

Disassembly

Match mark all parts before disassembly to aid in maintaining the sheave's balance during reassembly. Great care must be exercised during disassembly because the spring force may be as high as 400 lbs.

1. To remove the spring and associated parts, follow the instructions corresponding to the sheave model number.

RC55 Place the sheave in a press and lightly depress the end cap with the arbor. This is to contain the spring after the spiral pin is removed. After the sheave is secured in the press, use a punch to remove the pin.

RC60 thru RC1315 Place the sheave in a press and depress the outer spring cover until the spiral pin is visible in the end cap. Use punch to remove pin.

RC1330 Remove the allen head capscrews holding the outer spring cover and remove this cover. The spring retainer is now accessible. Place the sheave in a press and use a "U" shaped spacer to compress the spring retainer and spring approximately 1/8" and remove the retaining ring.

2. Slowly release the press and remove the end cap/retainer and spring.
3. The allen head capscrews holding the gear rack to the outboard flange will be visible and can now be removed. Removal of these capscrews will allow the outboard flange to be slid off the center sleeve.
4. Remove the outboard flange to expose the capscrews attaching the inboard flange to the opposite gear rack. Remove these capscrews and slide the inboard flange from the center sleeve.
5. The gear racks can be lifted from their key slots and inspected. Use a punch to remove the gear pin and gear from the sleeve.

Reassembly

All parts should be cleaned to remove all the grease. Align match marks during assembly.

1. Position gear in slot of center sleeve and replace gear pin thru sleeve, keeping it flush with the sleeve.
2. Place the inboard gear rack in the keyway of the center sleeve, locating it approximately flush with the inboard end of the sleeve.
3. Place the outboard gear rack in the opposite keyway on the center sleeve locating it approximately flush with the outboard end of the sleeve.
4. Insert center sleeve and gear racks into the bore of the inboard flange. The thru holes on the flange must align with the correct tapped holes in the respective gear rack. Using a medium strength Loctite, install the capscrews between the inboard flange and respective gear rack.
5. Repeat line 4 to install the outboard flange.
6. Replace the spring and end cap/retainer under the press. Compress the spring enough to replace the spiral pin/retaining ring.
7. Re-install sheave on the shaft per the directions previously outlined.
8. Regrease the assembly with an approved grease.

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