

ProForce® 1500/1500XP Service Manual



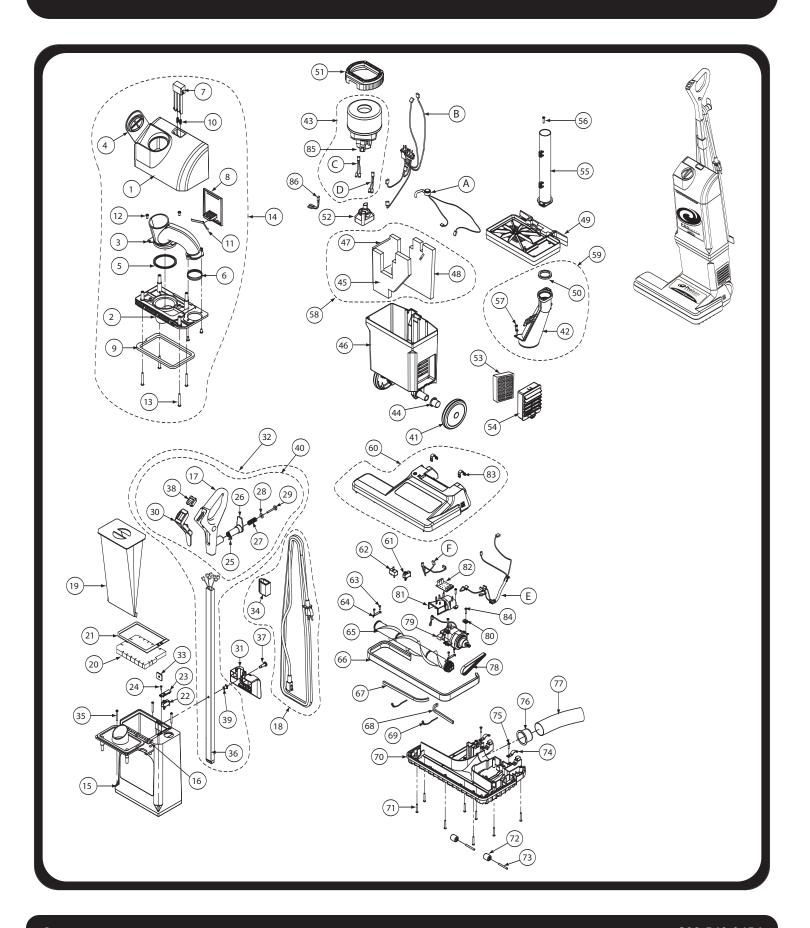
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ATTENTION

Before servicing any part or proceeding with any repair procedure on any ProTeam vacuum, ALWAYS disconnect the vacuum from power source.

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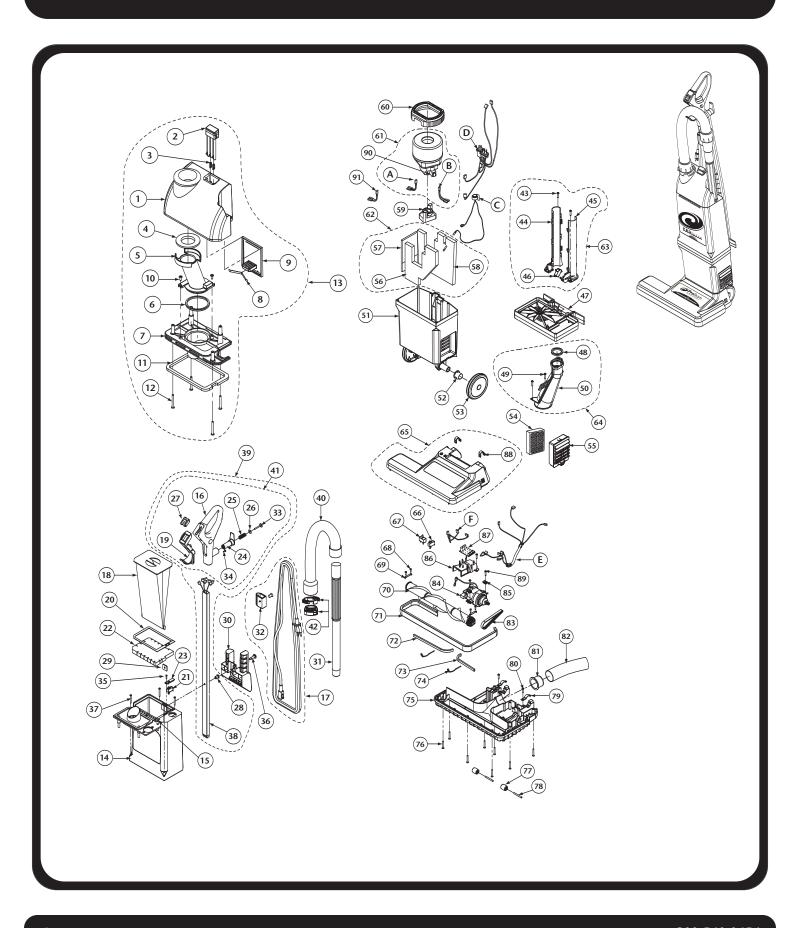
Full Vacuum Parts – 1500



Full Vacuum Index – 1500

	No.	Part Name		No.	Part Name
1	104569	Cover, Bag Housing, Grey	41	104306	Wheel, Rear
2	104570	, 3	42	104250	Air Duct Assembly
3	104571	Duct, Crossover, Bag Cover	43	104957	Motor Assembly Kit w/Jumpers (includes: C, D)
4	104574	Plug, Access Port	44	104504	Bearing, Pivot
5	104575	Seal, Crossover Duct/Bag Cover Nozzle Plate, Lower	45	103532	Foam, Sound, Motor Housing Front Panel
6	104576	Seal, Crossover Duct, Inlet	46	104536	Motor Housing, Charcoal
7	104232	Latch, Release, Bag Cover	47	103533	Foam, Sound, Motor Housing Left Panel
8	104243	Flex Plate, Bag Cover Latch	48	103531	Foam, Sound, Motor Housing Rear Panel
9	104241	Seal, Gasket, Bag Cover	49	104245	Bulkhead, Dark Grey
10	104233	Spring, Release Button, F/Bag Cover Latch	50	104253	Seal, Lower Air Duct, Nitrile
11	104242	Spring, Bag Cover Latch	51	104249	Motor Mount, Upper Nitrile
12	104577	Screw, Phillips, 4.2mm x 9.5mm	52	104247	Motor Mount, Lower Nitrile
13	104493	Screw, Phillips, 4.2mm x 35mm	53	105136	Filter, Exhaust, HEPA Media
14	105491	Filter Cover Kit, w/Riveted Hinge and 6 Rivets	54	104246	Cover, Filter Cartridge, Charcoal
15	104720	(includes: #1-13)	55 56	104578	Air Duct, Upper ProForce 1500
15	104739	Bag Housing Assembly, Grey, w/Riveted Hinge and	56	104209	Screw, Phillips, 4.2mm x 12mm, F/Upper Air Duct
16	104491	Decal Includes Bag Cover Nozzle Plate Rivet F/Bag Housing Assembly	57 58	104267 105488	Screw, Phillips, 4.2mm x 19mm, F/Lower Air Duct Motor Housing Sound Filter Kit (includes: #5,7,8)
17	104451	Handle w/Over Mold and Decal	59	105489	Air Duct Kit (includes: #2, 10, 17)
18	104284	Cord, Power Clasp, 50' Yellow (Includes: #34)	60	104494	Power Nozzle Cover w/Detent Springs & Decal
19	103483	Intercept Micro Filter	61	104279	Switch, Safety, Power Nozzle Lockout
20	104281	Filter, Double Layer Motor Intake	62	104212	Circuit Breaker
21	104738	Seal, Gasket, Bag Housing	63	104496	Screw, Phillips, 2.9mm x 13mm, F/Brush Retainer
22	104283	Switch, Filter, Lock-Out	64	104499	Retainer, Brush Roll
23	104282	Cover, Switch, Filter Lock-out	65	104216	Brush Roll, Power Nozzle, 14"
24	105075	Screw, Phillips, 2.9mm x 13mm, F/Switch Cover	66	104218	Bumper, Power Nozzle, Vinyl
25	104509	Screw, Phillips, F/Handle Assembly	67	104736	Seal, Base Cover, Air Duct, Left, 7.5" Long
		M4 x 10mm x .07 Pitch	68	104737	Seal, Base Cover, Air Duct, Right, 5.5" Long
26	104268	Bracket, Cord Wrap	69	104500	Brace, Formed Wire, F/Power Nozzle Base
27	104269	Spring, Compression, Cord Wrap Bracket	70	104221	Baseplate, Power Nozzle
28	104270	Washer, Compression Spring, Cord Wrap Bracket	71	104497	Screw, Phillips, 4.2mm x 35mm, F/Base Cover
29	104271	Screw, Cord Wrap, 4mm x 38mm Phillips Round Head	72	104501	Roller, Front
30	105090	Handle Bezel w/Screws	73	104502	Shaft, Front Roller Axle
31	104741	Handle, Carry	74	104503	Clamp, Rear Wheel
32	105114	Handle, Tube Assembly Complete	75	104495	Screw, Phillips, 4.2mm x 19mm, F/Powerhead
		(includes: #17, 25, 26, 27, 28, 29, 30, 36, 38, 39)	76	104227	Sleeve, Hose, Air Duct
33	104259	Plate, Handle Nut	77	104230	Hose, Power Nozzle to Air Duct, Lower
34	105091	Clasp, Strain Relief, Yellow	78	104217	Belt, Drive, F/Brush Roll
35		Screw, Phillips, 4.2mm x 35mm	79	104506	•
36	104958	Handle, Tube, w/Wire Harness, Rivet Nut and Plug Rivet	80	104498	Grommet, Vibration, Power Nozzle Motor, Nitrile
37	104266	Screw, Handle Assembly	81	104224	Cover, Air Duct, Power Nozzle
38	105147	Switch, Rocker, On/Off	82	104226	Board, Vacuum Operation Indicator
39	104264	Bushing, Handle Tube	83	104507	Spring, Detent, Upright Lock
40	105501	Handle Kit (includes: #17, 25, 26, 27, 28, 29, 30, 38)	84	105371	Screw, Phillips, 4.2mm x 19mm, F/Power Nozzle Motor
			85	105281	Carbon Brush Set for ProForce Motor
			86	105760 105755	Thermal Protector
				103/33	Wire Harness Kit includes:
					A. Sensor, Bag, Full Indicator
					B. Harness, Wire, Main Power Supply C. Harness, Jumper, White
					D. Harness, Jumper, Red
					E. Harness, Wire, Power Nozzle
					F. Harness, Power Nozzle Switch

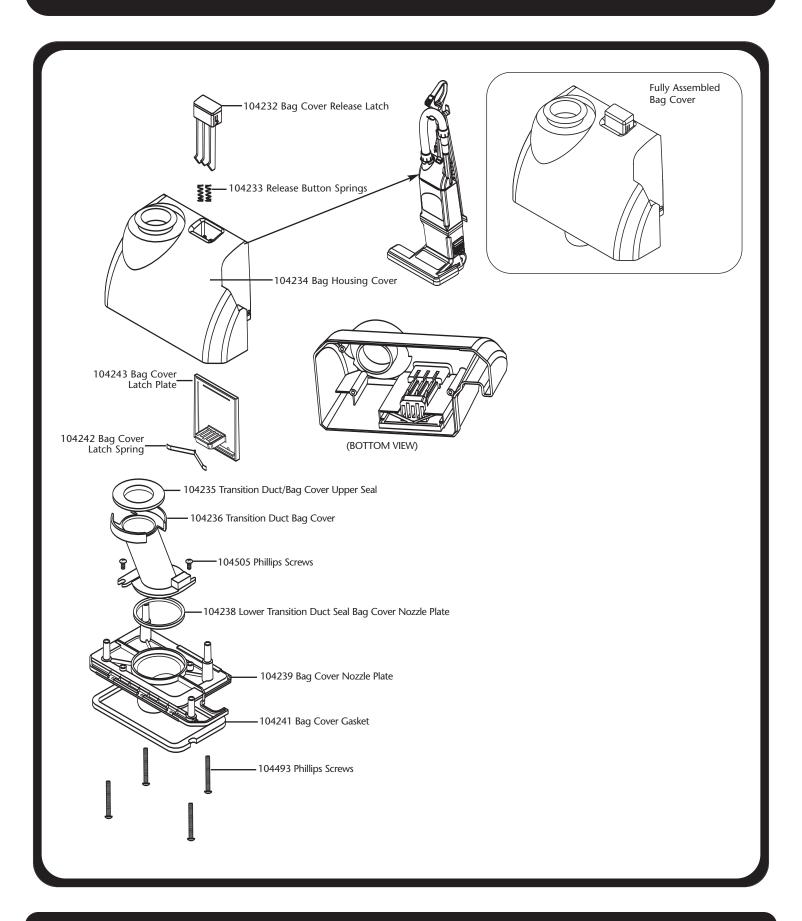
Full Vacuum Parts – 1500XP



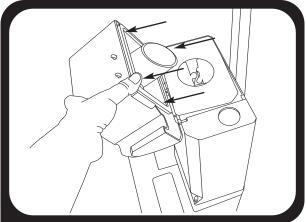
Full Vacuum Index – 1500XP

	No.	Part Name		No.	Part Name
1	104234	Cover, Bag Housing, Grey F/XP	43	104209	Screw, Phillips, 4.2mm x 12mm, F/Wand Guide Guide, Wand, Upper Left
2	104232	Latch, Release, Bag Cover	44 45	104261 104260	Guide, Wand, Opper Left Guide, Wand, Upper Right
3	104233	Spring, Release Button, F/Bag Cover Latch	46	104263	Switch, Wand Lockout
4	104235	Seal, Transition Duct/Bag Cover, Upper	47	104245	Bulkhead, Dark Grey
5	104236	Duct, Transition, Bag Cover, F/XP	48	104253	Seal, Lower Air Duct, Nitrile
6	104238	Seal, Transition Duct/Bag Cover Nozzle Plate, Lower	49 50	104267 104250	Screw, Phillips, 4.2mm x 19mm, F/Lower Air Duct Air Duct Assembly
7	104239	Plate, Bag Cover Nozzle, F/XP	51	104236	Motor Housing, Charcoal
8	104242	Spring, Bag Cover Latch	52	104504	Bearing, Pivot
9	104243	Plate, Bag Cover Latch	53	104306	Wheel, Rear
10	104505	Screw, Phillips, 4.2mm x 9.5mm	54	105136	Filter, Exhaust, HEPA Media
11	104241	Gasket, Bag Cover	55 56	104246 103532	Cover, Filter Cartridge, Charcoal Foam, Sound, Motor Housing, Front Panel
12	104493	Screw, Phillips, 4.2mm x 35mm	57	103532	Foam, Sound, Motor Housing, Left Panel
13	105486	Filter Cover Kit w/Riveted Hinge and 6 Rivets	58	103531	Foam, Sound, Motor Housing, Rear Panel
13	103400	5	59	104247	Motor Mount, Lower Nitrile
1.4	104400	(includes: #1–12)	60 61	104249 104957	Motor Mount, Upper Nitrile Motor Assembly w/Jumpers (includes: A, B)
14	104490	Bag Housing Assembly, Grey w/Riveted Hinge & Decal	62	104937	Motor Housing Sound Filter (includes: #56, 57, 58)
		Includes Bag Cover Nozzle Plate	63	105490	Wand Kit (includes: #43, 44, 45, 46)
15	104491	Rivet F/Bag Housing Assembly	64	105489	Air Duct Kit (includes: #48, 49, 50)
16	104255	Handle w/Over Mold and Decal	65	104494	Power Nozzle Cover w/Detent Springs & Decal
17	104284	Cord, Power, w/Strain Relief, 50' Yellow	66 67	104279 104212	Switch, Safety, Power Nozzle Lockout Circuit Breaker
18	103483	Intercept Micro Filter	68	104496	Screw, Phillips, 2.9mm x 13mm, F/Brush Retainer
19	105088	Handle Bezel w/Screws	69	104499	Retainer, Brush Roll
20	104738	Seal, Gasket, Bag Housing	70	104216	Brush Roll, Power Nozzle, 14"
21	104283	Switch, Filter, Lock-Out	71 72	104218 104736	Bumper, Power Nozzle, Vinyl Seal, Base Cover, Air Duct, Left, 7.5" Long
22	104281	Filter, Double Layer Motor Intake	73	104737	Seal, Base Cover, Air Duct, Right, 5.5" Long
23	104282	Cover, Switch, Filter Lock-out	74	104500	Brace, Formed Wire, F/Power Nozzle Base
24	104268	Bracket, Cord Wrap	75	104221	Baseplate, Power Nozzle
25	104269	Spring, Compression, Cord Wrap Bracket	76 77	104497 104501	Screw, Phillips, 4.2mm x 32mm, F/Base Cover Roller, Front
26	104270	Washer, Compression Spring, Cord Wrap Bracket	78	104502	Shaft, Front Roller Axle
27	105147	Switch, Rocker, On/Off	79	104503	Clamp, Rear Wheel
28	104264	Bushing, Handle Tube	80	104495	Screw, Phillips, 4.2mm x 19mm, F/Powerhead
29	104259	Plate, Handle Nut	81 82	104227 104230	Sleeve, Hose, Air Duct Hose, Power Nozzle to Air Duct, Lower
30	104265	Handle, Carry w/Tool Caddy, F/XP	83	104217	Belt, Drive, F/Brush Roll
31	104294	Wand, F/XP	84	104506	Motor, Power Nozzle with Crimps
32	105091		85	104498	Grommet, Vibration, Power Nozzle Motor, Nitrile
33		Clasp, Strain Relief, Yellow W/Ratchet Fastener	86 87	104224 104226	Cover, Air Duct, Power Nozzle Board, Vacuum Operation Indicator
	104271	Screw, Cord Wrap, 4mm x 38mm, Phillips Round Head	88	104220	Spring, Detent, Upright Lock
34	104509	•	89	105371	Screw, Phillips, 4.2mm x 19mm,
		F/Handle Assembly			F/Power Nozzle Motor
35	105075	Screw, Phillips, 2.9mm x 13mm, F/Switch Cover	90	105281	Carbon Brush Set for ProForce Motor
36	104266	Screw, Handle Assembly	91	105760 105754	Thermal Protector Wire Harness Kit includes:
37	104493	Screw, Phillips, 4.2mm x 35mm		.03/34	A. Harness, Jumper, Red
38	104958	Handle, Tube w/Wire Harness, Rivet Nut and Plug Rivet			B. Harness, Jumper, White
39	104959	Handle, Tube Assembly Complete, F/XP			C. Sensor, Bag Full Indicator
		(includes: #16, 19, 24, 25, 26, 27, 28, 33, 34, 38)			D. Harness, Main Power Supply E. Harness, Wire, Power Nozzle
40	104961	Hose, Assembly w/Cuffs, F/XP (includes: #42)			F. Harness, Power Nozzle Switch
41	105502	Handle Kit (includes: #16, 19, 24, 25, 26, 27, 33, 34)			•
42	105573	Quick Release Hose Cuff			
	105572	Quick Detach Clip			

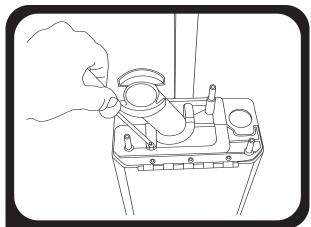
Bag Cover



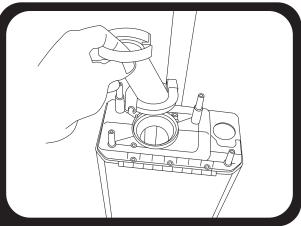
DISASSEMBLY



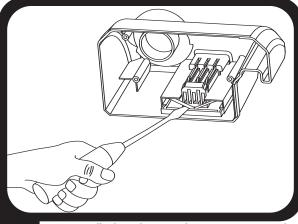
Tilt bag cover forward to open. Remove (4) phillips screws to release from bag cover nozzle plate.



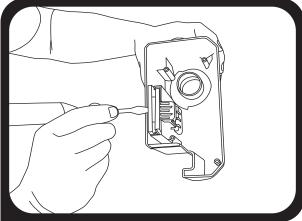
2. To release transition duct remove (2) phillips screws from bag cover nozzle plate.



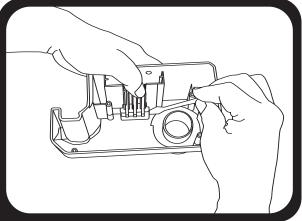
3. Lift transition duct bag cover and remove.



Using a flathead screwdriver pry upward on bag cover latch spring to release.



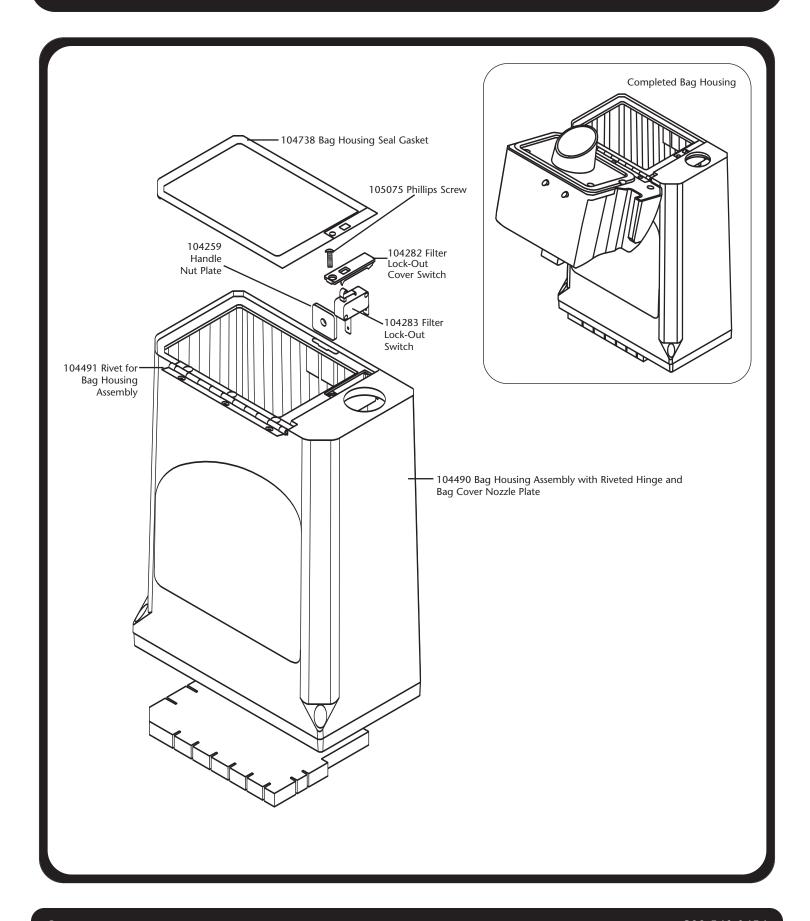
Insert flathead screwdriver beneath bag cover latch plate to release. Make sure rounded points clear holes in bag cover.



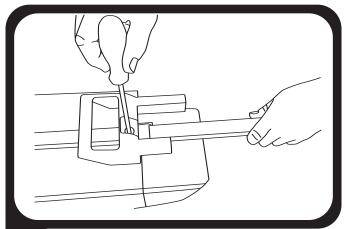
Using thumb to hold in place, insert flathead screwdriver into bag cover (near top) to release bag cover release latch.

To Reassemble. Repeat steps in reverse.

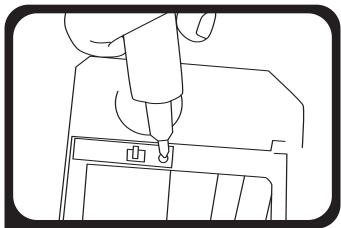
Bag Housing



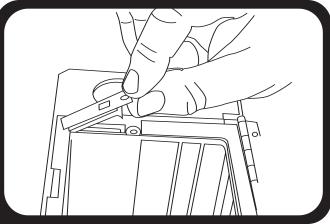
DISASSEMBLY



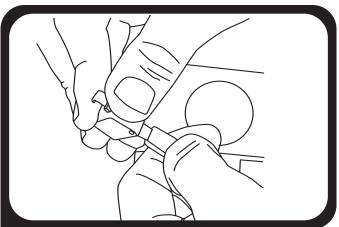
1. Remove screw on carry handle. Slide tube away from base. Unplug power cord.



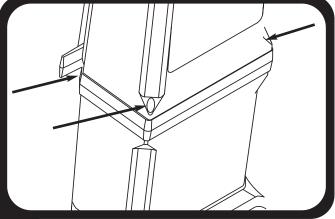
? Remove cover screw.



Remove switch cover and filter lockout switch. To remove the switch cover, insert a flathead screwdriver under switch lever and gently pry upward.



Remove crimps by pressing locking tab on locked connector.

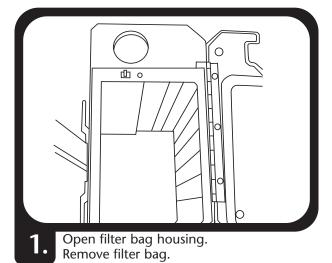


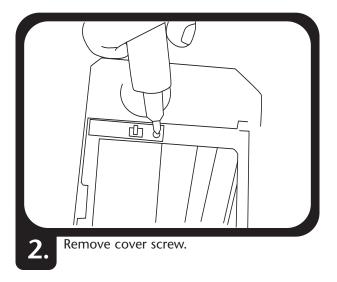
5. Remove 4 screws located near bottom of bag housing (2 front, 2 back). Remove bag housing.

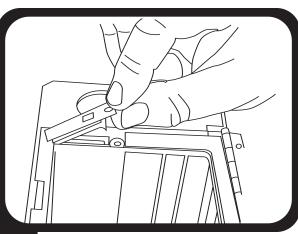
To Reassemble. Repeat steps in reverse.

Bag Housing

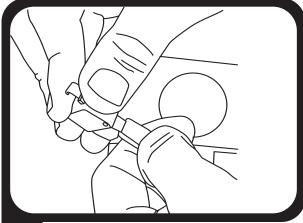
BAG LOCKOUT SWITCH REPLACEMENT





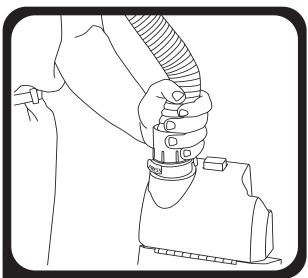


Remove switch cover and filter lockout switch. To remove the switch cover, insert a flathead screwdriver under switch lever and gently pry upward.



Remove crimps by pressing locking tab on locked connectors. Reverse steps to reassemble.

HOSE CAP COLLAR REPAIR – For ProForce 1500XP Only



To inspect the collar, attach the quick release cuff to the bag cover collar. Lift the vacuum by the hose cuff. The collar should support the weight of the vacuum. If not, the collar will fail and separate from the bag cover. The collar will need to be removed from the quick release cuff and re-glued into the bag cover. If this collar test fails, proceed to Step 2.



Quickly insert collar into bag cover evenly, pressing firmly for 20 seconds to assure an adequate bond.

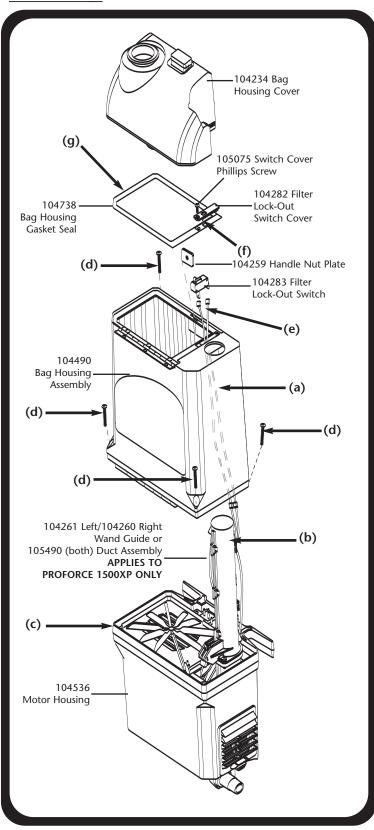


2. Clean cuff and housing with rubbing alcohol. Apply a continuous bead of "Super Glue" type adhesive around the entire perimeter of the detached collar. Care should be taken to avoid drips and runs.

IMPORTANT: you have only a few seconds to apply the bead of glue and seat the collar into the bag cover.

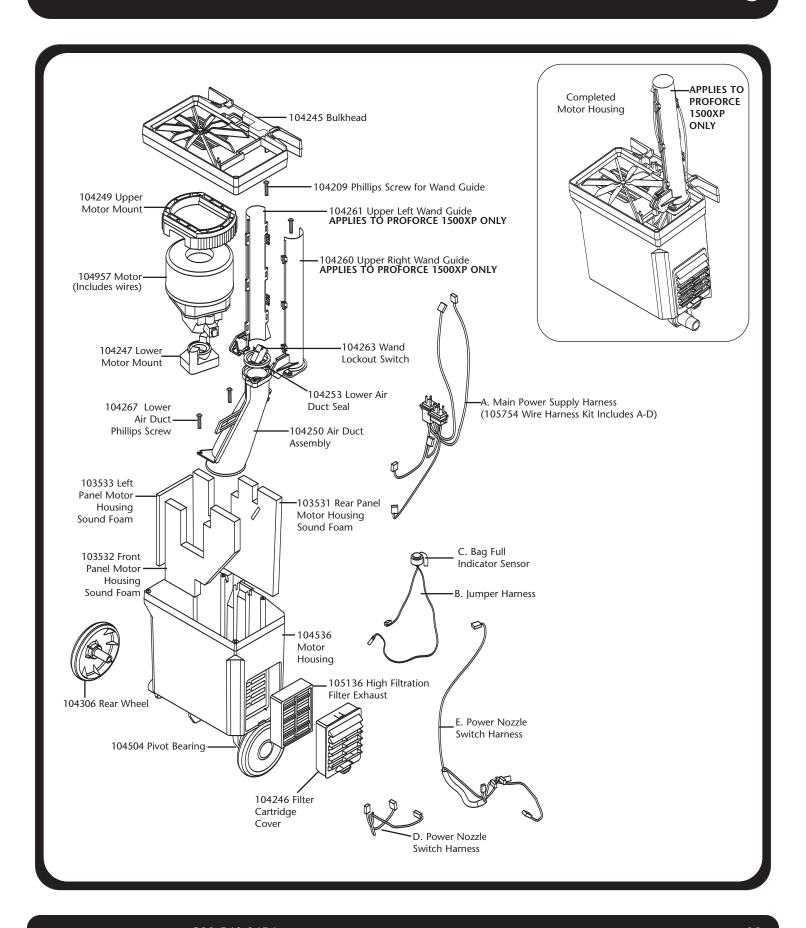
Bag Housing to Motor Housing

ASSEMBLY

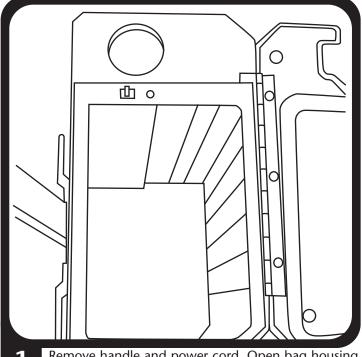


- (a) Feed bag switch wires through bag housing using wire guide (see page 18).
- (b) Align duct with opening in bag housing (APPLIES TO PROFORCE 1500XP ONLY).
- (c) Bag housing assembly should fit neatly onto bulkhead.
- (d) Insert bag housing screws and tighten.
- (e) Attach harness connectors to switch and place switch into position.
- (f) Fasten switch cover with screw.
- (g) If replacing the bag housing seal, do not let the seal cover the lockout switch cover opening.

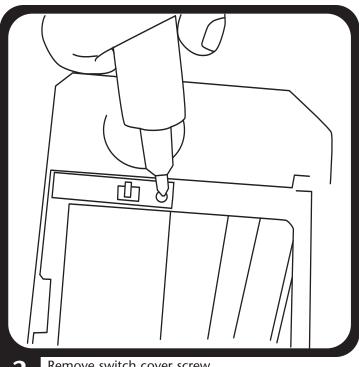
NOTE: Make sure the handle nut plate (#104259) is in place before you replace the bag housing gasket seal.



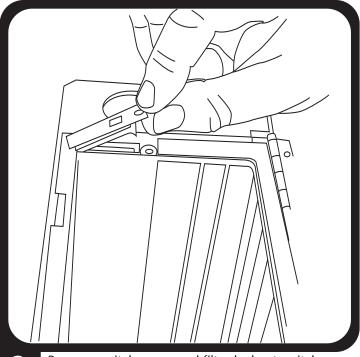
DISASSEMBLY



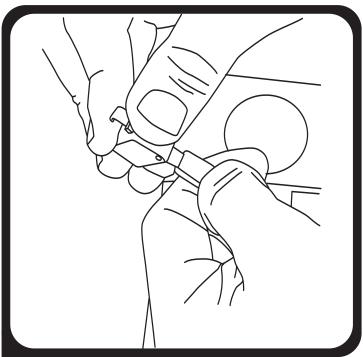
Remove handle and power cord. Open bag housing cover. Remove Intercept Micro™ Filter.



2. Remove switch cover screw.



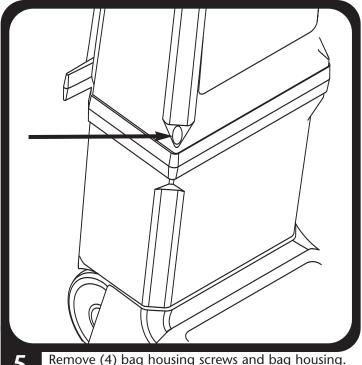
Remove switch cover and filter lockout switch. To remove the switch cover, insert a flathead screwdriver under switch lever and gently pry upward.



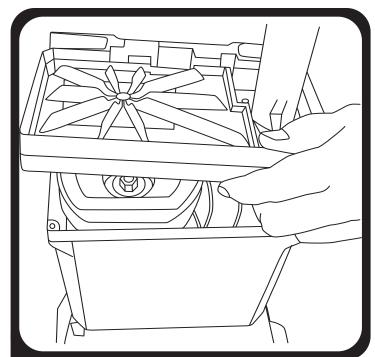
Remove crimps by pressing locking tab on connector.

(Continued on page 15)

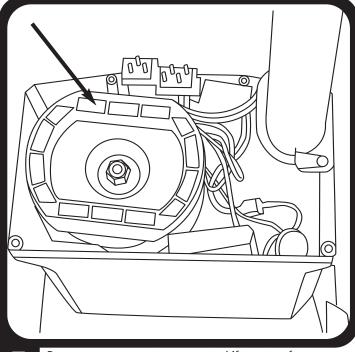
DISASSEMBLY (CONTINUED FROM PG 14)



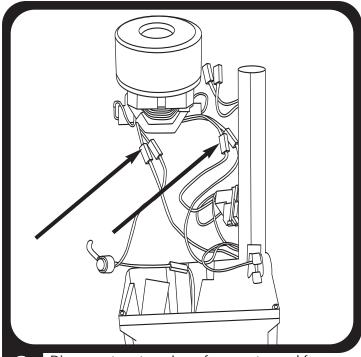
Remove (4) bag housing screws and bag housing.



Remove the bag full indicator tube (tube not pictured) from the bulkhead and lift off the bulkhead.



Remove upper motor mount. Lift motor from housing.

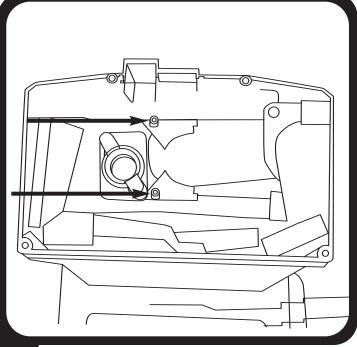


Disconnect motor crimps from motor and from lower air duct. Remove motor.

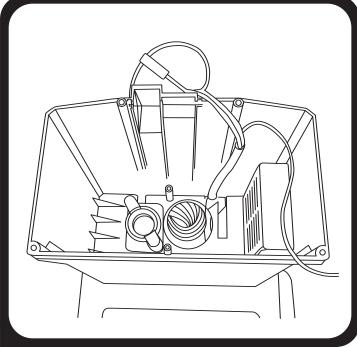
(Continued on page 16)

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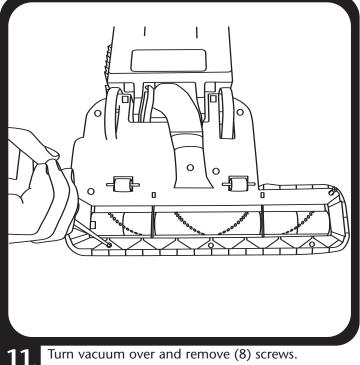
DISASSEMBLY (CONTINUED FROM PG 15)

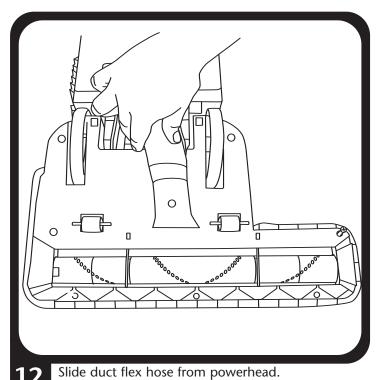


Remove (2) lower air duct screws from inside motor housing then remove the foam that covers wire harness.



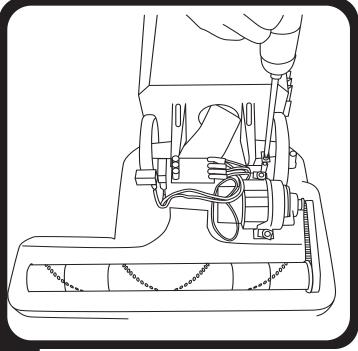
Housing should look like this after the foam and air duct are removed.



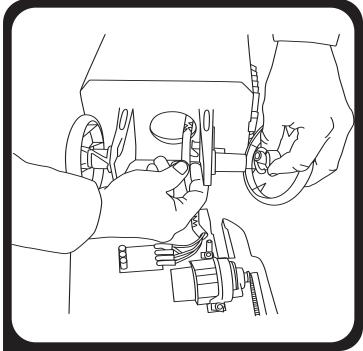


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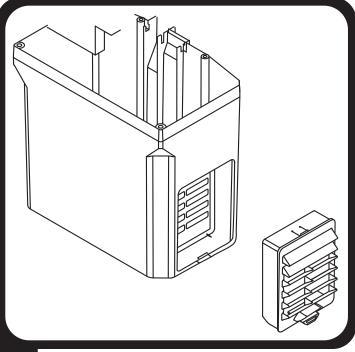
DISASSEMBLY (CONTINUED FROM PG 16)



Remove (2) wheel clamp screws on left and right wheels.



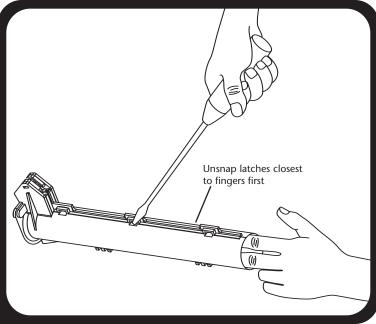
Remove wheels and pivot bearings.
Pull wire harness through body housing.



5. Remove exhaust filter.

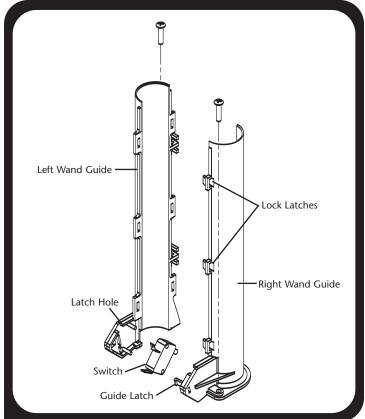
To Reassemble. Repeat steps in reverse.

WAND GUIDE - For ProForce 1500XP Only



Separate left wand guide from right wand guide by inserting two fingers between two guides. Use a flat tip screwdriver with opposite hand to unsnap lock latches and pry open wand guides using your two fingers.

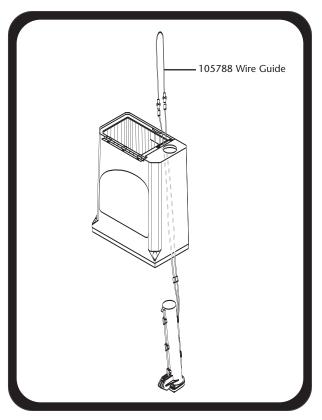
Note: Use care in prying open latches with screwdriver so as not to break tabs.



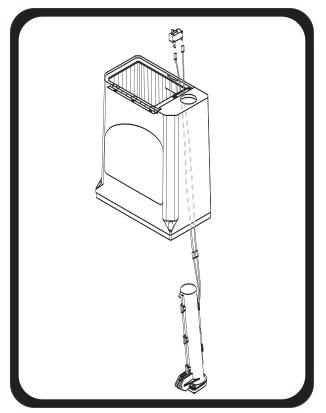
2. Switch Installation. Seat switch into the left wand guide. Snap lock latches together all the way up both sides of the wand guides.

Wire Harness

WIRE GUIDE - For ProForce 1500XP Only



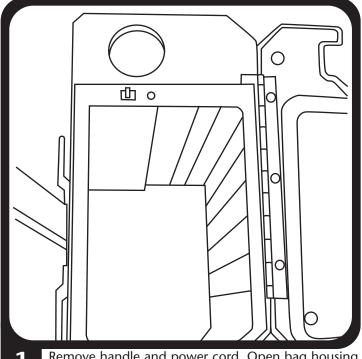
- Call ProTeam Customer Service at 866.888.2168 to order wire guide #105788.
- 2. Insert wire guide into bag housing switch cavity. Make sure one wire is on either side of opening.
- Thread wire guide through to the bottom of bag housing.
- Attach wire guide to switch leads.
- Pull wire guide back through the bag housing.



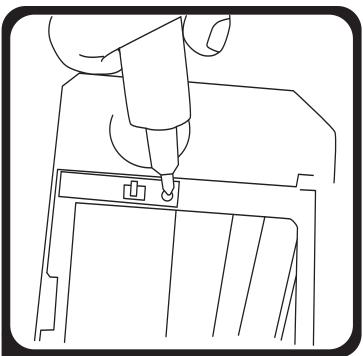
6. Remove wire guide and reinstall bag lockout switch.

Wire Harness

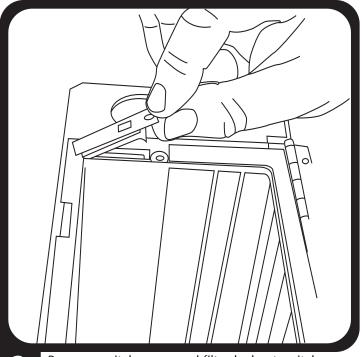
WIRE HARNESS REPLACEMENT



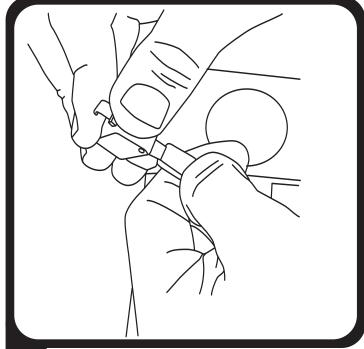
1. Remove handle and power cord. Open bag housing cover. Remove Intercept Micro Filter.



2. Remove switch cover screw.



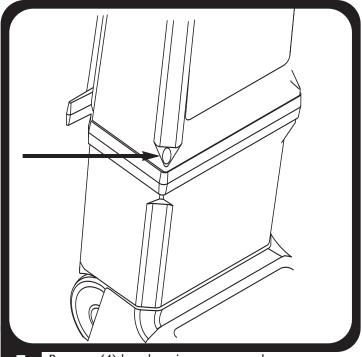
Remove switch cover and filter lockout switch. To remove the switch cover, insert a flathead screwdriver under switch lever and gently pry upward.



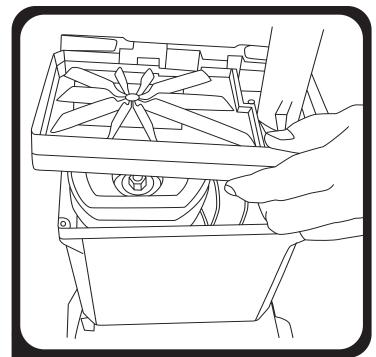
Remove crimps by pressing locking tab on connector.

(Continued on page 21)

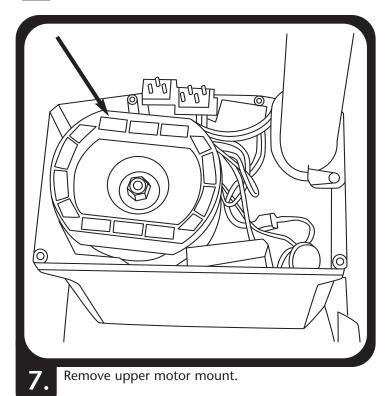
WIRE HARNESS REPLACEMENT (CONTINUED FROM PG. 20)

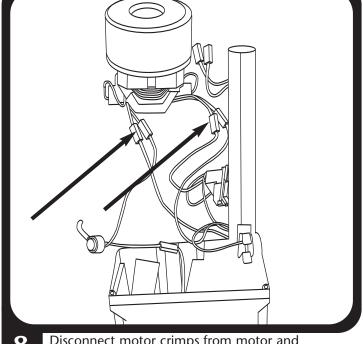


5. Remove (4) bag housing screws and remove bag housing.



Remove the bag full indicator tube (tube not pictured) from the bulkhead and lift off the bulkhead.



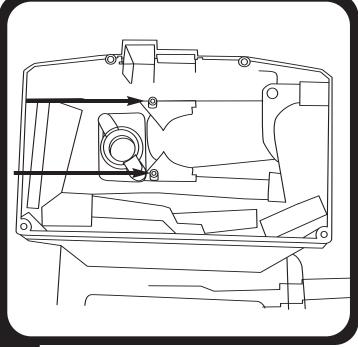


Disconnect motor crimps from motor and remove motor.

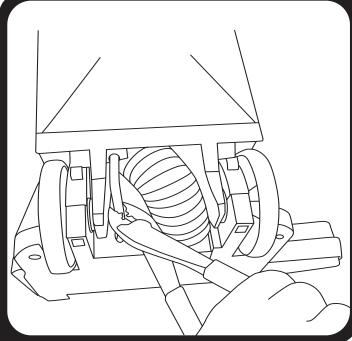
(Continued on page 22)

Wire Harness

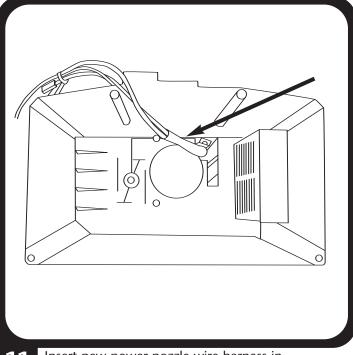
WIRE HARNESS REPLACEMENT (CONTINUED FROM PG. 21)



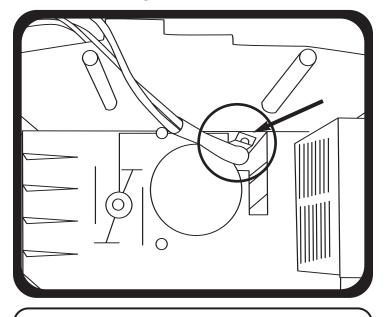
Remove (2) lower air duct screws from inside motor housing then remove the foam that covers wire harness.



Cut lower wire harness between the motor housing and the base assembly. Pull the air duct system, air duct hose and lower wire harness out of the motor housing.



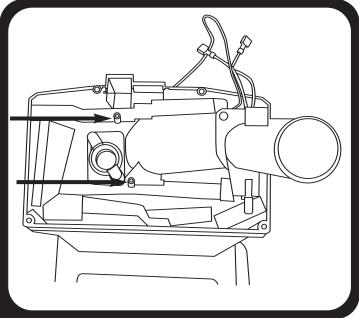
11. Insert new power nozzle wire harness in motor housing, locking brass fitting into position as shown.



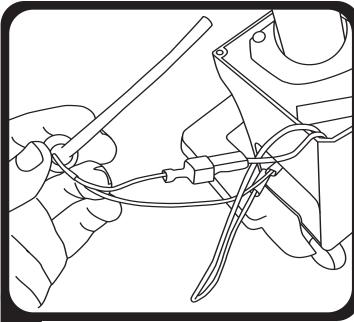
Note: Rotate brass fitting so it cannot be trapped by the lower duct.

(Continued on page 23)

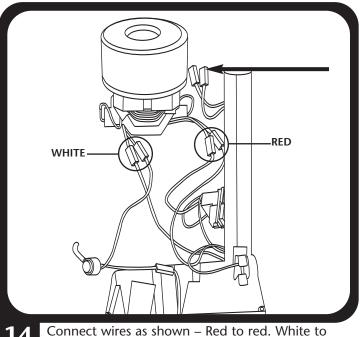
WIRE HARNESS REPLACEMENT (CONTINUED FROM PG. 22)



12. Install lower duct assembly and foam. Tighten (2) screws. Wire harness should remain behind lower duct assembly. Reinstall foam as shown.

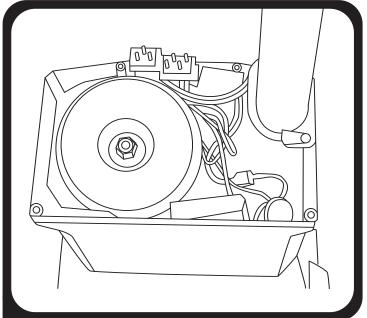


13. Install upper wire harness and connect the vacuum bag full sensor.



white.

Note: The two black wires are threaded up through the wand guide.



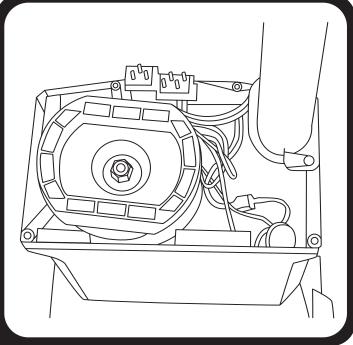
15. Replace vacuum motor as shown.

Note: motor must be properly seated. It is properly seated when the motor can no longer rotate easily. The bulkhead will not fully seat over the motor housing if the motor is not properly installed.

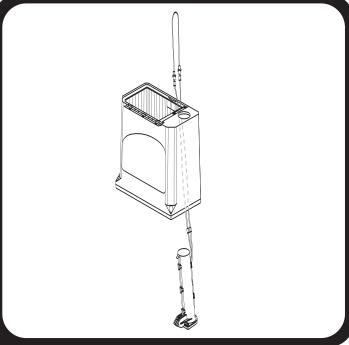
(Continued on page 24)

Wire Harness

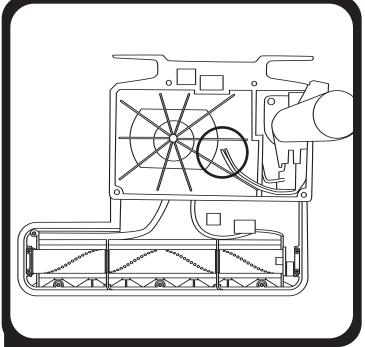
WIRE HARNESS REPLACEMENT (CONTINUED FROM PG. 23)



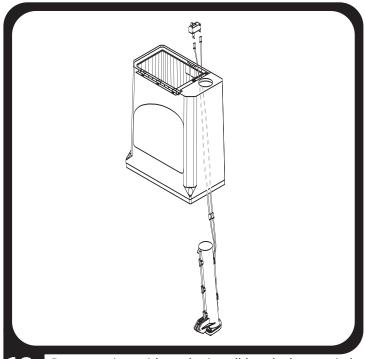
16. Replace sound foam and install the motor mount.



Insert wire guide into bag housing switch cavity. Make sure one wire is on either side of opening. Thread wire guide through to the bottom of bag housing. Attach wire guide to switch leads. Pull wire guide back through the bag housing.



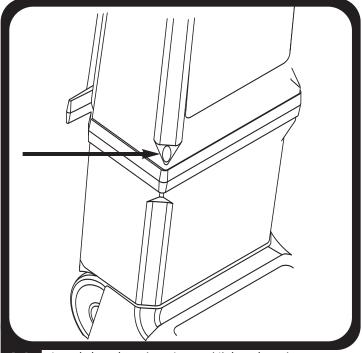
17. Tuck wires below bulkhead, leaving the bag full indicator tube out to insert into the bulkhead as shown. If the bulkhead does not seat firmly onto the motor housing, you must adjust the motor until the motor is properly installed.



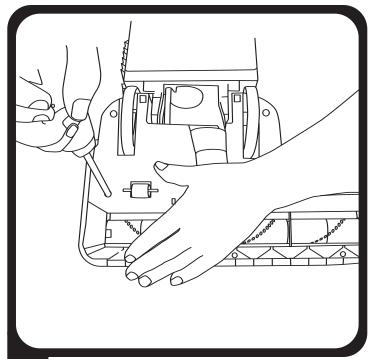
Remove wire guide and reinstall bag lockout switch.

(Continued on page 25)

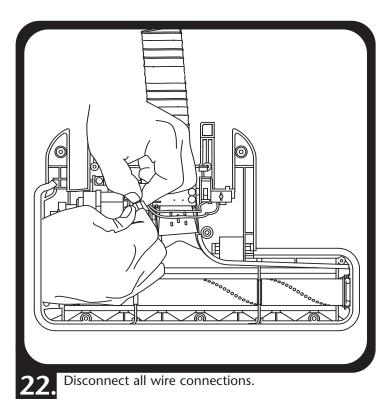
WIRE HARNESS REPLACEMENT (CONTINUED FROM PG. 24)

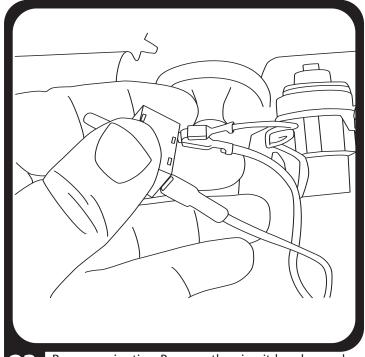


Attach bag housing. Insert (4) bag housing screws. Upper wire harness replacement now complete.



To replace lower wire harness remove (8) baseplate screws and turn vacuum back over to remove base cover.



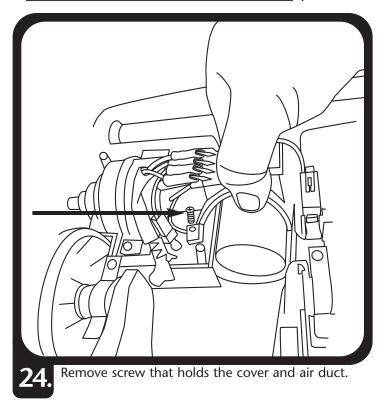


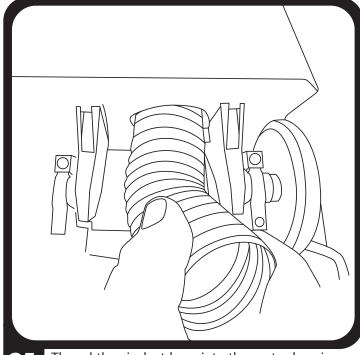
Remove wire ties. Remove the circuit breaker and power nozzle lockout switch. Do not remove power nozzle motor.

(Continued on page 26)

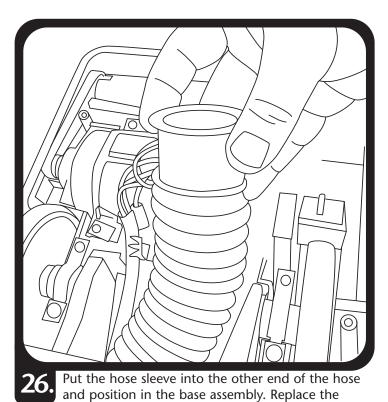
Wire Harness

WIRE HARNESS REPLACEMENT (CONTINUED FROM PG. 25)

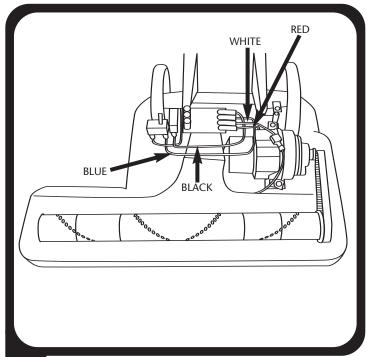




25. Thread the air duct hose into the motor housing.



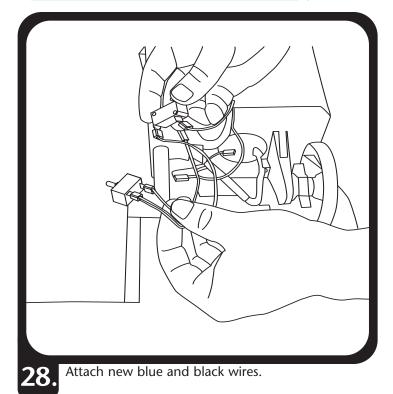
cover, air duct, and screw.

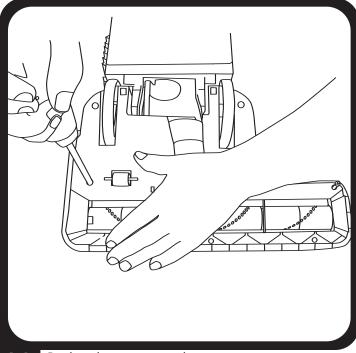


Connect wires as shown and verify orientation of switches.

(Continued on page 27)

WIRE HARNESS REPLACEMENT (CONTINUED FROM PG. 26)





29. Replace base cover and screws.

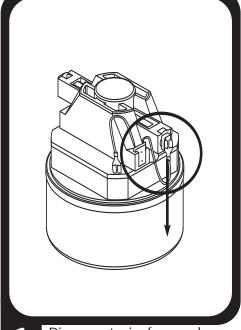
To Reassemble.

Reverse Steps 29 through 1 to finish reassembly.

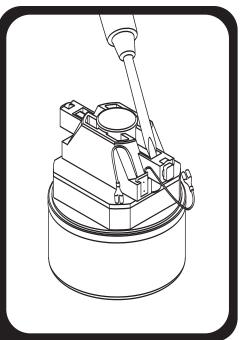
TO PERFORM A FUNCTION TEST:

- 1. Reinstall handle assembly and cord.
- 2. Install Intercept Micro Filter.
- 3. Plug in vacuum and turn vacuum on in the number two (II) position.
- 4. Powerhead motor should be running. Release vacuum from upright locked position.
- 5. The brush roll motor should stop and the red warning light should light up. Release the switch and the powerhead should go back to normal operation.
- 6. Turn the vacuum on in position number one (I). The vacuum motor should be on. Pull out the wand and cover the end of the wand with your hand. This will simulate blockage and the bag full light should come on. Take your hand off the end of the wand and the light should turn off. If your vacuum passes these tests, your vacuum is ready to use.

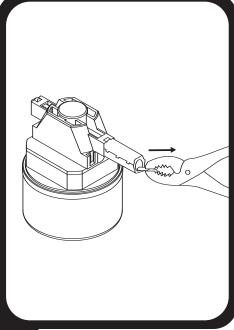
REMOVING CARBON BRUSHES



1. Disconnect wire from carbon brush.

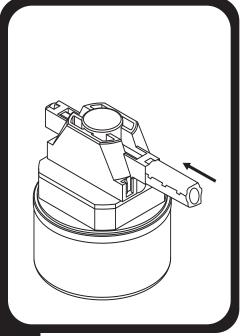


Remove both locking connectors with small flat tip screwdriver. Press brass tab (inside bracket) down so it is flush with brush.

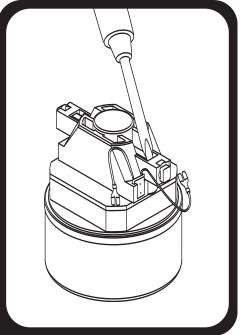


3. Using pliers (or fingers), carefully grasp tab and remove carbon brush from bracket

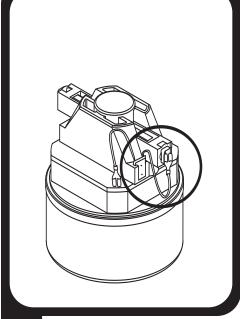
INSTALLING CARBON BRUSHES



Insert carbon brush into bracket.

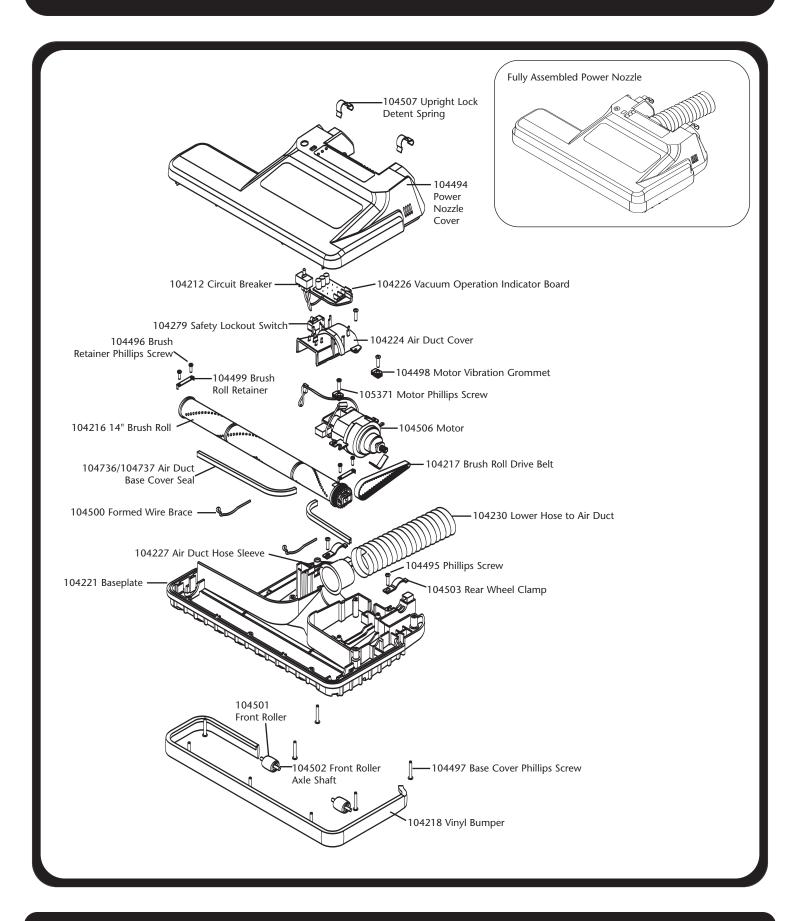


2. Carefully bend brass tab slightly upward with small flat tip screwdriver.



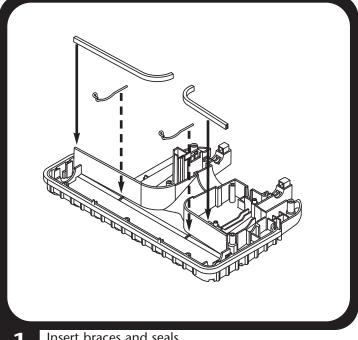
Re-connect wire. Replace locking tabs. Bend tabs downward.

Power Nozzle

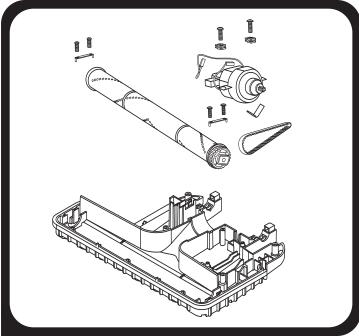


Power Nozzle

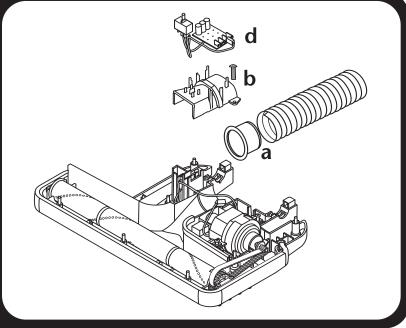
ASSEMBLY



Insert braces and seals.



Install motor, brush roll, and belt. Be careful. Do not attempt to over-tighten screws.



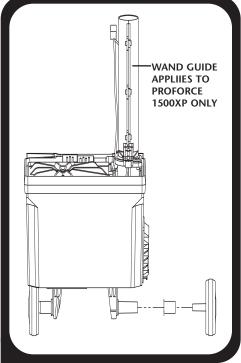
Fully assembled power nozzle (bottom view).

- Additional components:
 - a) Install sleeve and hose.
 - b) Install duct cover.
 - c) Install electronic components, SPI board, circuit breaker, and switch.
 - d) Attach jumper wire to SPI board.
 - e) Make sure components are properly seated in the base.

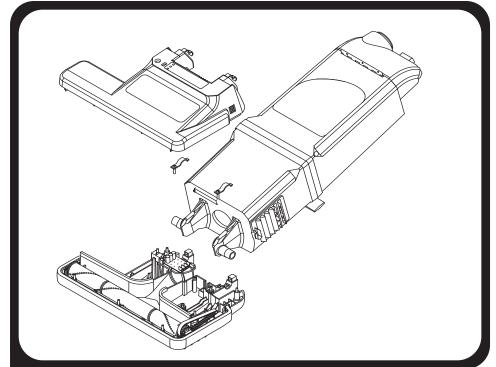
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Power Nozzle to Body Assembly

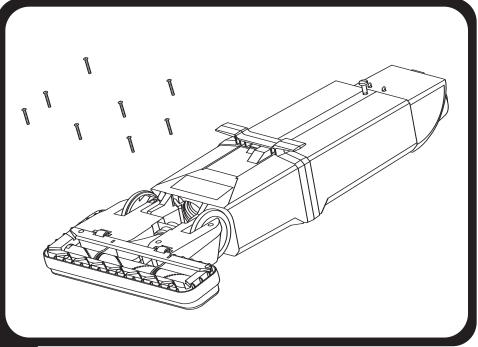
ASSEMBLY



Place axle sleeve onto motor axle, making sure the shoulder is facing the motor housing. Put wheel onto motor housing axle.



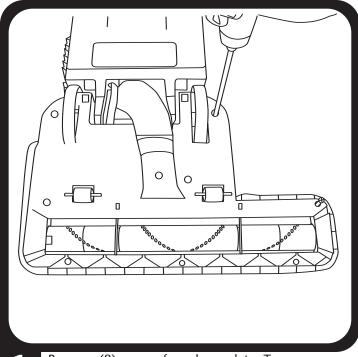
Wheel axles on the motor housing should be placed in the grooves on the power nozzle base. Wheel clamps are then put into place and screwed down. Power nozzle cover will then be placed on top of the base.



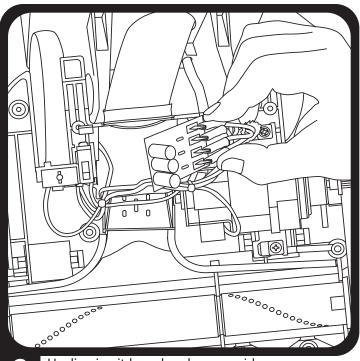
Flip the unit and fasten cover to power nozzle base using (8) screws.

Power Nozzle

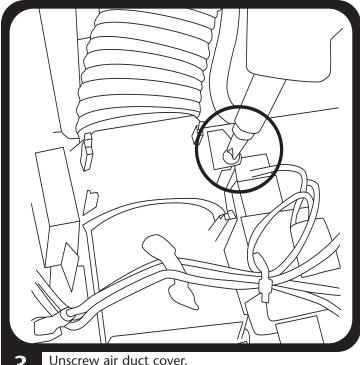
HOSE SLEEVE REPLACEMENT



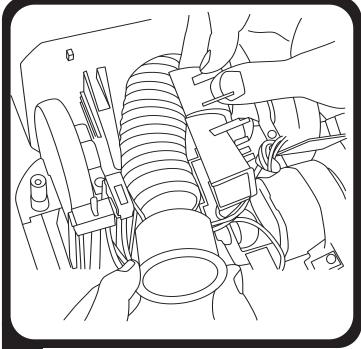
Remove (8) screws from base plate. Turn vacuum over and pull base cover off powerhead.



Unclip circuit board and move aside.



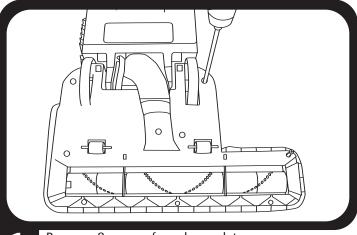
Unscrew air duct cover.



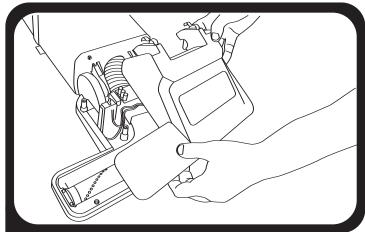
Pull off air duct cover. Pull out hose sleeve. Replace with new sleeve. Sleeve must sit in groove to be properly seated. Reverse steps to reassemble.

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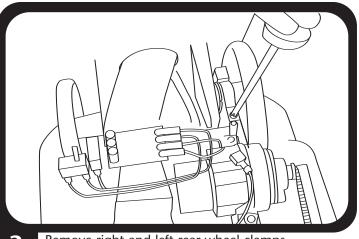
PIVOT BEARING REPLACEMENT/WHEEL REPLACEMENT



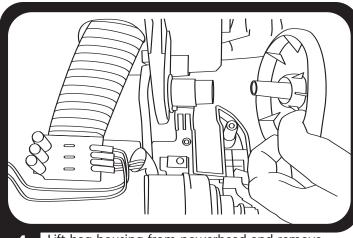
Remove 8 screws from base plate.



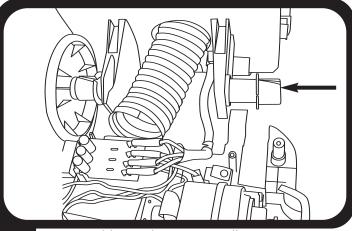
2. Turn vacuum over and pull base cover off powerhead.



Remove right and left rear wheel clamps.



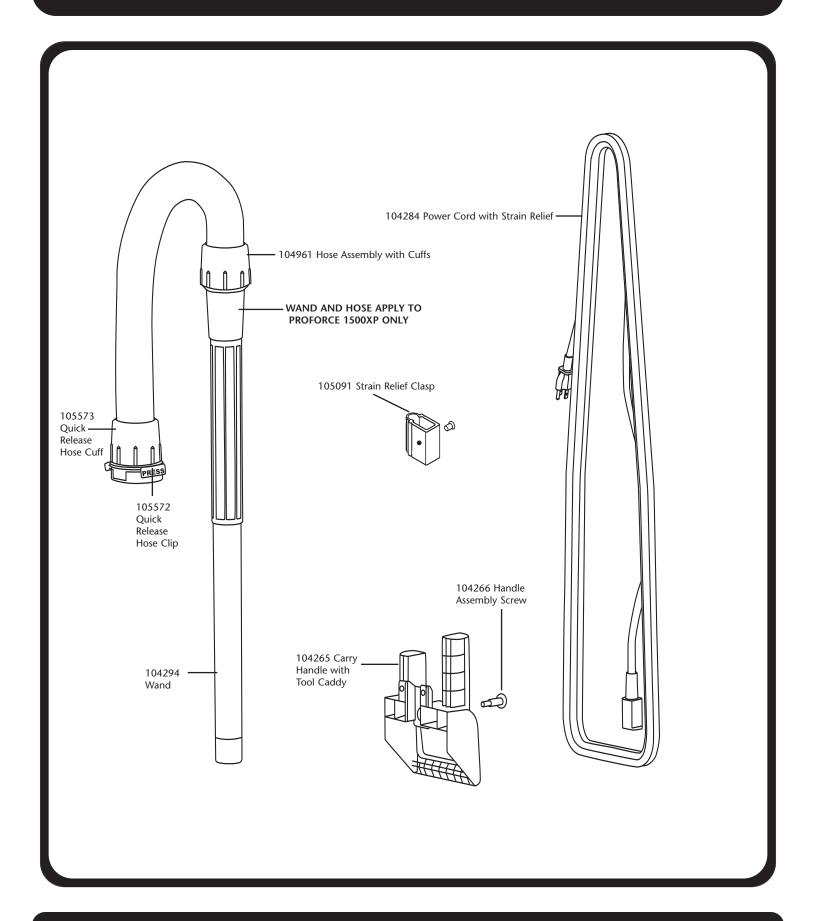
Lift bag housing from powerhead and remove wheel.

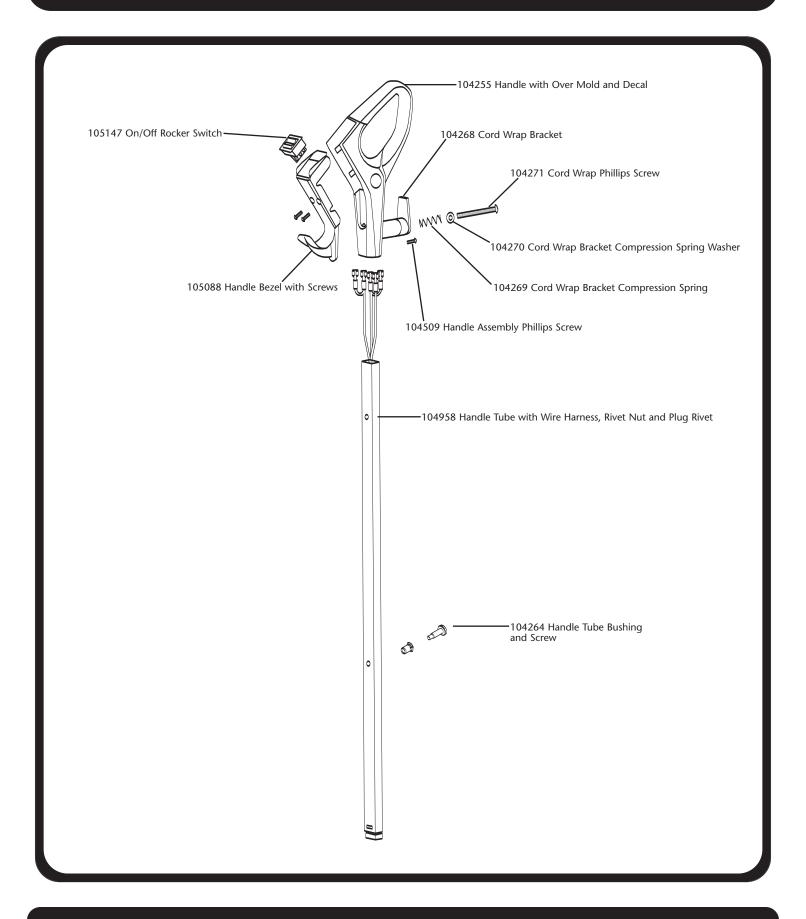


Remove old pivot bearing. Install new pivot bearing.

To Reassemble. Repeat steps in reverse.

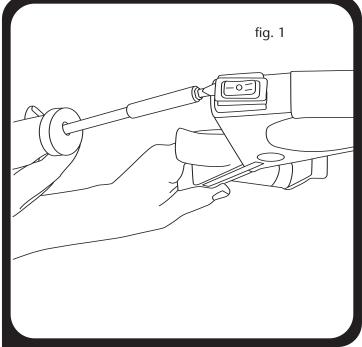
Hose and Power Cord

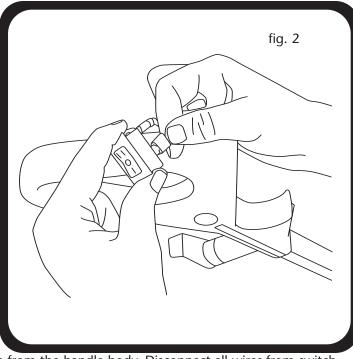




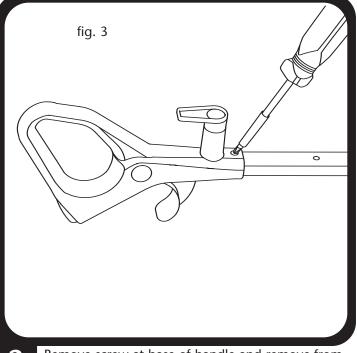
Handle

HANDLE ASSEMBLY

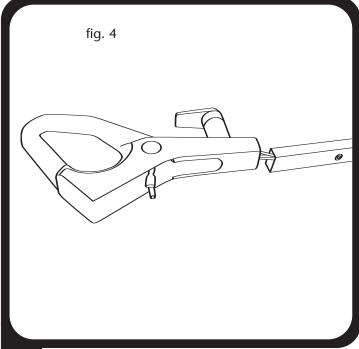




Use a flathead screwdriver (fig. 1) to pry bottom of switch from the handle body. Disconnect all wires from switch posts by depressing locking tab on base of crimps. (Fig. 2)



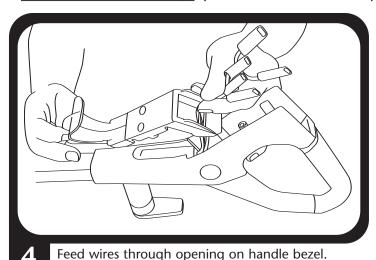
2. Remove screw at base of handle and remove from handle tube (fig. 3).

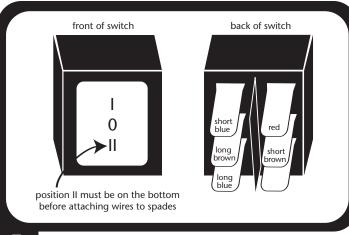


3. Feed handle wire harness through new handle and replace screw at the base of the handle (fig. 4).

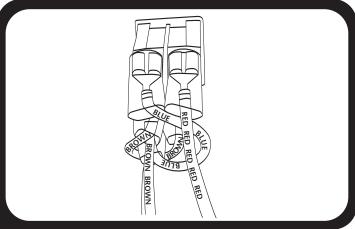
(Continued on page 37)

HANDLE ASSEMBLY (CONTINUED FROM PG. 36)

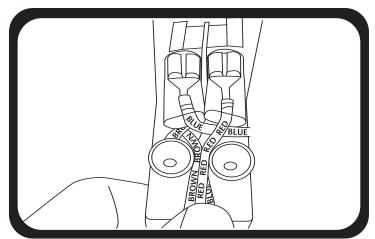




- 5. Using the diagram provided above, attach wires to switch. Orient the switch box with the II position on the down side.
 - a) Attach the first plug on the brown wire to the middle left spade.
 - b) Attach the first plug on the blue wire to the lowest left spade. Wait to attach the last blue plug.
 - c) Wrap the second brown plug underneath blue and attach to the middle right spade.
 - d) Attach the last blue plug to the upper right spade. The bottom right spade will remain unattached.
 - e) Connect the red wire to the top right spade.



When finished with steps a through e your final wire connection configuration should appear as above.

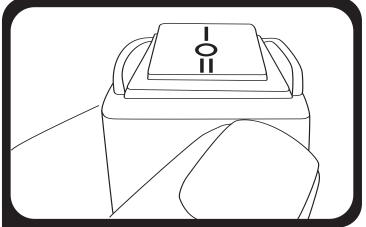


Install the switch into the handle bezel. Place the long BLUE, BROWN, then RED wires between the screw bosses in that order (as shown). BROWN and BLUE wire loops must be positioned above the screw bosses on the handle bezel as shown.

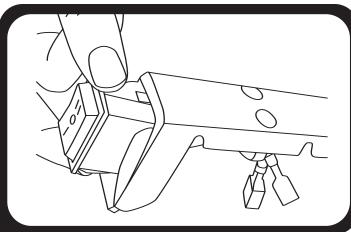
(Continued on page 38)

Handle

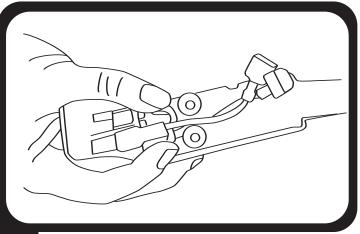
HANDLE ASSEMBLY (CONTINUED FROM PG. 37)



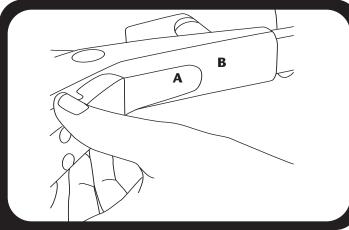
7. Switch must remain flat to the handle bezel when installed into handle body as shown.



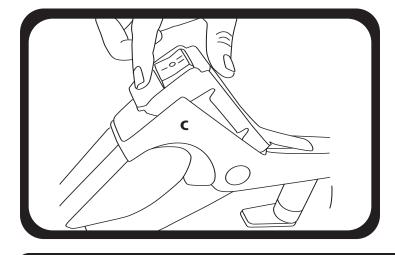
Press the switch into place in the handle bezel. The II position should be closest to the front of the bezel.

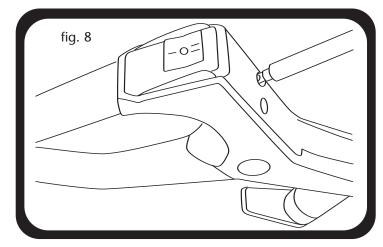


9. Lay the long red, brown and blue wires between the circular shoulders and gently place handle bezel into handle.



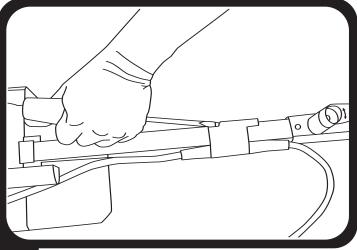
Slide tab A into handle slot B and press firmly into place at C. Be sure all switch wires are routed between screw bosses to ensure that the wires do not get damaged. Insert screws into bezel (fig. 9).



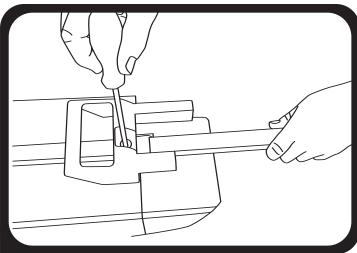


Handle and Power Cord

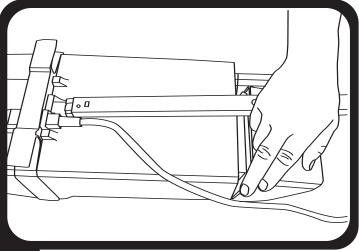
NEW CORD AND STRAIN RELIEF REPLACEMENT



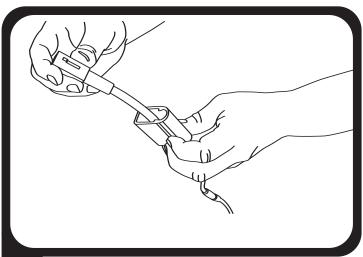
1. Use a flathead screwdriver and hammer to push the strain relief towards the handle. Snap off remaining strain relief.



2. Remove screw from carry handle and remove carry handle.



3. Slide handle tube away from base. Unplug old power cord.



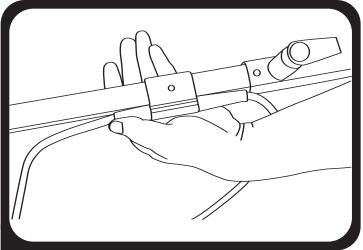
Feed new strain relief clasp over the new power cord. Slide strain relief up to the groove on the power cord and snap strain relief clasp into place.

NOTE: Use care when sliding the strain relief clasp over the handle tube bushing so as not to damage bushing.

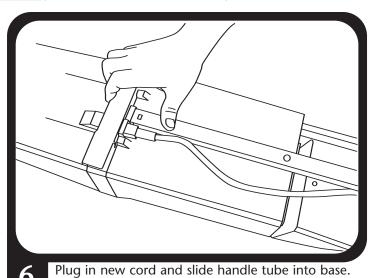
(Continued on page 40)

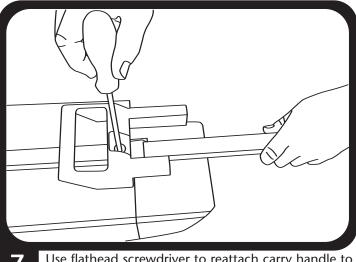
Handle and Power Cord

NEW CORD AND STRAIN RELIEF REPLACEMENT (CONTINUED FROM PAGE 39)



5. Slide handle tube through opening in strain relief. Align holes on strain relief and handle tube. Insert new ratchet fastener in hole and push flush.

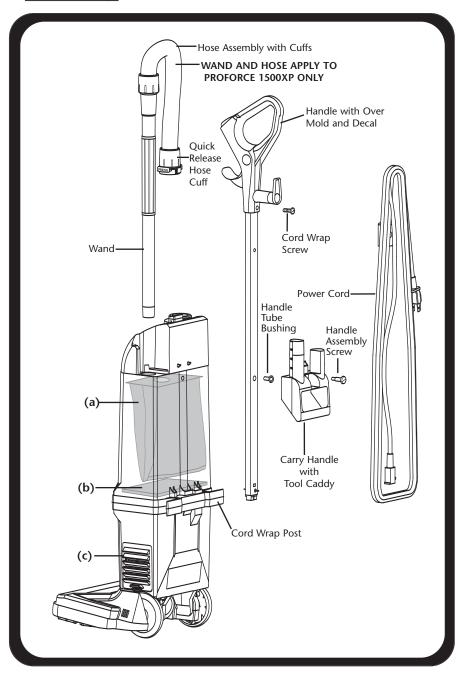




7. Use flathead screwdriver to reattach carry handle to handle tube.

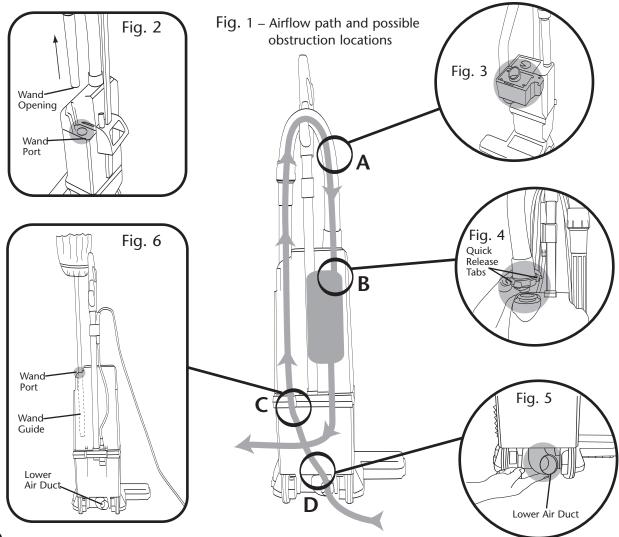
Final Vacuum Assembly

ASSEMBLY



- Install all 3 filters:
 - (a) Intercept Micro Filter
 - (b) Motor Intake Filter
 - (c) Exhaust Filter
- 2. Install Power Cord and Handle with Over Mold and Decal.
 Attach with Handle Tube Bushing and Carry Handle with Tool Caddy.
- Wrap Power Cord around Cord Wrap Post.

Troubleshooting-Clearing Hose and Wand Obstructions



- Familiarize yourself with air flow path and possible obstruction locations (Fig 1).
- To determine obstruction location, remove wand from port. (Fig 2). Turn on vacuum and place hand over wand opening to check for proper suction. If no suction exists, blockage is at location A or B (as shown in Fig 1) and proceed to Step 3. If there is proper suction, the blockage is at location C or D (as shown in Fig 1) and proceed to Step 5.
- 3. Open Bag Housing Cover (Fig. 3) and replace Intercept Micro Filter. A full filter will restrict airflow.
- Remove hose from the bag housing cover by using the quick release tabs. (Fig. 4). Look into upper hose and wand. Shake or insert broom handle to clear any visible debris. Replace hose and wand on vacuum.
- If blockage is not in the wand or upper hose, disconnect the lower air duct hose on the back of the power nozzle (Fig 5). Visually check the lower air duct hose for debris and remove. To check for unobstructed air flow, turn on vacuum and place hand over opening on lower air duct. If you feel proper suction, reconnect lower air duct and resume vacuuming. If blockage is not in lower air duct hose, proceed to step 6.
- With bottom air duct hose and upper hose and wand disconnected, carefully insert a broom handle (or any similar item like a short length of hose, pipe, etc) approximately 14 inches into wand guide on top of vacuum housing (Fig. 6) to dislodge obstruction or debris. Debris should then drop or move into the lower air duct where you can then remove it with your hand (Fig 5).
- Reconnect the lower air duct and upper hose assembly, and power on the vacuum.

Electrical

