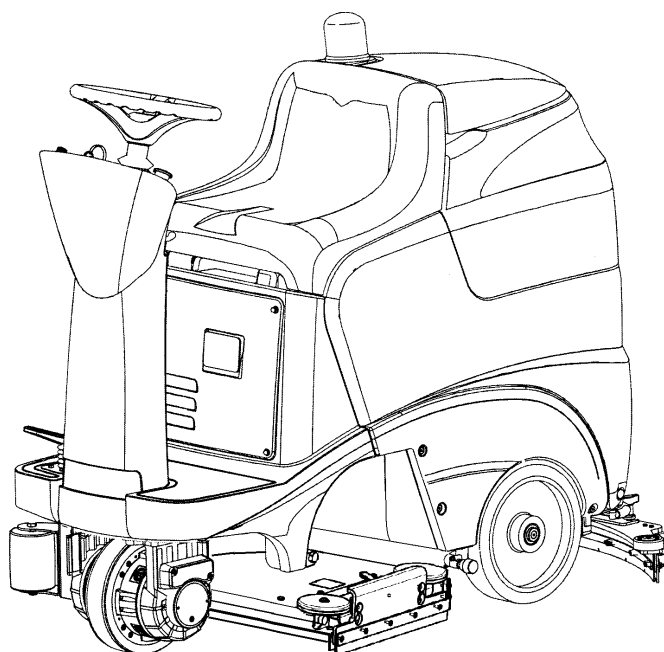


Clarke®

CR 28

BOOST®

Order Parts Here:



Operator's Manual

Libro de Instrucciones

Manuel d'utilisation



READ THIS BOOK

LEA ESTE MANUAL

LISEZ CE MANUEL

EN English (1 - 24)

ES Español (.... -)

FR Français (.... -)

This book has important information for the use and safe operation of this machine. Failure to read this book prior to operating or attempting any service or maintenance procedure to your Clarke machine could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of this machine before using it. If your operator(s) cannot read this manual, have it explained fully before attempting to operate this machine.

All directions given in this book are as seen from the operator's position at the rear of the machine. For new books write to: Clarke®, 2100 Highway 265, Springdale, Arkansas 72764.

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INTRODUCTION



NOTE

The numbers in brackets refer to the components shown in Machine Description chapter.

MANUAL PURPOSE AND CONTENTS

The purpose of this Manual is to provide the operator with all necessary information to use the machine properly in a safe and autonomous way. It contains information about technical data, safety, operation, storage, maintenance, spare parts and disposal. Before performing any procedure on the machine, the operators and qualified technicians must read this Manual carefully. Contact Clarke in case of doubts concerning the interpretation of the instructions and for any further information.

TARGET

This Manual is intended for operators and technicians qualified to perform the machine maintenance.

The operators must not perform procedures reserved for qualified technicians. Clarke will not be answerable for damages coming from the non-observance of this prohibition.

HOW TO KEEP THIS MANUAL

The Operator's Manual must be kept near the machine, inside an adequate case, away from liquids and other substances that can cause damage to it.

IDENTIFICATION DATA

The machine model and serial number are marked on the plate (30).

The machine production year is indicated by the first two figures of the machine serial number.

This information is useful when requiring machine spare parts. Use the following table to write down the machine identification data.

MACHINE model
MACHINE serial number

OTHER REFERENCE MANUALS

- Electronic battery charger Manual (to be considered as integral part of this Manual)

Moreover, the following Manuals are available:

- Service Manual (that can be consulted at any Clarke Service Center)
- Spare Parts List (supplied with the machine)

SPARE PARTS AND MAINTENANCE

All necessary operating, maintenance and repair procedures must be performed by qualified personnel or by Clarke Service Centers. Only original spare parts and accessories must be used.

Call Clarke for service or to order spare parts and accessories, specifying the machine model and serial number.

CHANGES AND IMPROVEMENTS

Clarke constantly improves its products and reserves the right to make changes and improvements at its discretion without being obliged to apply such benefits to the machines that were previously sold.

Any change and/or addition of accessory must be approved and performed by Clarke.

OPERATION CAPABILITIES

This scrubber-dryer is used to clean (scrubbing and drying) smooth and solid floors, in civil or industrial environment, under safe operation conditions by a qualified operator.

The scrubber-dryer cannot be used for moquette and carpet cleaning.

CONVENTIONS

Forward, backward, front, rear, left or right are intended with reference to the operator's position, that is to say on the driver's seat (25).

UNPACKING/DELIVERY

To unpack the machine carefully follow the instructions on the packing.

Upon delivery carefully check that the machine and its packing have not been damaged during transportation. In case of visible damages, keep the packing and have it checked by the carrier that delivered it. Call the carrier immediately to fill in a damage claim. Check that the machine is equipped with the following features:

- Technical documents:
 - Scrubber-dryer Operator's Manual
 - Electronic battery charger Manual (integral part of this manual)
 - Scrubber-dryer Spare Parts List
- No. 2 lamellar fuses
- No. 5 spacers for 6 V battery housing
- One 2 mm-wrench for socket screws

SAFETY

The following symbols indicate potentially dangerous situations. Always read this information carefully and take all necessary precautions to safeguard people and property.

The operator's cooperation is essential in order to prevent injury. No accident prevention program is effective without the total cooperation of the person responsible for the machine operation. Most of the accidents that may occur in a factory, while working or moving around, are caused by failure to comply with the simplest rules for exercising prudence. A careful and prudent operator is the best guarantee against accidents and is essential for successful completion of any prevention program.

SYMBOLS



DANGER!

It indicates a dangerous situation with risk of death for the operator.



WARNING!

It indicates a potential risk of injury for people or damage to objects.



CAUTION!

It indicates a caution or a remark related to important or useful functions. Pay careful attention to the paragraphs marked by this symbol.



NOTE

It indicates a remark related to important or useful functions.



CONSULTATION

It indicates the necessity to refer to the Operator's Manual before performing any procedure.

GENERAL INSTRUCTIONS

Specific warnings and cautions to inform about potential damages to people and machine are shown below.



DANGER!

- ***Before performing any maintenance, repair, cleaning or replacement procedure the battery connector must be disconnected and the key must be removed from the ignition switch.***
- ***This machine must be used by properly trained operators only. Children or disabled people cannot use this machine.***
- ***Keep the battery far from sparks, flames and incandescent material. During normal operation, explosive gases are released.***
- ***Do not wear jewelry when working near electrical components.***
- ***Do not work under the lifted machine without supporting it with safety stands.***
- ***Do not operate the machine near toxic, dangerous, flammable and/or explosive powders, liquids or vapors. This machine is not suitable for picking up hazardous materials.***
- ***Battery charging produces highly explosive hydrogen gas. Keep the tank assembly open during battery charging and perform this procedure in well-ventilated areas and away from open flames.***



WARNING!

- Carefully read all the instructions before performing any maintenance/repair procedure.
- Before using the battery charger, ensure that frequency and voltage values, indicated on the machine serial number plate, match the electrical mains voltage.
- To reduce the risk of fire, electric shock, or injury, do not leave the machine unattended when it is plugged in. Unplug the machine from the electrical mains when not in use and before servicing.
- To avoid electric shock, do not expose to rain. Store the machine indoors.
- Do not allow to be used as a toy. Close attention is necessary when used near children.
- Use only as shown in this Manual. Use only Clarke's recommended accessories.
- Do not use with damaged battery charger cable or plug. If the machine is not working as it should, has been damaged, left outdoors or dropped into water, return it to the Service Center.
- Do not pull or carry the machine by the battery charger cable and never use the battery charger cable as a handle. Do not close a door on the battery charger cable, or pull the battery charger cable around sharp edges or corners. Do not run the machine on the battery charger cable. Keep the battery charger cable away from heated surfaces.
- Take all necessary precautions to prevent hair, jewelry and loose clothes from being caught by the machine moving parts.
- Do not smoke while charging the batteries.
- Do not wash the machine with direct or pressurized water jets, or with corrosive substances.
- To avoid any unauthorized use of the machine, remove the ignition key.
- Do not leave the machine unattended without being sure that it cannot move independently.
- Do not use the machine on slopes with a gradient exceeding the specifications.
- Use only pads supplied with the machine and those specified in the Operator's Manual. Using other brushes or pads could reduce safety.
- Before using the machine, close all doors and/or covers.
- Do not use the machine in particularly dusty areas.
- While using this machine, take care not to cause damage to other people, especially children.
- Do not put any can containing fluids on the machine.
- The machine storage temperature must be between +32°F and +104°F (0°C and +40°C).
- The machine working temperature must be between +32°F and +104°F (0°C and +40°C).
- The humidity must be between 30% and 95%.
- Always protect the machine against the sun, rain and bad weather, both under operation and inactivity condition. Store the machine indoors, in a dry place. This machine must be used in dry conditions, it must not be used or kept outdoors in wet conditions.
- Do not use the machine as a means of transport.
- Do not allow the brush to operate while the machine is stationary to avoid damaging the floor.
- In case of fire, use a powder fire extinguisher, not a water one.
- Do not bump into shelves or scaffoldings, especially where there is a risk of falling objects.
- Do not tamper with the machine safety guards and follow the routine maintenance instructions scrupulously.
- To move the machine by hand it is necessary to disengage the electromagnetic brake. After moving the machine by hand, the electromagnetic brake must be engaged. Do not use the machine when the electromagnetic brake is disengaged.
- Do not remove or modify the plates affixed to the machine.
- In case of machine malfunctions, ensure that these are not caused by a lack of maintenance. Otherwise, request assistance from the authorized personnel or from an authorized Service Center.
- If parts must be replaced, require ORIGINAL spare parts from an authorized Dealer or Retailer.
- To ensure machine proper and safe operation, the scheduled maintenance shown in the relevant chapter of this Manual must be performed by the authorized personnel or by an authorized Service Center.
- Do not allow any object to enter into the openings. Do not use the machine if the openings are clogged. Always keep the openings free from dust, hairs and any other foreign material which could reduce the air flow.
- This machine cannot be used on roads or public streets.
- Pay attention during the machine transfers when temperature is below freezing point. The water in the recovery tank or in the hoses could freeze and seriously damage the machine.
- When lead (WET) batteries are installed on the machine, do not tilt the machine more than 30° from the horizontal plane to prevent the highly corrosive acid from leaking out of the batteries. If the machine must be tilted to perform any maintenance procedure, remove the batteries.

SYMBOLS SHOWN ON THE MACHINE

**WARNING!**

Carefully read all instructions before performing any procedure on the machine.

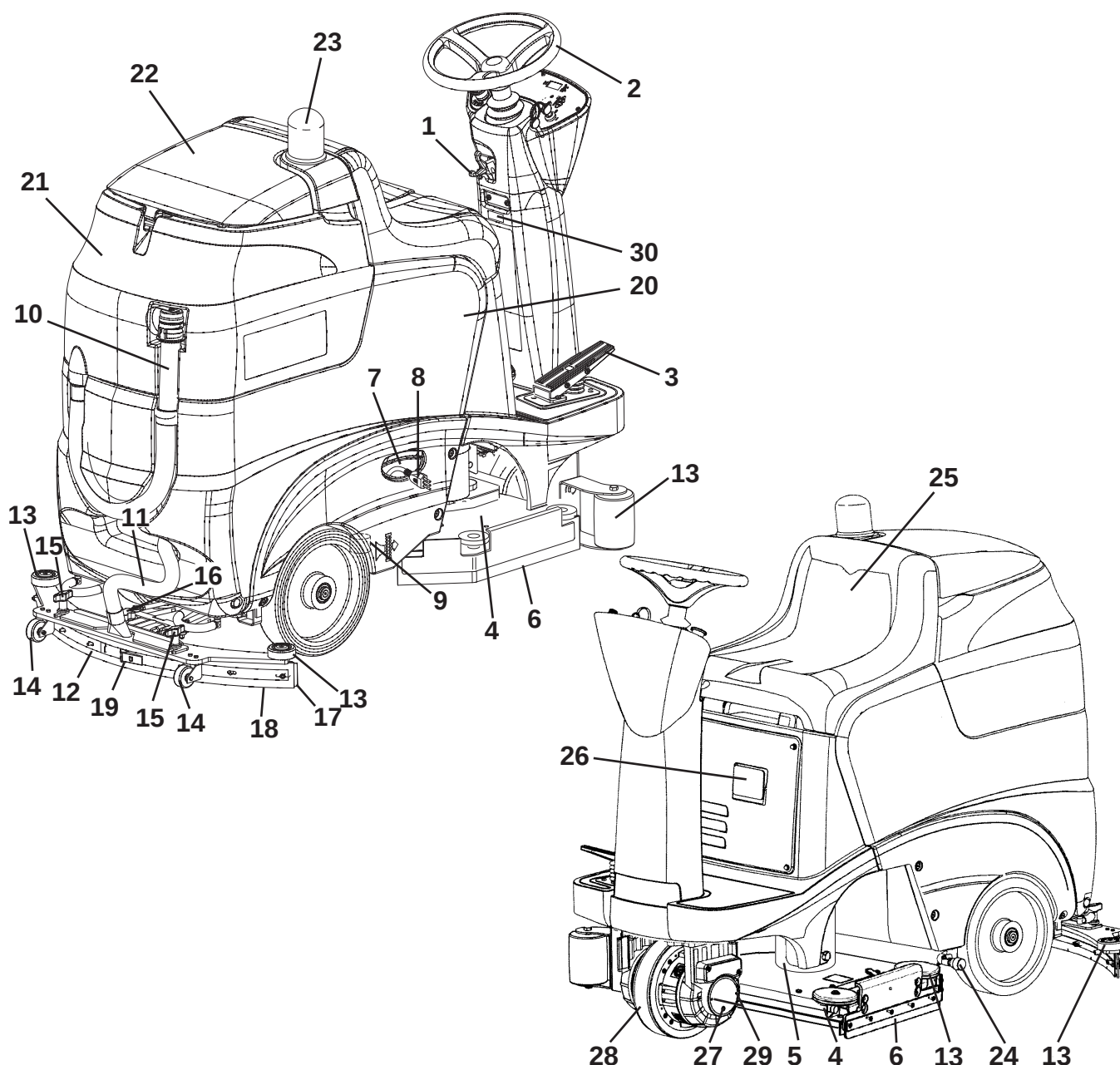
**WARNING!**

Do not wash the machine with direct or pressurized water jets.

MACHINE DESCRIPTION

MACHINE STRUCTURE

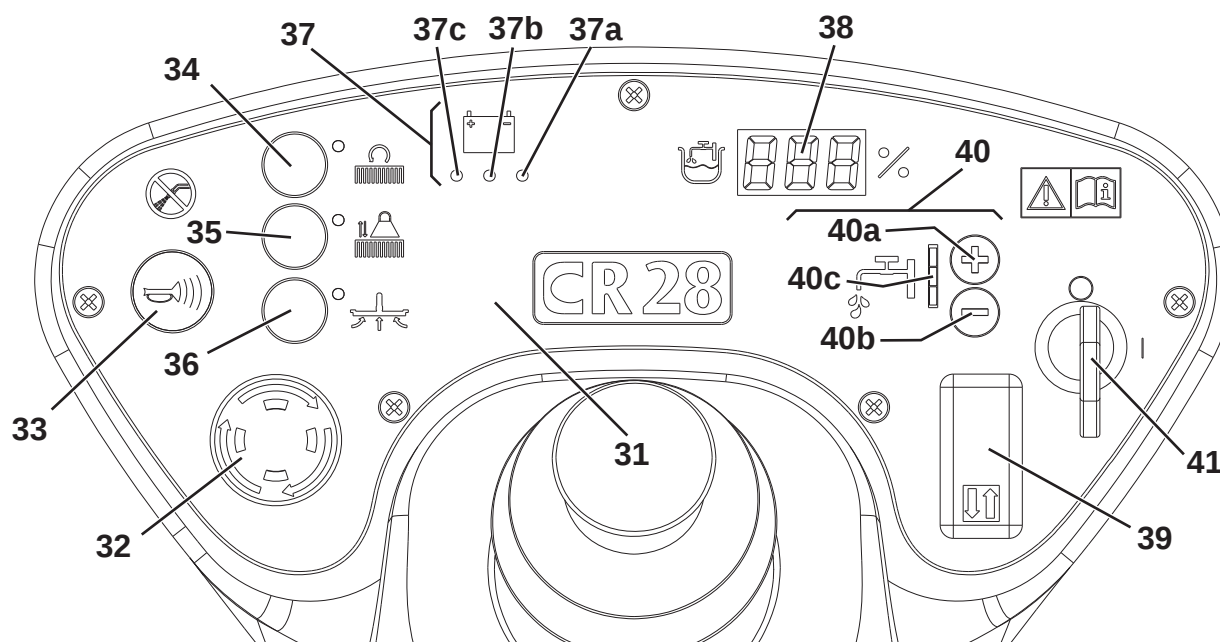
- | | |
|---|---|
| 1. Steering wheel inclination control lever | 19. Squeegee rear blade fastening hook |
| 2. Steering wheel | 20. Solution tank |
| 3. Drive pedal | 21. Recovery tank |
| 4. BOOST® deck | 22. Recovery tank cover |
| 5. BOOST® deck motor | 23. Flashing light (optional) |
| 6. Side skirts | 24. Solution drain hose |
| 7. Battery charger cable housing | 25. Seat |
| 8. Battery charger cable | 26. Battery charger |
| 9. Solution filter | 27. Electromagnetic brake |
| 10. Recovery water drain hose | 28. Front steering, driving and braking wheel |
| 11. Squeegee vacuum hose | 29. Electromagnetic brake unlocking screws |
| 12. Squeegee | 30. Serial number plate/technical data |
| 13. Bumper wheels | |
| 14. Squeegee support wheels | |
| 15. Squeegee mounting handwheels | |
| 16. Squeegee balance adjusting handwheel | |
| 17. Front squeegee blade | |
| 18. Rear squeegee blade | |



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CONTROL PANEL

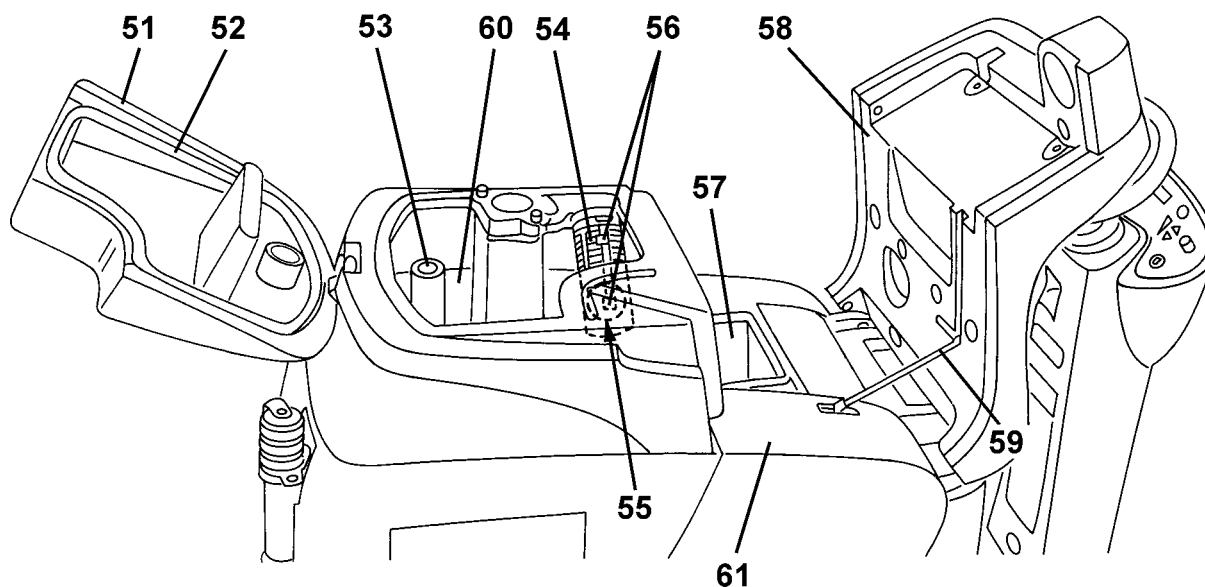
- 31. Control panel
- 32. Emergency push-button
- 33. Horn
- 34. Scrub and vacuum activation button
- 35. Extra pressure button
- 36. Squeegee lifting/lowering and vacuum system on/off button
- 37. Battery charge indicator
- 37a. Charged battery warning light (green)
- 37b. Semi-discharged battery warning light (yellow)
- 37c. Discharged battery warning light (red)
- 38. Hour counter and solution level display:
 - When the machine is started, it displays for a few seconds the number of working hours which have been performed.
 - While using the machine, it displays the solution level in the tank (measured in percentage terms, compared with the full tank).
 - When the level is below 20%, the display starts blinking.
 - The display could indicate "000 %" even if the tank is not completely empty, allowing to complete the cleaning procedures; in any case, please check the actual solution flow to the brushes.
- 39. Forward/reverse gear switch
- 40. Solution flow adjustment
- 40a. Flow increase button
- 40b. Flow decrease button
- 40c. Flow LEDs:
 - 0 LEDs on - The solution flow is closed.
 - 1 LED on - 0.29 gal/min (1.1 liters/min).
 - 2 LEDs on - 0.5 gal/min (1.9 liters/min).
 - 3 LEDs on - 0.74 gal/min (2.8 liters/min).
- 41. Ignition key



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VIEW UNDER TANK COVERS

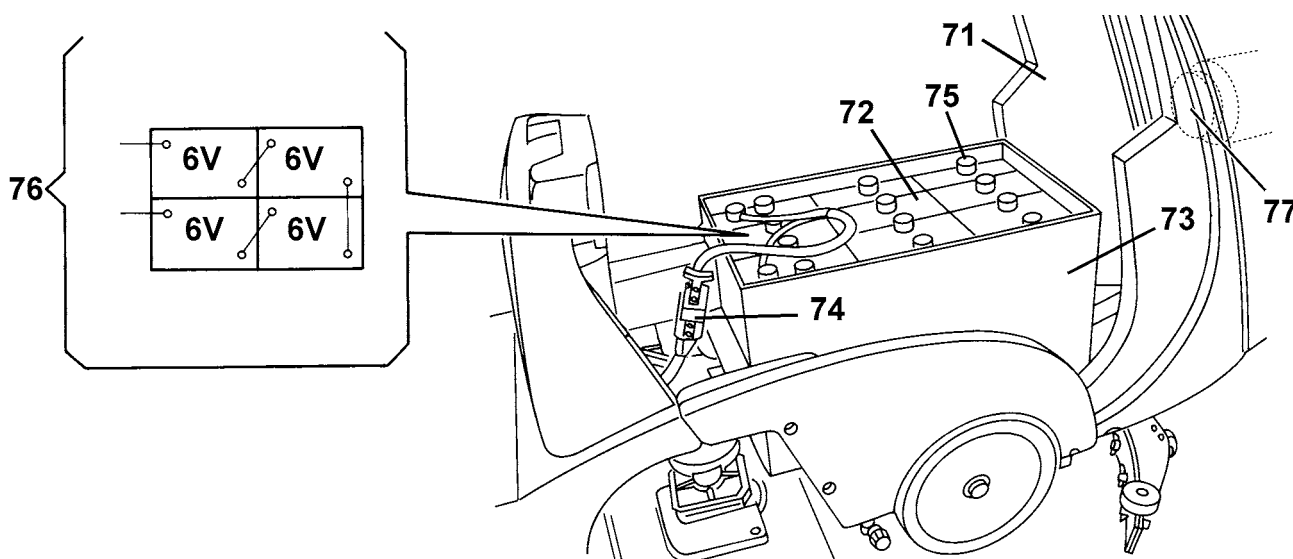
- | | |
|---|-----------------------|
| 51. Recovery tank cover | 59. Cover support rod |
| 52. Recovery tank cover gasket | 60. Recovery tank |
| 53. Recovery water vacuum duct | 61. Solution tank |
| 54. Vacuum screen with automatic shut-off float | |
| 55. Float | |
| 56. Screen fasteners | |
| 57. Solution inlet opening | |
| 58. Solution tank cover/driver's seat | |



S311219A

VIEW UNDER TANK ASSEMBLY

- | | |
|-----------------------|--|
| 71. Tank assembly | 75. Battery caps |
| 72. Batteries | 76. Battery connection diagrams |
| 73. Battery case | 77. Vacuum system motor sound-deadening filter |
| 74. Battery connector | |



S311220A

ACCESSORIES/OPTIONS

In addition to the standard components, the machine can be equipped with the following accessories/options, according to the machine specific use:

- AGM batteries
- Brushes of different materials
- Flashing light
- Hose filling
- Silencer reverse alarm

For further information concerning the above-mentioned optional accessories, contact an authorized Retailer.

TECHNICAL DATA

Description	CR 28 BOOST®
Cleaning width	28 in (711 mm)
Squeegee width	34 in (864 mm)
Solution tank capacity	19.8 gal (75 liters)
Min/max solution flow	0/0.74 gal/min (0/2.8 liters/min)
Recovery tank capacity	19.8 gal (75 liters)
Rear wheel	11.8 in (300 mm)
Wheel specific pressure on the floor	Front 116 psi (0.8 N/mm ²) - Rear 145 psi (1.0 N/mm ²)
Front steering, driving and braking wheel diameter	9.8 in (250 mm)
Vacuum system motor power	0.67 hp (500 W)
Drive system motor power	0.80 hp (600 W)
Drive speed (variable)	From 0 to 3.7 mph (from 0 to 6 km/h)
Gradeability	16% (9°)
Sound pressure level at workstation (ISO 11201, ISO 4871) (LpA)	60.8 dB(A) ± 3dB(A)
Machine sound pressure level (ISO 3744, ISO 4871) (LwA)	82.4 dB(A)
Vibration level at the operator's arms (*)	9 - 29.5 in/s ² (0.23 – 0.75 m/s ²)
Vibration level at the operator's body (*)	< 47.2 in/s ² (< 1.2 m/s ²)
Battery compartment size	24 V battery box: 23.6 x 15.3 x 11.8 in (600 x 390 x 300 mm)
	Four 6 V batteries: Wet and maintenance free available
Vacuum system capacity	70.9 in (1,800 mmH ₂ O)
Machine height	49.2 in (1,250 mm)
Machine maximum length	57.1 in (1,450 mm)
Machine width without squeegee	26 in (658 mm)
Brush/pad width	28 in (711 mm)
Weight without batteries and with empty tanks	308 lbs (140 kg)
Maximum weight with batteries and full tanks	848.7/1036 lbs (385/470 Kg)
Brush/pad motor power	0.75 hp (560 W)
Brush/pad-holder speed	2200 rpm
Brush/pad-holder pressure with extra-pressure function turned off	66 lbs (30 Kg)
Brush/pad-holder pressure with extra-pressure function turned on	110 lbs (50 Kg)

(*) Under normal working conditions, on a level asphalt surface.

WIRING DIAGRAM

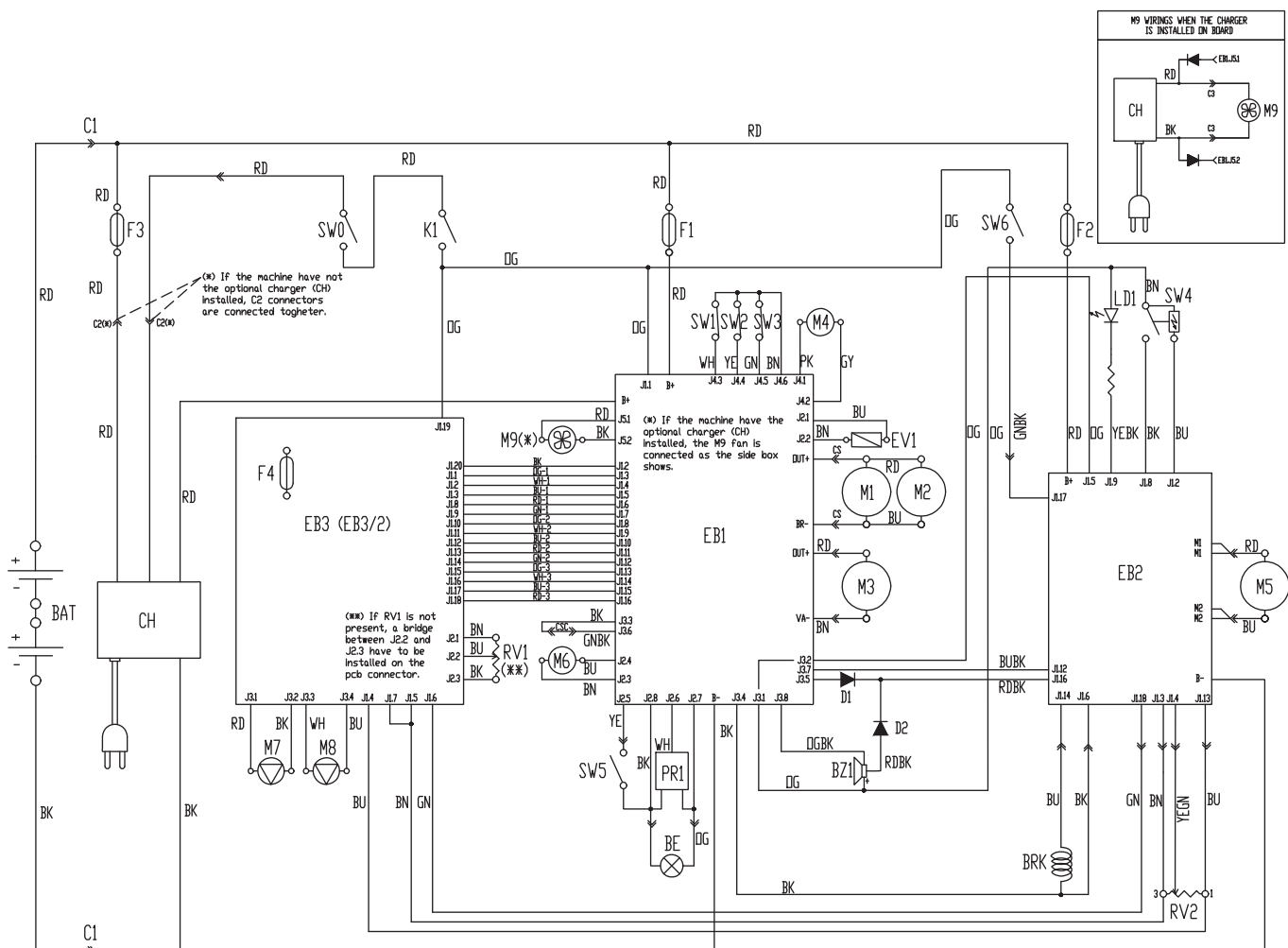
Key

BAT	24 V batteries
BE	Flashing light
BRK	Electromagnetic brake
BZ1	Reverse gear warning buzzer/horn
C1	Battery connector
C2	Battery charger auxiliary connector
C3	Battery charger external vent auxiliary connector
CH	Battery charger
CS	BOOST® deck connector
CSC	Deck sub-connector
EB1	Function electronic board
EB2	Drive system electronic board
EB3	Electronic board (under control panel)
EB3/2	Electronic board (under control panel) (optional)
EV1	Solenoid valve
F1	Function electronic board fuse
F2	Drive system electronic board fuse
F3	Low power circuit fuse
F4	Pump fuse (optional)
K1	Ignition switch
LD1	Drive system electronic board diagnostic LED
M1	Left brush motor
M2	Right brush motor (if equipped)
M3	Vacuum system motor
M4	BOOST® deck actuator
M5	Drive system motor

M6	Squeegee actuator
M7	Washing water pump (optional)
M8	Detergent pump (optional)
M9	Cooling fan
PR1	Washing water level sensor
RV1	Working speed potentiometer (if equipped)
RV2	Speed potentiometer (pedal)
SW0	Emergency push-button
SW1	Actuator position 0 micro-switch
SW2	Actuator position 1 micro-switch
SW3	Actuator position 2 micro-switch
SW4	Steering sensor
SW5	Driver's seat microswitch
SW6	Reverse gear switch

Color code

BK	Black
BU	Blue
BN	Brown
GN	Green
GY	Gray
OG	Orange
PK	Pink
RD	Red
VT	Violet
WH	White
YE	Yellow



USE



WARNING!

On some points of the machine there are some adhesive plates indicating:

- **DANGER**
- **WARNING**
- **CAUTION**
- **CONSULTATION**

While reading this Manual, the operator must pay particular attention to the symbols shown on the identification plates. Do not cover identification plates for any reason and immediately replace them if damaged.

BATTERY CHECK/SETTING ON A NEW MACHINE



WARNING!

The electric components of this machine can be seriously damaged if batteries are either installed or connected improperly. The batteries must be installed by qualified personnel only. Set the function electronic board and the battery charger according to the type of batteries installed (WET or GEL).

Check the batteries for damage before installation.

Disconnect the battery connector and the battery charger plug.

Handle the batteries with great care.

Install the battery terminal protection caps supplied with the machine.

The machine requires one of the followings:

- 4 6 V batteries, 250 Ah (WET ACID)
- 4 6 V batteries, 255 Ah (MAINTENANCE FREE AGM)

The machine can be supplied in one of the following modes:

Batteries (WET or GEL) already installed and charged

1. Open the covers (51 and 58) and check that the tanks (60 and 61) are empty, otherwise drain them through the drain hose (10) and the tap (24).
2. Close the covers (51 and 58).
3. Carefully lift the tank assembly (71).
4. Check that the batteries are connected to the machine with the connector (74).
5. Carefully lower the tank assembly (71).
6. Insert the ignition key (41) and turn it to "I". If the green warning light (37a) turns on, the batteries are charged. If the yellow (37b) or red warning light (37c) turns on, the batteries must be charged (see the procedure in Maintenance chapter).

BATTERY INSTALLATION AND BATTERY TYPE SETTING (WET OR GEL)

According to the type of batteries (WET or GEL), set the machine and electronic board of the battery charger as follows:

Machine setting

1. Turn the ignition key (41) to "I" and in the very first seconds of machine operation pay attention to the following:
 - If the green warning light (37a) is flashing, the machine is set to GEL (compatible with AGM).
 - If the red warning light (37c) is flashing, the machine is set to WET.
2. To change the settings, proceed as follows.
3. Turn off the machine and turn the ignition key (41) to "0".
4. Press and hold the switch (36), then turn the ignition key (41) to "I".
5. Release the switch (36) at least 5 seconds after turning the machine on.
6. Press again the switch (36) for a few seconds and check that the warning light of the required setting is flashing.

Battery charger setting

7. Remove the screws (A, Fig. 1) and the panel (B).
8. Turn the selector (C) to WET or GEL according to the type of batteries installed.
9. Install the panel (B), then tighten the screws (A).

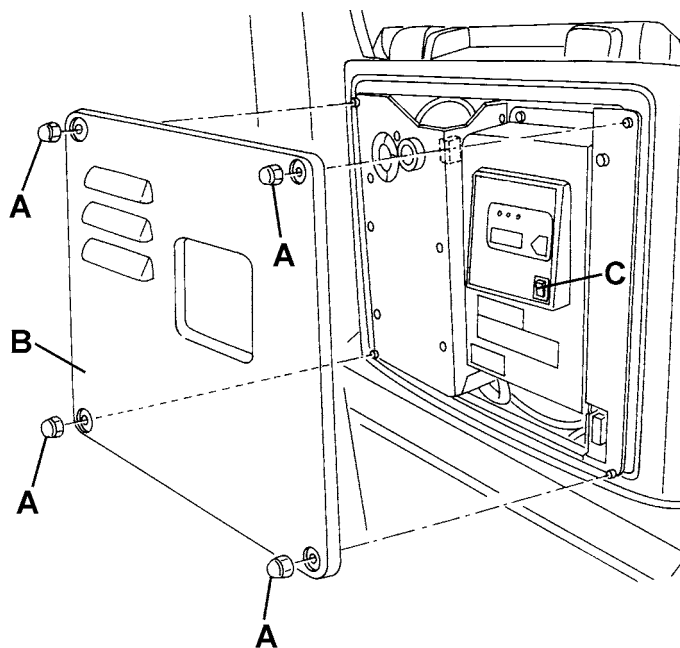


Figure 1

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Battery installation

10. Open the covers (51 and 58) and check that the tanks (60 and 61) are empty, otherwise drain them through the drain hose (10) and the tap (24).
11. Close the covers (51 and 58).
12. Carefully lift the tank assembly (71).
13. Install the batteries and connect them according to the diagram (76).

Battery charging

14. Charge the batteries (see the procedure in Maintenance chapter).

BEFORE START-UP



WARNING!

At every machine start-up, check that, between the deck (4 or 5) and the machine or between the squeegee (12) and the machine, there is no foreign material which may prevent the deck and the squeegee from lifting. This check is necessary because, if the machine has been turned off without lifting the BOOST® deck and the squeegee, when turned on again, the deck and the squeegee lift automatically.

Brush installation/removal

1. The machine can be equipped with different brushes (88) according to the type of floor to be cleaned.
2. For the installation/removal, proceed as follows.
Insert the ignition key (41) and turn it to "I".



WARNING!

Before pressing the switch (34), always check that, between the deck (4) and the machine, there is no foreign material which may prevent the deck from lifting.

3. Lift the deck by pressing the switch (34).
4. Turn the ignition key (41) to "O" and remove it.
5. Install the brush (88) so that it engages the BOOST® deck.
6. To remove the brush, perform steps 2 to 5 in the reverse order.

Brushes and Pads available

Pads		
Size	Description	Part No.
14 x 28	Red (5 Pack)	997001
14 x 28	Black (5 Pack)	997000
14 x 28	White (5 Pack)	997002
14 x 28	Blue (5 Pack)	997006
14 x 28	Maroon (10 Pack)	997018

Brushes		
Size	Description	Part No.
14 x 28	Poly Brush	30752A
14 x 28	Nylon Brush	30751A
14 x 28	Grit Brush	30753A

Brush application guide

Models	POLYPROPYLENE	NYLON	CLEAN GRIT
General cleaning:			
Concrete			
Terrazzo floor			
Ceramic tiles/quarrestones			
Marble			
Vinyl tiles			
Rubber tiles			

Squeegee installation

15. Install the squeegee (12) and fasten it with the handwheels (15), then connect the suction hose (11) to the squeegee.
16. With the handwheel (16), adjust the squeegee so that its rear blade (18) touches the floor along all its length and that the front blade (17) is slightly detached from the floor.

Solution tank filling

17. Open the cover (58).
18. Fill the solution tank (61) with a solution suitable for the work to be performed.
Do not fill the solution tank completely, leave few inches from the edge.
Always follow the dilution instructions on the label of the chemical product used to prepare the solution.
The solution temperature must not exceed +104°F (+40°C).



WARNING!

Use only low-foam and non-flammable detergents, intended for automatic scrubber applications.

Operator's position adjustment

21. Using the lever (1), adjust the inclination of the steering wheel (2) to reach a comfortable position.

MACHINE START AND STOP

Starting the machine

1. Prepare the machine as shown in the previous paragraph.
2. Turn the ignition key (41) to "I", without pressing the drive pedal (3). Check if the green warning light (37a) turns on. If the yellow (37b) or red warning light (37c) turns on, turn the ignition key back to "0" and charge the batteries (see the procedure in Maintenance chapter).
3. Drive the machine to the working area, by keeping the hands on the steering wheel and by pressing the pedal (3). The drive speed can be adjusted from zero to maximum speed according to the pressure on the pedal (3).
4. The forward/reverse gear can be selected with the switch (39) on the right side of the dashboard.



NOTE

The driver's seat (25) is equipped with a safety sensor, which allows the machine to be moved with the pedal (3) only when the operator is on the driver's seat.



NOTE

*The machine is equipped with an anti-tilting safety system that reduces the speed when turning, irrespectively of the pressure on the pedal.
The reduction of speed when turning is not a malfunction but a characteristic that improves the machine stability in every condition.*

5. Lower the BOOST® deck and the squeegee by pressing the switch (34).
6. Press the solution flow adjusting switches (40) according to the type of cleaning to be performed.
7. Start scrubbing, by turning the steering wheel (2) and by moving the machine forward by pressing the pedal (3).

Stopping the machine

8. Release the pedal (3).
9. It is not necessary to lock the machine during stopping or parking, because the electromagnetic brake (27) activates automatically when the drive pedal is not pressed.
10. Lift the BOOST® deck and the squeegee by pressing the switch (34).

MACHINE OPERATION (SCRUBBING/DRYING)

1. Start the machine as shown in the previous paragraph.
2. If necessary, adjust the solution flow sent to the brushes by pressing the switches (40).



NOTE

For correct scrubbing/drying of floors at the sides of the walls, Clarke suggests to go near the walls with the right side of the machine as shown in figure 2.

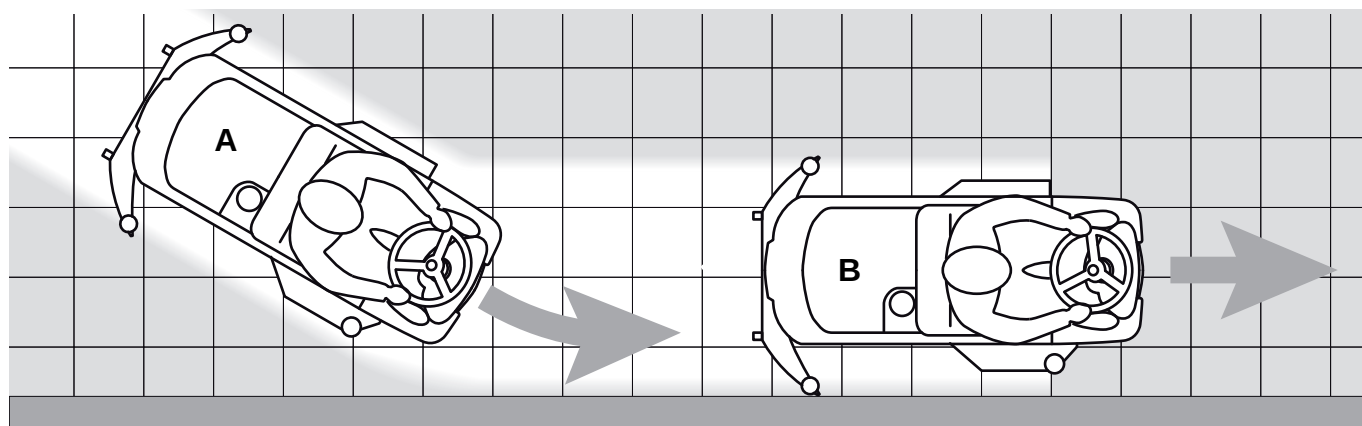


Figure 2

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Squeegee adjustment

3. If necessary, stop the machine and adjust the squeegee with the handwheel (16) so that the rear blade touches the floor along all its length.



WARNING!

To avoid any damage to the floor surface, turn off the BOOST® deck when the machine stops in one place, especially when the extra pressure function is on.

Working with the BOOST® deck extra pressure function turned on

4. If the dirt on the floor proves to be particularly difficult to clean, it is possible to work with an extra pressure of the BOOST® deck on the floor by pressing the switch (35).
 5. To return to normal pressure, press the switch (35) again.
- The switch (35) is enabled only when the deck (4) is lowered and the switch warning light (34) is on.



CAUTION!

In case of brush motor overload due to BOOST® deck excessive pressure or too aggressive floors/brushes, a safety system stops the BOOST® deck after about one minute of continuous overload.

The overload is shown by the three warning lights (37a, 37b, 37c) flashing simultaneously.

If the overload takes place when cleaning with the extra pressure function activated, the system automatically reduces the pressure on the brush by deactivating the extra pressure function. If the overload persists, the BOOST® deck stops.

To start again after the BOOST® deck stop due to overload, stop the machine by turning the ignition key (41) to "0". Turn on the machine by turning the ignition key (80) to "I".

Battery discharge during operation

6. Until the green warning light (37a) stays on, the batteries allow the machine to work normally. When the green warning light (37a) turns off and first the yellow warning light (37b) and then the red warning light (37c) turn on, the batteries must be charged.
 - When the yellow warning light (37b) turns on, the machine residual autonomy will last for a few minutes (depending on battery type).
 - When the red warning light (37c) turns on the machine autonomy is over: after a few seconds the BOOST® deck automatically stops and lifts. Only the machine vacuum and drive systems still operate, just to dry the wet floor and move the machine to the charging area.



CAUTION!

Do not use the machine with discharged batteries, to avoid damaging the batteries and reducing the battery life.



NOTE

In case the machine drive system cannot be used to move the machine, see Pushing/Towing The Machine paragraph.

TANK EMPTYING

An automatic float shut-off system (54) stops the vacuum system when the recovery tank (60) is full.

The vacuum system deactivation is signaled by a sudden increase in the vacuum system motor noise frequency, also the floor has not dried.



WARNING!

If the vacuum system turns off accidentally (for example, when the float is activated because of a sudden machine movement), to resume the operation: turn off the vacuum system by pressing the switch (36), then open the cover (22) and check that the float inside the screen (55) has gone down to the water level. Then close the cover (22) and turn on the vacuum system by pressing the switch (36).

When the recovery tank (60) is full, empty it as shown below.

Recovery tank emptying

1. Stop the machine by releasing the pedal (3).
2. Lift the BOOST® deck and the squeegee by pressing the switch (34).
3. Drive the machine to the appointed disposal area.
4. Empty the recovery tank with the hose (10). Then, rinse the tank with clean water.

Solution Tank Emptying

5. Perform steps 1 to 3.
6. Empty the solution tank by means of the tap (24). Then, rinse the tank with clean water.

AFTER USING THE MACHINE

After working, before leaving the machine:

1. Remove the brush as shown in the relevant paragraph.
2. Empty the tanks (60 and 61) as shown in the previous paragraph.
3. Perform the daily maintenance procedures (see the Maintenance chapter).
4. Store the machine in a clean and dry place, with the brush and the squeegee lifted or removed.

PUSHING/TOWING THE MACHINE

To push/tow the machine easily when the drive system cannot be used, disengage the electromagnetic brake (27) by fully tightening the screws (29) (turn them clockwise) with the supplied wrench.

When pushing/towing procedure is over, loosen the screws (29) by 3 turns approximately, to engage the electromagnetic brake (27).



WARNING!

If the screws (29) are not loosened as shown, the electromagnetic brake is deactivated.



WARNING!

Do not turn on the machine if the electromagnetic brake unlocking screws (29) are tightened (electromagnetic brake deactivated).

For safety purposes, it is advisable to tighten the screws (29) only for the time necessary to move the machine by hand.

MACHINE LONG INACTIVITY

1. If the machine is not going to be used for more than 30 days, proceed as follows:
2. Perform the procedures shown in After Using the Machine paragraph.
3. Before disconnecting the battery red connector (74) perform the following procedures:
 - Open the covers (51 and 58) and check that the tanks (60 and 61) are empty, otherwise drain them through the drain hose (10) and the tap (24).
 - Close the covers (51 and 58).
 - Carefully lift the tank assembly (71).

FIRST PERIOD OF USE

After the first 8 hours, check the machine fastening and connecting parts for proper tightening. Check the visible parts for integrity and leakage.

MAINTENANCE

The lifespan of the machine and its maximum operating safety are ensured by correct and regular maintenance.

The following chart provides the scheduled maintenance. The intervals shown may vary according to particular working conditions, which are to be defined by the person in charge of the maintenance.



WARNING!

The procedures must be performed with the machine off and the batteries disconnected.

Moreover, carefully read all the instructions in the Safety paragraph.

All scheduled or extraordinary maintenance procedures must be performed by qualified personnel, or by an authorized Service Center.

This Manual describes only the easiest and most common maintenance procedures.



NOTE

For other maintenance procedures contained in the Scheduled Maintenance Table or for extraordinary maintenance procedures see the specific Service Manual that can be consulted at any Service Center.

SCHEDULED MAINTENANCE TABLE

Procedure	Daily, after using the machine	Weekly	Every six months	Yearly
Squeegee cleaning				
Brush cleaning				
Cleaning of Tank and Vacuum screen and Float				
Battery charging				
Squeegee blade check and replacement				
Side skirt check				
Solution filter cleaning				
Battery (WET) fluid level check				
Screw and nut tightening check			(1)	
Squeegee cable sliding shoe lubrication			(2)	
Electromagnetic brake efficiency check			(2)	
BOOST® deck motor carbon brush check or replacement				(2)
Vacuum system motor carbon brush check or replacement				(2)
Drive system motor carbon brush check or replacement				(2)

(1) And after the first 8 working hours.

(2) This maintenance procedure must be performed by Clarke authorized Service Center.

MACHINE WORKING HOUR CHECK

1. Insert the ignition key (41) and turn it to "I".
2. In the first 5 seconds of machine operation, the display (38) shows the total number of working hours (scrubbing/drying) performed by the machine.
Turn the ignition key (41) to "0".

SQUEEGEE CLEANING



NOTE

The squeegee must be clean and its blades must be in good conditions in order to get a good drying.



CAUTION!

It is advisable to use protective gloves when cleaning the squeegee because there may be sharp debris.

1. Drive the machine on a level floor.
2. Insert the ignition key (41) and turn it to "I".
3. Lower the squeegee (12) by pressing the switch (36).
4. Turn the ignition key (41) to "0".
5. Disconnect the vacuum hose (11) from the squeegee.
6. Loosen the handwheels (15) and remove the squeegee (12).
7. Wash and clean the squeegee. In particular, clean the compartments (A, Fig. 3) and the hole (B) from dirt and debris. Check the front blade (C) and the rear blade (D) for integrity, cuts and tears; otherwise replace them.
8. Reassemble in the reverse order of disassembly.

SQUEEGEE BLADE CHECK AND REPLACEMENT

1. Clean the squeegee as shown in the relevant paragraph.
2. Check that the edges (E and N, Fig. 3) of the front (17) and rear blades (18) lay down on the same level, along all their length; otherwise adjust their height according to the following procedure:
 - Disengage the fastener (F) and loosen the wing nuts (G) to adjust the rear blade (D); then tighten the wing nuts and engage the fastener.
 - Loosen the wing nuts (H) to adjust the front blade (C); then tighten the nuts.
3. Check the front blade (C) and rear blade (D) for integrity, cuts and tears; otherwise replace them according to the following procedure. Check that the front corner (I) of the rear blade is not worn; otherwise, overturn the blade to replace the worn corner with an integral one. If the other corners are worn too, replace the blade as shown below:
 - Disengage the fastener (F), remove the wing nut (G) and the retaining strip (L), then replace (or overturn) the rear blade (D). Install the blade in the reverse order of removal.
 - Remove the wing nuts (H) and the retaining strip (M), then replace the front blade (C). Install the blade in the reverse order of removal.

After the blade replacement (or overturning), adjust the height as shown in the previous step.

4. Install the squeegee (12) and screw down the handwheels (15).
5. Connect the vacuum hose (11) to the squeegee (12).
6. If necessary, adjust the squeegee balance adjusting handwheel (16).

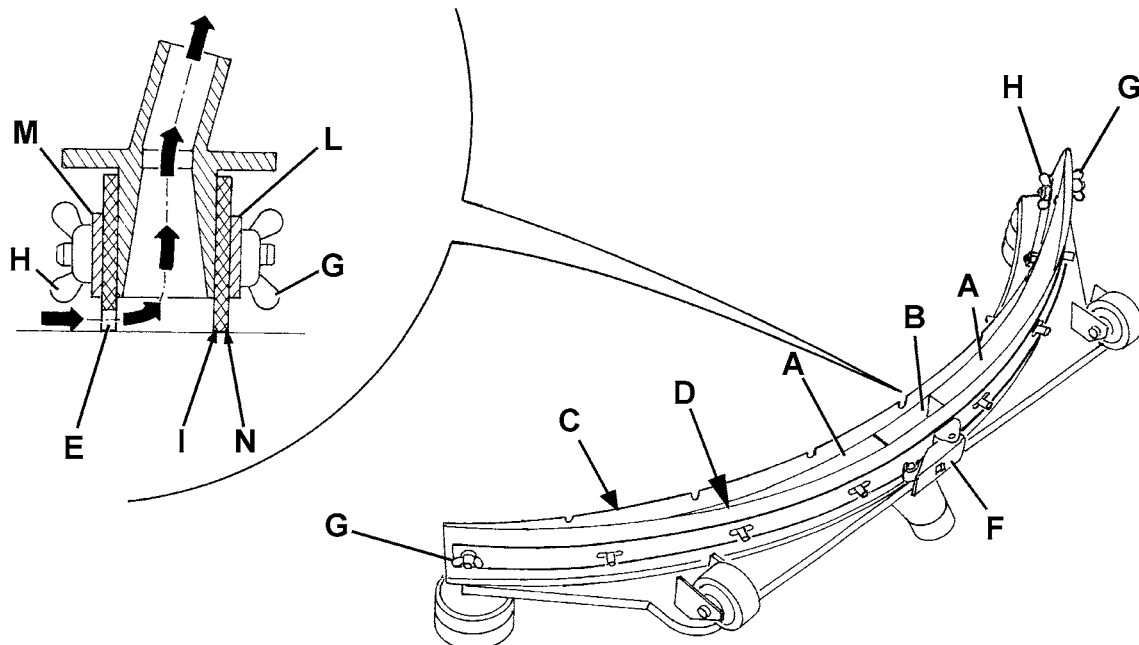


Figure 3

S311216A

BRUSH CLEANING



CAUTION!

It is advisable to use protective gloves when cleaning the brush because there may be cutting debris.

1. Remove the brush as shown in Use chapter.
2. Clean and wash the brush with water and detergent.
3. Check the brush for integrity and replace it if necessary.

CLEANING OF TANK AND VACUUM SCREEN WITH FLOAT

1. Drive the machine to the appointed disposal area.
2. Turn the ignition key (41) to "0".
3. Open the covers (51 and 58).
4. Clean and wash with clean water the covers (51 and 58), the tanks (60 and 61) and the vacuum screen (54) with automatic shut-off float.
Drain the water in the tanks through the hose (10) and the tap (24).
5. If necessary, disengage the fasteners (A, Fig. 4) and open the screen (B); recover the float (C), clean all the components and then reinstall them.
6. Check the tank cover gasket (D) for integrity.



NOTE

The gasket (D) creates vacuum in the tank that is necessary for vacuuming the recovery water.

If necessary replace the gasket (D) after removing it from its housing (E). When assembling the new gasket, install the joint (F) in the rear central area, as shown in the figure.

7. Check the bearing surface (D) of gasket (G) for integrity and sealing capabilities.
8. Close the covers (51 and 58).

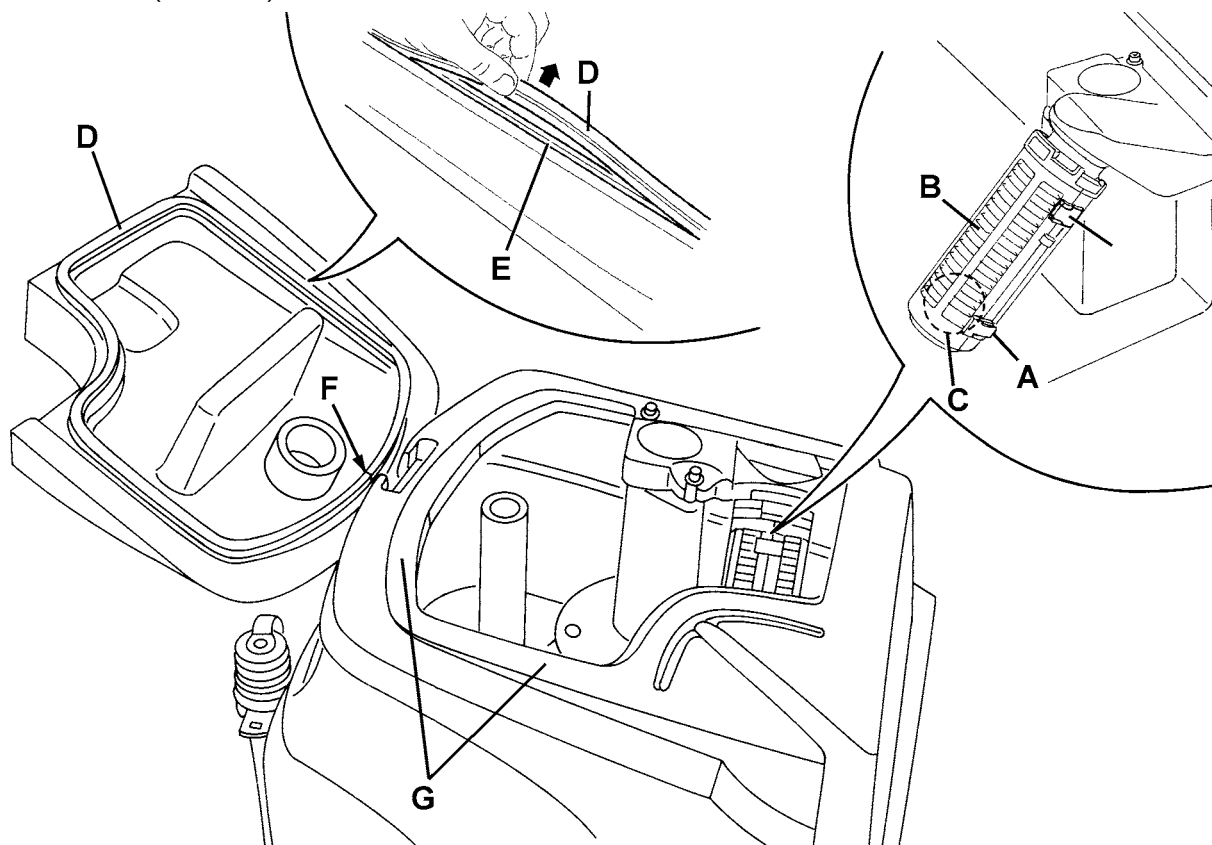


Figure 4

S311217A

SIDE SKIRT CHECK AND REPLACEMENT

Check

1. Drive the machine on a level floor.
2. Turn the ignition key (41) to "0".
3. On both sides of the machine, lift and remove the side skirt assembly (A) from the holders (B).
4. Wash and clean the side skirts.
5. Check that the side skirt lower edge (C):
 - Lays down on the same level, along all its length
 - Is integral and free from cuts and lacerations
 - Has the inner corner that is not worn
 Otherwise replace the skirt as shown below.

Replacement

6. Remove the screws (D), then remove the retaining strip (E).
7. Remove the skirt blade (F) and replace it.

Assembly

8. Assemble the blades (F) and the skirt assembly (A) in the reverse order of removal.

Adjustment

9. Lower Boost head and turn off the ignition key.
10. Release the clamp (G) and press down on the assembly so the inner blade contacts the floor.
11. While holding the inner blade against the floor, return the clamp (G) to the locked position.

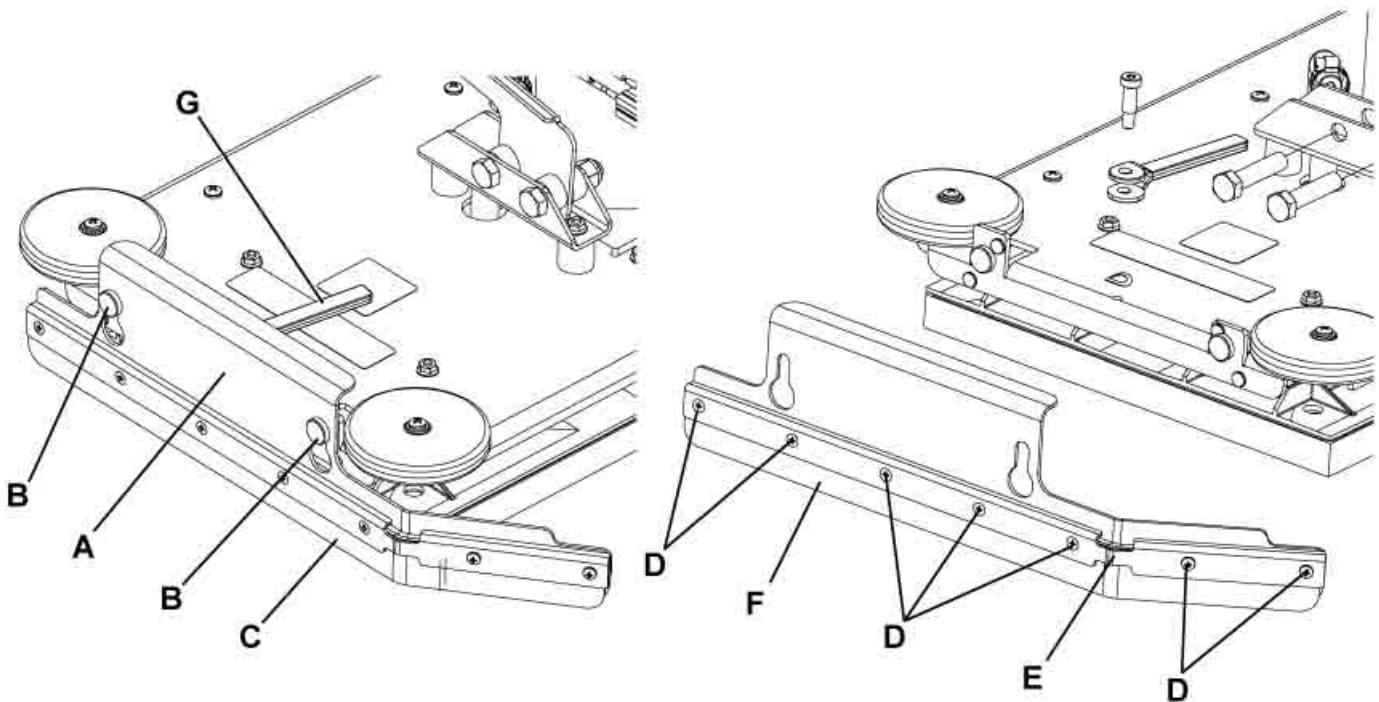


Figure 5

S311214A

VACUUM SYSTEM MOTOR FILTER CLEANING

1. Drive the machine to the appointed disposal area and drain the water from the recovery tank (60) with the hose (10).
2. Drain the solution from the tank (61) with the tap (24).
3. Drive the machine on a level ground.
4. Turn the ignition key (42) to "0".
5. Disconnect the vacuum hose (11) from the squeegee (12).
6. Fully lift the tank assembly (71) with care.
7. Remove the vacuum system motor filter (77) and clean it with water and compressed air.
8. Install the filter.
9. Fully lower the tank assembly (71) with care.

SOLUTION FILTER CLEANING

1. Drive the machine on a level floor.
2. Turn the ignition key (41) to "0".
3. Close the solution valve (E, Fig. 6) under the machine, behind the right rear wheel. The valve (E) is closed when it is on the position (F) and it is open when it is on the position (G).
4. Remove the transparent cover (A), then remove the filter strainer (B) under the machine in front of the right rear wheel. Clean and reassemble the components on the support (C).



NOTE

The filter strainer (B) must be correctly positioned on the housing (D) of the support (C).

5. Open the valve (E).

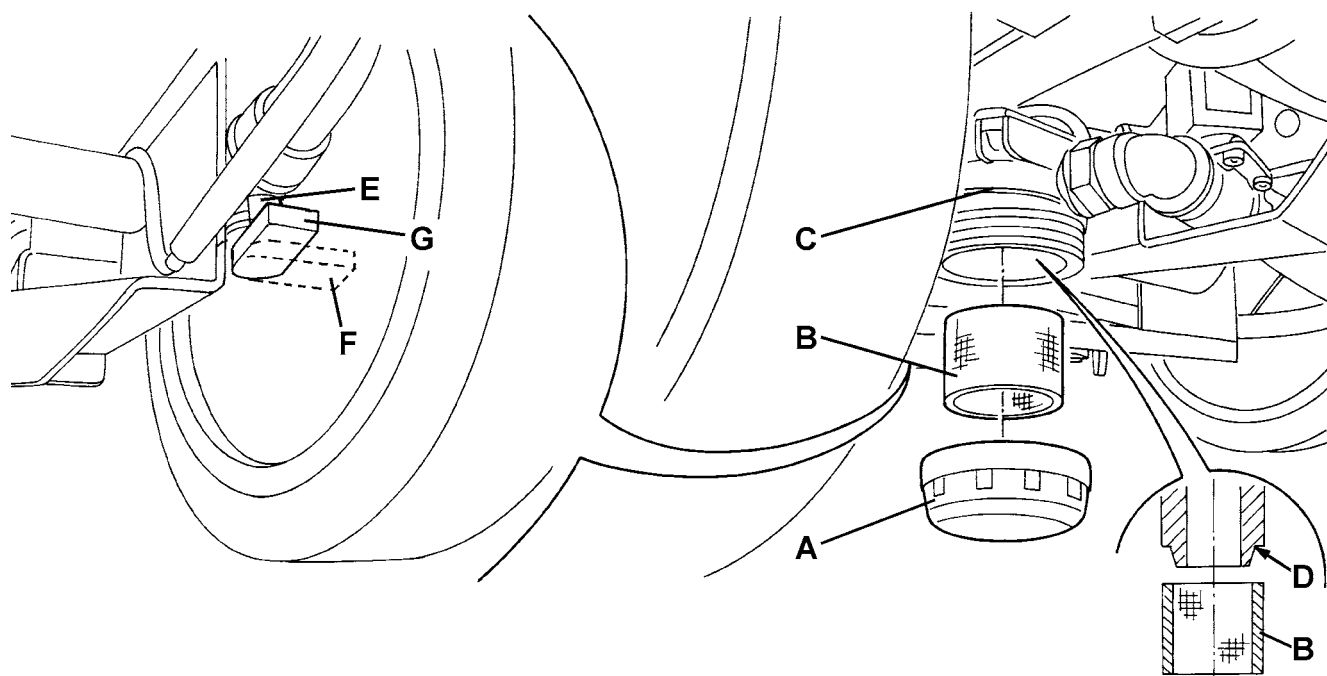


Figure 6

S311214A

BATTERY CHARGING



NOTE

Charge the batteries when the yellow (37b) or red warning light (37c) turns on, or when finishing cleaning.



CAUTION!

Keeping the batteries charged make them last longer.



CAUTION!

When the batteries are discharged, charge them as soon as possible, as that condition makes them last shorter. Check for battery charge at least once a week.



WARNING!

Battery charging produces highly explosive hydrogen gas. Charge the batteries in well-ventilated areas and away from naked flames.

Do not smoke while charging the batteries.

While charging the battery, always keep the tank assembly open.



WARNING!

Be extremely careful when charging the batteries as there may be battery fluid leakages. The battery fluid is corrosive. If it comes in contact with skin or eyes, rinse thoroughly with water and call a physician.

Battery charging with battery charger installed on the machine

1. Drive the machine on a level floor.
2. For WET batteries only:
 - Open the covers (51 and 58) and check that the tanks (60 and 61) are empty, otherwise drain them through the drain hose (10) and the tap (24).
 - Close the covers (51 and 58).
 - Carefully lift the tank assembly (71).
 - Check the level of electrolyte inside the batteries (72). If necessary, remove the caps (75) and top off.
 - When the correct level is reached, close the caps (75) and clean, if necessary, the upper surface of the batteries.
3. Connect the battery charger cable (8) to the electrical mains (the electrical mains voltage and frequency must be compatible with the battery charger values shown on the machine serial number plate).



NOTE

When the battery charger is connected to the electrical mains, all machine functions are automatically cut off.

If the red warning light (F, Fig. 7) on the battery charger control panel stays on, the battery charger is charging the batteries.

4. When the green warning light (H) turns on, the battery charging is completed.
5. When the battery charging is completed, disconnect the battery charger cable (8) from the electrical mains and wind it round its housing (7).
6. For WET batteries only:
 - Carefully lower the tank assembly (71).
 - Fill the tanks (60 and 61).
7. The machine is ready to be used.



NOTE

For further information about the battery charger operation (I), see the relevant Manual.

FUSE CHECK/REPLACEMENT

1. Turn the ignition key (41) to "0".
2. Remove the nuts (E, Fig. 7), then remove the cover (A).
3. Check and, if necessary, replace the following fuses:
 - B. Low power circuit protection fuse (F3): (5 A)
 - C. Drive system electronic board protection fuse (F2): (60 A)
 - D. Function electronic board protection fuse (F1): (100 A)
4. Install the cover and tighten the nuts.

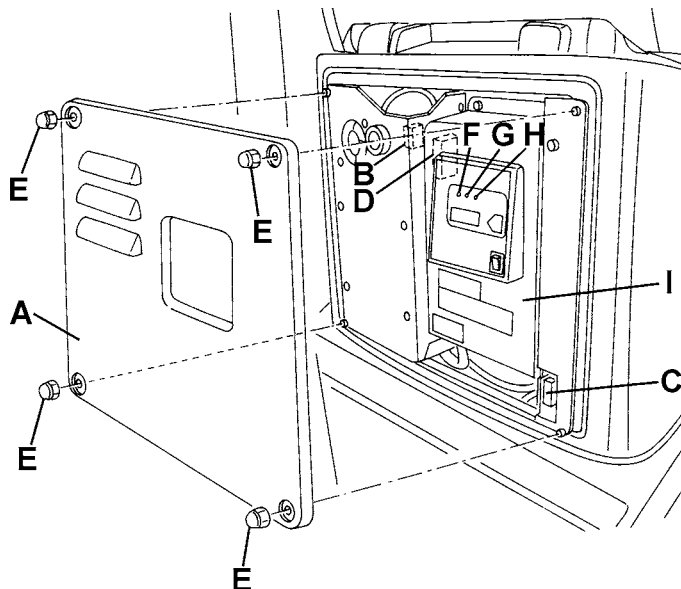


Figure 7

S311214A

SAFETY FUNCTIONS

The machine is equipped with the following safety functions.

EMERGENCY PUSH-BUTTON

It is located in a position (32) that is easily accessible for the operator. Press it in case of immediate necessity to stop all machine functions.

To reset it, turn it clockwise.

SPEED REDUCTION AT BENDS

It reduces the machine speed in case of bends exceeding a specified angle.

DRIVER SEAT MICROSWITCH

It is inside the driver's seat and it prevents the drive system operation when the operator is not on the driver's seat.

ELECTROMAGNETIC BRAKE

Built-in the front wheel, it keeps the machine stopped when: the machine is off, when the emergency stop button is pushed and when the drive pedal is not pressed.

TROUBLESHOOTING

TROUBLE	POSSIBLE CAUSE	ACTION
The motors do not work; no warning light turns on.	The battery connector (74) is disconnected.	Connect.
	The battery (72) are totally discharged.	Charge.
The machine does not move.	The machine has been turned on with the ignition key (41) while pressing the pedal (3).	Turn the machine off and then turn it on without pressing the drive pedal.
When turning on the machine, the switch warning light (34) flashes and the BOOST® deck does not operate.	The machine has been turned off without lifting the BOOST® deck.	Wait for the BOOST® deck to lift fully before pressing the switch (34) again.
The warning lights (37) flash simultaneously.	The BOOST® deck motor is overloaded.	Use less aggressive brushes suitable for the floor to be cleaned or avoid working with extra pressure function activated.
The BOOST® deck does not operate; the red warning light (37c) flashes.	The batteries are discharged.	Charge.
Dirty water vacuuming is insufficient.	The recovery tank (60) is full.	Empty.
	The vacuum screen (55) is clogged or the float is closing.	Clean the vacuum screen.
	The hose (11) is disconnected from the squeegee.	Connect.
	The squeegee (12) is dirty or the squeegee blades are worn or damaged.	Clean the squeegee or overturn/replace the blades.
	The tank cover is not properly closed, or the gasket (52) is damaged.	Close the cover properly or clean/replace the gasket.
The solution flow is insufficient.	The solution tank is empty.	Fill.
	The solution filter (9) is dirty.	Clean.
	The tank (61) is dirty, the output hole is clogged.	Clean.
The squeegee leaves marks on the floor.	There is debris under the squeegee blades (17 - 18).	Clean.
	The squeegee blades (17 - 18) are worn, chipped or torn.	Overturn or replace.
	The squeegee has not been balanced with the handwheel (16).	Adjust.



NOTE

*The machine cannot operate without the battery charger on board.
In case of battery charger malfunction, contact an authorized Service Center.*

For further information, contact Clarke Service Centers.

SCRAPPING

Have the machine scrapped by a qualified scrapper.

Before scrapping the machine, remove and separate the following materials, which must be disposed of properly according to the Law in force:

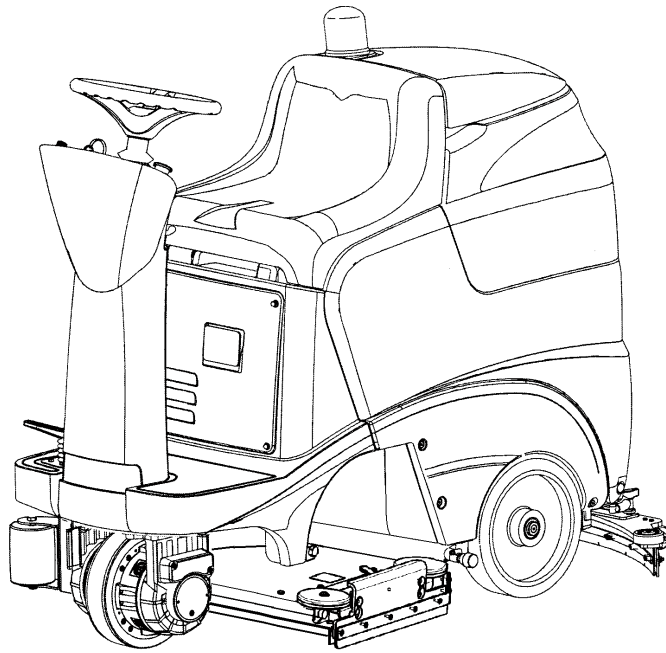
- Batteries
- Brush
- Plastic hoses and components
- Electrical and electronic components (*)

(*) Refer to the nearest Clarke Center especially when scrapping electrical and electronic components.

Clarke[®]

CR 28

BOOST[®]



Parts List

[] = Not shown

* = optional

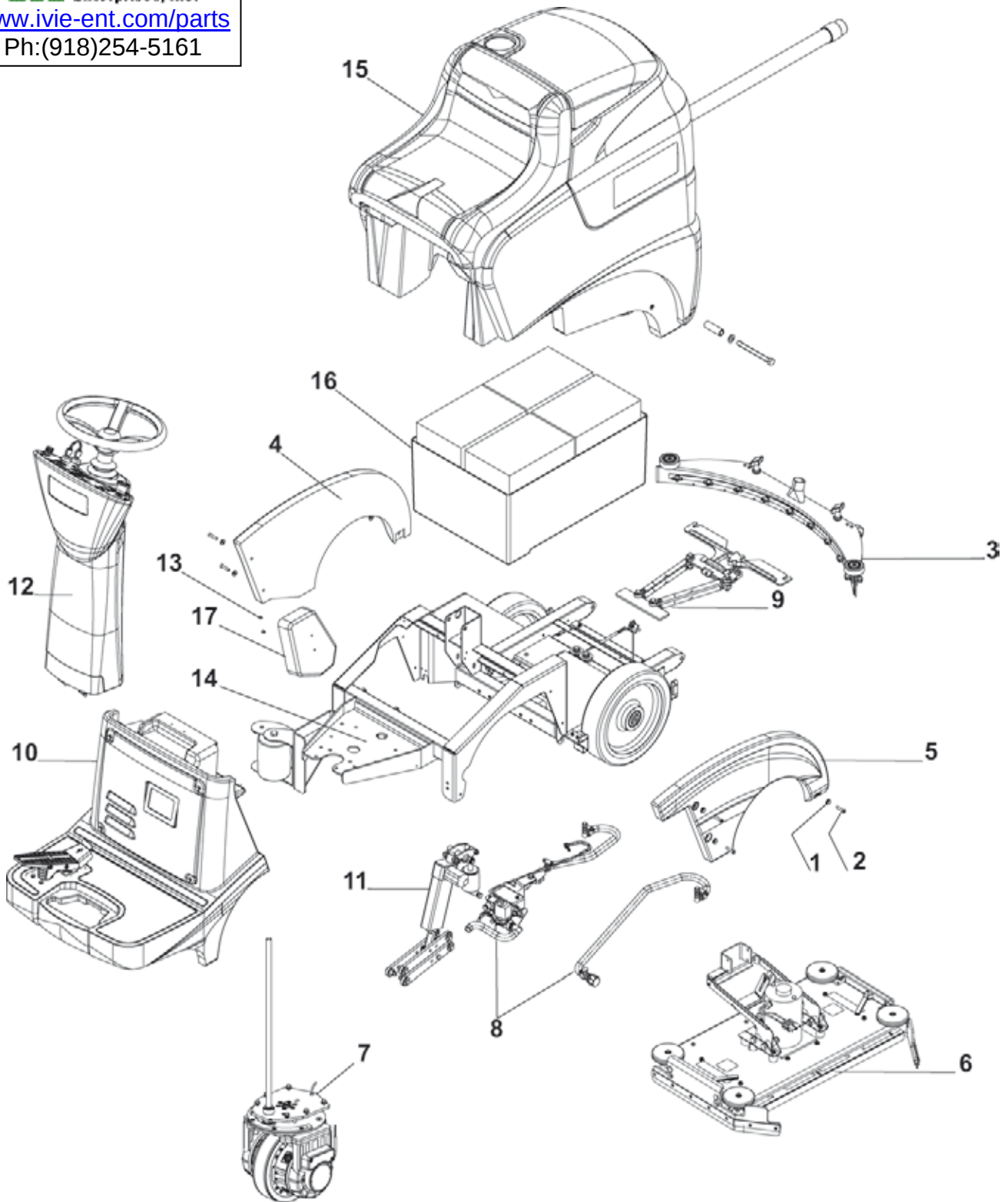
= Modified item No. or New item No.

GENERAL VIEW

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Ph:(918)254-5161



GENERAL VIEW - 09/2008

Ref.	Part No.	Description	Qty
1	145 1129 000	WASHER 16X6	6
2	145 1894 000	SCREW M6X30	6
3#		SQUEEGEE SYSTEMS (SEE PAGE 96)	1
4	9097390000	HATCH RIGHT	1
5	9097391000	HATCH LEFT	1
6#		BRUSH SYSTEMS (SEE PAGE 98)	1
7#		FRONT WHEEL ASSEMBLY (SEE PAGE 82)	1
8#		SOLUTION SYSTEM (SEE PAGE 94)	1
9#		SQUEEGEE SUPPORT SYSTEM (SEE PAGE 96)	1
10#		FOOTBOARD ASSEMBLY (SEE PAGE 92)	1
11#		BRUSH DECK LIFTING SYSTEM (SEE PAGE 106)	1
12#		STEERING SYSTEM (SEE PAGE 86)	1
13	146 0765 000	SCREW 6X10	2
14#		CHASSIS ASSEMBLY (SEE PAGE 80)	1
15#		TANKS ASSEMBLY (SEE PAGE 76)	1
16	909 6068 000	BATTERY CONTAINER	1
17	909 6158 000	BOX FOR BATTERY CHARGER CABLE	1
[18]	40136A	BATTERY 6V 250 AH WET	4
[19]	56315772	BATTERY 6V 255 AH AGM	4

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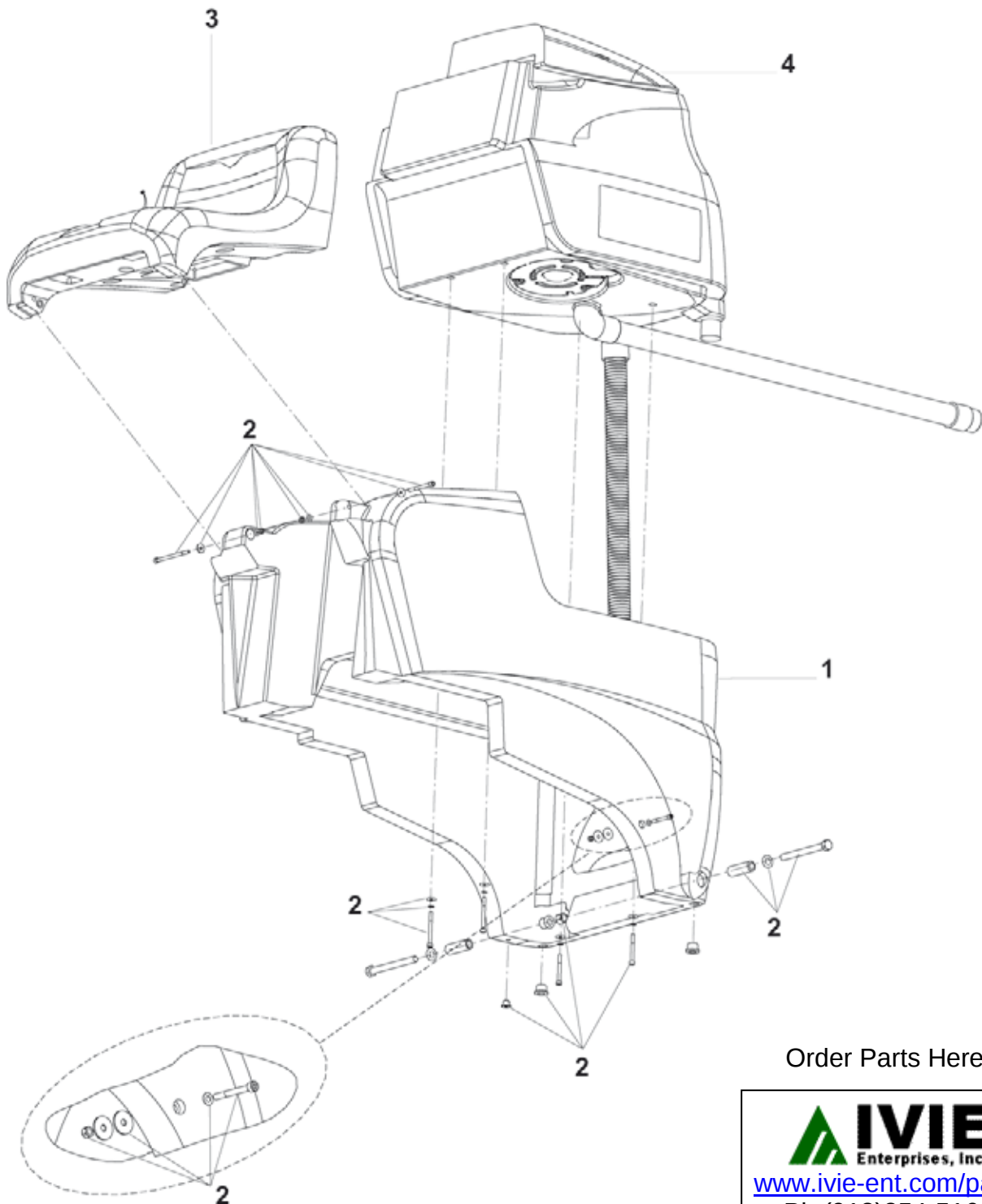


NOTE: # indicates a change has been made since the last publication of this manual

TANKS ASSEMBLY

SEE SEAT ASSEMBLY

SEE RECOVERY TANK



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TANKS ASSEMBLY - 09/2008

Ref.	Part No.	Description	Qty
1	909 6245 000	FRESH WATER TANK	1
2	909 6401 000	HARDWARE WATER TANK KIT	1
3#		SEAT ASSEMBLY ((SEE PAGE 104)	1
4#		RECOVERY TANK (SEE PAGE 78)	1

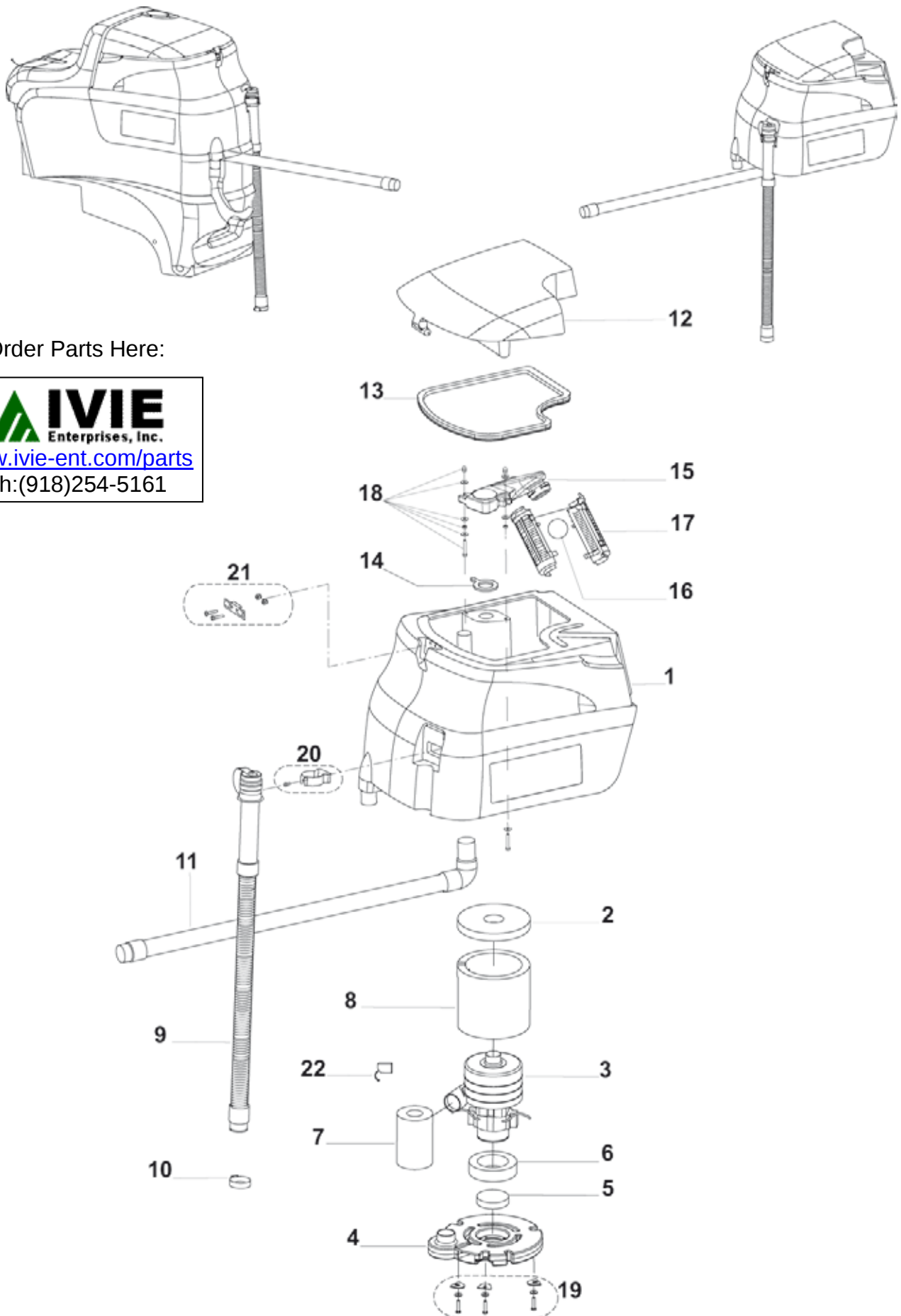
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RECOVERY TANK

Order Parts Here:



RECOVERY TANK - 09/2008

Ref.	Part No.	Description	Qty
1	9097340000	RECOVERY TANK BLUE	1
2	909 6489 000	GASKET VACUUM MOTOR	1
3	9097466000	MOTOR VACUUM 3ST 500W CPL	1
4	909 6051 000	COVER VACUUM MOTOR	1
5	9097399000	FILTER	1
6	909 6490 000	GASKET VACUUM MOTOR	1
7	909 6442 000	PIPE ACOUSTIC INSULATION	1
8	909 6491 000	PANEL ACOUSTIC INSULATION	1
9	9097393000	HOSE DRAIN BLACK	1
10	145 0543 000	CLAMP 24/32-52	1
11	9097394000	HOSE VACUUM BLACK	1
12	909 6247 000	COVER TANK BLUE	1
13	909 6268 000	GASKET	1
14	L08812968	GASKET	1
15	909 6199 000	HOLDER FLOAT CAGE	1
16	L08812373	BALL FLOATING	1
17#	L08812259	CAGE FLOAT CPL	2
18	909 6876 000	HARDWARE RECOVERY TANK KIT	1
19	909 6877 000	HARDWARE MOTOR FIXING KIT	1
20	909 6380 000	CLAMP KIT	1
21	909 6810 000	COVER TANK LOCKING KIT	1
22	909 5371 000	CARBON BRUSH	2
[23]	909 6812 000	INSTALLATION INSTRUCTION COVER TANK LOCKING KIT	1

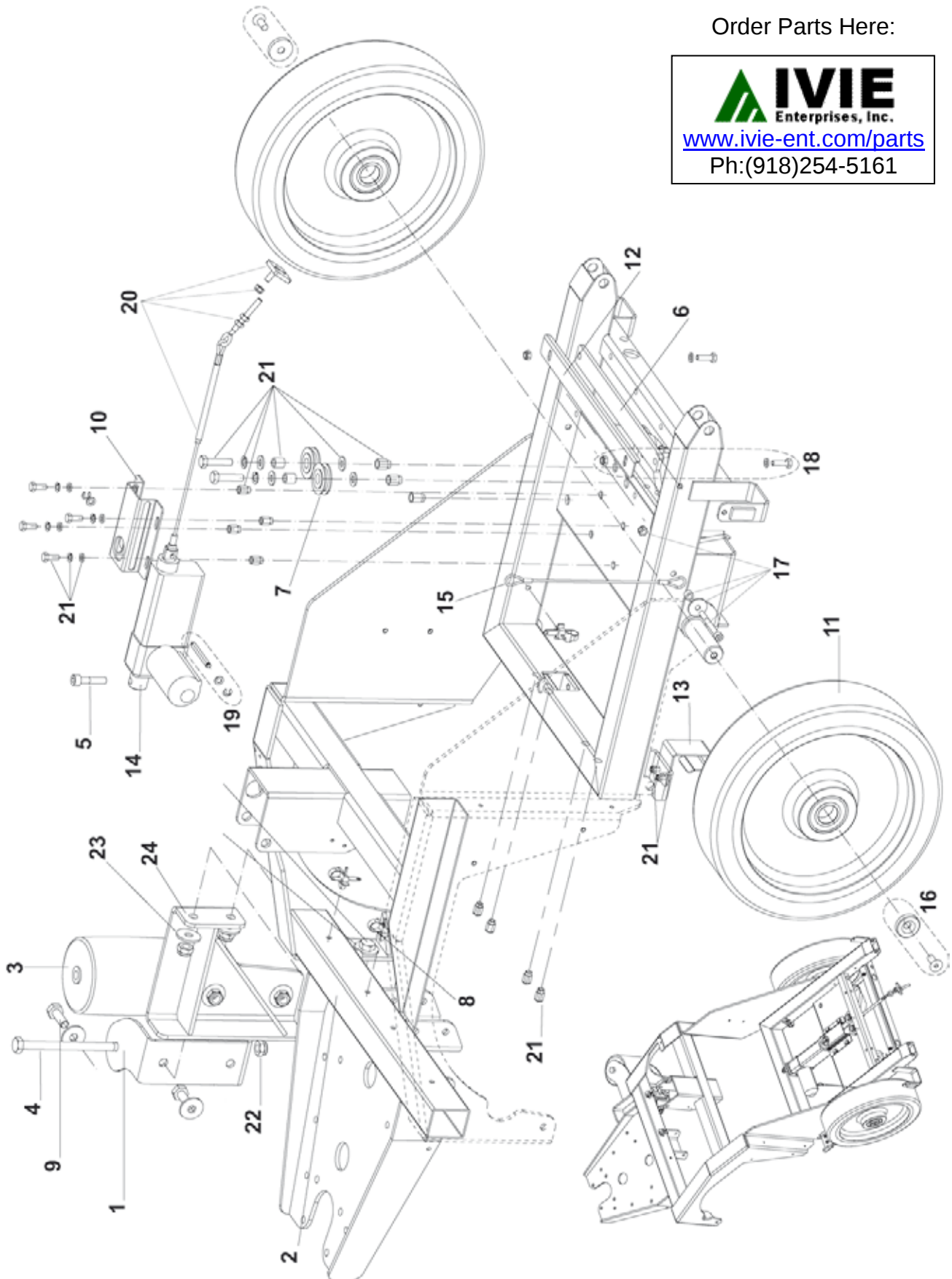
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CHASSIS SYSTEM

Order Parts Here:



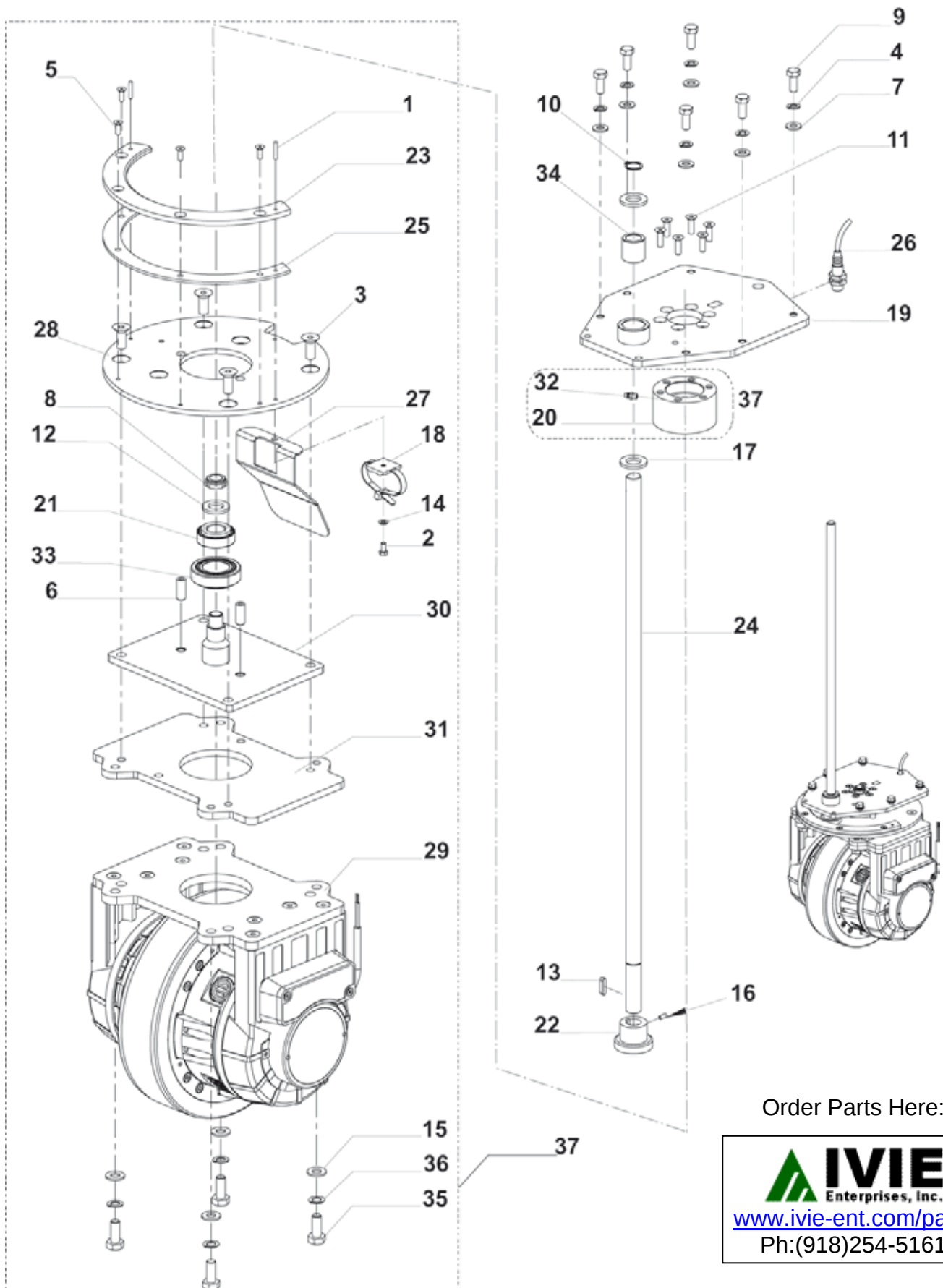
CHASSIS SYSTEM

Ref.	Part No.	Description	Qty
1	9097206000	SUPPORT ROLLER BUMPER	1
2	909 6065 000	CHASSIS	1
3	L08812248	BUMPER ROLLER	1
4	33003824	SCREW M10X150 UNI5737	1
5	33004368	SCREW M8X35	1
6	909 6240 000	PLATE	1
7	145 2612 000	PULLEY	2
8	146 0987 000	CLAMP	4
9	33004010	SCREW HEX M10X30 UNI5739	2
10	909 6066 000	ACTUATOR PROTECTION	1
11	9097389000	REAR WHEEL Ø 300X70	2
12	909 6069 000	BAR PROTECTION CABLE	1
13	909 6070 000	DRAIN HOSE BRACKET	1
14	909 6715 000	JACK MOTOR 24V	1
15	909 6151 000	TANK CABLE	1
16	909 6364 000	REAR WHEELS FITTING KIT	1
17	909 6365 000	KIT TANK CABLE	1
18	909 6366 000	BAR PROTECTION FITTING KIT	1
19	909 6367 000	ACTUATOR'S PIN FITTING KIT	1
20	909 6718 000	CABLE SQUEEGEE KIT	1
21	909 6368 000	CHASSIS HARDWARE KIT	1
22	33005608	NUT SELF L. M10 UNI7474	5
23	L08604251	WASHER 10X30 UNI6592	8
24	9097207000	PLATE ROLLER BUMPER SUP.	1
[25]	909 6719 000	INSTALLATION INSTRUCTIONS FOR CABLE SQUEEGEE KIT	

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FRONT WHEEL ASSEMBLY

Ref.	Part No.	Description	Qty
1	L08600669	SPLIT PIN	2
2	L08603041	SCREW M5X10 UNI7985	1
3	33004605	SREW HEX THD TO HD M5X10	4
4	33005842	WASHER SPLIT 8	6
5	33004562	SCREW M5X14	4
6	145 5919 000	DOWEL M10X25	2
7	33005915	WASHER FLAT 8X17	6
8	145 9157 000	RING NUT	1
9	33005444	SCREW HEX HD 8X20	6
10	33006056	RETAINING RING	1
11	33004578	SCREW M6X20	6
12	33005919	WASHER FLAT	2
13	145 9774 000	KEY	1
14	33005912	WASHER 5 UNI6592	1
15	145 9966 000	WASHER FLAT 10X21X2 SS	4
16	146 1533 000	DOWEL	1
17	146 2873 000	WASHER FLAT 16X30 NYLON	1
18	909 5606 000	CLAMP	1
19	909 5940 000	STEERING SUPPORT PLATE	1
20	909 5941 000	BALL BEARING SUPPORT	1
21	909 5942 000	BALL BEARING	1
22	909 5943 000	STEERING PINION	1
23	909 5944 000	CROWN	1
24	909 5945 000	STEERING SHAFT	1
25	909 5947 000	SPACER	1
26	909 6121 000	SENSOR	1
27	909 6221 000	BRACKET WIRE PROTECTION	1
28	9096930000	GEAR SUPPORT	1
29	9096931000	MOTOR DRIVE WHEEL CPL	1
30	9096933000	STEERING SUPPORT	1
31	9096934000	MOTOR DRIVE WHEEL UPPER PLATE	1
32	145 2330 000	GREASER	1
33	145 4691 000	BALL BEARING	1
34	145 9505 000	BUSHING	1
35	9097462000	SCREW M10X25 UNI5739	4
36	33005843	WASHER SPLIT 10	4
37	9096928000	WHEEL DRIVE KIT	1
[38]	9096929000	INSTALLATION INSTRUCTIONS FOR WHEEL DRIVE KIT	1
[39]	9096927000	HARNESS WHEEL DRIVE	1

Order Parts Here:

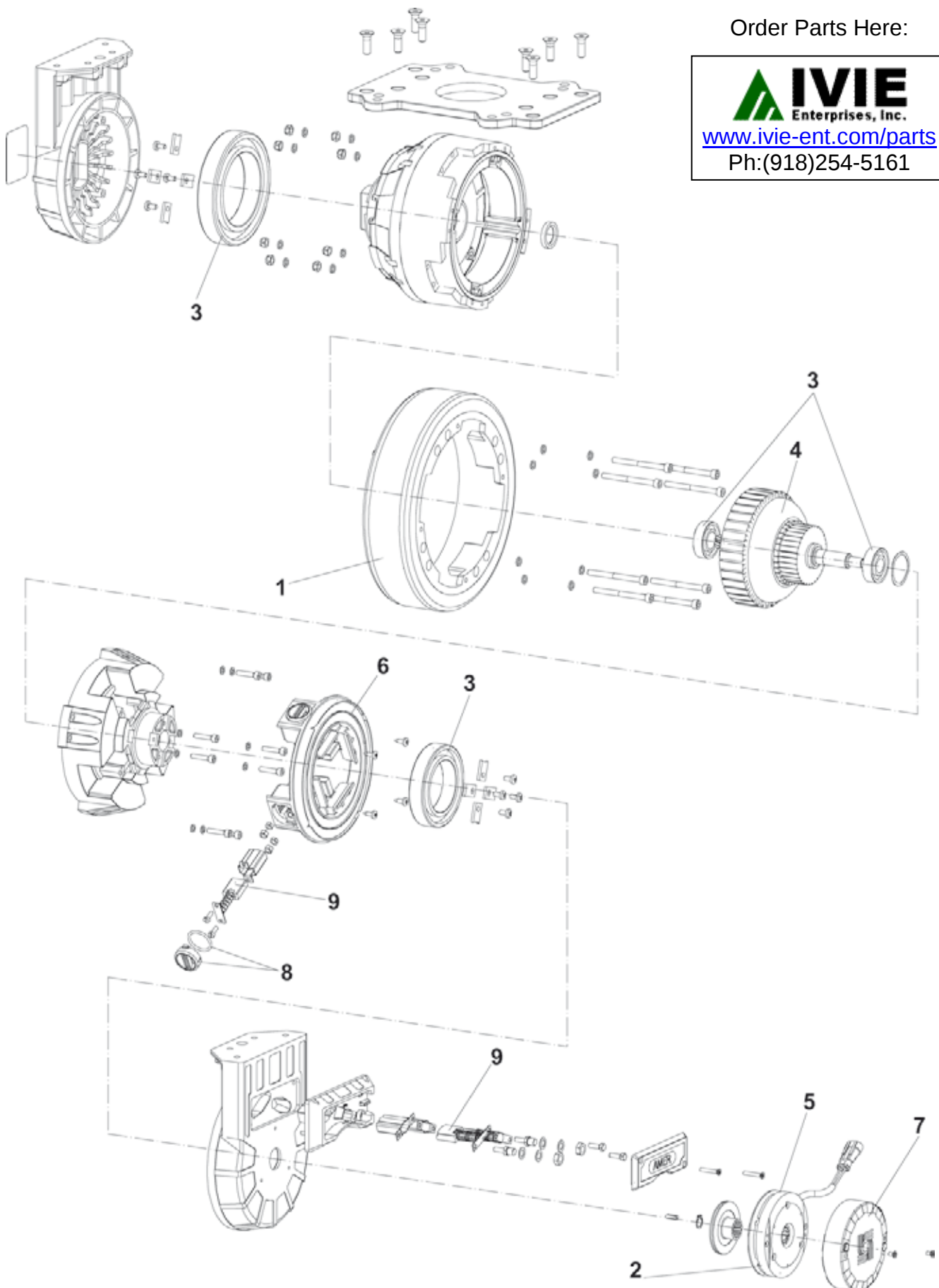


MOTOR DRIVE WHEEL

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MOTOR DRIVE WHEEL

Ref.	Part No.	Description	Qty
1	9096935000	TYRE WHEEL	1
2	9096966000	ELECTROMAGNETIC BRAKE	1
3	9096959000	BALL BEARING KIT	1
4	9096967000	ARMATURE	1
5	9096976000	BRAKE SHOE	1
6	9096968000	RING	1
7	9096970000	BRAKE COVER	1
8	9096969000	PLUG	1
9	9096960000	BRUSHES KIT	1

Order Parts Here:



STEERING SYSTEM - 09/2008

Ref.	Part No.	Description	Qty
1	33005691	NUT HEX M5 UNI5588	2
2	33005842	WASHER M8 UNI1751B	8
3	145 4773 000	INSERT HEX. M8	4
4	33005571	NUT M12X1,25 UNI7473	2
5	33005445	SCREW M8X25 UNI5739	8
6	33005915	WASHER M8 UNI6592	8
7	909 6074 000	CABLE	1
8	146 1011 000	SCREW M12X30	2
9	146 2445 000	STEERING COLUMN	1
10	146 2446 000	SUPPORT	1
11	146 2449 000	PLUNGER INDEXING	1
12	146 2450 000	ROD TENSION M5X52	1
13	146 2457 000	BELLOW RUBBER	1
14	146 2458 000	LEVER	1
15	909 5011 000	SCREW OVAL HD M6X20 SS	3
16	909 6071 000	STEERING COLUMN	1
17	909 6072 000	WHEEL STEERING	1
18	909 6248 000	FRONT COVER	1
19	146 2448 000	BUSHING	2
20	145 9619 000	JOINT	1
21	146 2447 000	WASHER FLAT 12X36	2
22#	9097989000	KIT DECALS CR 28	1
23	909 6398 000	SUPPORT FITTING KIT	1
24	909 6399 000	KIT ROD TENSION	1
25	909 6400 000	STEERING SYSTEM HARDWARE KIT	1
26	145 9290 000	SPRING	1
27#		CONTROL PANEL ASSEMBLY (SEE PAGE 88)	1

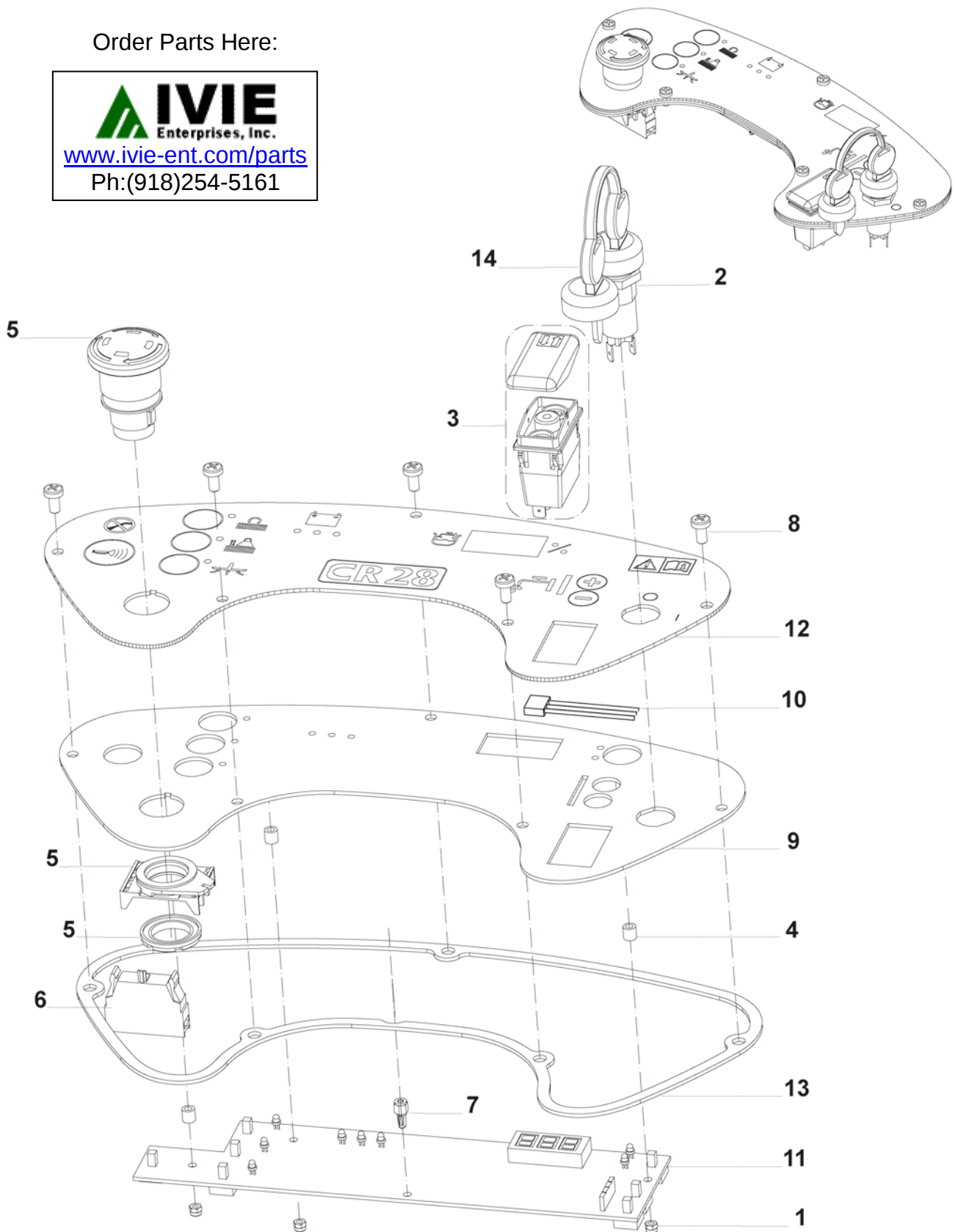
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CONTROL PANEL ASSEMBLY

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CONTROL PANEL ASSEMBLY

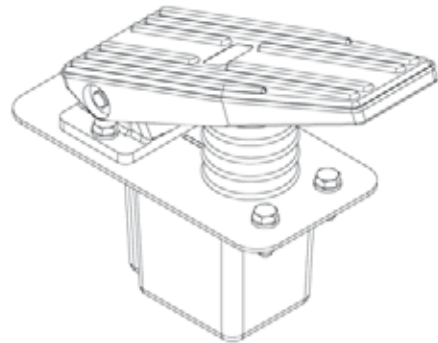
Ref.	Part No.	Description	Qty
1	33005601	NUT HEX SELFLOCK M3	3
2	146 2888 000	KEY SWITCH	1
3	146 2655 000	SWITCH FORWARD-REVERSE SPEED CPL.	1
4	909 6605 000	SPACER	3
5	146 1727 000	EMERGENCY SWITCH	1
6	146 1728 000	CONTACT	1
7	909 6608 000	ELECTRONIC BOARD SUPPORT	1
8	146 1710 000	SCREW M 5X10	5
9	9097335000	CONTROL PANEL	1
15	9097420000	CABLE	1
11	909 6077 000	ELECTRONIC BOARD	1
12	9097782000	DECAL CONTROL PANEL	1
13	909 6079 000	CONTROL PANEL GASKET	1
14	146 2887 000	KEY	2

Order Parts Here:

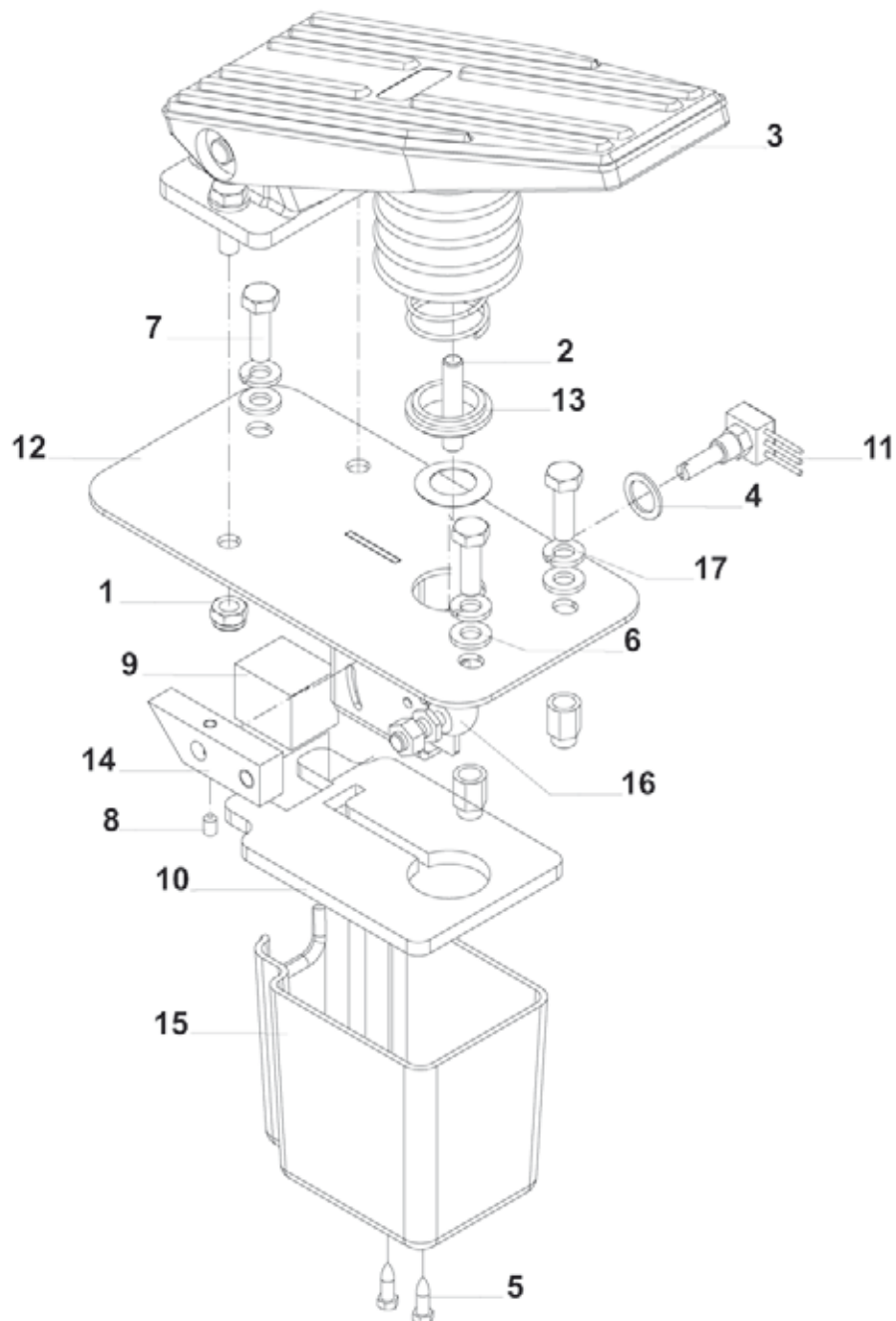


PEDAL ASSEMBLY

Order Parts Here:



18

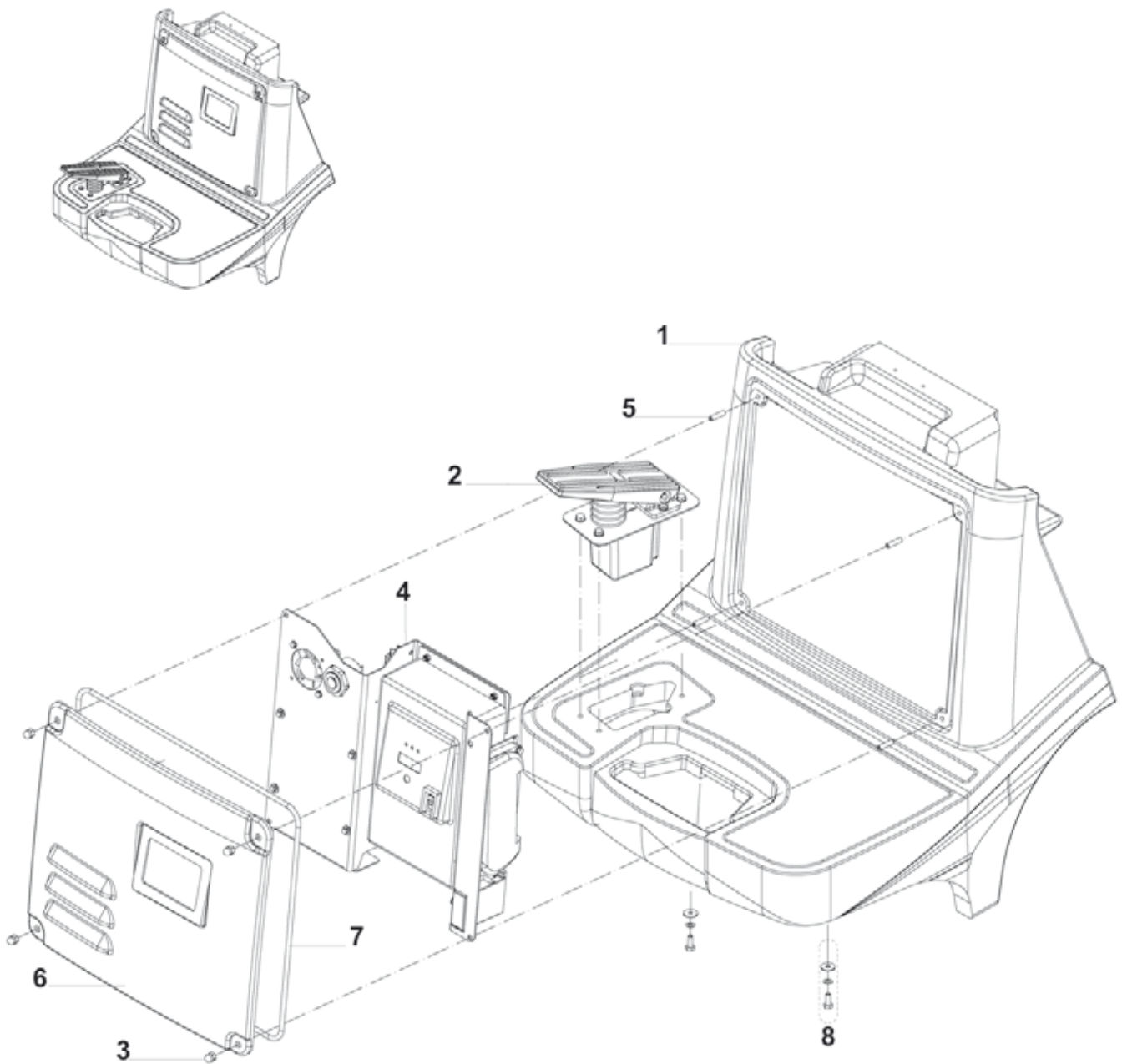


PEDAL ASSEMBLY

Ref.	Part No.	Description	Qty
1	33005604	NUT SELF L. M6 UNI7474	2
2	145 2473 000	ROD TENSION M6X32	1
3	145 3665 000	PEDAL	1
4	33005869	WASHER M10 UNI8842A	1
5	145 5867 000	SCREW 3,9X13 UNI6950	2
6	33005913	WASHER M6 UNI6592	3
7	33003915	SCREW M6X20 UNI5739	3
8	146 0621 000	SCREW GRUB M4X 6 UNI5929	1
9	146 2062 000	GASKET ADHESIVE 20X20	1
10	146 2315 000	GASKET, PEDAL	1
11	146 2606 000	HARNESS PEDAL	1
12	146 2607 000	SUPPORT,SPEED CONTR.PEDAL	1
13	145 2589 000	WASHER	1
14	145 2590 000	CONNECTING ROD	1
15	145 4086 000	COVER PEDAL RUBBER	1
16	145 8479 000	JOINT BALL M6	1
17	33005851	WASHER M6 UNI1751B	3
18	9097518000	PEDAL KIT	1

Order Parts Here:



FOOTBOARD ASSEMBLY

Order Parts Here:



FOOTBOARD ASSEMBLY - 09/2008

Ref.	Part No.	Description	Qty
1	9097392000	FOOTBOARD	1
2#		PEDAL ASSEMBLY (SEE PAGE 90)	1
3	145 4618 000	BLIND NUT M6 SS	4
4#		ELECTRICAL COMPONENTS (SEE PAGE 108)	1
5	146 0759 000	DOWEL M6X25	4
6	909 6122 000	ELECTRONIC CARD COVER	1
7	909 6838 000	GASKET	1
8	909 6369 000	FOOTBOARD ASSY HARDWARE KIT	1

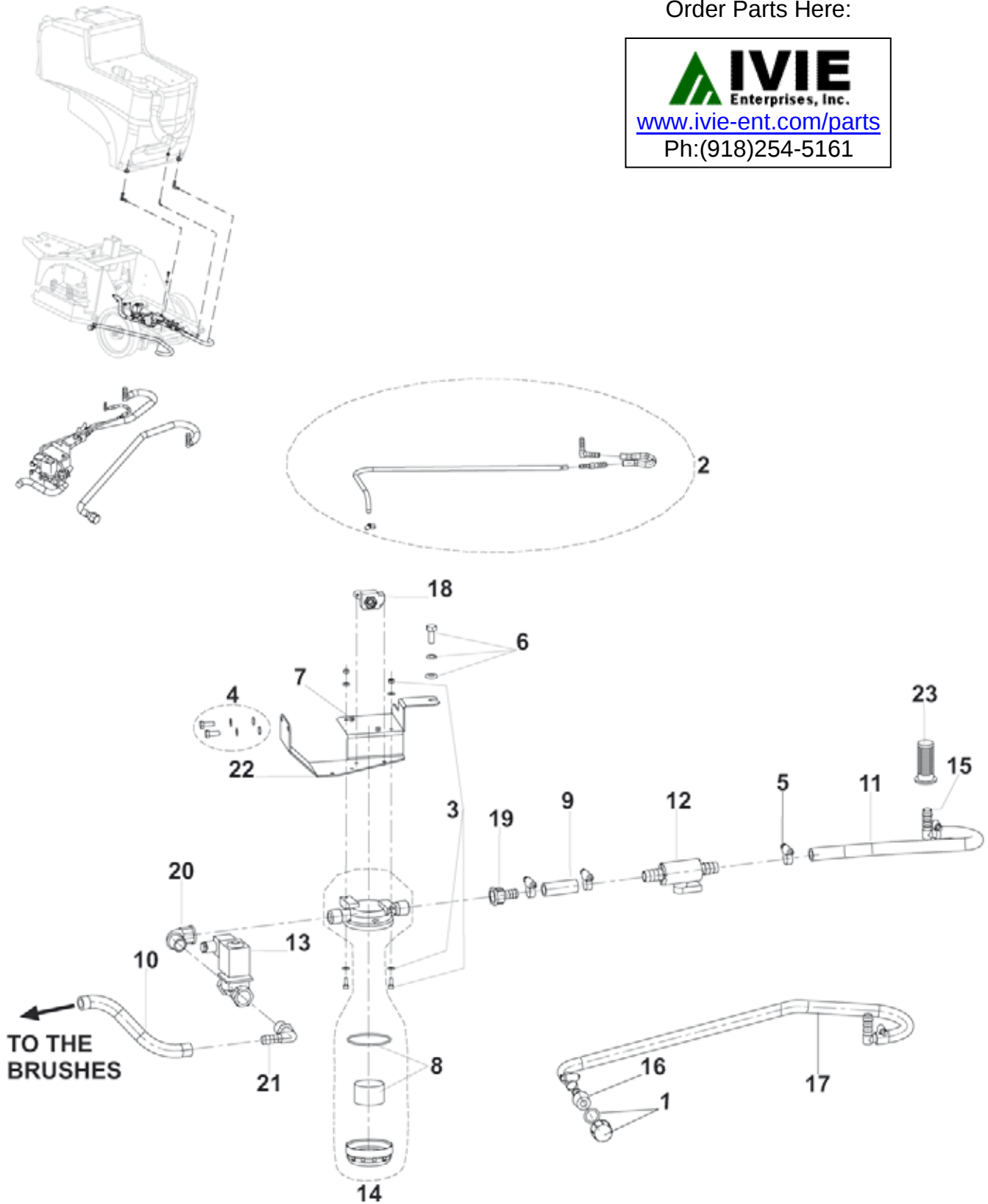
Order Parts Here:



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SOLUTION SYSTEM

Order Parts Here:



SOLUTION SYSTEM

Ref.	Part No.	Description	Qty
1	909 6389 000	CAP KIT	1
2	909 6390 000	PRESSURE SENSOR HOSE KIT	1
3	909 6391 000	FILTER FITTING KIT	1
4	909 6392 000	SUPPORT FITTING KIT	1
5	33003496	HOSE CLAMP	6
6	909 6393 000	SOLUTION SYSTEM HARDWARE KIT	1
7	145 5869 000	SCREW 3,9X9,5	2
8	909 5215 000	NET, WATER FILTER AND GASKET	1
9	909 6348 000	HOSE	1
10	909 6347 000	HOSE	1
11	909 6346 000	HOSE	1
12	9096954000	VALVE	1
13	909 5205 000	SOLENOID VALVE	1
14	909 5207 000	WATER FILTER	1
15	909 6080 000	ELBOW 90°	2
16	909 6081 000	PIPE HOLDER 1/2 MALE	1
17	909 6328 000	DRAIN HOSE	1
18	9097544000	PRESSURE SENSOR	1
19	909 6085 000	PIPE HOLDER STRAIGHT	1
20	909 6086 000	CURVED ELBOW M/F	1
21	909 6087 000	CURVED ELBOW 90° M	1
22	909 6088 000	SUPPORT, SOLENOID VALVE	1
23*	9096916000	SOLUTION TANK FILTER	1

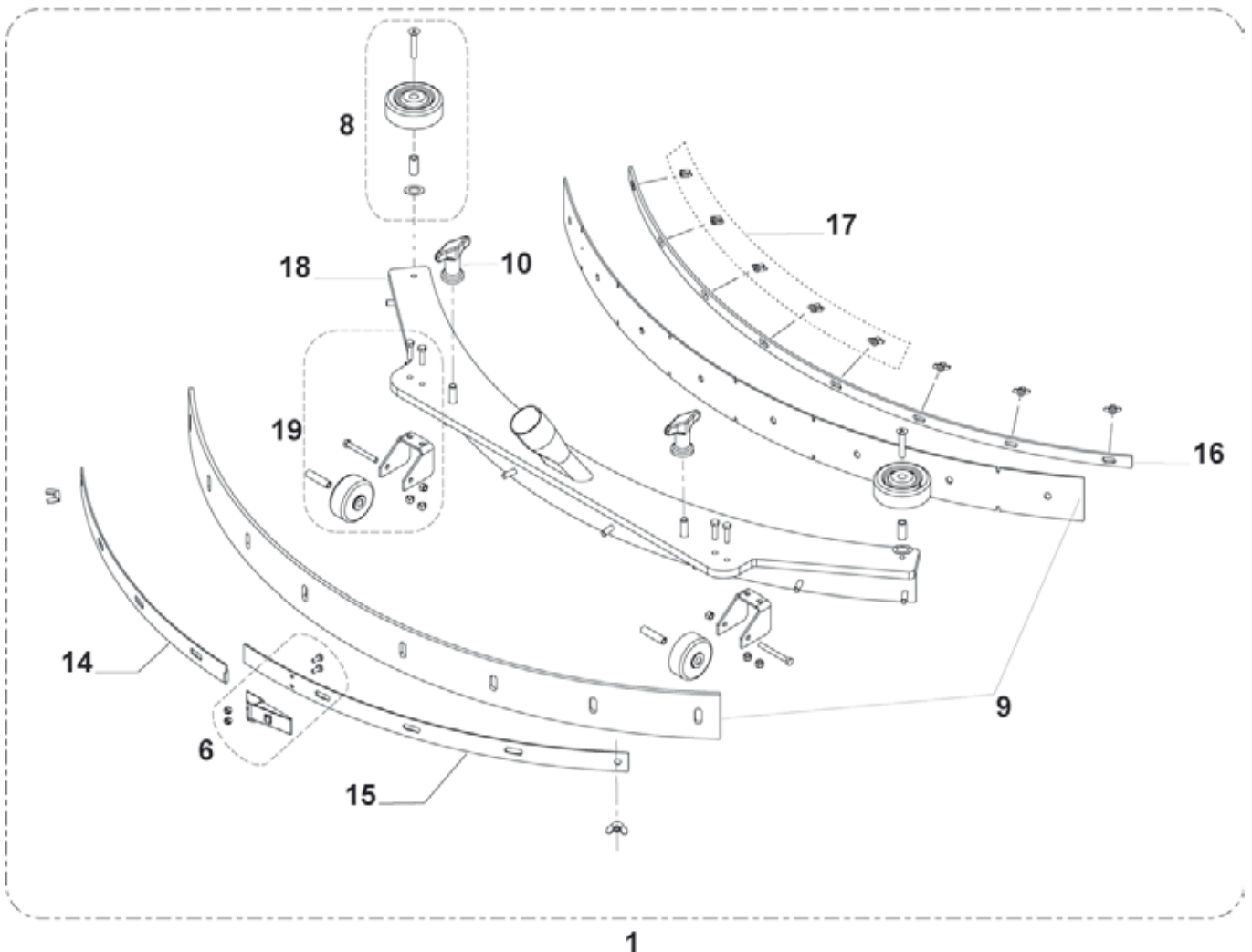
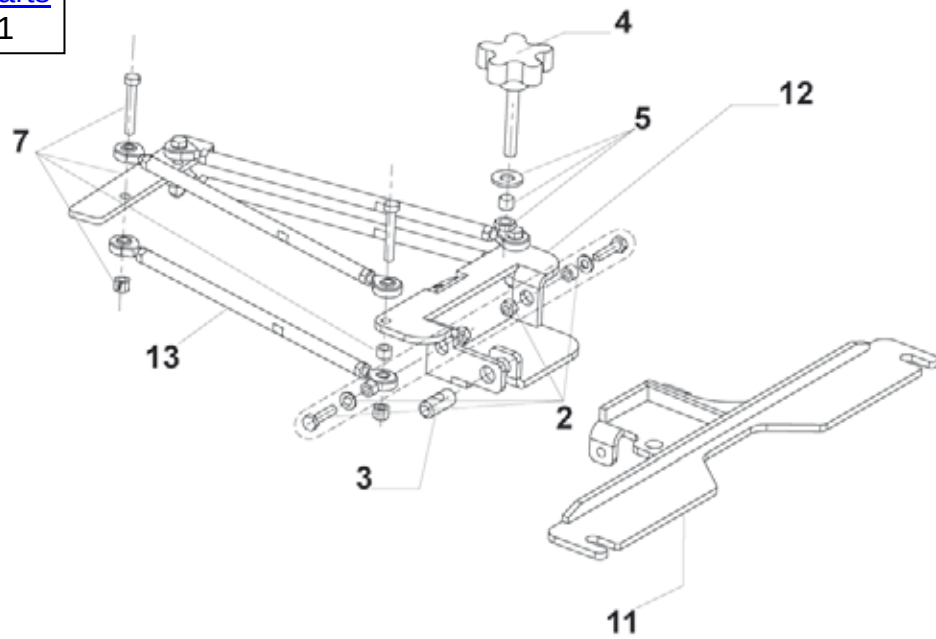
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SQUEEGEE SYSTEMS

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SQUEEGEE SYSTEMS - 09/2008

Ref.	Part No.	Description	Qty
1#	9098022000	KIT SQUEEGEE 34"	1
2	909 6397 000	SQUEEGEE SYSTEM HARDWARE KIT	1
3	L08601509	PIN, SQUEEGEE SUPPORT	1
4	909 6223 000	HANDWHEEL M8X45	1
5	909 6396 000	HANDWHEEL FITTING KIT	1
6	909 6394 000	SQUEEGEE LATCH KIT	1
7	9096973000	TENSION ROD FITTING KIT	1
8	L08603880	KIT BUMPER ROLLER	1
9	9096991000	BLADES POLYURETHAN KIT 34"	1
10	L08603675	THUMB NUT SQUEEGEE FIXING	2
11	909 6103 000	SQUEEGEE SUPPORT	1
12	909 6104 000	PLATE, SQUEEGEE SUPPORT	1
13	9096944000	TENSION ROD	4
14	909 5351 000	STRAP LEFT REAR	1
15	909 5352 000	STRAP RIGHT REAR	1
16	909 5349 000	STRAP FRONT R	1
17	909 6356 000	WING NUTS KIT	2
18	909 5487 000	WELDMENT SQUEEGEE TOOL	1
19	L08603879	KIT SQUEEGEE WHEEL	1

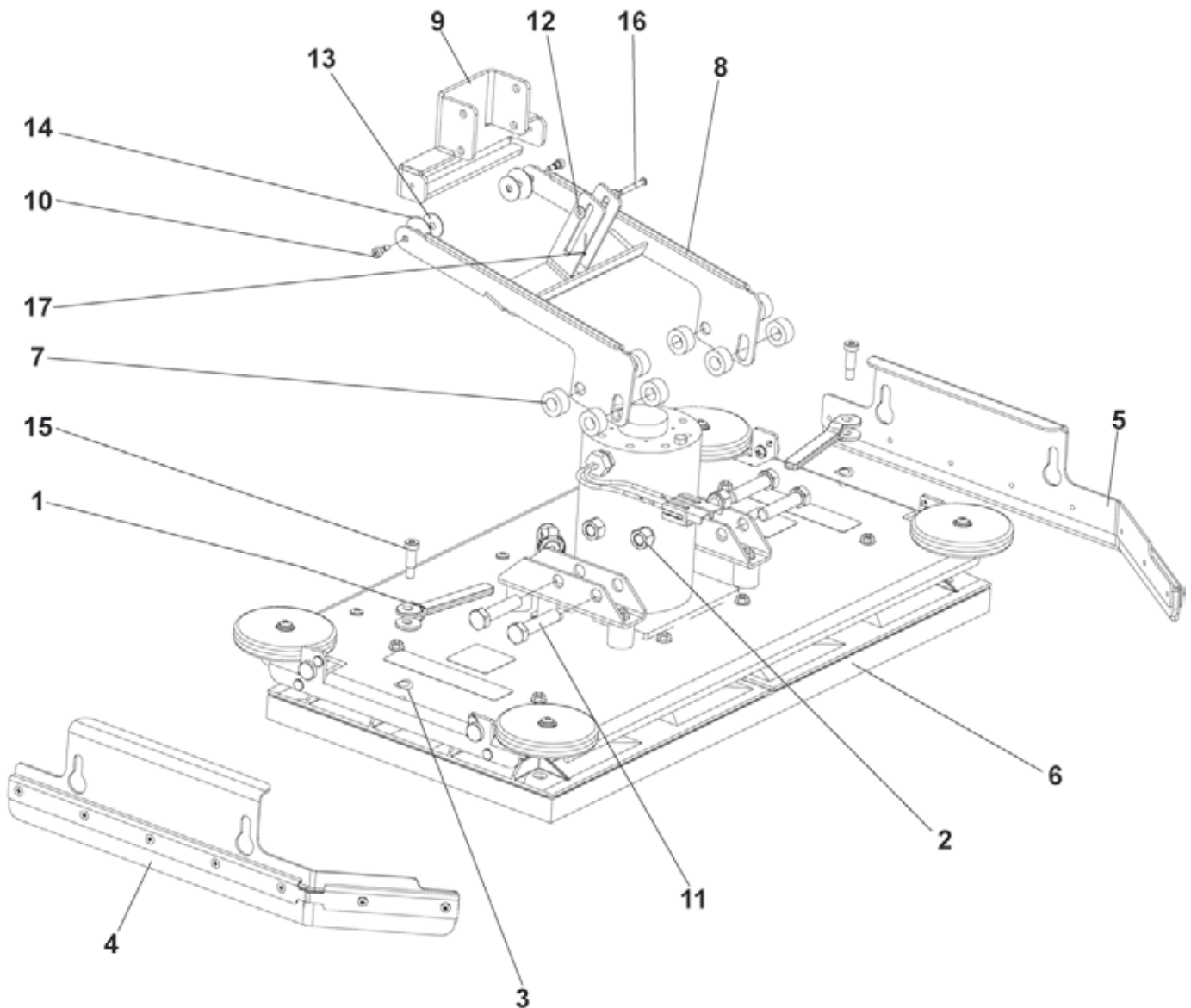
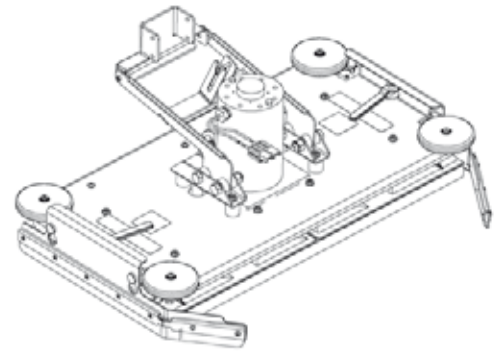
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BOOST® HEAD ASM - 09/2008

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BOOST® HEAD ASM - 09/2008

Ref.	Part No.	Description	Qty
1#	40262A	CAM LOCKING	2
2	920365	NUT 1/2-13 NYLOCK	4
3#	80317A	WASHER, BOWED 1/4	2
4	11216A	LEFT HAND SQUEEGEE ASM.	1
5	11217A	RIGHT HAND SQUEEGEE ASM.	1
6	11219A	DECK ASM BOOST	1
7	30735A	SPACER, LIFT ARM	8
8	61939A	ARM. LIFT WELDMENT	1
9	61941A	HEAD ADAPTOR WELDMENT	1
10	80018A	SCREW, SHOULDER 1/4" DIA.	2
11	80330A	SCREW, 1/2-13 X 2 1/4 GR. 5	4
12	87024A	WASHER, .203 X .469 X .063	2
13	87039A	WASHER, FENDER 1/4"	2
14	87625A	WASHER, NYLON 1 1/4 X 1/4 X 1/32	2
15#	88634A	BOLT, SHOULDER 3/8 X 3/4	2
16#	80367A	3/16 X 2.00 LG CLEVIS PIN	1
17	88637A	1/16 COTTER PINT	1

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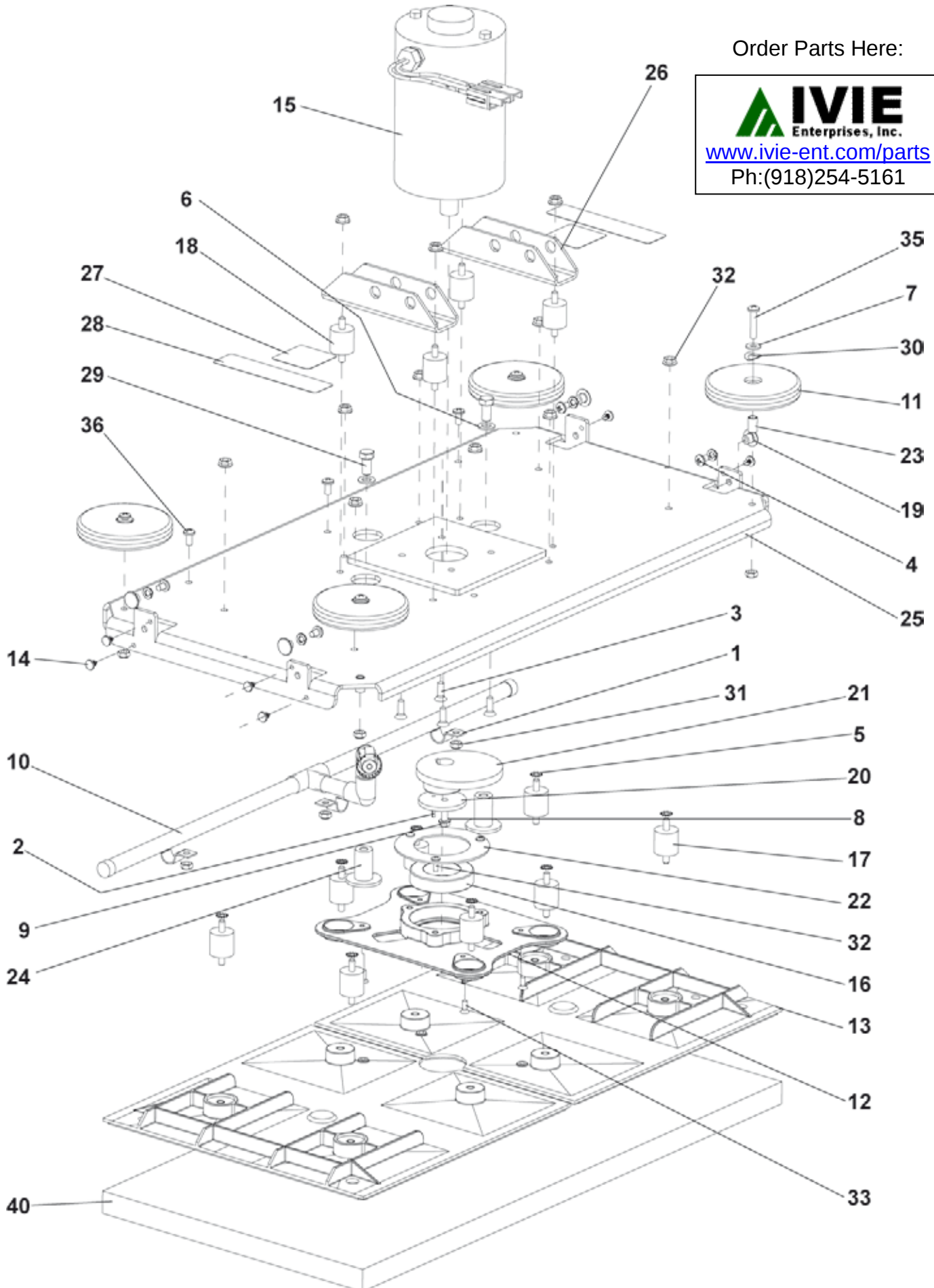
DECK ASM. BOOST®

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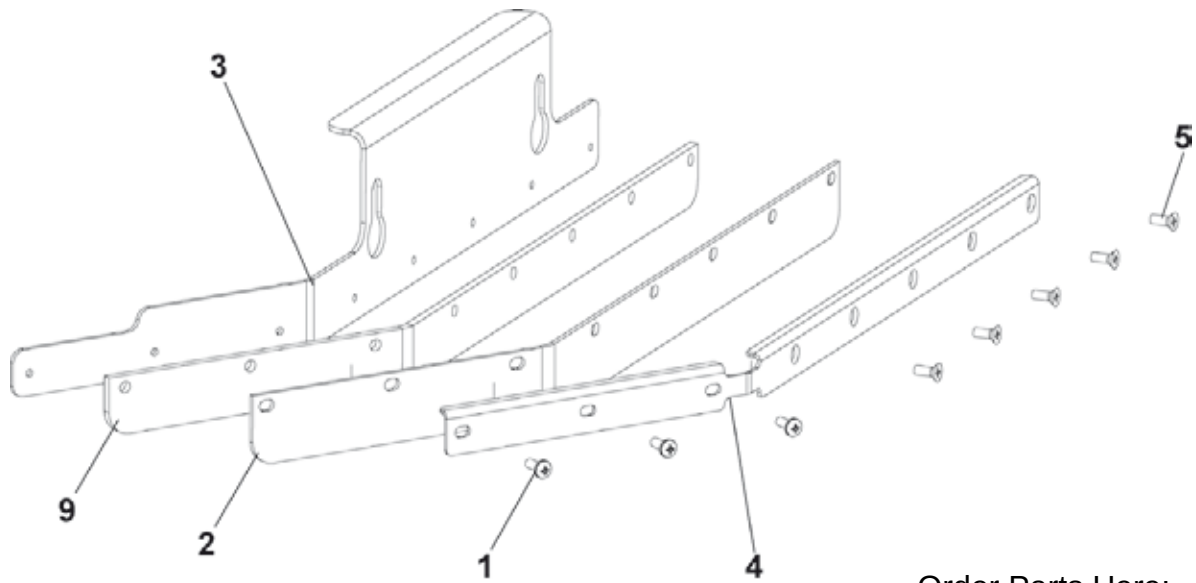
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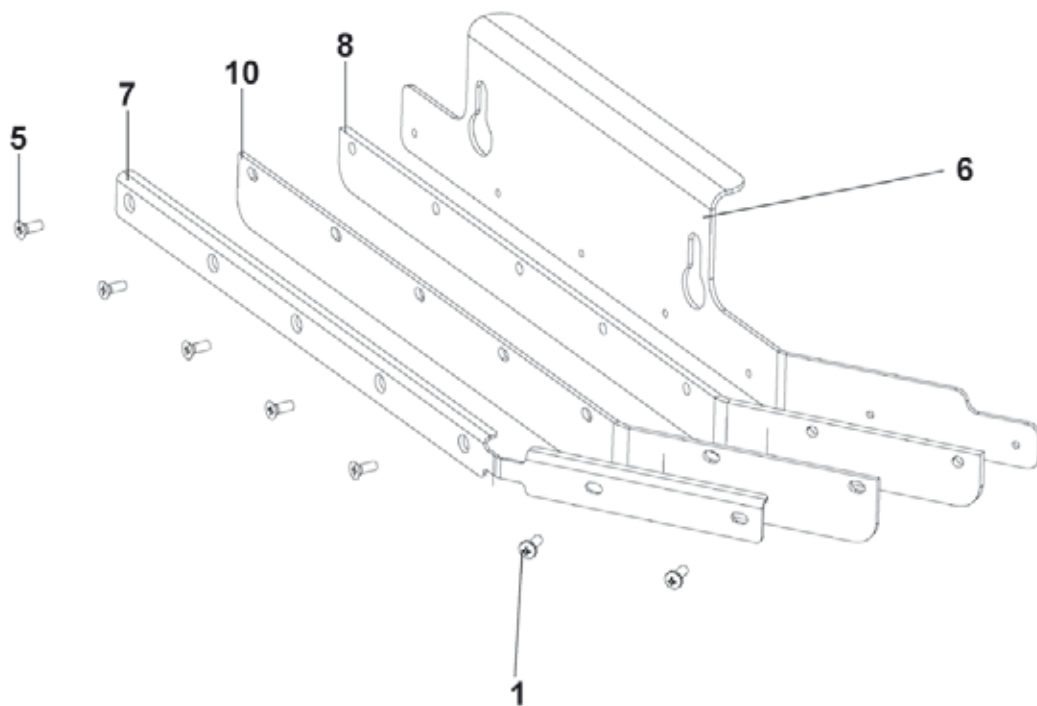
Ref.	Part No.	Description	Qty
1	782002	CLAMP, MANIFOLD	3
2	925589	PIN, ROLL	1
3	962098	SCREW, 1/4-20 X 3/4 F.H.	4
4	962983	SCREW, 1/4-20 X 3/8 PHCR	4
5	980614	WASHER, 1/4" STARLOCK EXTERNAL	8
6	980638	WASHER, 3/8 LOCK	2
7	980646	WASHER, 1/4" FLAT	4
8	980657	WASHER, LOCK 1/4	5
37	85737A	SCREW, 1/4-20 X 1/2 H.H.C.S.	1
10	11215A	TUBE ASM, 28" LF DRIP	1
11	30048A	GUIDE, WHEEL	4
12	30663A	PLATE, DRIVER	1
13	30674A	PLATE, FLEX, ASM 28"	2
14	38033A	CHRISTMAS TREE CLIP	8
15	40790B	MOTOR, 24VDC	1
16	50736A	BEARING	1
17	53730A	ISOLATOR, DECK	8
18	54753B	SPRING, RUBBER	4
19#	60454A	SPACER, SIDE SKIRT	4
20	61724A	RETAINER, ECCENTRIC	1
21	61753A	ECCENTRIC	1
22	61775A	RETAINER, BEARING	1
23	61782A	SLEEVE, GUIDE WHEEL	4
24	61928S	STUD STABILIZER SHORT	2
25	61940A	PLATE WLDMT, 28 UPPER	1
26	61945A	BRACKET, LIFT	2
27	71192A	LABEL, NO STEP	2
28	71457A	BOOST LABEL	2
29	80103A	BOLT, 3/8-24 X 1.0 HEX	2
30	80317A	WASHER BOWED .455 ID X .740 O.D.	4
31	81217A	NUT, 1/4-20 HEX ESNA	7
32	81220A	NUT, SERRATED FLANGE	12
33	84236A	SCREW #10-32 X .50 FH SS CR	4
34	84237A	SCREW, 10-32 X .50 P.H.	3
35	85301A	SCREW, 1/4-20 X 1 1/4 C.R.P.H.	4
36	85395A	SCREW, 1/4-20 X 1/2" P.H.	3
		BRUSHES	
[37]*	30752A	POLY BRUSH	1
[38]*	30751A	NYLON BRUSH	1
[39]*	30753A	CLEAN GRIT BRUSH	1
		PADS	
40*	997001	RED PADS (BOX OF 5)	1
[40]*	997002	WHITE PADS (BOX OF 5)	1
[40]*	997006	BLUE PADS (BOX OF 5)	1
[40]*	997000	BLACK PADS (BOX OF 5)	1
[40]*	997016	3M HIPRO (BOX OF 10)	1
[40]*	997018	3M SURFACE PREP (BOX OF 10)	1
[40]*	30794A	VELCRO 2 SIDED (AFFIXES 3M SURFACE PREP PAD TO BACKER PAD)	1
		WET SCREENS	
[41]*	997012	WET SCREENS 60 GRIT (BOX OF 10)	1
[42]*	997009	WET SCREENS 80 GRIT (BOX OF 10)	1
[43]*	997010	WET SCREENS 100 GRIT (BOX OF 10)	1
[44]*	997011	WET SCREENS 120 GRIT (BOX OF 10)	1

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HEAD ASSEMBLY - 09/2008**RH SQUEEGEE ASM**

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**LH SQUEEGEE ASM**

HEAD ASSEMBLY - 09/2008

Ref.	Part No.	Description	Qty
1#	962929	SCREW, 10-32 X 1/2" PH	5
2#	38032L	RH OUTER SQUEEGEE	1
3	61946A	RH SQUEEGEE PLATE	1
4	61947A	RH SQUEEGEE RETAINER	1
5#	80240A	SCREW, 10-32 X 1/2" F.H.	10
6	61943A	LH SQUEEGEE PLATE	1
7	61744A	LH SQUEEGEE RETAINER	1
8#	30837A	LH INNER SQUEEGEE	1
9#	30838A	RH INNER SQUEEGEE	1
10#	38031L	LH OUTER SQUEEGEE	1

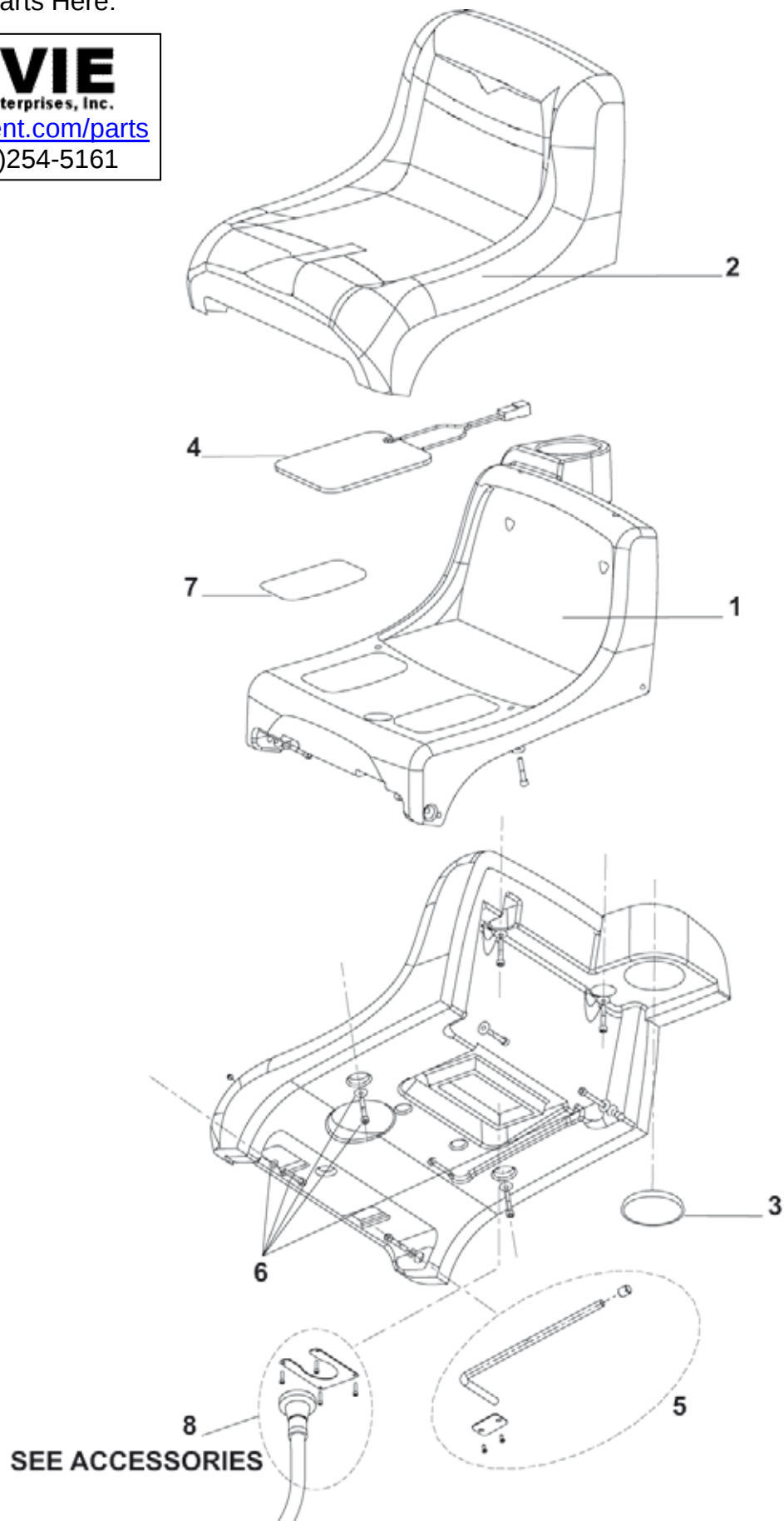
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SEAT ASSEMBLY

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SEAT ASSEMBLY - 09/2008

Ref.	Part No.	Description	Qty
1	909 6244 000	SEAT SUPPORT	1
2	909 5897 000	SEAT	1
3	909 6098 000	CAP Ø 85	1
4	909 6242 000	MICROSWITCH	1
5	909 6383 000	LEVER FITTING KIT	1
6	909 6384 000	SEAT ASSY HARDWARE KIT	1
7	909 6241 000	GUMMI PLATTE	2
8#		ACCESSORIES (SEE PAGE 110)	1

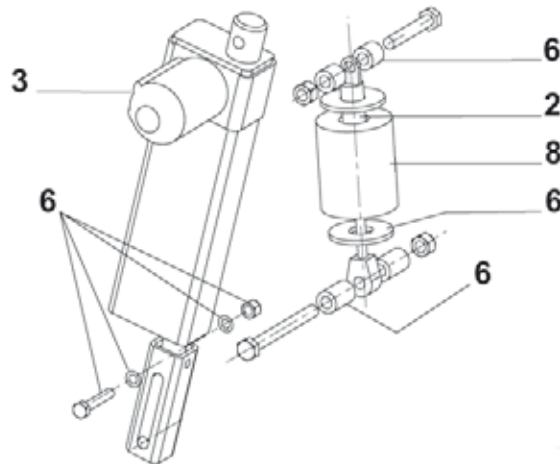
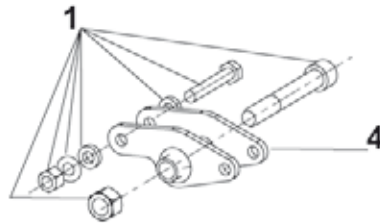
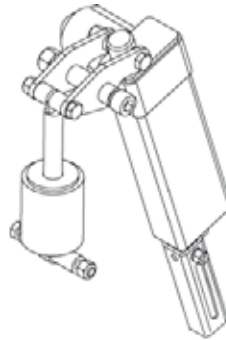
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BRUSH DECK LIFTING SYSTEM - 09/2008

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BRUSH DECK LIFTING SYSTEM - 09/2008

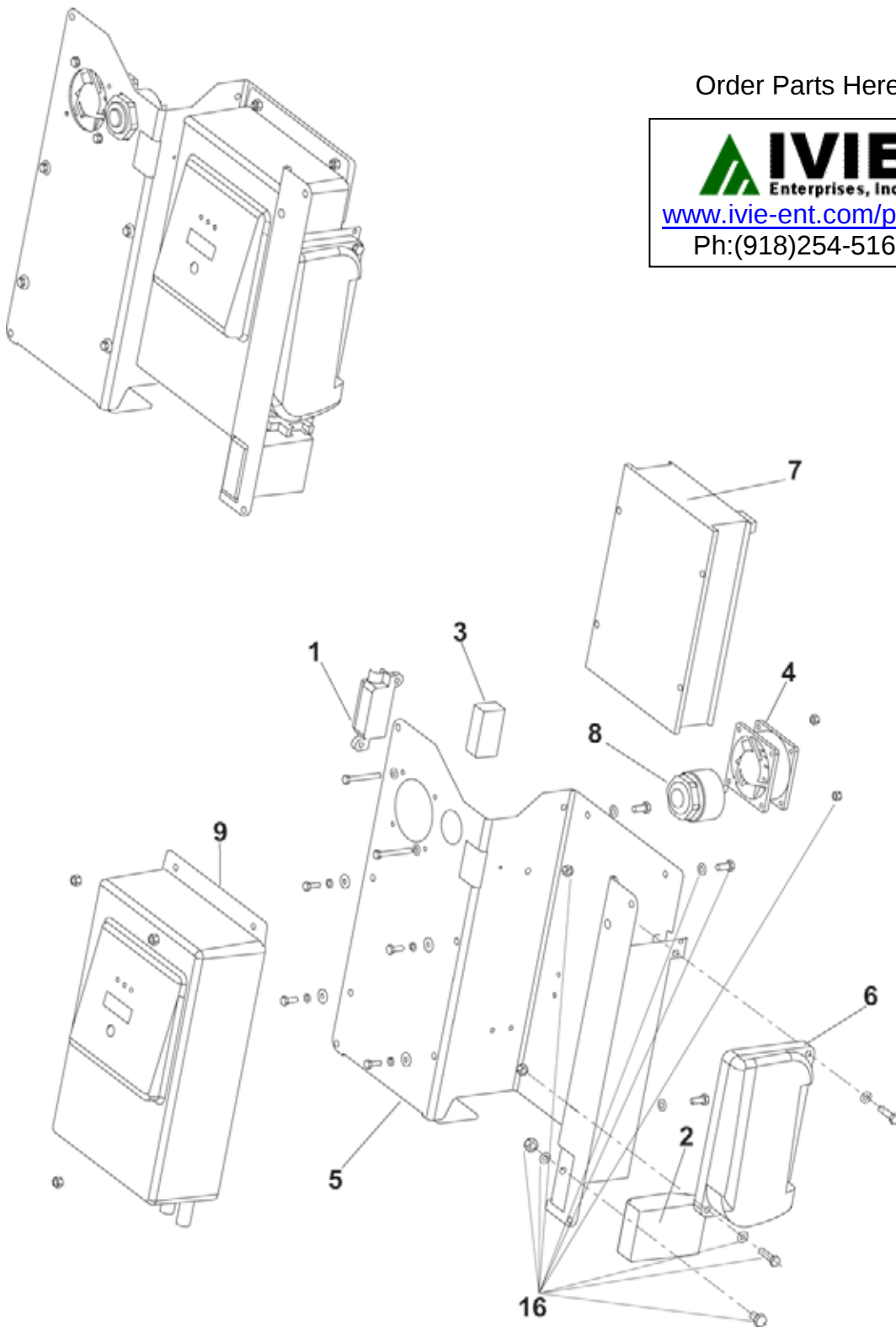
Ref.	Part No.	Description	Qty
1	909 6385 000	LEVER KIT	1
2	909 5637 000	SPRING GAS	1
3	909 6107 000	ACTUATOR 24V	1
4	909 6109 000	LEVER	1
6	909 6388 000	HARDWARE KIT	1
8	909 6117 000	SPRING	1

Order Parts Here:



ELECTRICAL COMPONENTS - 09/2008

Order Parts Here:



ELECTRICAL COMPONENTS - 09/2008

Ref.	Part No.	Description	Qty
1	145 8046 000	FUSE CARRIER	1
2	146 0659 000	FUSE CARRIER, MAXIFUSE	1
3	909 6341 000	FUSE CARRIER	1
4	909 6131 000	FAN COOLING	1
5	909 6116 000	ELECTRONIC COMPONENTS SUPPORT	1
6	9097442000	ELECTRONIC CARD, TRACTION	1
7	9097783000	ELECTRONIC CARD	1
8	909 6126 000	BUZZER 5-32V	1
9	909 6257 000	BATTERY CHARGER 24V 25A 100-115V	1
[10]	146 2141 000	FUSE 15A	1
16#	909 6363 000	FASTENER KIT	1
[17]	145 1980 000	FUSE 100A	1
[18]	145 9852 000	FUSE 5A	1
[19]	909 6218 000	FUSE 60A	1
[20]	9096926000	MACHINE HARNESS	1
[21]	909 6125 000	BATTERY HARNESS	1
[22]	909 6123 000	HARNESS ELECTRIC BOX	1
[23]	146 1986 000	CONNECTOR	1
[24]	909 6350 000	PROGRAMMER ELECTRONIC CARD TRACTION	1

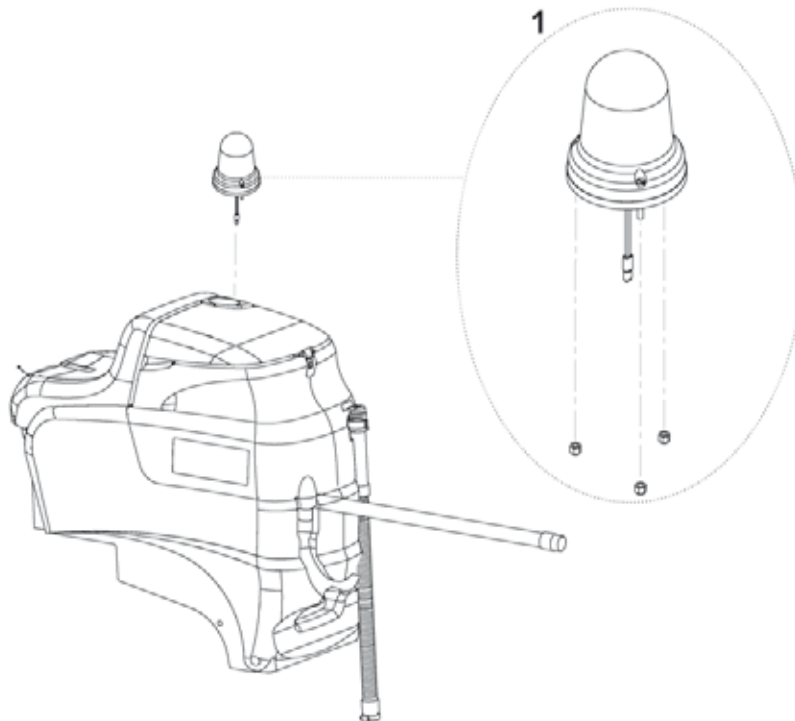
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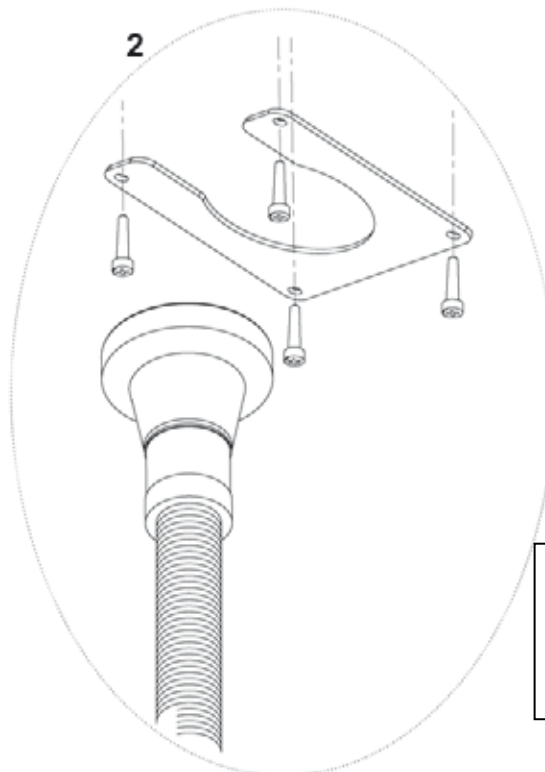
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ACCESSORIES

FLASHING BEACON KIT



WATER FEED HOSE KIT



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ACCESSORIES

Ref.	Part No.	Description	Qty
1*	146 2692 000	BEACON FLASHING ON SUPPORT KIT	1
[3]	146 2693 000	INSTALLATION INSTRUCTION F/BEACON FLASHING ON SUPPORT KIT	1
2*	909 6814 000	HOSE FILLING KIT	1
[4]	909 6816 000	INSTALLATION INSTRUCTION FOR HOSE FILLING KIT	1
[5]*	909 6340 000	SILENCER REVERSE ALARM KIT	1

Order Parts Here:



RECOMMENDED SPARE PARTS

Part No.	Description	Qty
RECOVERY TANK		
909 6489 000	GASKET VACUUM MOTOR	1
9097466000	MOTOR VACUUM KIT	1
9097399000	FILTER	1
909 6490 000	GASKET VACUUM MOTOR	1
9097393000	HOSE DRAIN BLACK	1
9097394000	HOSE VACUUM BLACK	1
909 6268 000	GASKET L=1370 MM	1
L08812968	GASKET	1
L08812373	FLOATING BALL	1
L08812259	CAGE FLOATING BALL	2
909 6380 000	HARDWARE CLAMP KIT	1
909 5371 000	CARBON BRUSH	2
CHASSIS SYSTEM		
L08812248	BUMPER ROLLER	1
145 2612 000	PULLEY	2
9097389000	WHEEL REAR D.300 BLUE	2
909 6715 000	JACK MOTOR 24V	1
909 6151 000	CABLE	1
909 6365 000	HARDWARE CABLE FIXING KIT	1
909 6718 000	CABLE SQUEEGEE KIT	1
FRONT WHEEL ASSEMBLY		
909 5942 000	BALL BEARING	1
909 5943 000	PINION STEERING	1
909 6121 000	SENSOR	1
9096931000	MOTOR WHEEL W600 24V	1
145 2330 000	GREASER NIPPLE M6	1
145 4691 000	BALL BEARING	1
9096928000	WHEEL DRIVE KIT	1
9096927000	HARNESS DRIVE WHEEL	1
MOTOR DRIVE WHEEL		
9096935000	WHEEL D.250	1
9096959000	BALL BEARING KIT	1
9096976000	SHOE BRAKE	1
9096960000	CARBON BRUSH KIT	1
9096966000	BRAKE ELECTRICALLY RELEASED	1
STEERING SYSTEM		
909 6074 000	CABLE	1
146 2458 000	LEVER	1
145 9290 000	SPRING	1
CONTROL PANEL ASSEMBLY		
146 2888 000	SWITCH KEY WITH CAP	1
146 1727 000	SWITCH EMERGENCY	1
146 1728 000	CONTACT NC.	1
9097335000	PANEL CONTROL	1
146 2655 000	SWITCH FORWARD-REVERSE SPEED	1
909 6077 000	CARD ELECTRONIC	1
9097782000	DECAL CONTROL PANEL	1
909 6079 000	GASKET	1
146 2887 000	KEY (2PCS)	1
PEDAL ASSEMBLY		
146 2606 000	HARNESS PEDAL	1
9097518000	PEDAL COMPLETE KIT	1
SOLUTION SYSTEM		
909 6389 000	CAP F 1/2 KIT	1
909 6390 000	HOSE KIT	1
909 5215 000	NET & GASKET WATER FILTER	1
9096954000	VALVE	1
909 5205 000	SOLENOID VALVE 24V	1
909 5207 000	FILTER WATER	1
909 6328 000	HOSE L=730MM	1
9097544000	SENSOR PRESSURE	1

Order Parts Here:



RECOMMENDED SPARE PARTS

Part No.	Description	Qty
SQUEEGEE SYSTEMS		
909 6223 000	HANDWHEEL M8X45	1
909 6394 000	SQUEEGEE LATCH KIT	1
9096973000	TENSION ROD FITTING KIT	4
L08603880	KIT BUMPER ROLLER	1
9097667000	KIT SQUEEGEE 34"	1
L08603675	THUMB NUT SQUEEGEE FIXING	2
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30794A	VELCRO 2 SIDED (AFFIXES 3M SURFACE PREP PAD TO BACKER PAD)	1
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