



Climate Control Solutions  
Bard Manufacturing Company, Inc.  
Bryan, Ohio 43506

# Heat Recovery Cassette Bearing Replacement Instructions

This Kit contains the following:

- (1) 5070-052 ¾" BEARING/HUB ASSEMBLY (**NOT INCLUDED WITH 8620-205 KIT**)
- (1) 1912-013 WHEEL BEARING SHAFT, 0.688 DIAMETER x 1.795 OAL
- (3) 1012-157 WASHER, FLAT SHIM
- (1) 1012-201 ¼"-20 STEEL KEPS HEX NUT
- (1) 1012-154 WASHER #10 FLAT, 0.875 x 0.203 x 0.062
- (1) 1012-071 #10-32 x 3/8 HEX HEAD BOLT
- (1) 142-104 ERV WHEEL HUB COVER
- (2) 1012-164 #6-32 x ½ PHILLIPS PAN HEAD SCREW
- (2) 8611-111 6-32 ROUND NYLON SPACER

## INSTALLATION INSTRUCTIONS

Refer to Figure 1 to reference the installation sequence of the parts contained within this kit.

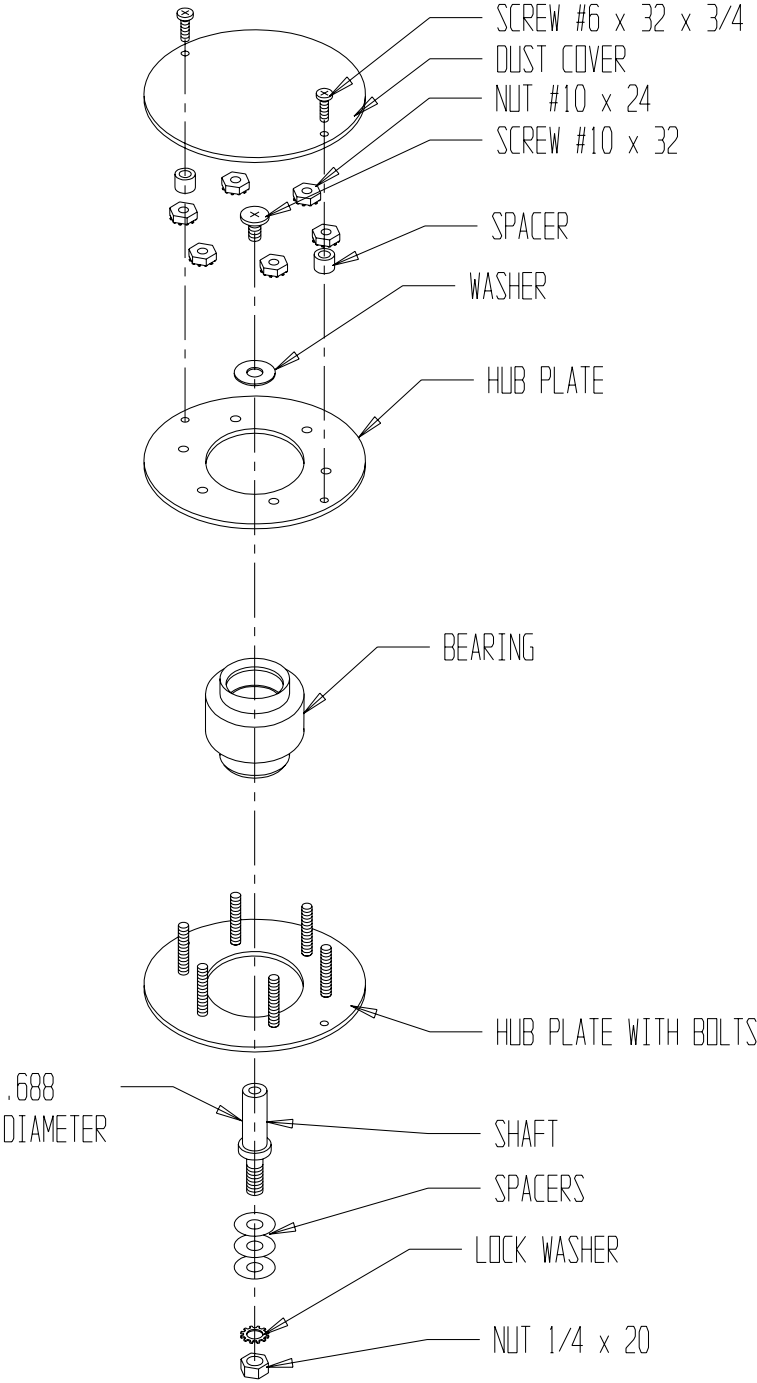
When replacing bearings in heat recovery cassette wheels that already contain the ¾" diameter bearings, which this kit contains, installation is very simple. Just take it apart and reassemble, following the same sequence of parts placement. Refer to Figure 1 as required to place washers, spacers and hardware as needed.

Take note that you can adjust the finished height of the cassette wheel in clearance to the bottom pile seals with the number of spacers that are used beneath the bearing mount shaft. You want sufficient seal of the pile seal to the bottom of the heat recovery wheel to minimize air leakage, but you don't want the seal so tight as to cause rotational issues in the wheel drive mechanism either. This is something that may require tuning and adjustment once you have everything back together.

When replacing bearings in a heat recovery cassette that originally had 3/8" diameter bearings, additional steps are required. Referring to Figure 2, note that the heat transfer media retention splines protrude further into the bearing assembly raceway, and won't allow you to simply drop-in the replacement larger diameter bearing. You will have to remove 3/8" length off of the media retention splines to allow installation of the larger bearing. We recommend use of a sharp pair of aviation snips to perform this task. (In our experience, a pair of offset snips seems to work the best.)

**FIGURE 1**  
**HUB/BEARING/SHAFT/HARDWARE ASSEMBLY**

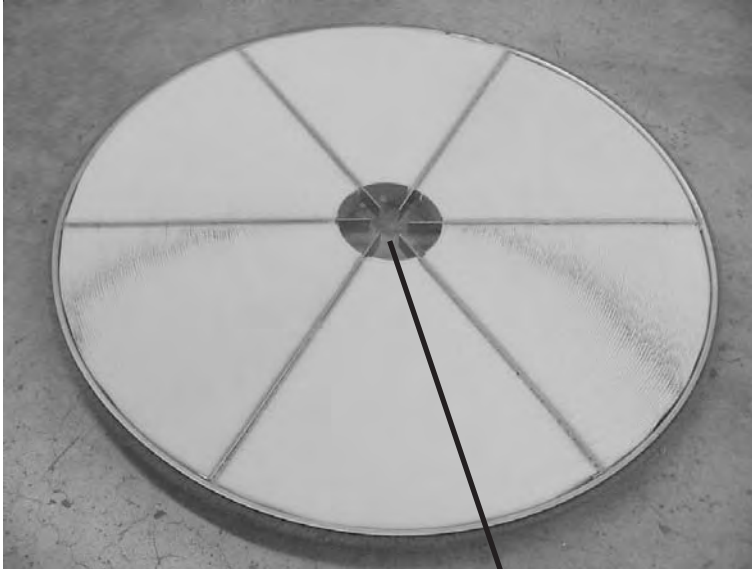
BEARING, SHAFT AND HARDWARE KIT



MIS-945 A

**FIGURE 2**  
**3/8" CASSETTE WHEEL REQUIRED MODIFICATIONS**

Shown in the photo is a heat recovery cassette wheel with the Bearing/Hub Assembly removed.



3/8" of length will need to be removed from all six media retention splines to allow installation of larger bearing in cassette wheels that previously used smaller diameter bearings.

We recommend the use of aviation snips to accomplish this task.