



E29941-00 E29943-00  
E29942-00



# STEALTH™ ASC20BT

20" Cylindrical Scrubber  
with Traction Drive



Operator and Parts  
Manual

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# RECEIVING THE MACHINE

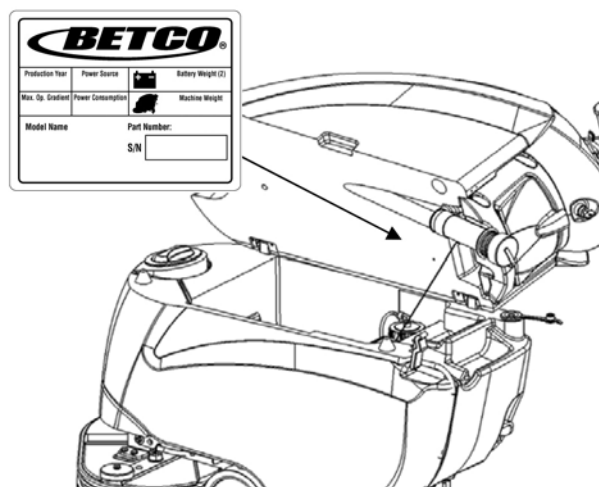
Immediately check, when receiving the machine, that all the materials indicated on delivery documents have been received and also that the machine has not been damaged in transit. If it has been damaged, this damage must be immediately reported to the shipper and also to our customer's service department. Only acting promptly in this manner will make it possible to receive missing material and to be compensated for damage.

## INTRODUCTION

This is an automatic scrubber which, via the mechanical action of the rotating brush and the chemical action of a water/detergent solution, can clean many types of hard flooring. As it advances, it also collects the dirt removed and the detergent solution not absorbed by the floor.

**The machine must be used only for this purpose.** Even the best machines will only work well if used correctly and kept in good working order. We therefore suggest you read this instruction booklet carefully and re-read it whenever difficulties arise while using the machine. Please contact our technical service department or your dealers if you have any questions about the machine.

## Serial # Plate

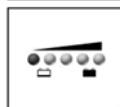


## SYMBOLS USED ON THE MACHINE



### Solution valve symbol

Used to indicate the water regulation switch



### Battery charge gauge

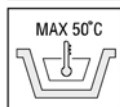


### Battery symbol



### Open book symbol

Used to tell the operator to read the manual before using the machine



### Maximum solution temperature gauge

Located near the solution tank inlet

| <b>TECHNICAL DESCRIPTION</b>             | <b>Measurement Unit</b> | <b>Stealth™ ASC20BT</b> |
|------------------------------------------|-------------------------|-------------------------|
| Working Width                            | Inches                  | 20                      |
| Work Capacity                            | Sq. Ft. / Hr.           | 24,000                  |
| Brush Diameter                           | Inches                  | 20                      |
| Brush RPM                                | RPM                     | 800                     |
| Brush Pressure                           | Lbs. (Kg)               | 100 (45)                |
| Brush Motor                              | V / HP / W              | 24 / 0.75 / 560         |
| Drive Type                               |                         | Automatic               |
| Traction Motor                           | V / HP / W              | 24 / 0.20 / 150         |
| Forward Speed                            | MPH (km/h)              | 1.9 (3)                 |
| Maximum Grade                            |                         | 10%                     |
| Vacuum Motor                             | V / HP / W              | 24 / 0.5 / 310          |
| Vacuum Motor Suction                     | Millibar                | 188                     |
| Solution Tank Capacity                   | Gallons (L)             | 16 (60)                 |
| Recovery Tank Capacity                   | Gallons (L)             | 19 (72)                 |
| Weight of Machine (excluding batteries)  | Lbs. (Kg)               | 253.5 (115)             |
| Battery Charger                          | V / A                   | 24 / 12                 |
| Machine Dimensions (Length/Width/Height) | in x in x in            | 54 x 42 x 22            |
| Noise Level                              | dBA                     | 58                      |

# GENERAL SAFETY REGULATIONS

**The regulations below must be carefully followed in order to avoid harm to the operator and damage to the machine.**

- Read all labels on the machine carefully. Do not cover them for any reason and replace them immediately if they become damaged.
- The machine must be used exclusively by authorized and trained personnel.
- When operating the machine be careful of other people.
- The machine is not designed for cleaning carpets.
- The power cable outlet must be provided with a proper ground.
- Avoid damaging the power cable of the battery charger by crushing, bending, cutting or stressing it.
- Whenever the power cable of the battery charger is damaged, immediately contact a BETCO service center.
- Do not mix different types of detergent as this may produce harmful gases.
- Do not set containers on the machine.
- Machine storage temperature is between -10°F and 130°F, never store outside under humid conditions.
- Operating conditions: room temperature between 33°F and 100°F with relative humidity between 30% to 95%.
- Only use the machine in closed areas and do not expose it directly to rain.
- Never use the machine in an explosive environment.
- Do not use the machine as a means of transport.
- Never use acidic chemicals which could damage the machine.
- Avoid running the brushes with the machine stopped; this could damage the floor.
- Never vacuum up flammable liquids.
- Never use the machine to gather dangerous powders.
- Use a powder fire extinguisher in case of fire. Do not use water.
- Do not hit against shelving or scaffolding. The operator must always be equipped with the appropriate safety device (gloves, shoes, helmet, glasses, etc.)
- Do not use the machine on surfaces with an inclination greater than the one shown on the serial plate.
- The machine is designed to wash and dry floors simultaneously. Signal the presence of wet floors with suitable signs.
- If the machine does not work properly, perform routine maintenance. Otherwise, request the assistance of the BETCO technical service.
- When replacing parts ask for ORIGINAL spare parts from your Authorized BETCO Dealer and/or Retailer.
- Always turn off the machine and disconnect the battery connector whenever maintenance is performed.
- Never remove guards that require tools for removal.
- **Never wash the machine with direct or pressurized jets of water or with corrosive substances.**
- Have your BETCO service center check the machine once a year.
- To prevent the formation of scale in the solution tank filter, do not store the machine with detergent solution in the tanks.
- Before using the machine make sure that all doors and covers are positioned as shown in this operating and maintenance manual.
- When your BETCO machine is ready to be retired, the machine must be disposed of properly. It contains oils and electronic components. The machine was built using totally recyclable materials.
- Use only brushes furnished with the machine or those specified in the user's manual. Use of other brushes can compromise safety.
- When removing the battery, unplug the battery connection, unplug the charger and disconnect the battery terminals.
- Before recycling the machine, remove the battery.

# MACHINE PREPARATION

## 1. HANDLING THE PACKED MACHINE

The machine is contained in specific packaging.

It is not possible to place more than two packages on top of each other.

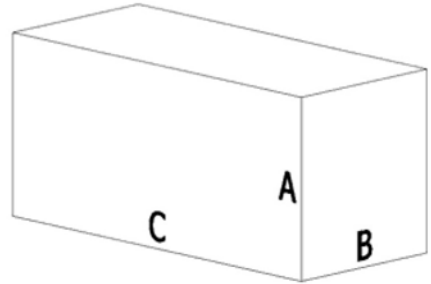
The total weight is 253.5 lbs. (115 kg).

The overall dimensions of the package are:

A : 49.6 in (1260 mm)

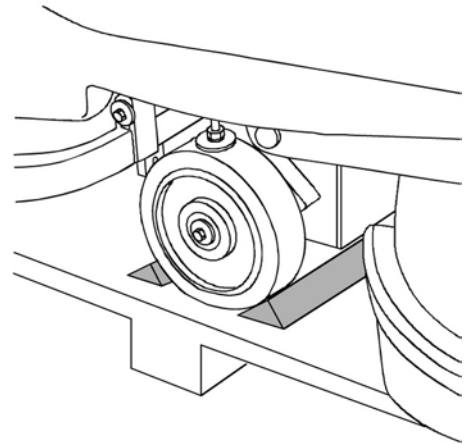
B : 28.4 in (720 mm)

C : 65.4 in (1660 mm)

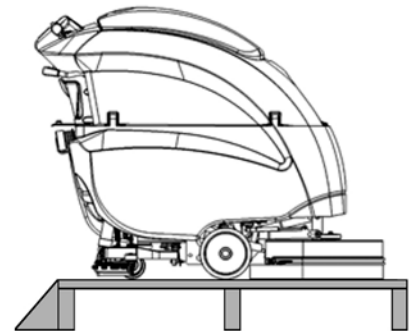


## 2. HOW TO UNPACK THE MACHINE

- A. Remove the outer packaging.
- B. The machine is attached to the pallet with wedges which block the wheels.
- C. Remove these wedges.



- D. Use a ramp to get the machine down from the pallet, pulling it backwards.
- E. Keep the pallet for any future transport needs.



# MACHINE PREPARATION

## 3. BATTERY INSTALLATION

The machine will be supplied with a battery charger and either two 12 V Wet or AGM batteries. The batteries must be housed in the battery tray in the battery compartment beneath the recovery tank.

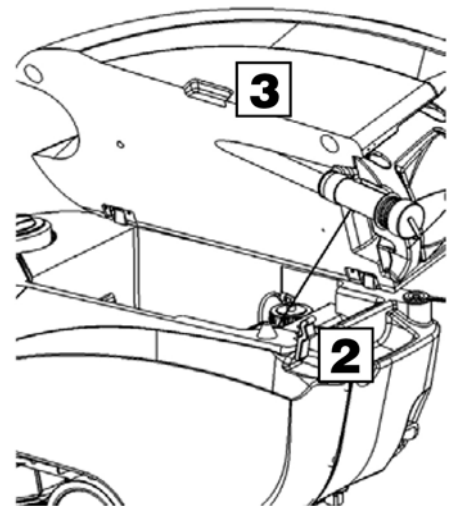
To insert the batteries you must:

- A. Lower the squeegee and base.
- B. Open the rear latch that secures the tank (2).
- C. Rotate the recovery tank as far as it will go, using the side handle (3).



**WARNING:** To avoid acid spillage you can use sealed batteries.

**WARNING:** Perform one battery charging cycle before using the machine.



## 4. TYPE OF BATTERY

To power the machine you can use:

- Wet batteries
- AGM batteries
- Gel batteries

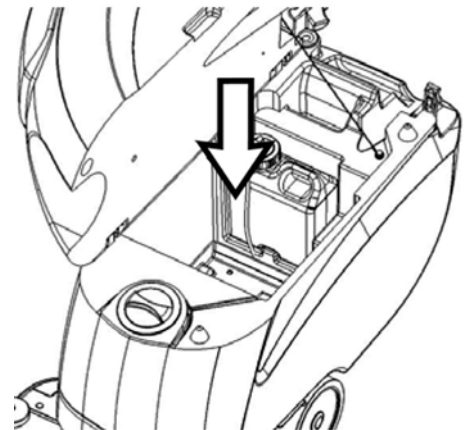
OTHER TYPES MUST NOT BE USED.

The maximum dimensions and weight are:

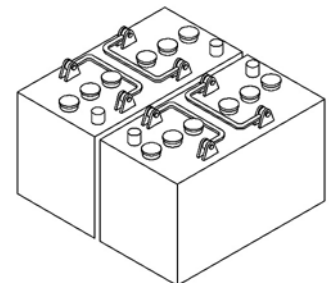
Width 6.8 in. (172 mm)  
Length 14.2 in. (360 mm)  
Height 11.2 in. (285 mm)  
Weight 97 lb. (44 kg)



**WARNING:** Your charger must be set according to the type of battery you install. Call BETCO customer service to ensure correct charger setting after replacement batteries are installed.



- The batteries must be handled using lifting and transportation means suitable for the weight and dimensions.
- They must be lifted by the handles on the upper part.
- They must be connected together in series, to obtain an overall voltage of 24 V on the lugs.
- The electrical connection operations must be carried out by certified trained personnel.



# MACHINE PREPARATION

## 5. BATTERY MAINTENANCE

For maintenance and recharging, follow the instructions provided by the battery manufacturer.

## 6. BATTERY DISPOSAL

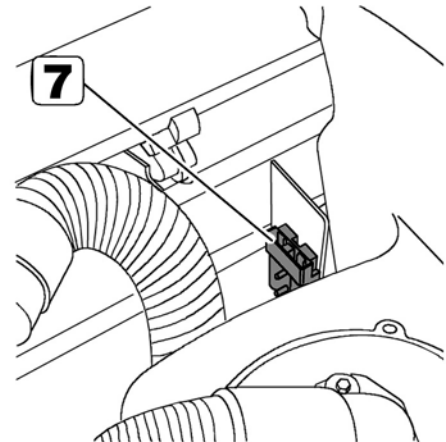
When the battery reaches the end of its life, it must be disconnected by certified professional, then lifted (using the handles and suitable lifting device) to remove it from the battery compartment.

## 7. CONNECTING THE BATTERY CHARGER

Beneath the recovery tank there is the battery connector (7), the battery charger connector must be plugged into. Disconnect the battery plug and plug the charger into the machine plug.



**WARNING:** This process must be carried out by qualified personnel. The incorrect or imperfect connection of the cables to the connector can seriously harm people and damage objects.



## 8. RECHARGING THE BATTERIES

Perform one complete battery charge cycle before using the machine. Avoid totally discharging the batteries! This can cause permanent damage. Recharge as soon as the battery discharged signal light starts to flash.



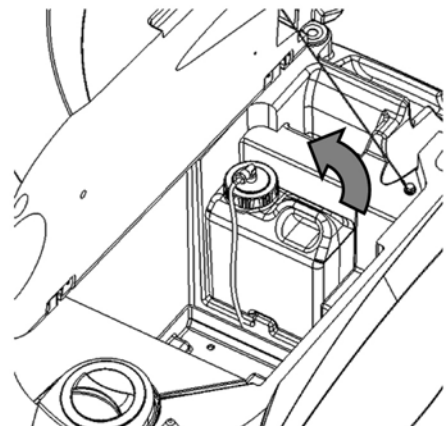
**WARNING:** Never leave the batteries completely discharged, not even if the machine is not being used. This can cause permanent damage to them. While recharging, keep the recovery tank raised.



**Danger of inhalation of gas and leakage of corrosive liquids.**



**Danger of fire.**

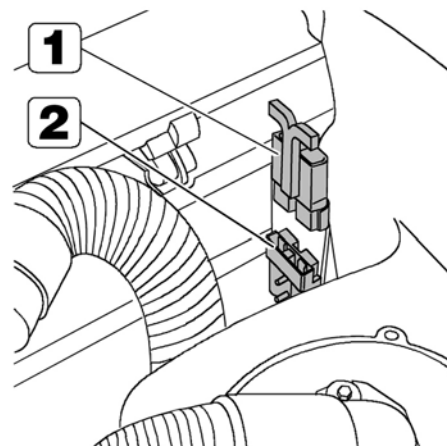




# MACHINE PREPARATION

## 9. CONNECTING THE BATTERY CONNECTOR

Connect the battery connector (2) to the machine connector (1)

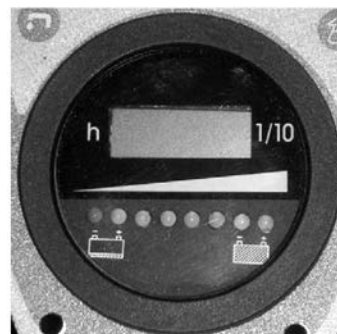


## 10. BATTERY INDICATOR

The battery indicator uses LEDs and has 8 positions (7 yellow - charged batteries, and 1 red - run down batteries).



***WARNING: A few seconds after the red indicator light comes on, the brush motor turns off automatically. The vacuum motor will remain in operation so that the remaining water can be removed from the floor.***

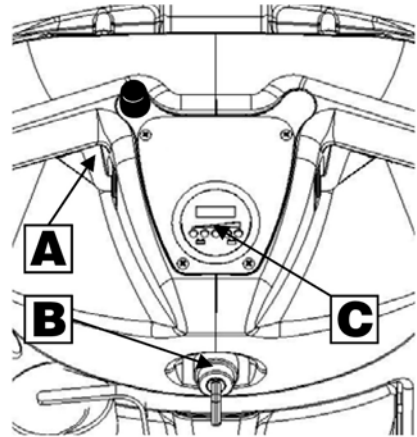


# MACHINE PREPARATION

## 11. INSTRUMENT PANEL COMPONENTS

The instrument panel components are identified as follows:

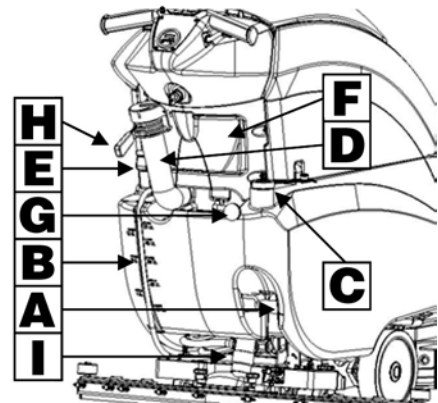
- A. Paddles to activate brushes / traction (located beneath the grip)
- B. ON/OFF key switch
- C. Battery level / hour meter



## 12. REAR COMPONENTS

The rear components are identified as follows:

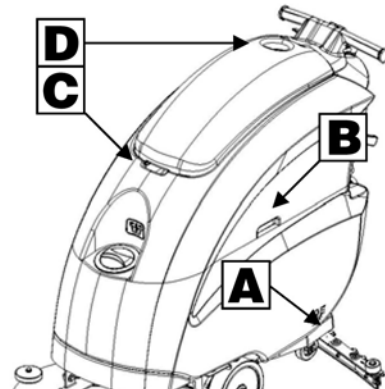
- A. Pedal to raise the brushes
- B. Water level tube
- C. Solution tank water inlet cap
- D. Drain hose of recovery tank
- E. Latch to lock down the recovery tank
- F. Storage compartment
- H. Lever to raise the squeegee
- I. Brake lever
- J. Solution filter



## 13. SIDE COMPONENTS

The side components are identified as follows:

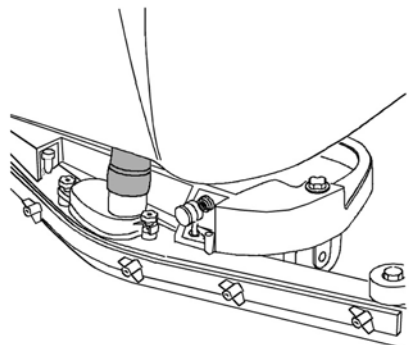
- A. Solution flow control valve
- B. Handle to raise the recovery tank
- C. Handle to raise the vacuum unit
- D. Upper storage compartment



## 14. ASSEMBLING THE SQUEEGEE

For packaging reasons, the squeegee is supplied disassembled from the machine, and must be assembled as shown in the figure, inserting the small pin of the squeegee into the coupling mechanism until it locks into place.

Install the squeegee vacuum hose over the squeegee shoe adapter and be certain that the vacuum hose in to the right of the squeegee lift cable.

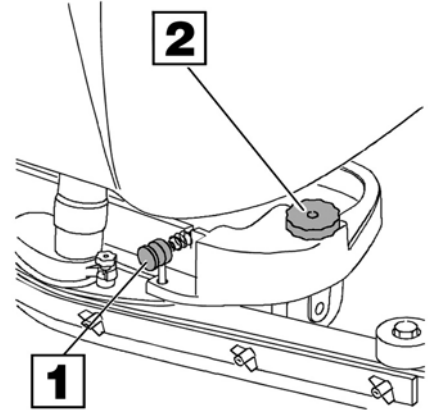


# MACHINE PREPARATION

## 15. ADJUSTING THE SQUEEGEE HEIGHT

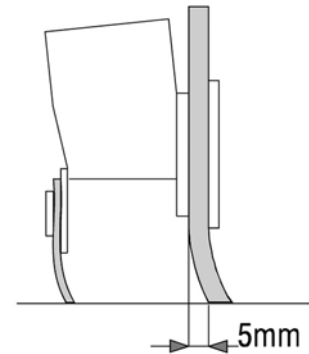
The height of the squeegee must be adjusted based on wear of the squeegee. To do this, turn the knob (2) counter clockwise to raise the squeegee, and clockwise to lower it.

**Note:** the right and left wheels must be adjusted to the same level, so the squeegee works parallel to the floor.



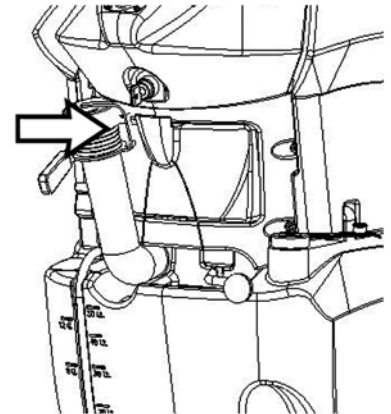
## 16. ADJUSTING THE SQUEEGEE INCLINATION

During working operation, the rear squeegee blade is slightly bent backwards (by about 0.2 in (5 mm)) uniformly over its entire length. If it's necessary to increase the bend of the squeegee blade in the center, you must tilt the squeegee backwards, rotating the adjuster (1) counter clockwise. To increase the bend of the squeegee at the outside edges of the squeegee, rotate the adjuster clockwise. After adjustment, tighten the jam nut.



## 17. RECOVERY TANK

Check the drain hose cap (on the rear of the machine) to ensure it's closed.



# MACHINE PREPARATION

## 18. SOLUTION TANK

Remove the front inlet cap and check the solution filter is correctly installed. Check the solution filter cover (beneath the tank) is correctly closed.

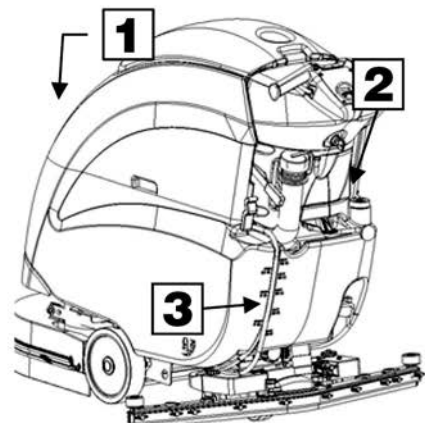
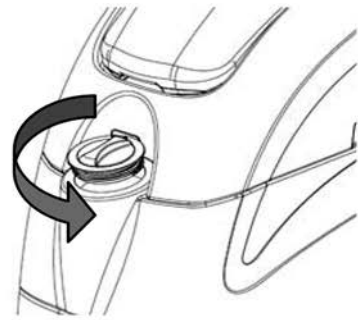
## 19. SOLUTION TANK

- Fill the tank with clean water in the front fill location (1) or at the rear fill location (2) at a temperature not exceeding 120°F (50°C).
- You can check the level of solution in the tank by means of the rear sight gauge (3).
- Add the liquid detergent into the tank, in the concentration and manner specified by the manufacturer. The formation of excess foam could damage the vacuum motor, so be sure to use only the correct amount of detergent.



**WARNING: Always use low-foam detergent. Introduce a small amount of defoaming liquid in the recovery tank before starting to work to prevent foam from being generated.**

**WARNING: Never use pure acids.**



## 20. ASSEMBLING THE BRUSHES

- A. Use the side parking brake lever to stop the machine.
- B. Make sure that the key switch is in the "0" position
- C. Raise the brush head by means of the appropriate pedal
- D. Loosen the wing nut (1)
- E. Rotate the side splash guard (2).
- F. Remove the splash guard (3)
- G. Remove the idle hubs
- H. Insert the brush (the side with 5 teeth) in the tunnel until it is coupled with the dragging device hub.
- I. Insert the idle hub of the mobile support in the brush (the side with 6 teeth).
- J. Repeat the operation for the second brush.
- K. Reassemble the side splash guard (3).
- L. Rotate the side splash guard (2).
- M. Fix the wing nut (1).

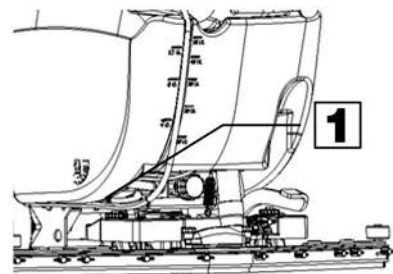
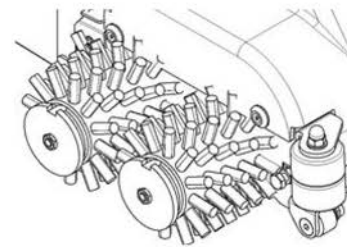
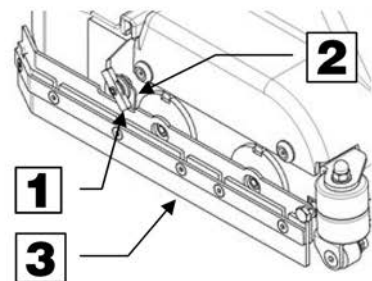
- Take care not to mix up the brushes, the blue brush should always be placed in the rear idle hub.
- Take care how the brushes are mounted, the assembly is correct if the direction of the bristles form an X looking from above.



**WARNING: you are advised to always wear protective gloves in order to avoid the risk of serious injury to your hands**

## 21. REGULATING THE SOLUTION

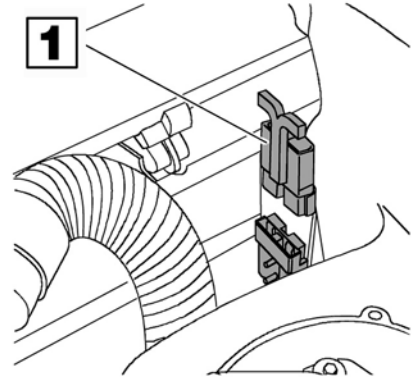
Regulate the quantity of water with the solution control valve (1).



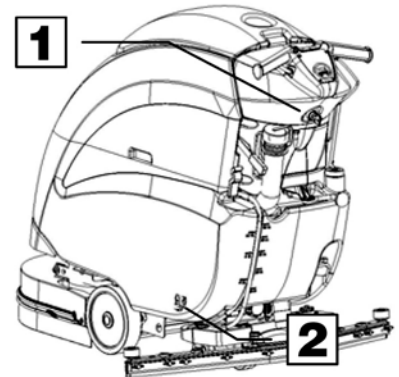
# OPERATION

## 1. PREPARING TO WORK

A. Connect the battery plug (1) to the machine plug



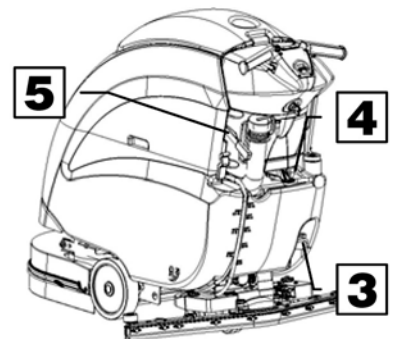
B. Turn the key (1) of the main switch to the "ON" position (clockwise). The battery charge level indicator lights will immediately come on.



C. Turn on the solution control valve (2) (solution dispenses automatically while the brushes are turning).

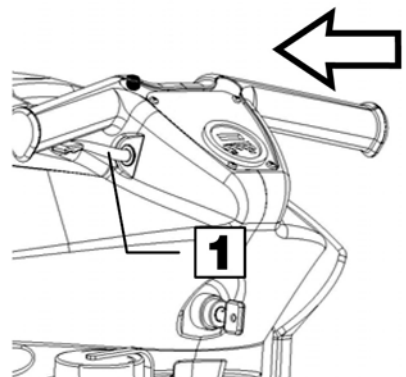
D. Release the foot lever (3) and lower the brush deck. If the floor is particularly dirty, you can apply additional pressure to the brush deck by raising the foot lever (3) until the lock down is engaged.

E. Lower the squeegee, turning the lever (4) counter clockwise. The vacuum motor will switch on.



F. Check that the brake (5) is released.

G. Pulling the switch levers (1), activates the brushes and the machine begins to move forward. During the first few feet, check that the amount of solution is correct, and that the squeegee dries the floor.



H. The machine will now start to scrub and dry until the solution tank is empty or recovery tank is full.

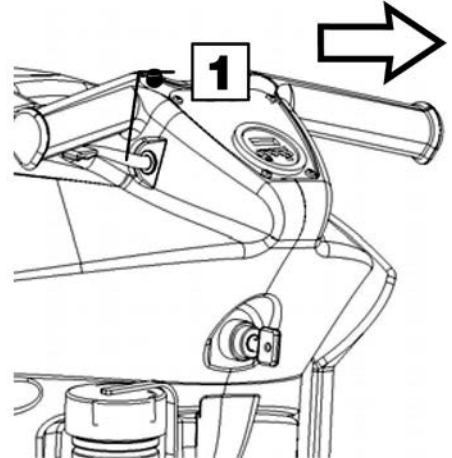
# OPERATION

## 2. REVERSE MOVEMENTS

To move in the reverse direction, push the switch levers (1) forward.



**WARNING:** When making reverse movements, raise the squeegee.



## 3. OVERFLOW DEVICE

The machine has a float in the filter basket that activates when the recovery tank is full and stops airflow into the vacuum.

You must empty the recovery tank by removing the cap of the rear drain hose.



**WARNING:** Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.



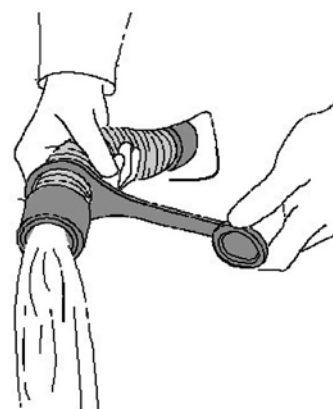
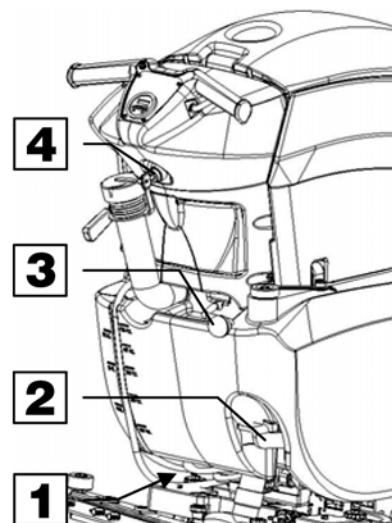


# SHUTTING DOWN THE MACHINE

## 1. END OF WORK

When shutting down the machine and before you perform any type of maintenance:

- A. Turn off the solution control valve using the handle (1)
  - B. Raise the brush deck using the foot lever (2)
  - C. Raise the squeegee using the squeegee lift lever (3)
  - D. Turn off the key switch (4)
  - E. Move the machine where the tanks can be drained.
- F. Remove the drain hose from its holder, unscrew the drain cap and empty the recovery tank.
- G. The squeegee must be raised when the machine is not operating, to avoid deforming the squeegee blade blades.
- H. Remove the pads and clean them with water.

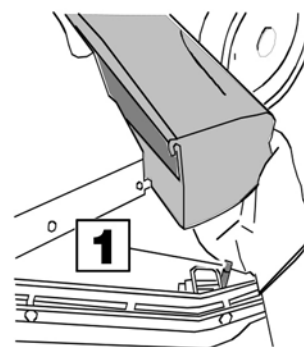


**WARNING:** Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.

## 2. EMPTYING THE DUST HOPPER

Empty the hopper after work and before performing any type of maintenance, to do so proceed as follows:

- A. Push the knob (1) toward the rear of the machine and release the left side splash guard.
- B. Remove the hopper, empty and clean it thoroughly.
- C. Return the hopper.
- D. Reassemble the side splash guard.
- E. Raise the brush head at the end of work to avoid deforming the brushes.



**WARNING:** Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.

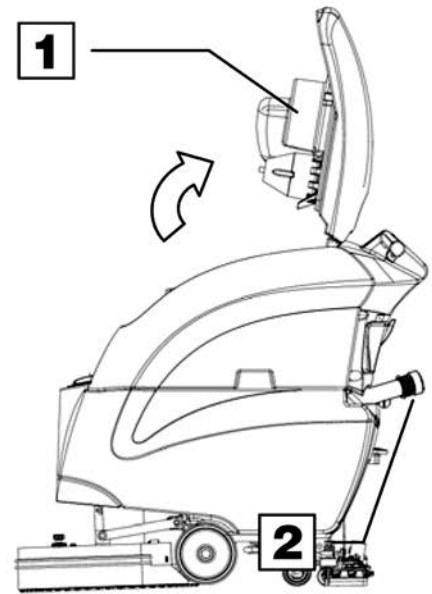
# DAILY MAINTENANCE

## 1. CLEANING THE RECOVERY TANK

- A. Raise the vacuum unit (1).
- B. Remove the drain hose (2) and empty the tank.
- C. Rinse the inside of the tank with water.
- D. Close the vacuum unit on the machine and replace the drain hose cap and drain hose.



**WARNING:** Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.

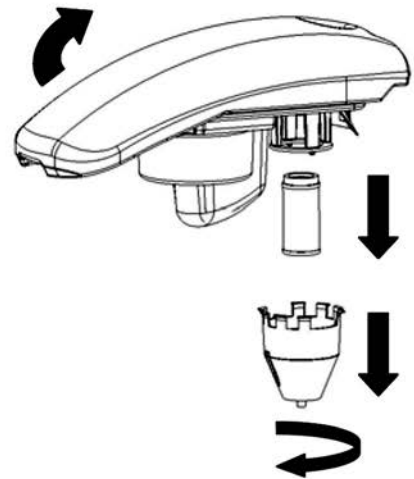


## 2. CLEANING THE VACUUM FILTER

- A. Raise the vacuum unit.
- B. Remove the vacuum filter cover by rotating it clockwise.
- C. Pull the filter straight down from the lid to remove it.
- D. Use water to clean the walls and base of the filter.
- E. Reassemble all the components.



**WARNING:** Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.

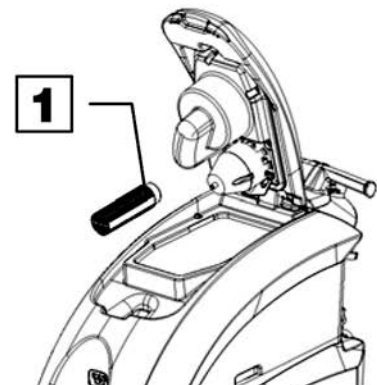


## 3. CLEANING THE VACUUM HOSE FILTER

- A. Raise the vacuum unit.
- B. Rotate the inner filter (1) and remove it.
- C. Use water to clean the walls and base of the filter.
- D. Reassemble all the components.



**WARNING:** Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.





# DAILY MAINTENANCE

## 4. CLEANING THE SQUEEGEE

Ensure the squeegee is always clean, to improve drying results.

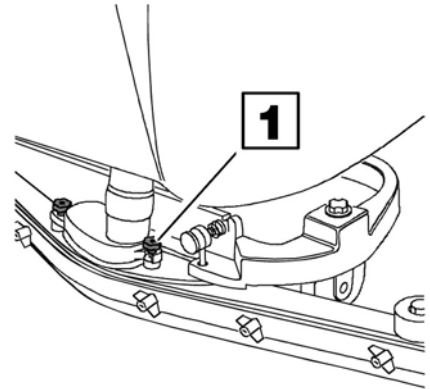
To clean:

- A. Remove the squeegee vacuum hose from the squeegee shoe adapter.
- B. Remove the cotter pins that attach the pins of the squeegee shoe.
- C. Disassemble the squeegee from its support.
- D. Loosen the wing nuts (1).
- E. Remove the squeegee band clamp and squeegee blade.
- F. Replace the squeegee blades.

To reassemble the squeegee, repeat the operations in the reverse order.



**WARNING:** Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.



## 5. DISASSEMBLING THE BRUSH

To remove the brushes:

- A. Turn the key to position "0".
- B. Apply the parking break using the side lever (1).

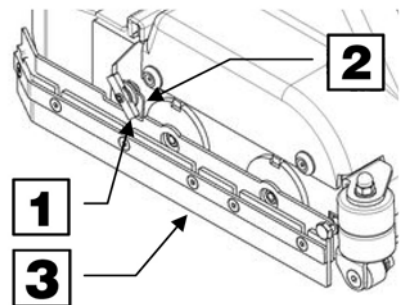
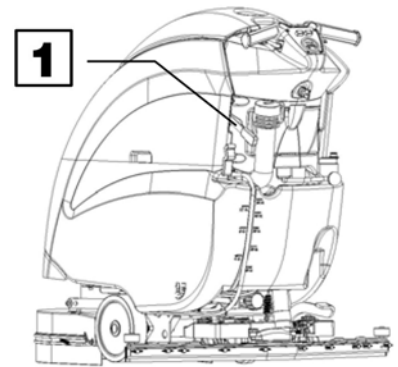


**ATTENTION:** Before performing any maintenance, remove the keys from the panel and disconnect the batteries.

- C. Loosen the wing nut (1).
- D. Rotate the side splash guard (2) and remove the side skirt (3).
- E. Remove the idle hubs.
- F. Remove the brushes and clean them.



**WARNING:** This operation must be carried out wearing protective gloves to protect against contact with dangerous solutions.



## 6. REPLACING THE SQUEEGEE BLADES

Check the state of wear of the squeegee blades and, if necessary, replace them.

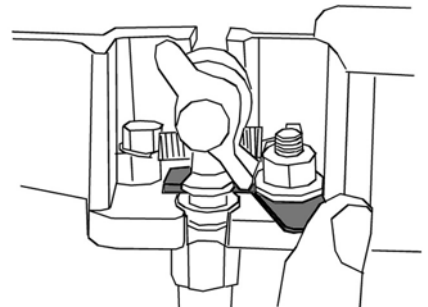
To replace:

- A. Remove the squeegee hose from the squeegee shoe adapter.
- B. Push the release lever and release the right hand stud.
- C. Remove the squeegee vacuum from the squeegee yoke.
- D. Loosen the wing nuts.
- E. Remove the squeegee band clamp and squeegee blade.
- F. Replace the squeegee blades.

To reassemble the squeegee, repeat the operations in the reverse order.



**WARNING:** Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.



# WEEKLY MAINTENANCE

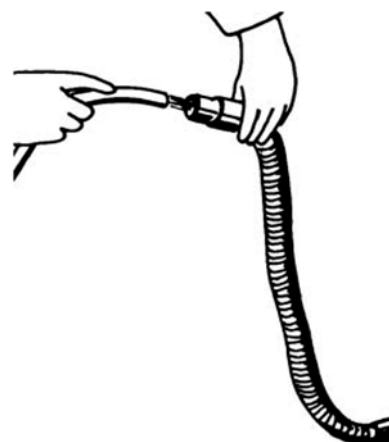
## 1. CLEANING THE SQUEEGEE HOSE

Every week, or whenever vacuum seems to be unsatisfactory, check the squeegee hose for obstructions. To clean:

- A. Remove the hose from the squeegee shoe adapter on the squeegee shoe.
- B. Remove the other end from the recovery tank.
- C. Wash the inside of the hose with water from the end of the hose which is connected to the recovery tank.
- D. Reassemble the hose.

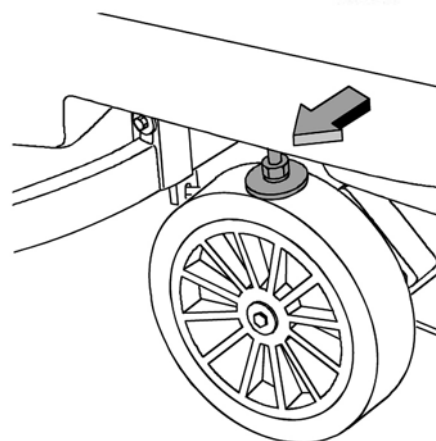


**WARNING:** Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.



## 2. CHECKING THE BRAKE

Every week, check the distance between the brake pads and the wheels. If necessary, adjust them, so the pads are 0.12 inches away from the transport wheels at a distance of 0.12 in (3 mm) when released.

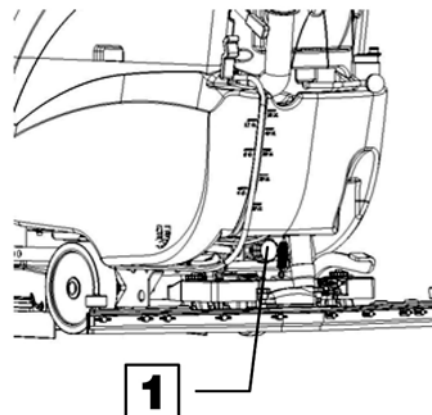


## 3. CLEANING THE SOLUTION TANK

- A. Loosen the solution tank cap.
- B. Rinse with water.
- C. Loosen the drain cap (1) located on the filter, and empty the tank.



**WARNING:** Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.



# TROUBLESHOOTING GUIDE

## INSUFFICIENT WATER ON THE PAD

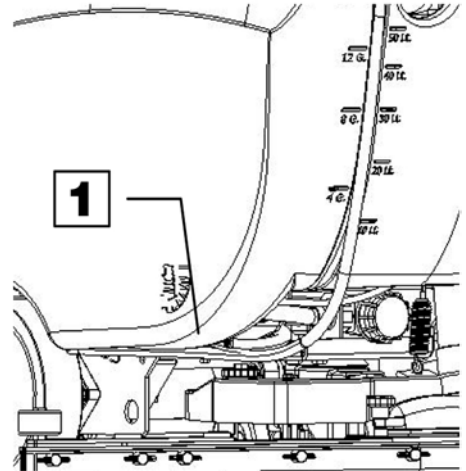
1. Verify that the solution control valve – located beneath the symbol – (1) is turned on.
2. Verify that there is water in the solution tank.

## THE MACHINE DOES NOT CLEAN WELL

1. Check the state of wear of the scrubbing pad and, if necessary, replace it.
2. Use a different kind of scrubbing pad.

## THE SQUEEGEE DOES NOT DRY THE FLOOR

1. Ensure that the squeegee blades are clean.
2. Adjust the inclination of the squeegee.
3. Ensure the vacuum hose is correctly installed.
4. Check the inner filter of the recovery tank to ensure it is not dirty and, if necessary, clean it thoroughly.
5. Disassemble the entire vacuum unit and clean it.
6. Replace the squeegee blades, if worn.
7. Ensure the vacuum motor is turned on.
8. Check squeegee wheel adjustment.



## TOO MUCH FOAM IS GENERATED

Check that low-foam detergent is being used. If necessary add a small amount of defoamer liquid to the recovery tank. Remember that more foam is generated when the floors are not very dirty. Dilute the detergent more when cleaning floors that are not very dirty.

---

## CHOOSING AND USING THE BRUSHES

### POLYPROPYLENE BRUSH (PPL)

Used on all types of floors. Good resistance to wear and tear, and hot water (no greater than 140°F (60°C)).

### NYLON BRUSH

Used on all types of floors. Excellent resistance to wear and tear and hot water (even over 140°F (60°C)).

### ABRASIVE BRUSH

The bristles of this type of brush are coated with highly aggressive abrasives. It is used to clean very dirty floors. To avoid floor damage work only with the brush pressure necessary.

### THICKNESS OF THE BRISTLES

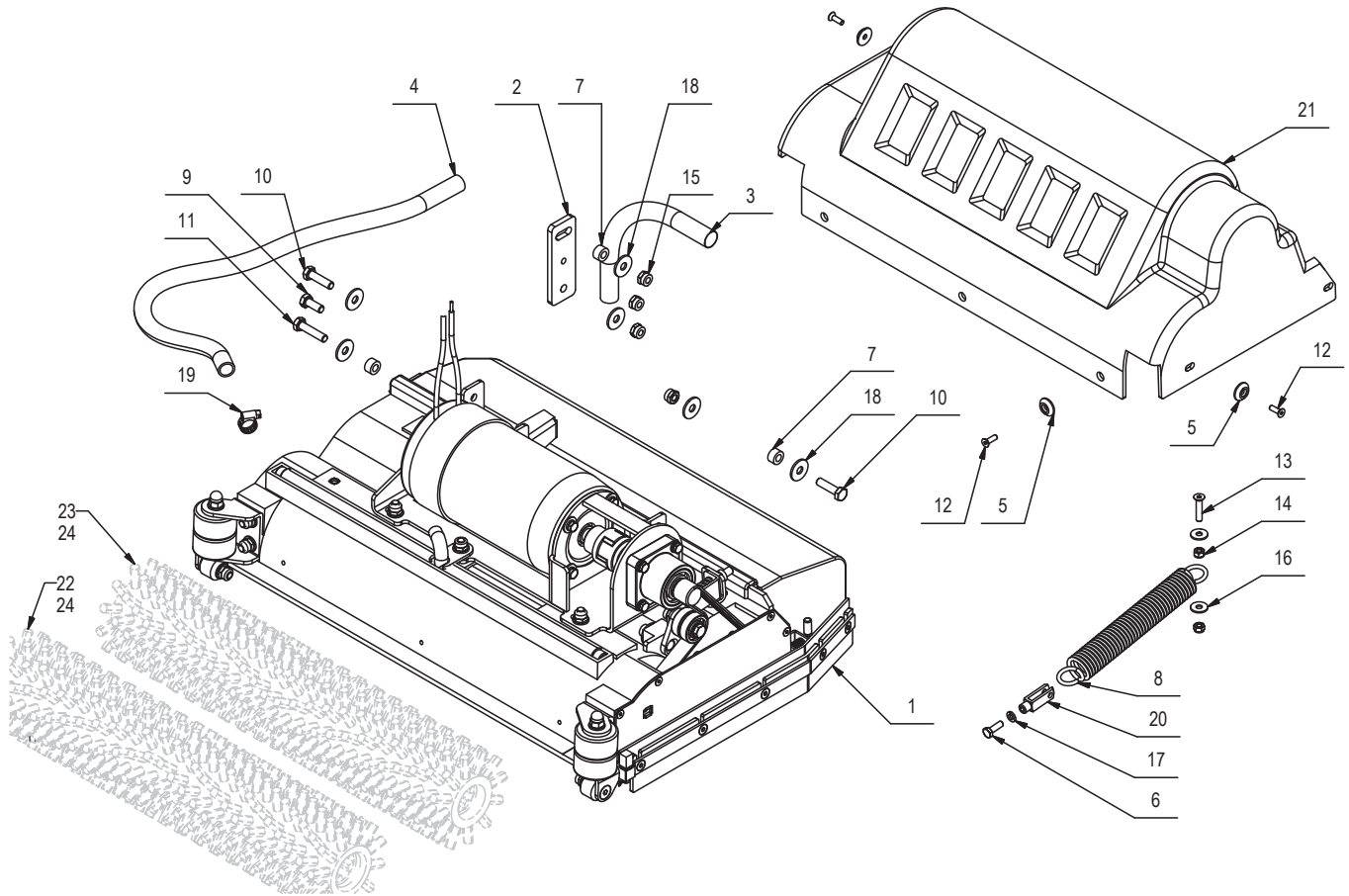
Thicker bristles are more rigid and are therefore used on smooth floors or floors with small joints. On uneven floors or those with deep joints, it is advisable to use softer bristles which can enter the gaps easier. When the bristles are worn and too short, they will become rigid and are no longer able to penetrate and clean deep down and the brushes tends to jump.

### PAD DRIVER

Pad Holders and scrub pads are recommended for cleaning smooth surfaces. There are two types of pad holder:

1. The traditional pad holder has a series of anchor points that allow the abrasive floor pad to be held and dragged while working.
2. The CENTER LOCK type pad holder not only has anchor points, but also a snap-type central locking system made of plastic that allows the abrasive floor pad to be centered and held without any risk of it becoming detached. This type of pad driver is recommended above all for machines with more than one brush.

# BRUSH DECK DIAGRAM

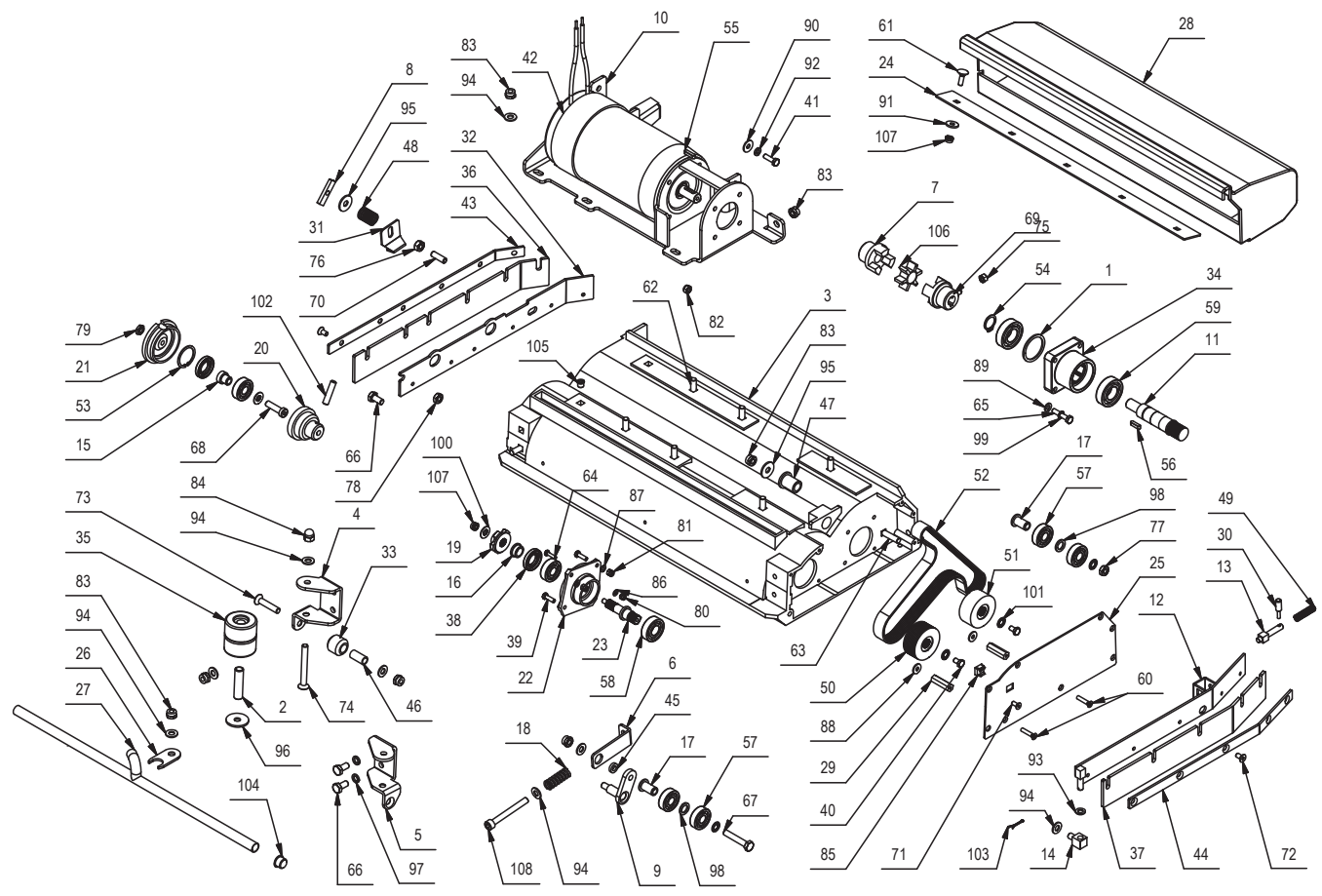


## BRUSH DECK PARTS LISTING

| Item# | Part # | Description                        | Qty. |
|-------|--------|------------------------------------|------|
| 1     | E22156 | Brush Base Assembly                | 1    |
| 2     | E22157 | Mounting Plate                     | 1    |
| 3     | E22158 | Sheath                             | 2    |
| 4     | E22159 | Solution Tube                      | 1    |
| 5     | E83850 | Flat Washer M5x20 SS               | 7    |
| 6     | E20088 | Hex Bolt M6x18 Zinc                | 1    |
| 7     | E83932 | Bushing                            | 3    |
| 8     | E22160 | Spring                             | 1    |
| 9     | E81917 | Bolt, Hex, M8x20, Zinc             | 1    |
| 10    | E83802 | Hex Bolt M8x30 Zinc                | 2    |
| 11    | E83801 | Hex Bolt M8x35 Zinc                | 1    |
| 12    | E20290 | Flat Hd Soc Machine Screw M5x16 SS | 7    |

| Item# | Part # | Description                                | Qty. |
|-------|--------|--------------------------------------------|------|
| 13    | E81773 | Screw                                      | 1    |
| 14    | E83550 | NyLoc Hex Nut, M6 Zinc                     | 2    |
| 15    | E86853 | Nyloc Hex Nut, M8 Zinc                     | 4    |
| 16    | E82798 | Flat Washer, M6x18x1.5 Zinc                | 2    |
| 17    | E82774 | Lock Washer, M6 Zinc                       | 1    |
| 18    | E83404 | Flat Washer M9x24x2.5 Zinc                 | 6    |
| 19    | E85762 | Hose Clamp                                 | 1    |
| 20    | E86154 | Fork                                       | 1    |
| 21    | E22161 | Base Cover                                 | 1    |
| 22    | E82410 | Brush, Front Cylindrical, White, 0.5mm PPL | 1    |
| 23    | E82528 | Brush, Rear Cylindrical, Blue, 0.3mm PPL   | 1    |
| 24    | E22162 | Brush, Medium Duty, 0.6mm                  | 2    |

# BRUSH DRIVE DIAGRAM

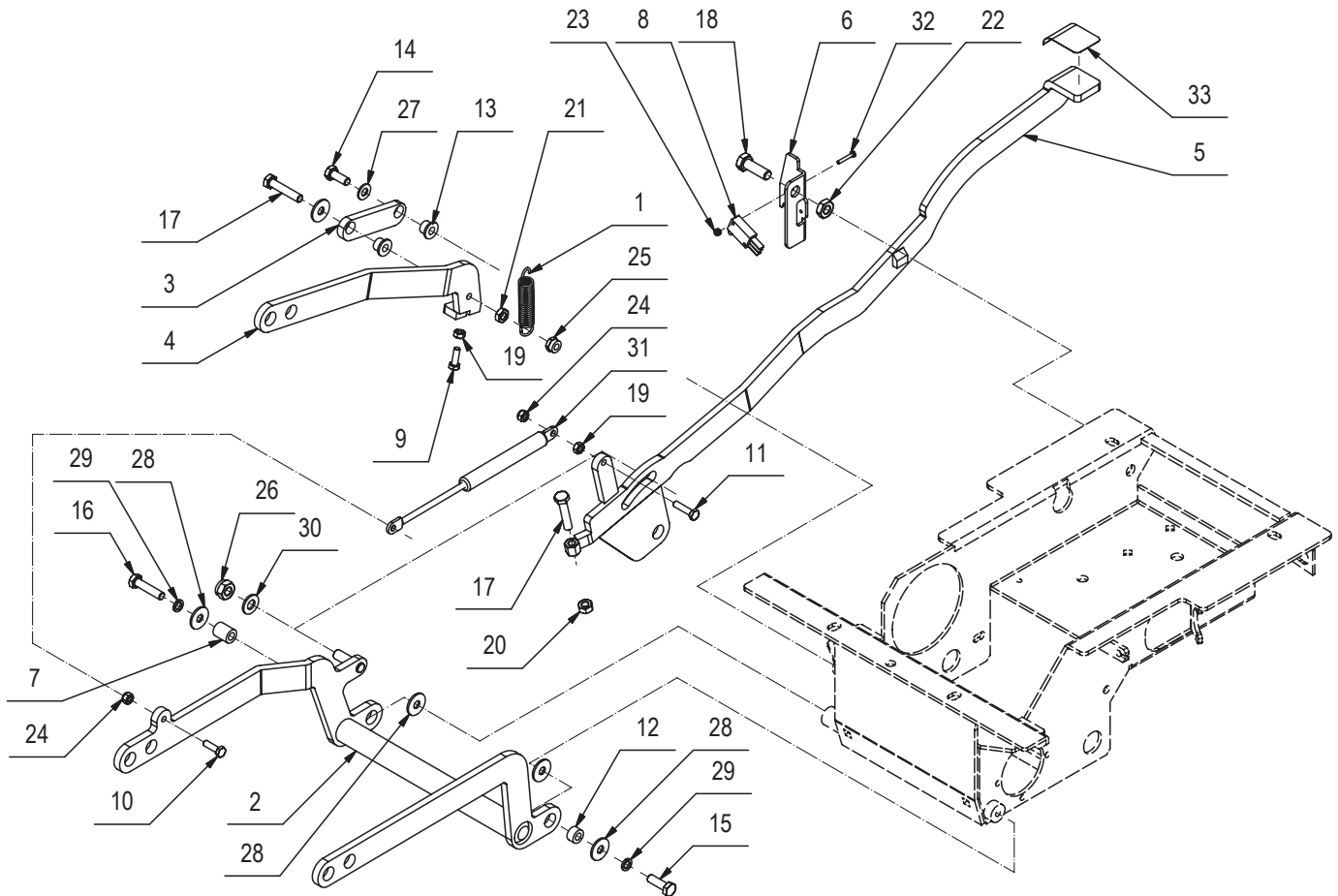


# BRUSH DRIVE PARTS LISTING

| Item# | Part # | Description                | Qty. | Item# | Part #   | Description                           | Qty. |
|-------|--------|----------------------------|------|-------|----------|---------------------------------------|------|
| 1     | E22163 | Spacer                     | 1    | 55    | E83700   | Shaft Key 5x5x20mm                    | 1    |
| 2     | E82701 | Tube                       | 2    | 56    | E82399   | Shaft Key                             | 1    |
| 3     | E88445 | Brush Deck Housing         | 1    | 57    | E83905   | Bearing, 8201 2RS                     | 8    |
| 4     | E81818 | Bracket Support            | 1    | 58    | E22181   | Bearing, 6202 2RS 15x35x11            | 2    |
| 5     | E82674 | Bracket Support            | 1    | 59    | E83923   | Bearing, 6004 2RS                     | 2    |
| 6     | E22164 | Support Mount              | 1    | 60    | E83934   | Screw m5x25                           | 2    |
| 7     | E22165 | Hub                        | 2    | 61    | E20234   | Carriage Bolt M6x20 SS                | 5    |
| 8     | E83337 | Knob                       | 1    | 62    | E22182   | Bolt, M8 x 25                         | 8    |
| 9     | E22166 | Linkage                    | 1    | 63    | E22183   | Bolt, M8 x 35                         | 1    |
| 10    | E22167 | Motor Mount                | 1    | 64    | E22184   | Bolt, M4 x 16                         | 2    |
| 11    | E82369 | Pulley, Motor              | 1    | 65    | E83974   | Hex Bolt M6x30 Zinc                   | 4    |
| 12    | E82466 | Support                    | 1    | 66    | E83795   | Hex Bolt M8x16 Zinc                   | 3    |
| 13    | E82434 | Pin                        | 1    | 67    | E83827   | Hex Bolt M8x45 Zinc                   | 1    |
| 14    | E22168 | Left Support               | 1    | 68    | E20288   | Soc Hd Cap Screw M8x30 Zinc           | 2    |
| 15    | E22169 | Bearing Hub                | 2    | 69    | E22185   | Pin                                   | 2    |
| 16    | E83988 | Bushing                    | 2    | 70    | E22186   | Pin                                   | 1    |
| 17    | E89543 | Bushing                    | 2    | 71    | E81963   | Flat Hd Soc Machine Screw M5x12 SS    | 5    |
| 18    | E22170 | Spring                     | 1    | 72    | E83835   | Screw M6 x 12                         | 11   |
| 19    | E82264 | Hub, Left                  | 2    | 73    | E81871   | Flat Hd Soc Machine Screw M8x40 Zinc  | 2    |
| 20    | E22171 | Spindle, Right Hub         | 2    | 74    | E83846   | Screw, M8x70                          | 2    |
| 21    | E22172 | Cap, Right Hub             | 2    | 75    | E20112   | Hex Nut, M6x6 Zinc                    | 2    |
| 22    | E82690 | Support                    | 2    | 76    | E83656   | Hex Nut, M8x6.5 Zinc                  | 1    |
| 23    | E82413 | Shaft                      | 2    | 77    | E83672   | Hex Jam Nut, M8x5 SS                  | 1    |
| 24    | E81442 | Blade                      | 1    | 78    | E82808   | Hex Jam Nut, M8X5 Zinc                | 1    |
| 25    | E22173 | Cover                      | 1    | 79    | E22187   | Nut, M8 x 4                           | 2    |
| 26    | E22174 | Plate                      | 1    | 80    | E81649   | Nut, Locking M4X6                     | 2    |
| 27    | E22175 | Spray Bar                  | 1    | 81    | E20705   | Nyloc Hex Nut, M5 Zinc                | 4    |
| 28    | E82407 | Hopper, Simpla Cylindrical | 1    | 82    | E83550   | NyLoc Hex Nut, M6 Zinc                | 4    |
| 29    | E22176 | Stud Bolt                  | 2    | 83    | E86853   | Nyloc Hex Nut, M8 Zinc                | 13   |
| 30    | E82442 | Pin                        | 1    | 84    | E22295   | Dome Hex Nut, M8 Zinc                 | 2    |
| 31    | E22177 | Plate                      | 1    | 85    | E22188   | Nut                                   | 1    |
| 32    | E82537 | Support                    | 1    | 86    | E83859   | Washer                                | 2    |
| 33    | E83896 | Wheel                      | 2    | 87    | E81618   | Flat Washer M5x10x1 SS                | 4    |
| 34    | E20081 | Bearing Block              | 1    | 88    | E20121   | Flat Washer M5x15x1.5 Zinc            | 2    |
| 35    | E82451 | Wheel 45 OD x 25 W         | 4    | 89    | E82761   | Flat Washer M6x12x1.6 Zinc            | 4    |
| 36    | E82331 | Splash guard               | 1    | 90    | E82798   | Flat Washer, M6x18x1.5 Zinc           | 4    |
| 37    | E82431 | Splash guard               | 1    | 91    | E83799   | Flat Washer M6.6x18x2 SS              | 5    |
| 38    | E82496 | Seal                       | 4    | 92    | E82774   | Lock Washer, M6 Zinc                  | 4    |
| 39    | E20084 | Hex Bolt M5x16 SS          | 6    | 93    | E22189   | Washer, 8 x 14 x 1.5                  | 1    |
| 40    | E83659 | Screw                      | 2    | 94    | E81874   | Flat Washer M8x17x1.6 Zinc            | 15   |
| 41    | E82772 | Hex Bolt M6x20 Zinc        | 4    | 95    | E83404   | Flat Washer M9x24x2.5 Zinc            | 2    |
| 42    | E88444 | Brush Motor Drive          | 1    | 96    | E81918   | Flat Washer M9x32x2.5 Zinc            | 2    |
| 43    | E82474 | Right Blade                | 1    | 97    | E83704   | Lock Washer M8x13x2.2 Zinc            | 2    |
| 44    | E88407 | Left Blade                 | 1    | 98    | E83822   | Washer                                | 2    |
| 45    | E22178 | SPACER                     | 1    | 99    | E81438   | External Serrated Lock Washer M6 Zinc | 4    |
| 46    | E83524 | Bushing                    | 2    | 100   | E2219000 | Washer                                | 4    |
| 47    | E83791 | Bushing                    | 1    | 101   | E22191   | Washer                                | 4    |
| 48    | E22179 | Spring                     | 1    | 102   | E22192   | Pin, 0.8 x 35                         | 2    |
| 49    | E82446 | Spring                     | 1    | 103   | E83605   | Split pin                             | 1    |
| 50    | E82418 | Pulley                     | 1    | 104   | E20129   | Cap                                   | 2    |
| 51    | E82354 | Pulley                     | 1    | 105   | E22193   | Plug                                  | 2    |
| 52    | E83979 | Belt                       | 1    | 106   | E81445   | Flexible Coupling                     | 1    |
| 53    | E83630 | Ring                       | 2    | 107   | E82314   | Nyloc Hex Nut, M6 SS                  | 7    |
| 54    | E22180 | Snap Ring                  | 1    | 108   | E22322   | Soc Hd Cap Screw M8x70 Zinc           | 1    |



# BRUSH DECK LIFT DIAGRAM

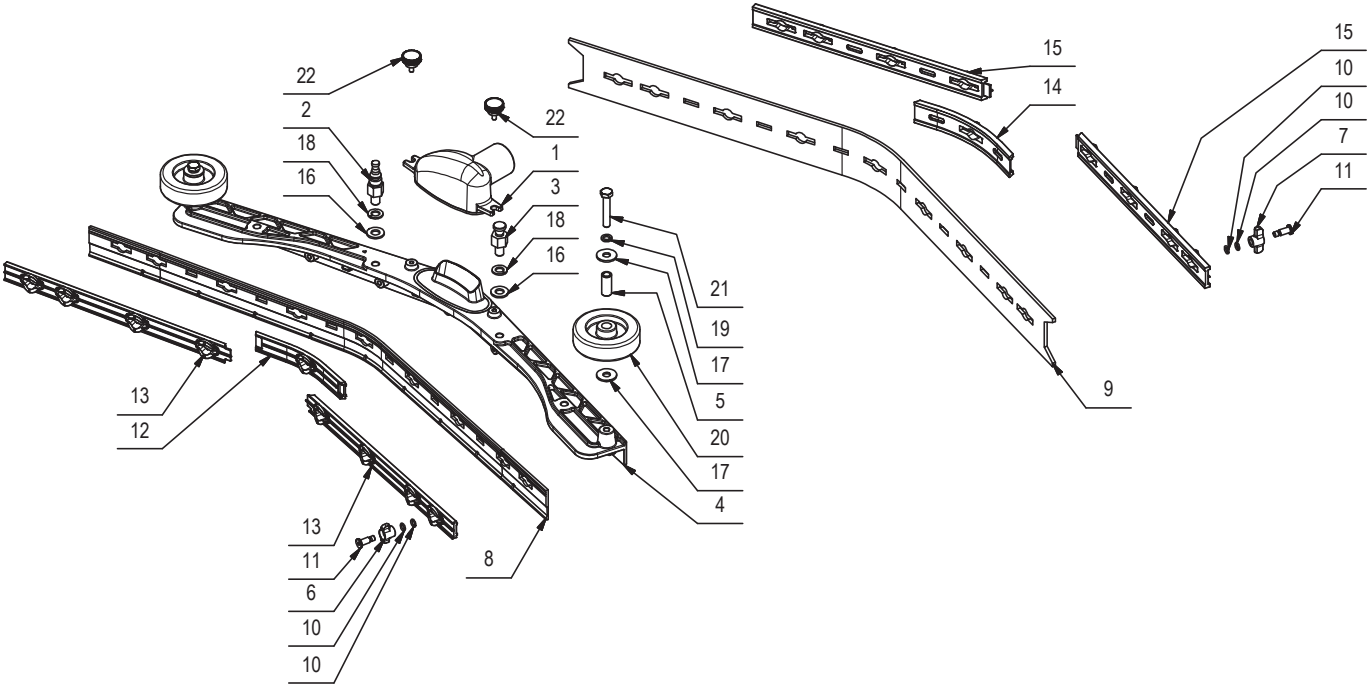


## BRUSH DECK LIFT PARTS LISTING

| Item# | Part # | Description                      | Qty. |
|-------|--------|----------------------------------|------|
| 1     | E82689 | Spring, 15x2x60mm Galv Extension | 1    |
| 2     | E20219 | Brush Deck Lift Arm Weldment     | 1    |
| 3     | E20220 | Brush Deck Lift Arm Linkage      | 1    |
| 4     | E20062 | Brush Deck Lift Idler Arm        | 1    |
| 5     | E20282 | Brush Deck Lift Foot Pedal       | 1    |
| 6     | E20283 | Foot Pedal Latch Plate           | 1    |
| 7     | E20063 | Bushing                          | 1    |
| 8     | E88279 | Micro Switch Sealed              | 1    |
| 9     | E20088 | Hex Bolt M6x18 Zinc              | 1    |
| 10    | E82772 | Hex Bolt M6x20 Zinc              | 1    |
| 11    | E20090 | Hex Bolt M6x25 Zinc              | 1    |
| 12    | E83932 | Bushing                          | 1    |
| 13    | E82285 | Bushing                          | 2    |
| 14    | E81917 | Hex Bolt M8x20 Zinc              | 1    |
| 15    | E83833 | Hex Bolt M8x25 Zinc              | 1    |
| 16    | E83801 | Hex Bolt M8x35 Zinc              | 1    |
| 17    | E83830 | Hex Bolt M8x40 Zinc              | 2    |

| Item# | Part # | Description                | Qty. |
|-------|--------|----------------------------|------|
| 18    | E88011 | Hex Bolt, M10 x 30 Zinc    | 1    |
| 19    | E83852 | Hex Nut, M6x5              | 2    |
| 20    | E83656 | Hex Nut, M8x6.5 Zinc       | 1    |
| 21    | E82808 | Hex Jam Nut, M8X5 Zinc     | 1    |
| 22    | E83875 | Hex Jam Nut, M10X6 Zinc    | 1    |
| 23    | E81673 | Hex Nyloc Nut, M3 Zinc     | 2    |
| 24    | E83550 | NyLoc Hex Nut, M6 Zinc     | 2    |
| 25    | E86853 | Nyloc Hex Nut, M8 Zinc     | 1    |
| 26    | E83381 | Nyloc Hex Nut, M10 Zinc    | 1    |
| 27    | E81874 | Flat Washer M8x17x1.6 Zinc | 1    |
| 28    | E83404 | Flat Washer M9x24x2.5 Zinc | 5    |
| 29    | E83704 | Lock Washer M8x13x2.2 Zinc | 2    |
| 30    | E82773 | Flat Washer M10x21x2 Zinc  | 1    |
| 31    | E20130 | Shock Absorber             | 1    |
| 32    | E20533 | Hex Bolt M3x20 SS          | 2    |
| 33    | E20635 | Abrasive Antislip Tape     | 1    |

**SQUEEGEE ASSEMBLY DIAGRAM**

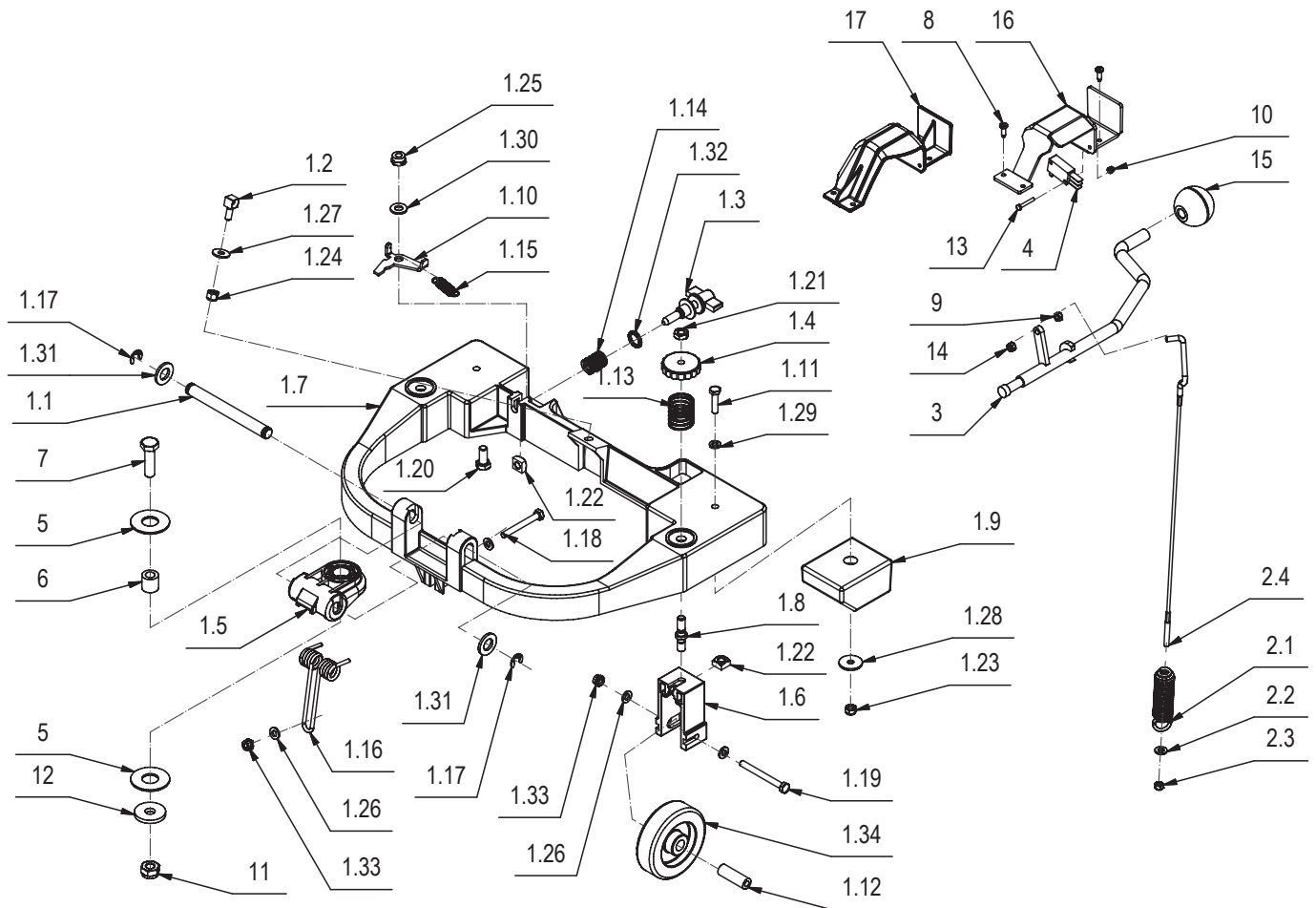


## SQUEEGEE ASSEMBLY PARTS LISTING

| Item# | Part # | Description                                               | Qty. |
|-------|--------|-----------------------------------------------------------|------|
| 1     | E89559 | Squeegee Vacuum Adapter (H)                               | 1    |
| 2     | E82275 | Pin, Adjustable Mounting M10 Zinc                         | 1    |
| 3     | E82280 | Pin, Fixed Mounting M10 Zinc                              | 1    |
| 4     | E22633 | Squeegee Body                                             | 1    |
| 5     | E88442 | Bushing, Steel, 12mm OD, 8mm ID, 28mm L                   | 2    |
| 6     | E22358 | Wing Nut Knob                                             | 9    |
| 7     | E22359 | Wing Nut Knob                                             | 9    |
| 8     | E22636 | Front Squeegee Blade, Polyurethane 31" x 1 1/2" x 1/8"    | 1    |
| 9     | E22637 | Wiping Squeegee Blade, Gum Rubber 33 1/2" x 1 3/4" x 1/8" | 1    |
| 10    | E22385 | O-Ring 7mm                                                | 36   |
| 11    | E22346 | Custom Cap Screw                                          | 18   |

| Item# | Part # | Description                       | Qty. |
|-------|--------|-----------------------------------|------|
| 12    | E22352 | Center Front Squeegee Blade Clamp | 1    |
| 13    | E22635 | Front Squeegee Blade Clamp        | 2    |
| 14    | E22355 | Center Rear Squeegee Blade Clamp  | 1    |
| 15    | E22634 | Rear Squeegee Blade Clamp         | 2    |
| 16    | E86255 | Flat Washer M10x21x2 SS           | 2    |
| 17    | E86164 | Flat Washer M9x24x2.5 SS          | 4    |
| 18    | E20128 | Lock Washer M10 SS                | 2    |
| 19    | E20252 | Lock Washer M8x13x2.2 SS          | 2    |
| 20    | E88280 | Wheel 80 x 23 Superlan Grey       | 2    |
| 21    | E20287 | Hex Bolt M8x45 SS                 | 2    |
| 22    | E22630 | Thumb Screw                       | 2    |

# SQUEEGEE YOKE DIAGRAM

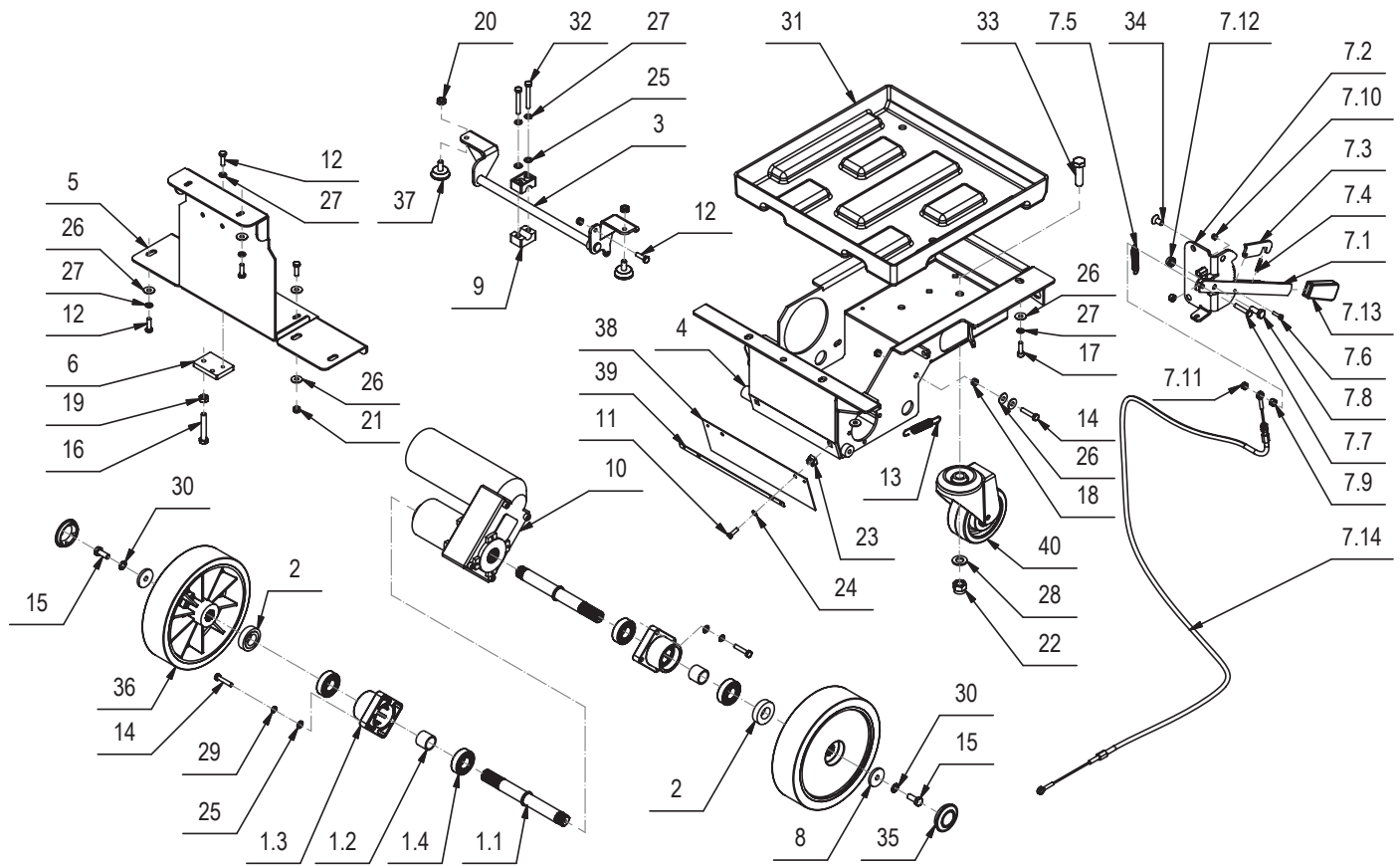


# SQUEEGEE YOKE PARTS LISTING

| Item# | Part # | Description                          | Qty. |
|-------|--------|--------------------------------------|------|
| 1     | E20623 | Squeegee Yoke ASM                    | 1    |
| 1.1   | E20010 | Pivot Pin                            | 1    |
| 1.2   | E82389 | Tie Rod, M6 Square Head Zinc         | 1    |
| 1.3   | E82265 | Knob, Squeegee Pitch Adjustment      | 1    |
| 1.4   | E83331 | Knob, M8 Round Nylon Female          | 2    |
| 1.5   | E85776 | Pivot Connector                      | 1    |
| 1.6   | E20078 | Squeegee Wheel Support               | 2    |
| 1.7   | E81880 | Squeegee Yoke                        | 1    |
| 1.8   | E20079 | Threaded Adjuster Rod                | 2    |
| 1.9   | E20080 | Ballast                              | 2    |
| 1.10  | E86252 | Latch, Squeegee Connector            | 1    |
| 1.11  | E20090 | Hex Bolt M6x25 Zinc                  | 2    |
| 1.12  | E82274 | Bushing                              | 2    |
| 1.13  | E20091 | Spring                               | 2    |
| 1.14  | E82703 | Spring, 16.6x2x23mm Galv Compression | 1    |
| 1.15  | E82453 | Spring, 10x1.1x38 SS Extension       | 1    |
| 1.16  | E86158 | Spring, 86mm Galv Torsion Custom     | 1    |
| 1.17  | E85498 | E Style Circlip                      | 2    |
| 1.18  | E86159 | Hex Bolt M6x50 Zinc                  | 1    |
| 1.19  | E83866 | Hex Bolt M6x60 SS                    | 2    |
| 1.20  | E20098 | Hex Bolt M8x18 Zinc                  | 1    |
| 1.21  | E83672 | Hex Jam Nut, M8x5 SS                 | 2    |
| 1.22  | E83824 | Square Nut, M8 SS                    | 3    |
| 1.23  | E83550 | NyLoc Hex Nut, M6 Zinc               | 2    |
| 1.24  | E83550 | NyLoc Hex Nut, M6 Zinc               | 1    |
| 1.25  | E86853 | Nyloc Hex Nut, M8 Zinc               | 1    |
| 1.26  | E82761 | Washer 6x12x1.6                      | 6    |
| 1.27  | E82798 | Washer, 6x18x1.5                     | 1    |

| Item# | Part # | Description                               | Qty. |
|-------|--------|-------------------------------------------|------|
| 1.28  | E83278 | Flat Washer M6.5x24x2 Zinc                | 2    |
| 1.29  | E82774 | Lock Washer, M6 Zinc                      | 2    |
| 1.30  | E88238 | Flat Washer, M8x17x1.6 SS                 | 1    |
| 1.31  | E85722 | Flat Washer M13x24x2.5 Zinc               | 2    |
| 1.32  | E81406 | External Serrated Lock Washer M13x18 Zinc | 1    |
| 1.33  | E82314 | Nyloc Hex Nut, M6 SS                      | 3    |
| 1.34  | E88280 | Wheel 80 OD x 23 W                        | 2    |
| 2     | E88278 | Squeegee Lift Rod ASM                     | 1    |
| 2.1   | E82279 | Spring, 20x3x48mm Custom Galv Extension   | 1    |
| 2.2   | E82761 | Washer 6x12x1.6                           | 1    |
| 2.3   | E20382 | Nyloc Hex Nut, M5 x 5 Zinc                | 1    |
| 2.4   | E88250 | Squeegee Lift Cable                       | 1    |
| 3     | E20313 | Squeegee Lift Lever                       | 1    |
| 4     | E88279 | Micro Switch Sealed                       | 1    |
| 5     | E20337 | Flat Washer M17x40x2 Delrin               | 2    |
| 6     | E20231 | Bushing                                   | 1    |
| 7     | E82455 | Hex Bolt M10x35 Zinc                      | 1    |
| 8     | E83838 | Screw, Flat Hd M4x15 Zinc                 | 4    |
| 9     | E82317 | Hex Jam Nut, M5X3.5 Zinc                  | 1    |
| 10    | E81673 | Hex Nyloc Nut, M3 Zinc                    | 2    |
| 11    | E83381 | Nyloc Hex Nut, M10 Zinc                   | 1    |
| 12    | E20295 | Flat Washer M10.5x32x4Zinc                | 1    |
| 13    | E20533 | Hex Bolt M3x20 SS                         | 2    |
| 14    | E20382 | Nyloc Hex Nut, M5 x 5 Zinc                | 1    |
| 15    | E20638 | Knob                                      | 1    |
| 16    | E20641 | Bracket                                   | 1    |
| 17    | E20641 | Bracket                                   | 1    |

# MAIN FRAME DIAGRAM



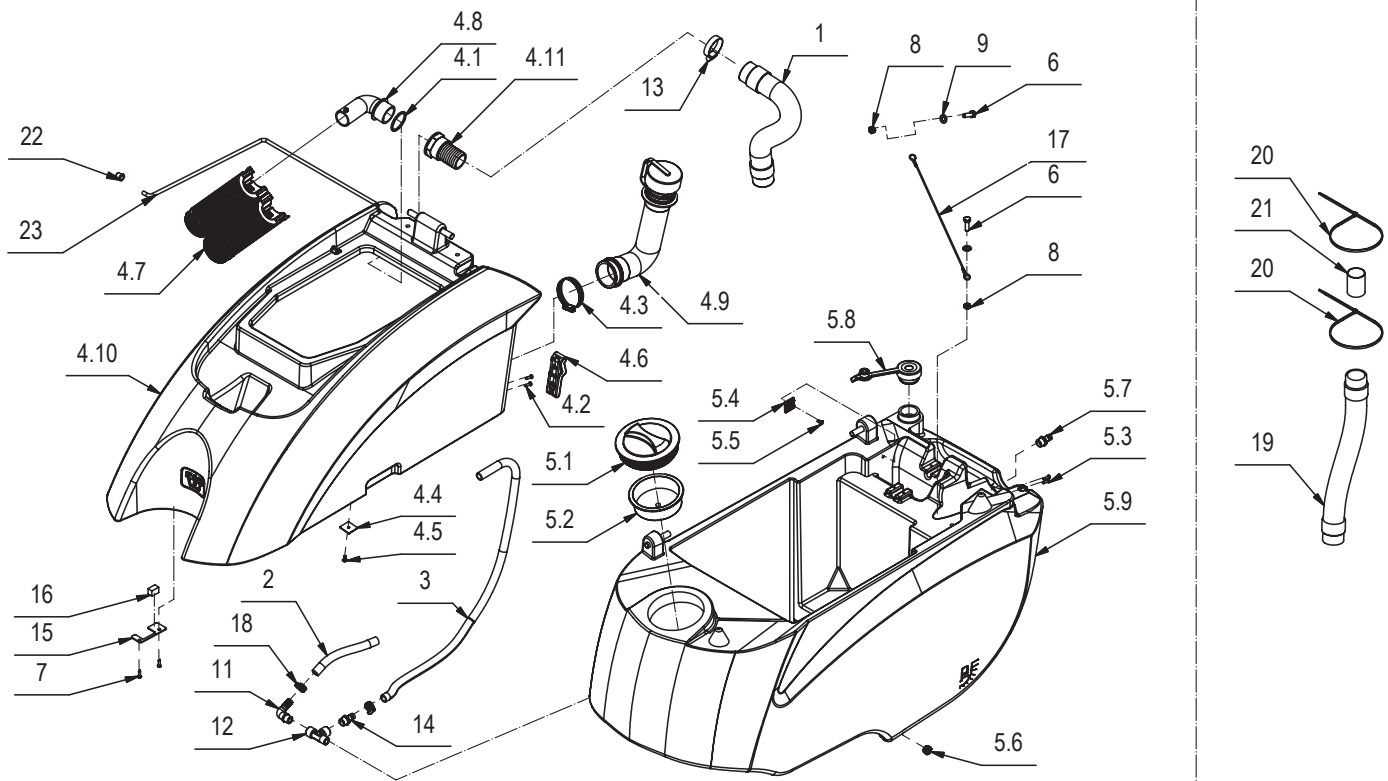


# MAIN FRAME PARTS LISTING

| Item# | Part # | Description                | Qty. |
|-------|--------|----------------------------|------|
| 1     | E20003 | Axle Shaft ASM             | 2    |
| 1.1   | E20478 | Axle Shaft                 | 1    |
| 1.2   | E20482 | Spacer                     | 1    |
| 1.3   | E20081 | Bearing Block              | 1    |
| 1.4   | E83923 | Bearing                    | 2    |
| 2     | E20013 | Spacer                     | 2    |
| 3     | E20492 | Brake Arm Weldment         | 1    |
| 4     | E20407 | Main Frame Weldment        | 1    |
| 5     | E20221 | Frame Bracket              | 1    |
| 6     | E20222 | Plate                      | 1    |
| 7     | E20518 | Brake Lever ASM            | 1    |
| 7.1   | E20595 | Brake Lever                | 1    |
| 7.2   | E20522 | Brake Lever Bracket        | 1    |
| 7.3   | E81928 | Latch Lock                 | 1    |
| 7.4   | E82255 | Spring                     | 1    |
| 7.5   | E83491 | Spring                     | 1    |
| 7.6   | E20341 | Hex Bolt M4x16 Zinc        | 1    |
| 7.7   | E83974 | Hex Bolt M6x30 Zinc        | 1    |
| 7.8   | E81917 | Hex Bolt M8x20 Zinc        | 1    |
| 7.9   | E20112 | Hex Nut, M6x6 Zinc         | 2    |
| 7.10  | E83867 | Nyloc Hex Nut, M4x6 Zinc   | 1    |
| 7.11  | E83550 | NyLoc Hex Nut, M6 Zinc     | 1    |
| 7.12  | E81709 | Nyloc Hex Nut, M8 Zinc     | 1    |
| 7.13  | E20423 | Brake Handle Grip          | 1    |
| 7.14  | E20537 | Brake Cable                | 1    |
| 8     | E81915 | Flat Washer M8.2x32x4 Zinc | 2    |
| 9     | E82834 | Pivot Block                | 4    |
| 10    | E86182 | Drive Motor 24VDC 150W     | 1    |
| 11    | E20084 | Hex Bolt M5x16 SS          | 2    |

| Item# | Part # | Description                           | Qty. |
|-------|--------|---------------------------------------|------|
| 12    | E82772 | Hex Bolt M6x20 Zinc                   | 7    |
| 13    | E81056 | Spring                                | 1    |
| 14    | E83974 | Hex Bolt M6x30 Zinc                   | 9    |
| 15    | E81917 | Hex Bolt M8x20 Zinc                   | 2    |
| 16    | E87285 | Hex Bolt M8x50 Zinc                   | 1    |
| 17    | E20489 | Soc Hd Cap Screw M6x20 Zinc           | 2    |
| 18    | E83852 | Hex Nut, M6x5                         | 2    |
| 19    | E83656 | Hex Nut, M8x6.5 Zinc                  | 1    |
| 20    | E82808 | Hex Jam Nut, M8X5 Zinc                | 2    |
| 21    | E83550 | NyLoc Hex Nut, M6 Zinc                | 2    |
| 22    | E20249 | Nyloc Hex Nut, M12x15 Zinc            | 1    |
| 23    | E20250 | Cage Nut M5                           | 2    |
| 24    | E81618 | Flat Washer M5x10x1 SS                | 2    |
| 25    | E82761 | Flat Washer M6x12x1.6 Zinc            | 12   |
| 26    | E82798 | Flat Washer M6x18x1.5 Zinc            | 11   |
| 27    | E82774 | Flat Washer M6x12x1.6 SS              | 11   |
| 28    | E85722 | Flat Washer M13x24x2.5 Zinc           | 1    |
| 29    | E81438 | External Serrated Lock Washer M6 Zinc | 8    |
| 30    | E83868 | External Serrated Lock Washer M8 Zinc | 2    |
| 31    | E88002 | Battery Tray                          | 1    |
| 32    | E20360 | Hex Bolt M6x45 Zinc                   | 4    |
| 33    | E20379 | Hex Bolt M12x40 Zinc                  | 1    |
| 34    | E20297 | Flat Hd Soc Machine Screw M8x16 Zinc  | 2    |
| 35    | E81971 | Wheel Cap                             | 2    |
| 36    | E88282 | Wheel 200 OD x 50 W                   | 2    |
| 37    | E20175 | Brake Pad M8x17                       | 2    |
| 38    | E88283 | Chassis Splash Guard                  | 1    |
| 39    | E20176 | Band Clamp                            | 1    |
| 40    | E20177 | Caster                                | 1    |

# TANK ASSEMBLY DIAGRAM

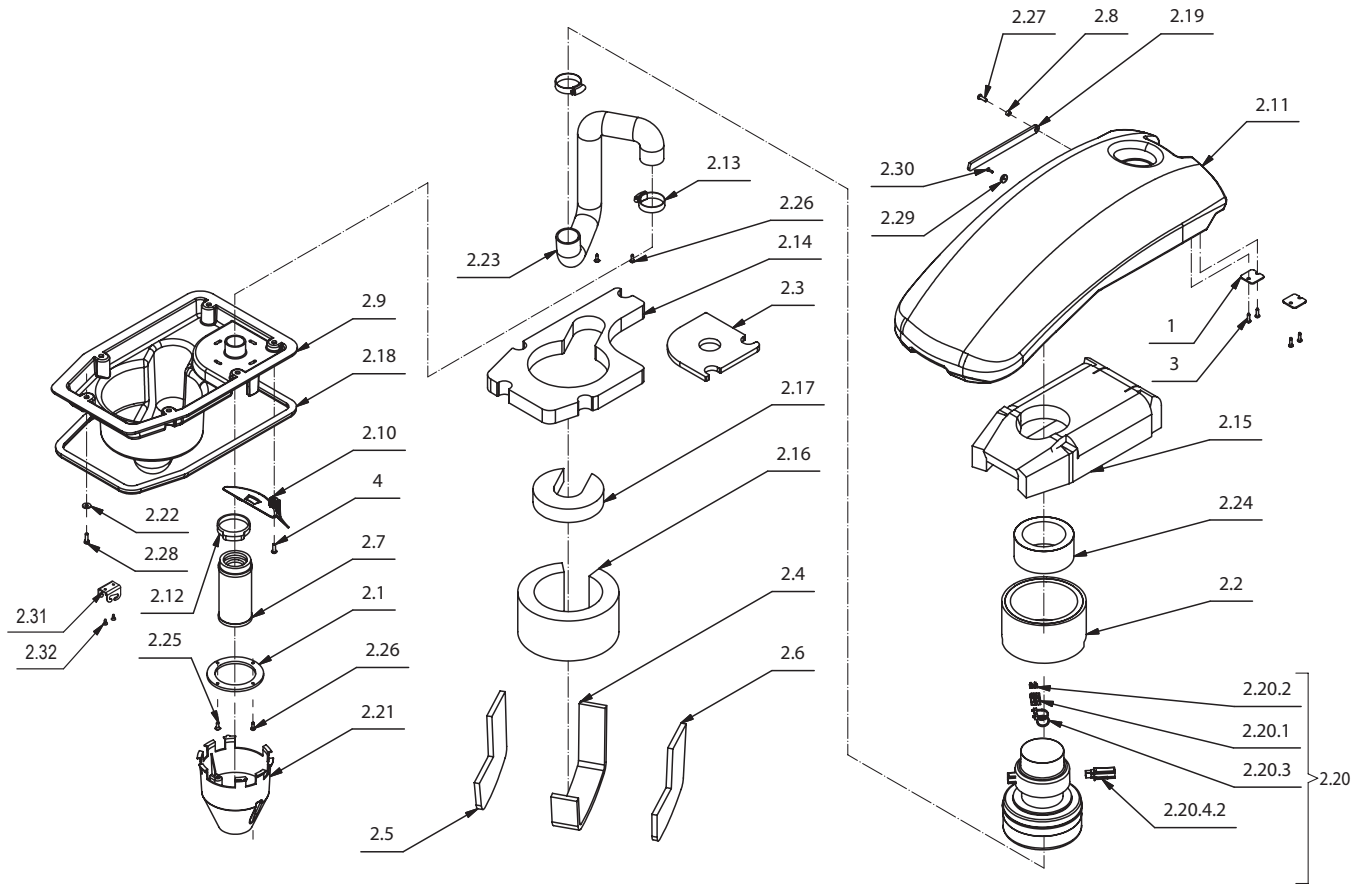


# TANK ASSEMBLY PARTS LISTING

| Item# | Part # | Description                                  | Qty. |
|-------|--------|----------------------------------------------|------|
| 1     | E88499 | Hose, Vacuum                                 | 1    |
| 2     | E20004 | Tubing 12 ID x 200 L                         | 1    |
| 3     | E88288 | Hose, Glass Reinforced 17 OD x 12 ID x 820 L | 1    |
| 4     | E20228 | Recovery Tank Assembly                       | 1    |
| 4.1   | E82341 | Gasket                                       | 1    |
| 4.2   | E20107 | Screw, Pan Hd Phil Self Tap M4.2x16 SS       | 2    |
| 4.3   | E20432 | Hose Clamp                                   | 1    |
| 4.4   | E88164 | Male Connector 1/4 x 1/2 for Simpla 20       | 1    |
| 4.5   | E20468 | Flat Hd Phil Machine Screw M5x12 Zinc        | 1    |
| 4.6   | E20413 | Latch                                        | 1    |
| 4.7   | E88285 | Filter, Cage                                 | 1    |
| 4.8   | E20186 | Elbow                                        | 1    |
| 4.9   | E88286 | Hose, Drain                                  | 1    |
| 4.10  | E20202 | Recovery Tank                                | 1    |
| 4.11  | E20189 | Fitting, Threaded Nylon                      | 1    |
| 5     | E20376 | Solution Tank Assembly                       | 1    |
| 5.1   | E82429 | Cap                                          | 1    |
| 5.2   | E82612 | Filter                                       | 1    |
| 5.3   | E20107 | Screw, Pan Hd Phil Self Tap M4.2x16 SS       | 2    |
| 5.4   | E88164 | Male Connector 1/4 x 1/2 for Simpla 20       | 1    |
| 5.5   | E20468 | Flat Hd Phil Machine Screw M5x12 Zinc        | 1    |

| Item# | Part # | Description                              | Qty. |
|-------|--------|------------------------------------------|------|
| 5.6   | E20627 | Plug, 3/8" Male                          | 1    |
| 5.7   | E82269 | Barbed Fitting, 3/8 in.                  | 1    |
| 5.8   | E20185 | Cap                                      | 1    |
| 5.9   | E20201 | Soltuion Tank                            | 1    |
| 6     | E83833 | Hex Bolt M8x25 Zinc                      | 2    |
| 7     | E20107 | Screw, Pan Hd Phil Self Tap M4.2x16 SS   | 4    |
| 8     | E82808 | Hex Jam Nut, M8X5 Zinc                   | 2    |
| 9     | E20127 | Flat Washer M9x18x1.5 Zinc               | 2    |
| 11    | E86275 | Barbed Elbow, 3/8"                       | 1    |
| 12    | E20651 | T-Fitting, 3/8" Male/Double Female Nylon | 1    |
| 13    | E20325 | Hose Clamp                               | 1    |
| 14    | E82269 | Barbed Fitting, 3/8 in.                  | 1    |
| 15    | E20399 | Pivot Plate                              | 2    |
| 16    | E20190 | Spacer Block                             | 2    |
| 17    | E88260 | Lanyard                                  | 1    |
| 18    | E85762 | Hose Clamp                               | 2    |
| 19    | E88499 | Hose, Vacuum                             | 1    |
| 20    | E83920 | Clamp 9x300 4,8x360 black                | 2    |
| 21    | E88500 | Fitting, Hose D38, W1.5, L50             | 1    |
| 22    | E22074 | Plug, Vac Lid Bale                       | 2    |
| 23    | E22072 | Bale, Vac Lid                            | 1    |

# VACUUM UNIT DIAGRAM

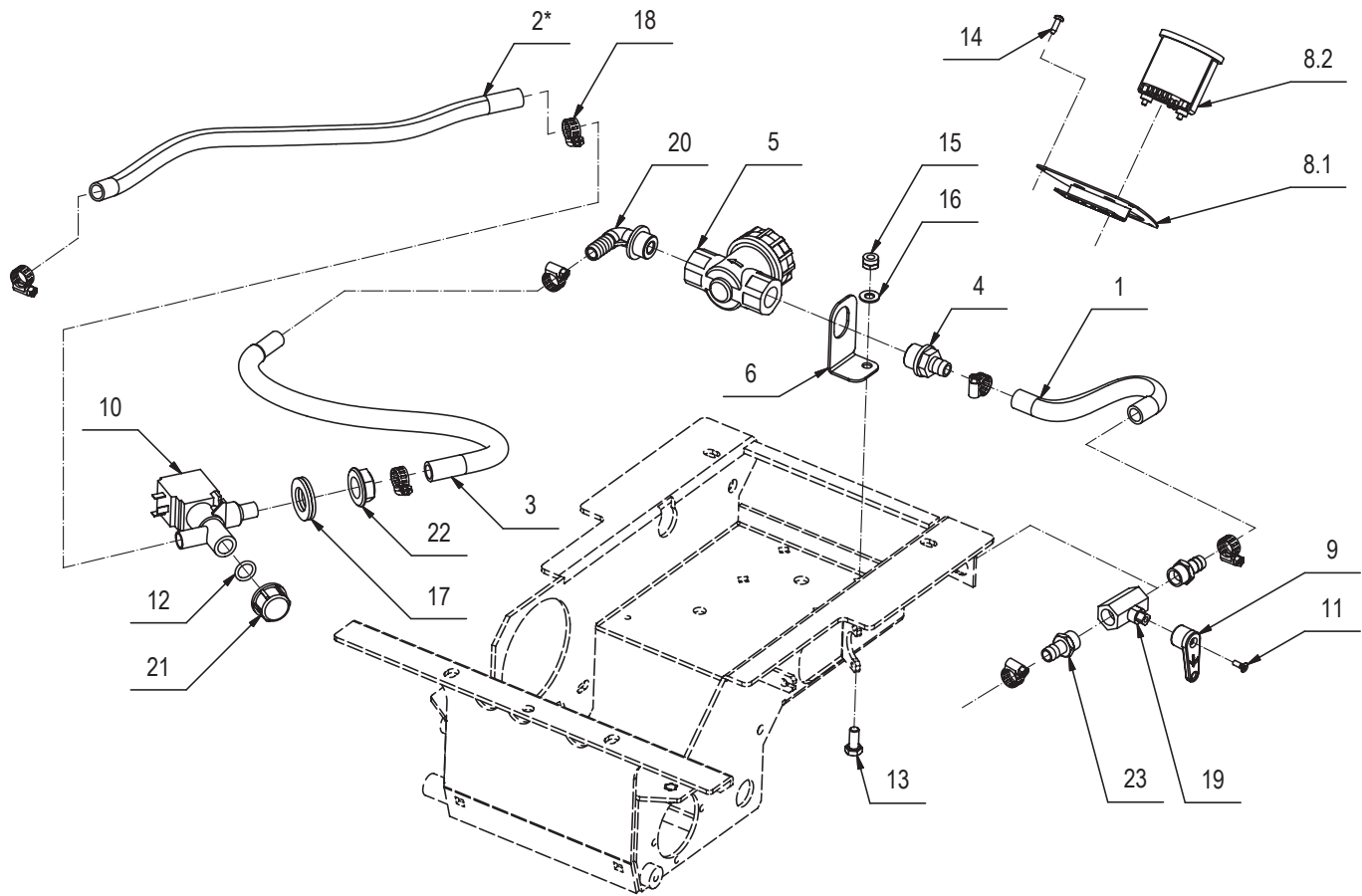


# VACUUM UNIT PARTS LISTING

| Item# | Part # | Description             | Qty. |
|-------|--------|-------------------------|------|
| 1     | E20265 | Plate                   | 2    |
| 2     | E20066 | Recovery Tank Cover ASM | 1    |
| 2.1   | E20305 | Mounting Ring           | 1    |
| 2.2   | E20652 | Sound Deadening Foam    | 1    |
| 2.3   | E20180 | Sound Deadening Foam    | 1    |
| 2.4   | E20179 | Sound Deadening Foam    | 1    |
| 2.5   | E20178 | Sound Deadening Foam    | 1    |
| 2.6   | E20266 | Sound Deadening Foam    | 1    |
| 2.7   | E88292 | "Filter, Cage"          | 1    |
| 2.8   | E20486 | Bushing                 | 1    |
| 2.9   | E20384 | Vacuum Motor Cover      | 1    |
| 2.10  | E20191 | Deflector               | 1    |
| 2.11  | E20199 | Recovery Tank Cover     | 1    |
| 2.12  | E81710 | Hose Clamp              | 1    |
| 2.13  | E20325 | Hose Clamp              | 2    |
| 2.14  | E20181 | Sound Deadening Foam    | 1    |
| 2.15  | E20184 | Sound Deadening Foam    | 1    |
| 2.16  | E20183 | Sound Deadening Foam    | 1    |
| 2.17  | E20182 | Sound Deadening Foam    | 1    |
| 2.18  | E88289 | Gasket                  | 1    |

| Item#    | Part # | Description                              | Qty. |
|----------|--------|------------------------------------------|------|
| 2.19     | E20064 | Support Bracket                          | 1    |
| 2.20     | E88291 | Vacuum Motor 36VDC 550W                  | 1    |
| 2.20.1   | E83897 | Connector, Electrical Housing 30A        | 2    |
| 2.20.2   | E83883 | Lug, Electrical 30A                      | 2    |
| 2.20.3   | E83935 | Wire Tie                                 | 2    |
| 2.20.4   | E88291 | Vacuum Motor 36VDC 550W                  | 1    |
| 2.20.4.1 | E88291 | Vacuum Motor 36VDC 550W                  | 1    |
| 2.20.4.2 | E20525 | Carbon Brush                             | 2    |
| 2.21     | E81006 | Vacuum Splash Guard                      | 1    |
| 2.22     | E20122 | Flat Washer M5 x 15 x 1.5 SS             | 5    |
| 2.23     | E88290 | Hose, Vacuum 1-1/2" x 22-1/4"            | 1    |
| 2.24     | E20440 | Sound Deadening Foam                     | 1    |
| 2.25     | E83796 | Screw, Pan Hd Phil Self Tap M4.2x16 Zinc | 2    |
| 2.26     | E83838 | Screw, Flat Hd M4x15 Zinc                | 2    |
| 2.27     | E20442 | Button Hd Soc Machine Screw M5x16 Zinc   | 1    |
| 2.28     | E20084 | Hex Bolt M5x16 SS                        | 5    |
| 2.29     | E20712 | Magnet                                   | 1    |
| 2.30     | E20192 | CHIPBOARD SCREW M3x12 Zinc               | 1    |
| 2.31     | E22075 | Hook, Vac Lid Bale                       | 1    |
| 2.32     | E22076 | Screw, M4 x 10                           | 2    |

# SOLUTION CONTROL DIAGRAM

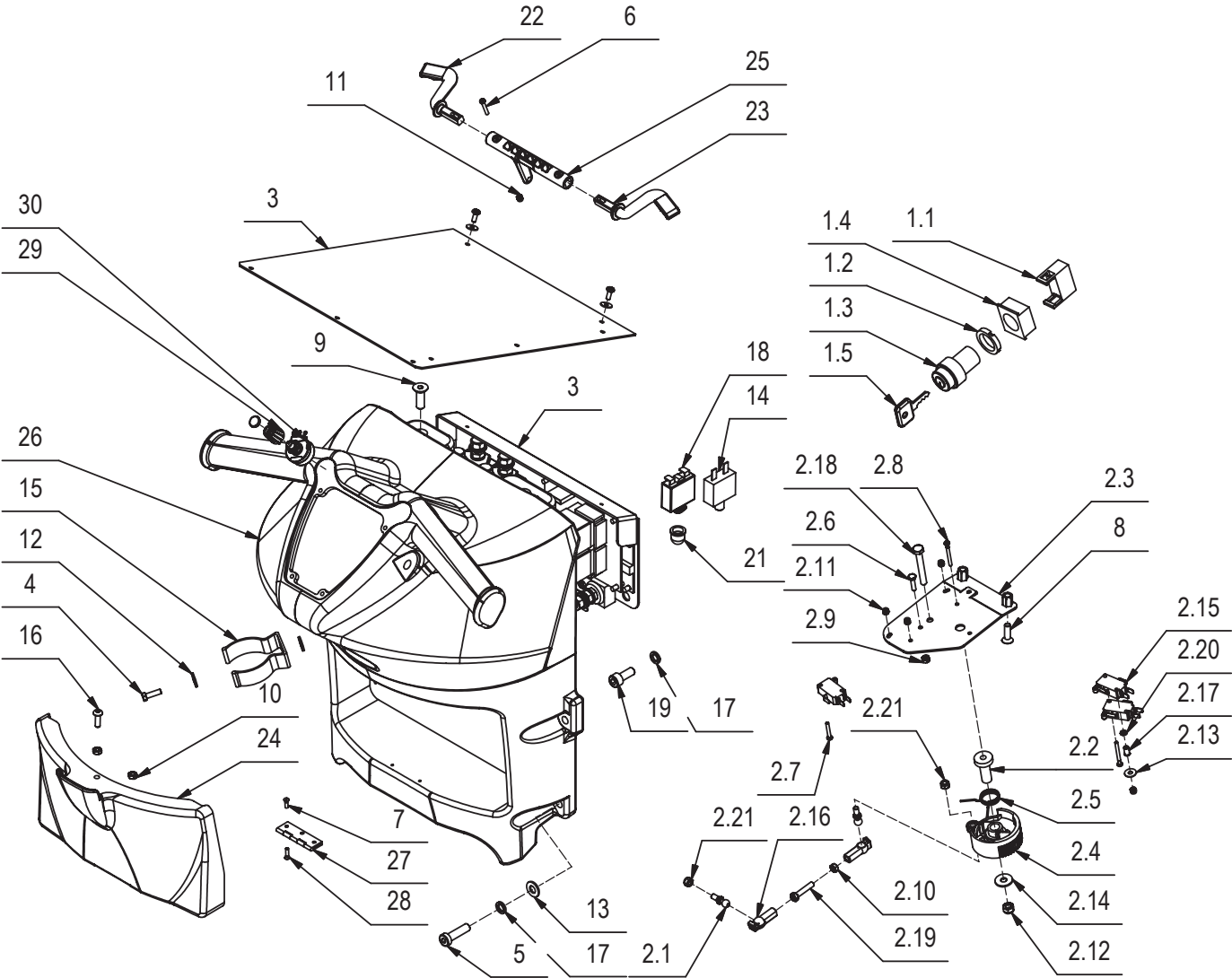


## SOLUTION CONTROL PARTS LISTING

| Item# | Part # | Description                                    | Qty. |
|-------|--------|------------------------------------------------|------|
| 1     | E20004 | Tubing 12 ID x 200 L                           | 1    |
| 2     | E20530 | Tubing 12 ID x 460 L                           | 1    |
| 3     | E82693 | Hose, 17 OD x 12 ID x L 420                    | 1    |
| 4     | E82447 | Fitting, 1/2" NPT & 1/2" Barbed Nylon          | 1    |
| 5     | E88207 | Filter Assembly, Inline Double Female 1/2" NPT | 1    |
| 6     | E20457 | Bracket                                        | 1    |
| 8     | E20463 | Instrument Panel ASM                           | 1    |
| 8.1   | E20332 | Panel                                          | 1    |
| 8.2   | E88293 | Battery Check Card, Hour Meter                 | 1    |
| 9     | E82705 | Valve Lever                                    | 1    |
| 10    | E82322 | Solenoid Valve, 24v 10w 3-Port Nylon           | 1    |
| 11    | E83858 | Oval Hd SL Machine Screw M4x12 SS              | 1    |

| Item# | Part # | Description                                 | Qty. |
|-------|--------|---------------------------------------------|------|
| 12    | E83617 | O-Ring, 14x2.5mm Buna-N                     | 1    |
| 13    | E20098 | Hex Bolt M8x18 Zinc                         | 1    |
| 14    | E83838 | Screw, Flat Hd M4x15 Zinc                   | 4    |
| 15    | E86853 | Nyloc Hex Nut, M8 Zinc                      | 1    |
| 16    | E81874 | Flat Washer M8x17x1.6 Zinc                  | 1    |
| 17    | E20253 | Flat Washer M21x60x3 Nylon                  | 2    |
| 18    | E85762 | Hose Clamp                                  | 7    |
| 19    | E83361 | Ball Valve, 5/8 Double Female               | 1    |
| 20    | E81446 | Fitting, 1/2" NPT & 1/2" Barbed Nylon Elbow | 1    |
| 21    | E83616 | Cap, 1/2" NPT Nylon                         | 1    |
| 22    | E20433 | Ring Nut 1/2"                               | 1    |
| 23    | E82269 | Barbed Fitting, 3/8 in.                     | 2    |

# HANDLEBAR DIAGRAM



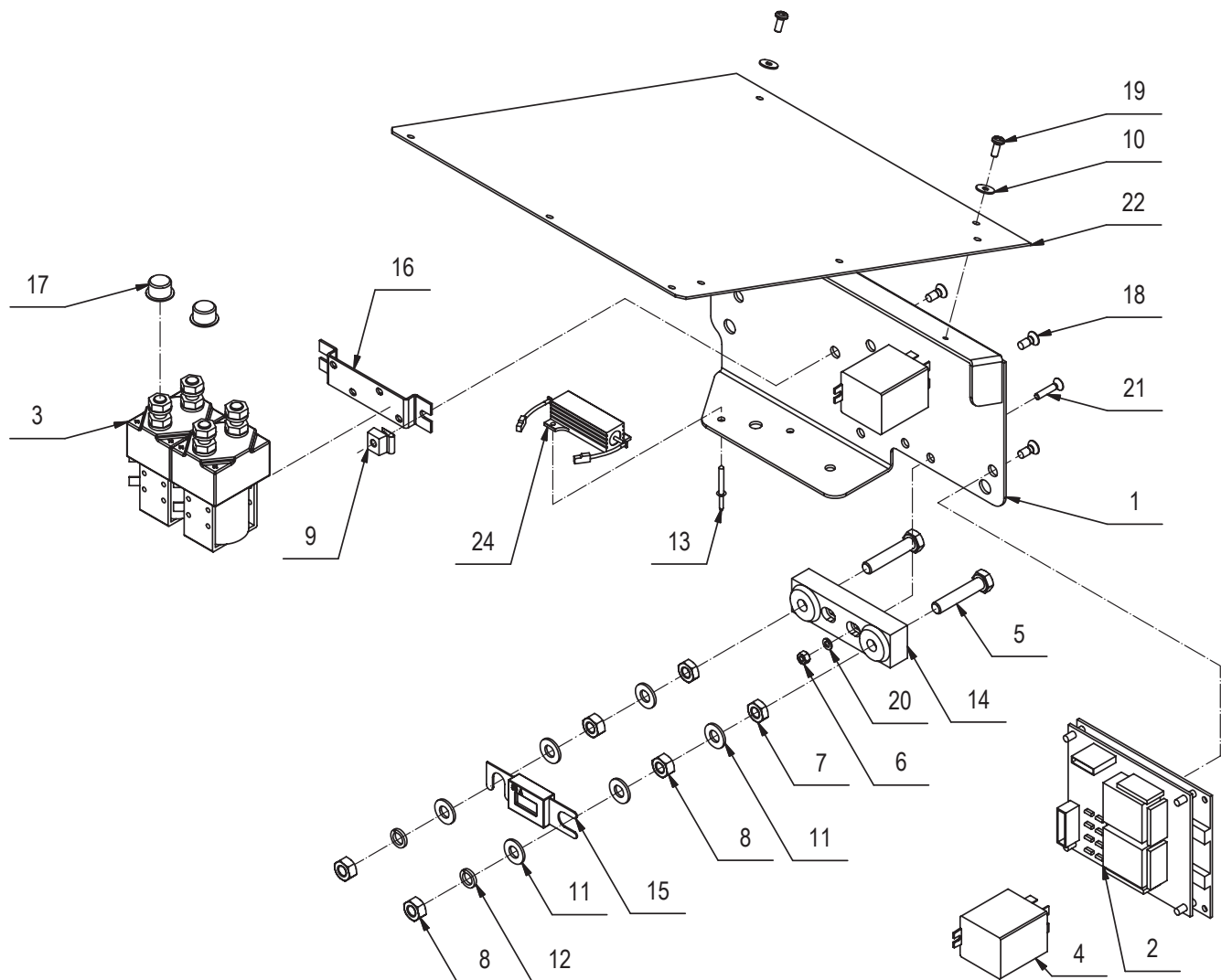


# HANDLEBAR PARTS LISTING

| Item# | Part # | Description                                | Qty. |
|-------|--------|--------------------------------------------|------|
| 1     | E82351 | Key Switch Assembly w/Keys                 | 1    |
| 1.1   | E83173 | Contact, Key Switch                        | 1    |
| 1.2   | E83316 | Key Switch                                 | 1    |
| 1.3   | E83316 | Key Switch                                 | 1    |
| 1.4   | E81358 | Switch Flange                              | 1    |
| 1.5   | E83315 | Switch Key                                 | 1    |
| 2     | E20223 | Drive Control                              | 1    |
| 2.1   | E20330 | Ball Stud M10x22.5                         | 2    |
| 2.2   | E81597 | Circuit Breaker 10 amp, 1/4" Tab Terminals | 1    |
| 2.3   | E20556 | Plate                                      | 1    |
| 2.4   | E81763 | Cam                                        | 1    |
| 2.5   | E82304 | Spring, 20.2x1.3x20.8mm Steel Torsion      | 1    |
| 2.6   | E20341 | Hex Bolt M4x16 Zinc                        | 1    |
| 2.7   | E20242 | Pan Hd Phil Machine Screw M3x20 Zinc       | 2    |
| 2.8   | E20243 | Pan Hd Phil Machine Screw M3x30 Zinc       | 2    |
| 2.9   | E20248 | Hex Nut, M4x4 Zinc                         | 1    |
| 2.10  | E82317 | Hex Jam Nut, M5X3.5 Zinc                   | 2    |
| 2.11  | E81673 | Hex Nyloc Nut, M3 Zinc                     | 4    |
| 2.12  | E83550 | NyLoc Hex Nut, M6 Zinc                     | 1    |
| 2.13  | E83037 | Flat Washer M4x12x1.6 Zinc                 | 1    |
| 2.14  | E82798 | Flat Washer, M6x18x1.5 Zinc                | 1    |
| 2.15  | E82270 | Micro Switch                               | 3    |
| 2.16  | E81625 | Shank, M5x32 Female Threaded Nylon         | 2    |
| 2.17  | E20466 | Insert, M3x9 Zinc                          | 1    |
| 2.18  | E20360 | Hex Bolt M6x45 Zinc                        | 1    |
| 2.19  | E20362 | Set Screw Hex Soc Dog Point M5x30 Zinc     | 1    |
| 2.20  | E20469 | Flat Washer M3 SS                          | 2    |
| 2.21  | E20382 | Nyloc Hex Nut, M5 x 5 Zinc                 | 2    |

| Item# | Part # | Description                            | Qty. |
|-------|--------|----------------------------------------|------|
| 3     | E20625 | Electrical Control Panel ASM           | 1    |
| 4     | E83836 | Hex Bolt M5x16 Zinc                    | 1    |
| 5     | E20288 | Soc Hd Cap Screw M8x30 Zinc            | 4    |
| 6     | E20242 | Pan Hd Phil Machine Screw M3x20 Zinc   | 2    |
| 7     | E81672 | Flat Hd SL Machine Screw M3x10 SS      | 2    |
| 8     | E20111 | Flat Hd Soc Machine Screw M6x20 Zinc   | 2    |
| 9     | E20346 | Flat Hd Soc Machine Screw M8x25 SS     | 2    |
| 10    | E82317 | Hex Jam Nut, M5X3.5 Zinc               | 2    |
| 11    | E81673 | Hex Nyloc Nut, M3 Zinc                 | 2    |
| 12    | E20121 | Flat Washer M5x15x1.5 Zinc             | 2    |
| 13    | E81874 | Flat Washer M8x17x1.6 Zinc             | 4    |
| 14    | E83959 | Circuit Breaker 20A                    | 1    |
| 15    | E87296 | Drain Hose Clip                        | 1    |
| 16    | E20442 | Button Hd Soc Machine Screw M5x16 Zinc | 1    |
| 17    | E81046 | Lock Washer M8 Zinc                    | 7    |
| 18    | E83952 | Circuit Breaker 30A                    | 1    |
| 19    | E20614 | Soc Hd Cap Screw M8x20 Zinc            | 3    |
| 20    | E88299 | Cover, Thermal Switch                  | 1    |
| 21    | E20576 | Cap, M10x13 Threaded Poly              | 1    |
| 22    | E88300 | Lever, Left Switch                     | 1    |
| 23    | E88301 | Lever, Right Switch                    | 1    |
| 24    | E20267 | Door                                   | 1    |
| 25    | E88267 | Switch Cam                             | 1    |
| 26    | E20200 | Handlebar Housing                      | 1    |
| 27    | E20400 | Hinge                                  | 1    |
| 28    | E20192 | CHIPBOARD SCREW M3x12 Zinc             | 2    |
| 29    | E88408 | Knob                                   | 1    |
| 30    | E20713 | Potentiometer                          | 1    |

# ELECTRICAL COMPONENTS DIAGRAM

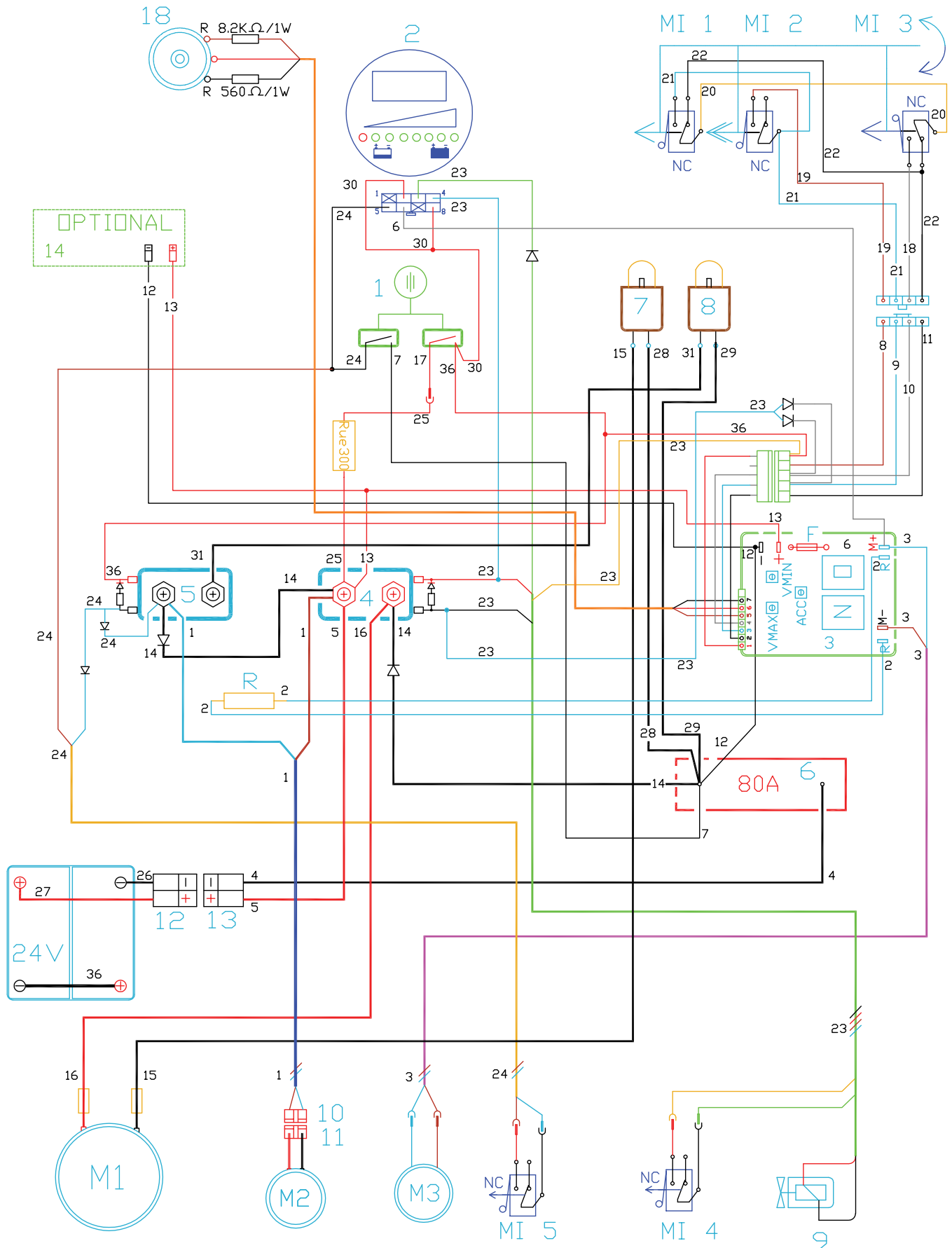


# ELECTRICAL COMPONENTS PARTS LISTING

| Item# | Part # | Description              | Qty. |
|-------|--------|--------------------------|------|
| 1     | E20065 | Bracket                  | 1    |
| 2     | E20646 | Chopper Card             | 1    |
| 3     | E83628 | Contactora 24VDC         | 2    |
| 4     | E83159 | Relay 24VDC 20A          | 2    |
| 5     | E20097 | Hex Bolt M8x40 SS        | 2    |
| 6     | E20248 | Hex Nut, M4x4 Zinc       | 2    |
| 7     | E83672 | Hex Jam Nut, M8x5 SS     | 2    |
| 8     | E20115 | Hex Nut, M8x6.5 Brass    | 4    |
| 9     | E20479 | Spring Nut M5            | 2    |
| 10    | E81738 | Flat Washer M4x12x3 Zinc | 2    |
| 11    | E20124 | Flat Washer M8x17x1.6 SS | 6    |
| 12    | E20252 | Lock Washer M8x13x2.2 SS | 2    |

| Item# | Part # | Description                           | Qty. |
|-------|--------|---------------------------------------|------|
| 13    | E20377 | Rivet, M2.4x8 AL                      | 2    |
| 14    | E20484 | Fuse Block                            | 1    |
| 15    | E83170 | Fuse, 80 Amp                          | 1    |
| 16    | E20448 | Bracket                               | 1    |
| 17    | E20129 | Cap                                   | 4    |
| 18    | E20468 | Flat Hd Phil Machine Screw M5x12 Zinc | 5    |
| 19    | E81998 | Pan Hd Phil Machine Screw M4x10 SS    | 2    |
| 20    | E20475 | Lock Washer M4 Zinc                   | 2    |
| 21    | E20301 | Flat Hd Phil Machine Screw M4x20 Zinc | 2    |
| 22    | E88456 | Electrical Cover Rubber Flap          | 1    |
| 24    | E20368 | Resistor                              | 1    |

# ELECTRICAL DIAGRAM

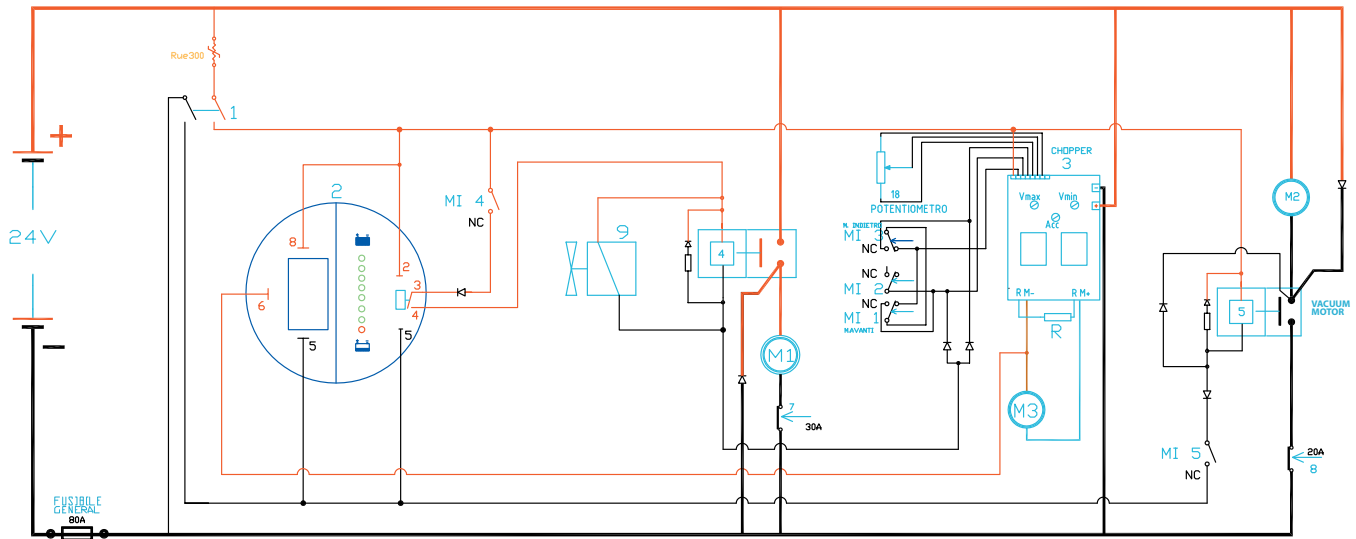


# ELECTRICAL LISTING

| Item# | Part # | Description              |
|-------|--------|--------------------------|
| 1     | E82351 | Key Switch               |
| 2     | E88293 | Hour Meter               |
| 3     | E20646 | Chopper Card             |
| 4     | E83628 | Contactora 24VDC         |
| 5     | E83628 | Contactora 24VDC         |
| 6     | E83170 | Fuse, 80 Amp             |
| 7     | E83952 | Circuit Breaker 30A      |
| 8     | E83959 | Circuit Breaker 20A      |
| 9     | E82322 | Solenoid Valve           |
| 9A    | E81035 | Solenoid Valve           |
| 10    | E20402 | Electrical Connector 30A |
| 11    | E20402 | Electrical Connector 30A |

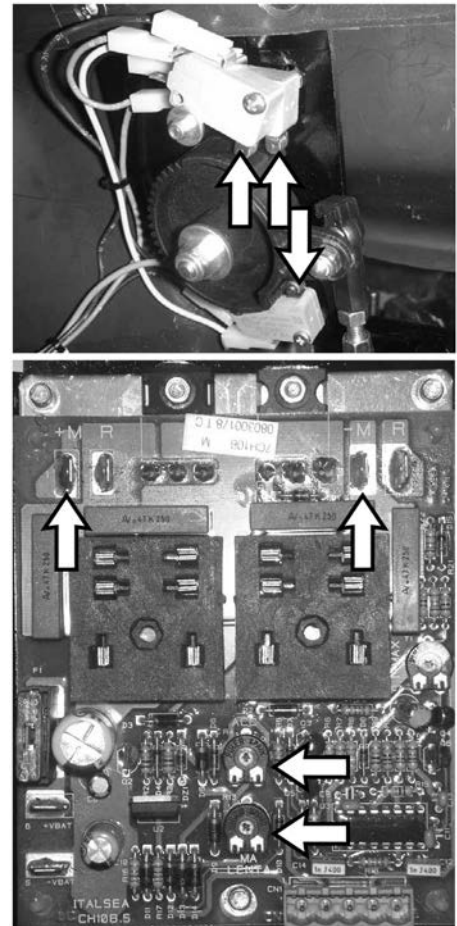
| Item# | Part # | Description                    |
|-------|--------|--------------------------------|
| 12    | E20619 | SB175 Red Electrical Connector |
| 13    | E20619 | SB175 Red Electrical Connector |
| F     | E83972 | Fuse 30A fasten                |
| N     | E83159 | Relay 24VDC 20A                |
| R     | E20368 | Resistor                       |
| MI 1  | E82270 | Micro Switch                   |
| MI 2  | E82270 | Micro Switch                   |
| MI 3  | E82270 | Micro Switch                   |
| MI 4  | E88249 | Micro Switch                   |
| MI 5  | E88249 | Micro Switch                   |
| M2    | E88291 | Vacuum Motor 36VDC 550W        |
| M3    | E86182 | Drive Motor 24VDC 150W         |

# ELECTRICAL DIAGRAM



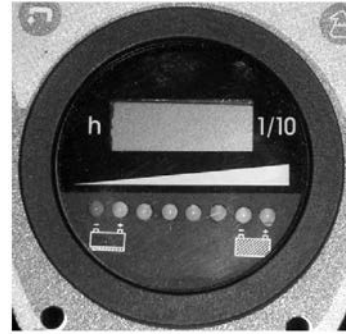
## ELECTRIC HARNESS INSPECTION

1. Verify the functionality of the variable speed control card.
2. If necessary adjust the variable speed control card as follows:
  - Lift up at least one of the traction wheels.
  - Remove the handlebar to gain access to the electric controls.
  - Place voltage meter probes on the faston **M+** and **M-** of the variable speed control card.
  - Turn on the key master switch.
  - Pull the lever until you hear the forward first **micro switch click** (first speed).
  - The tester has to show a voltage between 14 and 15 V. If the reading is different adjust the **trimmer "MA Lenta"** (first speed).
  - Completely pull the switch lever until the second (maximum) speed **micro switch** is pressed. A voltage of 24 V (the same as the battery voltage) should be observed.
  - Acceleration adjustment: Adjust the **"ACC" trimmer** to let it be between 30° and 45° respect the central position rotating clockwise. Verify that with this adjustment the machine reaches maximum speed in 4 seconds.
  - Check the backwards direction.
  - Check the braking power of the traction motor. At maximum speed the machine should stop in about 3 feet.

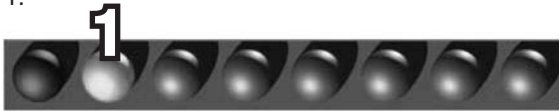


## BATTERY CHECK CARD – HOUR METER

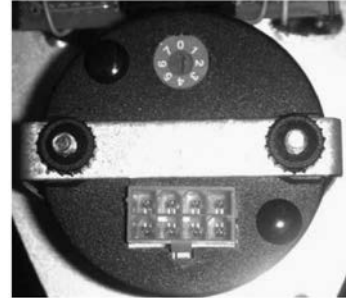
1. Verify that when turning on the machine the battery check card has the following starting sequence:
  - Turning on of the LED which correspond to the set-up (red LED = “0”).
  - Turning on of all the LEDs (check of the lamps)
  - Turning on of the LEDs depending on the charge of the battery
2. Verify the hour meter functionality
  - To verify which is the set-up you turn on the machine and check which is the first LED that turns on. Counting the LEDs since the left side any LED correspond to a position and the LED which turn on correspond to the current set-up.



- Verify that if the machine uses wet cell batteries the adjustment is on position 1.



- Verify that if the machine uses GEL batteries the adjustment is on position 4.



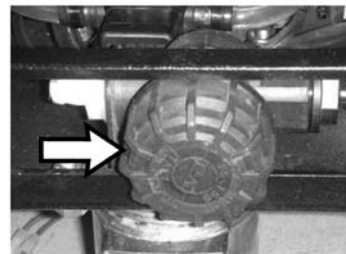
**WARNING:** A wrong set-up of the battery control card can compromise the battery efficiency and damage then in irreversible way.

## WATER PLANT INSPECTIONS

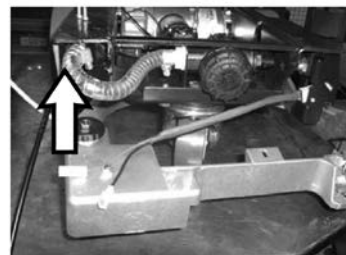
1. Verify the cleanness and functionality of the **solution filter** under the solution tank plug.



2. Check cleanness and sealing of the **solution filter**.

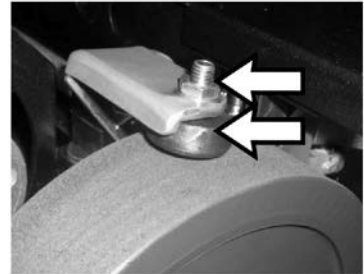
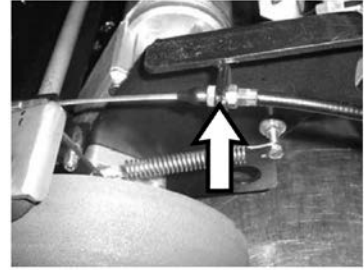


3. Confirm that solution tank is completely filled.
4. Verify the sealing of the hoses, **solenoid valve** and the **water valve**.
5. Verify that the solution, with valve completely open, falls continuously on the floor.



## BRAKE ADJUSTMENT

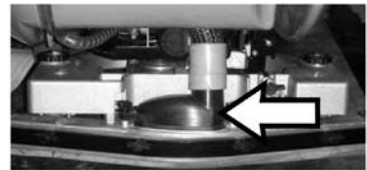
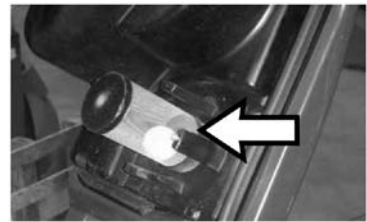
1. Adjust the brake pads on the wheels to lock the wheels when the brake lever reaches the third ratchet notch.
2. To adjust the pads:
  - Unscrew the **M8 jam nut**.
  - Adjust the **pad**.
  - Tighten the **M8 jam nut**.



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## VACUUM SYSTEM INSPECTION

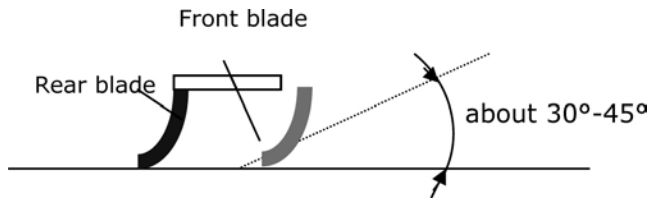
1. Confirm that the **float filter** is clean.
2. Check the air sealing of the **vacuum unit** on the recovery tank.
3. Verify the connections and the sealing of the vacuum hoses and the squeegee hoses.
4. Check the sealing of the **squeegee hose adapter**.
6. Vacuum micro switch adjustment:
7. Adjust the vacuum micro switch in a manner that when the cam on the squeegee lift lever **pushes on the micro switch** there is 0.5 mm of clearance between the micro switch roller and the cam.



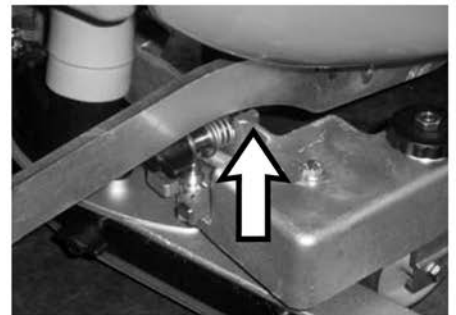
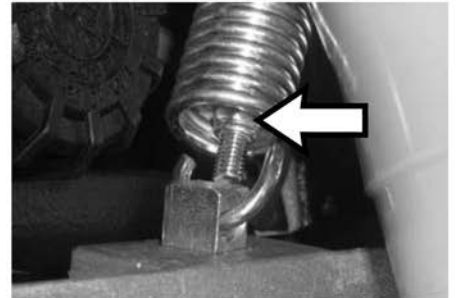
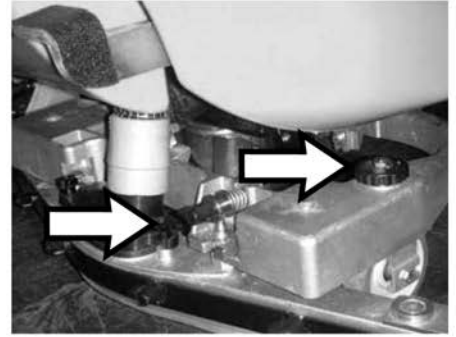


# SQUEEGEE ADJUSTMENT

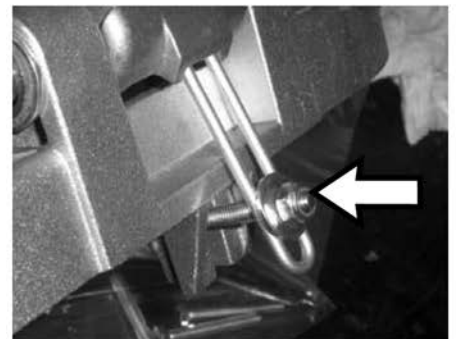
1. Adjust the **inclination adjuster** of the squeegee assembly until the squeegee blade has a uniform deflection along its entire length.
2. Adjust the height of the squeegee wheels using the **knob** such that the squeegee blade has an inclination between 30 and 45 degrees.



3. Verify that the squeegee assembly in up position does not interfere with the brush deck foot lever by adjusting the nyloc nut internal to the squeegee cable spring.



4. Adjust the spring tension so that the squeegee blades deflect when they contact the floor by tightening the nyloc nut.



# CHECK LIST

## Functional check of the machine

- ☐ Check the functionality of switches and warning lamps.
- ☐ Check the functionality of the switch lever.
- ☐ Check the functionality of the brush deck.
- ☐ Check the functionality of the brush motor.
- ☐ Check the functionality of the solenoid valve.
- ☐ Check the functionality of the vacuum motor.
- ☐ Check the functionality of the brakes.
- ☐ Check the functionality of batteries and power cables.

## Functional test of the machine

- ☐ Fill the tanks completely and verify that there are no leaks.
- ☐ Adjust the inclination and the height of the squeegee blades.
- ☐ Adjust the inclination of the brush deck.
- ☐ Check the function of the parking brake.
- ☐ Verify the forward and backward movement, acceleration and braking.

## Final test

- ☐ Check all the functions: washing, drying and movement.

# MAINTENANCE SCHEDULE

|                        | Stealth™ ASC20BT                                                     |       | RECOMMENDED SERVICE INTERVALS<br>(HOURS) |                |                |                |                |                  |
|------------------------|----------------------------------------------------------------------|-------|------------------------------------------|----------------|----------------|----------------|----------------|------------------|
| Machine components     | Suggested replacement                                                | DAILY | 50                                       | 100            | 250            | 400            | 750            | 1,000            |
| <b>BATTERIES</b>       | Check water level and add if necessary                               | DAILY |                                          |                |                |                |                |                  |
|                        | Check cables, connections and plugs                                  |       | 50                                       |                |                |                |                | <del>1,000</del> |
|                        | Check cleanliness of machine battery tray                            |       |                                          |                | 250            |                |                |                  |
| <b>ELECTRIC</b>        | Check state of power contactors and fuses                            |       |                                          | 100            |                |                |                | <del>1,000</del> |
|                        | Check state of electric cables crossing the machine                  |       |                                          |                |                | 400            |                |                  |
| <b>SOLUTION TANK</b>   | Check cleanliness of solution filter                                 | DAILY |                                          |                |                |                | <del>750</del> |                  |
|                        | Check solenoid valve, hoses and connections to the brush head        |       |                                          | 100            |                | <del>400</del> |                |                  |
|                        | Check flow of water on the brushes                                   |       |                                          |                | 250            |                |                |                  |
| <b>RECOVERY TANK</b>   | Check the cleanliness of the tank                                    | DAILY |                                          |                |                |                |                |                  |
|                        | Check filter and float system                                        | DAILY |                                          |                |                |                |                | <del>1,000</del> |
|                        | Check vacuum and drain hoses                                         | DAILY |                                          |                |                |                |                | <del>1,000</del> |
|                        | Check vacuum gasket and drain hoses plugs                            |       | 50                                       |                |                |                |                | <del>1,000</del> |
| <b>BRUSH DECK</b>      | Check tension and wear of belt and state of the bearings             |       |                                          |                | 250            |                |                | <del>1,000</del> |
|                        | Check the right brush inclination                                    |       |                                          | 100            |                |                |                |                  |
|                        | Check brush attachments (rust, ruined parts, cracks)                 |       |                                          |                | 250            |                |                |                  |
|                        | Check wear of spraying guard                                         |       | 50                                       |                |                | <del>400</del> |                |                  |
|                        | Check wear of brushes                                                |       | 50                                       | <del>100</del> |                |                |                |                  |
|                        | Check function of the lifting/lowering element                       |       |                                          |                | 250            |                |                |                  |
| <b>BRUSH MOTOR</b>     | Check cleanliness of air cooling inlet                               |       |                                          | 100            |                |                |                |                  |
|                        | Check wear of carbon brushes                                         |       |                                          |                | 250            | <del>400</del> |                |                  |
|                        | Check amps consumption and noise level                               |       |                                          |                |                |                | 750            |                  |
| <b>VACUUM MOTOR</b>    | Check noise level and cleanliness of the inlet hose                  |       |                                          | 100            |                |                |                |                  |
|                        | Check wear of carbon brushes                                         |       |                                          |                | 250            |                | <del>750</del> |                  |
|                        | Check the vacuum performance, replace if necessary                   |       |                                          |                |                |                |                | <del>1,000</del> |
| <b>SQUEEGEE</b>        | Check cleanliness of the squeegee blades and the squeegee adjustment | DAILY |                                          |                |                |                |                |                  |
|                        | Check wear of central squeegee blades                                |       | 50                                       | <del>100</del> |                |                |                |                  |
|                        | Check wear of front squeegee                                         |       | 50                                       |                | <del>250</del> |                |                |                  |
|                        | Check squeegee yoke                                                  |       |                                          |                |                | 400            |                |                  |
| <b>TRACTION SYSTEM</b> | Check wear of motor carbon brushes                                   |       |                                          |                | 250            |                | <del>750</del> |                  |
|                        | Check cleanliness air cooling inlet                                  |       |                                          | 100            |                |                |                |                  |
|                        | Check wear of wheels                                                 |       |                                          |                |                | 400            |                |                  |
|                        | Check state of bearings                                              |       |                                          |                |                | 400            |                |                  |
|                        | Check the function of the parking braking                            |       |                                          |                | 250            |                |                |                  |
|                        | Check wear of brake pads                                             |       |                                          |                |                | 400            |                | <del>1,000</del> |

Suggested replacement 

## WEAR ITEMS

### Stealth™ ASC20BT

| PART<br>NUMBER | DESCRIPTION                                  |
|----------------|----------------------------------------------|
| E82410         | Brush, Front Cylindrical, White, 0.5mm PPL   |
| E82528         | Brush, Rear Cylindrical, Blue, 0.3mm PPL     |
| E22162         | Brush, Medium Duty, 0.6mm                    |
| E82331         | Splash Guard, Right                          |
| E82431         | Splash Guard, Left                           |
| E22637         | Squeegee Blade Kit, 29"                      |
| E83979         | Brush Drive Belt                             |
| E20700         | Battery 12V 155 AH Wet                       |
| E88030         | Battery 12V 110AH AGM                        |
| E88856         | Battery 12V 135AH AGM                        |
| E88128         | Charger 24VDC 12AMP 120VAC EXT AGM WET RSB50 |



# BETCO US WARRANTY POLICY

## 10 year coverage

Subject to the conditions stated below, Betco warrants parts and labor on rotationally molded polyethylene tanks/housings and injection molded vacuum head assemblies to be free from defects in materials and workmanship for a period of ten years to the original purchaser.

## 3 Year Coverage

Subject to the conditions stated below, Betco warrants parts and labor on all other Betco components to be free from defects in materials and workmanship for a period of three years to the original purchaser.

## 1 Year Coverage

Subject to the conditions stated below, Betco offers a limited warranty on parts and labor on the following equipment: parts and accessories to be free from defects in materials and workmanship for a period of one year to the original purchaser.

- HF14 Upright Vacuum: #E88820-00
- Bac Pac Lite Vacuum: #85903-00
- FiberPRO® Floor Dryer: #85507-00
- WORKMAN™ Series Vacuums:  
#85024-00, #85025-00, #83012-00,  
#85027-00
- CV100T Vacuum: #85023-00
- All Tools and Accessories
- All Battery Chargers
- All Batteries are pro-rated for 1 year

### **Allowable Travel Time Warranty Reimbursement:**

Eligible equipment: All battery and propane powered equipment products. Warranty period: 90 days from date of sale to the original purchaser. A maximum 180 mile round trip at 50 cents per mile will be allowed for warranty consideration.

### **Propane Machine Warranty:**

Kawasaki engines are warranted by Kawasaki for a period of 2 years against manufacturer defects. All other components (except wear items)\* are warranted by Betco for a period of 3 years.

**\*Wear Items exempt from Warranty consideration include but may not be limited to: power cords, transport wheels, vacuum bags, belts, squeegee blades, pad drivers, clutch plates, handle grips, filters, screens, throttle cables, brushes and carbon brushes.**

Subject to the conditions and exceptions stated in this warranty, Betco warrants the Betco products to be free from defects in material and workmanship, under normal use and service, for the periods listed under the warranty policy to the original purchaser. At any time during the warranty period, Betco will furnish replacement parts for the Betco parts to the original purchaser. Such parts will be furnished and charged including transportation costs, to the original owner through any Betco authorized Service Distributor. If the original part is returned within the warranty policy period from date of delivery for inspection by Betco and is found to be defective the owner will be credited for the cost of replacement parts plus shipping and handling. Replacement parts that have become defective through wear or abuse are not included in this warranty.

This warranty does not apply to damage or defect caused by accident, misuse, Negligence, fire, or to any Betco product which has been serviced or repaired by other than an authorized Betco Service Distributor or Betco factory personnel. This warranty is void if products are used for any purpose other than that which was intended. There are no other warranties expressed or implied. In no event shall Betco be liable for incidental or consequential damages or any damage to person or property. (Please note some states do not allow the exclusion or limitations for incidental and consequential damages).

