

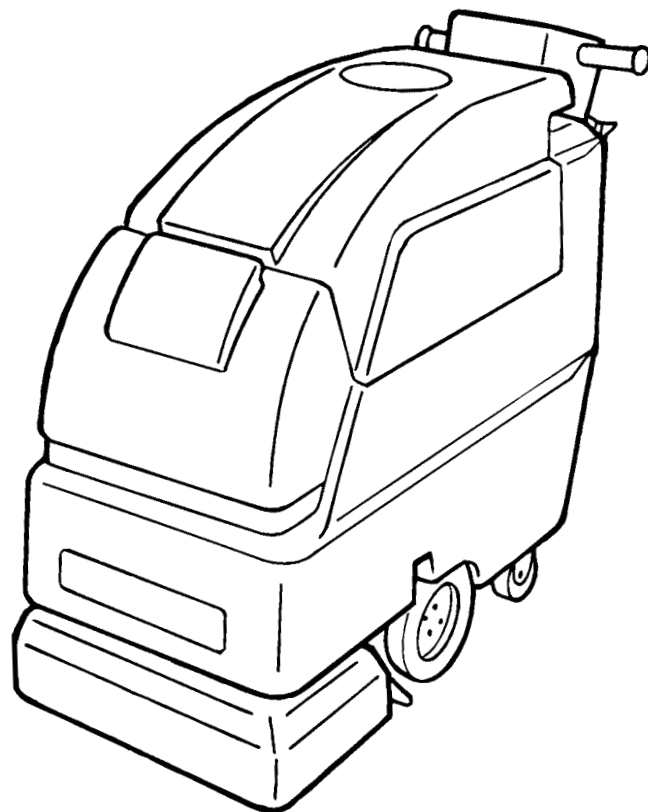


# 1520

Electric Automatic Carpet Extractor

**Model No.:**  
**607649**

**Operator and Parts Manual**



**TENNANT COMPANY**  
**Commercial Products**  
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**607311**  
**Rev. 01 (10-01)**

# OPERATION

This manual is furnished with each new model. It provides necessary operation and maintenance instructions and an illustrated parts list.

## Read this manual completely and understand the machine before operating or servicing it.

When ordering replacement parts use the illustrated Parts Lists in this manual. Before ordering parts or supplies, be sure to have your machine model number and serial number handy. Parts and supplies may be ordered by phone or mail from any authorized Service Center or Distributor.

This machine will provide excellent service. However, the best results will be obtained at minimum costs if:

- The machine is operated with reasonable care.
- The machine is maintained regularly - per the machine maintenance instructions provided.
- The machine is maintained with manufacturer supplied or equivalent parts.

## MACHINE DATA

Please fill out at time of installation for future reference.

Model No.- \_\_\_\_\_

Install. Date - \_\_\_\_\_

Serial No.- \_\_\_\_\_

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Specifications and parts are subject to change without notice.

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## SAFETY PRECAUTIONS

This machine is intended for commercial use. It is designed to clean carpets in an indoor environment and is not constructed for any other use. Use only recommended cleaning solutions.

All operators must read, understand, and practice the following safety precautions:

The following safety alert symbols are used throughout this manual as indicated in their descriptions:

**⚠ WARNING:** To warn of hazards or unsafe practices which could result in severe personal injury or death.

**FOR SAFETY:** To identify actions which must be followed for safe operation of equipment.

The following information signals potentially dangerous conditions to the operator or equipment:

### FOR SAFETY:

1. Do not operate machine:
  - Unless trained and authorized.
  - Unless operator manual is read and understood.
  - In flammable or explosive areas.
  - Unless cord is properly grounded.
  - With damaged cord or plug.
  - If not in proper operating condition.
  - In outdoor areas.
  - In standing water.
  - With the use of additional extension cords. Only use manufacturer's extension cord equipped with machine which has proper capacity and is grounded.
2. Before operating machine:
  - Make sure all safety devices are in place and operating properly.
3. When using machine:
  - Do not run machine over cord.
  - Do not pull machine by plug or cord.
  - Do not pull cord around sharp edges or corners.
  - Do not unplug by pulling on cord.
  - Do not stretch cord.
  - Do not handle plug with wet hands.
  - Keep cord away from heated surfaces.
  - Go slow on inclines and slippery surfaces.
  - Report machine damage or faulty operation immediately.
  - Do not carry riders on machine.

- Follow mixing and handling instructions on chemical containers.

### 4. Before leaving or servicing machine:

- Stop on level surface.
- Turn off machine.
- Unplug cord from wall outlet.

### 5. When servicing machine:

- Unplug cord from wall outlet.
- Avoid moving parts. Do not wear loose jackets, shirts, or sleeves.
- Block machine tires before jacking up.
- Use hoist or jack of adequate capacity to lift machine.
- Use manufacturer supplied or approved replacement parts.

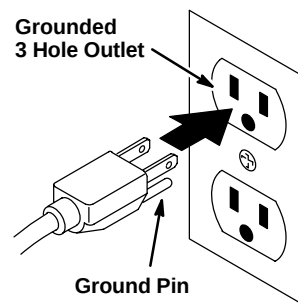
**⚠ WARNING:** Hazardous Voltage. Shock or electrocution can result. Unplug machine before servicing.

**⚠ WARNING:** Flammable materials can cause an explosion or fire. Do not use flammable materials in tank(s).

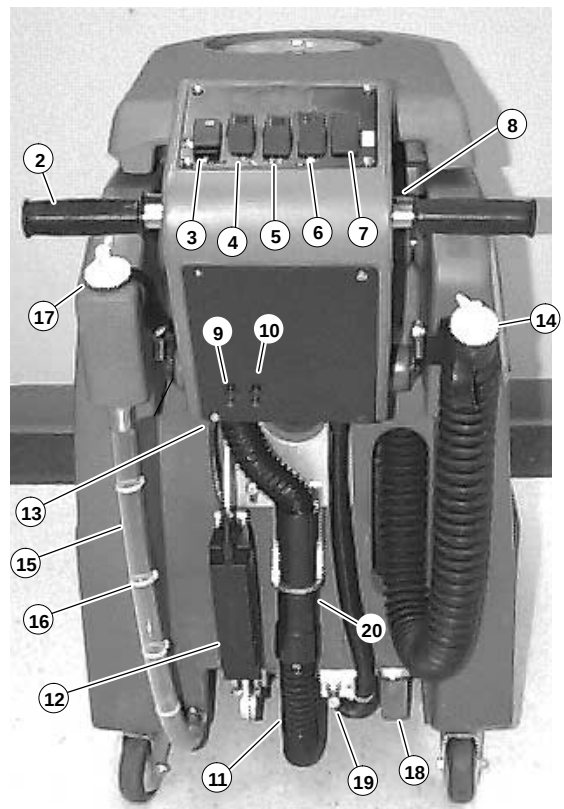
**⚠ WARNING:** Flammable materials or reactive metals can cause an explosion or fire. Do not pick up.

## GROUNDING INSTRUCTIONS

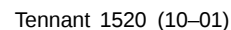
Machine must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electrical current to reduce the risk of electrical shock. This machine is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed in accordance with all local codes and ordinances. Do not remove ground pin; if missing, replace plug before use.



## MACHINE COMPONENTS



- ## CONTROL PANEL SYMBOLS



## MACHINE INSTALLATION

### UNCRATING MACHINE

Carefully check carton for signs of damage. Report any damage at once to carrier.

To uncrate your machine, remove shipping straps and carefully lift or make a ramp using crate boards to remove machine from pallet.

**ATTENTION:** Do not roll machine off pallet, damage may occur.

### MACHINE SETUP

#### FILLING SOLUTION TANK

1. Push machine to filling station. Raise brush/pickup head when transporting.
2. Open solution fill door at front of machine and fill solution tank with up to 98L (26 gal) of clean water, 60°C (140°F) maximum temperature. Or you can use the rear fill port to fill solution tank. Twist off plug and insert hose to fill. The clear tube below the fill port has 19L (5 gal) increment markers to indicate amount of water in tank (Figure 1).



FIG. 1

**⚠ WARNING:** Flammable materials can cause an explosion or fire. Do not use flammable materials in tank(s).

**ATTENTION:** If filling with a bucket, be certain that the bucket is clean to prevent solution line clogs.

3. Add the proper amount of cleaning chemical.  
NOTE: Pre-spraying chemical by use of a pump-up sprayer may be used as an alternative.

**FOR SAFETY:** When using machine, follow mixing and handling instructions on chemical containers.

**ATTENTION:** Use only recommended cleaning chemicals, DO NOT use substitutes. Consult an authorized distributor for recommendations.

### ADJUSTING CONTROL GRIP HEIGHT

The machine has three control grip height settings.

1. Locate two spring loaded levers below console.
2. Squeeze levers together and lift or lower control grips to a comfortable operating height (Figure 2).

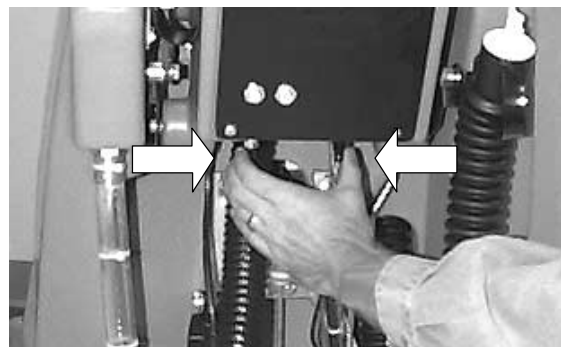


FIG. 2

### CONNECTING MACHINE TO POWER SOURCE

1. Connect the 23 m (75 ft) extension cord into the machine's pigtail cord.
2. Plug extension cord into a grounded wall outlet (Figure 3).

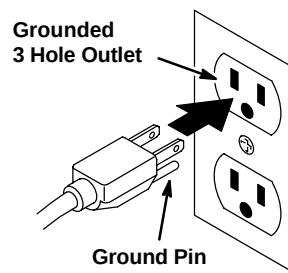


FIG. 3

**FOR SAFETY:** Do not operate machine unless cord is properly grounded.

**FOR SAFETY:** Do not operate machine with the use of additional extension cords. Only use manufacturer's extension cord equipped with machine which has proper capacity and is grounded.

3. Attach belt clip to power cord (Figure 4).

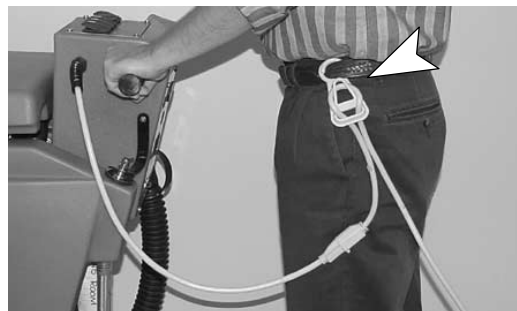


FIG. 4

# OPERATION

## MACHINE OPERATION

### PRE-OPERATION CHECKS

- Vacuum floor and remove any debris.
- Inspect power cord for damage. Make sure power cord is properly grounded.
- Check that spray bar is installed (See Weekly Maintenance).
- Check that inline strainer filter is installed.
- Inspect spray tips for proper spray pattern (See Weekly Maintenance).

**FOR SAFETY: Do not operate machine unless operator manual is read and understood.**

1. Turn main power switch on.
2. Lower brush to floor by depressing the Brush/Pickup Head UP/DOWN switch (Figure 5).



FIG. 5

3. Position the Interim/Restorative switch to the desired cleaning mode (Figure 6).



FIG. 6



**Interim Cleaning Mode:** Use this mode for routine carpet surface cleaning. This mode will allow you to operate the machine up to a cleaning pace of approximately 30m (100 ft) per minute.

**NOTE:** Restorative cleaning must be done on a regular basis in order for interim cleaning to be effective.



**Restorative Cleaning Mode:** Use this mode for restoring heavily soiled carpet areas. You must operate the machine at a cleaning pace of approximately 15m (50 ft) per minute for optimum cleaning results. Turn the speed control knob just shy of half way for a pace of approximately 15m (50 ft) per minute.

**NOTE:** The solution flow rate is regulated per cleaning mode. Interim Cleaning Mode = 2.3L (77 oz.) per minute. Restorative Cleaning Mode = 4.1 L (139 oz.) per minute.

4. Turn the vacuum and pump switches on.

**NOTE:** The brush and pump will start once control grips are rotated.

5. Before you begin cleaning, turn speed control knob to slowest speed (Figure 7).



FIG. 7

6. To begin cleaning, rotate control grips completely forward and gradually turn speed control knob to desired cleaning speed (Figure 7).



**WARNING: Flammable materials or reactive metals can cause an explosion or fire. Do not pick up.**

7. To stop machine, release control grips.
8. After cleaning carpets, allow sufficient time for carpet to dry. Use a carpet blower to reduce drying time.

## WHILE OPERATING MACHINE

1. Periodically check for foam buildup in recovery tank (*look through clear lid*). If excessive foam buildup begins to develop, pour a recommended foam control solution into recovery tank.

**ATTENTION: Do not allow foam or water to enter float shut-off screen, vacuum motor damage will result. Foam will not activate float shut-off screen. Vacuum motor damage due to foam or water is not covered under the warranty.**

2. Always operate at a slower speed when cleaning around walls or obstacles.
3. Always reduce speed to maintain control when turning machine.
4. Overlap each pass by 50mm (2 in).
5. Before reaching end of cleaning path, turn off pump switch and continue to drive machine forward to extract solution.
6. While cleaning, view clear hose gallon marker for remaining cleaning solution. Each mark on hose indicates 19L (5 gal).
7. When solution tank runs dry, turn off pump and vacuum switches, raise brush, and transport machine to draining area (See Draining Tanks).
8. If the cleaning path leaves streaks, spray tip cleaning is required (See Weekly Maintenance).

**⚠ WARNING: Flammable materials or reactive metals can cause an explosion or fire. Do not pick up.**

**FOR SAFETY: When using machine, do not run machine over cord. Do not pull cord around sharp edges or corners and do not stretch cord.**

## CIRCUIT BREAKERS

The machine is equipped with two circuit breakers, Drive Motor (4.5 Amp – resettable) and Brush Motor (2.0 Amp – resettable), to protect machine from damage. If a circuit breaker should trip, determine cause, allow motor to cool and then manually reset breaker (Figure 8).

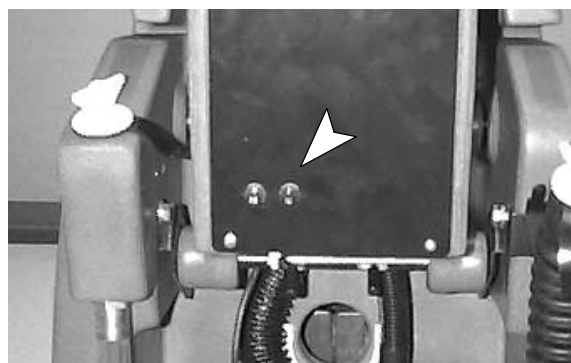


FIG. 8

## OPTIONAL ACCESSORY TOOL SETUP AND OPERATION

Machine is equipped with accessory tool connections. Accessory tool enables you to reach areas that the machine is unable, such as alcoves, stairs and corners (See Options at back of manual).

1. Vacuum area before cleaning.
2. Fill solution tank and add cleaning chemical (See Filling Solution Tank). NOTE: Pre-spraying chemical by use of a pump-up sprayer may be used as an alternative.

**⚠ WARNING: Flammable materials can cause an explosion or fire. Do not use flammable materials in tank(s).**

3. Disconnect lower vacuum hose at rear of machine and replace with accessory vacuum hose (Figure 9).



FIG. 9

4. Connect solution hose to accessory tool coupler, located at lower rear of machine (Figure 10).



FIG. 10

## OPERATION

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5. Connect accessory tool to solution hose and vacuum hose (Figure 11).

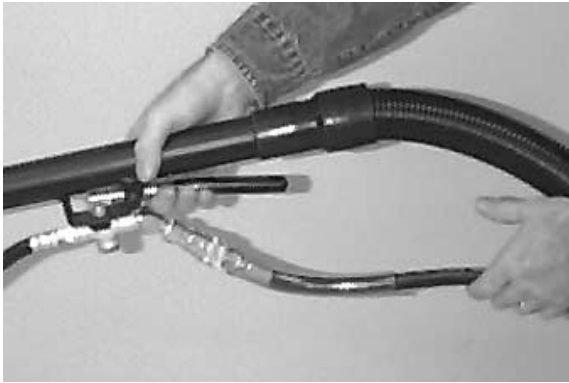


FIG. 11

6. Plug cord into a grounded wall outlet.

**FOR SAFETY: Do not operate machine unless cord is properly grounded.**

7. Turn on main, pump and vacuum switches.
8. Take accessory tool and begin cleaning at top of area and work backwards toward machine.

**⚠ WARNING: Flammable materials or reactive metals can cause an explosion or fire. Do not pick up.**

9. Place accessory tool head on area to be cleaned; squeeze trigger, apply downward pressure on accessory tool head, and slowly pull tool backwards. Release trigger 152mm (6 in) from end of stroke (Figure 12).



FIG. 12

10. When returning for next stroke, push accessory tool forward over same path with trigger released. Continue this pull and push method with a 2 to 4 in. overlap of each stroke.

**NOTE: For heavily soiled areas, repeat stroke or change angle of stroke.**

11. Empty recovery tank when solution tank runs dry (See Draining Tanks).

**ATTENTION: Do not allow foam or water to enter vacuum standpipe, vacuum motor damage will result. Float shut-off screen will not keep foam out of standpipe. Vacuum damage due to foam or water is not covered by warranty.**

---

## DRAINING TANKS

---

**⚠ WARNING: Hazardous voltage. Shock or electrocution can result. Unplug machine before servicing.**

**NOTE: Raise brush/pickup head when transporting machine to floor drain.**

---

### DRAINING RECOVERY TANK

---

Always empty recovery tank each time you refill solution tank. To drain recovery tank, perform the following steps:

**ATTENTION: If recovery tank is not emptied between fill-ups, foam or water will enter vacuum standpipe and damage vacuum motor. Float shut-off screen will not keep foam out of standpipe.**

1. Turn machine off and unplug cord from wall outlet.
2. Remove drain hose from holder, position hose over floor drain and twist off drain hose plug. To completely drain recovery tank, hinge open tank and flip up tank support stand to rest tank on (Figure 13).

**NOTE: If using a bucket for filling and draining make sure you use different buckets. This will prevent possible solution line clogs.**



FIG. 13

3. Rinse out recovery tank after each use. This will prevent a foul odor and residue buildup in tank. Unscrew clear lid on recovery tank and rinse out the tank with hose. Be careful not to spray water into float shut-off screen.
4. Replace drain hose plug tightly when tank is empty.

## DRAINING SOLUTION TANK

To drain leftover cleaning solution from solution tank, follow steps below:

1. Turn machine off and unplug cord from wall outlet.
2. Pull clear hose off hose barb at rear of machine and drain solution into floor drain or bucket (Figure 14).



FIG. 14

3. Rinse out solution tank and solution system with clean water after each use. This will prevent clogging due to chemical buildup. Use clear hose to drain solution tank when rinsing.
4. When reconnecting clear hose to hose barb, be certain hose is completely pushed onto hose barb.

## MACHINE MAINTENANCE

To keep machine in good working condition, simply follow the daily, weekly, and monthly maintenance procedures.

**⚠ WARNING: Hazardous voltage. Shock or electrocution can result. Unplug machine before servicing.**

**ATTENTION: Contact an Authorized Service Center for machine repairs. Machine repairs performed by other than an authorized person will void your warranty.**

### DAILY MAINTENANCE (Every 4 Hours of Operation)

1. Inspect power cord and cord grip for damage. Replace if damaged.
2. Always coil extension cord neatly after each use.
3. Remove float shut-off screen and rinse off. Screen is located in recovery tank (Figure 15).



FIG. 15

4. Drain and rinse tanks thoroughly. After draining tanks, hinge recovery tank open and remove any clogging debris in inlet hole if necessary.
5. Clean machine housing with a nonabrasive, nonsolvent cleaner.
6. Inspect brush for entangled debris.

# OPERATION

## WEEKLY MAINTENANCE (Every 20 Hours of Operation)

1. Remove inline strainer filter and rinse out. Make sure solution tank is empty before removing filter. Filter is located under machine at rear (Figure 16).

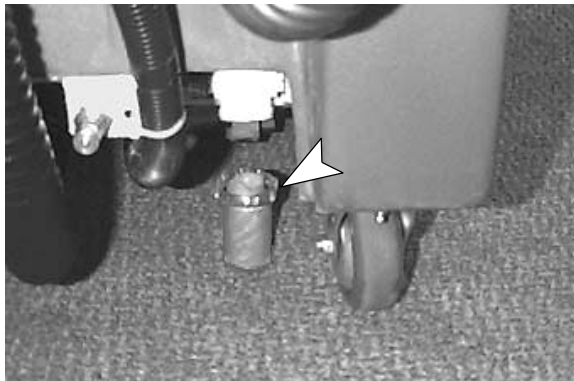


FIG. 16

2. Inspect spray tips for proper spray pattern:
  - a. Lower brush/pickup head and remove detachable spray bar from brush base. Do not disconnect bar from quick coupler. Raise brush after removing spray bar (Figure 17).
  - b. Turn the speed control knob to slowest setting to minimize machine travel during inspection.
  - c. Turn the main power and pump switches on.
  - d. Holding the spray bar off the floor, briefly rotate control grips and observe spray pattern. Pattern should fan out evenly across the width of the spray bar (Figure 17).
  - e. Clean or replace defective twist-out spray tips if necessary (See Monthly Maintenance).



FIG. 17

## MONTHLY MAINTENANCE (Every 80 Hours of Operation)

1. Flush chemical buildup from tanks and solution lines. Follow procedure below:
  - a. Drain all water from machine.
  - b. Over a floor drain, carefully jack up the machine so the drive wheels are just off the floor. Use a block of wood for jacking. Make sure to stay clear of the brush area when jacking (Figure 18). The machine drive wheels must spin freely during the flushing procedure.

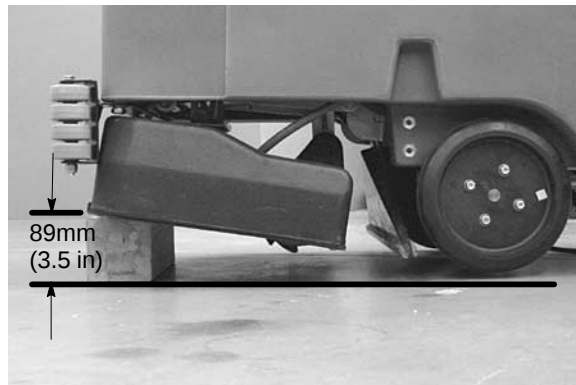


FIG. 18

- c. Pour 750 ml (24 oz) of an acetic acid solution with 11.3 ltr (3 gal) of hot water into solution tank; do not exceed 60°C (140°F).

**FOR SAFETY: When using machine, follow mixing and handling instructions on chemical containers.**

**⚠ WARNING: Flammable materials can cause an explosion or fire. Do not use flammable materials in tank(s).**

- d. Turn on the main and pump switches and select the Restorative Cleaning Mode.
- e. Rotate the control grips and hold for one to two minutes. As a safety precaution, turn the speed control knob to the slowest setting.
- f. Shut off power, unplug machine and let machine set overnight to allow acetic acid solution to breakdown chemical buildup.
- g. Next day, while machine is still jacked up, disperse remaining acetic acid solution.
- h. Then rinse out solution tank and solution lines with clean water.

- Remove detachable spray bar from brush base. Remove twist-out spray tips from spray bar and soak in 118ml (4 oz) acetic acid solution for up to 6 hours. After soaking tips, use a small brush to remove excess alkaline and rinse thoroughly. DO NOT use pointed objects to unplug spray tips (Figure 19).



FIG. 19

- Lubricate caster grease fittings with a water resistant grease.
- Lubricate all linkage pivot points with silicone spray, then coat with a water resistant grease to maintain a smooth operation.
- Check machine for water leaks and loose nuts and bolts.

## QUARTERLY MAINTENANCE (Every 250 Hours of Operation)

Check drive and vacuum motors for carbon brush wear, replace brushes if worn to a length of 10mm (0.38 in) or less.

Contact an Authorized Service Center for motor maintenance.

## TRANSPORTING MACHINE

When transporting machine by use of trailer or truck, be certain to follow tie-down procedures below:

**FOR SAFETY: When using machine, go slow on inclines and slippery surfaces.**

- Raise brush/pickup head.
- Carefully load machine using a recommended loading ramp.
- Position front of machine up against front of trailer or truck. Place a block behind each drive wheel to prevent machine from rolling.

- Secure machine with tie-down straps. It may be necessary to install tie-down brackets to the floor of your trailer or truck.

**NOTE:** Do not use the control grips to secure machine for transporting.

## STORING MACHINE

- Before storing machine, rinse tanks and drain machine of all water.
- Store machine in a dry area.
- Remove recovery lid to promote air circulation.
- Raise the brush/pickup head off the floor.
- If storing machine in freezing temperatures, be certain to circulate an undiluted anti-freeze solution throughout the machine.

**ATTENTION:** Do not allow machine to freeze without antifreeze. Damage due to freezing temperatures is not covered by warranty.

**ATTENTION:** Do not expose machine to rain and store indoors.

## RECOMMENDED STOCK ITEMS

Refer to Parts List section for recommended stock items. Stock Items are clearly identified with a bullet preceding the parts description. See example below:

| Ref. | Part No. | Description      | Qty. |
|------|----------|------------------|------|
| 1    | 701103   | ASM., STANDPIPE  | 1    |
| 2    | 180613   | ● FLOAT, SHUTOFF | 1    |
| 3    | 230187   | NIPPLE           | 1    |
| 4    | 101714   | ● GASKET         | 1    |
| 5    | 210240   | NUT, FLANGED     | 1    |

## OPERATION

---

### TROUBLE SHOOTING

| PROBLEM                                 | CAUSE                                             | SOLUTION                                                                            |
|-----------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------|
| No power                                | Faulty main power switch.                         | Contact Service Center.                                                             |
|                                         | Power cord disconnected.                          | Connect power cord.                                                                 |
|                                         | Faulty power supply cord.                         | Replace power supply cord.                                                          |
|                                         | Building circuit breaker has tripped.             | Determine cause and reset circuit breaker in building.                              |
| Brush motor does not operate            | Pump switch is not activated.                     | Turn on pump switch.                                                                |
|                                         | Control grips are not rotated.                    | Rotate control grips.                                                               |
|                                         | Brush circuit breaker has tripped.                | Remove obstruction from brush and reset brush circuit breaker button.               |
|                                         | Faulty brush motor or wiring.                     | Contact Service Center.                                                             |
|                                         | Carbon brushes worn.                              | Contact Service Center.                                                             |
|                                         | Loose or broken belt.                             | Replace, or contact Service Center.                                                 |
| Vacuum motor does not operate           | Faulty vacuum switch.                             | Contact Service Center.                                                             |
|                                         | Vacuum motor thermal overload activated.          | Remove obstruction and wait 20 minutes for motor to cool.                           |
|                                         | Faulty vacuum motor or wiring.                    | Contact Service Center.                                                             |
|                                         | Carbon brushes worn.                              | Contact Service Center.                                                             |
| Drive motor does not operate            | Drive motor circuit breaker has tripped.          | Determine cause and reset breaker.                                                  |
|                                         | Faulty speed control board or connection.         | Contact Service Center.                                                             |
|                                         | Faulty drive motor.                               | Contact Service Center.                                                             |
|                                         | Faulty wiring.                                    | Contact Service Center.                                                             |
|                                         | Worn carbon brushes.                              | Contact Service Center.                                                             |
| Drive motor operates, but not correctly | Faulty potentiometer or speed control board.      | Contact Service Center.                                                             |
|                                         | Loose wire connection.                            | Contact Service Center.                                                             |
| Uneven or no solution spray             | Twist-out spray tips are plugged.                 | Remove and clean.                                                                   |
|                                         | Control grips are not rotated.                    | Rotate control grips.                                                               |
|                                         | Solution line or solution tank filter is clogged. | Remove hose and blow compressed air through it. Flush solution tank after each use. |
|                                         | Inline strainer filter is plugged.                | Drain solution tank, remove filter and clean. Located under machine at rear.        |
|                                         | Faulty pump switch.                               | Contact Service Center.                                                             |
|                                         | Faulty pump or solenoid.                          | Contact Service Center.                                                             |

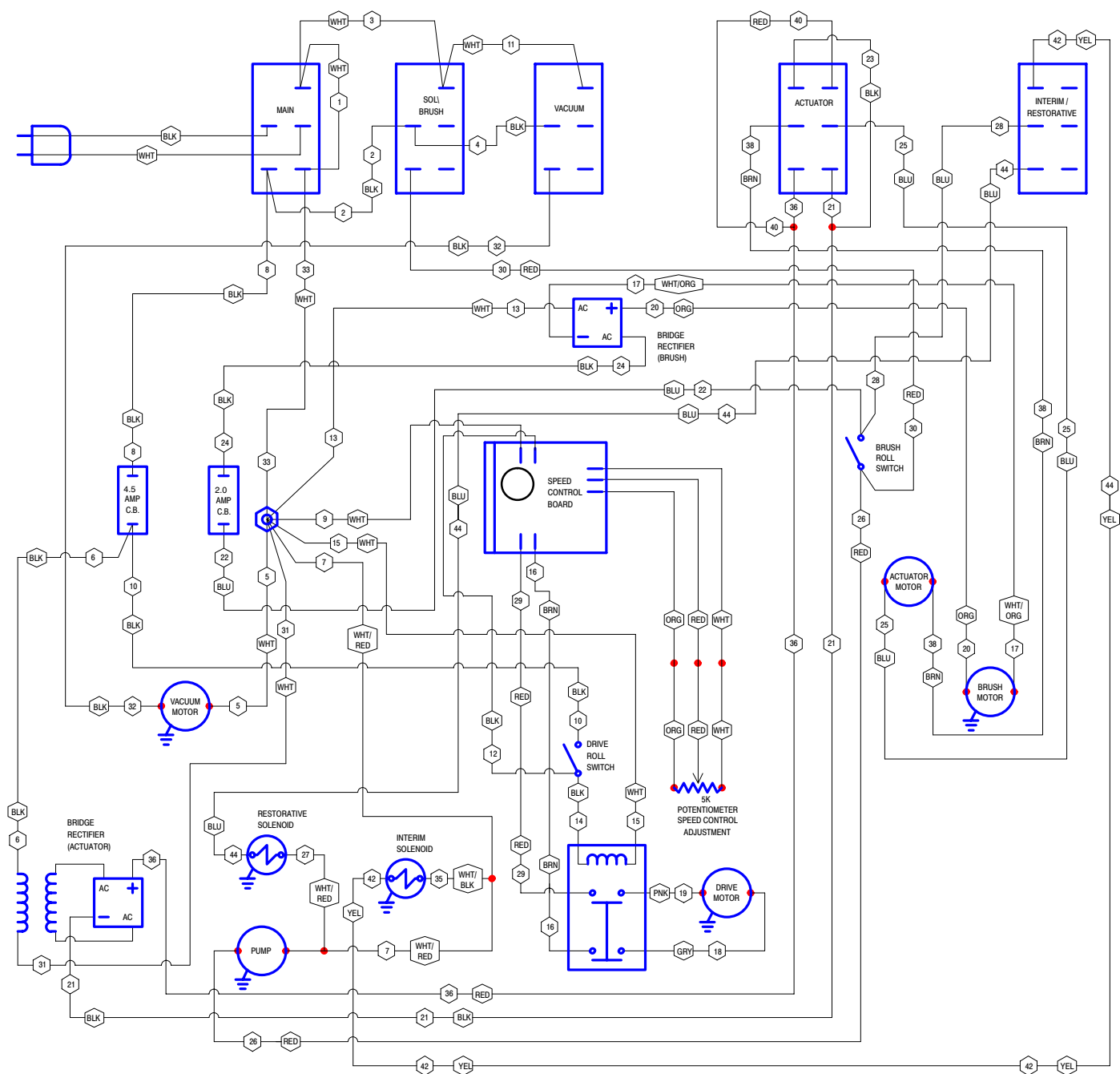
## TROUBLE SHOOTING –Continued

| PROBLEM              | CAUSE                                                  | SOLUTION                                                                             |
|----------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------|
| Poor vacuum recovery | Recovery tank is full.                                 | Empty recovery tank.                                                                 |
|                      | Float shut-off screen inside recovery tank is clogged. | Remove screen and clean.                                                             |
|                      | Pickup head is clogged with debris.                    | Remove debris, use coat hanger.                                                      |
|                      | Pickup head is not sealed to carpet.                   | Adjust pickup head.                                                                  |
|                      | Faulty actuator.                                       | Contact Service Center.                                                              |
|                      | Vacuum hose connections are loose or hose has a hole.  | Push hose cuffs firmly on connections. Replace hose if damaged.                      |
|                      | Vacuum hose is clogged with debris.                    | Remove clogged debris.                                                               |
|                      | Recovery tank inlet hole is obstructed.                | Empty recovery tank and tilt tank sideways to access inlet hole, remove obstruction. |
|                      | Tank gasket is defective.                              | Replace gasket.                                                                      |
|                      | Drain hose plug is loose.                              | Tighten drain plug.                                                                  |
|                      | Recovery tank lid is loose.                            | Tighten lid.                                                                         |
|                      | Vacuum motor is loose.                                 | Contact Service Center.                                                              |

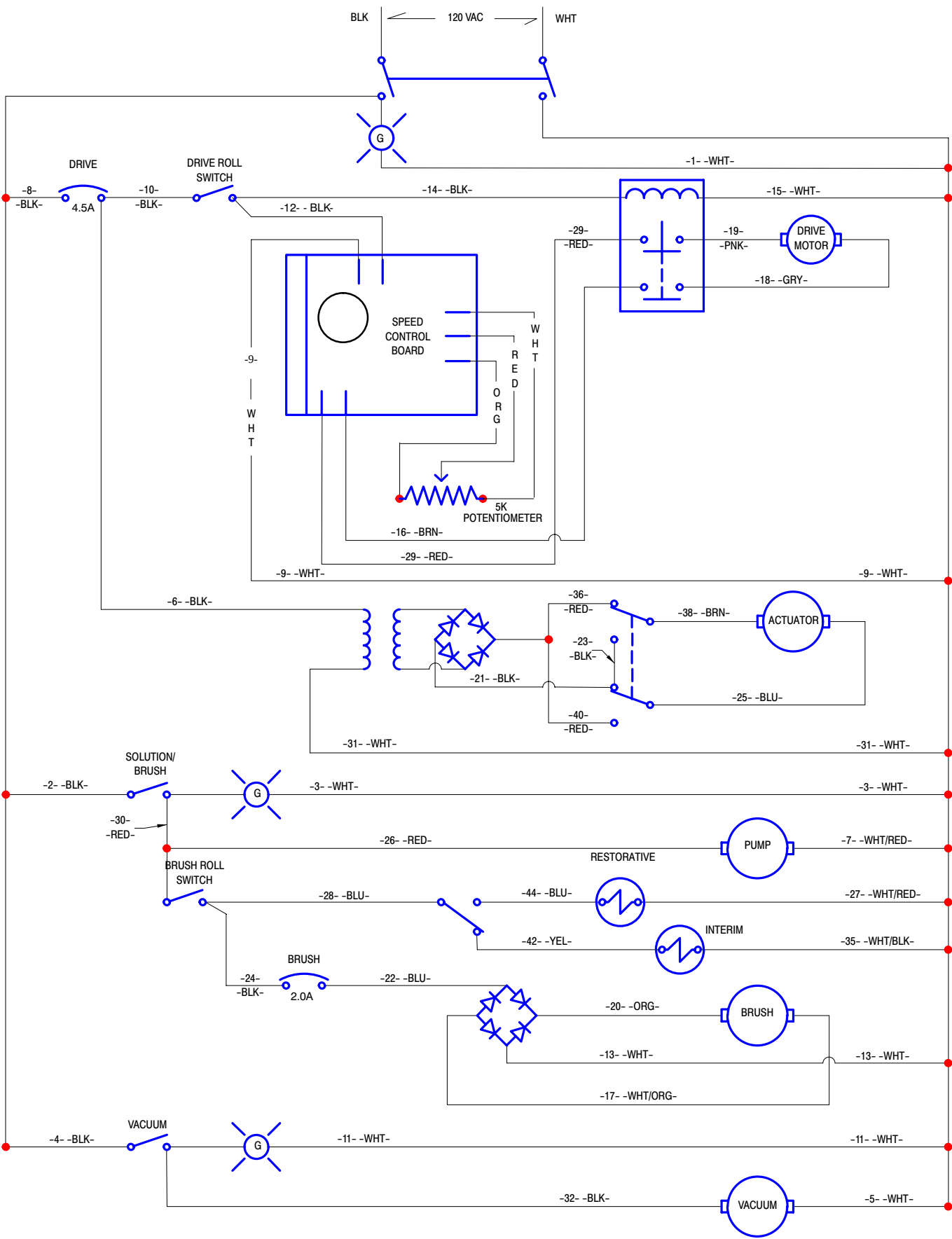
## SPECIFICATIONS

| MODEL                                               | 1520                                                                                                        |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| LENGTH                                              | 1270 mm (50 in)                                                                                             |
| WIDTH                                               | 559 mm (22 in)                                                                                              |
| HEIGHT                                              | 990 mm (39 in)                                                                                              |
| WEIGHT                                              | 124 Kg (273.5 lb)                                                                                           |
| SOLUTION TANK CAPACITY                              | 98 L (26 Gal)                                                                                               |
| RECOVERY TANK CAPACITY                              | 64 L (17 Gal)                                                                                               |
| SPEED CONTROL                                       | Variable Fwd.                                                                                               |
| CLEANING SPEED (MAX)                                | 418.05 m <sup>2</sup> (4,500 sq ft) per hour (Interim Cleaning Mode)                                        |
| CLEANING PATH WIDTH                                 | 559 mm (22 in)                                                                                              |
| PAD PRESSURE                                        | Variable 36–68 Kg (80–150 lb)                                                                               |
| SOLUTION PUMP                                       | 6.9 bar (100 psi) max., 120V                                                                                |
| SOLUTION FLOW RATES                                 | Interim Cleaning Mode = 2.3L (77 oz.) per minute.<br>Restorative Cleaning Mode= 4.1 L (139 oz.) per minute. |
| DRIVE SYSTEM                                        | Transaxle, .2 hp, 72 rpm, 120V                                                                              |
| BRUSH MOTOR                                         | .12hp, 1800 rpm, 120V, .75A, 90W                                                                            |
| VACUUM MOTOR                                        | 1.8hp, 3–stage 5.7 in, 120V, 11A, 1320W                                                                     |
| WATER LIFT                                          | 3048 mm (120 in)                                                                                            |
| DECIBEL RATING AT OPERATOR'S EAR, INDOORS ON CARPET | 84dB(A)                                                                                                     |
| POWER CORD LENGTH                                   | 23 m (75 ft)                                                                                                |

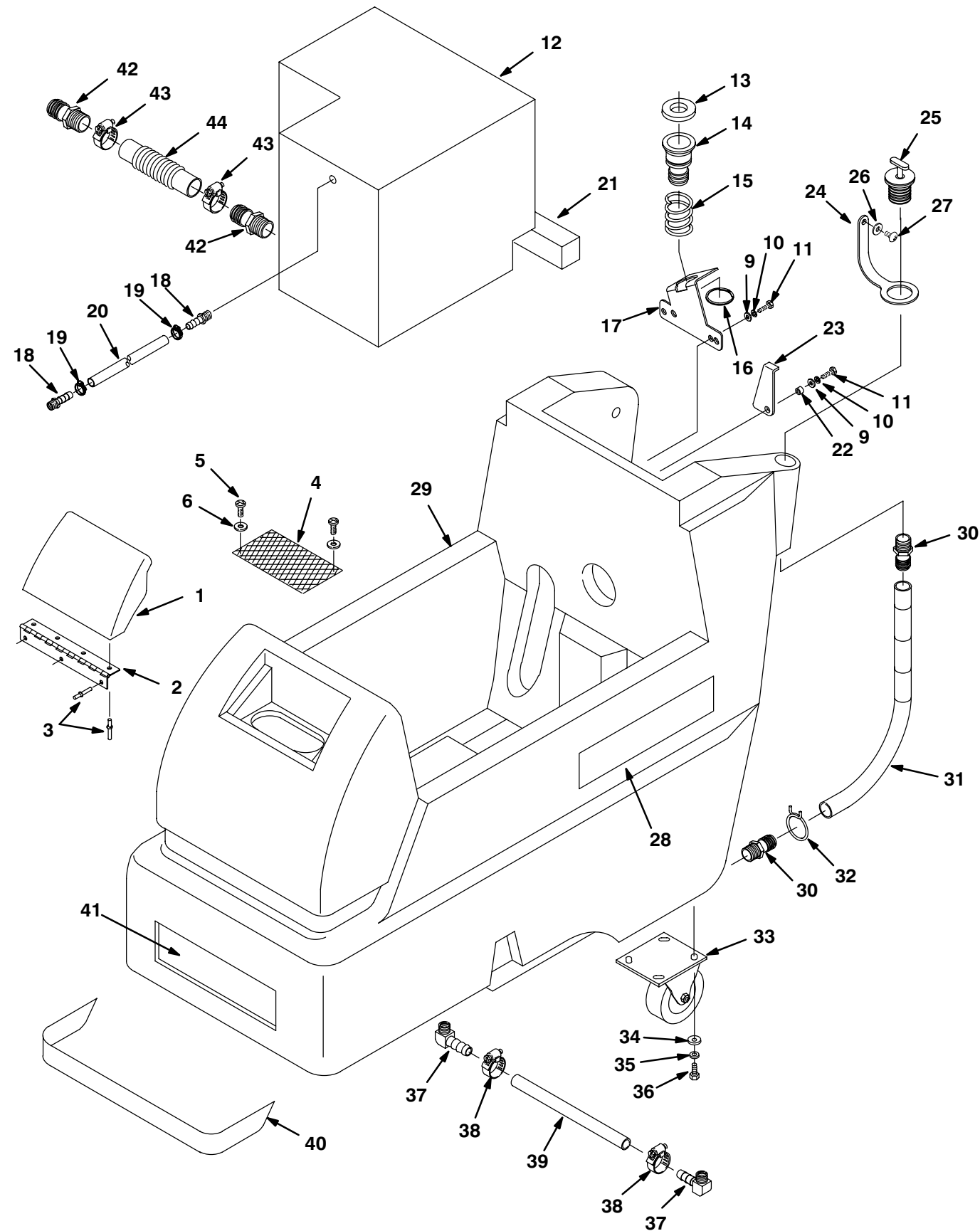
WIRE DIAGRAM 120V



LADDER DIAGRAM 120V



SOLUTION TANK GROUP



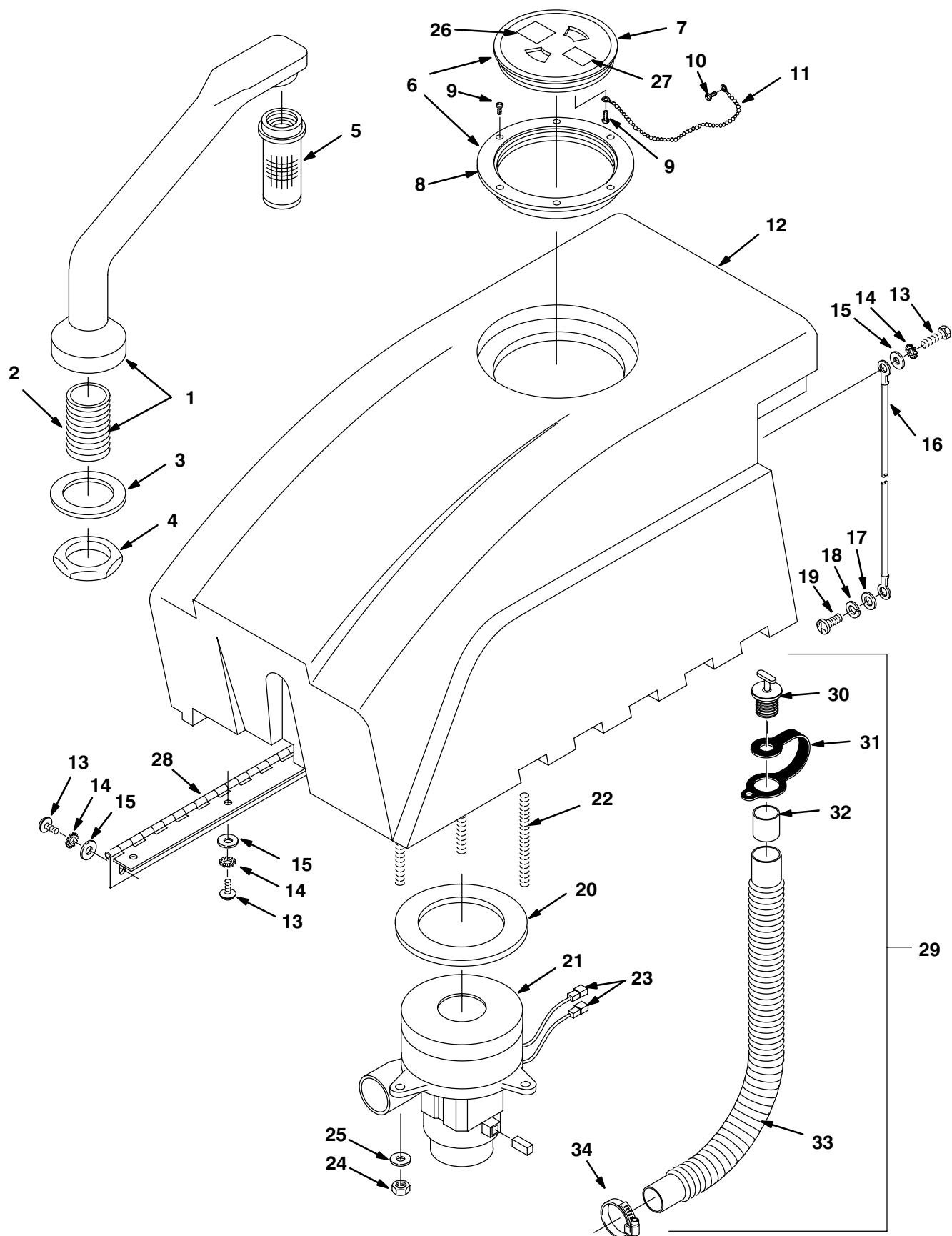
## SOLUTION TANK GROUP

| REF | PART #    | DESCRIPTION                 | QTY. |
|-----|-----------|-----------------------------|------|
| 1   | 607515    | COVER, TANK, TEAL           | 1    |
| 2   | 611068    | HINGE, COVER                | 1    |
| 3   | 140706    | RIVET, POP                  | 7    |
| 4   | 602529    | SCREEN, FILL                | 1    |
| 5   | 3701.6    | SCREW, #6X3/4               | 2    |
| 6   | 140032    | WASHER, FLAT #6             | 2    |
| 7   | 230661    | PLATE, LOCK CONTROL HOUSING | 2    |
| 8   | 611979    | WELDMENT, DRAIN HOSE        | 1    |
| 9   | 140027    | WASHER, FLAT 5/16           | 3    |
| 10  | 140015    | WASHER, LOCK 5/16           | 3    |
| 11  | 200031488 | SCREW, M8X20MM              | 3    |
| 12  | 604308    | TANK, SOLUTION 10GAL        | 1    |
| 13  | 630010    | ●GASKET                     | 1    |
| 14  | 630011    | TUBE, ADAPTER               | 1    |
| 15  | 630267    | SPRING, COMP                | 1    |
| 16  | 630016    | RING, RETAINING             | 1    |
| 17  | 608706    | BRACKET, VAC TUBE           | 1    |
| 18  | 150516    | FITTING, 1/4MX3/8H BARB     | 2    |
| 19  | 140310    | CLAMP, HOSE 5/16 – 7/8      | 2    |
| 20  | 607308    | HOSE, 3/8" X 8"             | 1    |
| 21  | 604265    | COUNTERWEIGHT 34LBS         | 1    |
| 22  | 611418    | SLEEVE                      | 1    |

| REF | PART # | DESCRIPTION              | QTY. |
|-----|--------|--------------------------|------|
| 23  | 230925 | SUPPORT, RECOVERY TANK   | 1    |
| 24  | 600476 | STRAP, PLUG              | 1    |
| 25  | 621324 | ●PLUG, EXPANSION         | 1    |
| 26  | 140011 | WASHER, FLAT 3/16        | 1    |
| 27  | 140350 | SCREW, #10X1/2           | 1    |
| 28  | 608154 | DECAL, 1520              | 2    |
| 29  | 607552 | TANK, SOLUTION, TEAL     | 1    |
| 30  | 150529 | FITTING, 3/4MX3/4H       | 2    |
| 31  | 607983 | HOSE, W/LEVEL INDICATORS | 1    |
| 32  | 608915 | CLAMP, HOSE 2 WIRE       | 1    |
| 33  | 612056 | CASTER 4"                | 2    |
| 34  | 140036 | WASHER, FLAT 3/8         | 8    |
| 35  | 140333 | WASHER, LOCK M10         | 8    |
| 36  | 140277 | SCREW, M10X20MM          | 8    |
| 37  | 150419 | ELBOW, 1/4M X 3/8H 90°   | 2    |
| 38  | 140310 | CLAMP                    | 2    |
| 39  | 607310 | HOSE, 3/8" X 17.5"       | 1    |
| 40  | 600730 | DECAL, RECESS            | 1    |
| 41  | 120192 | DECAL, "TENNANT"         | 1    |
| 42  | 150530 | FITTING, 1"MX1–1/4H BARB | 2    |
| 43  | 608915 | CLAMP, HOSE 2 WIRE       | 2    |
| 44  | 604279 | HOSE, DRAIN              | 1    |

## ● RECOMMENDED STOCK ITEMS

Tennant 1520 (10-01)



## RECOVERY TANK GROUP

| REF | PART #    | DESCRIPTION                 | QTY. |
|-----|-----------|-----------------------------|------|
| ▽ 1 | 701103    | ASM., STANDPIPE             | 1    |
| ▲ 2 | 606088    | NIPPLE                      | 1    |
| 3   | 101714    | ●GASKET                     | 1    |
| 4   | 210240    | NUT, FLANGED                | 1    |
| 5   | 180613    | ●FLOAT, SHUT-OFF            | 1    |
| ▽ 6 | 100102    | ●ASM., LID CLEAR W/STD HOLE | 1    |
| ▲ 7 | 100105    | ●LID, CENTER CLEAR ONLY     | 1    |
| ▲ 8 | 100109    | ●LID, OUTER RING ONLY       | 1    |
| 9   | 140826    | SCREW, #6X3/4               | 7    |
| 10  | 3701.6    | SCREW, #6X3/8               | 1    |
| 11  | 230513    | ASM., CHAIN                 | 1    |
| 12  | 607554    | TANK, RECOVERY, TEAL        | 1    |
| 13  | 578187000 | SCREW, M6X12MM              | 12   |
| 14  | 140052    | WASHER, LOCK 1/4            | 12   |
| 15  | 140000    | WASHER, FLAT 1/4            | 15   |
| 16  | 140960    | CABLE, SUPPORT              | 1    |
| 17  | 140027    | WASHER, FLAT 5/16           | 1    |
| 18  | 140015    | WASHER, LOCK 5/16           | 1    |

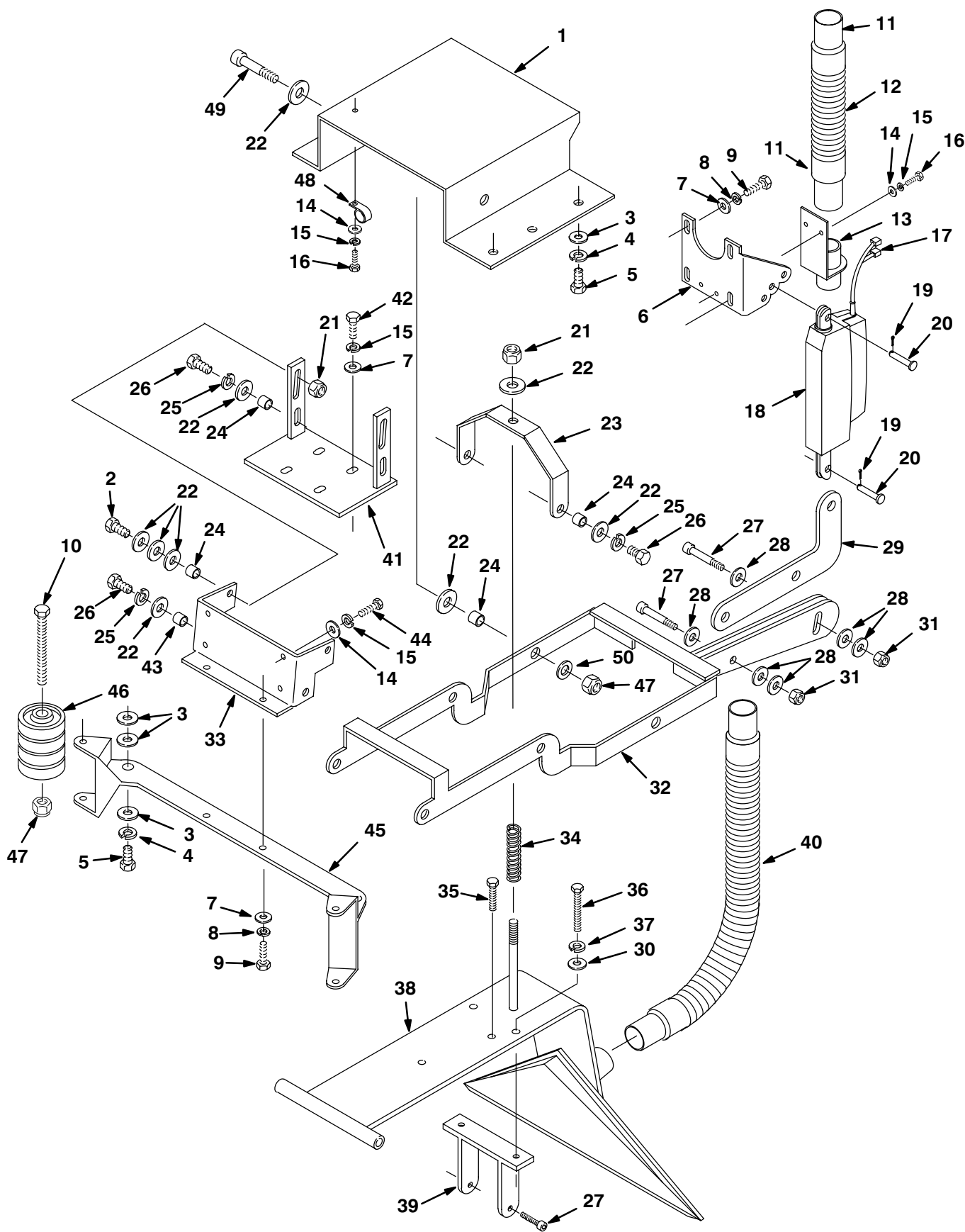
| REF  | PART #    | DESCRIPTION                   | QTY. |
|------|-----------|-------------------------------|------|
| 19   | 200031488 | SCREW, M8X20MM                | 1    |
| 20   | 100038    | ●GASKET, VAC MOTOR            | 1    |
| 21   | 130996    | ●MOTOR, VAC 5.7 /3 STAGE 120V | 1    |
|      | 602741    | CARBON BRUSH, SET OF 2        | 2    |
| 22   | 140353    | M6X108 STUD                   | 3    |
| 23   | 130133    | TERMINAL, MALE DSCNT          | 2    |
| 24   | 140284    | NUT, M6                       | 3    |
| 25   | 140000    | WASHER, FLAT                  | 3    |
| 26   | 120906    | DECAL, IMPORTANT DRAIN...     | 1    |
| 27   | 578729    | DECAL, READ MANUAL            | 1    |
| 28   | 600311    | ●HINGE, RECOVERY TANK         | 1    |
| ▽ 29 | 603217    | ASM., DRAIN HOSE              | 1    |
| ▲ 30 | 621324    | PLUG, EXPANSION               | 1    |
| ▲ 31 | 578441    | STRAP                         | 1    |
| ▲ 32 | 630394    | SLEEVE                        | 1    |
| ▲ 33 | 630068    | HOSE, DRAIN                   | 1    |
| ▲ 34 | 140308    | CLAMP                         | 1    |

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

● RECOMMENDED STOCK ITEMS

LIFT GROUP



## LIFT GROUP

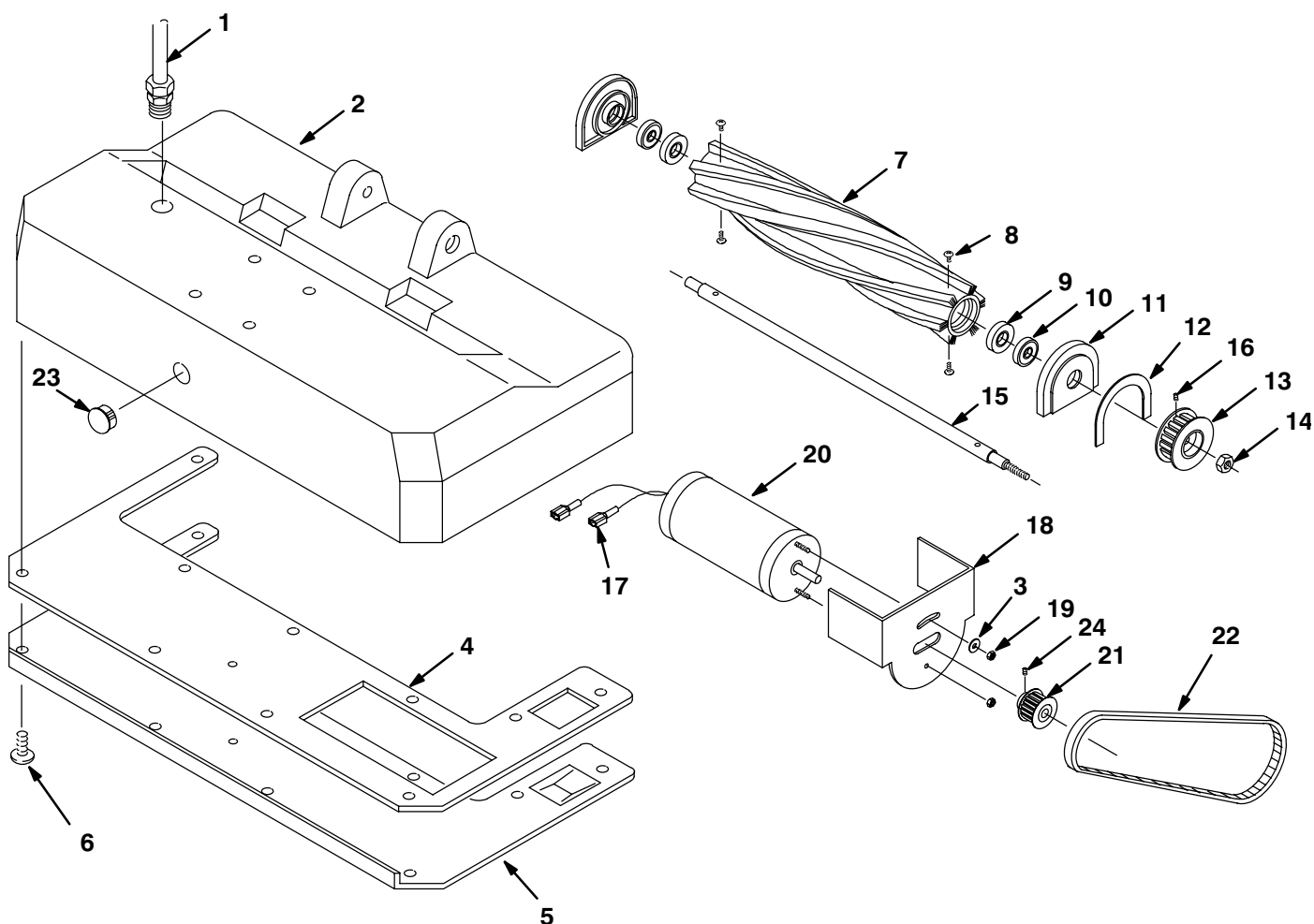
| REF | PART #    | DESCRIPTION                  | QTY. |
|-----|-----------|------------------------------|------|
| 1   | 612782    | PLATE, BASE TRANSAXLE        | 1    |
| 2   | 140236    | SCREW, 1/2-13X1 1/4          | 2    |
| 3   | 140028    | WASHER, FLAT                 | 8    |
| 4   | 140333    | WASHER, LOCK                 | 4    |
| 5   | 140277    | SCREW, M10X1.5X20MM          | 4    |
| 6   | 600292    | BRACKET, ACTUATOR            | 1    |
| 7   | 140027    | WASHER, FLAT                 | 10   |
| 8   | 140015    | WASHER, LOCK                 | 8    |
| 9   | 200031488 | SCREW, M08X20MM              | 8    |
| 10  | 590248    | SCREW, 3/8-16X4.75           | 2    |
| 11  | 160486    | ●CUFF, HOSE                  | 1    |
| 12  | 160426    | ●HOSE, VAC 1.5X15" W/CUFF    | 1    |
| 13  | 603084    | BRACKET, VAC HOSE            | 1    |
| 14  | 140000    | WASHER, FLAT                 | 3    |
| 15  | 140016    | WASHER, LOCK                 | 11   |
| 16  | 200031432 | SCREW, M06X10MM              | 3    |
| 17  | 130129    | TERMINAL, FM DSCNT 22-18 RED | 2    |
| 18  | 600952    | ●ACTUATOR, 24VDC             | 1    |
| 19  | 604076    | PIN, CLEVIS                  | 2    |
| 20  | 578421    | PIN, COTTER                  | 2    |
| 21  | 140516    | NUT, NYLOCK                  | 3    |
| 22  | 140045    | WASHER, FLAT                 | 17   |
| 23  | 602567    | BRACKET, SPRING              | 1    |
| 24  | 602882    | BUSHING                      | 8    |
| 25  | 140024    | WASHER, LOCK                 | 6    |

| REF | PART # | DESCRIPTION                | QTY. |
|-----|--------|----------------------------|------|
| 26  | 140352 | SCREW, M12X1.75X25         | 6    |
| 27  | 140564 | BOLT, SHOULDER 3/8X3/4     | 4    |
| 28  | 140036 | WASHER, FLAT               | 6    |
| 29  | 603044 | PLATE, ACTUATOR LIFT       | 1    |
| 30  | 140027 | WASHER, FLAT               | 2    |
| 31  | 140546 | NUT, NYLOCK                | 2    |
| 32  | 612781 | LIFT BRACKET, EXTRACTOR    | 1    |
| 33  | 602977 | BRACKET, MOUNT CARPET TOOL | 1    |
| 34  | 602565 | SPRING, CARPET TOOL        | 1    |
| 35  | 140221 | SCREW, 5/16-18X1 1/4       | 2    |
| 36  | 140220 | SCREW, 5/16-18X2 1/2       | 2    |
| 37  | 140015 | WASHER, LOCK               | 4    |
| 38  | 600306 | TOOL, CARPET 22"           | 1    |
| 39  | 603046 | BRACKET, BASE LEVELER      | 1    |
| 40  | 160613 | ●HOSE, VAC 1.5X30" W/CUFFS | 1    |
| 41  | 600307 | BRACKET, MOUNT EXTRACTOR   | 1    |
| 42  | 140226 | SCREW, 5/16-18X5/8         | 4    |
| 43  | 140139 | SLEEVE                     | 2    |
| 44  | 140272 | SCREW, M6X1.0X16MM         | 4    |
| 45  | 603093 | BRACKET, BUMPER WHEEL      | 1    |
| 46  | 630477 | WHEEL, 2" GRAY             | 8    |
| 47  | 140515 | NUT, NYLOCK                | 4    |
| 48  | 140314 | CLAMP, INSULATED 3/4 ID    | 2    |
| 49  | 36758  | BOLT, SHOULDER             | 2    |
| 50  | 140046 | WASHER, 1.00X.392X.090     | 2    |

## ● RECOMMENDED STOCK ITEMS

# PARTS LIST

## BRUSH BASE GROUP



| REF  | PART #    | DESCRIPTION             | QTY. |
|------|-----------|-------------------------|------|
| 1    | 603193    | CORD, 16/2X33 SJT       | 1    |
| 2    | 101106    | BASE, 22"               | 1    |
| 3    | 200315016 | WASHER, FLAT            | 1    |
| 4    | 100157    | GASKET, BASE PLATE      | 1    |
| 5    | 230401.BK | PLATE, BASE             | 1    |
| 6    | 140197    | SCREW, 10-24X3/8 TRSPHL | 11   |
| ▽    | 700422    | ●ASM., BRUSH            | 1    |
| ▲ 7  | 240063    | BRUSH, CYLINDER         | 1    |
| ▲ 8  | 140554    | SCREW, 1/4-20X3/4       | 4    |
| ▲ 9  | 100049    | SEAL, BRUSH BEARING     | 2    |
| ▲ 10 | 140125    | BEARING, BRUSH          | 2    |
| ▲ 11 | 230261    | BLOCK, BEARING          | 2    |
| ▲ 12 | 100005    | GASKET, BEARING BLOCK   | 1    |

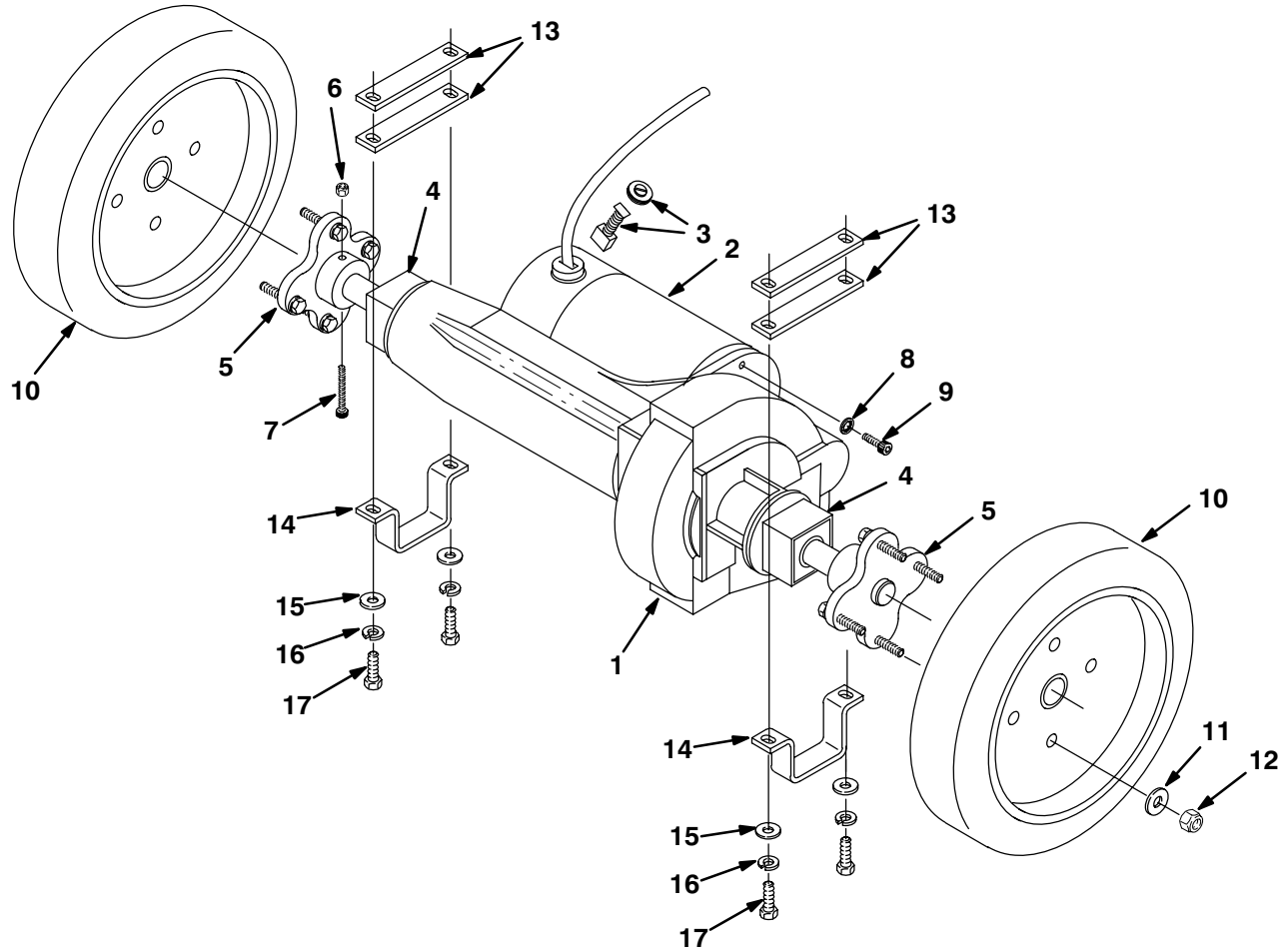
| REF  | PART #    | DESCRIPTION                | QTY. |
|------|-----------|----------------------------|------|
| ▲ 13 | 230408    | PULLEY, BRUSH              | 1    |
| ▲ 14 | 140548    | NUT 5/16                   | 1    |
| ▲ 15 | 230406    | SHAFT, BRUSH 22"           | 1    |
| ▲ 16 | 140859    | SCREW, SET 1/4-20X1/4      | 1    |
| 17   | 130096    | TERMINAL, MALE DSCNT 16-14 | 2    |
| 18   | 230411    | BRACKET, BRUSH MOTOR       | 1    |
| 19   | 140518    | NUT, KEP 10-32             | 2    |
| 20   | 575254000 | ●MOTOR, BRUSH .25HP 120V   | 1    |
| 21   | 230410    | ●PULLEY, MOTOR             | 1    |
| 22   | 230409    | ●BELT, TIMING              | 1    |
| 23   | 130154    | DOME PLUG                  | 1    |
| 24   | 140859    | SCREW, SET 1/4-20X1/4      | 1    |

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

● RECOMMENDED STOCK ITEMS

## DRIVE GROUP



| REF | PART # | DESCRIPTION                                 | QTY. |
|-----|--------|---------------------------------------------|------|
| ▽ 1 | 612843 | TRANSAXLE, 120V 72RPM                       | 1    |
| ▲   | 612873 | BODY, TRANSAXLE ONLY                        | 1    |
| ▲   | 612874 | COUPLING, NYLON TRANSAXLE                   | 1    |
| ▲   | 612875 | KEY, TRANSAXLE                              | 1    |
| ▲ 2 | 612876 | MOTOR, TRANSAXLE                            | 1    |
| ▲ 3 | 612881 | ●BRUSH, CARBON KIT<br>(BRUSHES W/CAPS-2/PK) | 2    |
| ▲ 4 | 612880 | SLEEVE, TRANSAXLE                           | 2    |
| ▲ 5 | 612879 | HUB, WHEEL TRANSAXLE                        | 2    |
| ▲ 6 | 140552 | NUT, 10-24 NYLOCK                           | 2    |
| ▲ 7 | 31249  | BOLT, SHOULDER .25X1.25                     | 2    |

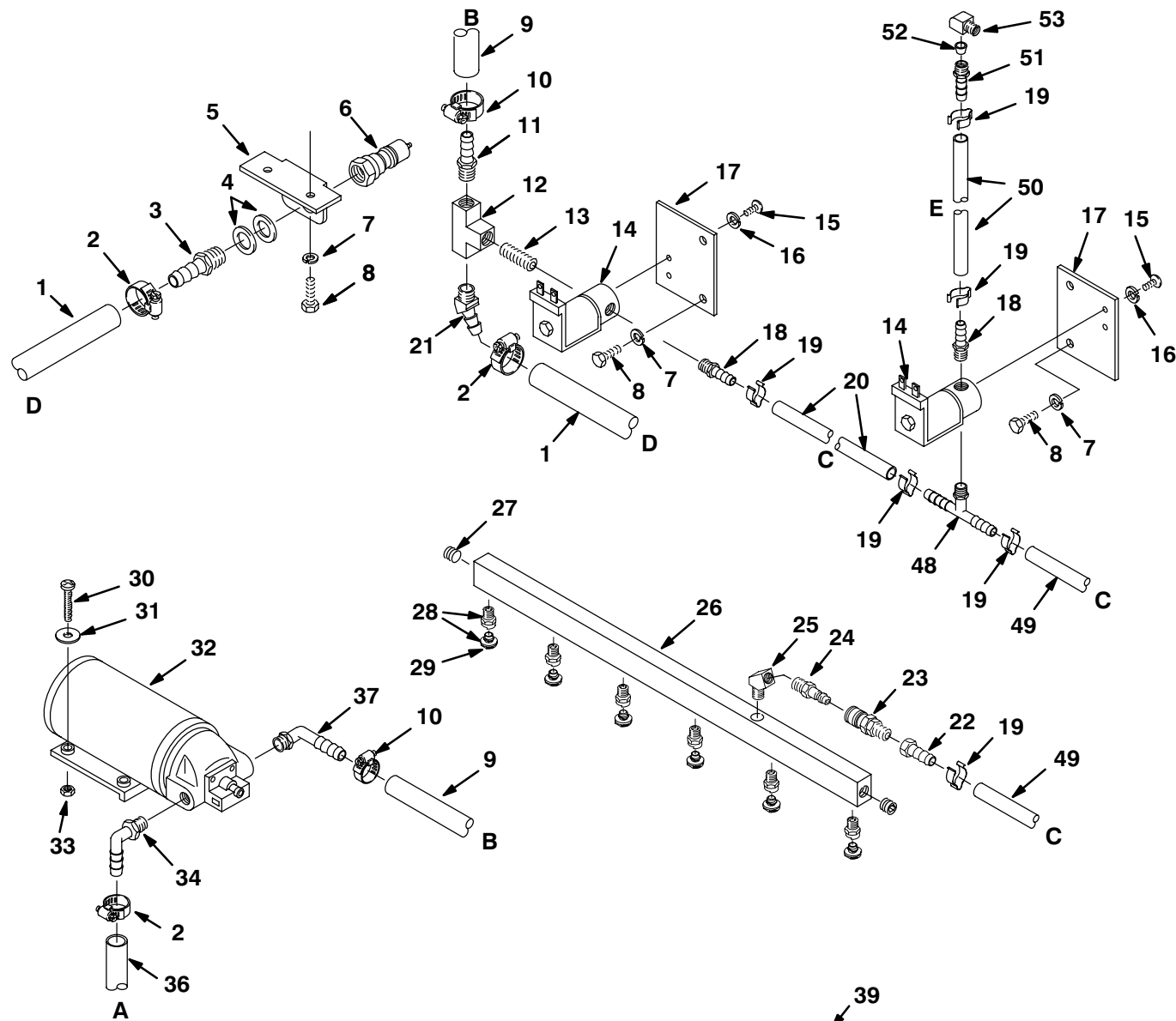
| REF | PART #    | DESCRIPTION            | QTY. |
|-----|-----------|------------------------|------|
| ▲ 8 | 32982     | WASHER, INT. LOCK      | 2    |
| ▲ 9 | 01681     | SCREW, SCKT .25-20X.75 | 2    |
| 10  | 607452    | WHEEL, 8"              | 2    |
| 11  | 140000    | WASHER, FLAT           | 8    |
| 12  | 140501    | NUT, 1/4-20 NYLOCK     | 8    |
| 13  | 612783    | SPACER, AXLE           | 4    |
| 14  | 612784    | BRACKET, TRANSAXLE MTG | 2    |
| 15  | 140028    | WASHER, 3/8 FLAT       | 4    |
| 16  | 140333    | WASHER, LOCK M10       | 4    |
| 17  | 612255000 | SCREW, M10X35MM        | 4    |

▽ ASSEMBLY

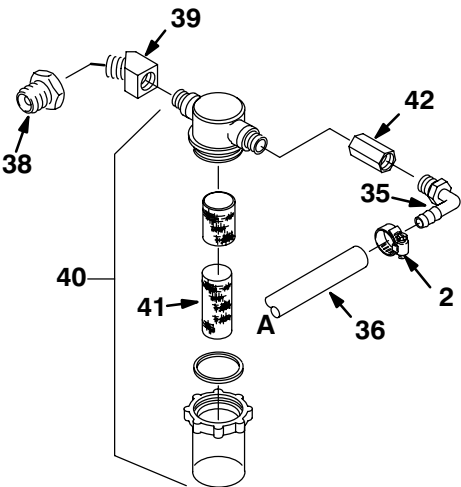
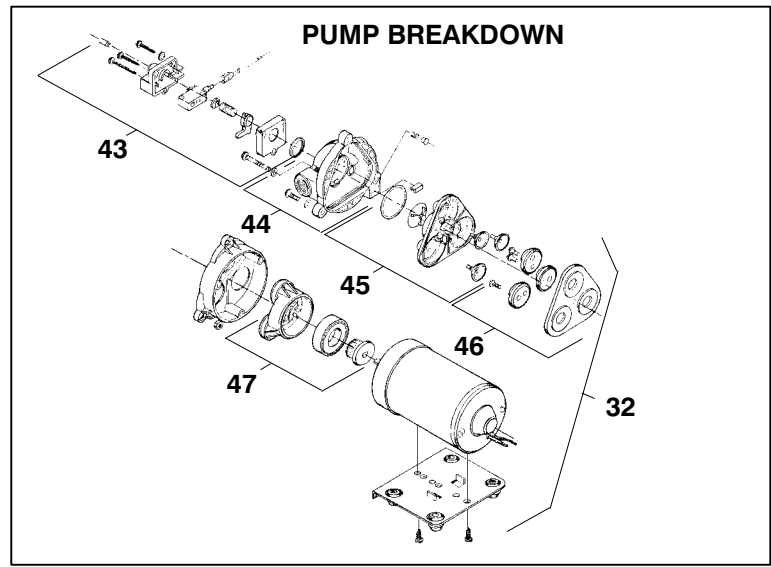
▲ INCLUDED IN ASSEMBLY

● RECOMMENDED STOCK ITEMS

PLUMBING GROUP



PUMP BREAKDOWN



## PLUMBING GROUP

| REF  | PART #    | DESCRIPTION                       | QTY. |
|------|-----------|-----------------------------------|------|
| 1    | 607704    | HOSE, 3/8 X 24.5"                 | 1    |
| 2    | 140310    | CLAMP, HOSE                       | 4    |
| 3    | 150516    | FITTING, 1/4MX3/8H HOSE BARB      | 1    |
| 4    | 140058    | WASHER, WAND                      | 2    |
| 5    | 603063    | BRACKET, QC MOUNT                 | 1    |
| 6    | 150933    | FITTING, 1/4F PLUG                | 1    |
| 7    | 140016    | WASHER, LOCK 1/4                  | 8    |
| 8    | 578187000 | SCREW, M6X12MM                    | 6    |
| 9    | 607705    | HOSE, 1/2" X 24" RED              | 1    |
| 10   | 630369    | CLAMP, HOSE                       | 2    |
| 11   | 150517    | FITTING, 1/4MX1/2H HOSE BARB      | 1    |
| 12   | 150706    | TEE, 1/4F                         | 1    |
| 13   | 150615    | FITTING, 1/4M CLOSE NIPPLE        | 1    |
| 14   | 210033    | ●SOLENOID, WATER 120V             | 2    |
| 15   | 140801    | SCREW, 8-32X3/8                   | 4    |
| 16   | 140023    | WASHER, LOCK #8                   | 4    |
| 17   | 603055    | BRACKET, SOLENOID                 | 2    |
| 18   | 150515    | FITTING, 1/4MX3/8H HOSE BARB      | 3    |
| 19   | 140325    | CLAMP, 1/2                        | 6    |
| 20   | 607706    | HOSE, 1/4" X 18"                  | 1    |
| 21   | 28303     | FITTING, 1/4MX3/8H HOSE BARB      | 1    |
| 22   | 150520    | FITTING, 1/8FX1/4H HOSE BARB      | 1    |
| 23   | 150915    | FITTING, 1/8M COUPLER             | 1    |
| ▽    | 700423    | ASM., SPRAY BAR                   | 1    |
| ▲ 24 | 150921    | FITTING, 1/8M PLUG                | 1    |
| ▲ 25 | 150422    | FITTING, 1/8MX1/8F 45° ELBOW      | 1    |
| ▲ 26 | 230407    | MANIFOLD, SPRAYBAR                | 1    |
| ▲ 27 | 150208    | PLUG                              | 2    |
| ▲ 28 | 201011    | ●FITTING, TWISTOUT NOZZLE (80015) | 6    |

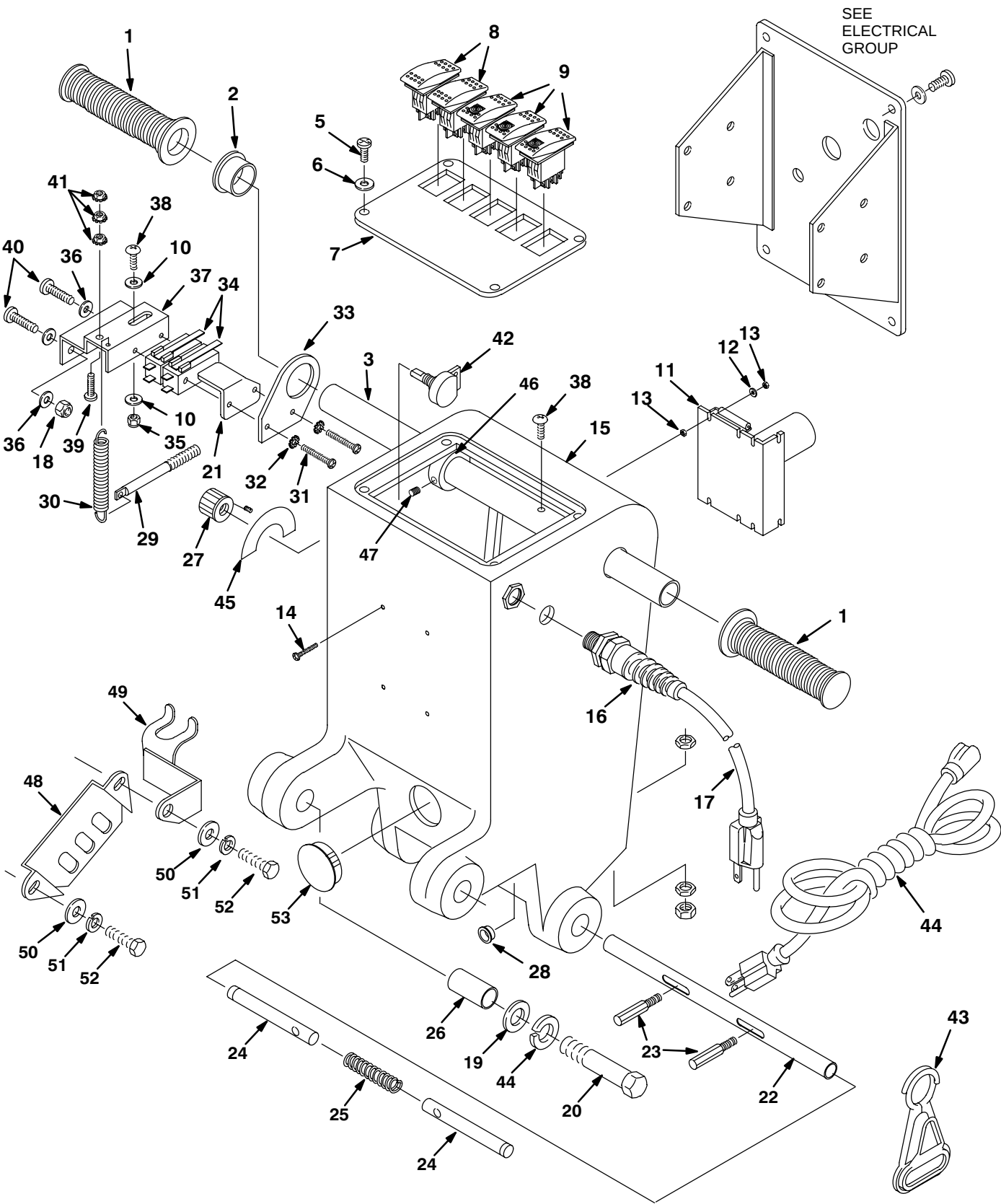
| REF | PART # | DESCRIPTION                    | QTY. |
|-----|--------|--------------------------------|------|
| 29  | 201013 | ●FITTING, TIP RPLMNT (80015)   | 6    |
| 30  | 140899 | SCREW, 10-24X1 1/4             | 2    |
| 31  | 140012 | WASHER, FLAT                   | 2    |
| 32  | 180103 | ●PUMP, 100 PSI 120V            | 1    |
|     | 130096 | TERMINAL, 120V                 | 1    |
| 33  | 140552 | NUT, NYLOCK 10-24              | 2    |
| 34  | 150412 | FITTING, 3/8MX3/8H ELBOW 90°   | 1    |
| 35  | 150415 | FITTING, 1/4MX3/8H ELBOW 90°   | 1    |
| 36  | 607305 | TUBING, 3/8 X 30" GRAY VINYL   | 1    |
| 37  | 150425 | FITTING, 3/8MX1/2H 90° ELBOW   | 1    |
| 38  | 150101 | FITTING, 1/2MX1/4F BUSHING     | 1    |
| 39  | 150403 | FITTING, 1/4MX1/4FX45° ELBOW   | 1    |
| 40  | 180619 | FILTER, 1/4 NPT CLEAR BOWL     | 1    |
| 41  | 180638 | ●SLEEVE, NYLON FILTER          | 1    |
| 42  | 150302 | FITTING, 1/4FX1/4F COUPLING    | 1    |
| 43  | 190129 | ●KIT, PUMP PRESSURE SWITCH     | 1    |
|     | 190172 | ●KIT, PUMP PRES SWITCH (VITON) | 1    |
|     | 190134 | ●KIT, PUMP DIAPHRAGM ONLY      | 1    |
| 44  | 190128 | ●KIT, PUMP UPPER HOUSING       | 1    |
|     | 190124 | ●KIT, PUMP CHECK VALVE ONLY    | 1    |
| 45  | 190171 | ●KIT, PUMP VALVE (VITON)       | 1    |
| 46  | 190131 | ●KIT, PUMP SERVICE             | 1    |
| 47  | 190130 | ●KIT, PUMP LOWER HOUSING       | 1    |
| 48  | 607306 | FITTING, 1/4MX1/4HX1/4H TEE    | 1    |
| 49  | 607307 | HOSE, 1/4" X 12" LP GRAY       | 1    |
| 50  | 607707 | HOSE, 1/4" X 9.5" LP GRAY      | 1    |
| 51  | 603649 | FITTING, 1/4MX1/4H-1/8NPTF     | 1    |
| 52  | 603557 | FITTING, PLUG W/ 1/16" ORIFICE | 1    |
| 53  | 150406 | FITTING, 1/4MX1/4F ELB STRT90  | 1    |

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

● RECOMMENDED STOCK ITEMS

CONSOLE GROUP



## CONSOLE GROUP

| REF | PART #    | DESCRIPTION                  | QTY. |
|-----|-----------|------------------------------|------|
| 1   | 200823    | GRIP, HANDLE TUBE            | 2    |
| 2   | 605351    | BUSHING                      | 1    |
| 3   | 604402    | HANDLE, TUBE                 | 1    |
| 4   | 140024    | WASHER, #10 INT              | 2    |
| 5   | 578141000 | SCREW, M5X10MM               | 4    |
| 6   | 140018    | WASHER, LOCK #10             | 4    |
| ▽   | 607699    | ASM., SWITCH PANEL           | 1    |
| ▲ 7 | 604325    | PANEL, SWITCH                | 1    |
| ▲   | 612786    | HARNESS, WIRE MAIN           | 1    |
| ▲ 8 | 602919    | ●SWITCH, DPDT ON/OFF         | 2    |
| ▲ 9 | 604326    | ●SWITCH, LIGHTED ROCKER 120V | 3    |
| 10  | 140012    | WASHER, 3/16 FLAT            | 2    |
| 11  | 612857    | ●CONTROL, BOARD 120V         | 1    |
| 12  | 140026    | WASHER, #6 FLAT              | 4    |
| 13  | 140534    | NUT, 6-32 NYLON              | 8    |
| 14  | 140879    | SCREW, 6-32X3/4 RNDSLT       | 4    |
| 15  | 607556    | HOUSING, CONTROL, TEAL       | 1    |
| 16  | 130167    | CORDGRIP, LIQTIGHT FLX 1/2N  | 1    |
| 17  | 130228    | CORD, 14/3 X 34" YLW SMOOTH  | 1    |
| 18  | 140284    | NUT, M6X1.0                  | 2    |
| 19  | 140045    | WASHER, FLAT 1/2             | 2    |
| 20  | 140351    | SCREW, M12X70MM              | 2    |
| 21  | 603830    | PLATE, GUARD SWITCH          | 1    |
| 22  | 230715    | TUBE, HANDLE ADJUSTMENT      | 1    |
| 23  | 230649    | PIN, HANDLE ADJUSTMENT       | 2    |
| 24  | 230710    | PIN, HANDLE LOCK             | 2    |
| 25  | 140415    | SPRING, LOCK PIN             | 1    |
| 26  | 140155    | BUSHING                      | 2    |

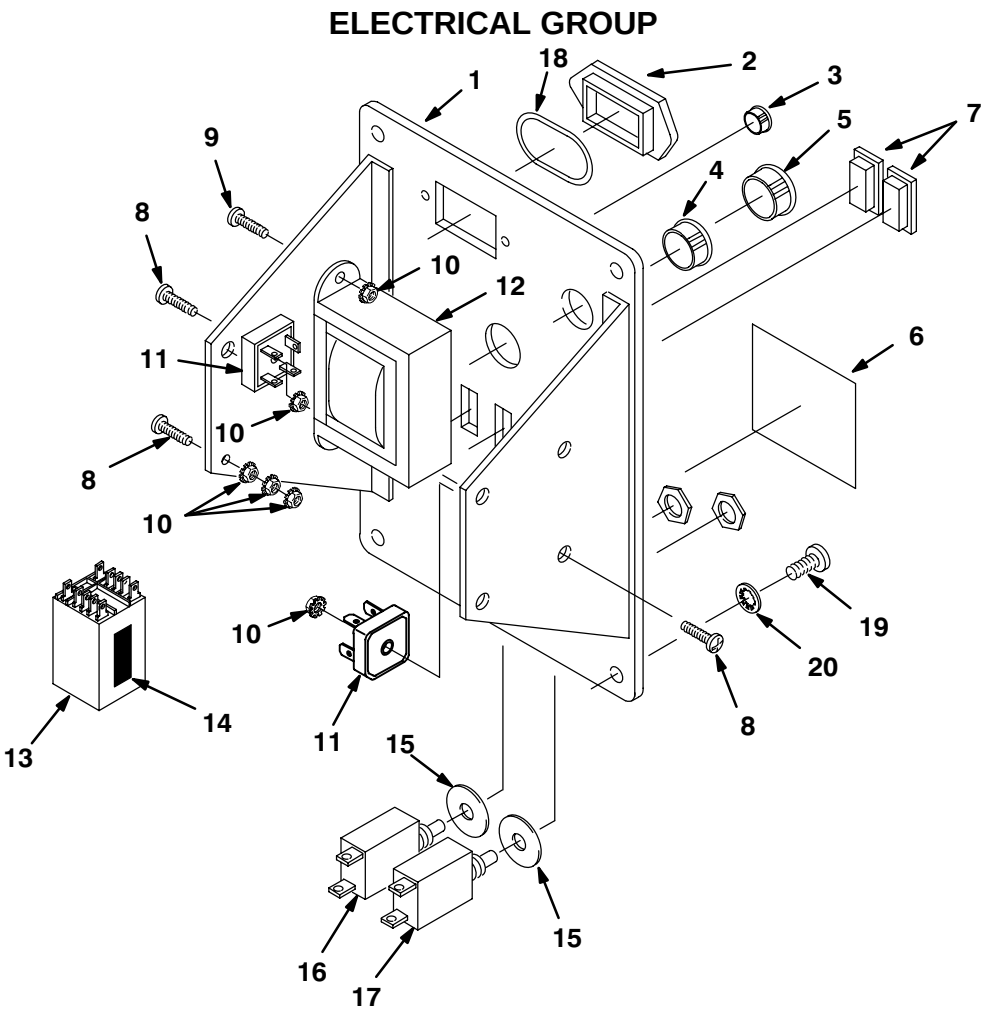
| REF | PART #    | DESCRIPTION                 | QTY. |
|-----|-----------|-----------------------------|------|
| 27  | 606550    | KNOB, SPEED CONTROL         | 1    |
| 28  | 603007    | BUSHING, SNAP               | 1    |
| 29  | 602886    | PIN, SPRING RETURN          | 1    |
| 30  | 605812    | SPRING, EXPANSION           | 1    |
| 31  | 140830    | SCREW, 6-32X1-5/8           | 2    |
| 32  | 140019    | WASHER, LOCK #6             | 2    |
| 33  | 27098     | BRACKET, SWITCH             | 1    |
| 34  | 130729    | ●SWITCH, ROLL-THROTTLE      | 2    |
| 35  | 140552    | NUT, 10-24                  | 1    |
| 36  | 140000    | WASHER, FLAT 1/4            | 4    |
| 37  | 25671     | MOUNT, SWITCH               | 1    |
| 38  | 140890    | SCREW, 10-24X1/2            | 2    |
| 39  | 140900    | SCREW, 10-24X3/4            | 1    |
| 40  | 608322    | SCREW, M6X1.0X16MM          | 2    |
| 41  | 140519    | NUT, 10-24 KEP              | 3    |
| 42  | 190802    | ●POTENTIOMETER, 50K         | 1    |
| 43  | 130176    | BELT CLIP, STRAIN RELIEF    | 1    |
| 44  | 130229    | CORD, 14/3X75'              | 1    |
| 45  | 606549    | DECAL, SPEED CONTROL        | 1    |
| 46  | 605094    | COLLAR, HANDLE              | 2    |
| 47  | 140859    | SCREW, 1/4 SK               | 2    |
| 48  | 230661    | PLATE, LOCK CONTROL HOUSING | 2    |
| 49  | 611979    | WELDMENT, DRAIN HOSE        | 1    |
| 50  | 140027    | WASHER, FLAT                | 4    |
| 51  | 140015    | WASHER, LOCK                | 4    |
| 52  | 200031488 | SCREW, M8X1.25X20MM         | 4    |
| 53  | 601401    | PLUG, DOME 1.5" DIA BLK     | 1    |

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

● RECOMMENDED STOCK ITEMS

PARTS LIST

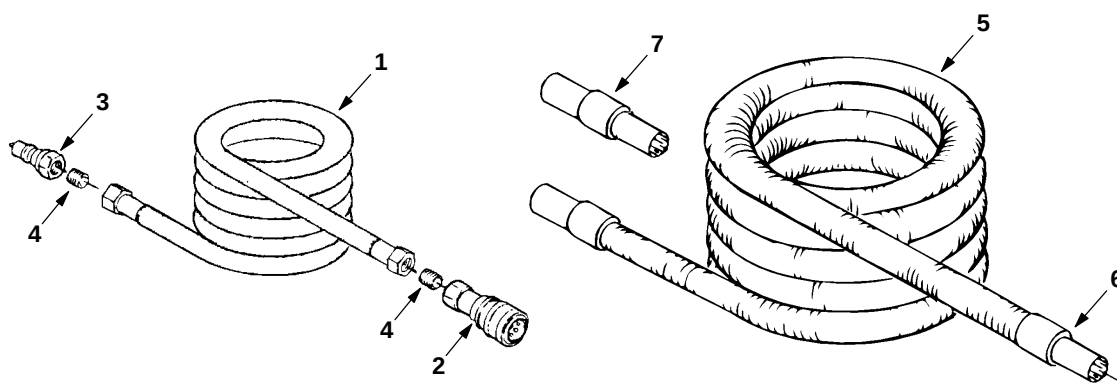


| REF | PART #    | DESCRIPTION               | QTY. |
|-----|-----------|---------------------------|------|
| 1   | 602559    | PANEL, CONTROL HOUSING    | 1    |
| 2   | 609969    | PLUG, HOUR METER          | 1    |
| 3   | 069764626 | PLUG, HOLE 012.7          | 1    |
| 4   | 130161    | PLUG, DOME .875           | 1    |
| 5   | 130175    | PLUG, DOME .750           | 1    |
| 6   | 630420    | DECAL, FLAMMABLE MATERIAL | 1    |
| 7   | 582150    | PLUG, ACCESSORY SWITCH    | 2    |
| 8   | 140900    | SCREW, 10-24X3/4          | 3    |
| 9   | 140890    | SCREW, 10-24X1/2          | 2    |
| 10  | 140519    | NUT, 10-24 KEP            | 7    |

| REF | PART #    | DESCRIPTION                  | QTY. |
|-----|-----------|------------------------------|------|
| 11  | 130304    | ●RECTIFIER BRIDGE 600V 15AMP | 2    |
| 12  | 604330    | ●TRANSFORMER 120V            | 1    |
| 13  | 604327    | ●SOLENOID, 120V              | 1    |
| 14  | 606243    | TAPE, ACRYLIC FOAM 1" WIDE   | 1    |
| 15  | 140028    | WASHER, FLAT 3/8             | 2    |
| 16  | 582510    | ●BREAKER, CIRCUIT 4.5A       | 1    |
| 17  | 609080    | ●BREAKER, CIRCUIT 2.0A       | 1    |
| 18  | 605823    | O-RING                       | 1    |
| 19  | 578141000 | SCREW, M5X10                 | 4    |
| 20  | 140018    | WASHER, LOCK #10             | 4    |

- ▽ ASSEMBLY  
▲ INCLUDED IN ASSEMBLY  
● RECOMMENDED STOCK ITEMS

## SOLUTION AND VACUUM HOSES



| REF  | PART # | DESCRIPTION                       | QTY. |
|------|--------|-----------------------------------|------|
| ▽    | 600329 | ●KIT, HOSE, VAC & SOL 4.6M (15')  | 1    |
|      | 600330 | ●KIT, HOSE, VAC & SOL 7.6M (25')  | 1    |
|      | 600331 | ●KIT, HOSE, VAC & SOL 15.2M (50') | 1    |
| ▲▽ 1 | 160185 | HOSE, SOLUTION 4.6M (15')         | 1    |
|      | 160186 | HOSE, SOLUTION 7.6M (25')         | 1    |
|      | 160187 | HOSE, SOLUTION 15.2M (50')        | 1    |
| ▲ 2  | 150913 | ●COUPLER, QUICK SER. 60           | 1    |
| ▲ 3  | 150933 | PLUG, QUICK COUPLER               | 1    |
| ▲ 4  | 150615 | NIPPLE                            | 2    |

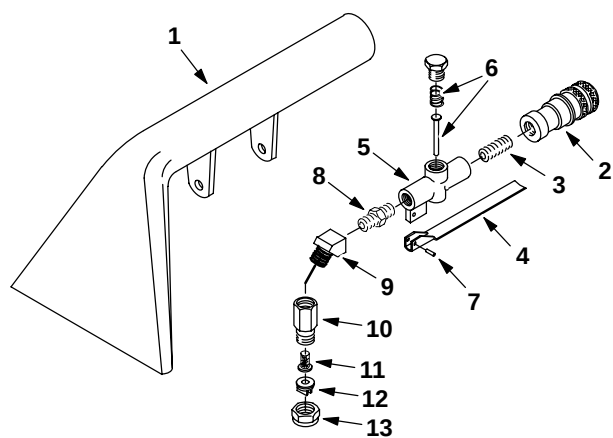
| REF  | PART # | DESCRIPTION                 | QTY. |
|------|--------|-----------------------------|------|
| ▲▽ 5 | 160400 | HOSE, VACUUM 4.6M (15')     | 1    |
|      | 160401 | HOSE, VACUUM 7.6M (25')     | 1    |
|      | 160402 | HOSE, VACUUM 15.2M (50')    | 1    |
| ▲ 6  | 160430 | ●CUFF, HOSE 1-1/2"          | 2    |
| 7    | 160451 | ●CONNECTOR, VAC HOSE 1-1/2" | 1    |

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

● RECOMMENDED STOCK ITEMS

127 mm (5 in) HAND TOOL

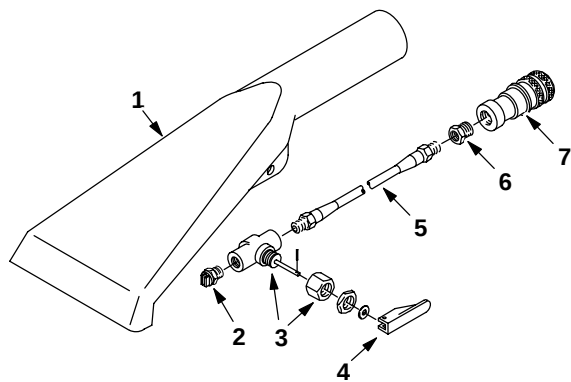


| REF | PART #    | DESCRIPTION                  | QTY. |
|-----|-----------|------------------------------|------|
| ▽   | 200505    | ●ASM., HAND TOOL 5"          | 1    |
| ▲ 1 | 200431.BK | TOOL, HAND                   | 1    |
| ▲ 2 | 150913    | FITTING, 1/4F QD FML COUPLER | 1    |
| ▲ 3 | 150615    | NIPPLE, CLOSE                | 1    |
| ▲ 4 | 200905    | TRIGGER, HAND TOOL           | 1    |
| ▲ 5 | 210210    | ●VALVE, FLOW CONTROL         | 1    |
| ▲ 6 | 190600    | VALVE PIN & SPRING           | 1    |

| REF  | PART # | DESCRIPTION          | QTY. |
|------|--------|----------------------|------|
| ▲ 7  | 140609 | PIN, ROLL 3/16       | 1    |
| ▲ 8  | 150606 | NIPPLE, HEX 1/4      | 1    |
| ▲ 9  | 150403 | ELBOW, ST 1/4 45°    | 1    |
| ▲ 10 | 200992 | BODY, SPRAY 1/4F     | 1    |
| ▲ 11 | 200996 | SCREEN, SPRAY NOZZLE | 1    |
| ▲ 12 | 200965 | ●TIP, SPRAY #8002    | 1    |
| ▲ 13 | 200994 | CAP, SPRAY BODY      | 1    |

- ▽ ASSEMBLY
- ▲ INCLUDED IN ASSEMBLY
- RECOMMENDED STOCK ITEMS

76 mm (3 in) CREVICE TOOL

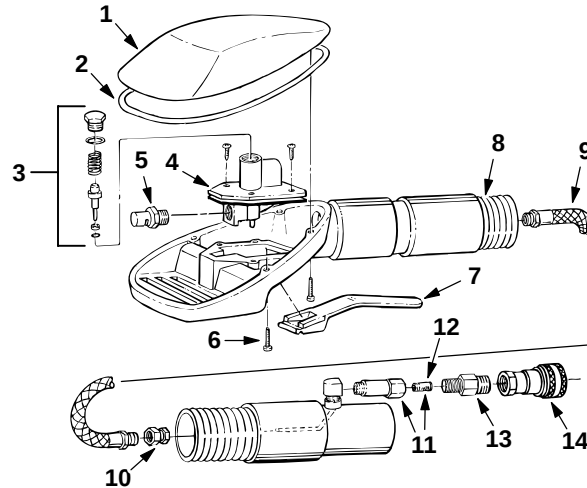


| REF | PART #    | DESCRIPTION                | QTY. |
|-----|-----------|----------------------------|------|
| ▽   | 200517    | ●ASM., CREVICE TOOL SER.60 | 1    |
| ▲ 1 | 200436.BK | TOOL, CREVICE BLACK        | 1    |
| ▲ 2 | 200975    | ●FITTING, TIP #5002 V-JET  | 1    |
| ▲ 3 | 210014    | ●VALVE, TOGGLE W/NUT       | 1    |

| REF | PART # | DESCRIPTION                  | QTY. |
|-----|--------|------------------------------|------|
| ▲ 4 | 210020 | POSITIONER, VALVE HANDLE     | 1    |
| ▲ 5 | 160106 | HOSE, SOLUTION               | 1    |
| ▲ 6 | 150100 | FITTING, 1/4MX1/8F BUSHING   | 1    |
| ▲ 7 | 150913 | FITTING, 1/4F QD FML COUPLER | 1    |

- ▽ ASSEMBLY
- ▲ INCLUDED IN ASSEMBLY
- RECOMMENDED STOCK ITEMS

## LOW PRESSURE UPHOLSTERY TOOL



| REF | PART # | DESCRIPTION                | QTY. |
|-----|--------|----------------------------|------|
| ▽   | 200540 | ●ASSEMBLY, UPHOLSTERY TOOL | 1    |
| ▲ 1 | 200845 | COVER                      | 1    |
| ▲ 2 | 200843 | GASKET                     | 1    |
| ▲ 3 | 190631 | ●KIT, VALVE ASM.           | 1    |
| ▲ 4 | 210226 | ●VALVE, LP                 | 1    |
| ▲ 5 | 200991 | ●NOZZLE                    | 1    |
| ▲ 6 | 200838 | SCREW                      | 4    |
| ▲ 7 | 200840 | TRIGGER                    | 1    |

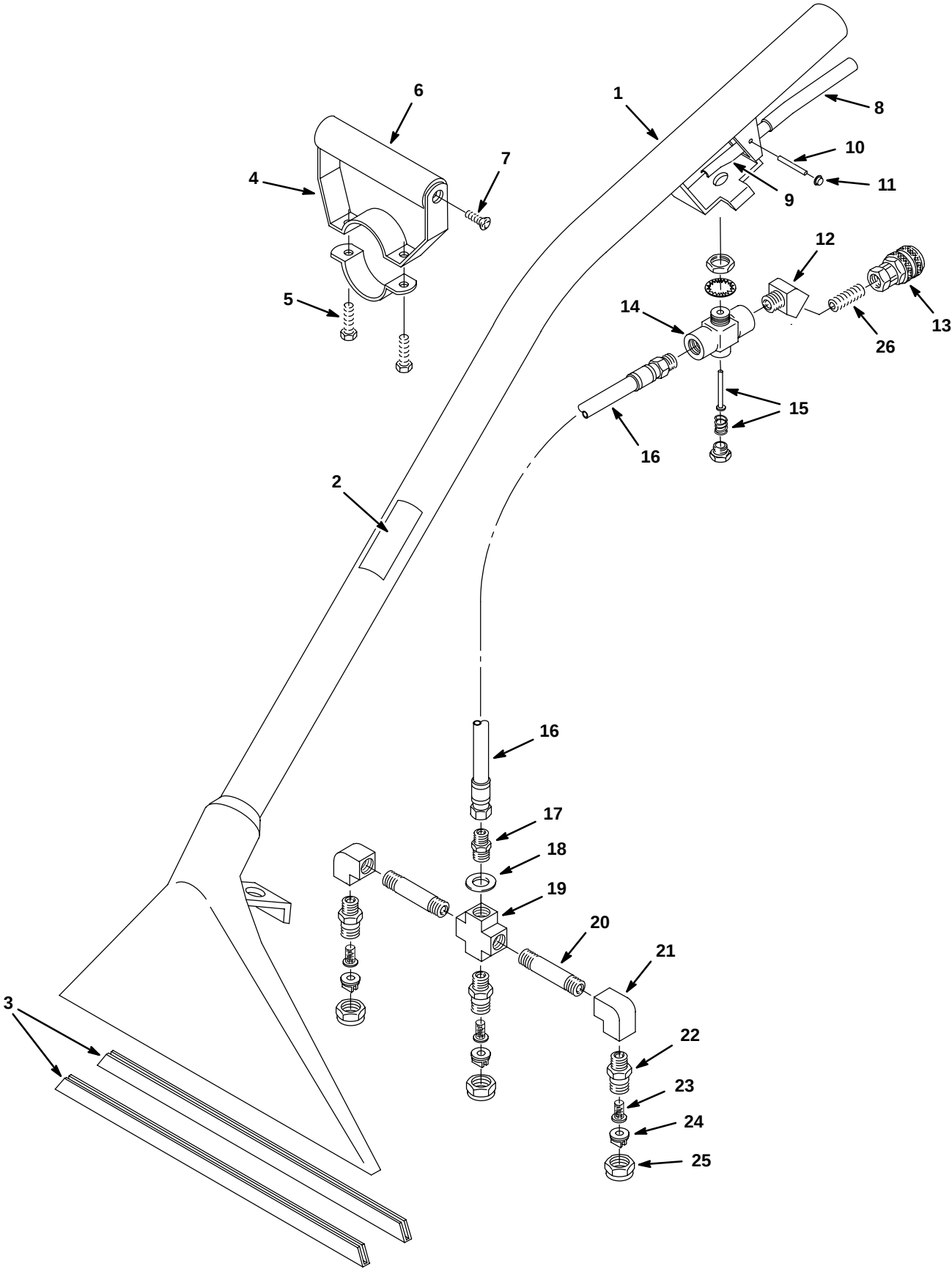
| REF  | PART # | DESCRIPTION        | QTY. |
|------|--------|--------------------|------|
| ▲ 8  | 200844 | ●HOSE, VACUUM      | 1    |
| ▲ 9  | 200837 | ●HOSE, SOLUTION    | 1    |
| ▲ 10 | 200848 | FITTING            | 1    |
| ▲ 11 | 200842 | FILTER             | 1    |
| ▲ 12 | 200841 | SCREEN, FILTER     | 1    |
| ▲ 13 | 150606 | FITTING, 1/4MX1/4M | 1    |
| ▲ 14 | 150913 | ●COUPLER           | 1    |

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

● RECOMMENDED STOCK ITEMS

330mm (13 in) LOW PRESSURE FLOOR TOOL



### 330mm (13 in) LOW PRESSURE FLOOR TOOL

| REF  | PART #    | DESCRIPTION                   | QTY. |
|------|-----------|-------------------------------|------|
| ▽    | 600048    | ●ASM., WAND LOW PRESSURE      | 1    |
| ▲ 1  | 200403.BK | TOOL, FLOOR BLACK             | 1    |
| ▲ 2  | 120846    | DECAL, LOW PRESSURE TOOL      | 1    |
| ▲ 3  | 200939    | ●SHOE, 330MM (13 IN) FLR TOOL | 2    |
| ▲▽ 4 | 200927    | GRIP, HAND ADJ. COMPLETE      | 1    |
| ▲ 5  | 140259    | SCREW, 1/4-20X5/8             | 2    |
| ▲ 6  | 200912    | GRIP, HANDLE FOAM             | 1    |
| ▲ 7  | 140834    | SCREW, 1/4-20X5/8             | 2    |
| ▲ 8  | 200809    | SLEEVE, HANDLE                | 1    |
| ▲ 9  | 200902    | HANDLE, VALVE                 | 1    |
| ▲ 10 | 140605    | PIN, HANDLE                   | 1    |
| ▲ 11 | 140520    | NUT, 1/4 PUSH BLK             | 2    |
| ▲ 12 | 150403    | FITTING, 1/4MX1/4F 45 STR     | 1    |
| ▲ 13 | 150913    | ●FITTING, 1/4F QD CPLR SER 60 | 1    |

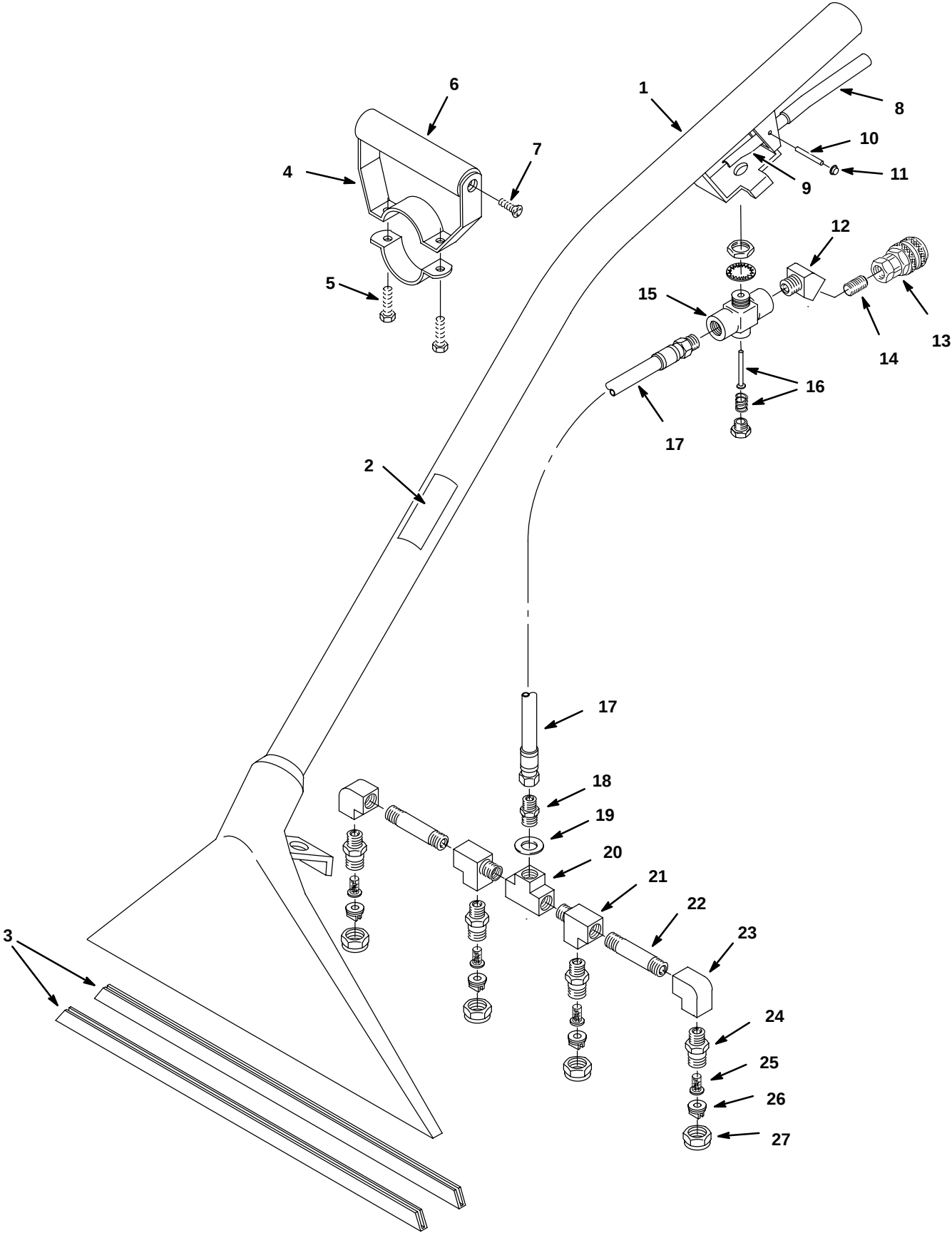
| REF   | PART # | DESCRIPTION                 | QTY. |
|-------|--------|-----------------------------|------|
| ▲▽ 14 | 210150 | ●VALVE, FLOW CONTROL        | 1    |
| ▲ 15  | 190603 | ●KIT, VALVE PIN AND SPRING  | 1    |
| ▲ 16  | 160170 | ASM, HOSE LOW PRESSURE      | 1    |
| ▲ 17  | 150606 | FITTING, 1/4MX1-3/8HEXNIP   | 1    |
| ▲ 18  | 140058 | WASHER, .543X.875X.062 WAND | 1    |
| ▲▽    | 700062 | ASM., SPRAYBAR WO/TIPS      | 1    |
| ▲ 19  | 150700 | CROSS, 1/4 FPT              | 1    |
| ▲ 20  | 150600 | FITTING, 1/4MX2" NIPPLE     | 2    |
| ▲ 21  | 150401 | FITTING, 1/4FX1/4F ELBOW 90 | 2    |
| ▲ 22  | 200993 | SPRAY BODY, 1/4" MALE       | 3    |
| ▲ 23  | 200996 | ●FILTER, SCREEN 100 MESH    | 3    |
| ▲ 24  | 200964 | ●FITTING, TIP 11003 T-JET   | 3    |
| ▲ 25  | 200994 | ●CAP, SPRAY BODY            | 3    |
| ▲ 26  | 150615 | FITTING, 1/4MX7/8 CLSNIP    | 1    |

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

● RECOMMENDED STOCK ITEMS

406mm (16 in) LOW PRESSURE FLOOR TOOL



### 406mm (16 in) LOW PRESSURE FLOOR TOOL

| REF  | PART #    | DESCRIPTION                   | QTY. |
|------|-----------|-------------------------------|------|
| ▽    | 200503    | ●ASM., FLOOR TOOL             | 1    |
| ▲ 1  | 200411.BK | TOOL, FLOOR 406MM (16 IN)     | 1    |
| ▲ 2  | 120846    | DECAL, LOW PRESSURE TOOL      | 1    |
| ▲ 3  | 200956    | ●SHOE, 406MM (16 IN) FLR TOOL | 2    |
| ▲▽ 4 | 200927    | GRIP, HAND ADJ. COMPLETE      | 1    |
| ▲ 5  | 140259    | SCREW, 1/4-20X5/8             | 2    |
| ▲ 6  | 200912    | GRIP, HANDLE FOAM             | 1    |
| ▲ 7  | 140834    | SCREW, 1/4-20X5/8             | 2    |
| ▲ 8  | 200809    | SLEEVE, HANDLE                | 1    |
| ▲ 9  | 200902    | HANDLE, VALVE                 | 1    |
| ▲ 10 | 140605    | PIN, HANDLE                   | 1    |
| ▲ 11 | 140520    | NUT, 1/4 PUSH BLK             | 2    |
| ▲ 12 | 150403    | FITTING, 1/4MX1/4F 45 STR     | 1    |
| ▲ 13 | 150913    | ●COUPLER, SER. 60             | 1    |
| ▲ 14 | 150615    | NIPPLE, CLOSE 1/4             | 1    |

| REF   | PART # | DESCRIPTION                 | QTY. |
|-------|--------|-----------------------------|------|
| ▲▽ 15 | 210150 | ●VALVE, FLOW CONTROL        | 1    |
| ▲ 16  | 190603 | ●KIT, VALVE PIN AND SPRING  | 1    |
| ▲ 17  | 160170 | ASM, HOSE LOW PRESSURE      | 1    |
| ▲ 18  | 150606 | FITTING, 1/4MX1-3/8HEXNIP   | 1    |
| ▲ 19  | 140058 | WASHER, .543X.875X.062 WAND | 1    |
| ▲▽    | 700656 | ASM., SPRAYBAR 16" WO/TIPS  | 1    |
| ▲ 20  | 150706 | FITTING, 1/4F TEE           | 1    |
| ▲ 21  | 150709 | FITTING, 1/4F X 1/4F X 1/4M | 2    |
| ▲ 22  | 150600 | FITTING, 1/4MX2" NIPPLE     | 2    |
| ▲ 23  | 150401 | FITTING, 1/4FX1/4F ELBOW 90 | 2    |
| ▲ 24  | 200993 | SPRAY BODY, 1/4" MALE       | 4    |
| ▲ 25  | 200996 | ●FILTER, SCREEN 100 MESH    | 4    |
| ▲ 26  | 200964 | ●FITTING, TIP 11003 T-JET   | 4    |
| ▲ 27  | 200994 | ●CAP, SPRAY BODY            | 4    |

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

● RECOMMENDED STOCK ITEMS