	33010199
3	DRIVE SYSTEM PUMP	33019104
4	ACCESSORY PUMP	33020224
5	DRIVE SYSTEM MOTOR	33018793
6	POWER STEERING	33017051
7	STEERING CYLINDER	33018808
8	OIL COOLER	33018454
9	MANIFOLD 3 LEVERS	33018812
10	HOPPER LIFTING CYLINDER	33018811
11	SKIRT CYLINDER	33018802
12	MAIN BROOM MOTOR	33018872
13	MAIN BROOM CYLINDER	33021765
14	MANIFOLD 1 LEVER	33018815
15	RIGHT SIDE BROOM MOTOR	33018807
16	RIGHT SIDE BROOM CYLINDER	33021767
17	CHECK VALVE	33018840
18	ONE-WAY VALVE	33010481
19	DOUBLE CHECK VALVE	33018816
20	MANIFOLD BLOCK	33017432
21	LEFT SIDE BROOM MOTOR (OPT.)	33018807
22	LEFT SIDE BROOM CYLINDER (OPT.)	33021766
23	OIL FILTER	33017431

			RECOMMENDED SPARE PARTS	2009-09
	64	Proterra™		

Ref. No.	Qty	Description
33003175	1	BEARING 32007
145 4691 000	1	BEARING
33017129	1	GASKET TRIM EDGE BULB
33017171	1	FLAP SIDE
33017172	1	FLAP SIDE
33017173	2	FOAM HOPPER SIDE
33017174	1	FLAP REAR BROOM
33018803	1	LATCH KIT
33017257	1	TRIM EDGE BULB L 900MM
33017126	1	SEAL HOPPER COVER L 2930
33015700	1	MOTOR VACUUM 48V (M1)
33016950	1	GASKET
8-24-04139-1	1	PANEL FILTER
L08603675	4	NUT THUMB SQUEEGEE FIXING
33018634	1	GASKET FILTER ASSY L 2560
33017232	1	MOTOR FILTER SHAKER 48V (M2)
33017255	1	BROOM SIDE PPL 259X550
33019102	1	PIN SIDE BROOM KIT
33010199	1	FILTER HYDRAULIC OIL
33011530	1	PLUG
33001307	1	GASKET
33018812	1	DISTRIBUTOR 3 ELEMENTS KIT
33018815	1	DISTRIBUTOR 1 ELEMENT KIT
33018816	1	VALVE PRIORITY KIT
33018817	1	CUTOFF VALVE DOUBLE KIT
33018840	2	CUTOFF VALVE KIT
33018258	1	FAN
33017199	1	SPRING
33017259	1	MAT PEDAL
33018841	1	FOOT PEDAL UPPER KIT
33018843	1	SWITCH SUCTION KIT (SW1)
33018844	1	SWITCH HORN KIT (SW2)
33017221	1	GAUGE 48V (STR)
33017375	1	DECAL GAUGE PANEL
145 3761 000	1	SWITCH KEY
146 0073 00	1	KEY (1PC)
33017385	1	RELAY TIMER 0.5 SEC. (T2)
33017356	1	HARNESS RELAY BATTERY
33019197	1	RELAY TIMER 0.5 SEC. (T3)
33017360	1	BREAKER CIRCUIT 16A
33018858	1	BROOM MAIN SPIRAL PPL 0.5 WHITE NAVY/STEEL 0.36
33002106	1	SPRING MAIN BROOM
33018866	1	SUPPORT BEARING KIT
33018867	1	ROD SPRING KIT
33018868	1	LEVER WELDED KIT
33018869	1	ROD LEVER KIT
33019568	1	FAN COOLING 48V 5.8W DC
33019625	1	CARBON BRUSH KIT 4PCS
33017260	1	ELECTRIC MOTOR 48V 7 KW (MP)
33017361	3	BREAKER CIRCUIT 10A (F1 - F5 - F6)
33017357	1	HARNESS REAR COVER
33009648	1	WHEEL SUPERELASTIC 4.00
33016944	2	WHEEL ASM WITH BEARINGS
33017376	1	HARNESS MAIN BATTERY
33017362	1	HARNESS ELECTRIC MOTOR
909 5101 000	1	FUSE 30A (F10)
33019166	1	CONNECTOR 350 AMP BLUE (C1)
33008583	1	POWER FUSE 250A (F0)
33017449	1	CONTACTOR UNIPOLAR 48V (ES0)

2009-09	OPTIONALS			
	Proterra™			65

Ref. No.	Qty	Description	Version
8-24-04139-2	1	PANEL FILTER WATER RESISTENT	
33018889	1	BROOM SIDE PPL 1,5/STEEL	
33018890	1	BROOM SIDE NYLON 0,5	
33018856	1	BROOM MAIN SPIRAL NYLON 1.2	
33018857	1	BROOM MAIN SPIRAL PPL 0.5 WHITE NAVY	
33018859	1	BROOM MAIN SPIRAL UNION MIX	
33019173	1	LEFT SIDE BROOM KIT	
33019377	1	PRE MISTING SYSTEM KIT	
33019172	1	WHEEL SOLID NON MARKING KIT	
33019171	1	OVER HEAD GUARD KIT	
33019176	1	POCKET FILTER KIT 12V	
33019174	1	TILT STEERING	
56507740	1	POCKET WATER RESISTANT FILTER	
56507027	1	FIRE EXTIGUISHER KIT	
56508663	1	SIDE-VIEW MIRRORS FOR USE WITH OHG AND CAB	
33019554	1	SEAT BELT KIT	
33019570	1	MAT FLOOR KIT	
33019572	1	GUARD REAR BUMPER KIT	
33019560	1	FRONT LIGHT 48V KIT	
33019573	1	HOPPER STOP KIT	
33019574	1	BACKUP ALARM KIT (BZ1)	
56305223	1	PIVOTING LIGHT (BE1)	
56507830	1	DRIVER'S SIDE WORKING LIGHT	
56507830	1	REAR WORKING LIGHT	
56305627	1	HOOD INNER LIGHT	
56305518	1	CLOGGED AIR FILTER SENSOR	
56507029	1	HOPPER TEMPERATURE SENSOR	
# 56507040	1	SUSPENSION SEAT - ADJUSTABLE BACK TILT - ARM REST - SEAT BELT	
# 33020006	1	LITTER VAC	
# 33020056	1	CLOGGED DUST CONTROL FILTER INDICATOR	
# 56507038	1	AMBER STROBE LIGHT (WITHOUT OHG OR CAB)	
# 33019571	1	FRONT CORNER GUARDS - FOR BOTH LEFT AND RIGHT CORNERS	
# 56507033	1	RAISED ENGINE AIR INTAKE WITH PREFILTER	
# 8-83-04016	1	LP TANK WITH OUTAGE AND FILLER VALVE, LP MODELS ONLY	
# 56507039	1	AMBER STROBE LIGHT FOR USE WITH OHG	
# 56507041	1	RAISED AIR INTAKE WITH PREFILTER FOR USE WITH OHG	
# 33020002	1	SOFT-SIDED CAB FOR WEATHER PROTECTION (MUST ORDER OHG)	
# 56507916	1	STRAINER/CHECK VALVE, DUSTGUARD	
# 56508709	1	0.1 GALLON (0.379 LITER) PER MIN. NOZZLE TIP FOR HIGH DUST APPL.	
# 56507908	1	CAP, DUSTGUARD, YELLOW, TOOLS-FREE	
# 33021392	1	FRONT PROTECTION KIT	
# 33019794	1	PLATE ENGINE COVER STIFFE	



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