

# MR and TR Series bearing housing

INSTALLATION - OPERATION - MAINTENANCE

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READ AND UNDERSTAND THIS MANUAL PRIOR TO OPERATING OR SERVICING THIS PRODUCT.



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## maintenance

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### **Warning**

***Always shut off electrical power to the tower fan motor prior to performing any maintenance on the tower. Any electrical switches should be locked out and tagged out to prevent others from turning the power back on.***

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### **Lubrication**

Only the lower thrust bearing needs to be lubricated. The other bearings are sealed. Lubricate the lower thrust bearing with 15 grams of molybdenum disulfide lithium based grease at the grease zerk every three months. Do not over lubricate the bearing.

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### **Inspection**

Check for excessive end play and bearing roughness every three months. If either condition is present, proceed to repair or replace.

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### **Repair and Overhaul**

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### **Caution**

***Do not attempt to disassemble the bearing housing while it is installed in the tower. Remove the bearing housing from the tower before disassembly.***

Disassembly of the bearing housing for bearing and/or seal replacement is not recommended. Bearing assembly should be removed and a new assembly purchased and installed.

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### **Removal**

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### **Caution**

***Removal of the bearing housing should only be performed by a qualified technician.***

- Remove the fan.
- Loosen the motor support bolts and belt tensioning rods.
- Remove the belt.
- Secure the sheave with straps to prevent it from falling off the bearing housing shaft when the fan sheave is loosened.
- Loosen the sheave from the bearing housing shaft.
- Lower the sheave to a stable resting position where it can remain while the other removal work is performed.
- Remove the bolts that secure the bearing housing to the mechanical support beams.
- Hoist the bearing housing through the fan opening. Bearing housing weight is listed on the bearing housing nameplate.

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# installation

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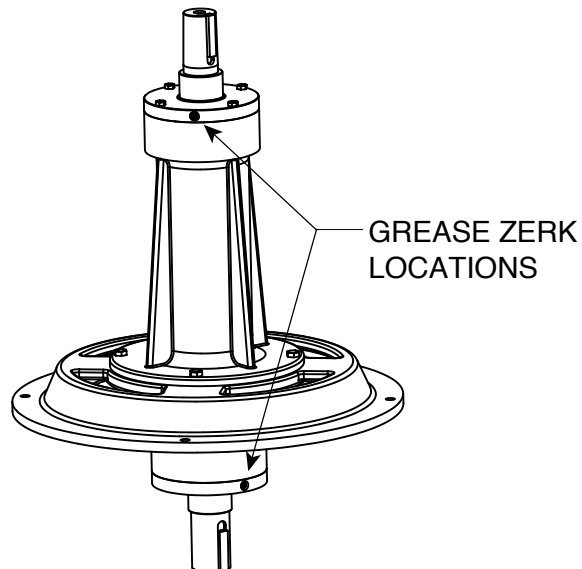
## Installation

- Lower the bearing housing into the tower through the fan opening.
- Install bolts to secure the bearing housing to the mechanical support beams.
- Install the fan sheave and ensure that it is aligned vertically with the motor sheave. Refer to the cooling tower user manual for sheave alignment instructions.
- Install the belt. Refer to the cooling tower user manual for belt tensioning instructions.
- Apply a rust proofing or anti-seize compound on the top section of the bearing housing shaft to reduce corrosion and make it easier to remove the fan in the future.
- Install the fan. Spin the fan manually to assure that all fan blades properly clear the inside of the fan cylinder.

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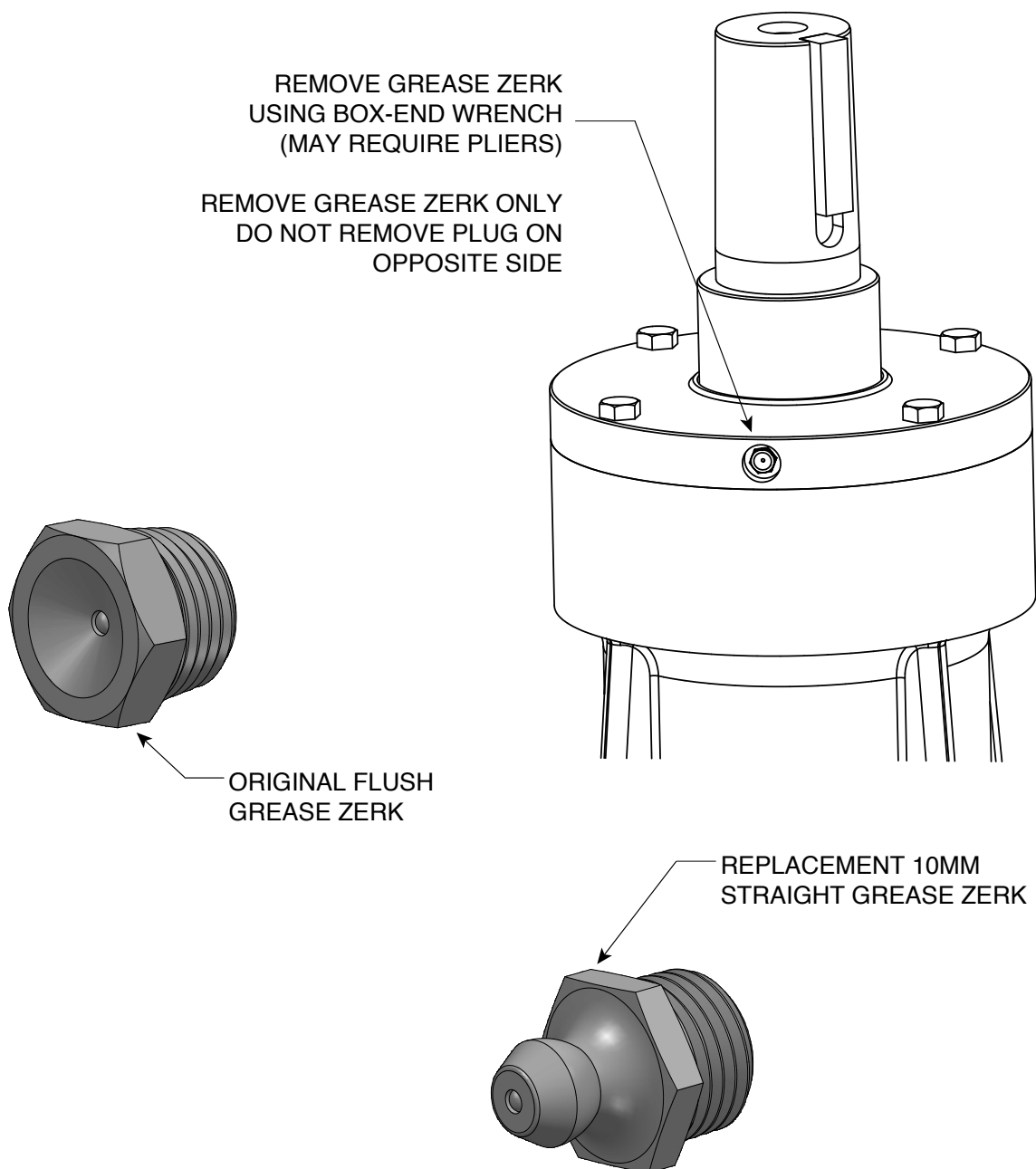
## Grease Zerk Replacement

- Replace original flush type grease zerks with straight 10mm zerks



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USER MANUAL



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