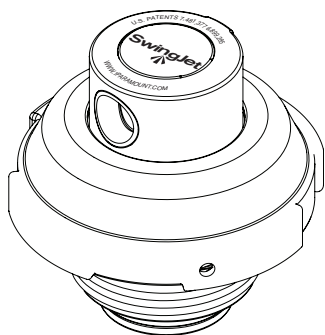




AUTOMATIC CIRCULATING SYSTEM INSTALLATION MANUAL



004-027-8809-00 R00 ECN1637 Publish 10/19/18

US and Foreign patents and patents pending see www.1paramount.com/about/patents/

295 East Corporate Place • Suite 100 • Chandler, AZ 85225
Toll Free: 1.800.621.5886 • Phone: 480.893.7607 • Fax: 480.753.3397
Paramount@1Paramount.com • www.1Paramount.com



Paramount
Pool Life. Simplified.

TABLE OF CONTENTS

EQUIPMENT AND PLUMBING SCHEMATIC.....	3
2 PORT VALVE SCHEMATIC.....	3
2 PORT WATER VALVE PLUMBING.....	4
3 PORT WATER VALVE PLUMBING.....	5
3 PORT VALVE SCHEMATIC.....	5
PLUMBING SWINGJET ZONES	6
PLUMBING SWINGJETS	6
PARAMOUNT MODULE ALIGNMENT GUIDE	7
SWINGJET INSTALLATION GUIDE	8

EQUIPMENT AND PLUMBING SCHEMATIC

The SwingJet is a multi-position wall return. It is adjustable to clean a 90 degree arc so it can be aimed to clean a desired area much larger than the standard stationary down jet. The SwingJet changes position by extending and retracting so it needs to be put on a zone of the water valve or the pump and will need to be cycled off and on to advance its position. The SwingJet has similar hydraulic characteristics as a 3/8" floor nozzle and will need 15 to 20 gpm per nozzle at 60 to 70 ft/hd to function properly.

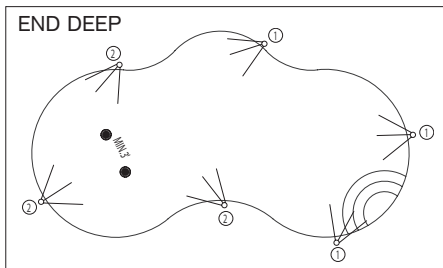
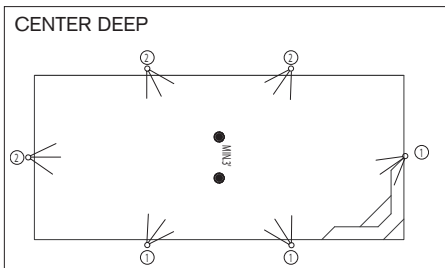
MULTI SPEED PUMPS

The Swing Sweep Jet/s may not retract or extend all the way on low speeds, but should start extending and retracting properly once the pump speed returns back to the high cleaning speed of 19 to 20 psi on the water valve or 25 psi or higher on the filter gauge on a clean filter if no water valve is used. The multi speed filter pump should run at the speed needed to produce at least 25 PSI on a clean filter for at least 2 hours for effective use of the SwingJet / Sweep system.

Note: Pools with cartridge filters, SwingJets are a precision ratcheting nozzle/s which reverses back and forth. It is important that when cleaning your filter you follow the steps below to eliminate debris from getting into the lines and equipment (including SwingJets, chlorinators, heaters, water features and water valves and back into the pool downstream from the filter).

1. Turn off the filter pump, open the filter air bleed at the top of the filter tank.
2. Open/remove the drain plug on the bottom of the filter (plumbing a two way valve to replace the plug can make this a time saving and easy thing to do).
3. Remove the lid from the filter. Using a hose, wash out the inside of the tank.
4. After the tank is clean, remove the filter elements and clean them thoroughly. Refer to the cartridge manufacturer's instructions for proper cleaning procedure.
5. When clean, replace the filter elements. Put the drain plug back / or turn off the two way valve (if installed), replace and seal the filter lid. Turn on the pump (never stand over any piece of equipment you have just worked on when turning on the pump). When water starts coming out of the air bleed close it.

2 PORT VALVE SCHEMATIC



VALVE PLUMBING SCHEMATIC 2 PORT WATER VALVE

1. WALL#1
2. WALL#2

Min. Pump Curve 60 GPM @ 60 TDH

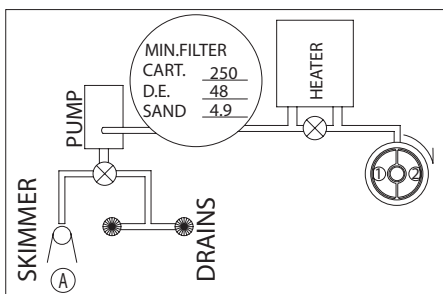
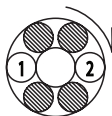
Min. Filter Size

36 SQ. FT. DE = 72 GPM

3.1 SQ. FT SAND = 60 GPM

200 SQ. FT. CARTRIDGE = 75 GPM

*SwingJets require a minimum 19psi at the water valve to operate properly.

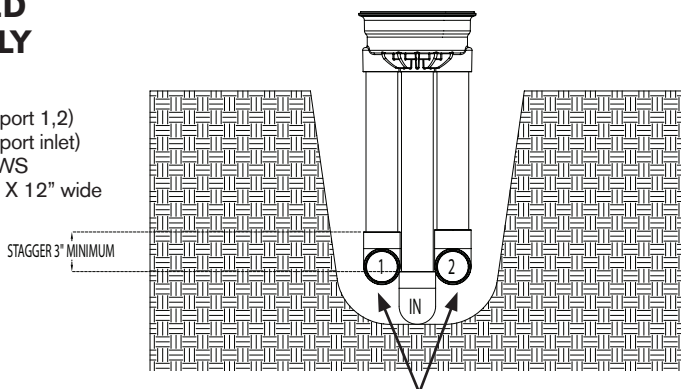


Additional features added to pool equipment such as in-line feeders, water falls, etc., may change the flow requirements. Changes in flow requirements may require a higher GPM pump and larger filtration.

2 PORT WATER VALVE PLUMBING

PARTS NEEDED FOR ASSEMBLY OPTION ONE

- (2) 2"X15" PVC PIPE (port 1,2)
- (1) 2"X18" PVC PIPE (port inlet)
- (3) 2" SLIP 90° ELBOWS
- Set in trench 15 " deep X 12" wide



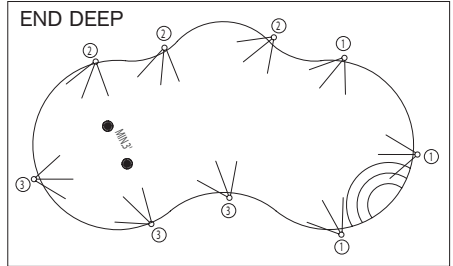
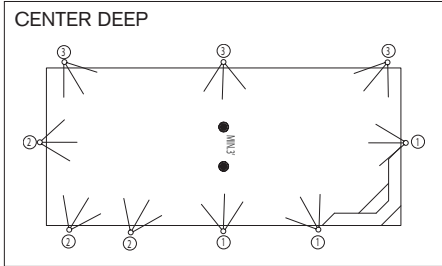
NOTICE: All pipe fittings **MUST** be staggered.

GLUING INSTRUCTIONS

1. Remove
2. Lift off dome (save O-ring)
3. Remove pressure gauge and knob from inside valve housing assembly
4. Pipes and valve base should be treated with primer
5. Make sure pipes are glued all the way into the stop. Be careful not to allow glue to run into module area.*
6. The center port is the inlet to the valve and should be approximately 3" longer than the perimeter pipes.
7. Allow 24 hour before pressure testing
8. Reposition o-ring in groove in the valve base.
9. Replace dome and V-Clamp and tighten until snug
10. Thread the pressure gauge to the top of the dome. Do Not Use Teflon Tape.
11. Pressurize with pool plumbing (do not exceed 35 psi)
12. Store the module assembly in a safe place and install after the pool has been started up.

* Pipes should be a minimum of 12" in length and should insure that valve be at least 6" above water level.

3 PORT VALVE SCHEMATIC



VALVE PLUMBING SCHEMATIC 3 PORT WATER VALVE

1. WALL#1 2. WALL#2 3. WALL#3

Min. Pump Curve

60 GPM @ 60 TDH

Min. Filter Size

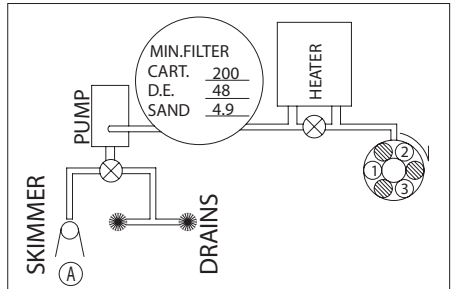
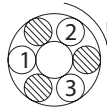
36 SQ. FT. DE = 72 GPM

3.1 SQ. FT. SAND = 60 GPM

200 SQ. FT. CARTRIDGE = 75 GPM

*SwingJets require a minimum

19psi at the water valve to operate properly.

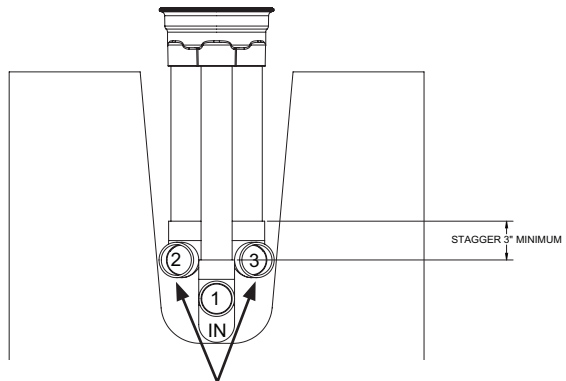


Additional features added to pool equipment such as in-line feeders, water falls, etc., may change the flow requirements. Changes in flow requirements may require a higher GPM pump and larger filtration.

3 PORT WATER VALVE PLUMBING

PARTS NEEDED FOR ASSEMBLY OPTION ONE

- (3) 2"X15" PVC PIPE (port 1, 2, 3)
- (1) 2"X18" PVC PIPE (port inlet)
- (4) 2" SLIP 90° ELBOWS
- Set in trench 15 " deep X 12" wide



NOTICE: All pipe fittings **MUST** be staggered.

For Gluing Instructions. See page 4

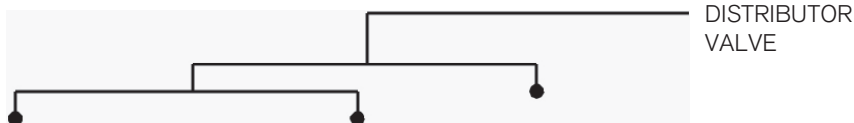
PLUMBING SWINGJET ZONES

It is ok to plumb SwingJets in a line or on a branch as shown in the following examples.

2 NOZZLES ON A BRANCH



3 NOZZLES ON A BRANCH



2 OR 3 NOZZLES IN A LINE



PLUMBING SWINGJETS

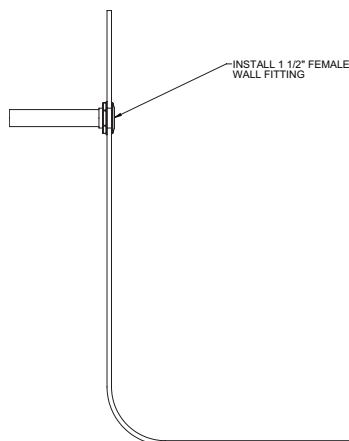
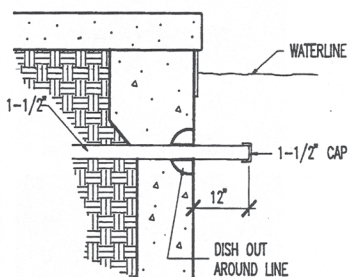
The Paramount SwingJet is designed to be used in standard 1 1/2" threaded return fittings. There must be a threaded return on the end of the return pipe as there is no slip style SwingJet to put them into the ID of pipe. Returns are set at different heights in different regions of the country. The norm 15 to 18 inches below bond beam height or 12 to 15 inches below water level on raised bond beams. As with any side wall product it can only clean in a line of site. If the area to clean is below a love seat, bench or other obstruction, it must be placed below the obstructions which might require a lower depth.

There are a few 1 1/2" threaded fittings that SwingJet will not fit in without modification like the Jacuzzi vinyl return, Waterway and A&A flush mount concrete returns. The flange on the inside at the bottom of the threads will need to be cut away with a 1 5/8" hole saw before installing the SwingJet. Be careful no to damage the threads when using the hole saw.

Concrete crew to cut out sufficient area around the 1 1/2" pipes for 1 1/2" threading to be installed.

SwingJet return pipes must be 6 inches from any radius on right angle in the pool wall or floor. SwingJet should be at least 12' below water level to prevent the jet from whirlpooling and drawing air into the pool water.

NOTE: All SwingJet 1 1/2" lines must be 90 (perpendicular) to the finished wall



PARAMOUNT MODULE ALIGNMENT GUIDE

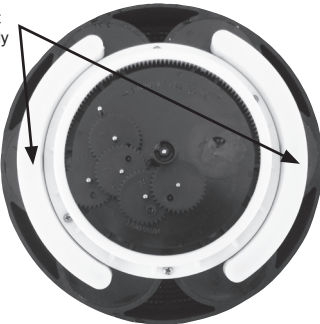
TO FUNCTION PROPERLY IT IS IMPERATIVE THAT THE MODULE BE PLACED IN CORRECT ORIENTATION TO THE BASE. TO ENSURE THIS IS DONE, PLEASE FOLLOW THESE INSTRUCTIONS.

1. Look at the top of the module multiport assembly in figure 1.
2. Locate the multiport tube assemblies connecting pistons on the assembly together.
3. 2 PORT MODULE figure 1: Look at the base and notice how the base is divided, separating the two halves.
4. The module in figure 1 must be placed in the base so the tubes of the multiport assembly (connecting three pistons on one side and three pistons on the opposite side) are centered over the open hole in each divided half of the base in figure 1.
5. Look at the top of the module multiport assembly in figure 2.
6. 3 PORT MODULE figure 2: Notice how the base is divided, separating the base into three sections.
7. The module in figure 2 must be placed in the base so the tubes of the multiport assembly (connecting two pistons together dividing the multiport assembly by thirds) are placed over one open port and one blank port in the divided areas of the base in figure 2.

If the Module is placed incorrectly, multiple zones of nozzles in the pool will fire at the same time.

2 PORT, 4 GEAR MODULE & BASE Figure 1

Multiport
Assembly



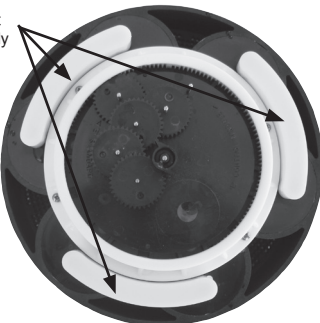
Part number: 004-302-4400-00



Part number: 005-302-4002-03

3 PORT MODULE & BASE Figure 2

Multiport
Assembly



Part number: 004-302-4404-00



Part number: 005-302-4012-03

SWINGJET INSTALLATION GUIDE



Fig. 1

Fig. 2



Nozzle actuated right

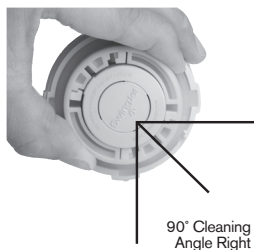
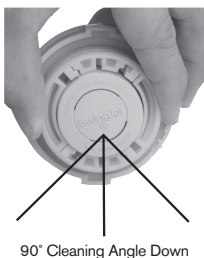
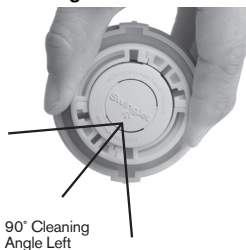


Nozzle actuated left

1. Blow out all return lines of any debris before installing the SwingJets.
2. The new SwingJet comes assembled. Remove the cover with the provided SwingJet tool (Fig. 1). Turn counter clockwise until it clicks. Actuate the nozzle until the nozzle jet is either all the way to the left or to the right (Fig. 2).

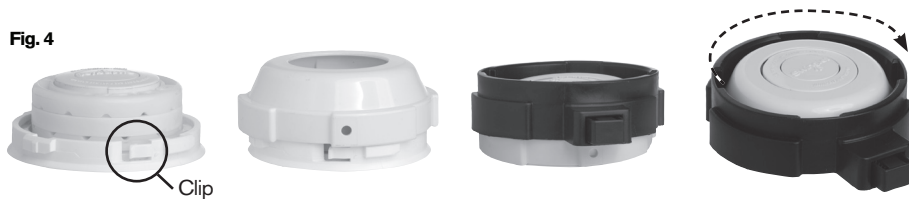
Fig. 3

Fig. 4



3. Put one wrap minimum of Teflon tape on the threads to make the nozzle threads not seize up over time. Using the provided tool thread the SwingJet into the return until tight (Fig. 3).
NOTE: THE TOOL IS REVERSABLE. ONE SIDE WILL FIT OVER THE OUTSIDE RING OF THE SWINGJET. NEVER USE A WRENCH DIRECTLY ON THE SWINGJET, IT WILL DAMAGE THE SWINGJET.
4. Grasp the cream colored cam and direct the nozzle pattern toward the area to be affected by the flow of water. Remember the nozzle is going to ratchet right or left depending on which of the two side notches you placed the pins in. See illustration for aiming cleaning angles (Fig. 4).
5. After turning and adjusting the cam be sure that the ratchets in the cam are seated by gently rocking the cam right and left to make sure the ratchets are in the groove.

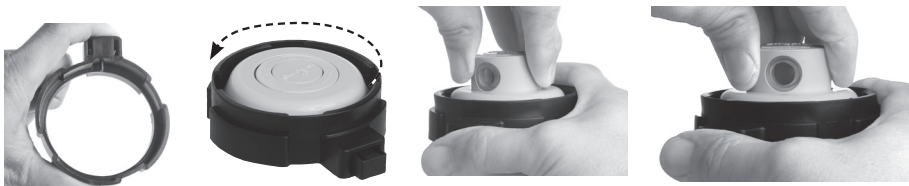
Fig. 4



1. Once in position find the clip on the outside ring of the nozzle retainer and place the hole in the cover so it is just to the counter clock wise side of the retainer clip. Line up the notches on the cover with the locking cams on the nozzle retainer. Push the cover on to the retainer and rotate clockwise until the clip snaps in the hole. Do not force the cover on when not in position. It will be difficult to remove.

ADJUSTING A SWINGJET WHEN IT IS THREADED IN PLACE

Fig. 5



- Turn the pump on so the SwingJet is on. If the SwingJet is on a water valve circuit, wait for the SwingJet to come on, and pause the water valve.
- Place the swing jet tool* (part # 005-721-4541-00) over the cover with the spring loaded key over the hole on the side of the cover of the SwingJet. Leaving the key in place, while pushing down on the button key rotate the cover counter clockwise until it stops. Do not remove the key. The extended nozzle should now be able to be rotated to the desired position. If the nozzle won't easily rotate remove the key and very slightly move the cover counter clock wise until the nozzle will rotate. Once the nozzle is set to the correct position, remove the key and rotate the cover clock wise to re-lock the cover in place.
- Cycle the SwingJet by turning the pump off and on to make sure you have set it in the desired position.

MULTI SPEED PUMPS

The Swing Sweep Jet/s may not retract or extend all the way on low speeds, but should start extending and retracting properly once the pump speed returns back to the high cleaning speed of 20 psi on the water valve. The multi speed filter pump should run at the speed needed to produce at least 25 PSI on a clean filter for at least 2 hours for effective use of the SwingJet / Sweep system. Switching off the SwingJet without a water valve requires the pump to be cycled.

Note: Pools with cartridge filters, SwingJets are a precision ratcheting nozzle/s which reverses back and forth. It is important that when cleaning your filter you follow the steps below to eliminate debris from getting into the lines and equipment (including SwingJets, chlorinators, heaters, water features and water valves and back into the pool downstream from the filter).

1. Turn off the filter pump, open the filter air bleed at the top of the filter tank.
2. Open/remove the drain plug on the bottom of the filter (plumbing a two way valve to replace the plug can make this a time saving and easy thing to do).
3. Remove the lid from the filter. Using a hose, wash out the inside of the tank.
4. After the tank is clean, remove the filter elements and clean them thoroughly. Refer to the cartridge manufacturer's instructions for proper cleaning procedure.
5. When clean, replace the filter elements. Put the drain plug back / or turn off the two way valve (if installed), replace and seal the filter lid. Turn on the pump (never stand over any piece of equipment you have just worked on when turning on the pump). When water starts coming out of the air bleed close it.

NOTE: Failure to follow the above steps can result in jamming by debris which will result in the SwingJet needing to be removed and cleaned.

*SwingJet tool must be purchased separately when you buy individual jets. Tool is included when purchasing 3 pack SwingJets.

