



BY JOHNSON CONTROLS

Service Information

File In/With: N/A

SI0268

New

1012

Equipment Affected: OM Compressors

TILTING PAD THRUST BEARING CHANGE
USED WITH 38" MULTISTAGE COMPRESSOR

THRUST BEARING CHANGE OUT

On 38" OM compressors a ventilated spacer ring is used to maintain the separation distance required to allow oil to feed between the discharge end journal bearing and the thrust bearing backing plate. Due to a dimensional change in the thrust bearing that occurred in 2006, the ventilated spacer ring can cause a blockage of the bearing oil supply. This issue only affects current production bearings (p/n 029-14115-00) that have the 2.75" dimension and not the original 3.35" bearings (p/n 064-33498-000). The figure on the following page illustrates which thrust bearings are to be addressed.

A new service kit (p/n 381-18879-000) is being developed that will contain the replacement bearing, a steel roll pin along with a drawing detailing the dimensional changes to the thrust bearing. JCI parts distribution centers will be supplying this new kit whenever the original 064-33498-000 or the superceded part number 029-14115-000 is ordered.

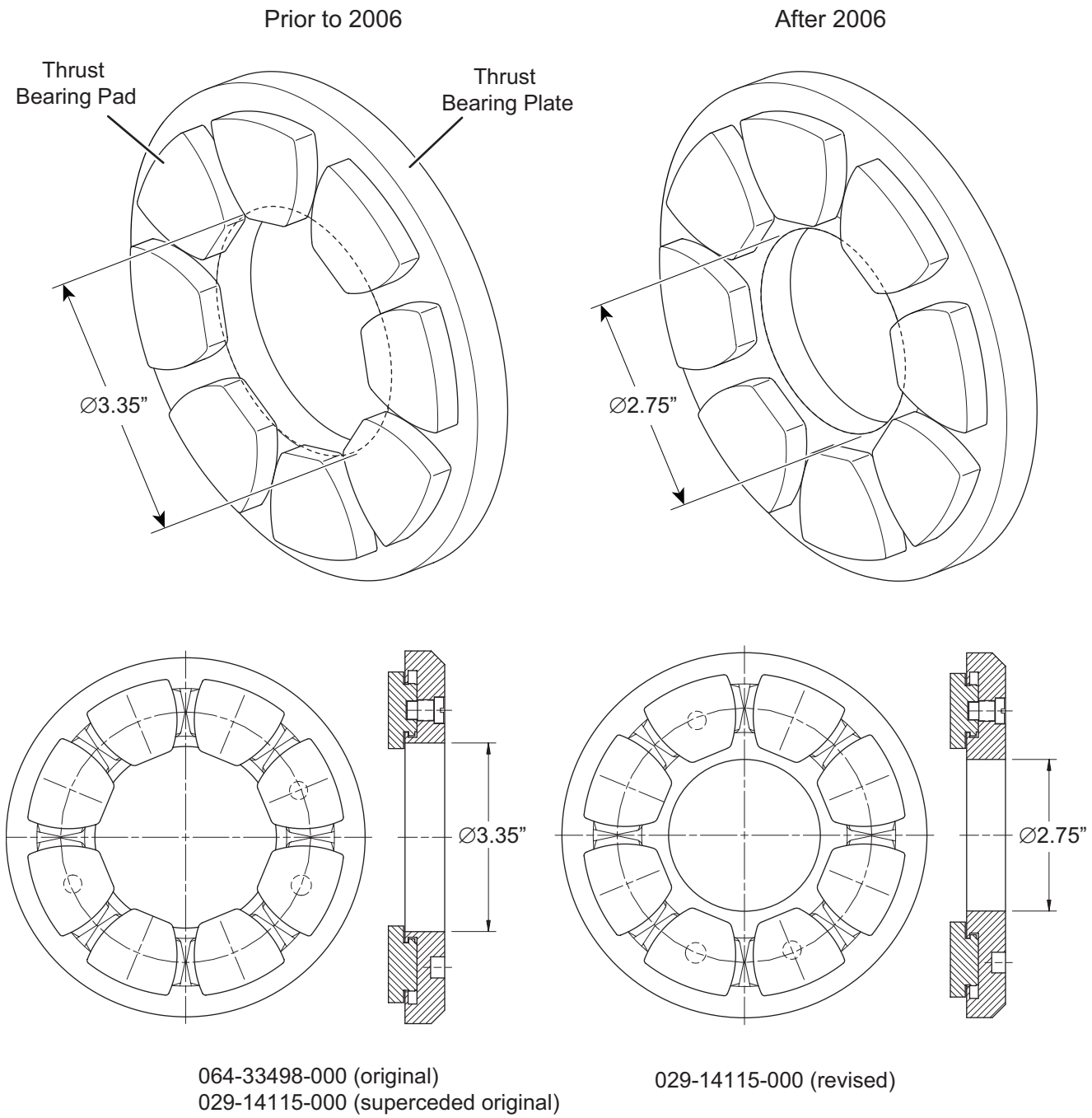
After receiving the kit, discard the current spacer ring used between the thrust bearing and the journal bearing. The roll pin (p/n 029-06841-000) must be inserted into the current 3/32" hole that exists on the face of the discharge end journal bearing. This new roll pin replaces the current spacer ring and will provide and maintain adequate separation distance needed between the back of the thrust bearing plate and the journal bearing to ensure proper oil flow.

After the roll pin has been inserted into the face of the journal bearing, place the thrust bearing into position in the compressor housing. The thrust bearing backing plate and the journal bearing should have visible space between them when the assembly is correct.

Work on this equipment should only be done by properly trained personnel who are qualified to work on this type of equipment. Failure to comply with this requirement could expose the worker, the equipment and the building and its inhabitants to the risk of injury or property damage.

The instructions on this service bulletin are written assuming the individual who will perform this work is a fully trained HVAC & R journeyman or equivalent, certified in refrigerant handling and recovery techniques, and knowledgeable with regard to electrical lock out/tag out procedures. The individual performing this work should be aware of and comply with all Johnson Controls, national, state and local safety and environmental regulations while carrying out this work. Before attempting to work on any equipment, the individual should be thoroughly familiar with the equipment by reading and understanding the associated service literature applicable to the equipment. If you do not have this literature, you may obtain it by contacting a Johnson Controls Service Office.

Should there be any question concerning any aspect of the tasks outlined in this bulletin, please consult a Johnson Controls Service Office prior to attempting the work. Please be aware that this information may be time sensitive and that Johnson Controls reserves the right to revise this information at any time. Be certain you are working with the latest information.



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FIGURE 1 - THRUST BEARING CHANGE