



Prowler™ 710

Robotic Inground Pool Cleaner



Installation and User's Guide

IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS
SAVE THESE INSTRUCTIONS

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IMPORTANT SAFETY PRECAUTIONS



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 Water with any questions regarding this equipment.



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

The Prowler™ 710 pool cleaners are 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 “” symbol. Be sure to read and comply with all of the warnings and cautions.



DANGER — Risk of electrical shock or electrocution.



The electrical supply to this product must be installed in accordance with the National Electrical Code and all applicable local codes and ordinances. Improper installation will create an electrical hazard which could result in death or serious injury to pool or spa users, installers, or others due to electrical shock, and may also cause damage to property.

Always disconnect the power to the cleaner before servicing. Failure to do so could result in death or serious injury to serviceman, pool users or others due to electrical shock. Read and follow the specific instructions inside this guide.



WARNING — Hazardous suction. Do not play with cleaner or cable or apply to body. Can trap and tear hair or body parts. Cable can trip or entangle swimmers which could result in drowning.



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



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



CAUTION — 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.



CAUTION — Before installing the cleaner, understand cleaner coverage: The cleaner was not designed to automatically clean steps or to work under a solar cover. It was also not designed to do initial cleanup for a new pool installation.



CAUTION — The unit must be supplied through a residual current device (RCD) having a rated operating current not exceeding 30mA.

- The connection to the branch circuit should be consistent with the local and National Electrical Code.
- Mishandling the unit can result in leakage of lubricants.
- If the supply cord is damaged, it must be replaced by a licensed or certified electrician or a qualified pool serviceman in order to avoid hazards.

Section 1

Introduction

The Prowler™ 710 Overview

Automatically clean your pool in 60 to 90 minutes or less

The fastest and most effective robotic cleaner in its class, the Prowler™ 710 features true “plug and play” convenience. It operates totally independently of your pool’s circulation system to cover and clean any dimension, form, or shape of inground pool up to 50 feet in length. A Jet Drive propulsion system with a single, powerful motor drives the cleaner and enables the cleaner to roll along floors, up inclines to the waterline so long as there is an adequate floor-to-wall angle (most vinyl lined pools) or radius of about 6 inches – from beginning of radius to end – (most hard surface pools) in 60 to 90 minutes or less.

Scrubs, vacuums and filters your entire pool

The Prowler™ 710 works while you relax, freeing you from the drudgery of manual pool cleaning and the drawbacks of more cumbersome and costly automatic cleaners. The Prowler™ 710 has a patented built-in pump motor which powers the hydroscrubbing jets (jet streams of water). The hydroscrubbing jets stir up dirt and debris for easy vacuuming by the cleaners’ suction power without any attention from you. Plus, the Prowler™ 710 won’t get stuck by ladders and other underwater obstacles.



Prowler™ 710

General Features

The Prowler™ 710 features three-way cleaning performance:

- Dual pressure wash jets lift sand, silt and algae off floors and walls – including surface pores where brushes can't reach.
- Powerful vacuum action removes fine particles and larger debris.
- Internal filtration system removes contaminants and bacteria as small as two microns.
- No installation, no booster pump, no hoses, and fully automatic.

Additional Features:

Time and energy-saving features:

- Reduces your filtration system's run time up to 25%.
- Independently filters algae and bacteria.
- Cleans and hydroscrubs along floors, up inclines to the waterline so long as there is an adequate floor-to-wall angle (most vinyl lined pools) or radius of about 6 inches – from beginning of radius to end – (most hard surface pools).
- Vacuums all types of debris.
- Cleans any shape or type of pool in 60 to 90 minutes or less.
- Entire cleaner *and* key components are certified to UL standards for safety by ETL.
- Filter bag provides more than three times the capacity of other cleaners to greatly extend the time between cleanings.

Section 2

Set-up

The following general information describes how to set-up your Prowler™ 710 robotic pool cleaner. Carefully read the following so that you are fully aware of all the capabilities and features this cleaner has to offer.

NOTE: Before setting up this product, read and follow all warning notices and instructions starting on page ii.

Introducing your new Prowler™ 710 Cleaner

Dear Customer, Congratulations! You have purchased one of the best pool cleaners that technology has to offer! Your new Pentair cleaner is a fully automatic, "robotic" in-ground pool cleaner with the most powerful water propulsion system available.

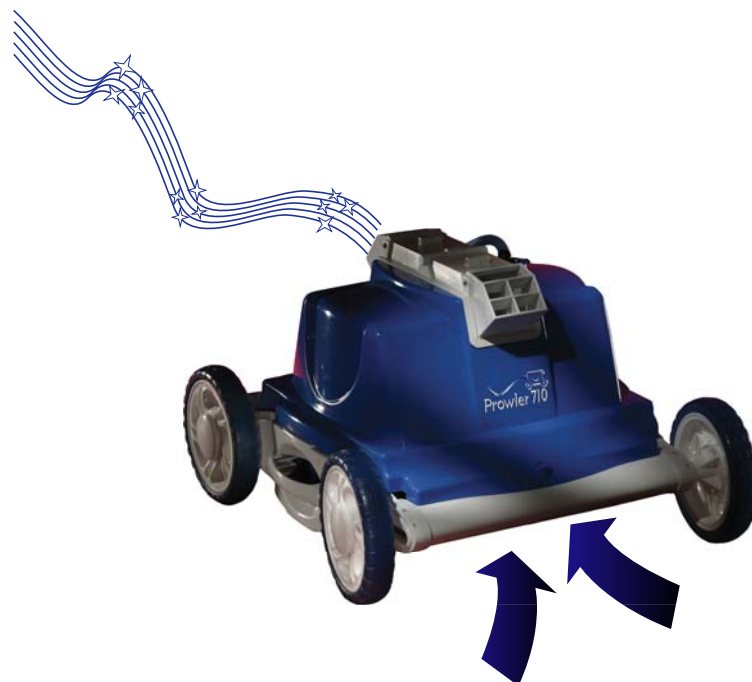
Your Prowler™ 710 automatic pool cleaner includes the following:

- Cleaning Unit & Cable
- Power Supply
- Fine Filter Bag
- Mesh Filter Bag

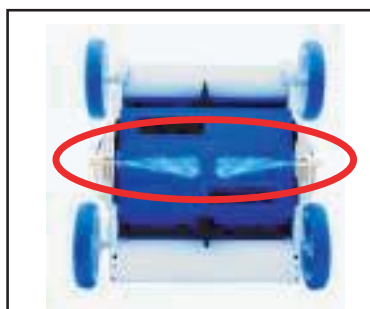


How your Prowler™ 710 Cleaner works

The patented built in pump motor provides the power for your cleaner's jet drive propulsion and hydroscrubbing jets. The hydroscrubbing jets, directed at the pool surface under your cleaner, stir up dirt and debris for easy vacuuming by the cleaner's suction power. All dirt from leaves to algae is collected in the internal filter bag for easy removal. A simple patented axle tilting system allows your cleaner to alternate between straight and curved movements, allowing the cleaner to clean the pool, in most cases, in 60 to 90 minutes or less! All you have to do is place your cleaner in the pool, turn it on and periodically clean the filter bag.



Jet Drive Propulsion



Hydroscrubbing Jets



Internal Filter Bag

Setting up your Prowler™ 710 Cleaner

Your new cleaner consists of two main parts:

A. Power Supply (Transformer) with Two-Hour Automatic Shut-Off, **Figure 1.**

- | | |
|-------------------------|--------------------------------------|
| ① Fuse Holder | ④ Forward/Reverse Timer Control Dial |
| ② Power Supply Cord | ⑤ Socket (for Floating Cable) |
| ③ Power (ON/OFF) Switch | ⑥ Reset Button |

NOTE: The Power Supply appearance may vary and features may be located in different positions than what is shown above.

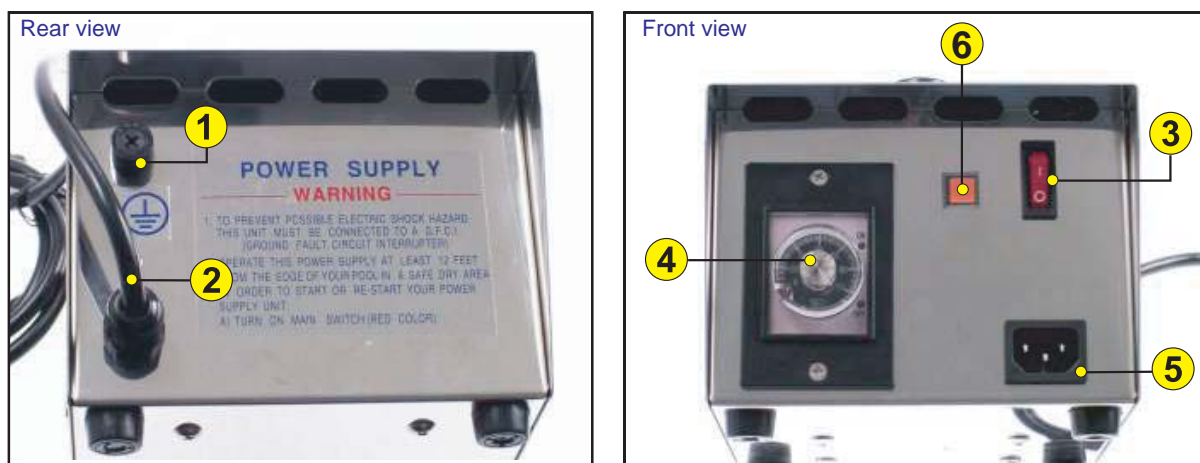


Figure 1.

B. Pool Cleaner with Floating Cable, **Figure 2.**

- | | |
|------------------------------|---------------------------------|
| ① Floating Cable | ⑥ Hydroscrub Tube* (Jet Nozzle) |
| ② Fixed Axle Housing | ⑦ Jet Valve Housing |
| ③ Turning Wheel Axle Housing | ⑧ Screw for Valve Extension |
| ④ Wheel(s) | ⑨ Valve Extension (Port) |
| ⑤ Handle | |

* **NOTE:** The Hydroscrub Tubes are hidden within the cleaner's body.

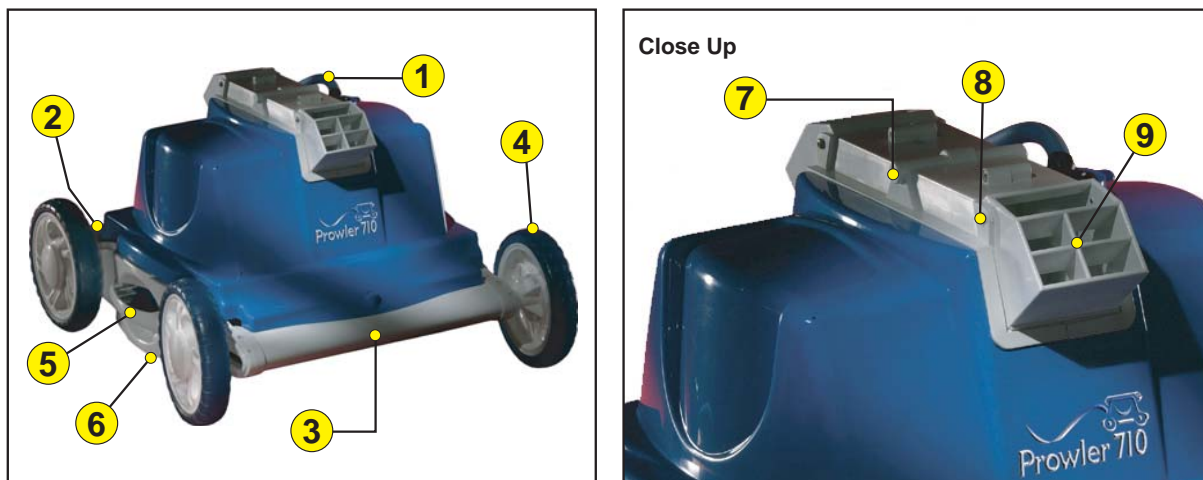


Figure 2.

Setting up the Power Supply

WARNING —Risk of electrical shock or electrocution.



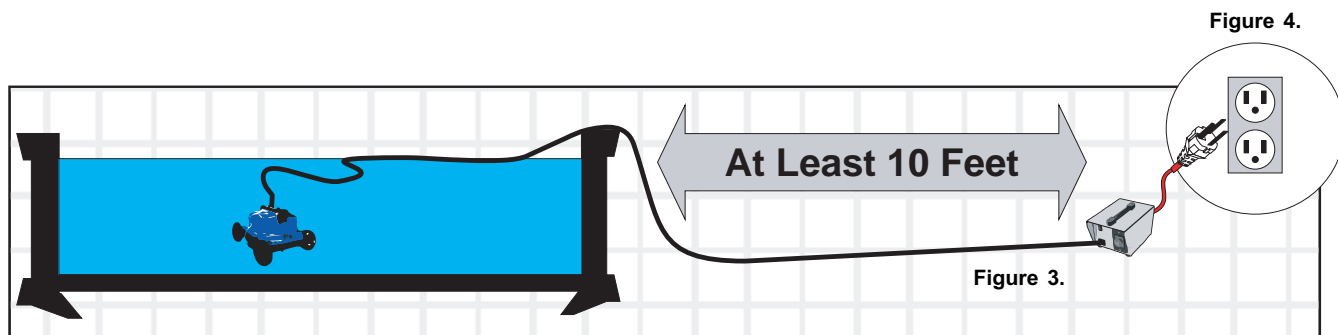
A ground fault current interrupter (GFCI) must be in place to protect your electric outlet. Failure to do so could create an electrical hazard which could result in death or serious injury to pool or spa users, installers, or others due to electrical shock, and may also cause damage to property.

The power supply MUST be placed a minimum distance of 10 feet away from the pool. Failure to do so could create an electrical hazard which could result in death or serious injury to pool or spa users, installers, or others due to electrical shock, and may also cause damage to property.

CAUTION — Never power the cleaner “ON” if it is not fully immersed in water.

This cleaner has an internal timer, which will automatically shut off the cleaner after 2 hours of operation. However, the Switch will remain in the “ON” position. To re-start the cleaner for another cycle, switch the Power Supply “OFF”, and then switch it back to the “ON” position and press the Reset Button. See [Figure 1](#).

1. Place the Power Supply in a dry, sheltered area at least 10 feet away from the pool, see Figure 3. Since the Power Supply is water resistant, not water proof, it should not be left out in the rain or placed in puddles of water.
2. Plug the Power Supply Cord into a 115V, three prong grounded GFCI outlet. If an outlet is not close enough, a grounded 115V extension cord may be used to connect to the nearest outlet, see Figure 4.



(Remember to keep the Power Supply at least 10 feet away from the pool.)

Placing the Cleaner into the Pool

⚠ WARNING —Risk of electrical shock or electrocution.



The power supply **MUST** be placed and a minimum distance of 10 feet away from the pool. Failure to do so could create an electrical hazard which could result in death or serious injury to pool or spa users, installers, or others due to electrical shock, and may also cause damage to property.

1. Place the cleaner in the pool upside down, gently tilting it side to side to allow any trapped air to escape. Once the air is removed, turn the cleaner right side up and allow it to sink to the bottom of the pool with the wheels down. See Figure 5.

NOTE: Your cleaner must be completely submersed in the pool water before it is switched on. If the cleaner does not sink it is because air is still trapped inside. Repeat Step 1.

2. Uncoil the Floating Cable that extends from the cleaner's body and spread it over the pool water surface as evenly as possible. If your pool is elongated (rectangular, oval, etc.), place the Floating Cable at the middle of the pool's length to allow adequate cable length to reach the entire pool. Make sure that the Floating Cable is not tangled or kinked. See Figure 6.
3. Plug your cleaner's Floating Cable into the Power Supply, see Figure 7. Be sure that the Power Supply ON/OFF Switch is in the "OFF" position.

Figure 5.

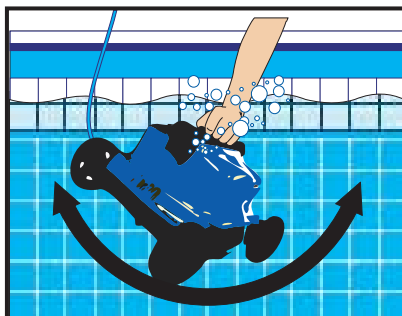
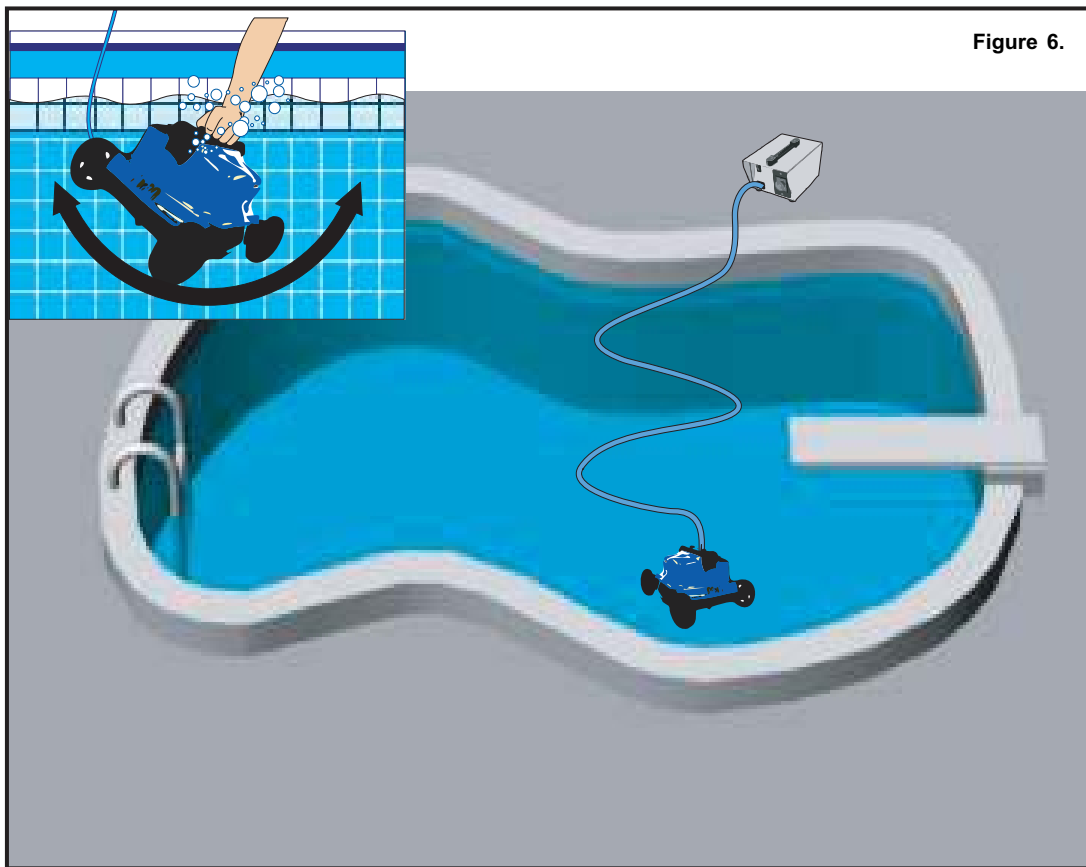


Figure 6.



(Remember to keep the Power Supply at least 10 feet away from the pool.)

Adjusting the Timing Cycle

The Time Control Dial located on the front panel of the Power Supply can be adjusted to allow more or less time between the cleaner's forward and reverse motion, see Figure 8.

Set your cleaner's Time Control Dial to 30 seconds. The goal is to have your cleaner move across your pool at its widest point, from one side to the other and wait at both sides for approximately 2 seconds before reversing. If this doesn't happen adjust the Time Control Dial accordingly.

NOTE: Turning the Time Control Dial clockwise will lengthen the time between reversals to a maximum time of 90 seconds. Conversely, turning the dial counter-clockwise will reduce the time between reversals.

Once the Time Control is set to your satisfaction, it does not need to be changed unless you use a different type of Filter Bag or there is an excessive amount of debris in your pool.

NOTE: The alternate Mesh Bag may cause the cleaner to cross your pool in less time and the Time Control should be adjusted accordingly.

Turn Power Supply switch to the “ON” position, see Figure 9 ①, then press the Reset Button, see Figure 9 ②.



Figure 7.



Figure 8.



Figure 9.

The Cleaning Motion in the Pool

The size of your pool, and the amount of debris in it, will determine the length of time required to clean the pool. The time required may vary up to two hours. If the cleaner typically reaches the waterline at each side as it is supposed to, but begins to slow down considerably (constantly reverses direction before reaching the sides of the pool) or is unable to climb the walls of the pool, it is sending a signal that it's time to clean the Filter Bag.

Removing the Cleaner from the Pool

⚠ CAUTION — Removing your cleaner by its Floating Cable may cause severe damage to the cable requiring costly repairs. Keep the cleaner on all four wheels to allow water to drain from its body properly.

After two hours, your cleaner will automatically turn itself off. Although not necessary, it is suggested to turn the Power Supply off by pressing the ON/OFF switch. See Figure 9.

Unplug your cleaner's Floating Cable from the Power Supply, see Figure 7. Gently pull your cleaner toward you using the Floating Cable. When your cleaner is within reach, remove it from the water using the handle only, see Figure 10.



Figure 10.

Cleaning or Changing the Filter Bag

1. Make sure that the Power Supply is turned “OFF” and that the cleaner’s Floating Cable is unplugged from the Power Supply. Place the cleaner on its back on a non-abrasive surface and release the two Lock Tabs, (located on the sides of the unit), see Figure 11. Using your thumbs, push the Lock Tabs away from the center of the cleaner to unlock the Bottom Lid Assembly one Lock Tab at a time, see Figure 12. Remove the Bottom Lid Assembly, see Figure 13.

NOTE: Rest you cleaner on a non-abrasive surface (i.e. towel, doormat, etc.) to avoid scuffing and scratching your cleaner.

2. Remove the Filter Bag from the bag support Wire Frames, see Figure 14. Turn the Filter Bag inside out, (the Fine Filter Bag has a soft felt surface on the inside), and wash off visible dirt using high pressure with a garden hose, or a faucet. Gently agitate the Bag in your hands to help remove fine particles. Continue wringing, cleaning and squeezing the Bag gently until rinse water is clear. Use of a washing machine, (cold water only), is recommended when visible dirt will not rinse off by other methods. **DO NOT USE DETERGENT or BLEACH! DO NOT MACHINE DRY!**

3. Turn the Filter Bag “right side out”, (felt surface on the inside), re-mount the Bag on the Wire Frames making sure that the Label on the Bag is centered on one of the long sides of the Bottom Lid Assembly, directly between the two U’s in the Wire Frames, see Figure 16. Pull the Bag toward the middle of each Wire Frame so that the Bag corners are snug against the corners of the Wire Frame. Tuck the excess Bag into the U-shaped section of the Wire Frames as shown in Figure 16.
4. Re-install the Bottom Lid Assembly. Make sure that neither debris nor the Filter Bag itself interferes with complete closure of the Bottom Lid Assembly. A locking sound from each Lock Tab will be heard when locked properly!

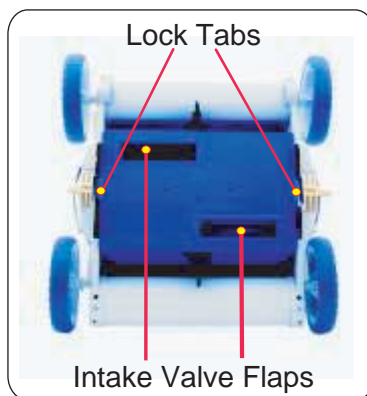


Figure 11.



Figure 12.

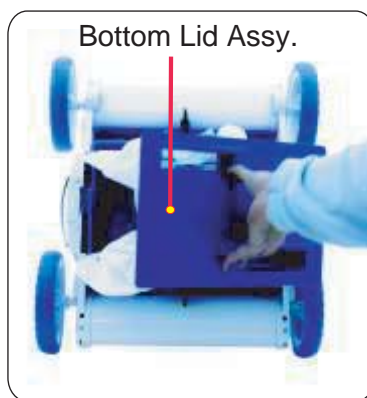


Figure 13.



Figure 14.

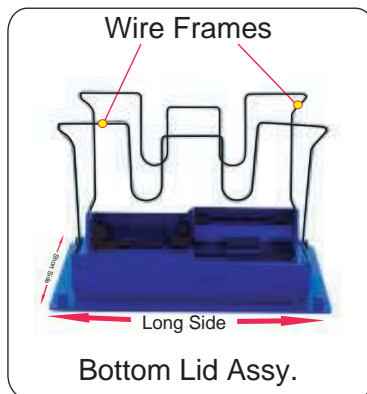



Figure 15.



Figure 16.

In-Season Storage

 **WARNING** — Do not allow swimmers in the pool while your pool cleaner is in the pool. Cable can trip or entangle swimmers which could result in drowning.

Do not leave your cleaner in the pool when not in use. Doing so, will reduce the life of your Filter Bag and cleaner. After removing your cleaner from the pool you should clean and re-install the Filter Bag. Then, rest your cleaner on all four wheels in a dry, shaded area along with its Power Supply and properly coiled Floating Cable.

Off-Season Storage

When the Pool Season is over, you should thoroughly clean the Filter Bag. Make sure that there is no water in your cleaner. Completely untangle and then properly coil the Floating Cable. Your cleaner and Power Supply should be stored in a dry, protected area away from freezing temperatures.



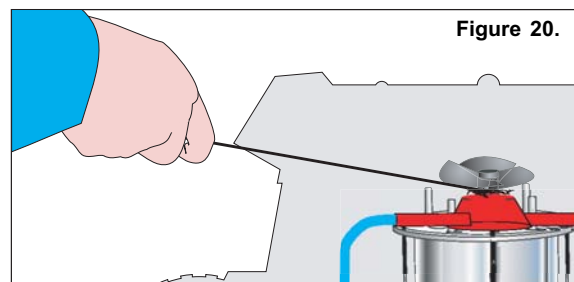
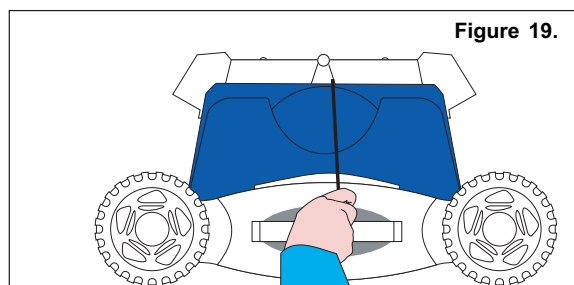
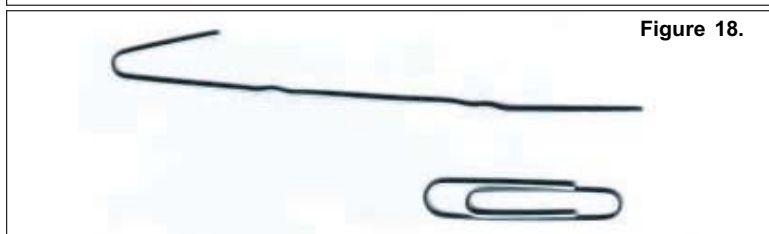
Section 3

Troubleshooting

Use the following troubleshooting information to resolve possible problems with your Prowler™ 710 pool cleaner.

Problem	Corrective Action
Slower motion or inefficient vacuuming.	<p>Check to see if the Filter Bag is thoroughly clean.</p> <p>FYI: The Fine Filter Bag is capable of filtering particles 20 times smaller than the naked eye can see. Therefore, thorough cleaning of the bag may be required!</p> <p>NOTE: Use the Fine Filter Bag to trap smaller debris such as algae, bacteria, sand and silt. Use the Mesh Filter Bag to trap larger debris such as leaves, acorns, twigs and pine needles. It may be necessary to rinse with high pressure water and wring the Filter Bag in a bucket of clean water. Rinse, wring, squeeze dry and repeat until the rinse water is clear.</p> <p>Check to see if the Intake Valve Flaps (Figure 11 on page 10) on the bottom of the cleaner are free to open and close. These Flaps should move easily to allow the entry of water and debris.</p> <p>If you are not satisfied yet, remove the bag, reinstall the Bottom Lid (without the Bag), and run it in the pool. If the cleaner moves quickly, this is an indication that your Bag is not clean enough, and you must repeat the cleaning instructions until the Bag is clean.</p>
Water flow from the hydroscrub jet tubes (Figure 2, Item 6) have no pressure or water coming out from them.	<p>Remove the Bottom Lid Assembly. Check clear vinyl tubing for obstructions, blockages and that each are securely connected to the Pump Motor Housing. If tubes are obstructed or blocked, then remove the tubing from the pump housing by gently pulling the tubing from the pump. The tube is not glued in place. After the tube is removed, you can clear blockage by running water through the tube using the pressure from a garden hose. Be sure to replace the tubing securely.</p>
Does not cover the entire pool.	<p>Adjust the timing cycle on the Power Supply so that the Pentair cleaner reaches the other side of the pool, (preferably to waterline), and remains there for approximately 2 seconds before changing direction.</p> <p>Check to see if the Filter Bag is clean and not clogged with debris. (Especially fine dirt).</p> <p>Check to see if the wheel rotation and axle movement is free of obstructions like hair, string or accumulated debris.</p> <p>Check to see if the Floating Cable has adequate length to reach all sides of the pool and is not tangled, or hooked, as this will limit the movement of the cleaner.</p>

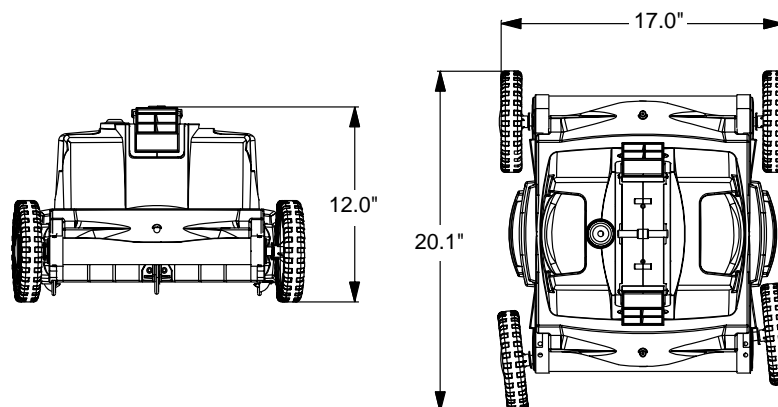
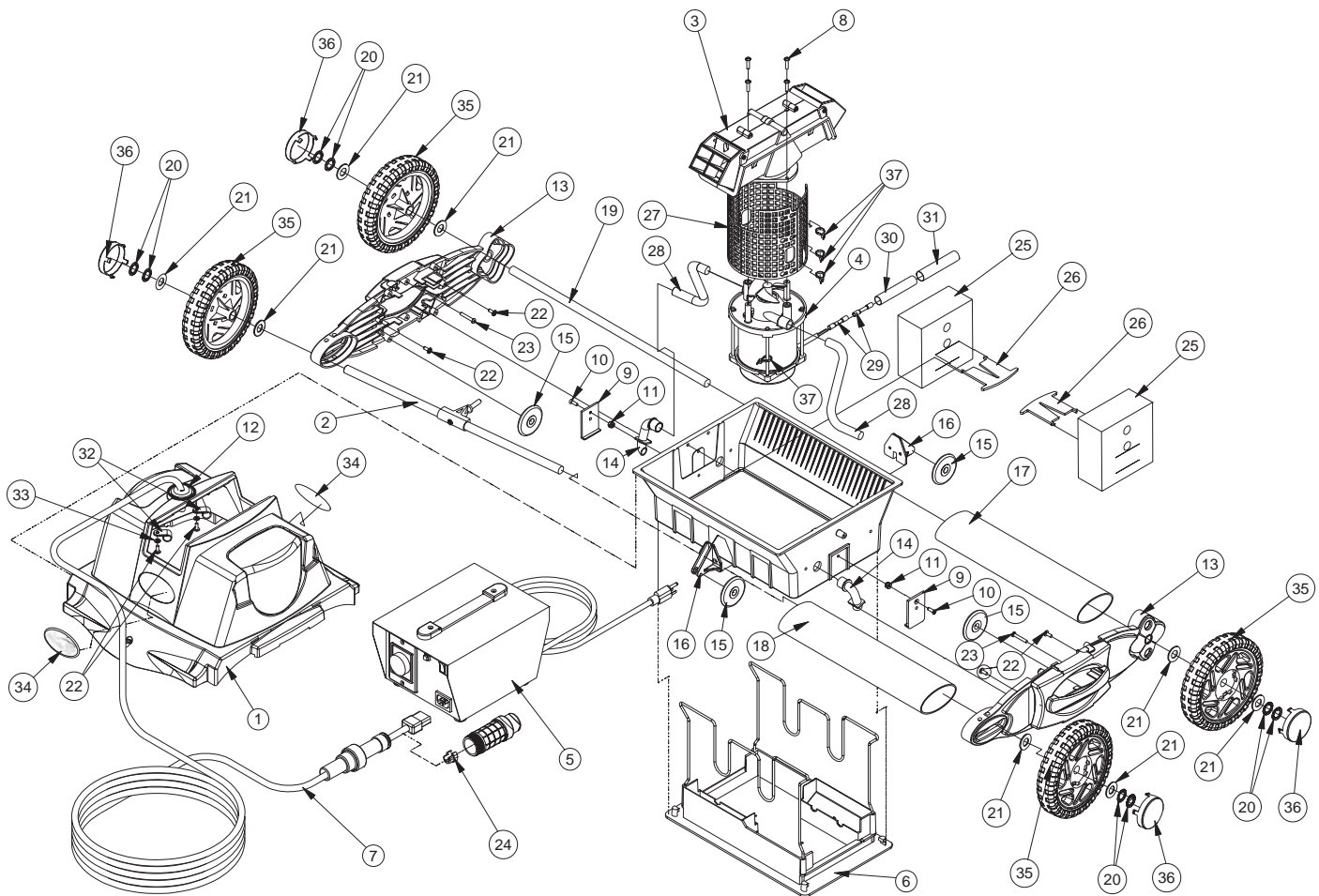
Problem	Corrective Action
Does not reverse direction.	<p>Take a garden hose with high pressure, spray into the Valve Housing at each Valve Port opening, (Figure 2, Item 9). This should free the Jet Valve System of any debris. If this does not solve the problem, firmly grab hold of both of your cleaner's Handles (Figure 2, Item 5) and forcefully dunk the cleaner in and out of the pool several times to flush out the dirt causing the problem. If debris is still lodged (such as sand or dirt) or there is debris wrapped around the Propeller the Jet Valve or between the Valve Flap and the Valve Housing wall, proceed below to "Cleaning the Propeller". If this still does not solve the problem, then use a Phillips head screwdriver to loosen each of the screws at the top of the Valve Housing (Figure 2, Item 7) that keep each side of the Housing together - by 1½ turns each (counterclockwise). Then repeat high pressure spraying into the Valve Housing. Retighten each screw 1½ turns (clockwise) to re-secure.</p>
Cleaning the Propeller.	<p>Remove Valve Extension Screws (Figure 2, Item 8) on one side of cleaner and respective Valve Extension Port (Figure 2, Item 9).</p> <p>Bend a common large paper clip into the shape of a hook (Figure 18 on page 15), and push the Valve Flap back with your finger to expose the Pump Motor Propeller. You may find debris like hair, string, or a small twig caught in the Propeller. Use your paper clip to hook or free the debris, and remove it (Figure 20 on page 15).</p>
Reverses before reaching the opposite end of the pool.	<p>Turn the Time Control Dial (located on the Power Supply) clockwise a few degrees to increase the time between reversals. Repeat if necessary.</p> <p>Check to see if the Filter Bag is thoroughly clean and installed properly.</p>
Waits too long at the side of the pool before reversing.	<p>Turn the Time Control Dial on the Power Supply counter-clockwise a few degrees. Repeat if necessary.</p>
Floating Cable is twisting.	<p>Your new cleaner was designed to clean most pools without issue, but some pool shapes may cause the Floating Cable to coil, or tangle. This cleaner operates in a systematic cleaning pattern that varies in nature. This may cause the Floating Cable to twist. For this reason, we have added a new feature to your cleaner. This patented feature will allow you to untwist your Cable easily. Disconnect the Power Supply Cord from the Power Supply, place your cleaner on the ground outside of the pool perpendicular to you, (Figure 19 on page 15). At the end of the Power Cable, located near the connection plug to the Power Supply, is a plastic handle "Swivel" (Figure 17 on page 15). Grab the handle firmly as shown in the illustration. Walk away from the cleaner while pulling the handle. This will cause the Cable to rotate within the plastic handle and force the Cable to untwist itself. For best results remember to pull the handle until the Cable is completely untwisted.</p>



Section 4

Replacement Parts

Prowler™ 710 Model



Replacement Parts List for the Prowler™ 710 Model

ITEM NO.	P/N's	DESCRIPTION	QTY.
1		BODY S-AS BLUE/BUE 300C WITH SLOT	1
2		SWITCHING WEDGE ASSY.	1
3	P12144	VALVE HOUSING ASSY.	1
4	P12141	PUMP MOTOR ASSY.	1
5	P12142	POWER SUPPLY	1
6		BOTTOM LID ASSY.	1
7	P12143	CABLE ASSY., 2 WIRE - 51 Ft., FLOATING 18 AWG	1
8	P12106	SCREW 8 x 11-16 PHIL PAN TYPE	4
9	P12149	LOCK TAB FINGER-ROLL	2
10		LOCK TAB S.S. SCREW 8-32 x 0.5	2
11		LOCK NUT 8-32 NYLON INSERT	2
12		SEALING GROMMET 0.375 ID x 1.375 OD	1
13	P12151	SIDE PLATE WITH JET BRACKET OPTION	2
14		TUBE FOR JET BRACKET	2
15		CENTER WHEEL 2 INC. BLACK	4
16		BRACKET FOR CENTER WHEEL	2
17		TUBE OVAL, BRIGHT WHITE 3 x 1.58 O.D., 12 INC. LG.	1
18		TUBE OVAL WITH ONE HOLE	1
19		AXLE, FIBER GLASS, 16.5 INC. LG, 0.5 INC. ROD	1
20	P12148	CLIP, S.S. RETAINING STAR	8
21		WASHER, NYLON, FLAT 1 INC. OD x 1-2 ID x 1-16	8
22		SCREW S.S. #6 x 7-16	6
23		SCREW 8 x 1.08 PHIL PAN HD 18-8	2
24		BUSHING, STRAIN RELIEF, HEYCO, WHITE	1
25	P12145	FOAM, AJ, TJ, PR	2
26		FOAM CLIP	2
27	P12146	FILTER SCREEN, JET UNITS (COMPLETE)	1
28	P12147	TUBING, VINYL CLEAR 5-16 ID x 1-2 OD X 1 Ft.	2
29	P12125	BUTT CONNECTOR, #SB16-14	2
30		HEAT SHRINK TUBING BLUE OR BLACK, 3 INCH	1
31	P12150	HEAT SHRINK TUBING BLACK, 4 INCH	1
32		P CLIP 3-8	2
33		S.S. WASHER 0.195 x 0.063	2
34		LABEL, DOME FOR BODY PROWLER™ 710	2
35		WHEEL, 6 INC. POLY-WHITE WITH TRANSP, TIRE	4
36		DISK, WHEEL COVER-DOME, WHITE	4
37		TIE, PLT PNDUIT, 1.51M INTERMEDIATE	4
		NOT SHOWN	
	P12139	MESH FILTER BAG	
	P12140	FINE FILTER BAG	

SAVE THESE INSTRUCTIONS.

Notes

