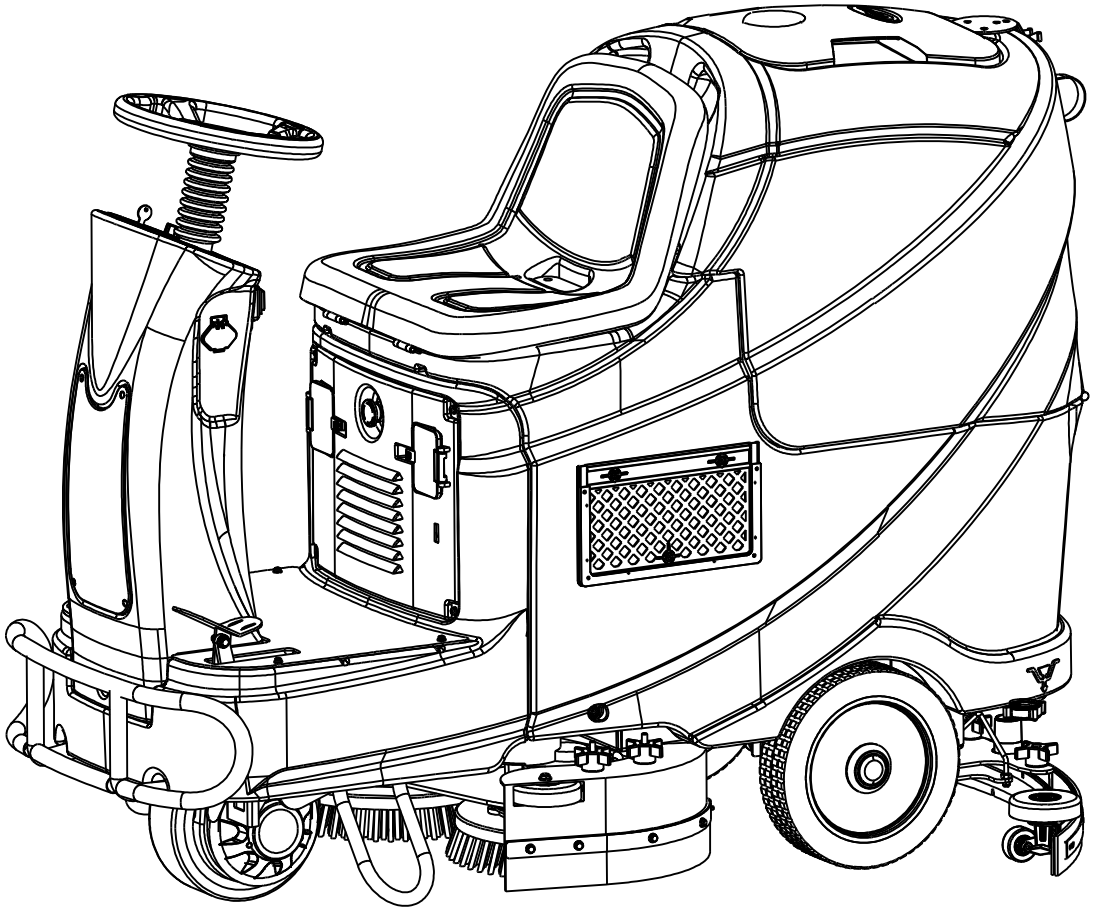
CROWN GR28 AUTO SCRUBBER

OPERATOR'S MANUAL

IMPORTANT: READ OPERATOR'S MANUAL CAREFULLY

Please fill out & return your warranty card!



MODEL # DP80228

SERIAL # _____

Diamond Products www.diamondproductsus.com Printed in the U.S.A.

Model: _____

Date of Purchase: _____

Serial Number: _____

Dealer: _____

Address: _____

Phone Number: _____

Sales Representative: _____

Welcome…and congratulations on the purchase of your Diamond Products US product. This instruction manual is a guide for operating and servicing your unit. **Read this manual completely before operating this unit.**

Proper operation and service are essential to the efficient functioning of this unit. When maintained correctly, this unit will have a long, trouble-free life. Any questions pertaining to operating or servicing this unit should be directed to your nearest dealer.

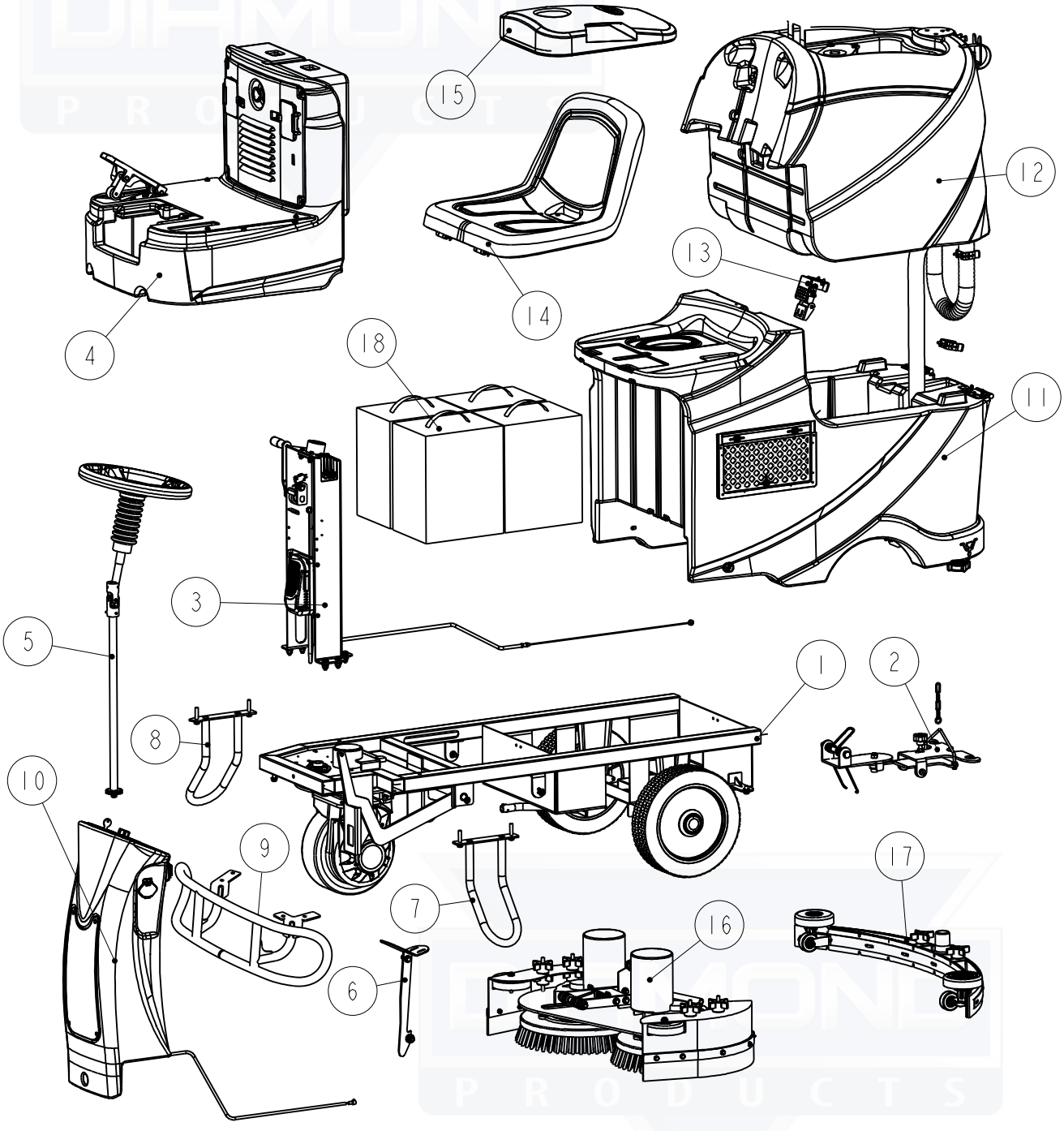
Information in this document is subject to change without notice and does not represent a commitment on the part of Diamond Products US.

Warranty Information

Thank you for purchasing a Diamond Products US product. Warranty registration is quick and easy. Your registration will allow us to serve you better over the lifetime of the product.

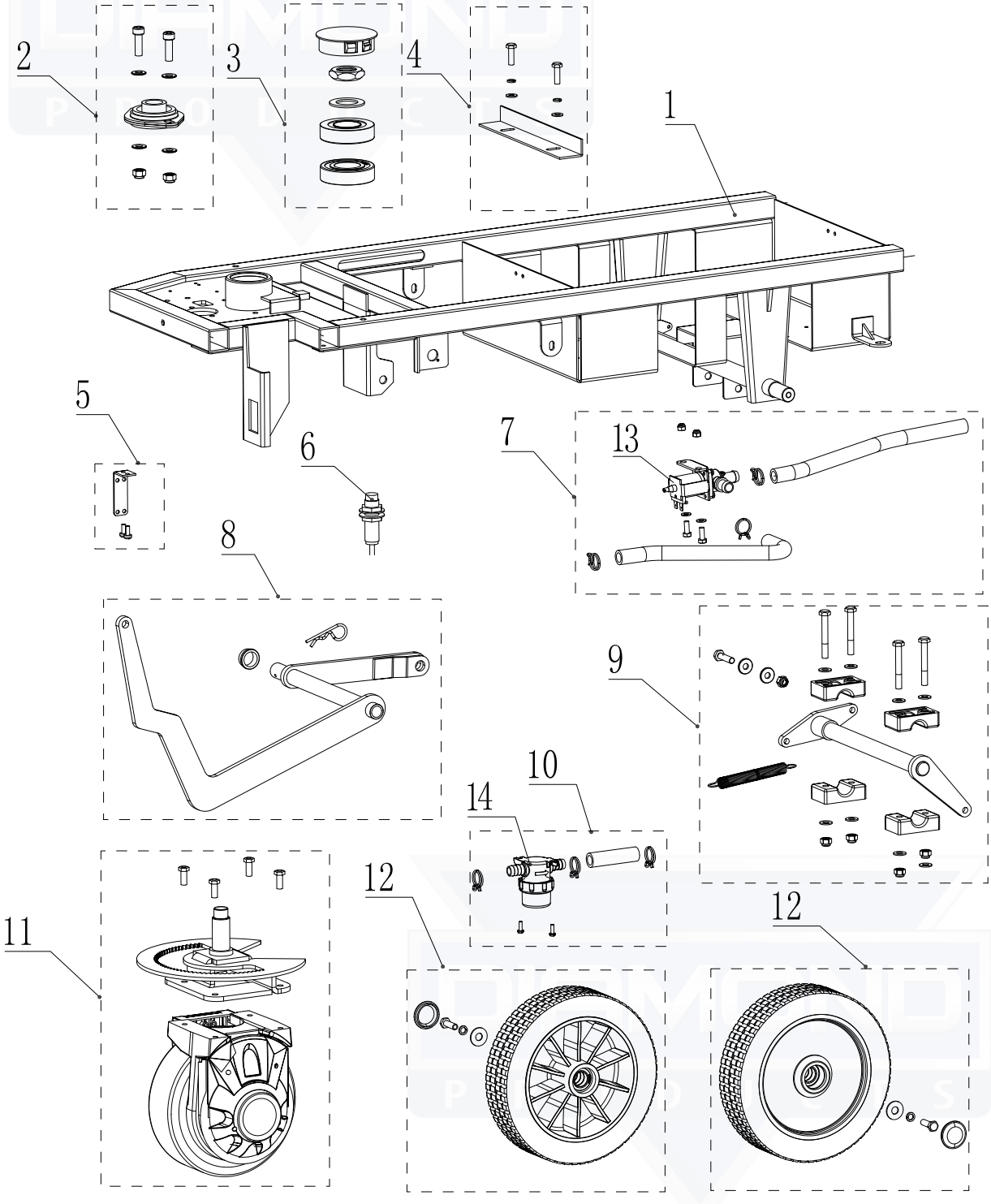
To register your product, email your warranty card information to:
info@diamondproductsus.com

COMPLETE ASSEMBLY



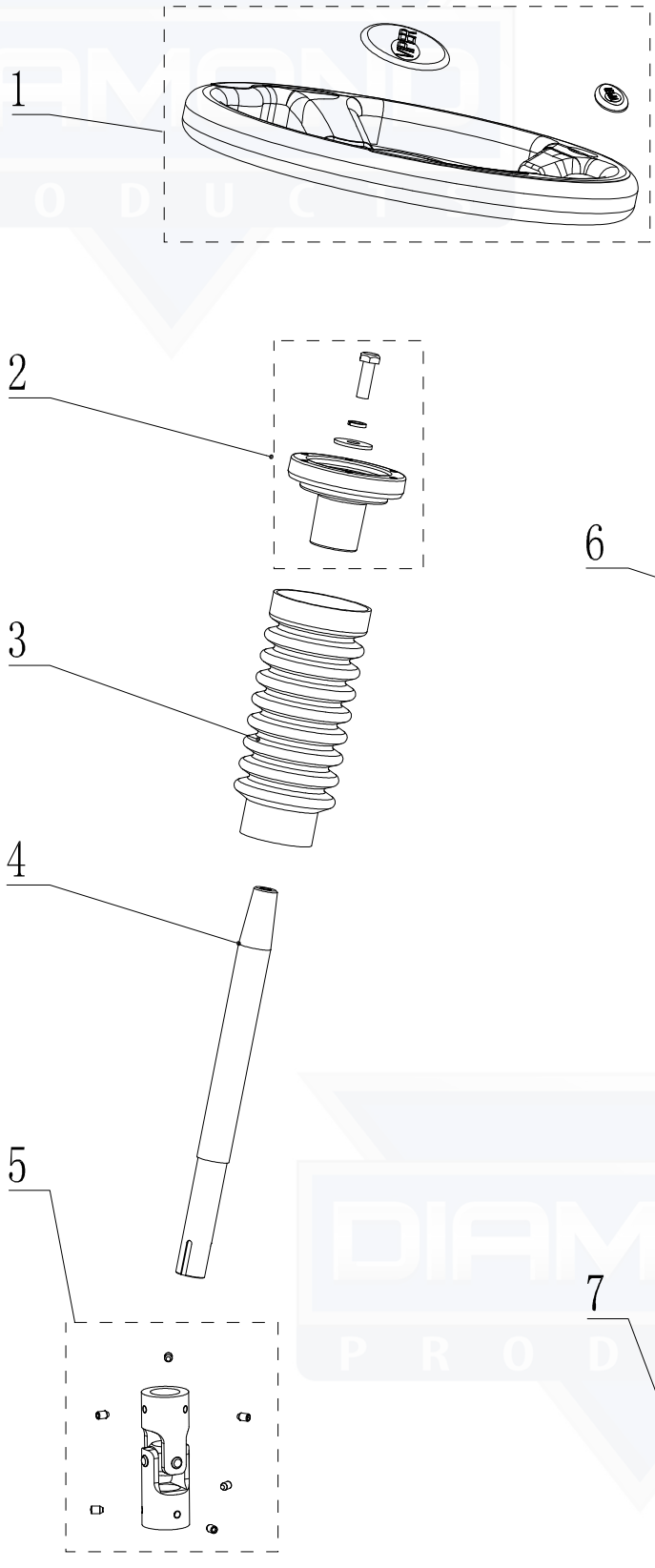
COMPLETE ASSEMBLY		
Item	Description	Qty
1	DRIVER ASSY AND MAIN FRAME	1
2	SQUEEGEE BRACKET ASSEMBLY	1
3	FRONT MAIN FRAME ASSEMBLY	1
4	ELECTRIC PARTS ASSEMBLY	1
5	DIRECTION CONTROL ASSEMBLY	1
6	LIFT BRUSH PEDAL ASSEMBLY	1
7	LEFT CRUSH-PROTECT ASSEMBLY	1
8	RIGHT CRUSH-PROTECT ASSEMBLY	1
9	KIT FRONT CRUSH-PROTECT	1
10	FRONT HOUSING ASSEMBLY	1
11	SOLUTION TANK ASSEMBLY	1
12	RECVOERY TANK ASSEMBLY	1
13	RECOVERY TANK LOCK ASSEMBLY	1
14	SEAT ASSEMBLY	1
15	RECOVERY TANK COVER ASSEMBLY	1
16	BRUSH ASSEMBLY	1
17	SQUEEGEE ASSEMBLY	1
18	BATTERIES 6V 245AH	4

DRIVE MOTOR AND CHASSIS ASSEMBLY



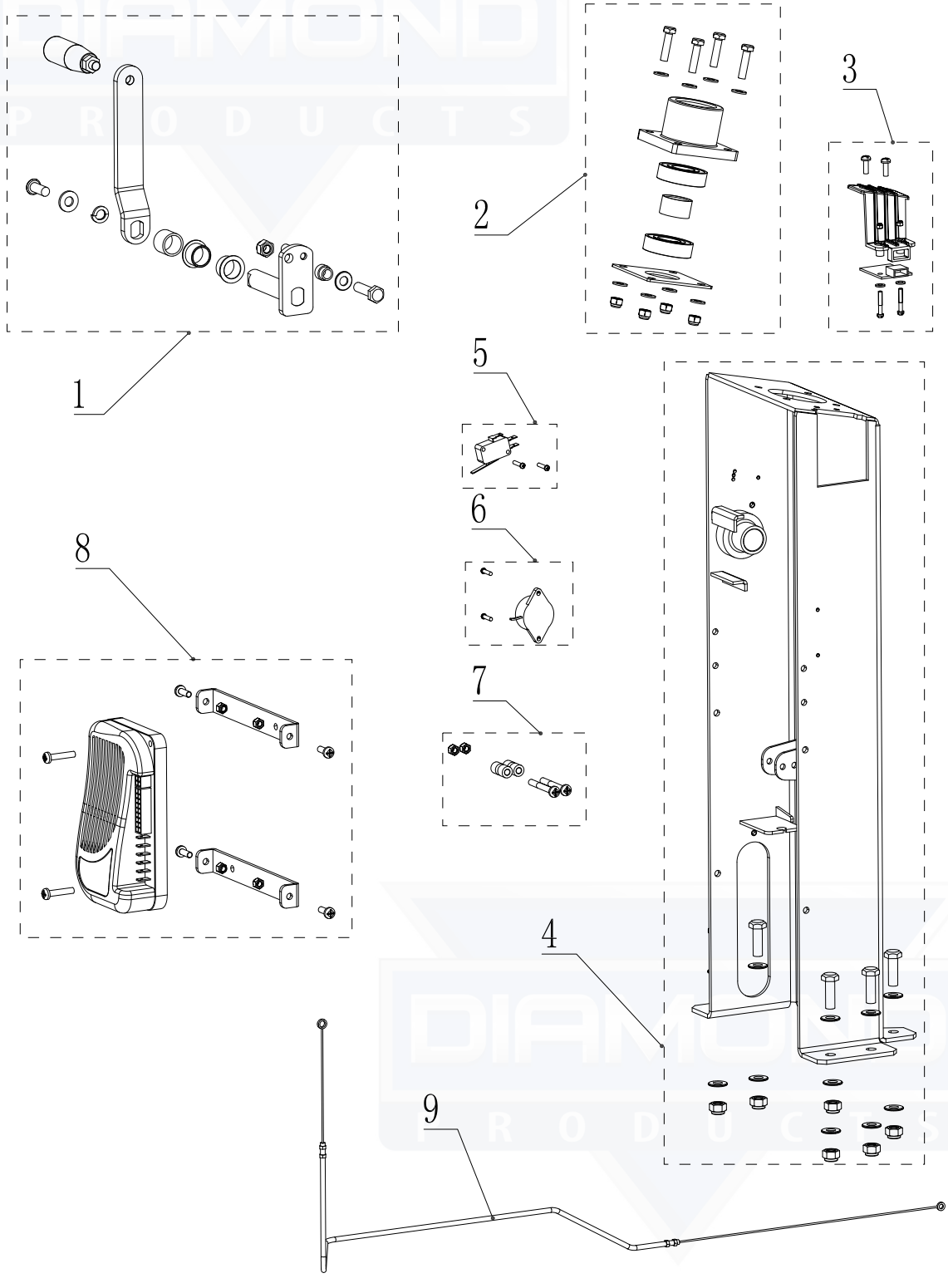
DRIVE MOTOR AND CHASSIS ASSEMBLY			
Item	Part No	Description	Qty
1	VR11100	CHASSIS	1
2	VR11016	KIT BEARING WITH BRACKET	1
3	VR11501	KIT DRIVE MOTOR BEARING	1
4	VR11502	KIT BATTERY BRACKET	1
5	VR11503	KIT DRIVE MOTOR BRACKET	1
6	VR13435	SENSOR SWITCH	1
7	VR11506	KIT SOLENOID VALVE	1
8	VR11505	BRACKET KIT BRUSH LIFT	1
9	VR11507	BRACKET KIT SQUEEGEE LIFT	1
10	VR11508	KIT FILTER	1
11	VR11200	KIT DRIVE MOTOR	1
12	VR11504	KIT REAR WHEEL	2
13	VR11600	VALVE	1
14	VF90621	FILTER	1

DIRECTION CONTROL ASSEMBLY



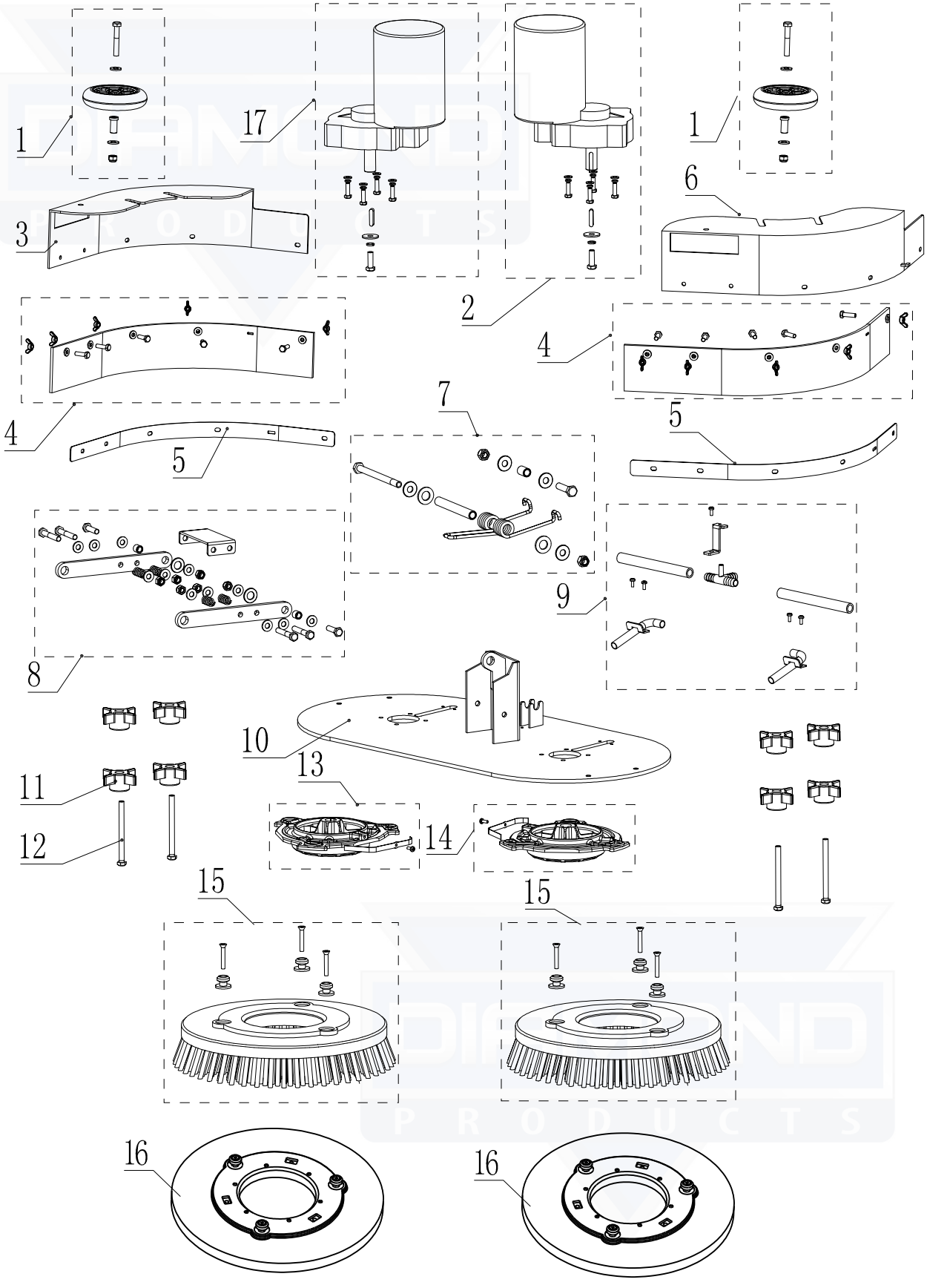
DIRECTION CONTROL ASSEMBLY			
Item	Part No	Description	Qty
1	VR10033	STEERING WHEEL	1
2	VR10039	RUBBER SLEEVE STEERING WHEEL	1
3	VR10014	KIT STEERING WHEEL LOCK	1
4	VR10001	UP SHAFT STEERING WHEEL	1
5	VR10040	KIT UNIVERSAL JOINT	1
6	VR11301	DOWN SHAFT STEERING WHEEL	1
7	VR11303	KIT GEAR	1

FRONT MAIN FRAME ASSEMBLY



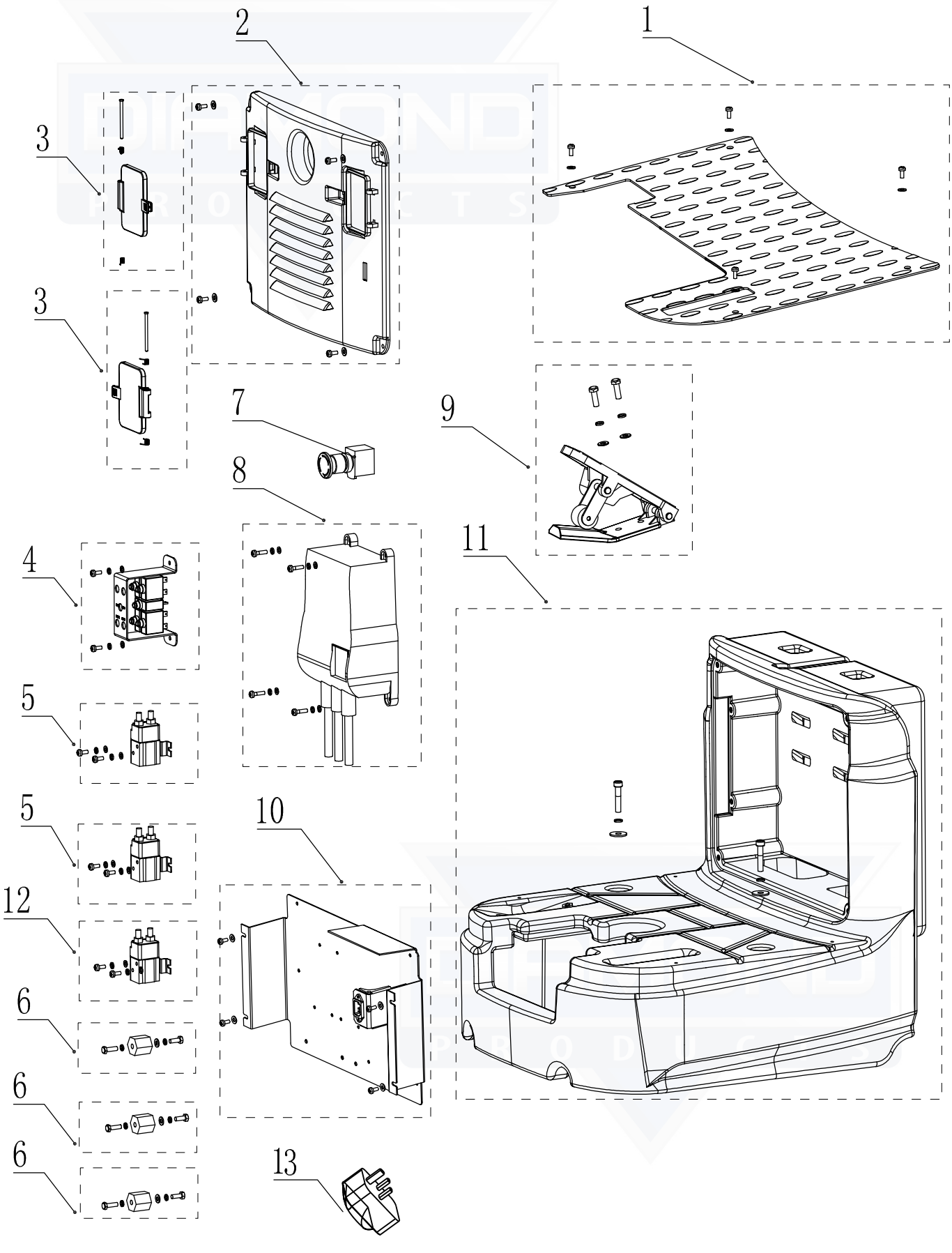
FRONT MAIN FRAME ASSEMBLY			
Item	Part No	Description	Qty
1	VR12100	HANDLE KIT SQUEEGEE LIFT	1
2	VR12200	KIT BEARING BASE	1
3	VR12300	KIT USB	1
4	VR12401	KIT FRONT FRAME	1
5	VR12403	KIT SQUEEGEE SWITCH	1
6	VR12013	KIT HORN	1
7	VR12402	KIT CABLE GUIDE WHEEL SQUEEGEE LIFT	1
8	VR12404	KIT DRIVE MOTOR CONTROL	1
9	VR12004	CABLE SQUEEGEE LIFT	1

BRUSH ASSEMBLY



BRUSH ASSEMBLY			
Item	Part No	Description	Qty
1	VR14016	KIT BUMPER WHEEL	2
2	VR14013	KIT BRUSH MOTOR LEFT	1
3	VR14501	BRUSH SKIRT MOUNT RIGHT	1
4	VR14015	KIT BRUSH SKIRT	2
5	VR14403	STRAP KIT SKIRT	2
6	VR14401	BRUSH SKIRT MOUNT LEFT	1
7	VR14017	KIT BRUSH TORSION SPRING	1
8	VR14012	KIT BRUSH LIFT ARM	1
9	VR14014	KIT BRUSH WATER OUTLET	1
10	VR14001	BRUSH MOUNTING FARAME	1
11	VF81210	TUMB NUT	8
12	VR14005	BOLT M8X100 HEX	4
13	VR14100	KIT LEFT BRUSH HUB	1
14	VR14200	KIT RIGHT BRUSH HUB	1
15	VR14300	KIT BRUSH	2
16	VR14303	PAD DRIVER 14″	2
17	VR14023	KIT BRUSH MOTOR RIGHT	1

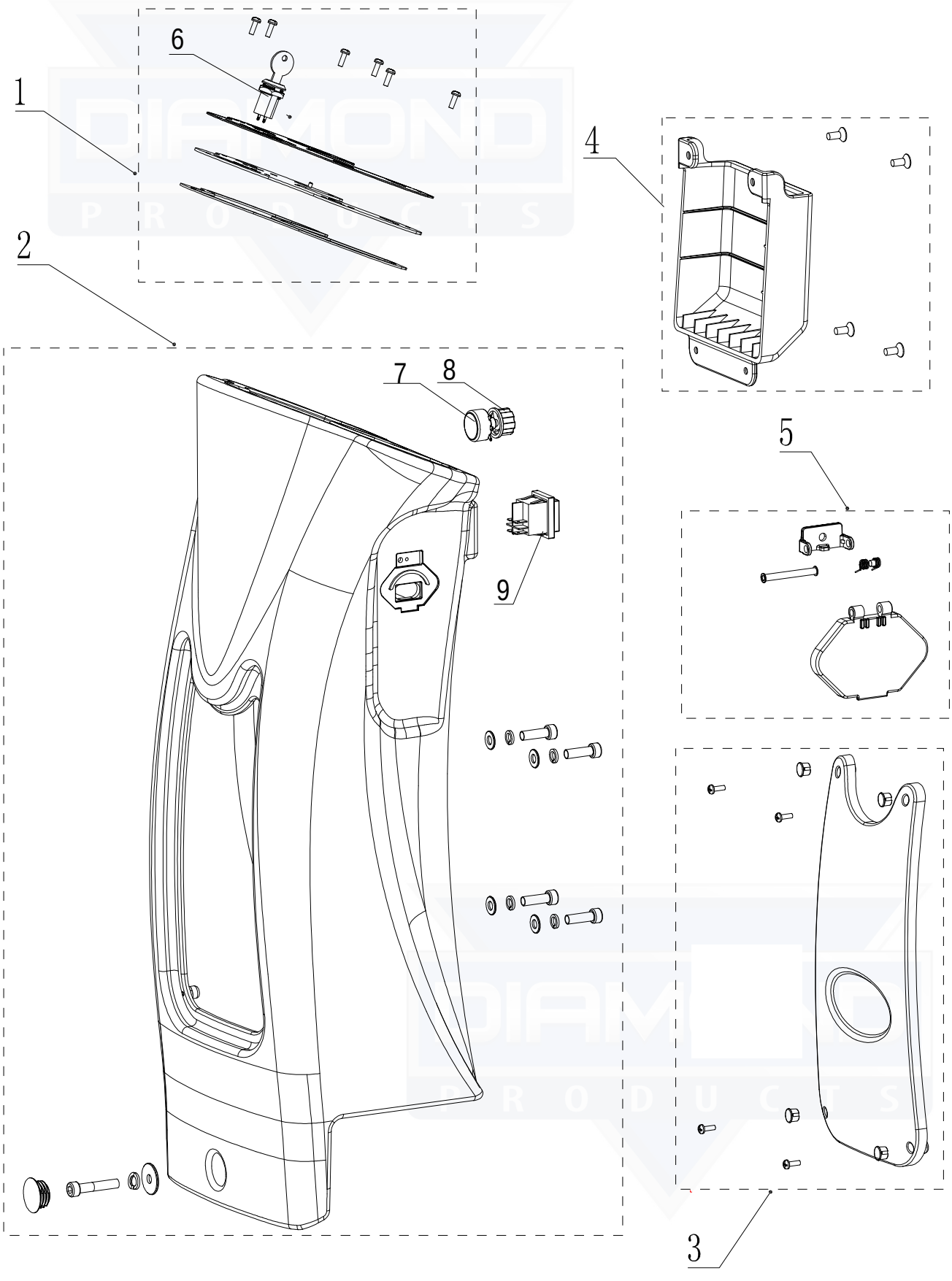
ELECTRIC PARTS ASSEMBLY



ELECTRIC PARTS ASSEMBLY			
Item	Part No	Description	Qty
1	VR13003	KIT ANTI-SKID PLATE	1
2	VR13110	LID KIT ELECTRIC BOX	1
3	VR13120	KIT TRANSPARENT LID	2
4	VR13220	KIT BREAKER	1
5	VR13230	KIT CONTACTOR	2
6	VR13250	KIT CONNECT WIRE POLE	3
7	VR13132	EMERGENCY-STOP BUTTON	1
8	VR13240	KIT CHARGER EU VERSION	1
	VR13445	KIT CHARGER CN VERSION	1
	VR13442	KIT CHARGER US VERSION	1
9	VR13300	KIT SPEED CONTROL PEDAL	1
10	VR13210	KIT ELECTRIC PARTS MOUNTING PLATE	1
11	VR13004	KIT ELECTRIC BOX	1
12	VR13260	KIT RELAY	1
13*	VF82178	UK CONVERTER	1

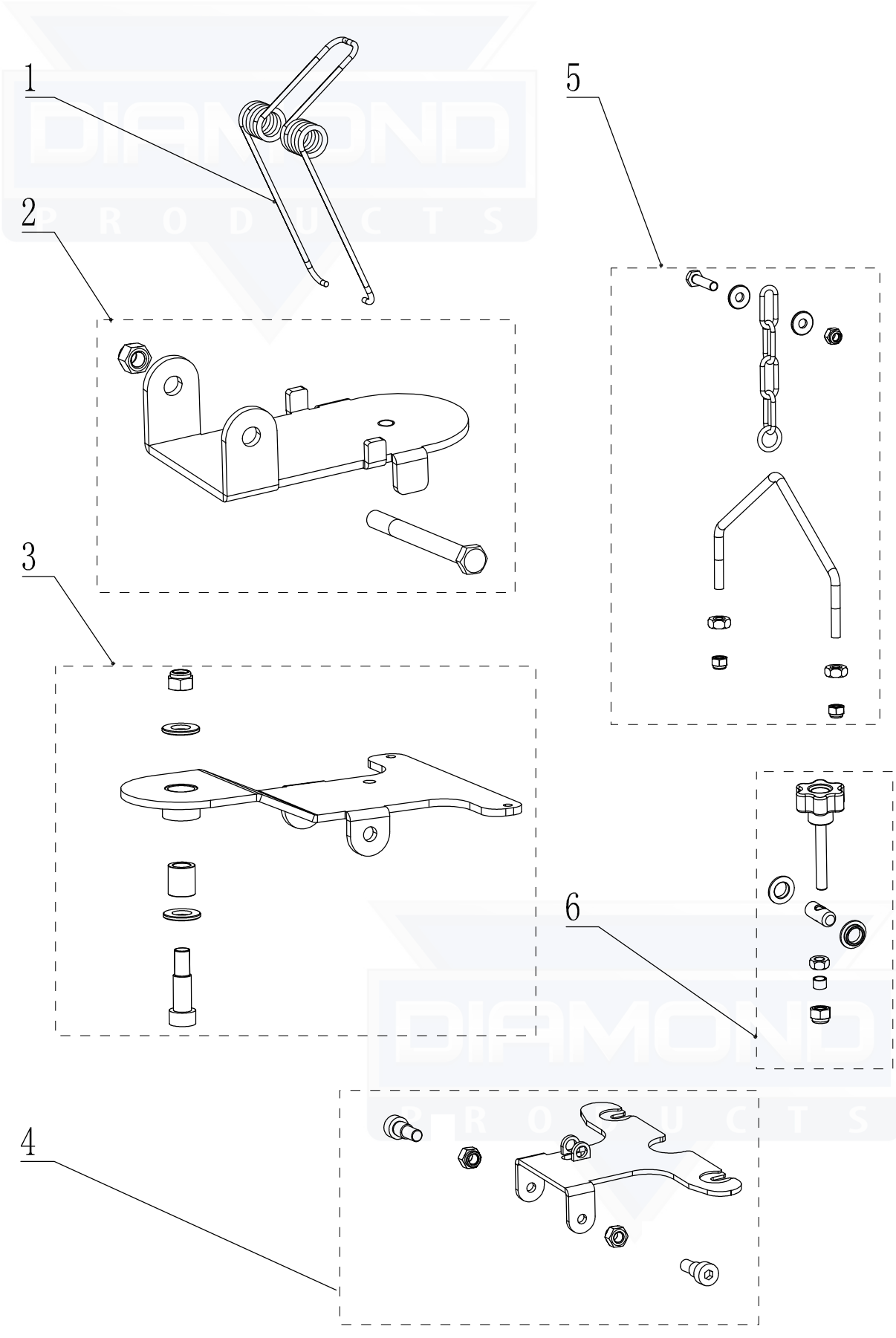
*----------OPTIONAL

CONTROL HOUSING ASSEMBLY



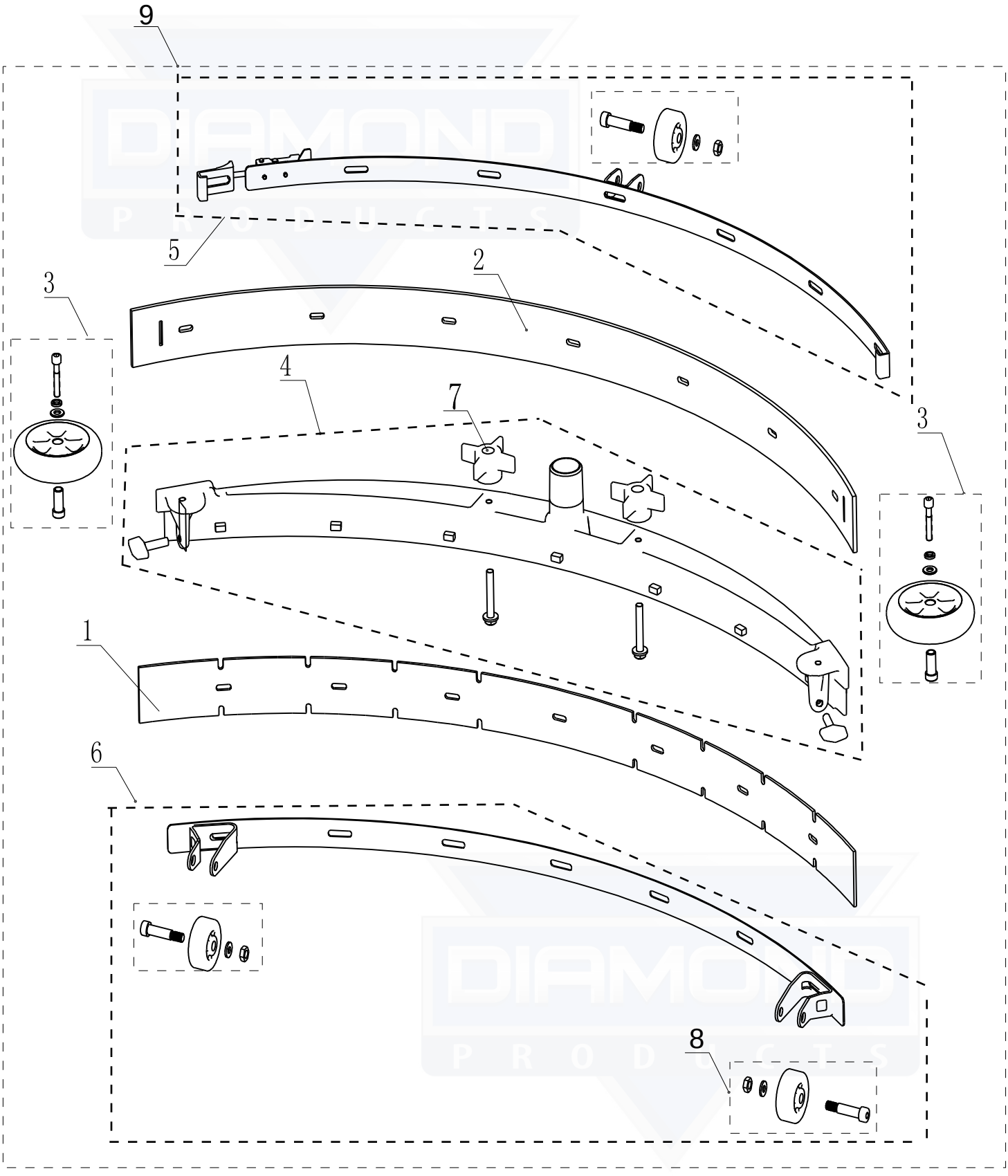
CONTROL HOUSING ASSEMBLY			
Item	Part No	Description	Qty
1	VR15100	KIT CONTROL PANEL	1
2	VR15008	KIT CONTROL HOUSING	1
3	VR15009	LID KIT DRIVE MOTOR CONTROL	1
4	VR15011	KIT PHONE STORAGE	1
5	VR15200	KIT USB COVER	1
6	VR13436	KEY SWITCH	1
7	VR13441	SPEED POTENTIOMETER	1
8	VF81730	POTENTIOMETER KNOB	1
9	VR15110	FORWARD OR REVERSE BUTTON	1

SQUEEGEE BRACKET ASSEMBLY



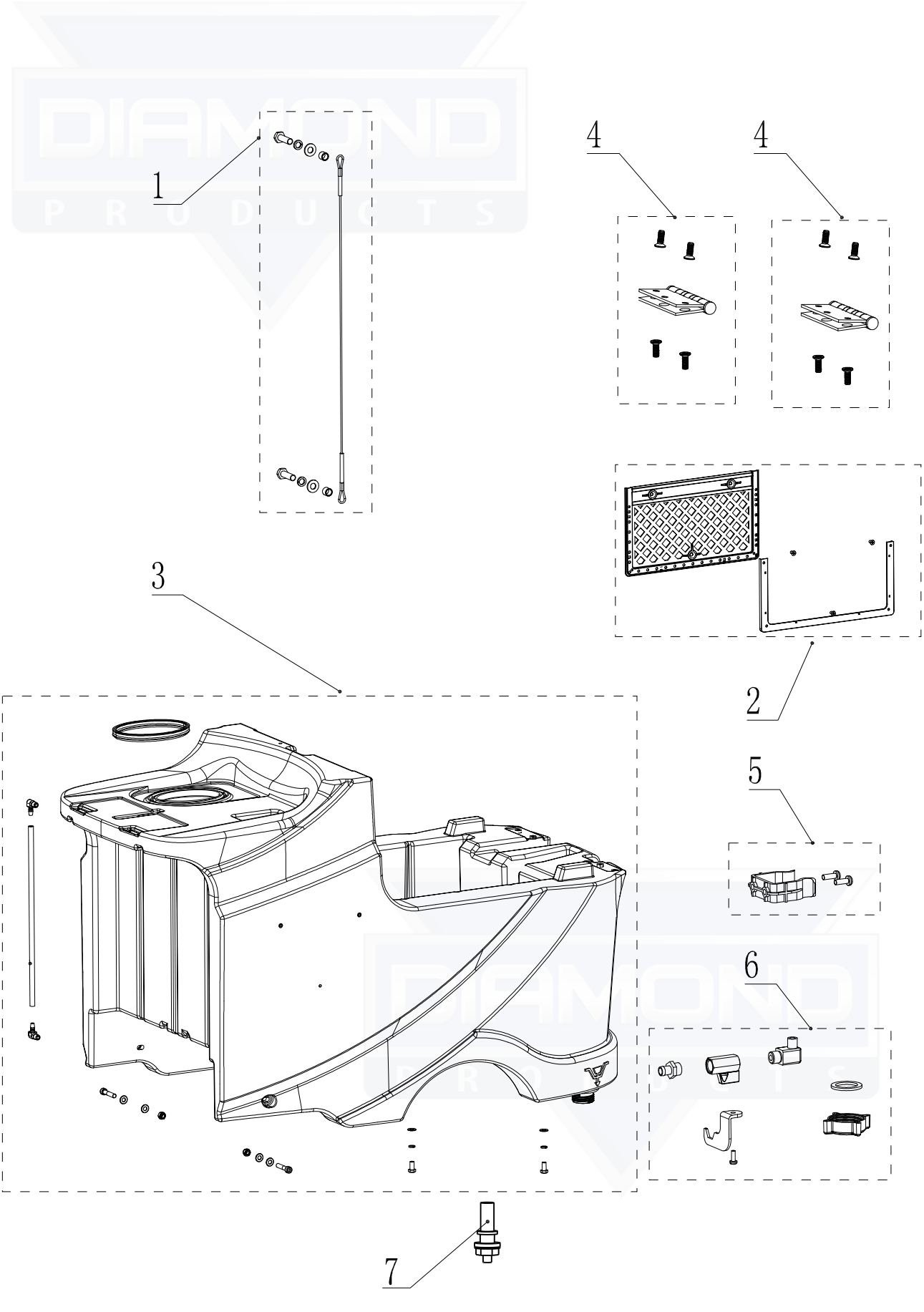
SQUEEGEE BRACKET ASSEMBLY			
Item	Part No	Description	Qty
1	VR11402	TORSION SPRING SQUEEGEE	1
2	VR11408	KIT SQUEEGEE BRACKET	1
3	VR11409	KIT SQUEEGEE MOUNTING PIVOT	1
4	VR11410	KIT SQUEEGEE ADJUSTMENT BRACKET	1
5	VR11411	KIT SQUEEGEE LIFT CHAIN	1
6	VR11412	KIT SQUEGEE ADJUSTMENT HANDLE	1

SQUEEGEE ASSEMBLY



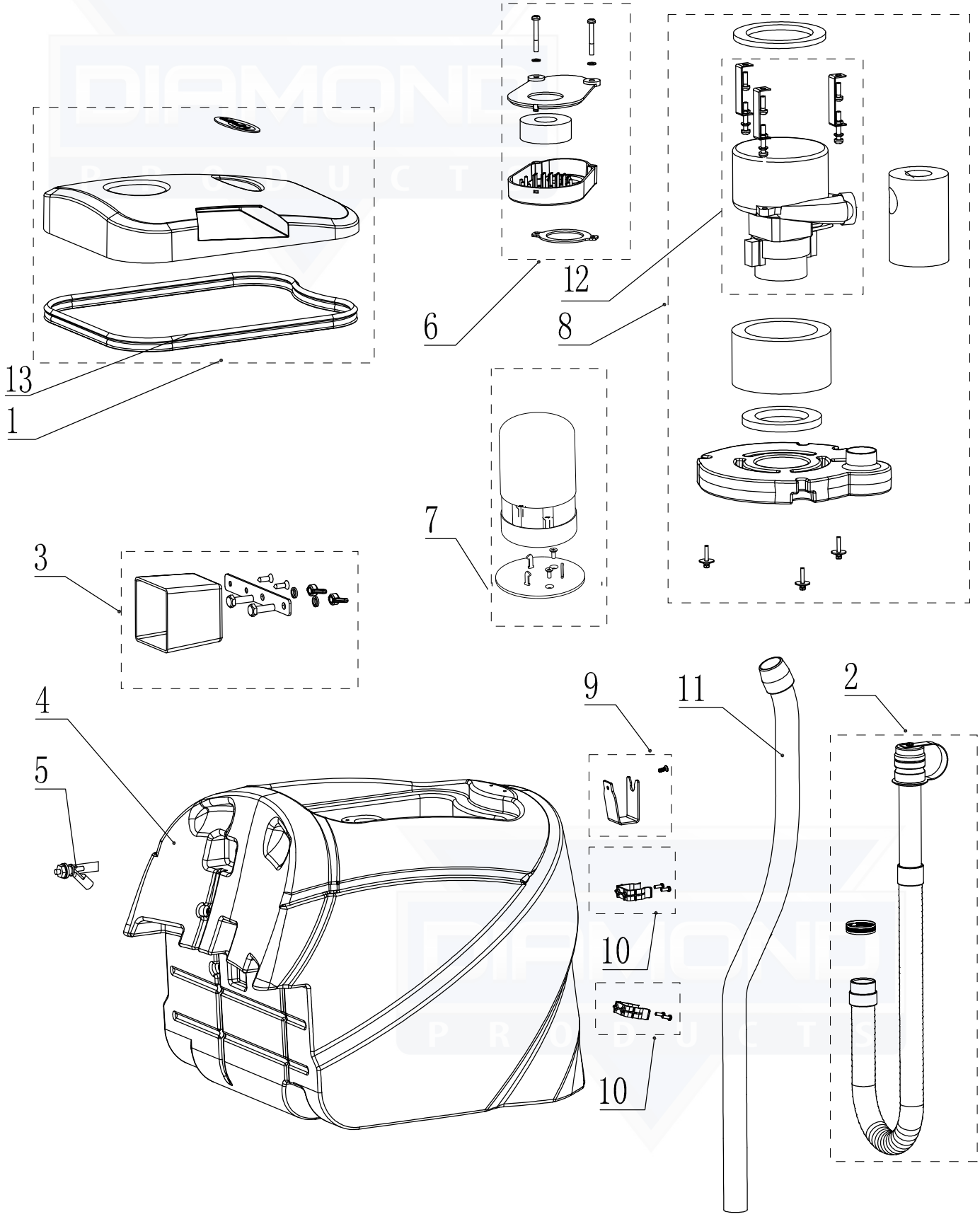
SQUEEGEE ASSEMBLY			
Item	Part No	Description	Qty
1	VR16002	SQUEEGEE BLADE FRONT	1
2	VR16003	SQUEEGEE BLADE REAR	1
3	VR16007	WHEEL KIT BUMPER	1
4	VR16008	SQUEEGEE ALUMINUM BODY	1
5	VR16200	STRAP KIT REAR SQUEEGEE	1
6	VR16100	STRAP KIT FRONT SQUEEGEE	1
7	VF81210	TUMB NUT	2
8	VF90136	SQUEEGEE GUIDE WHEEL	3
9	VR16000	SQUEEGEE ASSEMBLY	1

SOLUTION TANK ASSEMBLY



SOLUTION TANK ASSEMBLY			
Item	Part No	Description	Qty
1	VR17170	PULL CABLE RECOVERY TANK	1
2	VR17300	KIT NET BAG	1
3	VR17601	KIT SOLUTION TANK	1
4	VR17602	HINGE KIT RECOVEY TANK	2
5	GV70034	HOSE CLAMP	2
6	VR17604	KIT WATER ADJUSTMENT	1
7	VR13430	SWITCH SOLUTION TANK WATER LEVEL	1

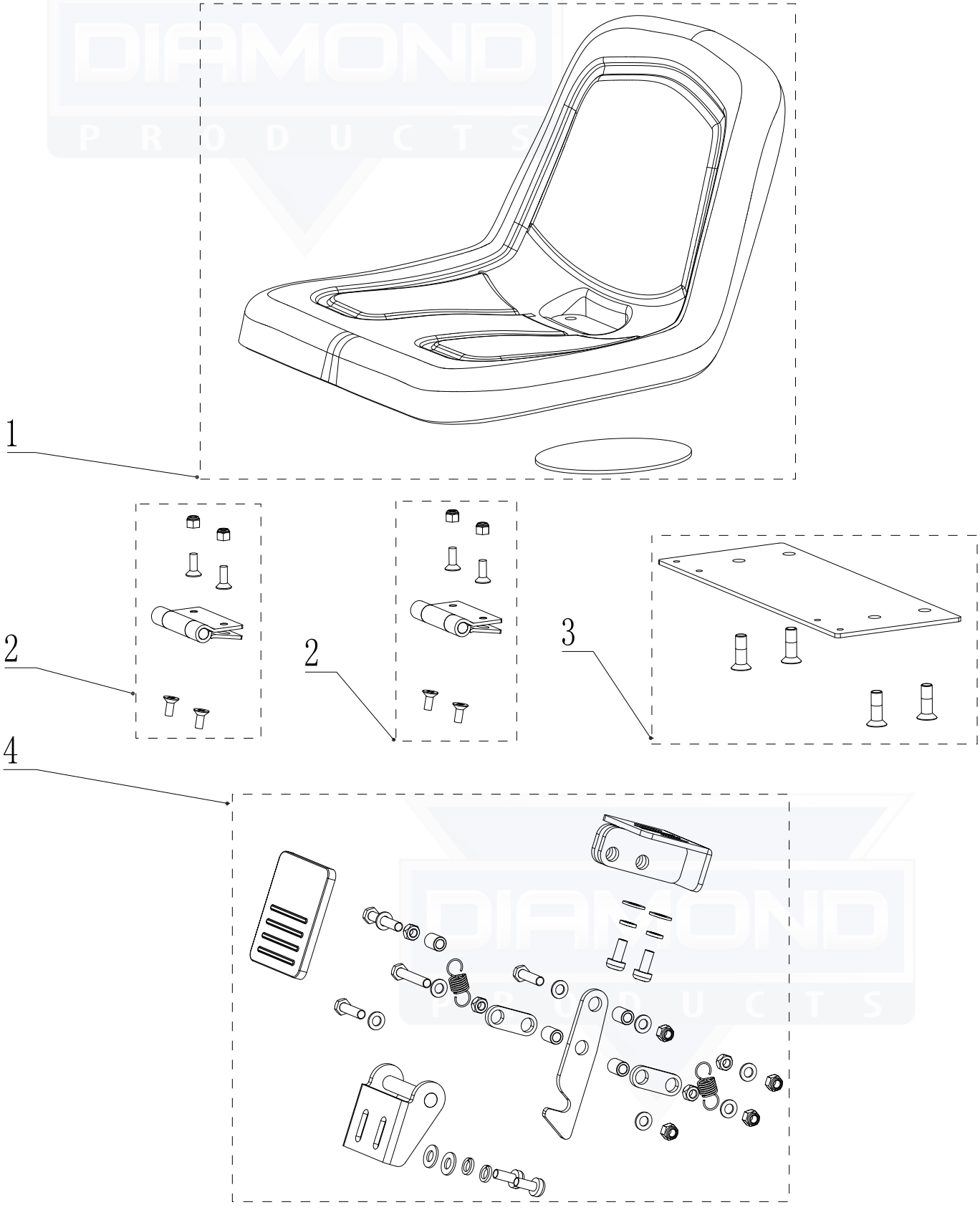
RECOVERY TANK ASSEMBLY



RECOVERY TANK ASSEMBLY			
Item	Part No	Description	Qty
1	VR17140	LID KIT RECOVERY TANK	1
2	VR17606	KIT DRAIN HOSE	1
3	VR17107	LID KIT WATER LEVEL SWITCH RECOVERT TANK	1
4	VR17101	RECOVERY TANK	1
5	VR13431	SWITCH WATER LEVEL RECOVERY TANK	1
6	VR17130	KIT VACUUM HOLE	1
7*	VR17160	KIT WARNING LIGHT	1
8	VR17120	KIT VACUUM MOTOR AND FIXING	1
9	VR17605	KIT SQUEEGEE HOOK	1
10	VR17603	KIT HOSE CLAMP	2
11	VR17006	SQUEEGEE HOSE	1
12	VR17119	KIT VACUUM MOTOR	1
13	VR17109	SEALING	1

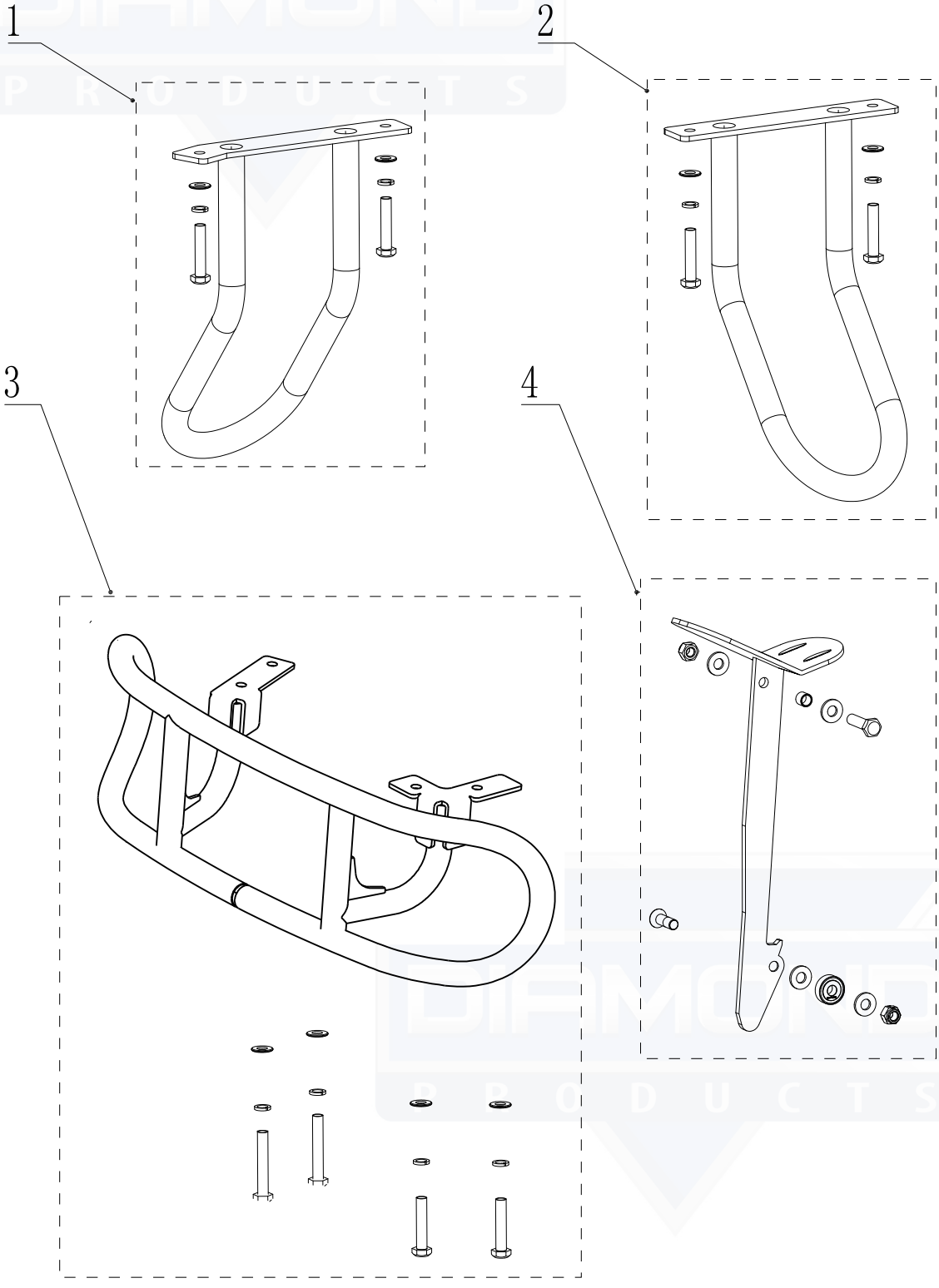
*----------OPTIONAL

SEAT ASSEMBLY



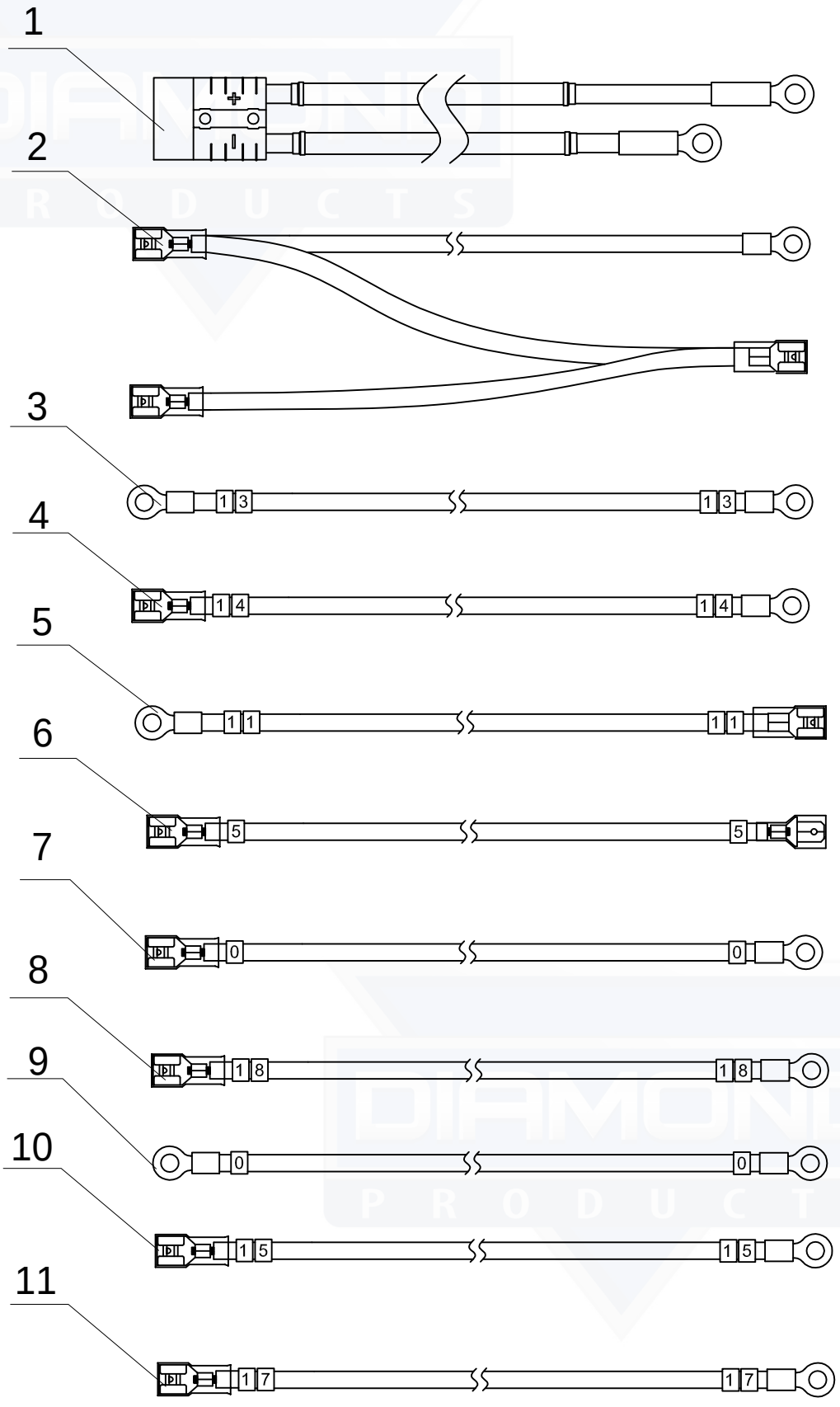
SEAT ASSEMBLY			
Item	Part No	Description	Qty
1	VR17405	KIT SEAT	1
2	VR17406	HINGE KIT SEAT	2
3	VR17407	KIT SEAT MOUNTING PLATE	1
4	VR17200	KIT RECOVERY TANK LATCH	1

BUMPER ASSEMBLY



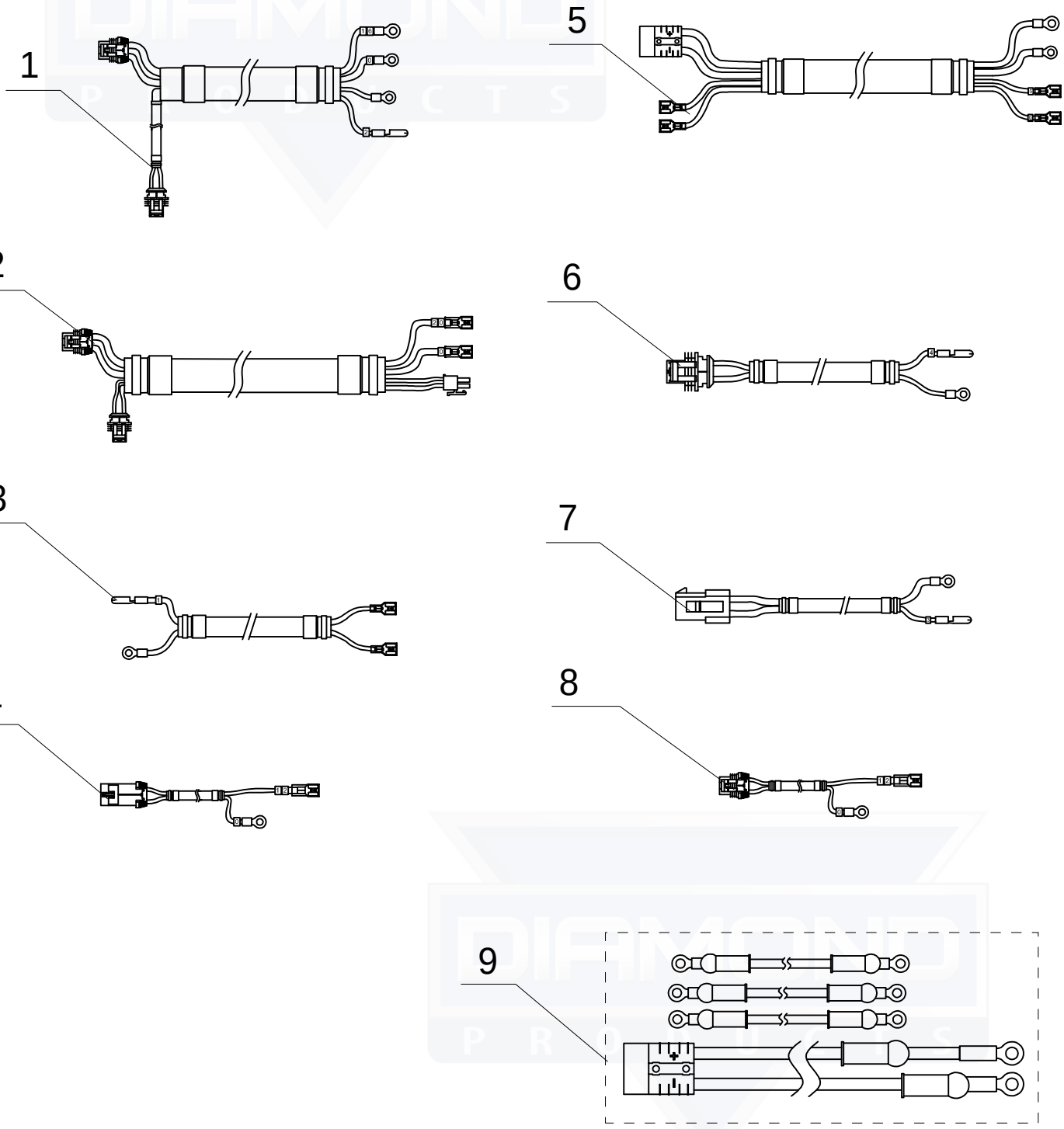
BUMPER ASSEMBLY			
Item	Part No	Description	Qty
1	VR10028	KIT RIGHT BUMPER	1
2	VR10026	KIT LEFT BUMPER	1
3	VR10027	KIT FRONT BUMPER	1
4	VR10012	PEDAL KIT BRUSH LIFT	1

ELECTRIC PARTS



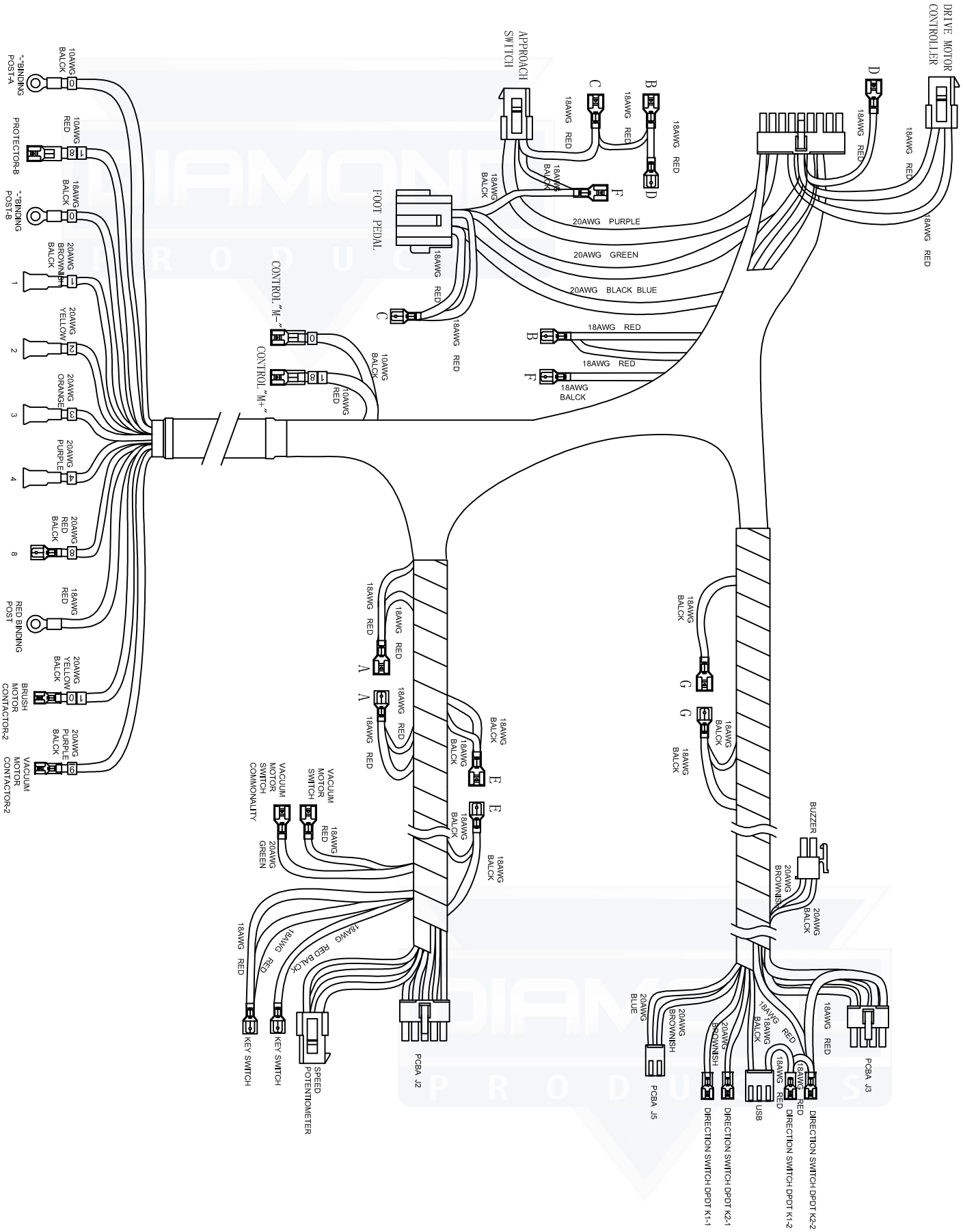
ELECTRIC PARTS			
Item	Part No	Description	Qty
1	VR13414	KIT BATTERIES 24V WIRE	1
2	VR13418	KIT CONTACTOR WIRE	1
3	VR13424	MAIN CONTACTOR TO BRUSH MOTOR CONTACTOR WIRE	1
4	VR13422	VACUUM MOTOR BREAKER TO VACUUM MOTOR BREAKER WIRE	1
5	VR13425	BRUSH MOTOR CONTACTOR TO BRUSH MOTOR BREAKER WIRE	1
6	VR13421	MAIN BREAKER TO EMERGENCY-STOP BUTTON WIRE	1
7	VR13417	MAIN CONTACTOR TO NEGATIVE CONNECT POLE WIRE	1
8	VR13419	MAIN CONTACTOR TO MAIN BREAKER WIRE	1
9	VR13416	NEGATIVE CONNECT POLE WIRE	1
10	VR13420	MAIN CONTACTOR TO VACUUM MOTOR BREAKER WIRE	1
11	VR13437	MAIN CONTACTOR TO DRIVE MOTOR BREAKER WIRE	1

OTHER ELECTRIC PARTS ASSEMBLY



OTHER ELECTRIC PARTS ASSEMBLY			
Item	Part No	Description	Qty
1	VR13423	KIT VACUUM MOTOR WIRE EU VERSION	1
	VR13443	KIT VACUUM MOTOR WIRE CN/US VERSION	1
2	VR13438	KIT DRIVE MOTOR WIRE	1
3	VR13428	KIT WATER ELETRO VALVE WIRE	1
4	VR13426	KIT RIGHT BRUSH MOTOR WIRE	1
5	VR13413	KIT OUTWITH CHARGER WIRE	1
6	VR13429	SWITCH SOLUTION TANK WATER LEVEL WIRE	1
7	VR13433	KIT SEAT SWITCH WIRE	1
8	VR13427	KIT LEFT BRUSH MOTOR WIRE	1
9	VR13412	KIT BATTERIES 6V 245AH WIRE	1

MAIN CONNECTING WIRE-VR13440



WEAR AND TEAR PARTS			
Item	Part No	Description	Qty
1	VR11506	KIT SOLENOID VALVE	1
2	VR12403	KIT SQUEEGEE SWITCH	1
3	VR12013	KIT HORN	1
4	VR14016	KIT BUMPER WHEEL	2
5	VR14015	KIT BRUSH SKIRT	2
6	VR14300	KIT BRUSH	2
7	VR13220	KIT BREAKER	1
8	VR13132	EMERGENCY-STOP BUTTON	1
9	VR15100	KIT CONTROL PANEL	1
10	VR16002	SQUEEGEE BLADE FRONT	1
11	VR16003	SQUEEGEE BLADE REAR	1
12	VR17300	KIT NET BAG	1
13	VR17603	KIT HOSE CLAMP	3
14	VR13431	SWITCH WATER LEVEL RECOVERY TANK	1
15	VR17006	SQUEEGEE HOSE	1
16	VR17606	KIT DRAIN HOSE	1
17	VR11600	VALVE	1
18	VF90621	FILTER	1
19	VR13436	KEY SWITCH	1
20	VR13441	SPEED POTENTIOMETER	1
21	VF81730	POTENTIOMETER KNOB	1
22	VR15110	FORWARD OR REVERSE BUTTON	1
23	VF81210	TUMB NUT	2
24	VF90136	SQUEEGGEE GUIDE WHEEL	3
25	VR17109	SEALING	1
26	VR14303	PAD DRIVER 13″	2