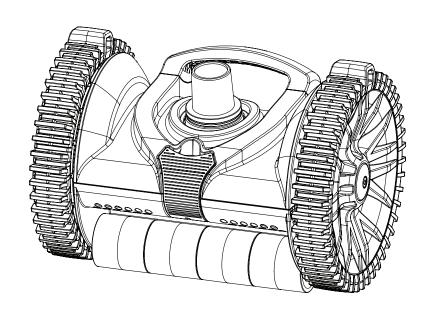


# **REBEL®**SUCTION-SIDE POOL CLEANERS



# INSTALLATION AND USER'S GUIDE

# IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS

Digital copies of all Rebel manuals can be found at www.pentair.com, or by scanning the provided QR code.

Se pueden encontrar copias digitales de todos los manuales de Rebel en www.pentair.com, o escaneando el código QR proporcionado.

Des copies numériques de tous les manuels Rebel peuvent être trouvées sur www.pentair.com, ou en scannant le code QR fourni.



#### i

## **CUSTOMER SERVICE / TECHNICAL SUPPORT**

**Hours:** 9:00AM to 7:00PM EST (6:00AM - 4:00PM PST)

Call: (800) 831-7133 Visit: www.pentair.com Fax: (800) 284-4151

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## **IMPORTANT WARNING AND SAFETY INSTRUCTIONS**



## Important Notice:

Attention Installer: This guide contains important information about the installation, operation and safe use of this product. This information should be given to the owner and/or operator of this equipment after installation of the pool cleaner.

Attention User: This manual contains important information that will help you in operating and maintaining this pool cleaner. Please retain it for future reference. Consult Pentair with any questions regarding this equipment.

**A** WARNING

Before installing this product, read and follow all warning notices and instructions which are included.

Failure to follow safety warnings and instructions can result in severe injury, death, or property damage. Call (800) 831-7133 for additional free copies of these instructions.

#### **Consumer Information and Safety**

This pool cleaner is designed and manufactured to provide many years of safe and reliable service when installed, operated and maintained according to the information in this manual. Throughout the manual, safety warnings and cautions are identified by the "A" symbol. Be sure to read and comply with all of the warnings and cautions.

#### HAZARDOUS SUCTION.



Do not play with cleaner or hose or apply to body. Can trap and tear hair or body parts. Hose can trip or entangle swimmers which could result in drowning.





SUCTION ENTRAPMENT, INJURY, AND **DROWNING HAZARD.** If your pool has a dedicated suction port ("vac port") for vacuuming or for an automatic pool cleaner, it must be covered when not in use. A spring loaded safety cover (a "vac port fitting") is included with your cleaner. Install it on the suction port to prevent entrapment and injury. If the

cover provided does not fit, purchase one that does from your local pool store and install it instead. The cover should conform to IAPMO SPS4-99A.



**Stop pump** before attempting to clean unit. Do not allow swimmers in pool while pool cleaner is operating.



To reduce the risk of injury, do not let children use or play with pool cleaner.



Do not allow swimmers in the pool while pool cleaner is operating. Hose can trip or entangle swimmers which could result in drowning.



Moving parts may injure hands or fingers. Stop pump before attempting to clean out pool cleaner head.

#### General Installation Information

#### **Pre-Installation Check List**

Before installing your cleaner, review and understand all warnings and safety information in this guide. Failure to follow these instructions or improper installation of the cleaner can result in damage to the pool finish or the vinyl liner, Pentair disclaims any liability for repairs or replacement to any of these structures or components of the customer's pool.

#### Before installing the cleaner in a vinyl liner pool:

Check liner closely for signs of deterioration or damage from age, chemicals, pool wall damage, etc. If any damage is found, have a qualified pool professional make all the necessary repairs. Also, if there are stones, roots, etc., under the liner, remove them before installing the cleaner.

#### Before installing the cleaner in a gunite pool or a pool that is partially or completely tiled:

Repair loose tiles and tighten any loose light rings.

#### Before installing the cleaner, clean your filter system:

Make sure you have cleaned the filter, including backwashing, rinsing, and emptying all baskets. A clean system is necessary for proper cleaner operation and coverage.

#### Before installing the cleaner, understand cleaner coverage:

The cleaner is designed to rid your pool of debris in approximately 4-6 hours. Less time could be needed, depending on the pool size. The cleaner was not designed to automatically clean steps or swimouts or to work under a solar cover. It was also not designed to do initial cleanup for a new pool or when opening your pool for the season.

#### AFTER installing the cleaner, make sure the cleaner is operating correctly:

The cleaner may need some minor adjustments to make sure it is operating properly so there is no damage to the pool finish. Certain vinyl liner patterns are particularly susceptible to surface wear, pattern removal, ink rubbing off of, or serious scratches to the pattern caused by objects coming into contact with the vinyl surface, including automatic pool cleaners. Pentair is not responsible for any pattern removal, abrasions or markings on vinyl liners.

## **IMPORTANT WARNING AND SAFETY INSTRUCTIONS**

# Disclaimer of Liability About your Pool and Cleaner

There are a multitude of factors that contribute to the life of your pool. The pool cleaner is a very passive product that will have no impact on pool life.

Please be aware that over time, deterioration, discoloration and brittleness of any pool finish can be caused separately by, or in combination with, age, an imbalance in pool water chemistry, improper installation and other factors. Suction side pool cleaners, such as the pool cleaner, will not remove or cause wear on "good" pool plaster. In fact, the opposite is true—pool plaster will eventually cause wear on the cleaner.

The same situation holds true for vinyl-lined in-ground swimming pools, because vinyl liners are also affected by the environment and factors such as pool water chemistry, sunlight and the pool's surroundings. Therefore over time, vinyl can become brittle and weak. In addition, vinyl-lined pools are affected by the workmanship, composition and installation of the liner and the workmanship and quality of construction of the supporting walls and pool base. These are all factors which can contribute to liner failure. The existence of any of these type of conditions in your pool is not caused by the use or operation of the pool cleaner. The manufacturer disclaims any liability for repairs or replacement to any of these structures or components of the customer's pool.

The pool owner must assume all responsibility for the condition and maintenance of the pool's surface, water and deck.

Before the cleaner is installed, please take a moment to record the serial number. This number is located under the rear handle of your cleaner. You will be asked for this number when you contact our Technical Support Department.

## SAVE THESE INSTRUCTIONS

## PRE-INSTALLATION

### **Pool Preparation**

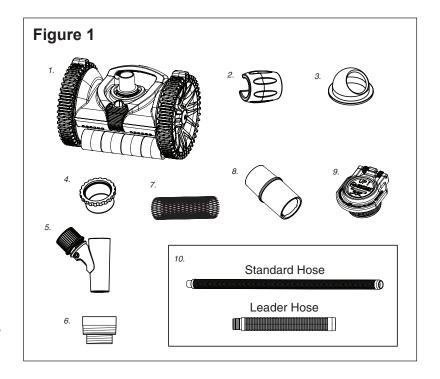
Before installing the cleaner, your pool should be clean and algae-free so as to not inhibit the cleaner's traction. If necessary, make the following preparations before proceeding:

- 1. Chemically balance the pool water.
- 2. Brush pool and let the debris settle.
- 3. Hand vacuum thoroughly.
- 4. Clean filter and pump strainer basket.

## **Cleaner Components**

Remove the cleaner and all parts from the box. Check to be sure all components are included.

- 1. Cleaner Body
- 2. Hose Float
- 3. Eyeball Diverters (2)
- 4. Valve Cap
- 5. Regulator Valve
- 6. Threaded Compression Adapter
- 7. Hose Protector
- 8. Flow Gauge
- 9. Vacuum Line Wall Fitting
- 10. Hose Set 13 Sections
  - ---12 Standard Male/Female Hoses
  - ---1 Leader Hose



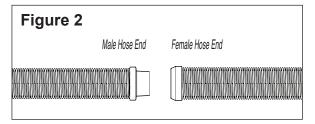
## **ASSEMBLING THE CLEANER**

The cleaner body is shipped in one piece, making cleaner assembly a simple and quick process.

## **Hose Assembly**

For best results and to maintain proper operation, use only original Pentair parts and hoses.

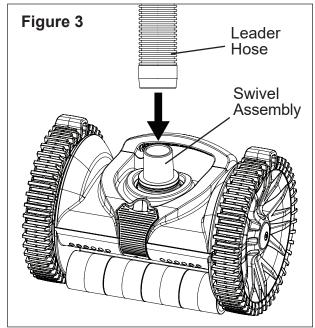
1. To connect the hose sections, wet the ends in the pool water, then twist and push the female ends onto the male ends.

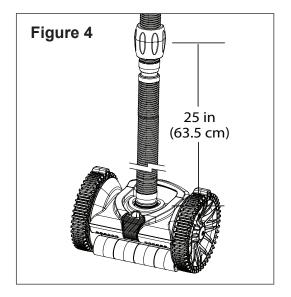


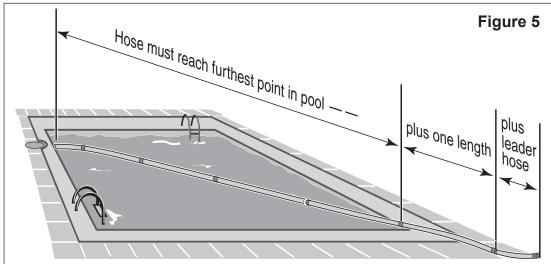
2. Connect the leader hose to the cleaner swivel. See **Figure 3**.

**Note:** The leader hose is 21 inches (53.3 centimeters) in length and shorter than the other sections included in the hose set. The leader hose is also marked with a red sticker. Failure to use this leader hose section will hinder cleaner performance

- The hose should reach from where the cleaner is connected to the farthest point of the pool, plus one section and the leader hose.
- 4. Install the hose float onto the second length of hose. The float should be placed 25 inches (63.5 centimeters) above the cleaner. See **Figure 4**.
- 5. Make sure that all connections are snug.
- 6. The overall length of hose needed will be determined by the distance from the point at which you attach the hose to the suction port to the furthest point in the pool, plus one length and the leader hose. Refer to **Figure 5**.







## INSTALLING THE CLEANER

#### Standard Installation

The cleaner is designed to work in a wide variety of swimming pools. Both the standard in-skimmer installation and optional vacuum line installation are covered in this section. Check to see which most closely fits your pool configuration and follow the directions.

**Note:** Depending on the particular features of your pool, the valve cap for the regulator valve may not be needed.

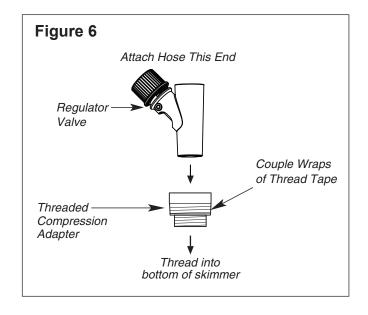
- 1. Turn the pool pump off.
- 2. Close the main drain and all suction lines, except the line from the skimmer to which the cleaner will be connected.
- Remove skimmer basket.
- 4. Thread the compression adapter into the vacuum connection in the bottom of the skimmer. See **Figure 7**.

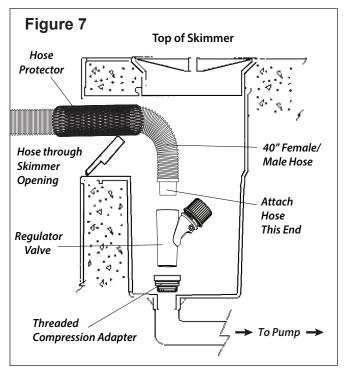
**Note:** Use two wraps of thread seal tape around threads to ensure easy removal.

- Press the regulator valve into the compression adapter. The valve's adjustment knob should be pointing up.
- 6. Place cleaner into the pool. Turn it side to side and front to back to release any trapped air, allowing the cleaner to sink to the floor of the pool. Continue to feed the hose vertically down into the pool until it is completely filled with water and purged of air.

**Note:** If air is pulled into the pool plumbing it may cause your pump to lose prime.

- 7. Slide the hose protector into position on the hose to prevent the hose body from rubbing against the skimmer wall.
- Insert the end of the hose through the skimmer opening and connect the hose directly onto the regulator valve. See Figure 7.





### **Optional Vacuum Line Installation**

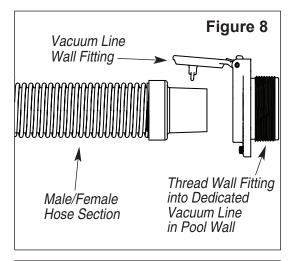
We highly recommend the use of the regulator valve to balance water flow between the cleaner and the skimmer. Install the regulator valve in the skimmer when attaching the cleaner to a dedicated vacuum line.

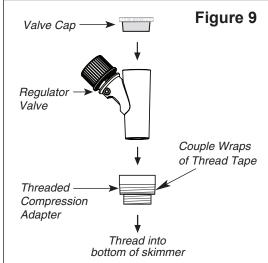
- 1. Turn the pool pump off.
- Close the main drain and all suction lines, except the lines from the skimmer and the vacuum line to which the cleaner will be connected.
- 3. Thread the vacuum line wall fitting into the end of the dedicated vacuum line.
  - **Note:** Use two wraps of thread seal tape around the threads to ensure easy removal.
- 4. Place the cleaner (with the hose attached) into the pool. Turn it side to side and front to back to release any trapped air, allowing the cleaner to sink to the floor of the pool. Continue to feed the hose vertically down into the pool until it is completely filled with water and purged of air.

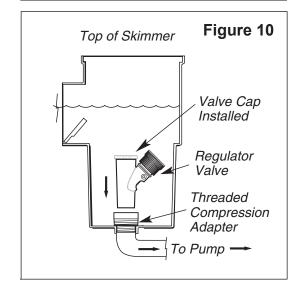
**Note:** If air is pulled into the pool plumbing it may cause your pump to lose prime.

- 5. Insert the male hose end of the last hose section directly into the vacuum line wall fitting. See **Figure 8**.
- 6. Thread the compression adapter into the vacuum connection in the bottom of the skimmer.
- 7. To prevent water from flowing through the top of the regulator valve, fasten the valve cap onto the top of the valve (See **Figure 9**). This activates the regulator valve and assures that an accurate amount of water (28 GPM) will flow through the vacuum line and the cleaner. Without the valve cap, the regulator valve and the cleaner will not function properly. See **Figure 10**.
- 8. Press the regulator valve into the compression adapter.

After completing the installation, turn the pool pump on. Allow the pump to run for a couple of minutes to be sure all air cycles out of the system.

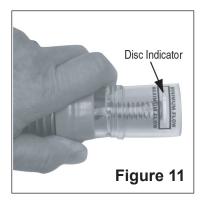






#### Adjusting Flow to the Cleaner With the Flow Gauge

- 1. Turn the pool pump off.
- Disconnect the cleaner from the leader hose and connect the flow gauge.
   Note: Make sure the hose remains submerged to prevent suction of air.
- 3. Turn the pump on.
- 4. Turn the regulator valve adjustment knob clockwise to increase flow or counterclockwise to decrease flow, until the disc indicator in the flow gauge settles between "Maximum" and "Minimum" flow. See Figure 11.
- 5. Turn the pool pump off and remove the flow gauge and reconnect the cleaner.
- 6. Lower the cleaner in to the pool and allow it to drop to the pool floor.
- 7. Turn the pool pump on.



#### Calculating Cleaner Speed (RPM) Without the Flow Gauge

If you do not have the flow gauge originally included with your cleaner, following the steps below will allow you to calculate the cleaner speed and adjust RPM as needed.

- While the cleaner is running, bring the cleaner up to just beneath the pool's water surface.
   Note: Be sure to keep the cleaner submerged while the pump is operating. This prevents the cleaner from pulling air into the pool system.
- 2. Count the number of full rotations made by the wheel over a period of one minute. The number of rotations will give you the revolutions per minute; or RPM's. An easy way to be sure you are counting full rotations is by counting the number of times the wheel hump passes by the swivel assembly.
- For proper performance, this cleaner operates between 16-18 RPM.
   If the RPM is below 16 adjust the regulator valve (rotate adjustment knob clockwise) and repeat steps 1-2 until the RPM falls back into the optimal range.
  - If the RPM is higher than 18 adjust the regulator valve (rotate adjustment knob counterclockwise) and repeat steps 1-2 until the RPM falls back into the optimal range.

## **CLEANER ADJUSTMENTS AND OPERATION**

After installation, turn the pool pump on. The cleaner should be moving about the pool at a rate of 27 to 32 feet per minute. Be sure to check each of the following initial adjustments.

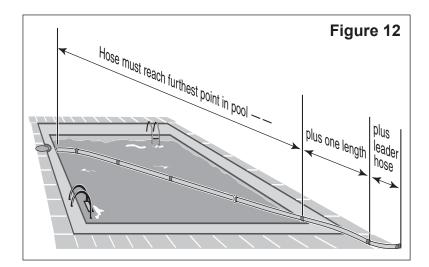
### **Hose Length**

**Note:** The pump must be on when you check the hose length. The hose contracts when the pump is operating and will be longer when the pump is off.

While the cleaner is operating:

- Position cleaner at the furthest point of the pool from where it's attached. Use a pool pole and brush to easily position the cleaner in the pool.
- 2. The hose should be long enough to reach the end of the pool, plus one hose section and the leader hose. See **Figure 12**.
- Remove any excess hose lengths from the middle of the hose assembly. This will ensure you do not alter the position of the hose float.
- 4. Save extra hose sections for use as needed for replacement.

**Note:** Turn pool pump off when adding or removing hose sections.



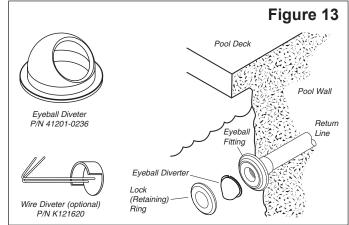
#### **Return Line Water Flow**

**IMPORTANT**: The water flow from your return line can push the cleaner's hose and affect its performance. It may cause the cleaner to steer away from the end of the pool where the return line is located, or it may cause your cleaner to remain in one section of the pool. To correct this, use the eyeball diverter included. If the eyeball does not fit your pool, use the wire diverter.

(P/N K121620) Wire diverter available for purchase from your Pentair dealer.

#### To install the eyeball diverter:

- 1. Ensure your pool pump is off.
- 2. Remove the eyeball from the return line at the pool by unscrewing the lock ring.
- Position the eyeball diverter that came with your cleaner.
- 4. Replace the lock ring and tighten. Make sure the opening of the eyeball diverter points in the proper direction before tightening fully.



## **Eyeball Diverter Positions**

Position the diverter opening to redirect the return line water flow so it does not interfere with the cleaner's movement. Try different positions to see which works best in your pool:

- Flow directed along the side of pool (the tile line).
- · Flow directed downward.
- Flow directed against the hose will help steer the cleaner away from obstructions such as stairs and ladders.

After installing the eyeball diverter, turn the pool pump on. The cleaner should begin moving across the pool floor vacuuming up debris in its path.

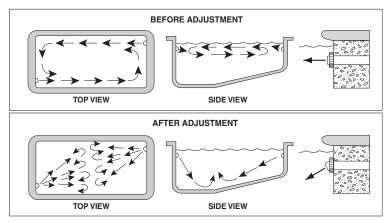


Figure 14

## **MAINTENANCE**

The cleaner requires almost no maintenance. Visually inspect your cleaner from time to time to make sure that:

- The turbine is moving freely and is not obstructed by debris. See "Removing Debris from the Turbine" below.
- The tires are not excessively worn. See **Figure 18** on the next page.

We recommend that you leave the cleaner in your pool, except during chemical shock treatments.

- During swimming it is easy to unplug the cleaner and pull it to one side.
- When storing the cleaner, do not coil the hose. Lay the hose flat in an area protected from direct sunlight.

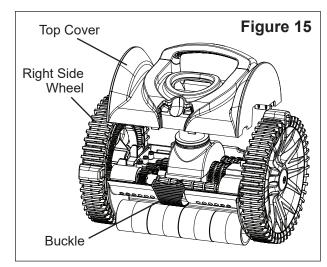
This cleaner's hose is specially designed to ensure optimum cleaner performance. Should replacement be required, insist on genuine Pentair cleaner hose.

## Removing Debris from the Turbine

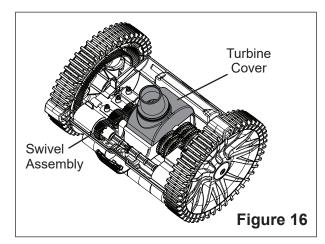
- 1. Be sure the pool pump is off. Remove the cleaner from the pool and disconnect the cleaner from the leader hose.
- Check to see if anything is clogged inside the cleaner. Do
  this by positioning the cleaner with the buckle facing you
  and attempt to rotate the right side wheel forward. If the
  wheel rotates smoothly there probably is no obstruction.
  If it won't rotate there is an obstruction.
- 3. Place the cleaner on a flat work surface. Open the buckle on the front of the cleaner by pulling it out and down. Lift the front of the top cover up and then firmly pull it forward. This will separate the top cover from the cleaner body and you will now be able to lift the top cover straight up from the cleaner body (see Figure 15). Set the cover aside.

**Note:** The top cover is designed to fit tightly so you may have to wiggle it a little.

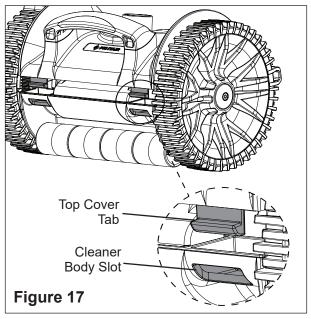
- 4. Pull the turbine cover straight up and off of the cleaner body. Set the turbine cover aside. See **Figure 16.**
- 5. Remove any visible obstructions from the turbine and turbine cover.
- 6. Replace the turbine cover with the swivel assembly oriented towards the front of the cleaner. See **Figure 16**.
- Visually inspect the rest of the cleaner and remove any debris that may be in the gears, drive shafts, swivel assembly, etc.
- 8. Repeat **step 2 (turning the right wheel)** to insure that the cleaner runs smoothly.
- 9. Place the top cover over the swivel assembly.
- Place the tabs on the back side of the top cover into the slots on the back side of the cleaner body (see Figure 17). Once these tabs are seated in the slots the front of the cover will fall into place.
- 11. Lock the top cover onto the cleaner body with the locking buckle on the front of the cleaner.



Removal of Top Cover



Swivel Assembly and Cleaner Internals



Cover Tabs and Corresponding Body Slots

#### Tire Replacement

After prolonged use it may become necessary to replace the cleaner's rubber tires. When the tire surface has worn into the tire's grooves the tire is in need of replacement. See **Figure 18.** 

#### To remove the cleaner tire:

- 1. Turn the pool pump off and remove the cleaner from the pool.
- 2. Disconnect the cleaner from the leader hose.
- 3. Place the cleaner on a flat work surface and fold the tire off of the wheel from top to bottom.

**Note:** Remove the tire by hand. Using other objects (screwdrivers, Allen keys, etc.) to remove the tire may damage the wheel.

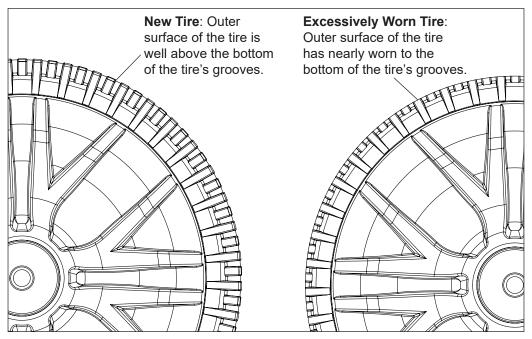


Figure 18

#### To install the replacement tire:

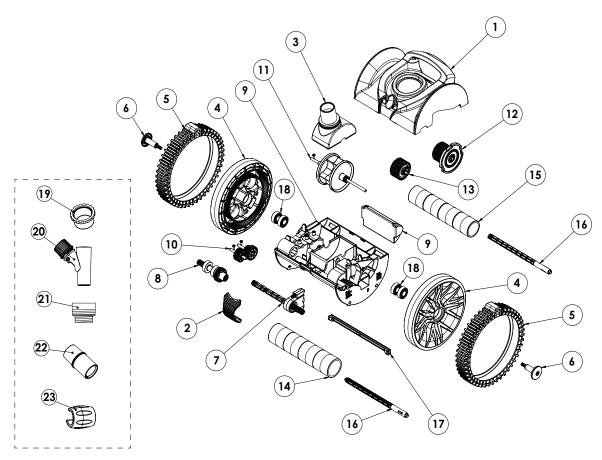
- 1. Place the cleaner on a flat work surface and seat the top of the rubber tire onto the top of the wheel. Be sure that the back lip of the tire is resting flat on the inside edge of the wheel.
  - **Note:** Replace the tire by hand. Using other objects (screwdrivers, Allen keys, etc.) to replace the tire may damage the wheel.
- 2. Stretch the bottom of the tire over the bottom of the wheel. Be sure that the back lip of the tire is resting flat on the inside edge of the wheel.
- 3. Fold the back lip of the tire onto the back of the cleaner wheel along the entire cleaner wheel. The tire should lie flat on the top surface of the wheel.

## **TROUBLESHOOTING**

Because of the individual characteristics of your pool, some additional adjustments may be required to get the best performance from your cleaner. Use the following information to resolve possible issues.

PROBLEM	CORRECTIVE ACTION	
Cleaner is not moving or is moving too slowly.	Check flow with flow gauge included or by calculating the cleaner RPM and adjust the flow if necessary using the regulator valve. See page 5.	
	Check for debris inside the cleaner itself. See page 8.	
	Check to be sure the pump has primed. Check for leaks in the system that may prevent proper priming.	
	There may not be enough flow through the system. The filter may need backwashing	
	Check to be sure that the main drain and all suction lines are closed, except for the vacuum or suction line to which the cleaner is attached.	
	Check for obstructions in the system (e.g. debris in the filter, pump basket or pump impeller).	
	Pool pump and filter system may be too small to provide proper water flow. Consult your pool professional.	
Cleaner's right wheel will not turn when rotated by hand.	Check for obstructions inside the cleaner itself. See page 8.	
Cleaner stays in one end of the pool.	Check flow with flow gauge included or by calculating the cleaner RPM and adjust the flow if necessary using the regulator valve. See page 5.	
	Check the return line water flow and redirect as necessary with the included eyeball diverter. See page 7.	
	Check that hose is long enough to reach the furthest point in the pool. See page 6.	
	Check for proper hose float placement. The float may be in the wrong position. See page 2.	
	Be sure that the swivel assembly (at top of cleaner) rotates smoothly. If not, the swivel assembly may be dirty and require cleaning.	
Cleaner climbs the wall too much or climbs out of pool.	Check flow with flow gauge included or by calculating the cleaner RPM and adjust the flow if necessary using the regulator valve. See page 5.	
Cleaner won't climb the pool walls.	Check to be sure that the cleaner tires are not excessively worn. See page 9.  Excessively worn tires will not provide the grip necessary for your cleaner to climb pool walls.	
	Check flow with flow gauge included or by calculating the cleaner RPM and adjust the flow if necessary using the regulator valve. See page 5.	
	Check to be sure that the leader hose has been installed and is in the correct location. See page 2.	
	Check for proper hose float placement. The float may be in the wrong position. See page 2.	
Cleaner stays on the main drain.	Check to be sure that main drain is closed. May need assistance from a pool professional.	
	Check to be sure a main drain grate is installed.	
Cleaner falls on its side and takes too long to recover.	Check for proper hose float placement. The float may be in the wrong position. See page 2.	
	Check to be sure that the leader hose has been installed and is in the correct location. See page 2.	
	Check that the hose is long enough to reach the furthest point in the pool. See page 6.	
	The return eyeball fittings may be pushing the cleaner hoses away. See page 7.	

# **REPLACEMENT PARTS**



Item	Description	Part No.
1	Top Cover	360477
2	Buckle Kit	360284
3	Swivel Kit	360453
4	Wheel	360480
5	Tire	360482
6	Wheel Hub	360483
7	Left Drive Kit	360289
8	Right Drive Kit	360290
9	Chassis	360485
10	Drive Gear Kit	360292
11	Turbine Kit	360293
12	Cam	360294
13	Cam Gear Kit	360295
14	Front Roller Kit	360296
15	Rear Roller Kit	360297
16	Roller Bar	360487
17	Wear Bar Kit	360299
18	Bearing	360492
19	Valve Cap	41200-0211

Item	Description	Part No.
20	Regulator Valve	41200-0213
21	Threaded Compression Adaptor	K12079
22	Flow Gauge	41200-0212
23	Hose Float	360300
-	Vacuum Line Wall Fitting	GW9530
-	Eyeball Diverter (Qty. 2)	41201-0236
-	Hose Protector	K12465
-	Hose Set	K01213
-	Leader Hose	360488
- Large Hump Tire		360490
- Long Run Cam		360327
-	Replacement Head	360486
-	Tune Up Kit (items 4-8 and 18)	360517

## WARRANTY INFORMATION

Pentair provides a LIMITED WARRANTY on pool products. An EXTENDED WARRANTY is also available, after registration requirements are met. See below for specific terms and conditions for the product warranty.

**LIMITED WARRANTY:** Pentair warrants the product to be free from defects in material and/or workmanship for a period of sixty (60) days from the original date of purchase.

**EXTENDED WARRANTY:** Pentair warrants the product to be free from defects in material and/or workmanship for a period given in the table below, from the original date of purchase.

To receive a product Extended Warranty, complete the steps below within sixty (60) days of installation:

- 1. Register this product at www.pentair.com/registration.
- 2. Provide a copy of the sales receipt.

Product	Limited Warranty	Extended Warranty
Rebel Cleaner	60 Days	2 Year*
Product Component	Warranty Term	
Tires	60 Days	
Rollers	60 Days	

(\*) - TradeGrade Product: This product or component must be purchased from a retail store (brick and mortar), pool builder or pool service company to qualify for an extended warranty. If purchased online this product or component will only recieve a 60-day warranty.

#### 3-YEAR WARRANTY ON SELECT BUNDLED PRODUCTS

Select products are eligible for a 3-year extended warranty when purchased on the same invoice and installed at the same time. This applies to purchases and qualified installations of a minimum of a pump and filter, and one or more of the following: heater, heat pump, control system, automatic cleaner, lighting, salt chlorine generator or UV sterilizer.

If any product within a bundle is ineligible for the bundled warranty coverage, or does not meet the applicable requirements covered above, then all products within the same bundle will be disqualified from receiving the three (3) year bundled warranty coverage, and all products will only receive their individual extended or limited warranties.

Visit <u>www.pentair.com/warranty</u> for the latest product warranty information.

# **NOTES**

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