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INTRODUCTION

BEFORE YOU USE YOUR OWNER'S MANUAL, PLEASE READ THIS INTRODUCTION ALL THE WAY THROUGH.

WHEN THE MACHINE IS DELIVERED:

Check the carton carefully for signs of damage and rough handling. Remove the machine from the carton. If the machine is damaged, notify the carrier immediately and request an inspection. Be sure to keep the carton, packing lists and carrier's receipt until the inspector has verified your claim.

Kent Investment's liability ceases when the shipment is picked up by the carrier, but our customer service staff will be glad to furnish any information needed in connection with the claim and will expedite repair of the machine.

BEFORE OPERATING THE MACHINE:

Read the manual carefully before operating Model C-4. The manual has important information for the use and safe operation of the machine. Keep this manual handy at all times. Model C-4 will assure years of satisfactory service if operated and maintained according to recommendations in this manual. If additional technical information is needed, please contact Kent Investment Corporation at (870)994-3535.

All information and specifications printed in this manual and parts list are current at the time of printing; however, because of Kent Investment's policy of continual product improvement, we reserve the right to make changes at any time without notice.

WARRANTY: See page 5 of this manual for limited warranty.

THIS MACHINE IS FOR COMMERCIAL USE.

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING MODEL C-4.

GENERAL INSTRUCTIONS

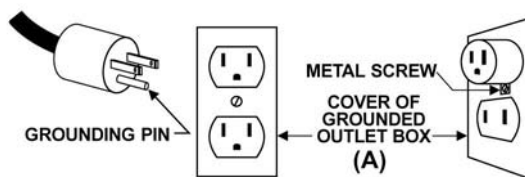
This floor-finishing machine shall be grounded while in use to protect the operator from electric shock. The machine is provided with a three-conductor cord and a three-contact grounding type attachment plug to fit the proper grounding type receptacle. The green and yellow conductor in the cord is the grounding wire. NEVER connect this wire to other than the grounding pin of the attachment plug.

WARNING – TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK, PERSONAL INJURY OR DAMAGE TO MODEL C-4:

1. DO NOT leave appliance when plugged in. Unplug from outlet when not in use and before servicing.
2. To reduce the risk of electrical shock – DO NOT expose to rain. Store indoors.
3. This machine is intended for carpet and upholstery cleaning only!
4. Fill tank with machine bucket only! Machine must be emptied after 3 ½ gallons of water and solution have been used.
5. DO NOT allow to be used as a toy. Close attention is necessary when used by or near children.
6. Use only as described in this manual. Use only Kent Investment recommended attachments and chemicals.
7. DO NOT use with damaged cord or plug. If appliance is not working as it should, has been dropped, damaged, left outdoors, or immersed in water, contact Kent Investment Corporation service department for service instruction.
8. DO NOT pull or carry by cord, use cord as a handle, close door on a cord, or pull cord around sharp edges or corners. DO NOT run equipment over cord. Keep cord away from heated surfaces.
9. DO NOT unplug by pulling on cord. To unplug, grasp the plug, not the cord.
10. DO NOT handle plug or equipment with wet hands.
11. DO NOT put any object into openings. DO NOT use with any openings blocked; keep free of dust, lint, hair and anything that may reduce airflow.
12. Keep hair, loose clothing, fingers and all parts of body away from openings and moving parts.
13. DO NOT pick up anything that is burning or smoking, such as cigarettes, matches or hot ashes.
14. DO NOT use without filter screens in place.
15. Turn off all controls before unplugging.
16. Use extra care when cleaning stairs.
17. NEVER vacuum solvents, gasoline or other hazardous liquid or solid material or use in areas where they may be present.
18. Connect to a properly grounded outlet only. See grounding instructions.

GROUNDING INSTRUCTIONS

This machine is for use on a nominal 120-volt circuit and has a grounding plug that resembles the plug illustrated in sketch (A) (RIGHT). Make sure that the machine is connected to an outlet having the same configuration as the plug. No adapter should be used with this machine.



FOR CUSTOMERS IN CANADA:

CAUTION! To prevent electrical shock, do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

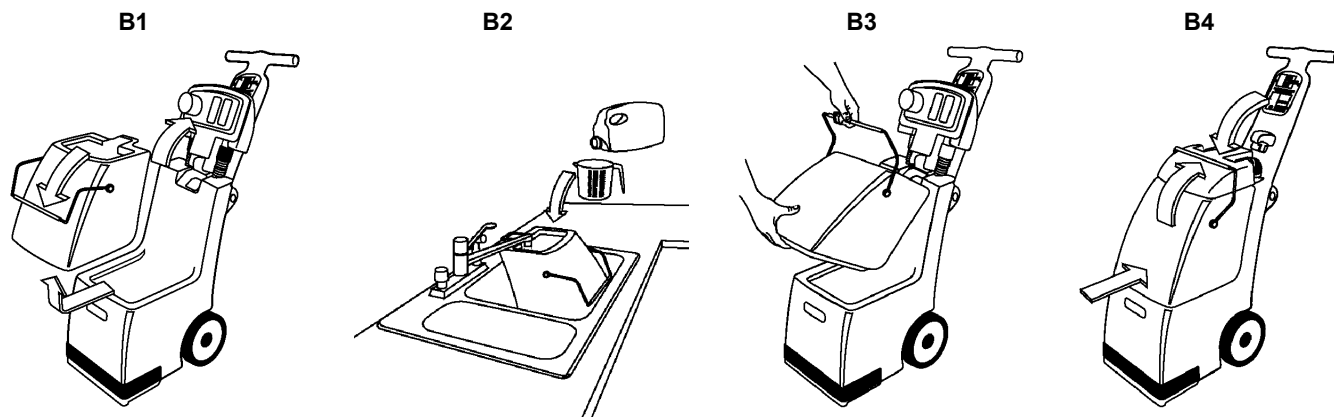
CARPET CLEANING INSTRUCTIONS

SECTION A: PREPARING CARPET

1. Vacuum carpet with your vacuum cleaner, *NOT* the C-4 extractor. 2. Pre-treat spotted and heavily soiled areas of carpet.

SECTION B: PREPARING THE MACHINE

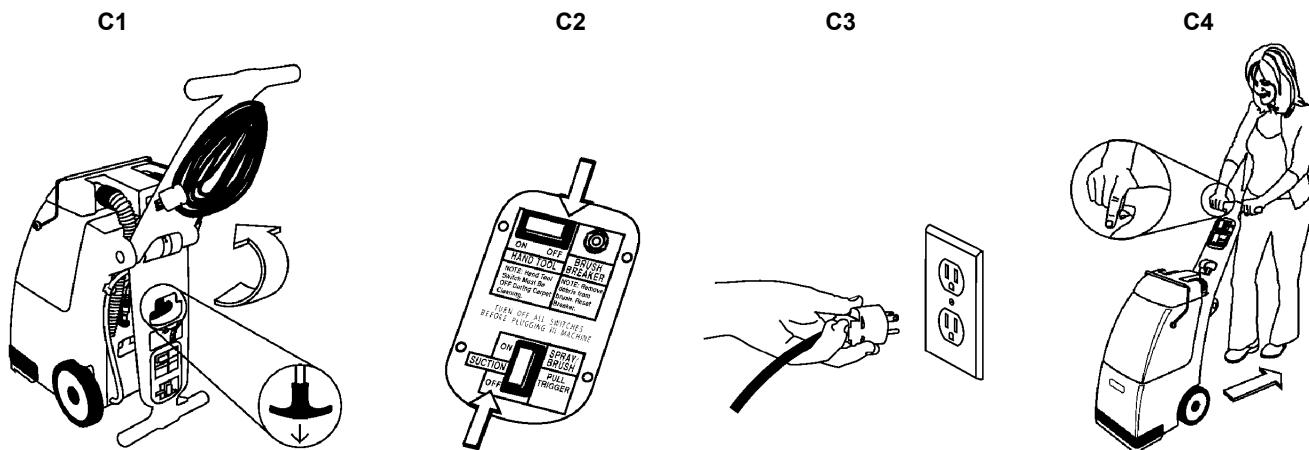
1. Pull *Bucket Handle* outward, lift the *Lid* and remove *Bucket*. 2. Fill *Bucket* with hot tap water to the 2.5 or 3.5 gallon fill line. Add 2 oz. (60 mL) of cleaner per gallon of water. 3. **IMPORTANT:** Pour *Bucket* contents into the *Solution Tank*. 4. Return *Bucket*, *Lid* and *Handle*.



WARNING! Do not use bleach or dye in this machine. User will be liable for all damage done to machine, carpets and upholstery.

SECTION C: CLEANING CARPET

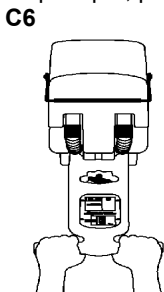
1. Adjust *Handle* to desired height using *Black "T" Handle*. 2. Make sure all *Switches* are off. Plug machine in. 3. Tilt the machine back and move to start position. 4. Turn ON the *Suction Switch*. **IMPORTANT:** *Hand Tool Switch* must be OFF during carpet cleaning! 5. Squeeze *Spray/Brush Trigger* as you pull the machine backwards.



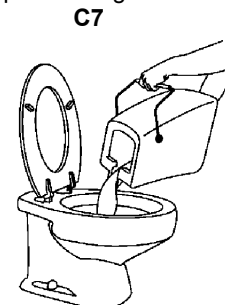
TIP: Strokes should be at a slow, steady pace, five feet long with a two-inch overlap. Release *Spray/Brush Trigger* four inches before end of stroke. Heavily soiled areas may require a second cleaning at a right angle to the first cleaning.

IMPORTANT: After moving furniture on damp carpet, place foil under the legs IMMEDIATELY to avoid carpet staining.

IMPORTANT: If foam is in the left *Lid Tube*, add 2 ounces (60 mL) of Anti-Foam to the *Bucket*. Or, empty *Bucket* contents and replace without refilling the machine.



6. As you clean, dirty solution passes through the right *Lid Tube*. When extraction ceases, machine is empty. 7. Turn OFF *Switches*. Discard dirty water. Rinse *Bucket*. Refill according to instructions.



SECTION D: CLEANING STAIRS

1. Use the *Hand Tool* to clean stairs. (See **HAND TOOL HOOK UP**). 2. Clean upstairs rooms first, then stairs.
- IMPORTANT:** When Cleaning the upper stairs, turn machine sideways so wheels are NOT facing forward, toward stairs. Be careful bringing the machine down wet stairs. *Make sure it is empty of all solution!* (See **EMPTYING UNUSED SOLUTION**.)
3. Turn on *Suction* and *Hand Tool Switches*. 4. Place *Hand Tool* suction lips on carpet and squeeze *Trigger* while pulling backwards.

UPHOLSTERY CLEANING

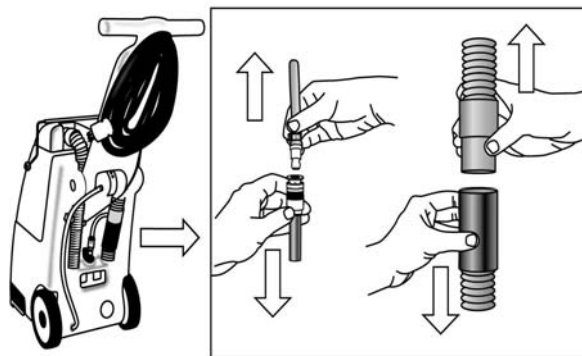
SECTION E: TESTING COLOR FASTNESS & FILLING THE MACHINE

1. Vacuum furniture with *your vacuum*, NOT the C-4 extractor. 2. Fill machine bucket to the 1.5 gallon fill line with warm water. Add 2 oz (60 mL) of Cleaner per gallon of water. 3. Dampen a white towel with mixture and in a hidden place rub the dampened towel on the upholstery. If a little color comes off you may still proceed, at your own risk. User assumes all risk.

IMPORTANT: Pour *Bucket* contents into the *Solution Tank*.

SECTION F: HAND TOOL HOOK UP

1. Turn OFF all *Switches*. Disconnect the *Gray* and *Black Cuffs* at the back of the machine. Attach *Gray Hand Tool Cuff* to *Gray Machine Cuff*. 2. To disconnect the machine *Solution Hose*, pull down on the middle of the *Coupler* (brass fixture) and machine hose will release. While still holding down, insert the hand tool *Solution Hose* into *Coupler* and release middle of *Coupler Sleeve*. To undo, pull down on middle of machine *Coupler* and *Hose* will release. Reattach machine *Solution Hose* when finished.

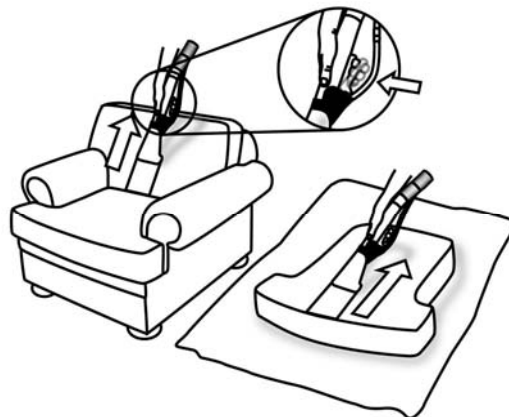


SECTION G: CLEANING UPHOLSTERY

1. Pre-treat spots after testing for color fastness.
2. Turn on *Suction* and *Hand Tool Switches*.
3. Clean furniture from bottom up. Place the hand tool suction lips on the furniture and squeeze *Trigger* while pulling towards you. Clean with overlapping, even strokes.

TIP: You may clean a second time at right angles to the first cleaning on especially soiled areas. Or, use a soft brush to agitate spots, if the material is not delicate or worn. Do no use circular motion. The less moisture you use, the better.

4. Clean cushions separately on a white sheet placed on the floor, so dye cannot transfer. Stand the cushions up A-frame style to dry.



EMPTYING UNUSED SOLUTION

Use the *Drain* located between the wheels on the back of the machine.



WARNING: DO NOT USE TO CLEAN HAITIAN COTTON!!

AFTER EACH USE

1. Wipe hair and debris from the *Lid*.
2. Drain unused solution from *Solution Tank*.
3. Dispose of solution and rinse *Bucket* thoroughly.
4. Clean out the *Vac Nozzle* with a hanger.
5. Remove fibers and hair from the *Brush*.
6. Wipe *Brush Chamber* clean with a towel.
7. Wipe off the exterior of the machine with a damp towel.

MACHINE OPERATION AND TROUBLESHOOTING

PROBLEM: LOSS OF ELECTRICAL POWER

- Check to see if power cord is plugged in.
- Check to see if switch is on.
- Check to see if the brush circuit breaker has tripped. Clear brush of debris until brush turns freely. Then reset the breaker.
- Check circuit breakers or fuse box in your building.
- Check if the outlet is wired to a light switch.
- If machine keeps blowing breakers or fuses every time you turn it on, have a qualified repair center check the equipment.

PROBLEM: LOSS OF VACUUM / LITTLE OR NO SUCTION

- Check if hose cuffs on back of the machine are connected. (See illustration on page 4.)
- Be sure the suction switch is on. If you don't hear any sound from the vacuum, have a qualified repair center check the equipment.
- Be sure the lid is firmly seated in the bucket and the handle is snapped in place.
- As you make a backwards-cleaning stroke, be sure the suction lips are down firmly on the carpet.
- Brush off any accumulated lint or debris on the vacuum filter screen located on the bottom of the lid.

PROBLEM: LACK OF WATER PRESSURE

- See if the cleaning solution was poured from the removable bucket into the solution tank.
- Pull the spray/brush trigger switch. The pump runs only when the trigger is pulled EXCEPT during hand tool use.
- Check to see if the solution hose is connected at the back of the machine.

PROBLEM: NO BRUSH MOVEMENT

- Pull the spray/brush trigger switch. If there is no movement, release trigger and check to see if the brush spins freely. Remove any lint and string caught on the brush. Reset the circuit breaker located on the handle. DO NOT attempt to reset the circuit breaker if it trips a second time. Have a qualified repair center check/repair the equipment.
- If the motor runs and brush will not spin (but it can be turned freely by hand), the belt needs to be replaced. See C-4 repair instructions for further details.

KENT INVESTMENT CORPORATION LIMITED WARRANTY

Kent Investment Corporation (the "Company") warrants each new machine against defects in material and workmanship under normal use and service for a period of six months from date of purchase. Our obligation under this warranty is limited to the making good at our factory or authorized distributor service station any part or parts thereof, except motors and pumps (see exception below), which within the warranty period are returned to our factory or authorized distributor service station, transportation prepaid, and which are determined by us to have been defective in workmanship or material. All parts being returned must be accompanied by date of purchase, name of party purchased from, invoice number and serial number of machine. Purchaser's exclusive remedy against defects in workmanship or material under this warranty shall be the repair or replacement of the returned part or parts as set forth above.

EXCEPTION: This warranty does not apply to motors or pumps used on Kent Investment machines. The motors and pumps carry a warranty of their own and are covered by the manufacturer of said motors and pumps.

This limited warranty does not cover any product or part(s), damage or defects resulting from misuse, neglect, accident, normal expected wear, improper installation or operation contrary to factory recommendations or unapproved, unauthorized repairs or alterations. Kent Investment Corporation reserves the right to inspect and make the final decision on any warranty claims that may be questionable.

Purchaser shall have no claim against the company in connection with this warranty, the company's machines, or otherwise, for consequential or incidental damages, including without limitation damages for loss of use, lost profits, or delayed delivery or expenses related to the receipt, transportation, or care of a new machine. In no event shall the company's liability with respect to each machine covered under this warranty exceed the price paid by purchaser for such machine.

TROUBLE SHOOTING GUIDE

ELECTRICAL SYSTEM

WARNING: Use only Kent Investment Corp. (KIC) Electrical components. They are the only components to comply with the Electrical Testing Laboratories (ETL) electrical safety listing. Non-approved components may void safety listing.

NOTE: When replacing electric terminals on wire nuts, a good crimp is essential. Double check new crimp. It should not have exposed wires.

SYMPTOM	POSSIBLE CAUSE	SOLUTION
No power to the machine.	1. Building circuit breaker tripped. 2. Defective wall outlet. 3. Defective <i>Plug</i> . 4. Loose Power Connection. 5. Defective <i>Power Cord</i> .	1. Unplug any other equipment on the same circuit. Wait five minutes, reset circuit. Note: If breaker continues to trip, try outlets on another circuit. If new circuit continues to trip, DO NOT use the unit. All motors and wires must be examined for defect. 2. Plug machine into different outlet. Also: Check if outlet is wired to a light switch. 3. Replace <i>Plug (10109)</i> . 4. Check <i>Wire Nuts (10149)</i> to black and white wires. 5. Replace <i>Power Cord (18205)</i> .
Power is intermittent to all or some of the motors.	1. Loose <i>Terminal</i> or <i>Wire Nut</i> . 2. Burned or corroded <i>Terminals</i> . 3. Defective <i>Switch</i> . 4. Defective <i>Wire</i> or <i>Power Cord</i> .	1. Replace loose <i>Terminals</i> or <i>Wire Nut</i> . 2. Replace <i>Terminals</i> . 3. Replace <i>Switch (10108/18207)</i> . 4. Replace <i>Wire</i> or <i>Power Cord (18205)</i> .
Electrical Short.	1. Damaged or loose wire connection that touches any metal on the machine. 2. Defective motor touching improperly grounded metal on the machine. 3. <i>Wire</i> , <i>Power Cord</i> or <i>Terminal</i> with worn insulation.	1. Check for damaged or loose wires and make sure all ground wires are properly connected. 2. Replace defective motor and make sure all ground wires are properly connected. 3. Replace <i>Wire</i> , <i>Power Cord</i> or <i>Terminal</i> .

VACUUM SYSTEM		
SYMPTOM	POSSIBLE CAUSE	SOLUTION
Vacuum motor is running with little or no vacuum to floor nozzle or hand tool nozzle.	1. <i>Lid</i> is not secure. 2. Defective or missing <i>Lid Gasket</i>. 3. Accessory hoses at back of the machine are not connected. 4. Debris blockage on <i>Lid Filter Screen</i> or <i>Sight Tubes</i>. 5. Blockage in <i>Vacuum Hose</i> or <i>Vacuum Nozzle</i>. NOTE: If <i>Vacuum Nozzle</i> plugs repeatedly the <i>Vacuum Hose</i> (10256) may be over threaded into the <i>Vacuum Nozzle</i>. Remove <i>Vacuum Hose</i> and rethread into <i>Vacuum Nozzle</i> without over threading. 6. Loose <i>Vacuum Cuffs</i>. 7. Hole in <i>Vacuum Hose</i>. 8. Damaged or missing <i>Front</i> (10031) / <i>Rear</i> (10002) <i>Nozzle Clips</i>.	1. Secure <i>Lid</i> (7LID) with <i>Bucket Handle</i> (10086). 2. Replace <i>Gasket</i>. (C4 :10081) / (C4-A :10232) 3. Connect <i>Black</i> (10070) and <i>Gray</i> (10075) <i>Hose Cuffs</i>. 4. Clean <i>Filter Screen</i> (10079), and <i>Sight Tubes</i> (10177 / 10078). 5. First check vacuum at the accessory hook up at back of unit. If there is good suction at <i>Gray Cuff</i> (10075) then the block is between the <i>Black Cuff</i> (10070) and floor <i>Vacuum Nozzle</i> or <i>Hand Tool Nozzle</i>. Clean <i>Nozzle</i> using lint hook. Clean <i>Vacuum Hose</i> using water, compressed air or a hand held pipe snake. NOTE: <i>Vacuum Nozzle</i> should be cleaned with a lint hook regularly. If suction is poor at <i>Gray Cuff</i>, the block is between the <i>Cuff</i> and <i>Lid</i> or <i>Lid</i> and <i>Duct</i> (10073). 6. Tighten <i>Vacuum Cuffs</i>. Check if threads are sealed with silicone. NOTE: DO NOT over tighten. This may cause <i>Vacuum Hose</i> to partially block <i>Vacuum Cuff</i>, catching debris and blocking vacuum. ALSO: Wipe off any excess silicone squeezed into hose. 7. If small, patch. If large, replace <i>Vacuum Hose</i>. 8. Replace <i>Nozzle Clips</i>. (See Repair Manual: <i>Replacing Front / Rear Nozzle Clips</i>).

VACUUM SYSTEM CONTINUED

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Excessive <i>Vacuum Motor</i> noise.	1. Worn <i>Vacuum Motor</i> bearings and / or fan blades.	1. Replace <i>Vacuum Motor</i> . (18007) (See <i>Repair Manual: Removing Vacuum and Brush Assembly, and Replacing Vacuum Motor.</i>)
Burnt motor smell from clean air exhaust.	1. Worn <i>Vacuum Motor</i> brushes. NOTE: Excessive sparking may also occur.	1. Replace <i>Vacuum Motor</i> (18007). (See <i>Repair Manual: Removing Vacuum and Brush Assembly, and Replacing Vacuum Motor.</i>)
All switches are ON, ONLY <i>Vacuum Motor</i> does not run.	1. Defective <i>Vacuum Motor</i> . 2. Defective <i>Switch</i> . 3. <i>Terminals</i> not connected or defective.	1. TEST: Test <i>Vacuum Motor</i> (18007) using <i>Vacuum / Brush Motor Test Cable</i> (7202) . If motor runs, there is a problem with the electrical system. NOTE: If motor does not work, replace <i>Vacuum Motor</i> (18007). (See <i>Repair Manual: Removing Vacuum and Brush Assembly, and Replacing Vacuum Motor.</i>) 2. Replace <i>Switch</i> (10108) . 3. Re-connect or replace <i>Terminals</i> .
Dirty liquid is being discharged through the <i>Vacuum Motor Exhaust Tube</i> (C4:10101 / C4-A: 10608). NOTE: The solution is being sucked into the <i>Vacuum Motor</i> and then blowing out the <i>Exhaust Tube</i> . CLEAN UP Step 1: Sit the <i>Bucket</i> aside. Move the machine to concrete surface, such as the garage. Leave the <i>Lid</i> up. Run the <i>Vacuum Motor</i> only for 1 minute to blow out any remaining liquid. Step 2: Clean the discharged dirty liquid from carpet <i>immediately!</i> <i>Spot Remover</i> or <i>7 in 1</i> may be needed. ALSO: Using the <i>Hand Tool</i> may lift spot better.	1. The cleaning solution was not poured from the <i>Bucket</i> into the <i>Solution Tank</i> . 2. Foam is building up in the <i>Bucket</i> . 3. Too much liquid was added to the <i>Solution Tank</i> .	1. Pour the cleaning solution from the <i>Bucket</i> into the <i>Solution Tank</i> . 2. Empty <i>Bucket</i> without refilling the <i>Solution Tank</i> . If available, add Anti Foam to the emptied <i>Bucket</i> . 3. Empty <i>Bucket</i> without refilling the <i>Solution Tank</i> . Do not exceed top Fill Line of <i>Bucket</i> . Add less water to the <i>Solution Tank</i> during next cleaning cycle.

PUMP SYSTEM		
SYMPTOM	POSSIBLE CAUSE	SOLUTION
<i>Pump (18006)</i> running (quietly or weak), with no or very little pressure to floor or hand tool spray tips.	1. Defective <i>Diode</i> . NOTE: The <i>Diode</i> controls which direction the piston pumps. If the <i>Diode</i> is defective, even a new <i>Pump</i> will not work.	1. TEST: Test the <i>Pump</i> using the <i>Pump Motor Test Cable (7201)</i> . If the <i>Pump</i> runs normally, replace the <i>Diode Assembly (10409)</i> . The <i>Diode Assembly</i> is the Black Wire connected to the Pump and brown wire next to the yellow wire on the <i>8 Wire Cable Assembly (18206)</i> . NOTE: Use only the <i>Pump Test Cable (7201)</i> to test the <i>Pump</i> . There is a <i>Diode</i> inline on this cable. ALSO: Over time the test Diode may need replacing.
<i>Pump</i> running at full strength, very little or no pressure to floor or hand tool spray tips.	1. Empty <i>Solution Tank</i> . Check if cleaning solution is still in removable <i>Bucket</i> . This is a most common mistake. The solution must be poured from the <i>Bucket</i> into the <i>Solution Tank</i> . 2. <i>Plug</i> is not connected to the <i>Brass Coupler</i> . NOTE: Plug may only appear to be connected to the <i>Coupler</i> . 3. Clogged <i>Pump Filter</i> . 4. Clogged <i>Spray Tips</i> .	1. Pour solution from the <i>Bucket</i> into the <i>Solution Tank</i> . 2. Pull down on the middle of the <i>Coupler (10037)</i> sleeve, without letting up on sleeve, insert the <i>Plug (10038)</i> . Release the coupler sleeve. The sleeve must snap back into position. Give the hose a tug to ensure connection. 3. Clean the <i>Pump Filter (10044)</i> . <i>Filter</i> is threaded to the <i>45D Brass Elbow (18211)</i> connecting the <i>Pump</i> to the <i>Solution Tank</i> . NOTE: Reinstall the <i>45D Elbow</i> and <i>Filter</i> carefully to avoid cross threading the <i>Solution Tank</i> . 4. Remove and clean <i>Spray Tips (10042) / (10050)</i> .

PUMP SYSTEM CONTINUED

SYMPTOM	POSSIBLE CAUSE	SOLUTION
<i>Trigger Switch</i> or <i>Hand Tool Switch</i> are activated and <i>Pump</i> DOES NOT run.	1. Loose <i>Wire</i> or <i>Terminal</i> connection. Or Defective <i>Switch</i> or <i>Terminal</i> .	1. Test: Test <i>Pump</i> using <i>Pump Motor Test Cable</i> (7201). If <i>Pump</i> runs, there is a problem with electrical system. Look for a loose or <i>Wire Terminal</i> connection. Or replace <i>Trigger Switch</i> (18207), <i>Hand Tool Switch</i> (10108), <i>Diode Assembly</i> (10409), <i>Crimp Nut</i> (10149) or <i>Spade Terminals</i> (10119). If the <i>Pump</i> does not run, replace. (See <i>Repair Manual: Re</i>
<i>Pump</i> runs continuously.	1. <i>Hand Tool Switch</i> is on during carpet cleaning. 2. Defective <i>Trigger Switch</i> . NOTE: A defective <i>Trigger Switch</i> will run <i>Pump</i> continuously but may operate <i>Brush Motor</i> normally. 3. Stuck <i>Trigger Switch</i> .	1. Turn off <i>Hand Tool Switch</i> . NOTE: <i>Hand tool Switch</i> must be off during carpet cleaning. 2. Replace <i>Trigger Switch</i> (18207). 3. Plastic around <i>Trigger Switch</i> may need to be trimmed.

BRUSH SYSTEM

SYMPTOM	POSSIBLE CAUSE	SOLUTION
<i>Brush</i> will not turn when <i>Trigger Switch</i> is activated, but will turn freely by hand.	1. Defective <i>Trigger Switch</i> . NOTE: A defective <i>Trigger Switch</i> will NOT run the <i>Brush Motor</i> but may operate the <i>Pump</i> normally.	1. Test: Inspect <i>Terminals</i> . Test <i>Brush Motor</i> (18005) using <i>Vacuum/Brush Motor Test Cable</i> (7202). If the motor runs there is a problem with the electrical system. Look for a loose <i>Wire</i> or <i>Terminal</i> connection. Or replace the <i>Trigger Switch</i> (18207) or <i>Spade Terminals</i> . If <i>Brush Motor</i> does not run, replace (See <i>Repair Manual: Removing Vacuum and Brush Assembly, and Replacing Brush Motor</i>).

BRUSH SYSTEM CONTINUED

SYMPTOM	POSSIBLE CAUSE	SOLUTION
<i>Brush</i> will not turn when <i>Trigger Switch</i> is activated, but will turn freely by hand.	2. <i>Brush Motor Circuit Breaker</i> has tripped.	2. Insure that <i>Brush</i> (10013) turns freely by hand. Reset <i>Circuit Breaker</i> (10113). NOTE: If <i>Brush</i> does not turn freely by hand inspect <i>Brush Assembly</i> (18210). (See <i>Repair Manual: Removing Brush Assembly, and Rebuilding Brush Assembly</i>).
	3. Loose <i>Wire</i> , <i>Crimp Nut</i> or <i>Terminal</i> connection.	3. Reconnect loose connection or replace <i>Crimp Nut</i> or <i>Spade Terminal</i> .
	4. Reversed wires.	4. Black wire must be connected to red and black wire. White wire must be connected to solid red wire.
	5. Broken <i>Gear Belt</i> .	5. Replace <i>Gear Belt</i> (10011).
	6. Slipping <i>Pulley</i> (10010).	6. Reattach <i>Pulley</i> (10010) to <i>Brush Shaft</i> (10012) ensuring set screws and dimples in <i>Brush Shaft</i> (10012) align.
<i>Brush</i> will NOT turn when <i>Trigger Switch</i> is activated and will not turn by hand.	1. Debris clogging <i>Bearing Assy</i> / seized <i>Bearings</i> .	1. Remove <i>Brush Assembly</i> (18210) Clean/replace: <i>Bearings</i> (10017), <i>Bearing Block</i> (10195), <i>Brush Washer</i> (10183).
	2. Seized <i>Brush Motor</i> .	2. Replace <i>Brush Motor</i> (18005). Also inspect <i>Brush Assembly</i> (18210).
<i>Brush Motor</i> runs continuously.	1. Defective <i>Trigger Switch</i> . NOTE: A defective <i>Trigger Switch</i> will run <i>Brush Motor</i> continuously but may operate the <i>Pump</i> normally.	1. Replace the <i>Trigger Switch</i> (18207).

REPAIR MANUAL

REMOVING THE VACUUM AND BRUSH ASSEMBLIES

1. Turn all switches OFF and UNPLUG the unit.
2. Remove *Door (10606)*. Using a #2 *Phillips Screwdriver* remove (4) 10-24 *Bolts (10150)* attaching *Door* to *Solution Tank*.
3. Disconnect the (2) *Blue Wires* marked "V", (2) *Red Wires* marked "B" and (3) *Green (Ground) Wires*.
4. Using a 5/16 *Nut Driver* unscrew the *Duct Clamp (10071)* then disconnect the *Duct Cuff (10077)*.

NOTE: On older C-4 machines the *Duct Clamp* cannot be accessed from the back of the unit. The *Clamp* will have to be removed after the *Brush Assembly* is laid forward and the *Vacuum Assembly* has been pulled up and forward.

5. Remove the *Exhaust Tube C4:(10101) C4-A:(10608)*.
6. Disconnect the *Brass Plug (10038)* and *Coupler (10037)* and *Vacuum Cuffs (10070 / 10075)*.
7. Remove the *Brush and Vacuum Assemblies*. Using a #2 *Phillips Screwdriver* remove (3) 10-24 *Bolts (10150)* and using 3/8 *Nut Driver* remove the (1) 10-24 *Nut (10273)* attaching the *Brush Assembly* to the *Solution Tank*. Next using a #3 *Screwdriver* remove the (4) 1/4-20 *Bolts (10178)*, remove the *Duct Strap (10076)*. Next lift the *Brush Assembly* up to clear the *Stud (10187)* then lay assembly forward. Lift the *Vacuum Motor Assembly* out of the unit. Now the *Brush Assembly* can also be removed.

NOTE: On Model C4-A machines, re-silicone the inner surface of the *Exhaust Tube (10608)* that touches the *Vacuum Motor (18007) Exhaust Port* before reassembling the unit.

REPLACING THE VACUUM MOTOR (18007)

1. Turn all switches OFF and UNPLUG the unit.
2. See (Removing Vacuum and Brush Assembly).
3. Remove the *Vacuum Motor (18007)* from the *Duct (10073)*. Using 2 wrenches with 7/16 sockets unscrew the (3) 1/4-20 *Nuts (10137)* and 1/4-20 *Bolts (10063)*.

NOTE: When reassembling the *Vac Motor Assembly* make sure the washers are replaced in the correct location. (See *Parts Diagram*)

NOTE: Do not over tighten the *Nuts (10137)*. This may result in cracking the *Vacuum Motor*.

NOTE: Inspect all wires and hoses for damage before reassembling unit.

NOTE: Before reassembling the unit, all components should be cleaned.

NOTE: While the unit is apart the *Brush Assembly* should be inspected.

NOTE: Ensure ground (green) wires are reconnected.

REPLACING THE BRUSH MOTOR (18005)

1. Turn all switches OFF and UNPLUG the unit.
2. See (Removing Vacuum and Brush Assembly).
3. Disconnect the *Brush Motor (18005) Ground (Green) Wire*, using the 5/16 *Nut Driver* remove (1) 10-32 *Bolt (10152)*, from the *Housing Brush (10001)*.
4. Using 5/16 *Nut Driver* remove the top (2) 10-24 *Bolts (10190)* holding down the (2) *Brush Motor Straps (10008)*.

NOTE: Do not remove the bottom (2) *Bolts* holding down the *Brush Motor Straps*.

5. Bend both *Straps* up. Tilt the *Pulley* side of the *Brush Motor* down to slip pulley out from under the *Belt (10011)*.

NOTE: While the *Brush Motor* is out, inspect the *Belt (10011)* and *Bearing Block Assemblies (18016)*. Remove any hair or dirt. (See *Rebuilding Brush Assembly*).

NOTE: Show extra care when threading bolts into the aluminum *Brush Housing*, to avoid cross threading.

NOTE: Inspect all wires and hoses for damage before reassembling unit.

NOTE: Before reassembling the unit all components should be cleaned.

NOTE: Ensure green (ground) wires are reconnected.

REPLACING THE PUMP MOTOR (18006)

1. Turn all switches OFF and UNPLUG the unit.
2. Remove the *Door (10606)*. Using a #2 *Phillips Screwdriver* remove (4) *10-24 Bolts (10150)* attaching the *Door* to the *Solution Tank*.
3. Disconnect the *Yellow Wire* marked "P", *Black Wire* and *Green (Ground) Wire*.
4. Using *Side Cutters (Dikes)* cut through *5/16 Clamp (10043)* that connects the *Solution Hose (10238)* to the *Brass Elbow (18211)*.
5. Install rebuilt or new *Pump Assembly (4PUM)* or *(4PUM-A)*.

NOTE: Ensure *Ground (Green) Wire* is reconnected.

REMOVING THE BRUSH ASSEMBLY (18210)

1. Remove *Belt Cover (10100)*. Using a #2 *Phillips Screwdriver* remove (2) *6-32 Bolts (10026 / 10230)*.
2. Disconnect *Belt (10011)* from *Pulley (10009)*. With thumb and index finger pull *Belt* toward yourself and down, rotating *Belt* off the *Pulley*.

NOTE: The *Pulley (10009)* on some units may have a flange. Using *Pliers* remove the flange and throw it away. This will enable the *Belt* to be removed.

3. Remove the *Brush Bracket (10016)*. Using a #2 *Phillips Screwdriver* remove (1) *10-24 Bolt (10150)*. Using a *3/8 Nut Driver* remove (1) *10-24 Hex Nut (10273)*.
4. Lift up on the *Pulley (10010)* side of the *Brush Assembly (18210)* to rotate out of the *Brush Housing (10001)*.

REBUILDING THE BRUSH ASSEMBLY (18210)

1. Remove the *Brush Pulley (10010)* by removing (2) *Set Screws (10276)* using a *5/64 Allen Wrench*.

NOTE: First use a *Heat Gun* or *Torch* to expand the *Pulley*, making it much easier to remove the *Set Screws* and slide the *Pulley* off the *Shaft (10012)*. **NOTE:** When reassembling the *Pulley* add a drop of *Light Duty Thread Locker* to *Set Screws*. Align *Pulley Set Screws* and the *Shaft dimples*. Without rotating the *Pulley*, slide it onto the *Shaft* until only the chamfered edge of the *Shaft* is sticking through the *Pulley*. Tighten only (1) *Set Screw*. Turn the *Pulley* back and forth. The *Set Screw* should rock in the dimple but it should not rotate. If it rotates, it is not in the dimple and should be reset. Once in dimple, tighten second *Set Screw*.

2. Remove *Bearing Assemblies (18016)*.
3. Clean and inspect *Bearing Assemblies*, removing any hair and dirt. **NOTE:** If *Bearing (10017)*, *Bearing Block (10195)*, or *Brush Core Washer (10183)* are worn or damaged, replace them.
4. Inspect the ends of the *Brush Shaft (10012)* for dirt or corrosion buildup. Clean with low abrasive emery cloth and oil.
5. Inspect *Brush (10013)* for wear, replace if necessary.

REPLACING THE FRONT NOZZLE CLIP (10031)

1. Turn all switches OFF and UNPLUG the unit.
2. Using a #2 *Phillips Screwdriver* remove (3) *8-32 Bolts (10274)* attaching *Front Nozzle Clip (10031)* to *Brush Housing (10001)*.
3. Remove *Front Nozzle Clip* from *Brush Housing*.
4. Scrape away any remaining silicone from the inside of the *Brush Housing Vacuum Nozzle*.
5. Apply a thin bead of silicone to the new *Vacuum Nozzle Clip* outer surface that touches the inside of the *Brush Housing Vacuum Nozzle*.
6. Insert *Front Nozzle Clip* into *Vacuum Nozzle*.
7. Add a drop of heavy-duty thread locker to the (3) threaded inserts in the *Front Nozzle Clip*.
8. Thread (3) *Bolts* into *Front Nozzle Clip* threaded inserts.
9. Wipe away excess thread locker and silicone from the outside and inside of *Vacuum Nozzle*.

REPLACING THE REAR NOZZLE CLIP (10002)

1. Turn all switches OFF and UNPLUG the unit.
2. Using a #2 Phillips Screwdriver remove (2) 6-32 Bolts (10004) attaching Rear Nozzle Clip to the Brush Housing (10001).
3. Remove Rear Nozzle Clip (10002) from Brush Housing.
4. Scrape away any remaining silicone from Brush Housing.
5. Apply a bead of silicone to the inside of new Rear Nozzle Clip.
6. Attach to Brush Housing.
7. Add a drop of light-duty thread locker to 2 threaded holes in Brush Housing.
8. Thread (2) Bolts into Brush Housing. **NOTE:** Be careful not to cross thread Brush Housing.
9. Wipe away any excess thread locker and silicone from the outside and inside of Vacuum Nozzle.

REPLACING THE TRIGGER SWITCH (18207)

1. Turn all switches OFF and UNPLUG the unit.
2. Remove Control Panel (10118). Using a #2 Phillips Screwdriver remove (4) 6-32 Bolts (10026) attaching the Control Panel (10118) to the Handle (10020).
3. Using a ¼" Nut Driver remove (2) 8-32 Bolts (2037) attaching Switch Mount Bracket (10117) to the Handle.
4. Reaching inside the Handle, pull out the Switch Mount Bracket while from the outside push the Trigger Switch into the slotted Handle opening.
5. Remove the Crimp Nuts (10149) and Wire Ties (10158) attached to the Brown and Black Wires. Disconnect the Red Wire from the Circuit Breaker (10113).
6. Remove Trigger Switch from Switch Mount Bracket. Using ¼" and 11/32" Nut Drivers unscrew (2) 8-32 Bolts (10189) and (2) 8-32 Nuts (10021).

NOTE: Ensure a good crimp when installing new Crimp Nuts.

NOTE: Remember to replace the cut Wire Ties.

NOTE: When attaching Switch Mount Bracket to Handle start threading (2) 8-32 Bolts (2037) into Switch Mount Bracket by hand to avoid cross threading.

REPLACING THE ROCKER SWITCH (10108) & ROCKER SWITCH CAP (10114), OR ROCKER SWITCH ASSEMBLY (10308):

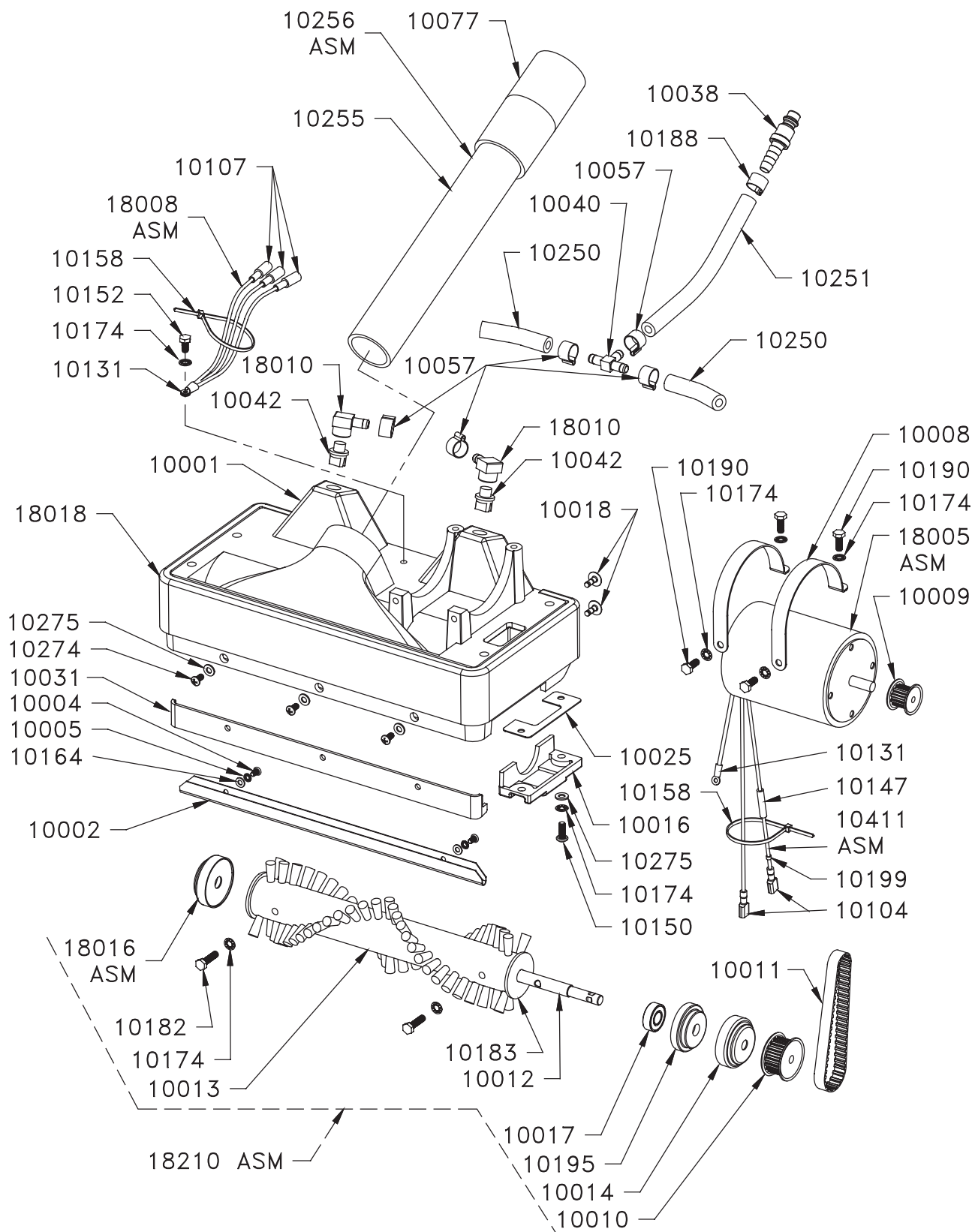
1. Turn all switches OFF and UNPLUG the unit.
2. Remove Control Panel (10118). Using a #2 Phillips Screwdriver remove (4) 6-32 Bolts (10026) attaching the Control Panel to the Handle (10020).
3. Depress molded retention springs on either side of the Rocker Switch (10108), or Rocker Switch Assembly (10308), while pushing it through the Control Panel opening.
4. Before disconnecting Wire Terminals take note as to which Rocker Switch Terminal each comes from. Disconnect the Wire Terminals from the old Rocker Switch, and re-connect them to the corresponding new Rocker Switch Terminals.
5. If the Rocker Switch Cap (10114) from the old Rocker Switch is in good salvageable condition attach it to the new Rocker Switch, if not attach a new Rocker Switch Cap. A drop of super glue where the Rocker Switch and Rocker Switch Cap attach will ensure the Rocker Switch Cap stays attached. If installing the Rocker Switch Assembly (10308) you may skip this step.
6. Install the new Rocker Switch by pushing it through the switch opening in the Control Panel.

NOTE: Inspect all Wires, Terminals, and Crimp Nuts. Replace any defective components.

NOTE: Remember to replace the cut Wire Ties.

NOTE: Rocker Switches should always have a Rocker Switch Cap. Always replace when missing.

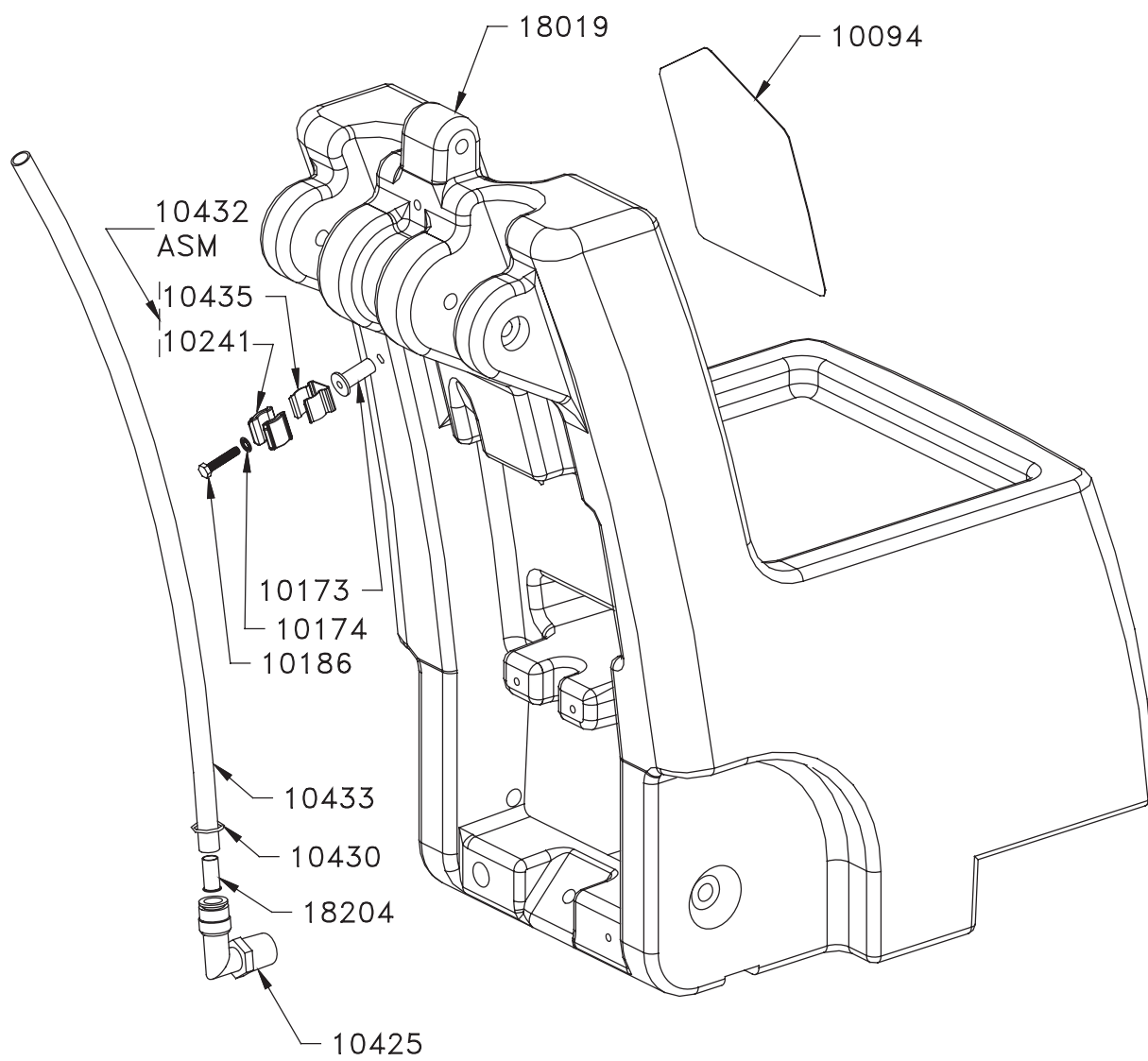
MODEL C4 PARTS DIAGRAM



REV. 7-06-05

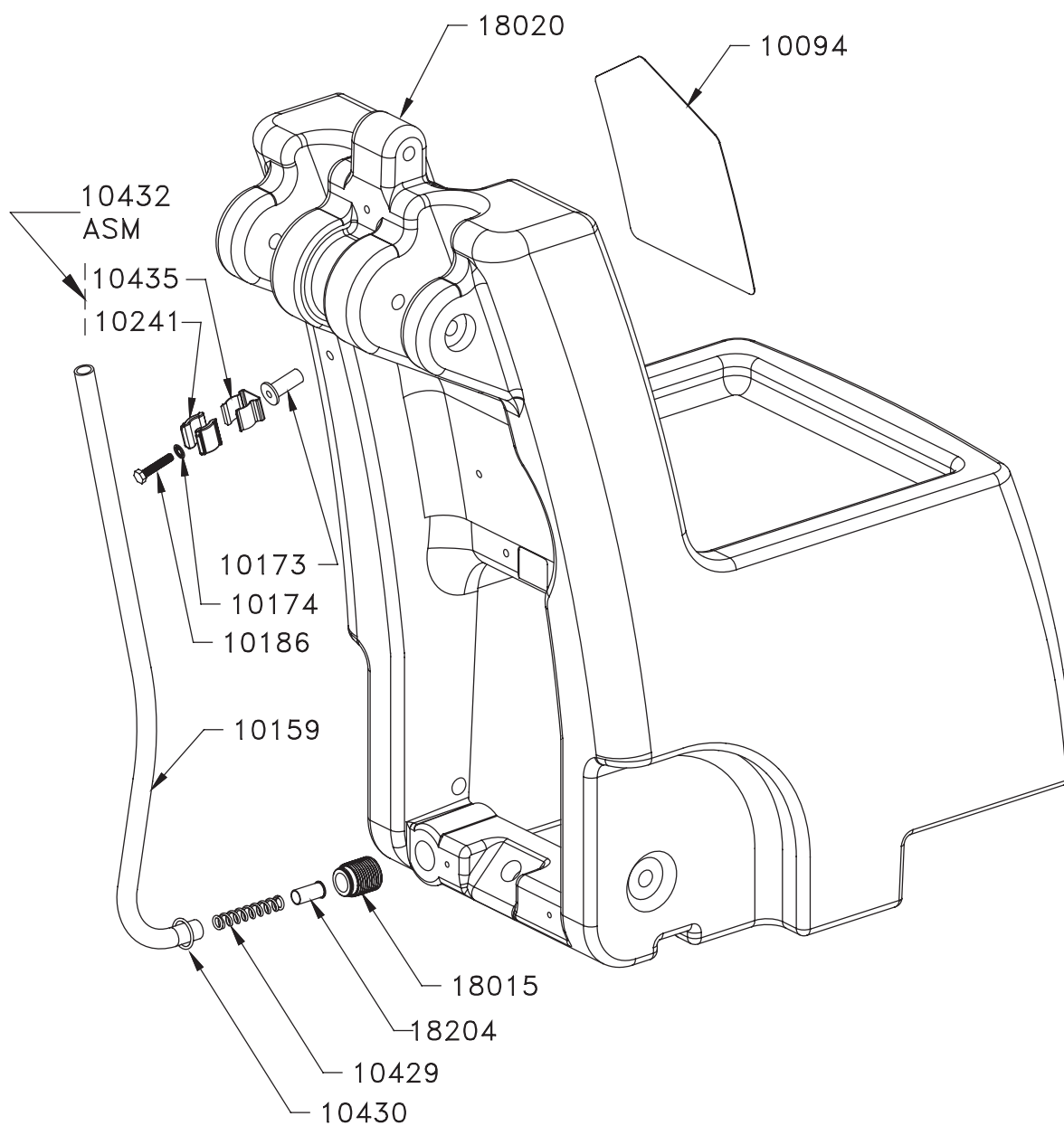
Brush Assembly C4 / C4-A

Part #	Description	Qty	Notes
10001	Housing, Brush/Alum. Casting	1 ea	
10002	Clip, Nozzle-Rear	1 ea	
10004	Bolt, 6-32 x 1/4 Phil SS	2 ea	
10005	Washer, Lock #6 SS	2 ea	
10008	Strap, Motor Brush	2 ea	
10009	Pulley, Threaded-Motor	1 ea	
10011	Belt, Gear	1 ea	
10016	Bracket, Brush	1 ea	
10018	Rivet, Alum 5/32 x 1/4	4 ea	
10025	Gasket, 2 Part-Brush/Sw. Panel	1 ea	
10031	Clip, Nozzle-Front	1 ea	
10038	Brass, Plug 1/4 Barb	1 ea	
10040	Brass, T-1/4 x 1/4 x 1/4 Barb	1 ea	
10042	Spray Tip 11007 1/8 Mnpt-Got.	2 ea	
10057	Clamp, 1/4 Sol. Hose-Zinc	5 ea	
10150	Bolt, 10-24 x 1/2 Phil SS	1 ea	
10152	Bolt, 10-32 x 3/8 Hex Ground, Grn	1 ea	
10158	Wire, Tie-6"	2 ea	
10164	Washer, Flat #8 SS	2 ea	
10174	Washer, Lock #10 SS	6 ea	
10188	Clamp, 1/4 Sol. Hose-SS	1 ea	
10190	Bolt, 10-24 x 1/2 Hex SS	4 ea	
10250	Hose, Solution-90D Elbow to T - 1/4 I.D. x 2 3/8	2 ea	
10251	Hose, Solution-Plug to T - 1/4 I.D. x 21	1 ea	
10256	Hose, Vac Nozzle to Disconnect with Cuff	1 ea	
10077	Cuff, Hose-Female, Black	1 ea	
10255	Hose, Vac Nozzle to Disconnect 1 1/4 I.D. x 21	1 ea	
10274	Bolt, 8-32 x 5/16 Phil SS	3 ea	
10275	Washer, Flat #10 SS	4 ea	
18005	Motor-Brush Wired C4 115 Volt Assembly	1 ea	
NFS	Motor, Brush C-4 115 Volt, Unwired	1 ea	
10104	Terminal, Spade-Male	2 ea	
10131	Terminal, Ring #10	1 ea	
10199	Tag, Wire B/Brush Motor (C4)	1 ea	
18008	Wire, Ground Housing Brush Assembly	3 ea	
10107	Terminal, Bullet Female-Ground	1 ea	
10131	Terminal, Ring #10	1 ea	
18010	Brass, Elbow 90 D	2 ea	
18018	Bumper, Assembly	1 ea	
18210	Brush Core Sub-Assembly	1 ea	
10010	Pulley, Set Screw-Shaft	1 ea	
10012	Shaft, Brush	1 ea	
10013	Brush, Reel With Flange	1 ea	
10183	Washer, Brush Core	2 ea	
10174	Washer, Lock #10 SS	2 ea	
10182	Bolt, 10-24 x 3/4 Hex SS	2 ea	
18016	Bearing Block Assembly	2 ea	
10014	Bearing, Cap (metal)	1 ea	
10017	Bearing, Ball SS	1 ea	
10195	Bearing, Block (clear rubber)	1 ea	



REV. 12-1-03

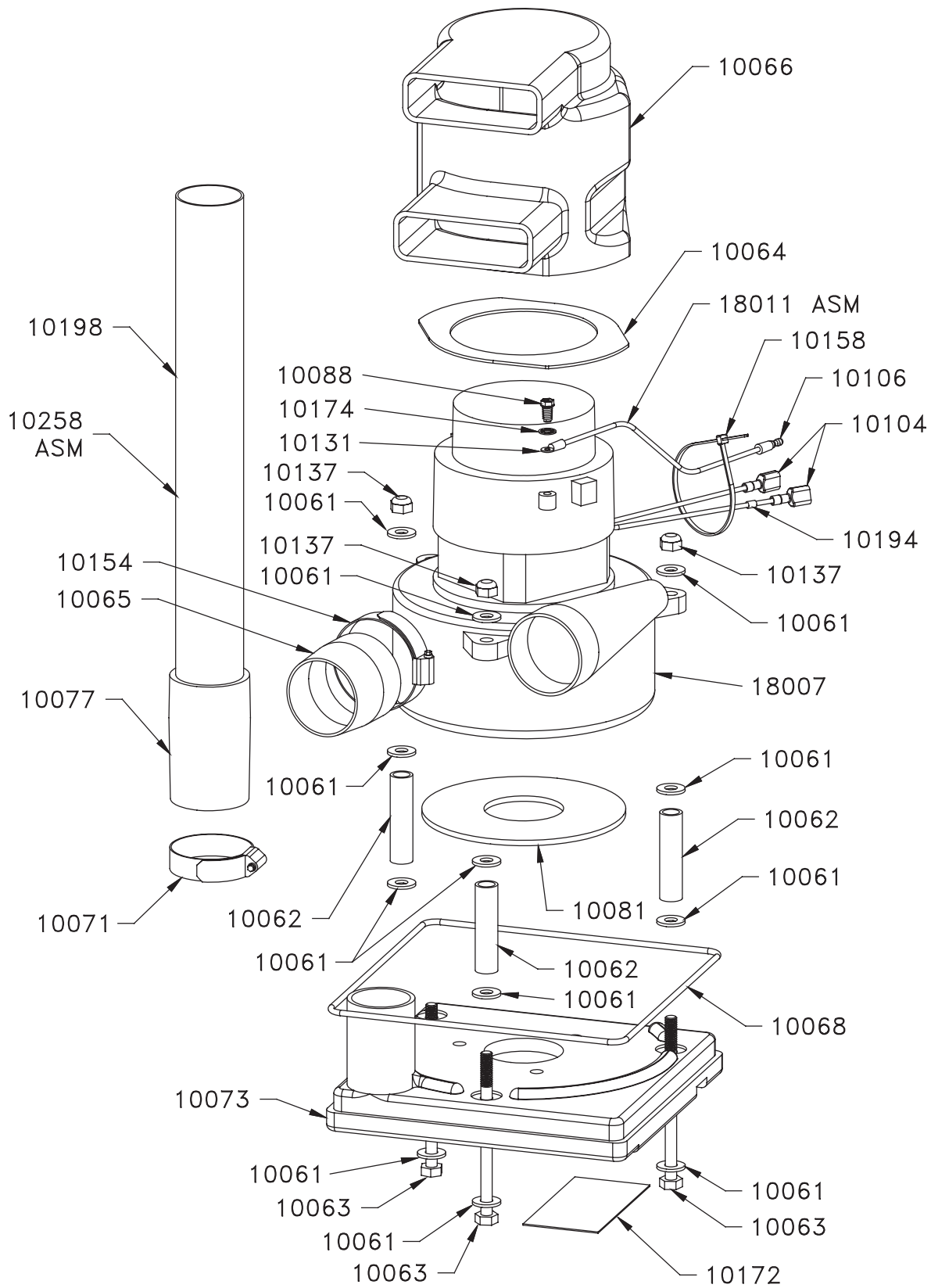
Solution Tank C4							
Part #	Description			Qty	Notes		
18002	Solution Tank, Assembly C4			1 ea			
	10094	Decal, "Note Pour Here"		1 ea			
	16005	Kit, Drain		1 ea			
		10173	Nut, Well 10-32		1 ea		
		10174	Washer, Lock #10 SS		1 ea		
		10186	Bolt, 10-32x1 Hex SS		1 ea		
		10425	Drain, Elbow 90D		1 ea		
		10430	Drain, O-Ring		1 ea		
		10432	Drain, Clip Assembly		1 ea		
			10241	Cover, Drain Hose Clip		2 ea	
			10435	Drain, Clip		1 ea	
		10433	Drain, Hose 20"		1 ea		
		18204	Drain, Insert, Hose, Brass		1 ea		
	18019	Solution Tank, Gray		1 ea			



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Solution Tank C4-A

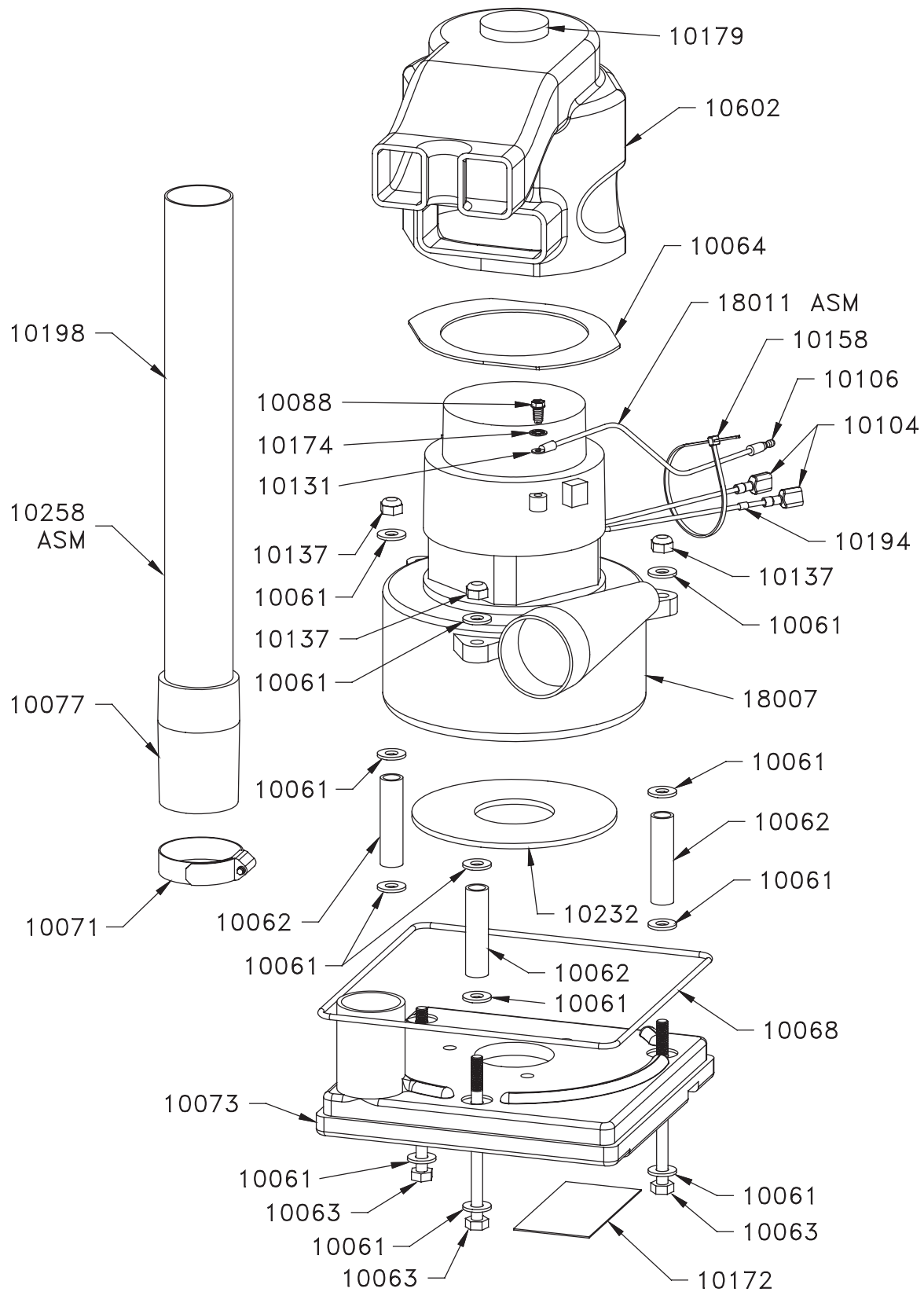
Part #	Description		Qty	Notes
18009	Solution Tank, Assembly C4-A		1 ea	
	10094	Decal, "Note Pour Here"	1 ea	
	16006	Kit, Drain C4-A	1 ea	
		10159 Drain Tube, 3/8 I.D., 1/2 O.D. x 22.5	1 ea	
		10173 Nut, Well 10-32	1 ea	
		10174 Washer, Lock #10 SS	1 ea	
		10186 Bolt, 10-32 x 1 Hex SS	1 ea	
		10429 Drain, Spring SS C4-A	1 ea	
		10430 Drain, O-Ring	1 ea	
		10432 Drain, Clip Assembly	1 ea	
			10241 Cover, Drain Hose Clip	2 ea
			10435 Drain, Clip	1 ea
		18015 Drain, Threaded Sleeve w/Cart	1 ea	
		18204 Drain, Insert, Hose, Brass	1 ea	
	18020	Solution Tank, Gray C4-A	1 ea	



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Vacuum Assembly C4

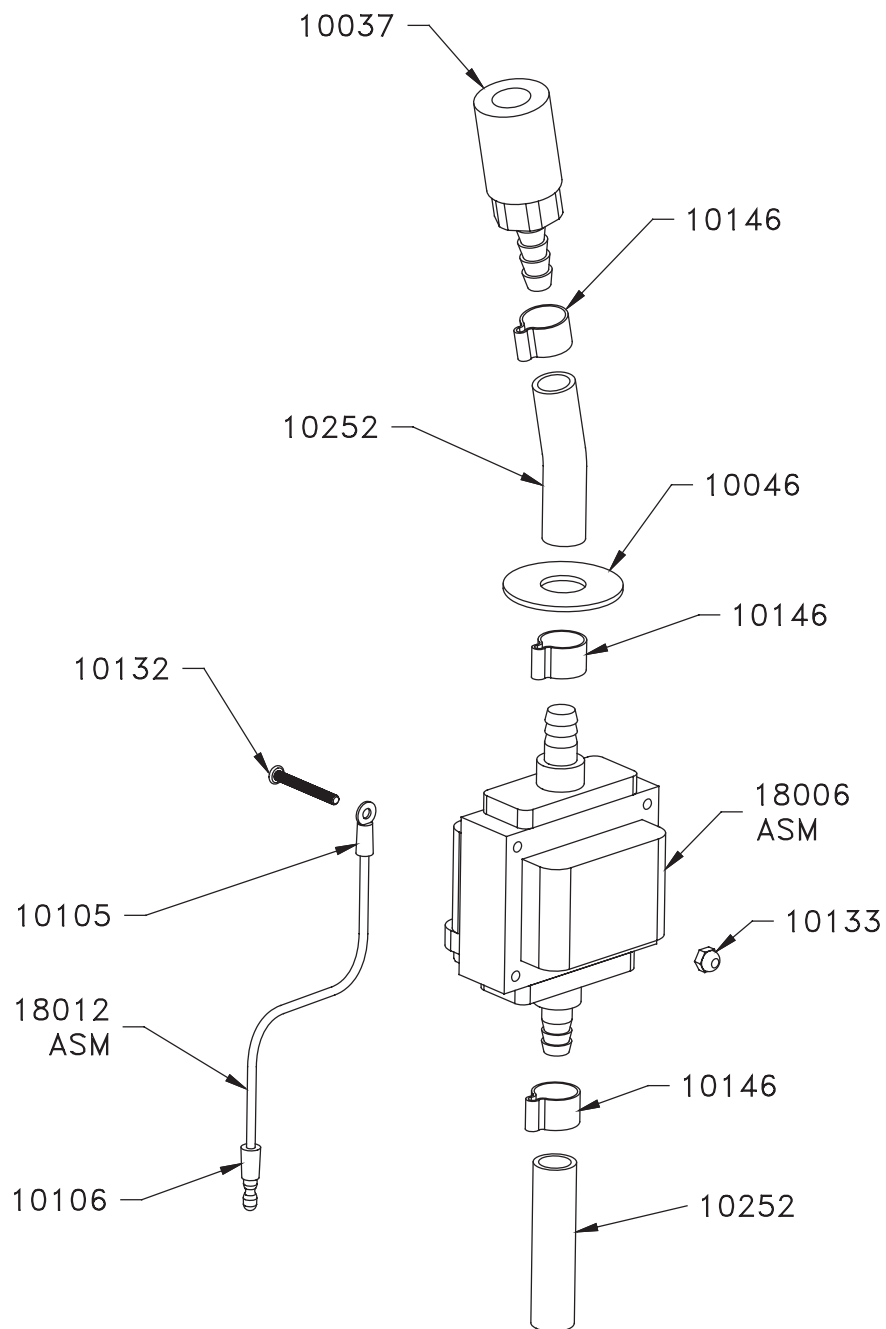
Part #	Description	Qty	Notes
10061	Washer, Flat 1/4" SS	12 ea	
10062	Stand-Off, Vac Motor-Alum.	3 ea	
10063	Bolt, 1/4-20x3 3/4" Hex SS	3 ea	
10064	Air, Separator-Vacuum Motor	1 ea	
10065	Sleeve, Rubber	1 ea	
10066	Motor Cover, Vacuum	1 ea	
10068	O-Ring, Duct	1 ea	
10071	Clamp Gear, Duct-1 3/4" SS	1 ea	
10073	Duct, Vacuum	1 ea	
10081	Gasket, Lid/Duct-3/8"	1 ea	
10137	Nut, 1/4-20 Nylock SS	3 ea	
10154	Clamp Gear, 2" Vacuum Motor	1 ea	
10172	Decal, Caution-Duct	1 ea	
10258	Hose, Vacuum Duct to Lid w/Cuff Assembly	1 ea	
10077	Cuff, Hose-Vac Duct Black	1 ea	
10198	Hose, Vac-Duct to Lid 26"	1 ea	
18007	Motor-Vacuum Wired C4 115 Volt Assembly	1 ea	
NFS	Motor, Vacuum-Unwired	1 ea	
10088	Screw, #10 Self Tap Ground Green	1 ea	
10104	Terminal, Spade-Male	2 ea	
10158	Wire, Tie-6"	2 ea	
10174	Washer, Lock #10 SS	1 ea	
10194	Tag, Wire (V) Vacuum Motor	1 ea	
18011	Ground Wire-Motor, Vacuum Assembly	1 ea	
10106	Terminal, Bullet Male-Ground	1 ea	
10131	Terminal, Ring #10	1 ea	



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Vacuum Assembly C4-A

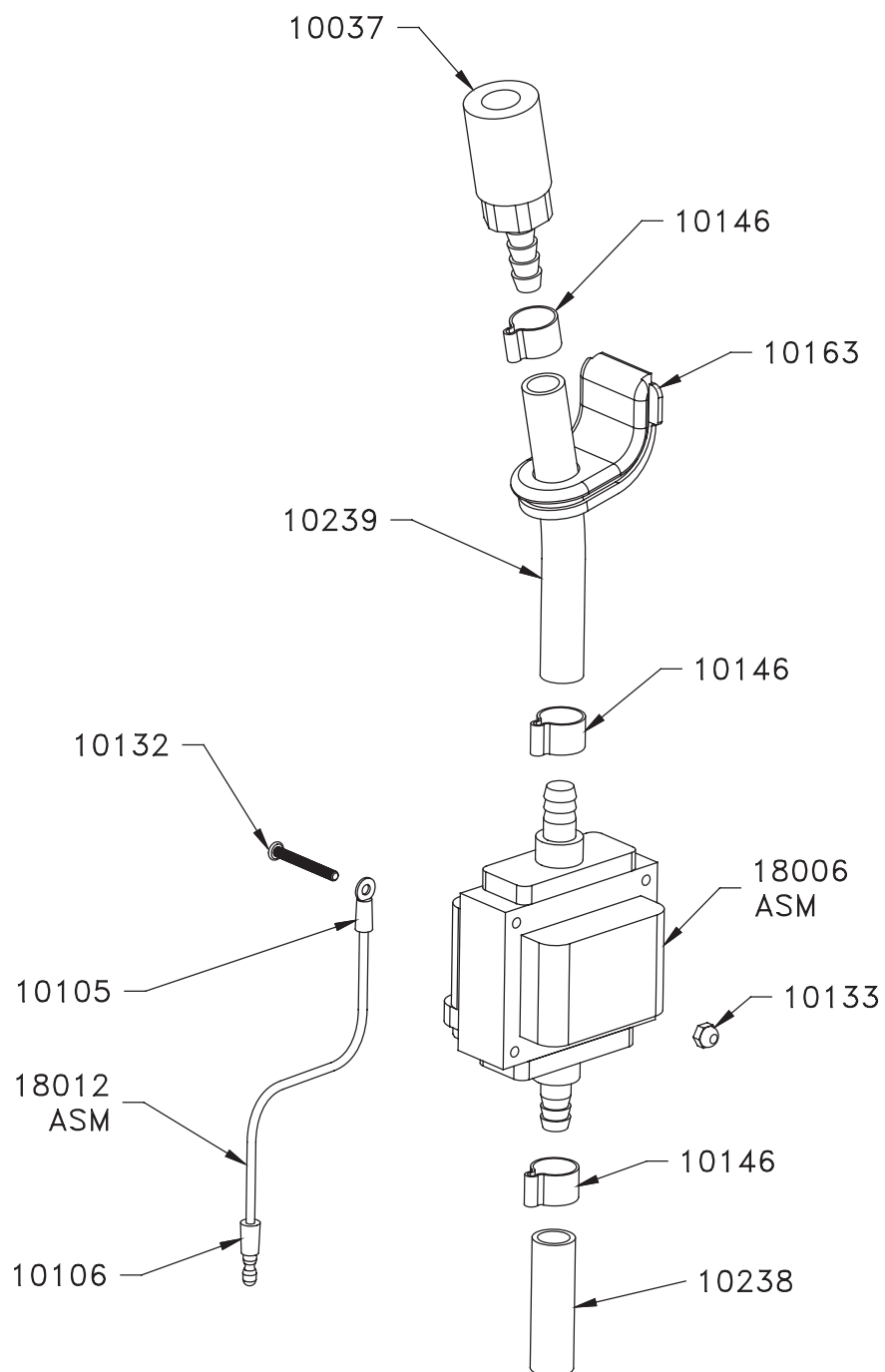
Part #	Description	Qty	Notes
10061	Washer, Flat 1/4 SS	12 ea	
10062	Stand-Off, Vac Motor-Alum.	3 ea	
10063	Bolt, 1/4-20 x 3 3/4 Hex SS	3 ea	
10064	Air, Separator -Vacuum Motor	1 ea	
10068	O-Ring, Duct	1 ea	
10071	Clamp Gear, Duct-1 3/4 SS	1 ea	
10073	Duct, Vacuum	1 ea	
10137	Nut, 1/4-20 Nylock SS	3 ea	
10172	Decal, Caution-Duct	1 ea	
10179	Gasket, Vacuum Motor Cover 3 X 1/4	1 ea	
10232	Gasket, Lid / Duct-1/4 C4-A	1 ea	
10258	Hose, Vacuum Duct to Lid w/Cuff Assembly	1 ea	
10077	Cuff, Hose-Vac Duct Black	1 ea	
10198	Hose, Vac-Duct to Lid 26	1 ea	
10602	Motor Cover, Vac C4-A	1 ea	
18007	Motor-Vacuum Wired C4 115 Volt Assembly	1 ea	
NFS	Motor, Vacuum-Unwired	1 ea	
10088	Screw, #10 Self Tap Ground Green	1 ea	
10104	Terminal, Spade-Male	2 ea	
10158	Wire, Tie-6"	2 ea	
10174	Washer, Lock #10 SS	1 ea	
10194	Tag, Wire (V) Vacuum Motor	1 ea	
18011	Ground Wire-Motor, Vacuum Assembly	1 ea	
10106	Terminal, Bullet Male-Ground	1 ea	
10131	Terminal, Ring #10	1 ea	



REV. 7-06-05

Pump Assembly C4

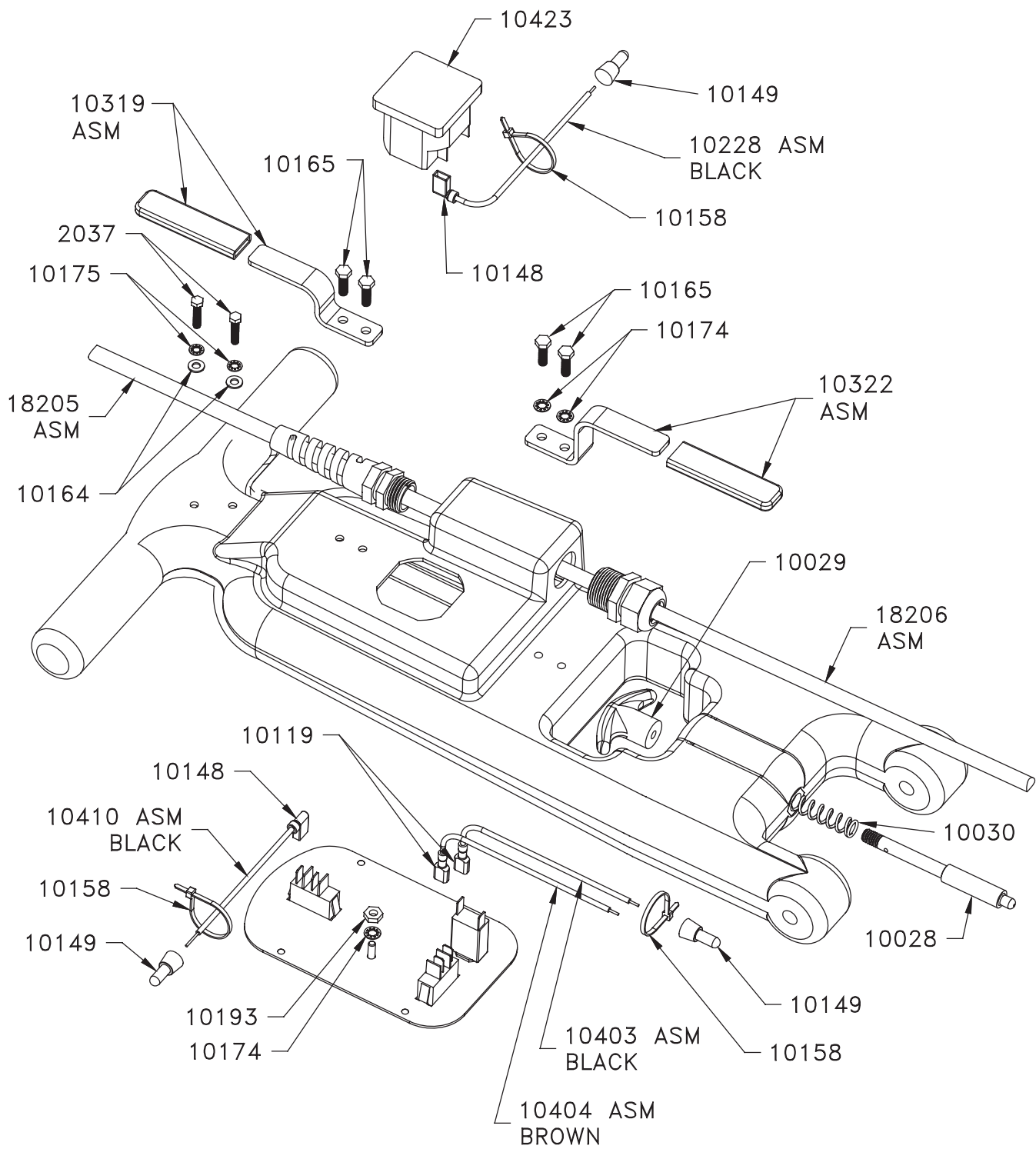
Part #	Description		Qty	Notes
4PUM	Pump, Motor Assembly		1 ea	
	10037	Coupler, Brass, 5/16 Barb-Auto	1 ea	
	10046	Washer, 1.38x.525X.062 Nylon	1 ea	
	10146	Clamp, 5/16 Sol. Hose SS	3 ea	
	10252	Hose Solution, 1 7/8"	2 ea	
	18006	Pump, Motor-Wired	1 ea	
		NFS Pump, Motor	1 ea	
		10132 Bolt, 4-40x1 Phil SS	1 ea	
		10133 Nut, 4-40 Nylock SS	1 ea	
		18012 Ground, Wire-Pump	1 ea	
		10105 Terminal, Ring #4	1 ea	
		10106 Terminal, Bullet Male-Ground	1 ea	



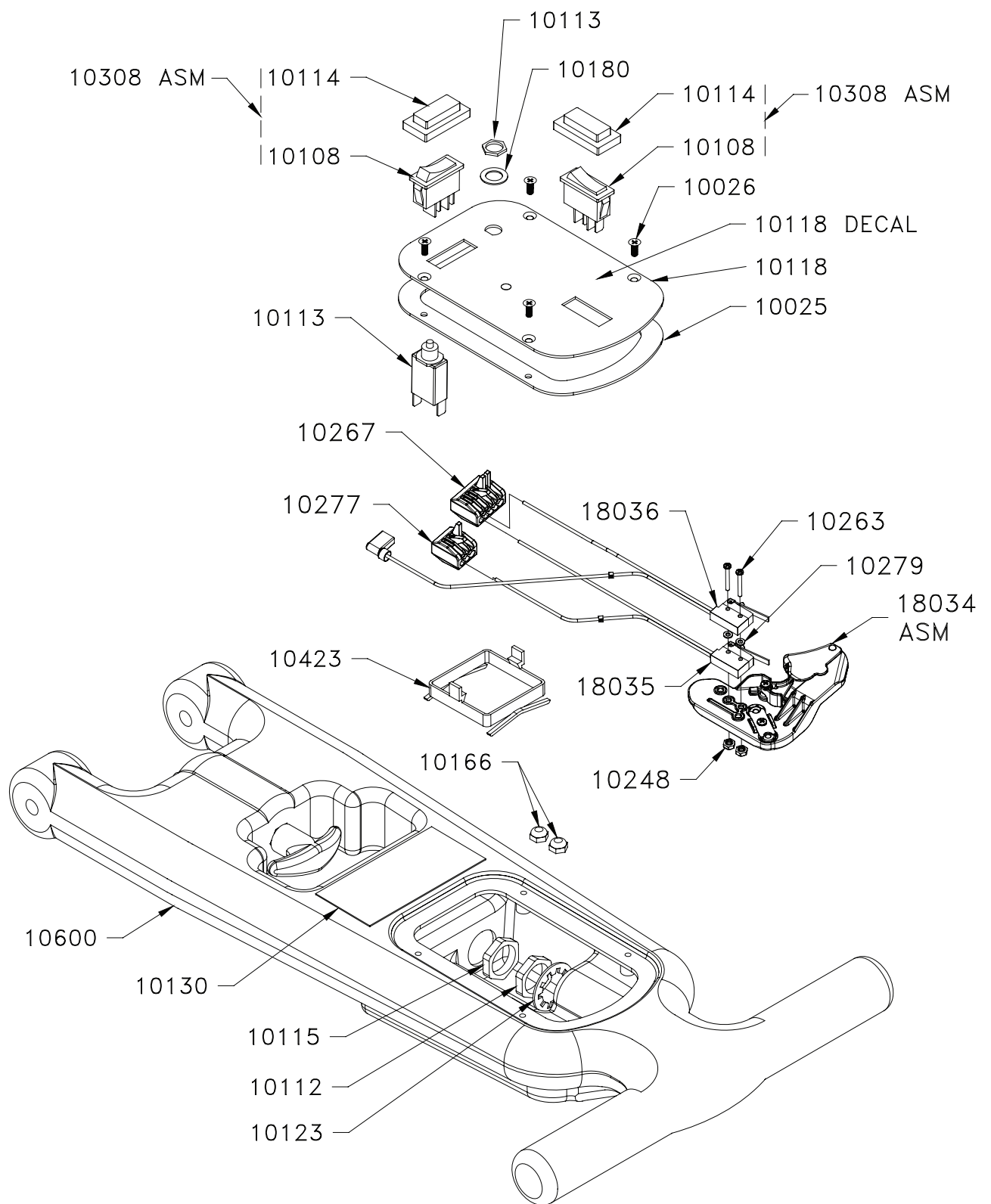
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Pump Assembly C4-A

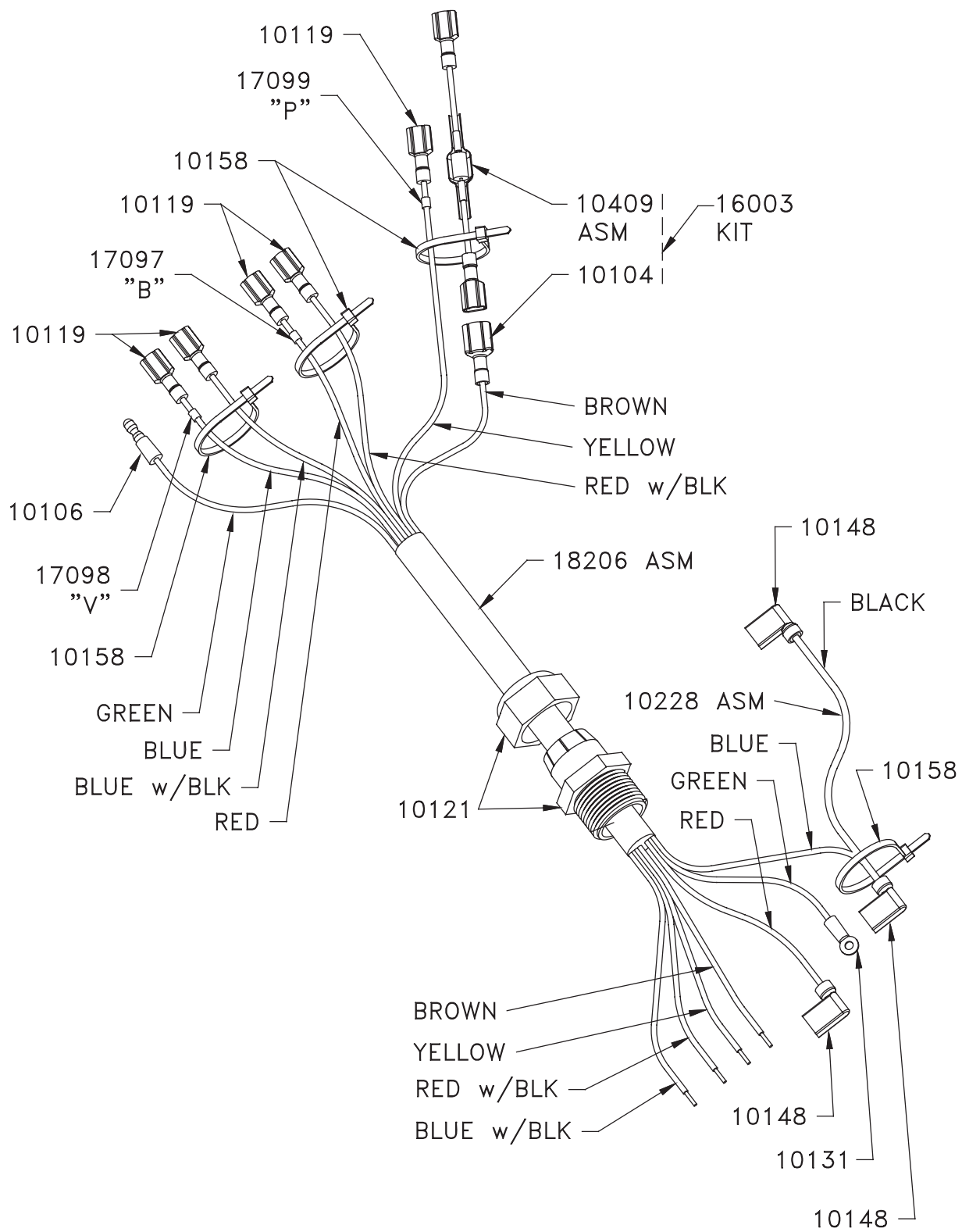
Part #	Description		Qty	Notes
4PUM-A	Pump, Motor Assembly		1 ea	
	10037	Coupler, Brass, 5/16 Barb-Auto	1 ea	
	10146	Clamp, 5/16 Sol. Hose SS	3 ea	
	10163	Grommet, Pump, Door, C4-A	1 ea	
	10238	Hose, Sol. Pump Inlet-1 5/8 C4-A	1 ea	
	10239	Hose, Sol. Pump Outlet-3 3/4 C4-A	1 ea	
	18006	Pump, Motor-Wired	1 ea	
		NFS Pump, Motor	1 ea	
		10132 Bolt, 4-40 x 1 Phil SS	1 ea	
		10133 Nut, 4-40 Nylock SS	1 ea	
		18012 Ground, Wire-Pump	1 ea	
		10105 Terminal, Ring #4	1 ea	
		10106 Terminal, Bullet Male-Ground	1 ea	



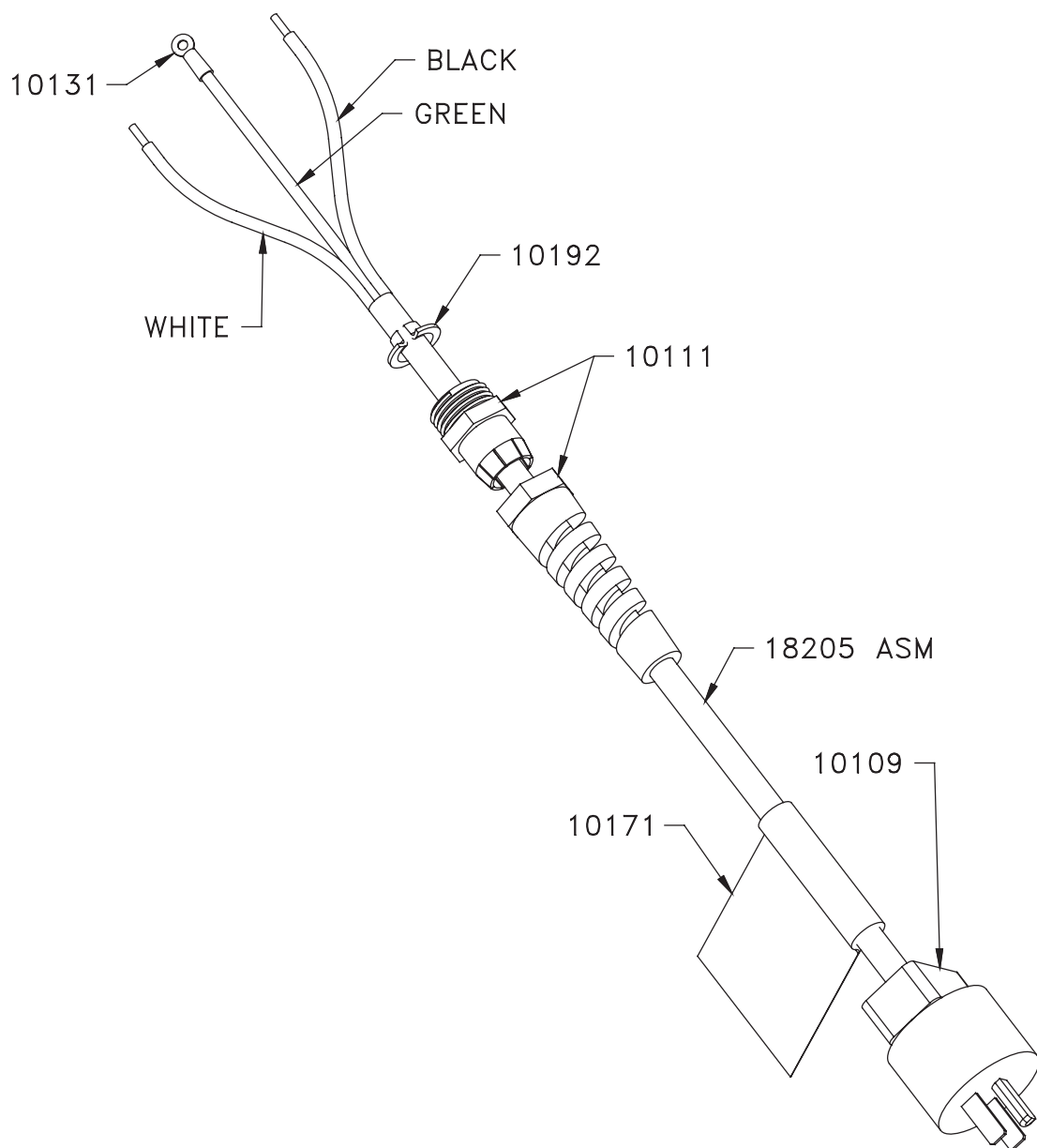
REV. 7-06-05



REV. 1-25-10



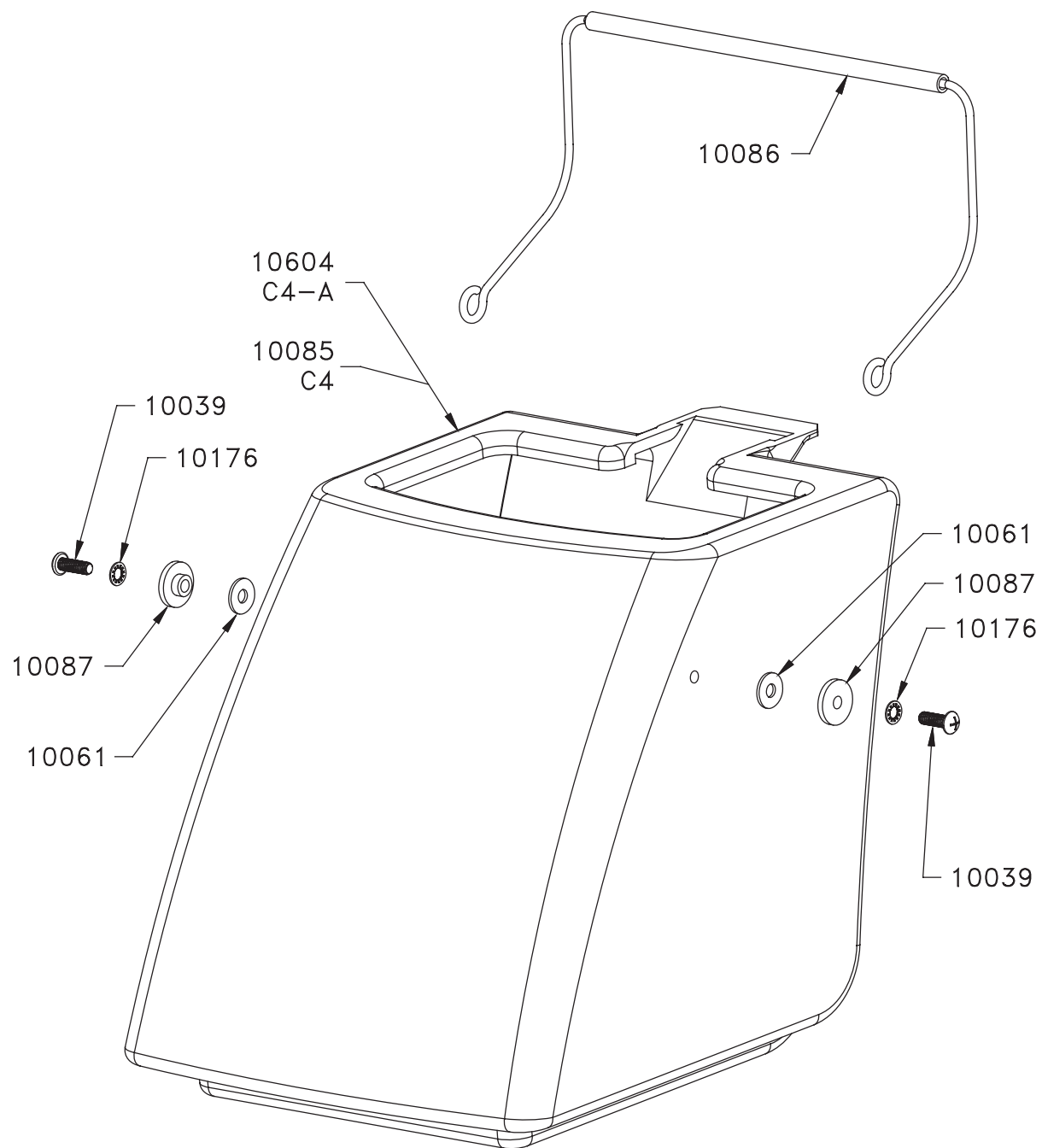
REV 1-30-02



REV 1-30-02

Handle Assembly C4 /C4-A			
Part #	Description	Qty	Notes
5HAN	Handle Assembly	1 ea	
2037	Bolt, 8-32 x 3/4 Hex SS	2 ea	
10600	Handle, Machine-Gray	1 ea	
10025	Gasket 2 Part-Brush/Sw. Panel	1 ea	
10026	Bolt, 6-32 x 3/8 Phil Flat SS	4 ea	
10028	Shaft, Plunger-Detent	1 ea	
10029	Handle, "T" Detent	1 ea	
10030	Spring, Detent-SS	1 ea	
10111	Strain Relief-Power Cord	1 ea	
10112	Nut, Strain-Relief Power Cord	1 ea	
10113	Circuit Breaker, 120V	1 ea	
10115	Nut, Strain-Relief Cable 8	1 ea	
10118	Control Panel-120V	1 ea	
10118-D	Decal, Control Panel	1 ea	
10123	Washer, Lock-3/4	1 ea	
10130	Decal, Handle Adjustment	1 ea	
10148	Terminal, Connector-Flag	1 ea	
10149	Nut, Crimp	3 ea	
10158	Wire Ties-6	4 ea	
10164	Washer, Flat #8 SS	2 ea	
10165	Bolt, 10-24 x 5/8 Hex SS	4 ea	
10166	Nut, 10-24 Nylock SS	2 ea	
10174	Washer, Lock #10 SS	3 ea	
10175	Washer Lock #8	2 ea	
10180	Washer .390 x .625 x .031 SS	1 ea	
10192	Crimp, Strain Relief, Power Cord	1 ea	
10193	Nut, 10-32 Ground-Green	1 ea	
10228	Wire, Black 5" Flag Connector-Hour Meter	2 ea	
	10148 Terminal, Connector-Flag	1 ea	
10308	Rocker Switch Assembly	2 ea	
	NFS Switch, Rocker-Single 120V	1 ea	
	10114 Cap, Rocker Switch Single	1 ea	
10319	Bracket, Cord Wrap-Upper w/ Protector	1 ea	
10322	Bracket, Cord Wrap-Lower w/ Protector	1 ea	
NFS	Wire, Black 8" FML Connector-H.T.Switch to Crimp Nut	1 ea	
	10119 Terminal, Spade Female-18 Gauge	1 ea	
NFS	Wire, Brown 8" FML Connector-H.T. Switch to Crimp Nut	1 ea	
	10119 Terminal, Spade Female-18 Gauge	1 ea	
NFS	Wire, Black 8" Flag Connector-S. Switch to Crimp Nut	1 ea	
	10148 Terminal, Connector-Flag	1 ea	
10423	Hour Meter, Unwired	1 ea	
18205	Cord, Power Assembly Handle	1 ea	
	10109 Plug, Power Cord	1 ea	
	10131 Terminal, Ring #10	1 ea	
	10171 Decal, Warning-Power Cord	1 ea	

Handle Assembly C4 /C4-A				
Part #	Description		Qty	Notes
18034	Switch, Trigger Asm Kit		1 ea	
	10248	Nut, 2-56 Nylock SS	2 ea	
	10263	Bolt, 2-56 Shoulder SS	2 ea	
	10279	O-Ring, Switch Trigger	2 ea	
	10267	Connector, Five Port	1 ea	
	10277	Connector, Three Port	1 ea	
	18035	Switch, Pump ASM	1 ea	
	18036	Switch, Brush ASM	1 ea	
18206	Cable (8 Wire) Assembly Handle to Motors		1 ea	
	10104	Terminal, Spade Male	1 ea	
	10106	Terminal, Bullet Male, Ground	1 ea	
	10119	Terminal, Spade Female-18 Gauge	5 ea	
	10121	Strain Relief, Cable-Wire 8	1 ea	
	10131	Terminal, Ring #10	1 ea	
	10148	Terminal, Connector-Flag	1 ea	
	10158	Wire, Tie-6"	3 ea	
	17097	Tag, Wire B/8-Wire	1 ea	
	17098	Tag, Wire V/8-Wire	1 ea	
	17099	Tag, Wire P/8-Wire	1 ea	
	10409	Diode Assembly	1 ea	
		10119	Terminal, Spade Female-18 Gauge	2 ea
		NFS	Diode	1 ea
		NFS	Parallel, Splice-Uninsulated	2 ea
		NFS	Wire, Black, 1 1/2-Diode	2 ea
		NFS	Heat Shrink, 2	1 ea
16003	Kit, Diode		1 ea	
	10409	Diode Assembly	1 ea	
	10104	Terminal, Spade Male	1 ea	

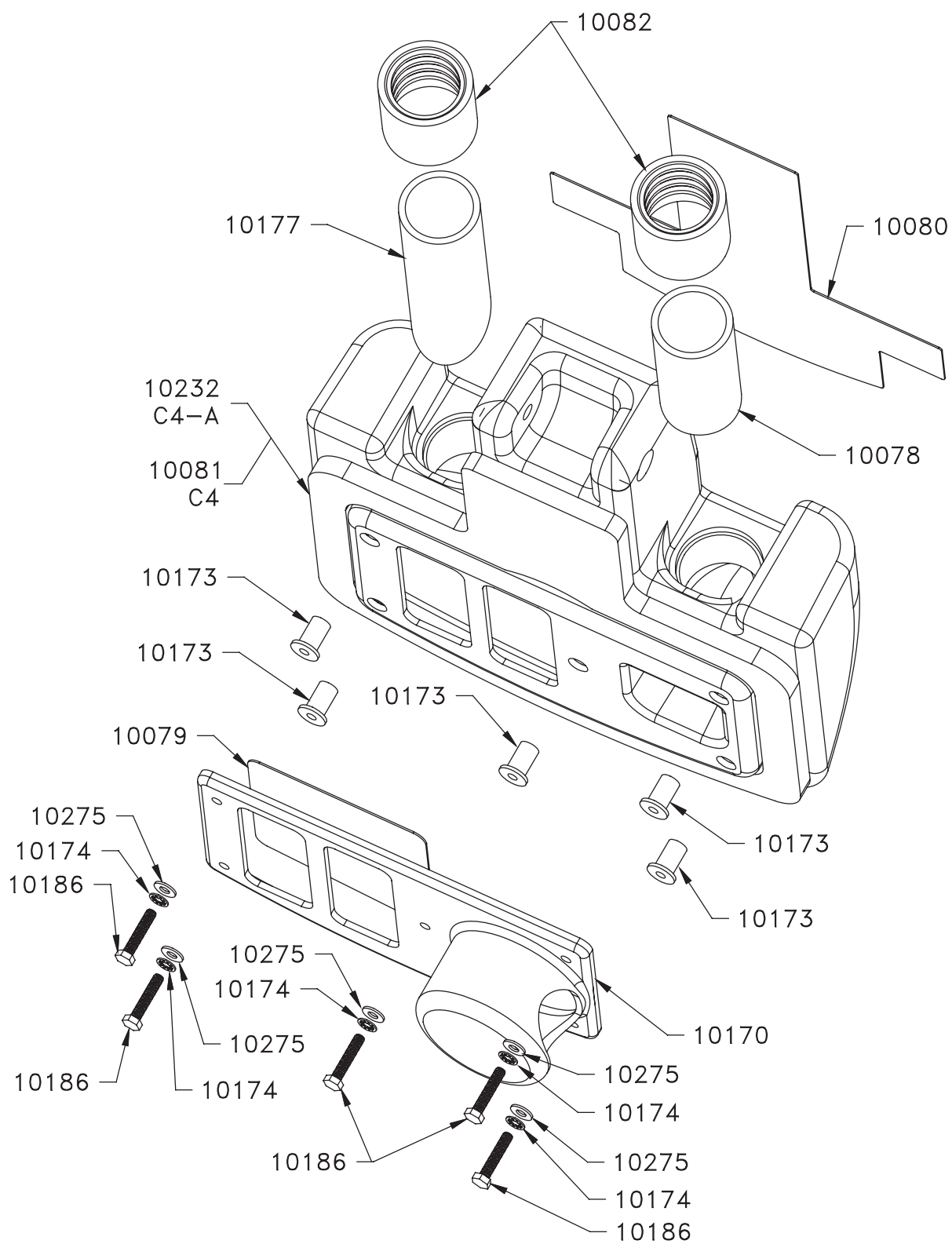


REV. 1-30-02

Bucket Assembly C4 / C4-A

Part #	Description	Qty	Notes
10039	Bolt, 1/4-20 x 3/4 Phil SS	2 ea	
10061	Washer, Flat 1/4 SS	2 ea	
10086	Handle, Bucket Bail	1 ea	
10087	Bushing, Flanged-Bucket	2 ea	
10176	Washer, Lock 1/4	2 ea	
10085	Bucket C4	1 ea	
10604	Bucket C4-A		

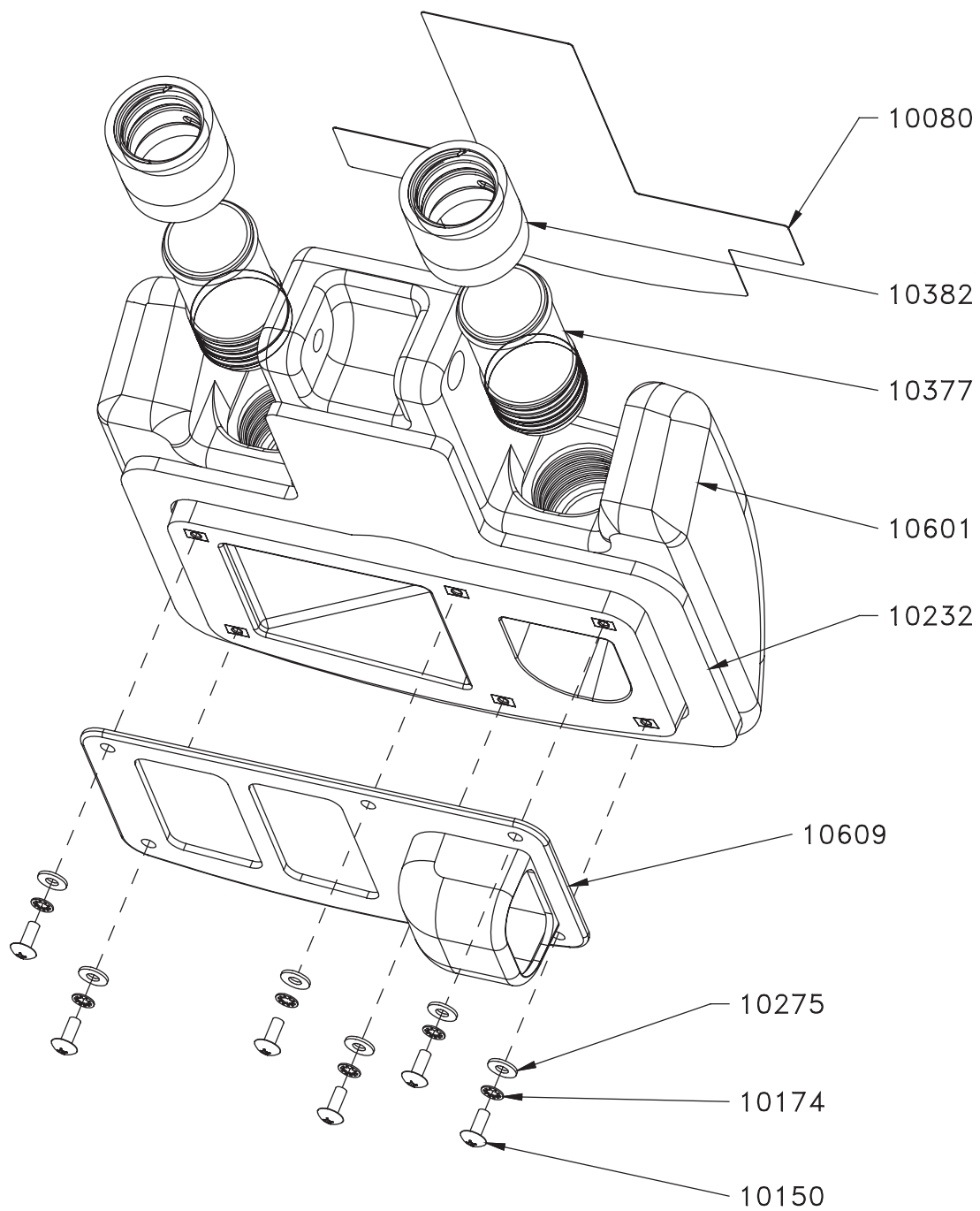
NOTE: Specify Color



REV 1-30-02

Lid Assembly C4

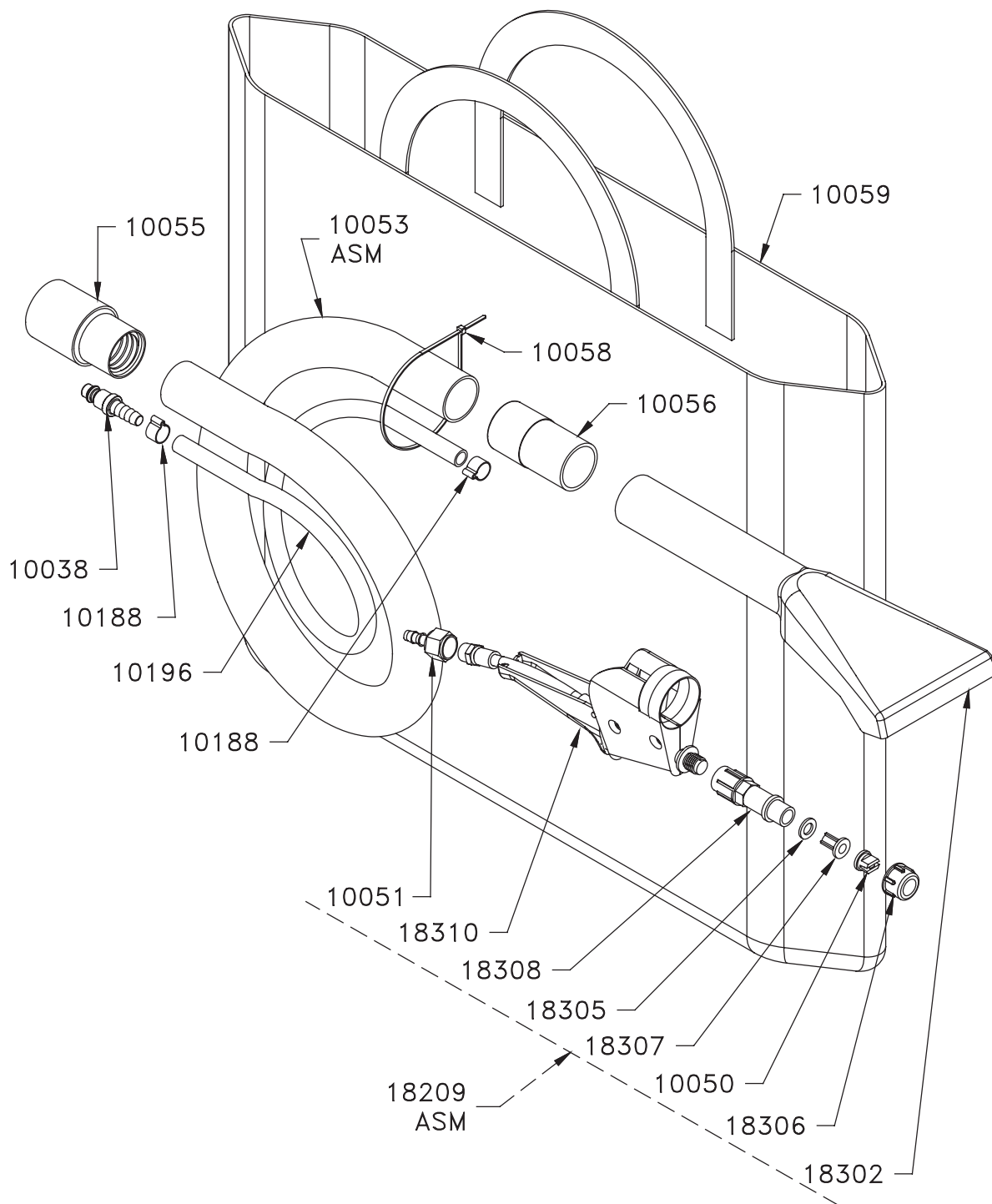
Part #	Description		Qty	Notes
7LID	Lid Assembly		1 ea	
	NFS	Lid, Gray	1 ea	
	10061	Washer, Flat 1/4	5 ea	
	10078	Tube, Sight 3 3/8	1 ea	
	10079	Filter, Screen-Lid	1 ea	
	10080	Decal, Instruction- Lid	1 ea	
	10170	Lid, Plate	1 ea	
	10173	Nut, Well 10-32	5 ea	
	10174	Washer, Lock #10 SS	5 ea	
	10177	Tube, Sight 45 D 5	1 ea	
	10186	Bolt, 10-32 x 1 Hex SS	5 ea	
	10275	Washer, Flat #10 SS	5 ea	
10081	Gasket Lid/Duct 3/8 C4		1 ea	
10082	Cuff, Hose-Lid		2 ea	



REV 7-06-05

Lid Assembly C4-A

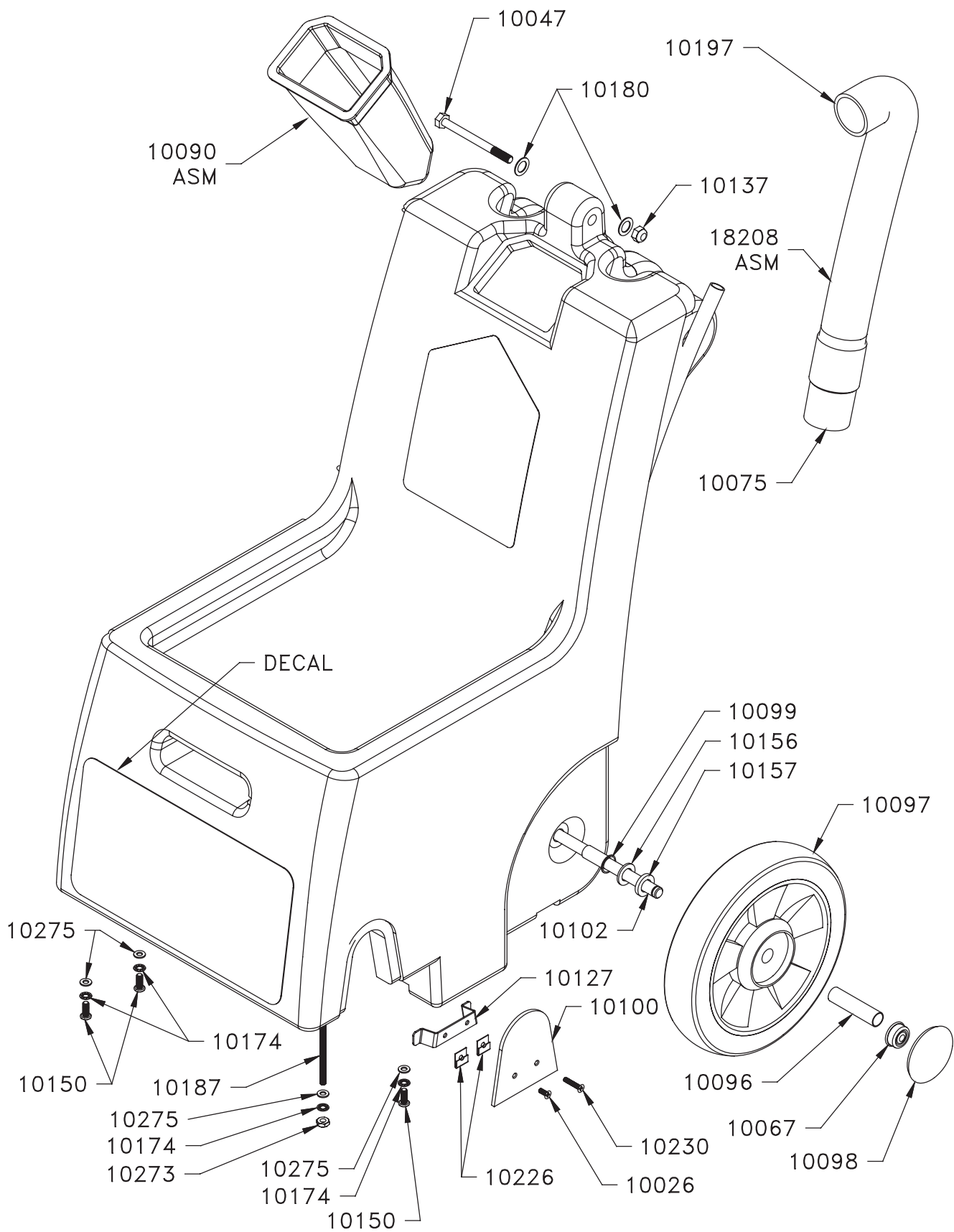
Part #	Description	Qty	Notes
7LIDA	Lid Assembly	1 ea	
	10601 Lid, Gray (NFS)	1 ea	
	10377 Tube, Sight	2 ea	
	10080 Decal, Instruction- Lid	1 ea	
	10382 Cuff, Hose-Lid	2 ea	
	10609 Lid, Plate w/Filter Screen	1 ea	
	10174 Washer, Lock #10 SS	6 ea	
	10150 Bolt, 10-24 x 1/2 Phil SS	6 ea	
	10275 Washer, Flat #10 SS	6 ea	
	10232 Gasket Lid/Duct 1/4 C4-A	1 ea	



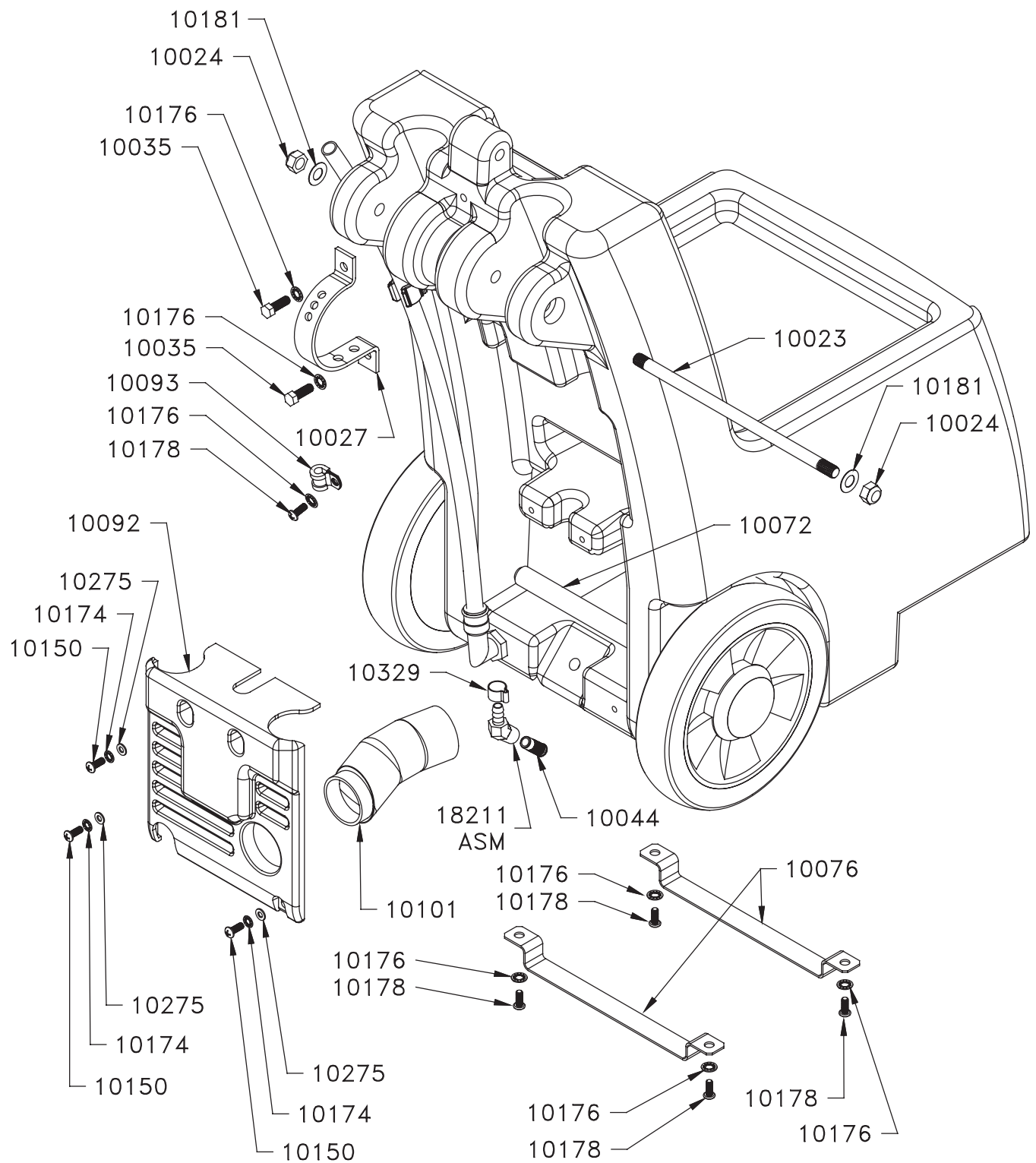
REV. 1-30-02

Hand Tool Kit C4 / C4-A

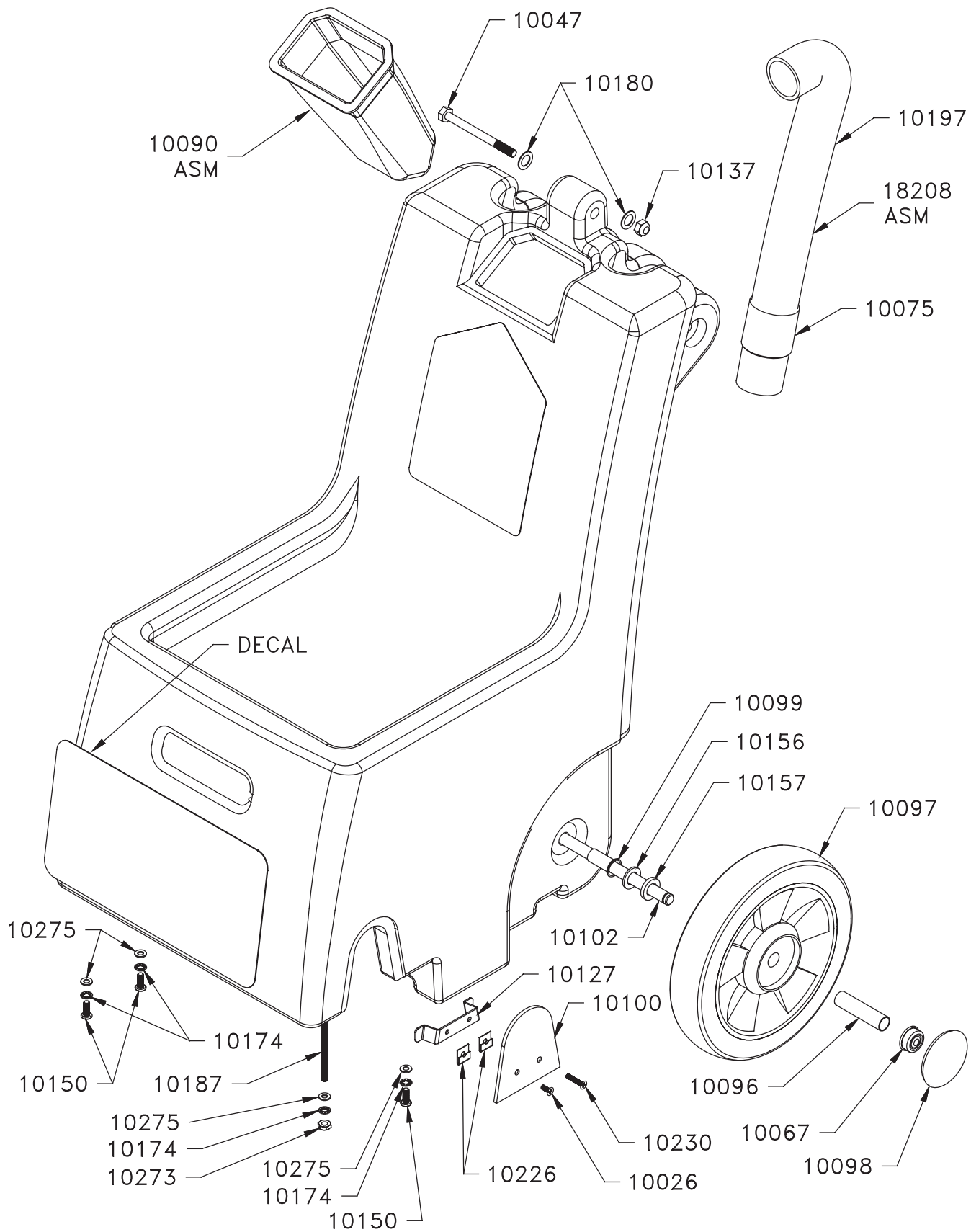
Part #	Description	Qty	Notes
8HTK	Hand Tool Kit	1 ea	
	10038 Brass, Plug 1/4 Barb	1 ea	
	10053 Hose, Vac-H.T. 1" x 10' With Cuffs	1 ea	
	10055 Cuff, Hose-Enlarger 1 to 1 1/4	1 ea	
	10056 Cuff, Hose-Straight 1	1 ea	
	10058 Wire, Tie-11	4 ea	
	10059 Bag, H.T. - Gray With Print	1 ea	
	10188 Clamp, 1/4 Sol. Hose SS	2 ea	
	10196 Hose, Sol. Hand Tool 1/4 I.D. x 126	1 ea	
	18209 Hand Tool Assembled	1 ea	
	10050 Spray Tip, 11002-Hand Tool	1 ea	
	10051 Barb, 1/4 x FNPT-1/4 Nylon	1 ea	
	18302 H.T. Plastic Body	1 ea	
	18305 H.T. Washer, Spray Tip	1 ea	
	18306 H.T. Ring, Spray Tip	1 ea	
	18307 H.T.Filter, Spray Tip	1 ea	
	18308 H.T. Tube Ext.	1 ea	
	18310 H.T. Valve Assembly	1 ea	



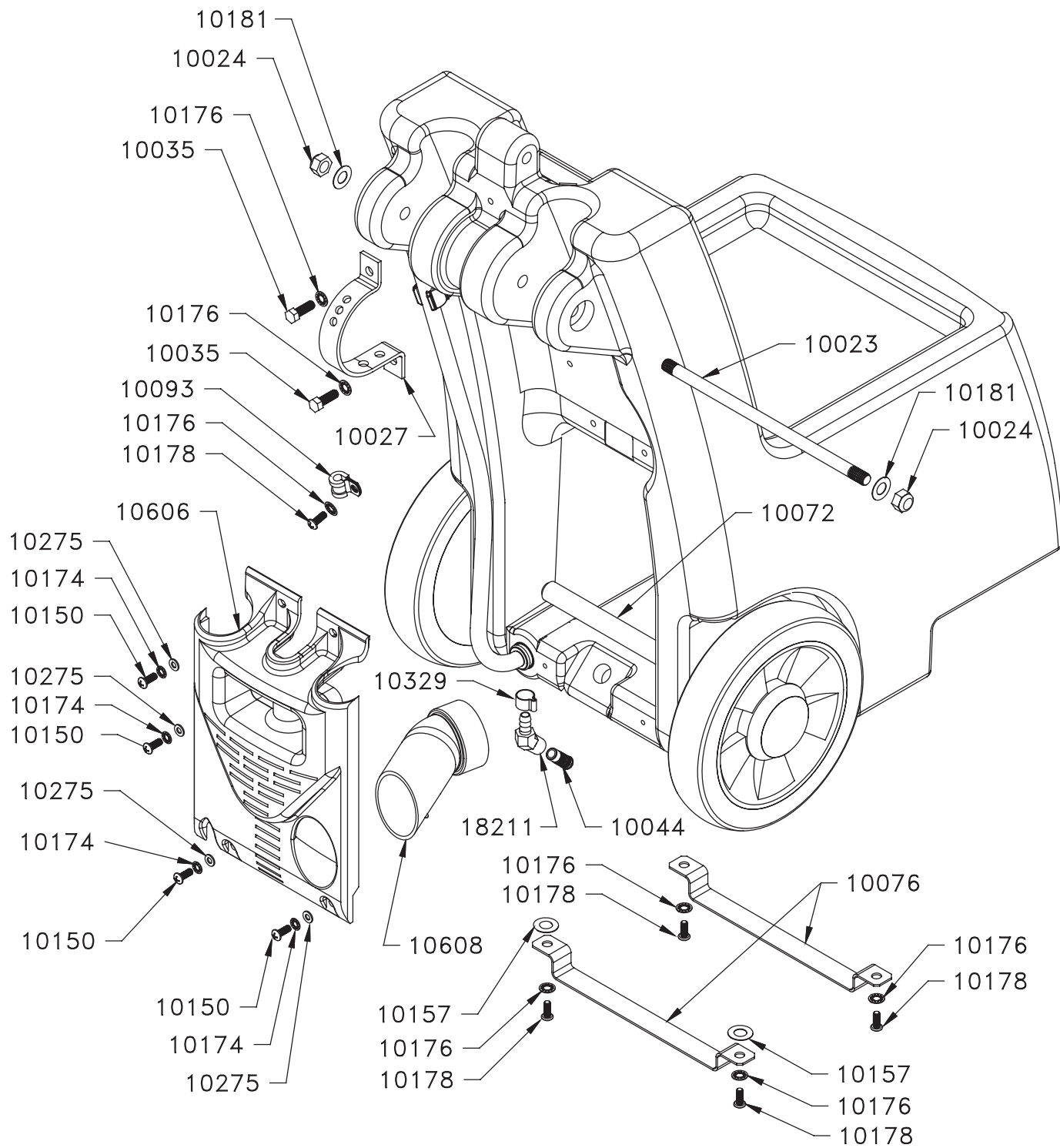
REV. 1-30-02



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REV. 7-06-05

Final Assembly C4

Part #	Description	Qty	Notes
10023	Stud, Handle Mount-3/8 Alum	1 ea	
10024	Nut, 3/8 Nylock-SS	2 ea	
10026	Bolt, 6-32x3/8 Phil Flat SS	1 ea	
10027	Bracket, Detent-Handle Adjust	1 ea	
10035	Bolt, 1/4-20x3/4 Hex SS	2 ea	
10044	Filter, S Tank to Pump	1 ea	
10047	Bolt, 1/4-20x3" Hex SS	1 ea	
10067	Cap, Shaft-Axle	2 ea	
10072	Tube, Shaft, Wheel-6 1/2"	1 ea	
10076	Strap, Duct	2 ea	
10090	Filter Bag, Sol. Tank-Assembly	1 ea	
10092	Door, Gray	1 ea	
10093	Clamp, Loop Cushioned-3/8	1 ea	
10096	Spacer, Wheel	2 ea	
10097	Wheel, 7"	2 ea	
10098	Hub Cap, Wheel-Black	2 ea	
10099	Brass Eyelet	2 ea	
10100	Cover, Belt-Gray	1 ea	
10101	Tube, Exhaust	1 ea	
10102	Shaft, Wheel SS	1 ea	
10127	Bracket, Cover Belt	1 ea	
10137	Nut 1/4-20 Nylock SS	1 ea	
10150	Bolt, 10-24x1/2 Phil SS	6 ea	
10156	Spacer, Nylon-Wheel (Thin)	2 ea	
10157	Spacer, Nylon-Wheel (Thick)	4 ea	
10174	Washer, Lock #10 SS	7 ea	
10176	Washer, Lock 1/4 SS	7 ea	
10178	Bolt, 1/4-20x5/8 Phil SS	5 ea	
10180	Washer, .390x.625x.031 SS	2 ea	
10181	Washer, .390x.750x.020 SS	2 ea	
10187	Stud, Threaded 10-24x2 7/8" SS	1 ea	
10226	Clip, Tinnerman-Painted Steel	2 ea	
10230	Bolt, 6-32x3/4 Phil Flat SS	1 ea	
10273	Nut, 10-24 Hex SS	1 ea	
10275	Washer, Flat #10 SS	7 ea	
10329	Clamp, 5/16" Sol. Hose-Zinc	1 ea	
18208	Hose Vac-Lid to Disconnect with Cuff	1 ea	
	#10075 Cuff, Hose-Male Gray	1 ea	
	#10197 Hose, Vac-Lid to Disconnect Length 13"	1 ea	
18211	Brass, Elbow-45D	1 ea	

Final Assembly C4-A

Part #	Description	Qty	Notes
10023	Stud, Handle Mount-3/8 Alum	1 ea	
10024	Nut, 3/8 16-Nylock	2 ea	
10026	Bolt, 6-32 x 3/8 Phil Flat SS	1 ea	
10027	Bracket, Detent-Handle Adjust	1 ea	
10035	Bolt, 1/4-20 x 3/4 Hex SS	2 ea	
10044	Filter, S Tank to Pump	1 ea	
10047	Bolt, 1/4-20 x 3 Hex SS	1 ea	
10067	Cap, Shaft-Axle	2 ea	
10072	Tube, Shaft, Wheel-1/2 I.D. x 6	1 ea	
10076	Strap, Duct	2 ea	
10090	Filter Bag, Sol. Tank-Assembly	1 ea	
10093	Clamp, Loop Cushioned-3/8	1 ea	
10096	Spacer, Wheel	2 ea	
10097	Wheel, 7"	2 ea	
10098	Hub Cap, Wheel-Black	2 ea	
10099	Brass Eyelet	2 ea	
10100	Cover, Belt-Gray	1 ea	
10102	Shaft, Wheel SS	1 ea	
10127	Bracket, Cover Belt	1 ea	
10137	Nut 1/4-20 Nylock SS	1 ea	
10150	Bolt, 10-24 x 1/2 Phil SS	7 ea	
10156	Spacer, Nylon-Wheel (Thin)	1 ea	
10157	Spacer, Nylon-Wheel (Thick)	3 ea	
10174	Washer, Lock #10 SS	8 ea	
10176	Washer, Lock 1/4 SS	7 ea	
10178	Bolt, 1/4-20 x 5/8 Phil SS	5 ea	
10180	Washer, .39 x .625 x .031 SS	2 ea	
10181	Washer, .39 x .75 x .02 SS	2 ea	
10187	Stud, Threaded 10-24 x 2 7/8 SS	1 ea	
10226	Clip, Tinnerman-Painted Steel	2 ea	
10230	Bolt, 6-32 x 3/4 Phil Flat SS	1 ea	
10273	Nut, 10-24 Hex SS	1 ea	
10275	Washer, Flat #10 SS	8 ea	
10329	Clamp, 5/16" Sol. Hose-Zinc	1 ea	
10606	Door, Gray C4-A	1 ea	
10608	Tube, Exhaust, Black C4-A	1 ea	
18208	Hose Vac-Lid to Disconnect with Cuff	1 ea	
	#10075 Cuff, Hose-Male Gray	1 ea	
	#10197 Hose, Vac-Lid to Disconnect Length 13 1/2	1 ea	
18211	Brass, Elbow-45D	1 ea	

**KENT INVESTMENT CORPORATION
MAINTENANCE & REPAIR MANUAL TEST**

1. Vacuum motor is running with little or no sealed vacuum to floor nozzle:
☐ a. replace the vacuum motor terminals
☐ b. replace the vacuum motor
☐ c. check if front and rear nozzle clips are damaged or missing
2. Power is intermittent to all or some of the motors:
☐ a. replace some or all motors
☐ b. replace burned or corroded terminals
☐ c. look for loose terminals or wire nut
☐ d. both b and c
3. Vacuum motor is making excessive noise:
☐ a. replace vacuum motor because of worn bearings and or fan blades
☐ b. clean the lid vacuum filter screen
☐ c. replace the lid and duct gaskets
4. Brush motor runs continuously:
☐ a. replace the brush motor
☐ b. reset the brush circuit breaker
☐ c. replace the trigger switch
5. Electrical short:
☐ a. replace any wires or connectors that are damaged or have worn insulation
☐ b. reconnect or replace any loose wire connections
☐ c. replace rocker and trigger switches
☐ d. both a and b
6. When the trigger switch is activated the pump works, but the brush does not, and the brush will turn freely by hand:
☐ a. reset the brush circuit breaker
☐ b. check if the belt is broken
☐ c. replace the trigger switch
☐ d. all of the above
7. Brush will not turn when the trigger switch is activated and will not turn by hand:
☐ a. replace the belt
☐ b. clean debris from bearing assembly and or replace bearings
☐ c. replace the trigger switch
8. Pump is running quietly or weak, with no or very little pressure to spray tips:
☐ a. replace the pump
☐ b. replace the diode
☐ c. replace the trigger switch
☐ d. both a and c
9. When electrical components need replacing:
☐ a. use available parts from the home depot
☐ b. use parts ordered from Kent Investment Corp. for model C4 carpet cleaner
☐ c. use any available UL or CSA listed parts
10. Pump runs continuously and the hand tool switch is in the OFF position:
☐ a. replace the hand tool switch
☐ b. replace the trigger switch
☐ c. replace the pump

Name: _____
Address: _____

Store Number: _____
Fax #: _____
Date: _____

Fax To: Kent Investment Corp. (870) 994-3545

