

Changing Roots Blower Shaft Configuration

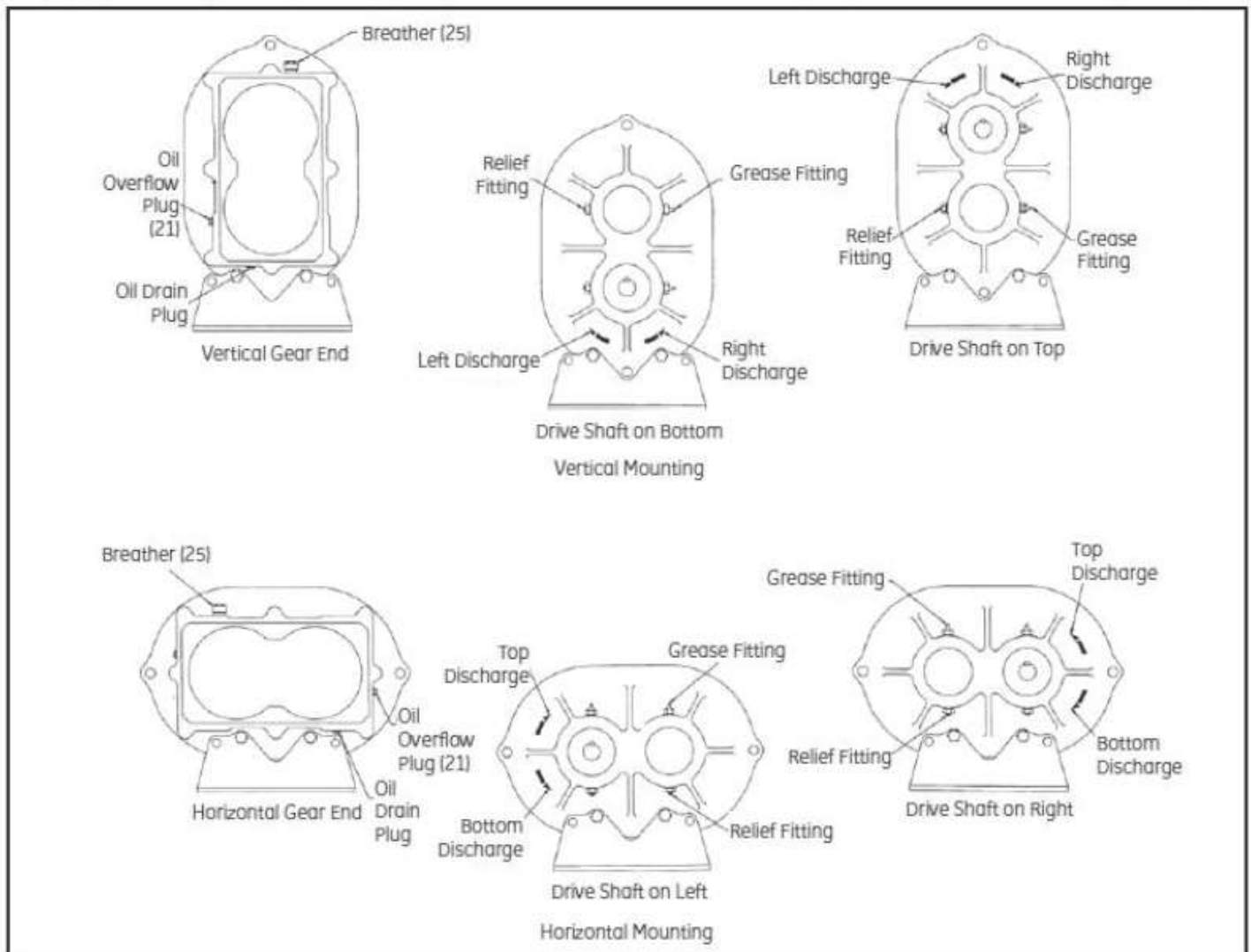
URAI Series



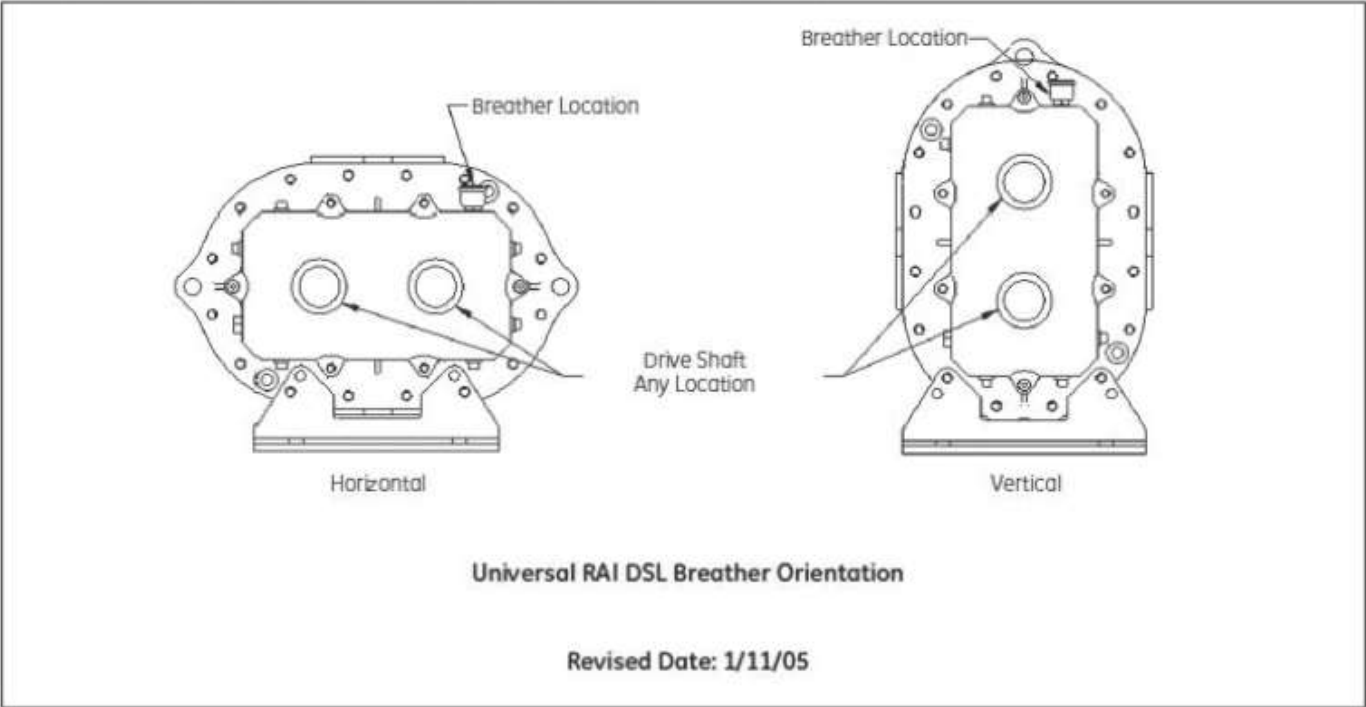
Notes:

- To change the URAI blower shaft configuration from horizontal to a vertical (top or bottom shaft) you will need to move the lifting tabs, feet, oil plug, and breather.
- To change the URAI blower shaft configuration from a left shaft to right shaft you will need to move the lifting tabs, feet, oil plug, and grease fittings.
- DSL blowers do NOT have grease fittings.
- URAI-G (GAS) blowers feet are not universal. Call 816-207-0090 for information.
- URAI-J WHISPAIR models are designed to operate with only one shaft rotation direction to take full advantage of the WHISPAIR feature. Therefore, a WHISPAIR blower may be operated in the following combinations:
 - CCW Rotation: Bottom Shaft/Right side discharge or a Left Shaft/Bottom discharge
 - CCW Rotation: Top Shaft/Left side discharge or a Right Shaft/Top discharge
 - or**
 - CW Rotation: Bottom Shaft/Left side discharge or a Right Shaft/Bottom discharge
 - CW Rotation: Top Shaft/Right side discharge or a Left Shaft/Top discharge

Blower Orientation and Lubrication Points: Grease Lubricated Drive End Roots Universal RAI series & URAI-G gas blowers



Drive End Breather Orientation for Roots Universal RAI Series - DSL with Oil Lube



The following steps show how to change a 47 URAI from a left shaft to a top shaft.

Left Shaft, Vertical Discharge



Top Shaft, Horizontal Discharge



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Step 1. Begin on the shaft side. Remove the bolts holding the feet from both sides. Separate your bolts as you remove them so you know which bolts came from what location.





Step 2. Remove the lifting tab and bolt from the non-shaft side.



Step 3. Install the feet for the new configuration. Hand tighten the bolts at this time.



Step 4. Install the foot on the other side. Hand tighten the bolts at this time. Notice the shaft is now on the top.



Step 4. Rotate the blower and stand upright. Remove the bolt at the top (to the left of the lifting tab). Remove the bolt holding the lifting tab and move the lifting tab to that location.



Step 5. Replace the bolts on the housing. Hand tighten only. You should not have any unused bolts at this time.



Step 6. Repeat on the non-shaft side (move the lifting tab and replace the housing bolts). You should not have any unused bolts at this time.



Step 7. With the blower on a flat, level surface, tighten all the housing bolts and the feet mounting bolts with an impact wrench. Do not over-tighten.



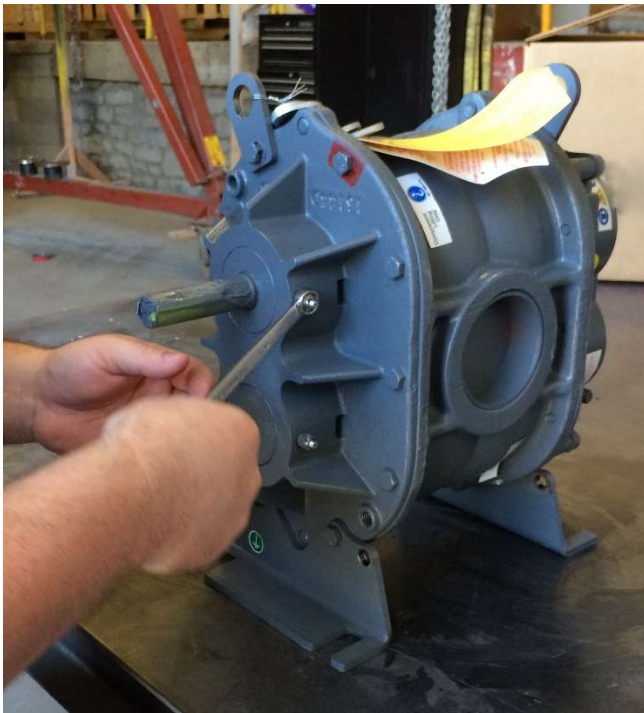
Step 8. Remove the oil drain plug and the breather.



Step 9. Wrap both pieces with tape (or pipe dope). Install the oil drain plug on the bottom and the breather on the top.



Step 10. Relocate the grease zerks and the grease relief plugs. The zerks should be on right and the grease relief on the left. Do not over-tighten.



Step 11. Remove the screw holding the nameplate and flip it over so it is readable.



Step 12. Use spray paint to touch up the housing if desired.



Step 13. Fill your blower with oil (if necessary).

Complete lubrication instructions can be found in the installation manual.