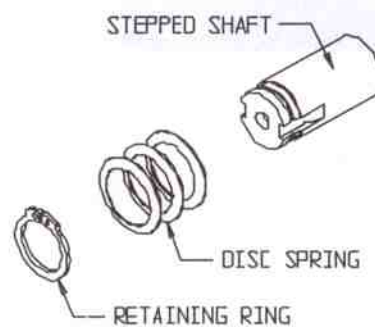
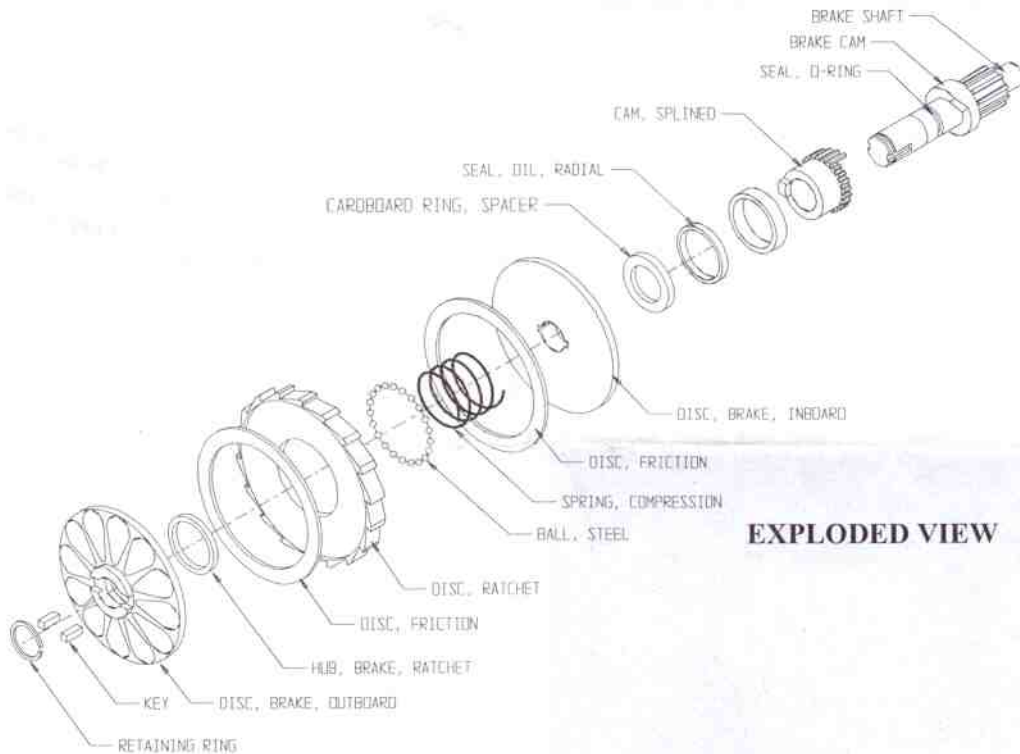




INSTALLATION INSTRUCTIONS

WARN WINCH M8274 BRAKE SERVICE KIT

READ AND UNDERSTAND THESE INSTRUCTIONS BEFORE ATTEMPTING REPAIRS.



NEW STEPPED SHAFT

15352 D0

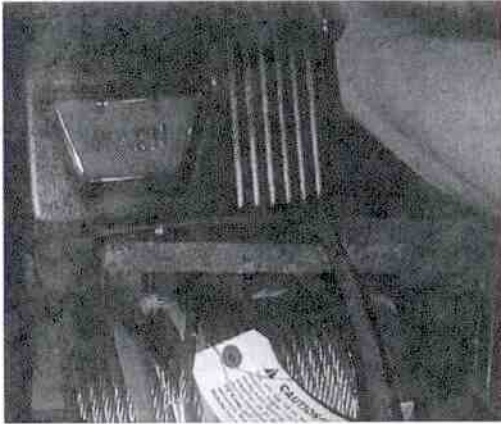


Figure 1
Remove the three socket head screws holding the top housing to the bottom housing of the winch. Remove the upper housing as shown above.

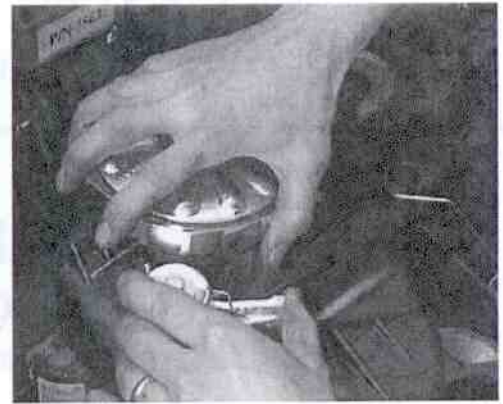


Figure 3
Clean the shaft and coat very lightly with grease. Hold the pawl down and slide the brake assembly onto the shaft. **Be certain both keys are in place before replacing the snap ring.**



Figure 2
Use special tool #9194 to hold the brake assembly together while removing it from the winch. Remove the snap ring as shown and the brake assembly will slide off the shaft.

INSTRUCTIONS--BRAKE SERVICE KIT

When parts are rusted to brake shaft:

1. Remove three Allen head cap screws that attach the upper and lower housings.
2. Remove the upper housing by using two wooden 2 x 4s, approximately 12 inches long. Stand one on edge by the drum support and pry up on motor end using the other 2 x 4. This should break the RTV seal loose. (see Figure 1)
3. Lift up the retaining plate and clamp to side of lower housing, so the brake shaft can be removed.
4. Remove the oil and any metal particles from the bottom of the lower housing.
5. Using two small 12 inch crow bars stuck between the lower housing and brake assembly, apply a sharp shock towards the lower housing to remove the brake assembly.
6. A spring is compressed between the inner and outer brake disc. This spring force must be compensated for before removing the retaining ring. Two clamps located on opposite sides of the brake assembly should be used. A special tool, Warn Part Number 9194 is recommended for this purpose. After the clamps have been installed, remove the retaining ring. (see Figure 2)
7. Press brake shaft from inboard and outboard disc with an arbor press.
8. Use caution while removing the clamping force from the brake assembly. If special tool 9194 is used, lay the brake assembly on a flat surface and hold down firmly while removing.
9. Clean brake shaft. See "IMPORTANT NOTE" at end of instructions.

Reassemble of complete brake:

1. Grease the cam ramp and O-ring. Reassemble brake assembly using the replacement parts provided. It is important to note the orientation if the ratchet disc teeth with respect to the inner and outer brake disc. See Illustration. Compress the assembly and re-clamp as was done for removal. (see Exploded View)
2. Be certain that the parallel keys are in place. (FOR SHAFT WITH NO STEP) Replace the retaining ring, flat side out, and remove the clamps.
(FOR SHAFT WITH STEPPED END) Place 3 pcs of the disc springs
BEING CAREFULL TO PLACE WITH CONVEX SIDES OUT and 1 (.906 ID) retaining ring to the shaft, flat side out, and remove the clamps.
3. Clean all oil and grease from the lower housing opening and brake bushing. Apply a thin coat of Loctite 271 to the lower housing opening, then insert brake assembly.
4. Position split cardboard ring between inboard brake disc and radial oil seal.
5. The ratchet pawl, before tension is applied should rest between the three and six o'clock positions. When replacing the brake assembly on the shaft, the pawl must be rotated one full turn clockwise for proper spring tension against the ratchet. (see Figure 3)
6. Insert brake assembly into the lower, intermediate gear and retaining plate.
7. Rap the end of the brake shaft firmly with a rubber mallet to properly seat the bushing and radial seal flush with the lower housing. After the seal and bushing are properly seated, REMOVE THE SPLIT CARDBOARD RING. Lower the retaining plate into place.

8. Add six (6) ounces of SAE 30 oil to the lower housing. (Do not overfill)
9. Be certain that the mating surfaces of both the upper and lower housing are free of grease and oil. Then apply RTV silicone sealant to the upper housing so that both surfaces will seal properly. Install the three socket head cap screws and square nuts and tighten.

Disassembly -- External Parts Replacement Only

1. The brake assembly must be clamped together while removing it from the winch. A spring is compressed between the inner and outer brake discs. This spring force must be compensated for before removing the retaining ring. Two clamps located on opposite sides of the brake assembly may be used, however a special tool. Warn Part Number 9194, is recommended for this purpose. (see Figure 2)
2. After clamps are in place, remove the retaining ring and slide the brake assembly off the shaft.
3. Use caution while removing the clamps from the brake assembly. If special tool 9194 is used, lay the brake assembly on a flat surface and hold down firmly while removing.

Reassemble -- External Parts Replacement Only (see "IMPORTANT NOTE" at end of instructions).

1. Reassemble the brake assembly using the replacement parts provided. It is important to note the orientation of the ratchet disc teeth with respect to the inner and outer brake discs. Compress the assembly and re-clamp as in disassembly. (see Exploded view)
2. Clean the brake shaft and apply a very light coat of grease.
3. The ratchet pawl, before tension is applied, should rest between the three and six o'clock positions. When replacing the brake assembly on the shaft, the pawl must be rotated one full turn clockwise for proper spring tension against the ratchet. (see Figure 3)
4. Rotate the ratchet pawl and slide the brake assembly onto the shaft. BE CERTAIN THAT THE RATCHET TEETH ENGAGE THE PAWL, SO THAT THE RATCHET DISC CANNOT ROTATE CLOCKWISE.
5. Be certain that the parallel keys are in place. Replace the retaining ring making sure that the flat side is out, and remove the clamps.

IMPORTANT NOTE:

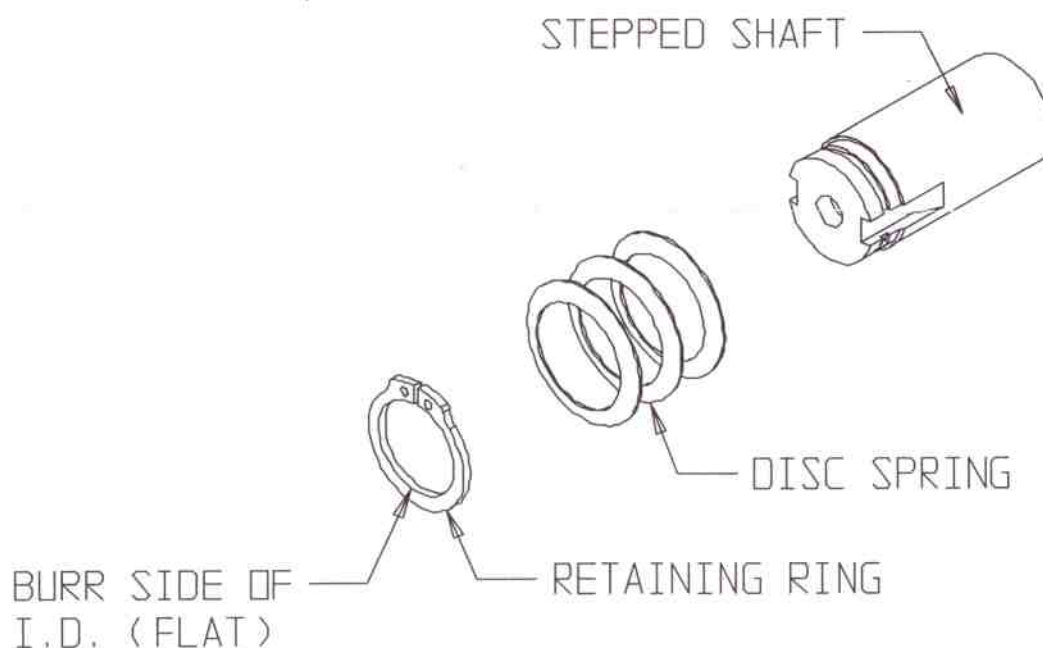
THE CIRCULAR BRAKE LININGS PROVIDED WITH THIS KIT MAY BE REPLACING SIX PLUGLIKE FRICTION DISCS. IF THIS IS THE CASE, INSPECT BOTH SIDES OF THE RATCHET DISC TO INSURE THAT BOTH SIDES OF THE DISC THAT WILL CONTACT THE BRAKE LININGS ARE SMOOTH, MACHINED SURFACES. IF THEY ARE NOT, (IF THEY ARE "AS CAST"), THE RATCHET DISC MUST BE REPLACED WITH WARN PART NUMBER 7601. THESE SURFACES ARE CRITICAL TO SAFE BRAKE OPERATION. IF YOU ARE UNCERTAIN ABOUT THE CONDITION OF THESE SURFACES, CONTACT YOUR NEAREST WARN DEALER OR DISTRIBUTOR.



IMPORTANT! INSTALLATION INSTRUCTIONS

Assembly of retaining ring to brake shaft:

1. Place 3 pcs. of the disc springs ***BEING CAREFULL TO PLACE WITH THE CONVEX SIDES OUT*** to the shaft.
2. Be certain that the ***BURR SIDE*** of the retaining ring (***inside diameter***) is placed towards the outer side of the shaft. (SEE ILLUS. BELOW)



P/N 38081 A0

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