

OWNER'S MANUAL Operating and Servicing Instructions



THIS CLEANER IS INTENDED FOR HOUSEHOLD USE ONLY.

IMPORTANT SAFETY INSTRUCTIONS

When you use an appliance, basic precautions should be followed, including the following:

- READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE.
- ALWAYS FOLLOW THESE SAFETY INSTRUCTIONS.
- BRING CLEANER TO UPRIGHT POSITION WHEN USING THE HOSE AND ATTACHMENTS.
- DO NOT LEAVE CLEANER UNATTENDED WHEN PLUGGED IN.
- REGULARLY CHECK THE FILTERS TO CLEAN OR REPLACE.
- WARNING: DO NOT USE SHARP OBJECTS TO CLEAN OUT THE HOSE SINCE THEY COULD CAUSE DAMAGE.
- OCCASIONALLY REMOVE BRUSH AND CLEAN DEBRIS FROM END CAPS TO KEEP BRUSH ROTATING SMOOTHLY.
- WARNING: THE CORDS, WIRES, AND/OR CABLES SUPPLIED WITH THIS PRODUCT CONTAINS CHEMICALS, INCLUDING LEAD OR LEAD COMPOUNDS, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. WASH HANDS AFTER USING.

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE.

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY:

- Do not leave appliance when plugged in. Unplug from outlet when not in use and before servicing.
- · Do not use outdoors or on wet surfaces. Electrical shock could occur.
- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Use only as described in this manual. Use only manufacturer's recommended attachments.
- Do not use with damaged cord or plug. If appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center for inspection. Call 1-800-321-1134 for the nearest service center.
- Do not pull or carry by cord, use cord as handle, close a door on cord, or pull cord around sharp edges or corners. Do not run appliance over cord. Keep cord away from heated surfaces.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Do not handle plug or appliance with wet hands.
- Do not put any objects into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.

- Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
- Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
- Do not use without dirt container and filters in place.
- · Turn off all controls before unplugging.
- Use extra care when cleaning on stairs.
- Do not use to pick up flammable or combustible liquids, such as gasoline, or use in areas where they may be present.
- Keep the vacuum cleaner on the floor. Only the hand-held vacuum cleaners may be set on furniture.
- Cleaner must be in the upright position to lift the rotating brush off the carpet when doing above floor cleaning.
- Do not use an extension cord with this vacuum cleaner.
- Store the vacuum cleaner indoors. Put the vacuum cleaner away after use to prevent tripping accidents.
- Using improper voltage may result in damage to the motor and possible injury to the user. Proper voltage is listed on the cleaner plate.
- Unplug before connecting Turbo Tool[™].
- If unintended operation of the propulsion should occur Return the cleaner handle to the full upright position and/or turn off power to the cleaner at the foot pedal switch.

SAVE THESE INSTRUCTIONS WARNING:

To reduce the risk of electric shock, this appliance has a polarized plug (one blade wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

Your cleaner contains a thermal protective device to shut off the motor to avoid overheating. If this happens, turn switch off and unplug the cleaner. Inspect the exhaust, inlet, and filters for any blockage. Empty the dirt container and clean filters. After approximately 30 minutes the motor will have cooled and the vacuum will be ready to use. **NOTE:** *the cleaner must remain unplugged during the 30 minute cooling period.*

CONGRATULATIONS

You are now the proud owner of a Dirt Devil*. We trust your new purchase will bring you many years of satisfaction.

Our company designed and developed this product with you in mind. The Self-Propelled vacuum takes the effort out of pushing and adjusts to your cleaning pace, thanks to its advanced Electronic Drive System. Simply set the control switch to your desired speed and the vacuum will easily move along with you, in both forward and reverse directions.

For effortless cleaning with total control, nothing beats a Dirt Devil[®] Self-Propelled vacuum!

Thank you for your support of Dirt Devil® products. Visit our website at www.dirtdevil.com

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LIMITED WARRANTY

To the consumer, Royal Appliance Mfg. Co. warrants this vacuum cleaner to be free of defects in material or workmanship commencing upon the date of the original purchase. Refer to your vacuum cleaner carton for the length of warranty and save your original sales receipt to validate start of warranty period.

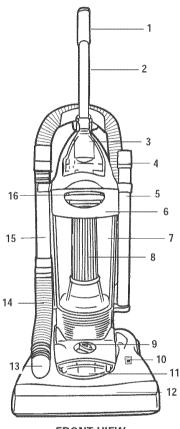
If the vacuum cleaner should become defective within the warranty period, we will repair or replace any defective parts free of charge. The complete machine must be delivered <u>prepaid</u> to any ROYAL[®] Authorized Sales & Warranty Service Station. Please include complete description of the problem, day of purchase, copy of original sales receipt and your name, address and telephone number. If you are not near a Warranty Station, call the factory for assistance at USA & Canada: 1-800-321-1134. Use only genuine Royal[®] replacement parts.

The warranty does not include unusual wear, damage resulting from accident or unreasonable use of the vacuum cleaner. This warranty does not cover brushes, flat belts, filters and bulbs. This warranty does not cover unauthorized repairs. This warranty gives you specific legal rights and you may also have other rights (Other rights may vary from state to state in the USA).

FEATURES

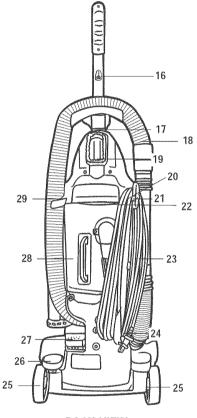
FRONT VIEW





FRONT VIEW

- 1. Handle Grip
- Handle 2.
- 3. Turbo Tool™
- Crevice Tool (inside extension wand) 4.
- 5. Extension Wand
- 6. Dirt Cup Lid
- See Through Dirt Cup 7.
- 8. Dirt Cup Filter
- 9. Height Adjust Lever
- 10. Self-Propelled (E-Drive) Speed Switch
- 11. Headlight
- 12. Bumper
- 13. Clear Dirt Path Window
- 14. Lower Hose
- 15. Hose Wand
- 16. Dirt Cup Release Latch

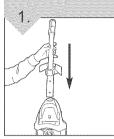


BACK VIEW

- Self-Propel Switch
 Hose Caddy
- 18. Hose
- 19. Dust Brush
- 20. Cord Guide
- 21. Cord Wrap with Quick Cord Release 22. Carrying Handle
- 23. Long Power Cord
- 24. Lower Cord Wrap
- 25. Wheels
- 26. Handle Release Pedal
- 27. On/Off Pedal
- 28. Back Panel
- 29. Hose Clip

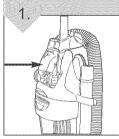
HOW TO ASSEMBLE

TOOL REQUIRED: PHILLIPS OR FLAT HEAD SCREWDRIVER

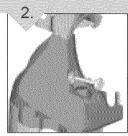


Guide power cord into opening. Slide upper handle into turbo tool caddy.

INSTALL TURBO TOOL™

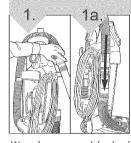


Clip turbo tool onto the front of the turbo tool caddy.

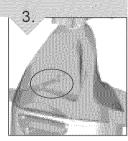


Insert handle fastener into the back of the turbo tool caddy.

SECURE BACK HOSE

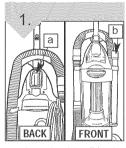


Wrap hose around back of hose caddy (Diagram 1). Push hose wand down into the right side of cleaner (Diagram 1a).



Insert the one (1) screw into the front and tighten until secure.

TOOL STORAGE

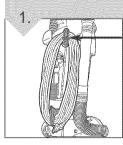


Attach tools: (a) Slide the dust brush onto post on the upper tool caddy with bristles facing out. (b) Slide the extension wand/crevice tool into round slot on the front right side of tool caddy.

HOW TO OPERATE

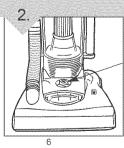
CAUTION: Brush agitator continues to rotate while hose is removed or in use and at all times while cleaner is on. Keep hair, loose clothing, fingers, and all parts of body away from brush area while cleaner is on. Cleaner must be in the upright position to lift the rotation brush off the carpet when cleaning above the floor.

CORD RELEASE



Turn Quick Cord Release for easy cord removal. Store cord in cord guide (see Features - pg. 5) to keep out of the way while vacuuming.

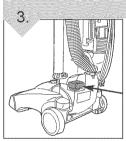
HEIGHT ADJUST KNOB



Turn the height adjust knob to match the surface being cleaned. **NOTE:** For easiest adjustment, place cleaner in full upright position.

HOW TO OPERATE CONTINUED

ON/OFF PEDAL



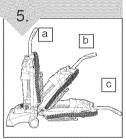
Plug cord into electrical outlet. Turn cleaner on by depressing foot pedal located on the back left side of the cleaner.

HANDLE RELEASE PEDAL



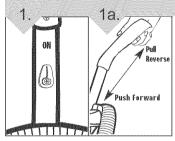
To release handle, push the handle release pedal located on the lower left side of the cleaner.

FLOOR/CARPET CLEANING



Move the handle and adjust it to the desired position for (a) storing the upright, (b) operating the cleaner, and (c) depress the handle release pedal again to clean under furniture.

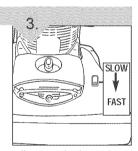
TO OPERATE SELF-PROPELLED FEATURE



For everyday use, engage self-propelled feature by turning switch up to the "ON" position (Diagram 1). Grasp handle grip and push vacuum (Diagram 1a).



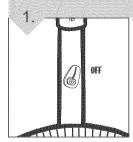
"Self-Propelled" feature will work as vacuum is pushed forward and pulled backward.



Adjust speed selector (located on the nozzle) to preferred speed (slow/fast). This feature optimizes the self propelled drive system, vacuum speed and carpet height.

NOTE: If unintended operation of the propulsion should occur - Return the cleaner handle to the full upright position and/or turn off power to the cleaner at the foot pedal switch.

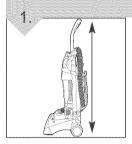
TO DISENGAGE SELF-PROPELLED FEATURE

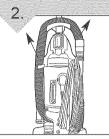


To disengage the self-propelled feature turn switch slightly to the right to the "OFF" position.

HOW TO OPERATE CONTINUED

ABOVE FLOOR CLEANING





Cleaner must be in its upright position to raise brushroll.

Remove the hose from the tool caddy.



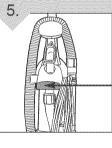
attachment firmly onto the end of the wand or hose handle. To remove tool, twist and pull apart gently.

EXTENSION WAND



If additional length is needed, use the extension wand and crevice tool. **NOTE**: *The crevice tool is stored inside the extension wand.*

CARRY HANDLE



Use the carry handle on the back of the cleaner to move the cleaner from room to room.

DIRT CONTAINER & HEPA FILTER: REMOVAL & REPLACEMENT

WARNING: TO REDUCE THE RISK OF INJURY FROM MOVING PARTS - UNPLUG BEFORE SERVICING. For filter replacement (Part # 2-JCO280-000) please call 1-800-321-1134 or visit www.dirtdevil.com to locate a dealer nearest you.

NOTE: Unplug cleaner before changing filter. **NOTE:** For best performance, replace filter yearly.

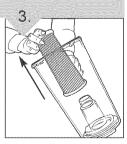
EMPTY AND CLEAN DIRT CONTAINER



Grasp latch and top of dirt cup. Squeeze latch and pull cup and lid straight out to remove.



Remove lid by grasping dirt cup handle and turning lid counterclockwise.



Hold the dirt container and grasp the top of filter. Twist and pull the filter up and out.

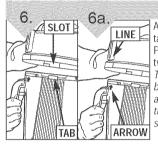
DIRT CONTAINER & HEPA FILTER: REMOVAL & REPLACEMENT CONTINUED



Clean filter and empty dirt container completely. See "Regular Maintenance" note below for instructions on cleaning the filter.



Return filter to dirt container. Push filter into place to prevent dirt leakage.



Align slots on lid with tabs on cup (Diagram 6). Push the lid down and twist clockwise. NOTE: There is a guide line on back of lid. Align line with arrow on the dirt cup and turn clockwise until secure (Diagram 6a).



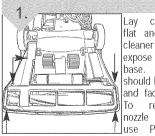
Return dirt container to cleaner. Set aligning tab on bottom of dirt cup into retangular slot on cleaner (inset), and push to snap into place.

*Regular Maintenance: Each time the dirt container is emptied, the filter should be cleaned. Tap the filter firmly against the inside of a trash can until the dirt stops falling from the filter. (Filter will be discolored after use, this will not affect the filter's performance.) Do not brush the filter. The cleaning instructions may vary depending on the dirt conditions. In some cases, more or less cleaning of the filter may be required. It is recommended that the HEPA filter Part # 2-JCO280-000 be replaced once per year. Please use reminder label located on filter cap to record replacement date.

OR BRUSH REMOVAL & REPLACEMENT

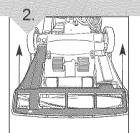
TOOL REQUIRED: PHILLIPS SCREWDRIVER WARNING: TO REDUCE THE RISK OF INJURY FROM MOVING PARTS - UNPLUG CLEANER BEFORE CHANGING BELT OR BRUSHROLL.

TO REMOVE BELT

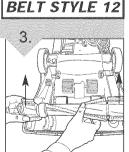


Lay cleaner flat and flip cleaner to expose nozzle base. Base should lay flat and face up. remove nozzle guard, use Phillips

screwdriver to remove the five (5) screws. Arrows show location of screws.



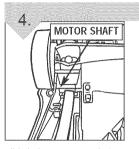
Lift nozzle quard off.



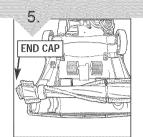
Lift and remove brushroll. Dispose of old belt.

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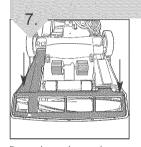
BELT OR BRUSH REMOVAL & REPLACEMENT CONTINUED TO REPLACE BELT OR BRUSHROLL



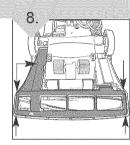
Slide belt onto motorshaft.



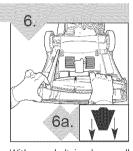
Place new belt in area of brushroll without bristles.



Reattach nozzle guard.



Replace all five (5) screws to secure nozzle guard.



With new belt in place, pull and slide brushroll into nozzle making sure that the brushroll end caps are in the correct orientation (6a inset). Rotate brushroll manually to make sure belt is properly aligned.

LIGHTBULB REMOVAL AND REPLACEMENT

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK - UNPLUG CLEANER BEFORE REMOVING OR REPLACING LIGHTBULB.

This cleaner uses a common automotive lamp #906, 13.0 volts. For bulb replacement call 1-800-321-1134 or your local auto parts store.

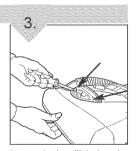
TOOL REQUIRED: SMALL PHILLIPS HEAD SCREWDRIVER



Lean cleaner handle back. Remove the two (2) screws located on either side of the headlight lens.



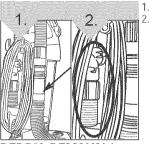
Pull bulb out of socket to remove. Do NOT twist. Gently push bulb into socket to replace.



Secure the headlight lens by replacing the two (2) screws.

GENERAL MAINTENANCE

WARNING: TO REDUCE THE RISK OF INJURY FROM MOVING PARTS - UNPLUG BEFORE SERVICING. DEBRIS REMOVAL/HOSE

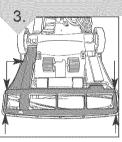


DEBRIS REMOVAL/ **NOZZLE GUARD**

1.

Check to see if dirt cup is full; empty if needed. Plug cleaner in and check to see if there is any suction at end of hose (Diagram 1). If there is *suction* at end of hose, move on to Diagram 3. If there is *no suction* at the end of hose, clear dirt path window and lower hose. Follow these steps: 1. Unplug cleaner. 2. Twist and pull hose from upper hose inlet (Diagram 2). 3. Unwrap hose from caddy. Remove obstruction.

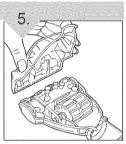
DEBRIS REMOVAL/TURBO TOOL



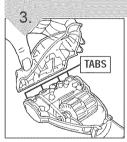
Remove nozzle guard (see Diagram 1) by removing the five (5) screws. Look for obstructions and any remove. Remove brushroll if necessary.



Rotate locking ring 180° and turn turbo tool over.



Pivot lower housing and remove clog.

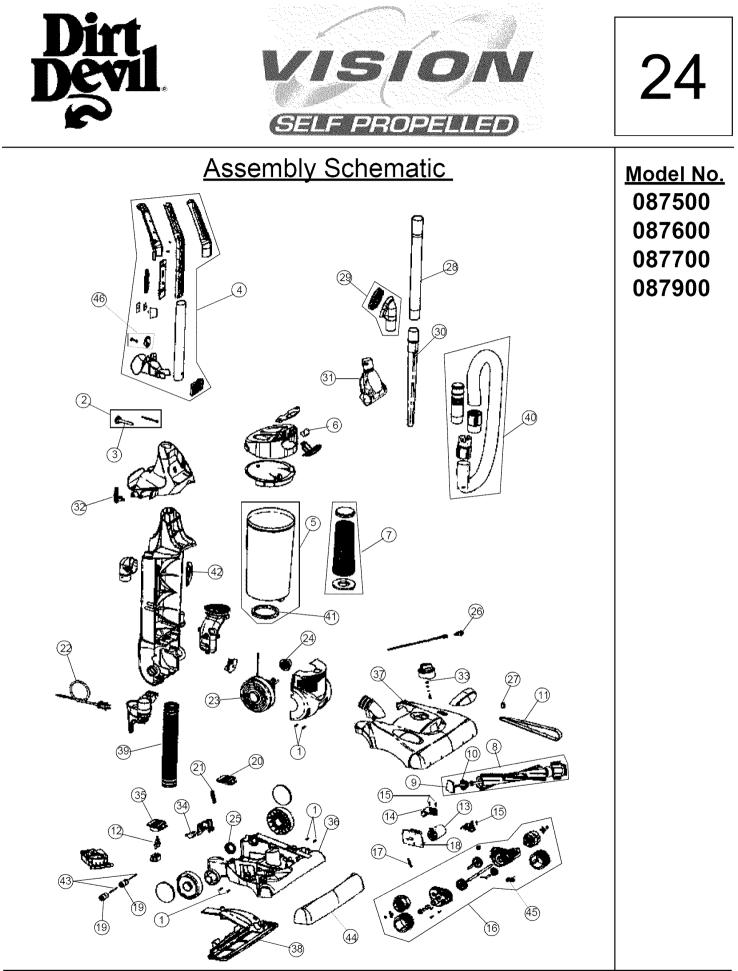


To reassemble, be sure tabs are engaged and pivot the lower housing closed.

TROUBLESHOOTING GUIDE					
PROBLEM	POSSIBLE REASON	POSSIBLE SOLUTION			
Cleaner won't run	 Power cord not firmly plugged into outlet. Blown fuse or tripped breaker. Needs service. Thermal Protector activated. 	 Plug unit in firmly. Check fuse or breaker in home. Replace fuse/reset breaker. Take to service center or call 1-800-321-1134. Allow cleaner to cool - Pg. 3. 			
Cleaner won't pick-up or low suction	 Dirt container not installed correctly. Dirt container full. Brushroll worn. Broken or worn belt. Clogged filter. Nozzle/dirt passage hose clogged. Carpet height setting is incorrect. 	 Review dirt container removal and replacement - Pg. 8. Empty dirt container - Pg. 8. Replace brushroll - Pg. 9. Replace belt - Pg. 9. Remove filter and clean - Pg. 8. Remove lower hose; remove obstru- ction - Pg. 11. Set carpet height adjust lever to appropriate setting for carpet being cleaned - Pg. 6. 			
Dust escaping from cleaner	 Dirt container full. Dirt container not installed correctly. Hose not installed correctly. Filter not installed completely. 	 Empty dirt container - Pg. 8. Review dirt container removal and replacement - Pg. 8. Review hose installation - Pg. 6. Review filter Removal and Replacement - Pg. 8. 			
Cleaner tools won't pick-up	 Hose clogged. Dirt container full. Filter clogged. 	 Remove hose and tools; remove obstruction - Pg. 6 & Pg. 11. Empty dirt container - Pg. 8. Clean filter - Pg. 8. 			
Headlight not	 Bulb burnt out. Loose electrical wires. 	 Replace bulb - Pg. 10. Call 1-800-321-1134 for nearest authorized Royal* Dealer. 			
Cleaner is difficult to push or won't	 Carpet height setting is incorrect. Self-Propelled feature not activated. Speed selector setting is incorrect. 	 Set carpet height adjust lever to appropriate setting for carpet being cleaned - Pg. 6. Review Self-Propelled feature - Pg. 7. Change speed selector - Pg. 7. 			

ANY OTHER SERVICING SHOULD BE DONE BY AN AUTHORIZED SERVICE REPRESENTATIVE

CUSTOMER SERVICE (1-800-321-1134) In the event that further assistance is required, see your Yellow Pages for an authorized Royal* Dealer. Costs of any transporta-tion to and from any place of repair are to be paid by the owner. The service parts used in this unit are easily replaced and read-ily available from an authorized Royal* Dealer or retailer. Always identify your cleaner by the model number and manufacturing code when requesting information or ordering replacement parts. (The model number appears on the bottom of the cleaner.)







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Part Listing / Price List

ltem	Part Number	Models To Fit	Part Description
1	1-503819-000	ALL	SCREW - BODY 8-10 X 5/8
2	2-LC0331-000	ALL	HANDLE SCREW PACKAGE
3	1-LC0333-000	ALL	HANDLE FASTENER
4	2-LC0320-000	ALL	UPPER HANDLE ASSEMBLY - 5 WIRE
	2-LC0322-000	ALL	UPPER HANDLE ASSEMBLY - 3 WIRE
5	2-LC0040-000	087900	DIRT CUP ASSEMBLY
	2-LC0040-BW0	087700	DIRT CUP ASSEMBLY
	2-LC0040-AL0	087600	DIRT CUP ASSEMBLY
	2-LC0040-BZ0	087500	DIRT CUP ASSEMBLY
6	1-910080-000	ALL	LATCH SPRING
7	2-JC0280-000	ALL	HEPA FILTER ASSEMBLY
8	2-LC0200-000	ALL	BRUSH ROLL ASSEMBLY
9	1-910380-000	ALL	END CAP
10	1-910385-000	ALL	BEARING SUPPORT
11	1-LC0011-600	ALL	STYLE 12 BELT
12	1-860081-000	ALL	POWER SWITCH
13	2-LC0400-000	ALL	DC MOTOR
14	1-LC0510-000	ALL	HI/LOW SPEED SWITCH ASSEMBLY
15	1-089507-000	ALL	SCREW - GEAR DRIVE
16	2-LC0430-000	ALL	GEAR DRIVE ASSEMBLY
17	1-LC0455-000	ALL	GEAR RETURN SPRING
18	2-LC0650-000	ALL	PCB SELF PROPELLED
19	1-LC0035-600	ALL	ROLLER
20	1-LC0070-000	ALL	HANDLE RELEASE PEDAL
21	1-LC0071-000	ALL	HANDLE RELEASE PEDAL SPRING
22	1-LC0610-600	ALL	POWER CORD
23	1-JC0290-000	ALL	MOTOR ASSEMBLY
24	1-881130-000	ALL	GROMMET
25	1-881060-600	ALL	PIVOT SEAL
26	1-920906-000	ALL	BULB #906
27	1-720380-000	ALL	BELT, GUIDE CLIP
28	1-JC0245-600	ALL	EXTENSION WAND
29	2-JC0255-600	ALL	DUST BRUSH ASSEMBLY
30	1-JC0250-600	ALL	CREVICE TOOL
31	2-UTT000-000	ALL	TURBO TOOL





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Part Listing / Price List

ltem	Part Number	Models To Fit	Part Description
32	1-790655-600	ALL	CORD HOOK
33	1-910298-000	ALL	HEIGHT ADJUSTMENT BUSHING
34	1-912495-000	ALL	ENABLE MICRO SWITCH
35	1-LC0025-000	ALL	SWITCH PEDAL
36	1-LC0010-	ALL	NOZZLE BASE ASSEMBLY
37	1-LC0005-	087900	NOZZLE COVER ASSEMBLY
	1-LC0005-BW0	087700	NOZZLE COVER ASSEMBLY
	1-LC0005-AL0	087600	NOZZLE COVER ASSEMBLY
	1-LC0005-BZ0	087500	NOZZLE COVER ASSEMBLY
38	2-LC0015-	ALL	NOZZLE GUARD ASSEMBLY
39	1-LC0240-000	ALL	LOWER HOSE
40	2-JC0010-600	ALL	UPPER HOSE ASSEMBLY
41	1-LC0046-000	ALL	DIRT CUP INLET GASKET
42	1-LC0048-000	ALL	DIRT CUP GASKET
43	1-210376-000	ALL	ROLLER AXLE PIN
44	1-LC0075-B00	ALL	BUMPER
45	1-LC0450-000	ALL	GEAR HOUING PIVOT CLAMP
46	2-LE0332-000	ALL	HANDLE LOCKING ASSEMBLY

