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Repair Instructions for the 2000 LJ Rotary Joints - Kadant Fluid Handling

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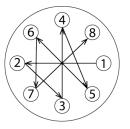
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Effective: December 10, 2024



Introduction

Read all of the instructions before proceeding. Refer to Kadant Johnson assembly drawing for part identification and to drawing A37640 for Torque specifications. For easy identification, parts used in individual steps are often accompanied with their position in the assembly drawing [e.g. gasket (8B)]. Tighten all fastener in a star pattern. Certified drawing are available upon request. Dimensions are for reference only and subject to change.



Safety



This safety symbol alerts you to risk of death or injury if the instructions are not followed. In all steps, death or injury may result if the machine is not de-energized, depressurized, cooled, and stopped. Death or injury may occur if the product is operated with a fluid type or at a pressure, temperature, or speed that do not meet its specifications. Death or injury may occur if heavy parts and pinch hazards are not handled properly. Follow your company's safety procedures.

Step 1

Disconnect the piping. Remove the hex nuts, lock washers, retaining plate (if present) from the support rods.

Equipment must be cool and free of pressure



Step 2

Loosen and remove the nipple flange (5) and slide the rotary joint away from the journal. Remove the metal gasket (8Q) from the journal flange and discard. Remove the split wedges (55) and nipple flange and save for reuse.

Note: If the support rods use supports, remove the rods prior to loosening the nipple flange.



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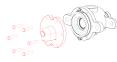
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Step 3

Remove the head (2).

Note: Inspect the horizontal pipe. Remove from the head if damaged and replace.



Step 4 - Servicing the Rotary Joint

Remove the assembly plate (31) by loosening the two cap screws (31).

Spring force present during assembly plate removal.



Step 5

Remove the following, seal ring (6), thrust collar (31), spring (7), nipple (4), and seal ring (6).

Step 6

Remove the gasket (8R) and end cap assembly (32) from the body (1).

Step 7

Certain sizes have a renewable wear plate, whereas others, the wear plate is part of the body. If the seal ring sealing surface is damaged, remove the renewable wear plate and replace using a new gasket. All other versions the body will need to be replaced.

Step 8

Install a new front seal ring (6) followed by the nipple (4), spring (7), thrust collar (3) and back seal ring (6).

Note: The front seal ring is installed with the concave side facing out. The back seal ring is the opposite with the concave side facing in.

Important: Using the body inlet connection, make sure that the keyway on the thrust collar aligns with the keys on the nipple.

Step 9

Using a new gasket (8), install the assembly plate(31).

Spring force present during retention plate installation.

Step 10

Install the head (2) using a new gasket (8).

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Note: If the horizontal pipe was removed previously, install it before reattaching the head.

Step 11 - Reinstallation

Slide the nipple flange (5) over the rotary joint nipple (4) with the taper facing out. Place the split wedges (55) into the recess of the nipple. Slide the nipple flange over the wedges.

Step 12

Place metal gasket (8Q) into the journal flange. Lift the rotary joint up, slide onto the support rods and into the journal flange. Secure to studs with hex nuts. An even gap of 1/8" to 3/16" (3 to 5mm) should remain in between the journal flange and nipple flange.

Step 13

Install a hex nut on each rod so there is a space between the hex nut and lug on the body (1). Install lock washer and a second hex nut to each rod and tighten in place. Refer to the rotary joint drawing for the correct spacing.

Important: Do not lock the rotary joint in place on the supports.

Note: When rod support stands are used, install the rods after the rotary joint is secured to the roll.

Note: In some applications a retaining plate is used on the support rods. There should be a space in between the head and retaining plate to allow for seal wear.

Note: As the seal ring wears the rotary joint will move away from the roll. When the rotary joint reaches the hex nuts the seal ring is worn.

Step 14

Connect piping to rotary joint using Kadant Johnson flexible metal hose.

Important: Refer to Flexible Hose Installation.

R-2000-LJ-Rotary-Joints

The Kadant Johnson Warranty

Kadant Johnson products are built to a high standard of quality. Performance is what you desire: that is what we provide. Kadant Johnson products are warranted against defects in materials and workmanship for a period of one year after the date of shipment. It is expressly understood and agreed that the limit of Kadant Johnson's liability shall, at Kadant Johnson's sole option, be the repair or resupply of a like quantity of non-defective product.

Kadant Johnson Rotary joints and accessories are (could be) subject to European Pressure Equipment Directive 2014/68/EU (PED). Modifications or changes to the Rotary joints and/or accessories are only permitted upon approval of Kadant Johnson. Only genuine Kadant parts and original accessories will ensure the safety of these assemblies. The use of other than original parts voids the warranty and will lead to forfeiture of the declaration of conformity and will invalidate any liability for damages cause thereby.

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