

Tools Needed:

- Philips screwdriver
- Needle-nose pliers
- Small flathead screwdriver

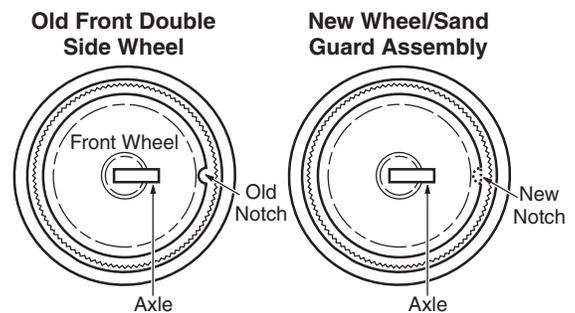
Disassembly

1. Mark the position of the head float on the feed mast. Remove and discard the head float.
2. Remove and discard the bag, sweep hose, and attach clamp. Remove and retain the sweep hose adjustment screw.
3. Remove the blue top and discard. Retain the screw.
4. Label the single-side wheel and the front double-side wheel so that once removed you can tell them apart. Remove the axle screws and the wheel assemblies for the three large wheels. Set the screws and axle plates aside for reassembly.
5. Remove the clamps and turbine hose from the feed mast elbow and discard. Remove the turbine cover. Set the screws and turbine cover aside for reassembly.
6. Remove the turbine shaft shield. Retain the shield and screws.
7. Remove the two turbine bearings, drive shaft assembly, and turbine shaft tubes. Retain the screws.
8. Remove and discard the bottom and idler wheel. Retain the screws.
9. Remove and retain the six loose axle block nuts. If they are not in the bottom, they are still in place in the frame.
10. Remove the thrust jet kit (2 screws, plate, thrust jet and o-ring). Retain the screws.

Reassembly

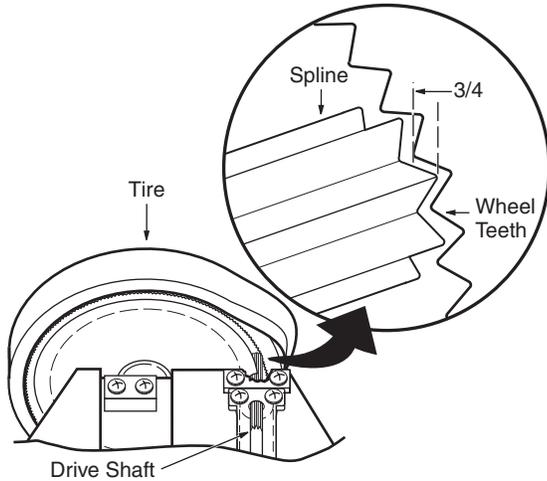
Please note: Do not over tighten the screws, they only need to be installed hand-tight.

1. Install the new thrust jet kit (o-ring, thrust jet, plate and screws). Position the thrust jet straight back and tighten screws.
2. Place the new turbine bearings and drive shaft assembly into position and replace the four screws. **Do not remove the clear covers on the drive shaft; they are designed to ensure proper turbine spacing.**
3. Reinstall the turbine cover using three of the screws. Attach the new turbine hose to the feed mast elbow and turbine cover. Install a new hose clamp at each end of the hose. Pull the clamp tight and cut off the excess length.
4. Using two screws, reinstall the turbine shield. **Note:** The lip on the turbine shield goes under the turbine cover.
5. Lay the old front double-side wheel next to a new wheel/sand guard assembly. Point the axle on each wheel in the same direction (see drawing). Use needle-nose pliers to remove a notch from the new wheel in the same place as the old wheel.



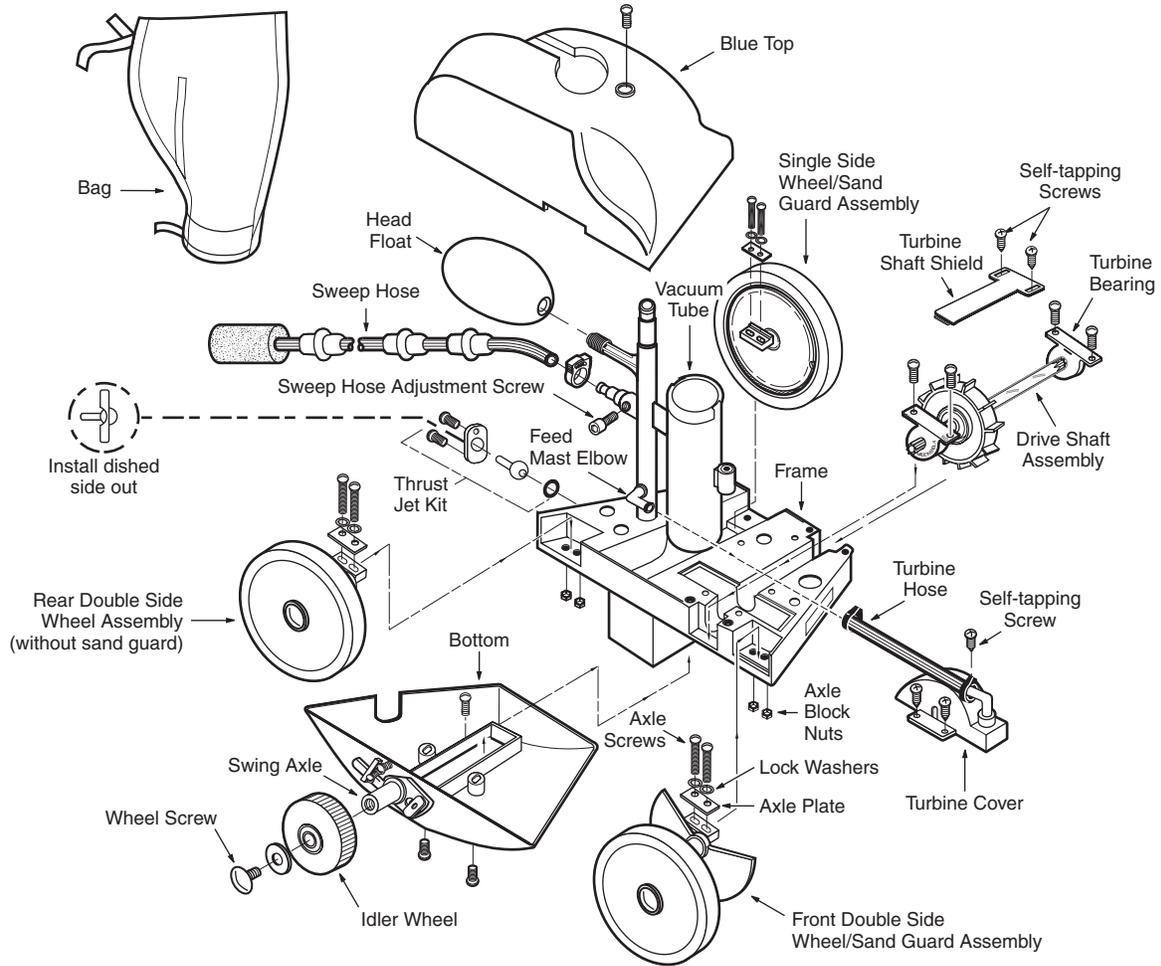
6. Install the new front double-side wheel with the axle plate, lock washers, and screws. Make sure the grooves in the axle line up with the ribs on the frame. Leave the screws loose enough to adjust the wheel position.

7. Adjust the wheel so the spline of the drive shaft assembly engages 3/4 of the wheel gear teeth. It is easier to see the engagement if you peel back the tire. To test the wheel placement, spin the wheel; it should spin freely. Also, hold the wheel and quickly rotate it back and forth. The gears should not slip or chatter.



8. Repeat steps 5-7 for the single-side wheel.
9. Align the threads on the frame and install the rear wheel assembly (this wheel does not have a sand guard) using the axle plate and lock washers. The longest part of the wheel axle should point toward the rear of the cleaner. Leave the screws loose enough to adjust the wheel position.
10. Install the new idler wheel onto the swing axle on the bottom. Use the new wheel washer and plastic wheel screw. Do not overtighten the screw; the wheel should spin freely.
11. Install the new bottom with idler wheel onto the frame.
12. Slide the rear wheel forward until it just contacts the idler wheel and tighten the axle block screws. When you spin the rear wheel, it should slip slightly against the idler wheel. When you spin the front wheel, all the wheels should spin freely.

13. Install the new blue top. Do not overtighten the screw.
14. Screw the sweep hose adjustment screw into place. Attach the new sweep hose with the attach clamp.
15. Position the new head float to the mark on the feed mast.
16. Attach the new all-purpose bag.



Zodiac Pool Systems, Inc.
2620 Commerce Way, Vista, CA 92081
1.800.822.7933 | www.polarispool.com

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