

Balcrank[®]

DEF Rotary Pump

Model 1300-027



Thoroughly read and understand this manual before installing, operating or servicing this equipment.

Operation, Installation,
and Maintenance Guide

GENERAL SAFETY



⚠ IMPORTANT

Read these safety warnings and instructions in this manual completely, before installation and start up of the control handle. It is the responsibility of the purchaser to retain this manual for reference. Failure to comply with the recommendations stated in this manual will damage the control handle and void factory warranty.



Caution:

- 1) Always read and follow the fluid manufacturers's recommendations regarding the use of protective eye wear, clothing, gloves, and other personal equipment.
- 2) Never alter or modify any parts of this product; doing so may cause damage and/or personal injury.



⚠ WARNING

DANGER: Not for use with fluids that have a flash point below 100°F (38°C, examples: gasoline, alcohol). Sparking could result in an explosion which could result in death.



CAUTION

Diesel Exhaust Fluid pumps and crystallization

Diesel Exhaust Fluid is considered in the industry as a “creep” product. This simply means that Diesel Exhaust Fluid will find its way through every possible opening. Once Diesel Exhaust Fluid is exposed to air, the water will evaporate leaving behind a “crystallized” white powdery residue. This residue can be cleaned with de-ionized water and a bit of scrubbing. As you can imagine, allowing the Diesel Exhaust Fluid to “crystallize in a pump is not a good idea. It can lead to premature pump failure.

Here are some best practices to follow:

- Don't allow the barrel, tote, or tank to run dry. This introduces air into the pump and will cause “crystallization”
- If at all possible, the pump should be used regularly to keep “crystallization” to a minimum.
- If the Diesel Exhaust Fluid pump will not be used for an extended period of time, it should be flushed with de-ionized water to prevent ‘crystallization”
- If “crystallization” has occurred in your pump, don't try and pump it out. Open the pump and clean it with de-ionized water
- Following these practices will ensure that your True Blue pump will last and deliver Diesel Exhaust Fluid as expected.



⚠ WARNING

Do not place your hand or fingers over the dispensing nozzle and/or aim the nozzle at a person at any time. Personal injury may result.



⚠ WARNING

Airborne particle hazards.

Wear eye protection.

GENERAL

The Diesel Exhaust Fluid (DEF) rotary pump is designed for simplified delivery of DEF from a 55 gallon drum. The compact/lightweight design makes it easy to switch from an empty to new a drum.

ASSEMBLY

For assembly, refer to the diagram on page 3. Ensure all fittings are tight and use teflon tape at each joint to ensure proper fit.

OPERATION

Priming instructions

1. Assemble pump complete per assembly diagram on page 3.
2. Add hose & nozzle & secure with hose clamps.
3. Secure to the drum using the bung adapter (2” NPT).
4. Prime by turning slowly in the direction of the arrow on the side of the pump. ****NOTE: must have nozzle open in order to prime****
5. Pump is ready for use.

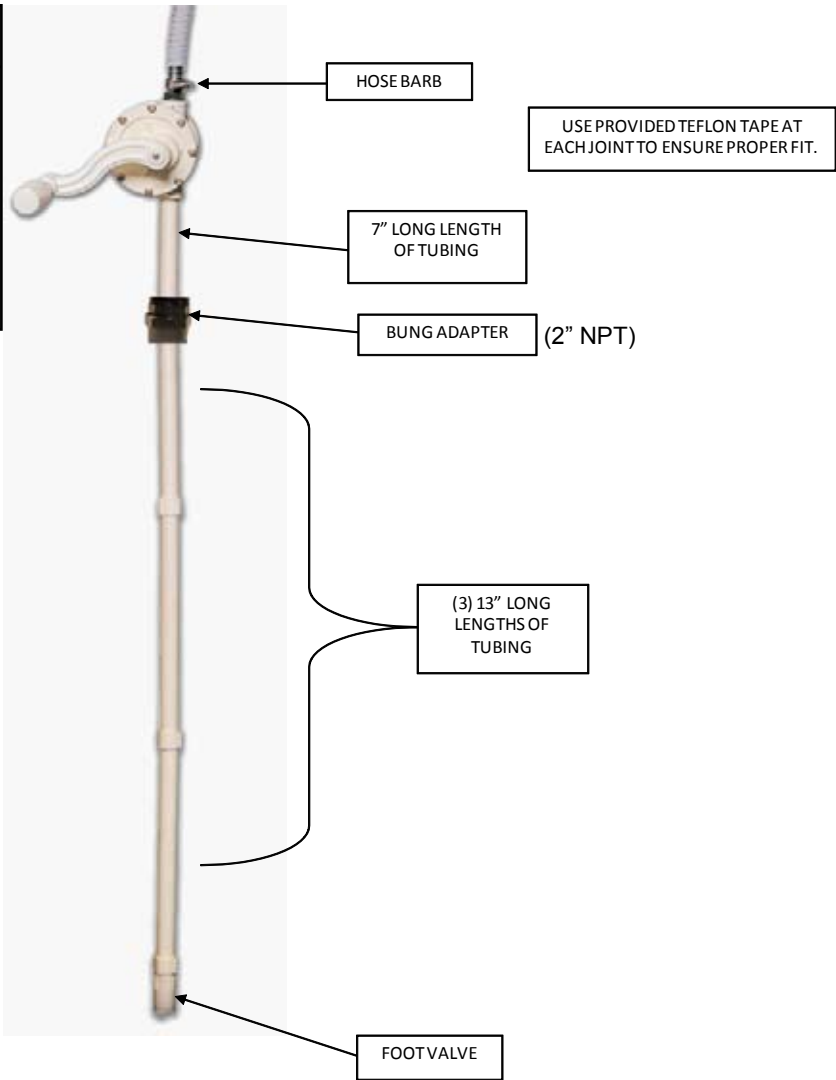
MAINTENANCE

Monthly and/or when drum is changed

1. Remove pump from the drum. Insert bottom tube into a pail of warm deionized or distilled water. Cycle at a minimum, 5 gallons through the pump to ensure all crystallized DEF has been dissolved.
2. Check all fittings to ensure they are tight.
3. Re-insert pump into drum and re-prime per instructions above.

⚠ WARNING

Only operate the pump in the direction of the arrow on the side of the pump. Do NOT rotate pump handle backwards. Air will be introduced in to the system and product will crystallize causing pump failure & possible contamination. Leave hose pressurized for next dispense.



REPLACEMENT PARTS

Part Number	Description
832993	7" Tube section
832994	13" Tube section

TROUBLESHOOTING GUIDE

TROUBLE	CAUSE	SOLUTION
Pump will not deliver product *NOTE: If none of the solutions resolve the problem, contact Balcrank Technical Service.	<ol style="list-style-type: none"> 1. Empty drum 2. Pump is not primed 3. Loose suction tube or delivery hose 4. Debris in suction tube, pump housing or delivery hose/ nozzle 5. Product has crystallized in pump 	<ol style="list-style-type: none"> 1. Replace drum 2. Ensure pump is primed following priming instructions 3. Ensure all suction tube sections are properly secured & sealed and delivery hose is secure 4. Check for any Teflon tape or debris in pump housing/tube/ delivery nozzle 5. Remove pump from the drum. Insert bottom tube into a pail of warm deionized or distilled water. Cycle at a minimum, 5 gallons through the pump to ensure all crystallized DEF has been dissolved. Re-insert pump into drum and re-prime per instructions on page 2.

**For Warranty Information Visit:
www.balcrank.com**

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Rev. D 6/12

Revision Log:

Rev. A - New Release
Rev. B - Added trouble shooting table
Rev. C - Added part numbers for
replacement tube sections
Rev. D - 6/12 - Added caution about
DEF pumps and crystallization.