



Gorilla Winches

ATV Winch Drive Shaft and Sun Gear Replacement Instructions for models XTR, XT, and Pro Series

1. Secure cable or rope to spool using tape, a big rubber band, etc.
2. Remove the top two Allen Head Bolts on the freespool end of the winch. [See Fig. 1] Separate the winch by pulling the freespool end away from the Drum. Remove the Drive Shaft and Clutch Return Spring from the winch.



Fig. 1

3. Place the Freespool Housing with the metal side (Drum Support) down. Remove the lower two Allen Head Bolts and pull the Freespool Housing off the metal Drum Support and Planetary Gears.
4. Remove the Sun Gear (the small gear inside the larger planetary gears), and replace it with the new Sun Gear. [See Fig. 2]
5. Keep all the gears together and slide them back into the Freespool Housing. The side of the gears where the Sun Gear is should be closest to the Freespool Knob.

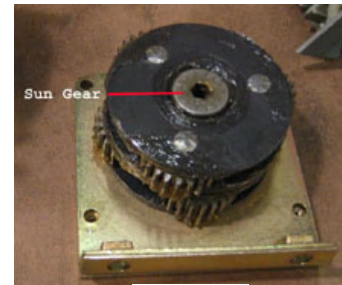


Fig. 2

6. Place the Square Nuts back in the Housing with the offset holes closest to the table. Place the Drum Support over the end of the housing, making sure that all the holes for the bolts line up correctly. [See Fig. 3]
7. Place the shorter two Allen Head Bolts in the bottom two bolt holes of the Housing and tighten. Put the Bushing back on the Drum Support if it fell off.
8. Then put the Clutch Return Spring on the new Drive Shaft by placing it on the hexagonal end near the spring retaining C-clip. [See Fig. 4]

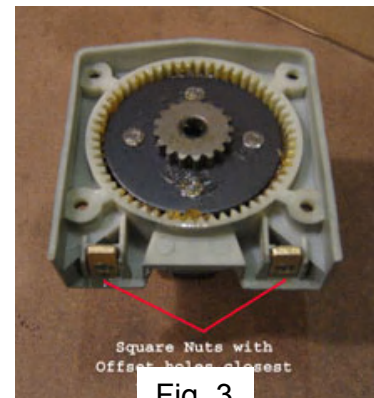


Fig. 3



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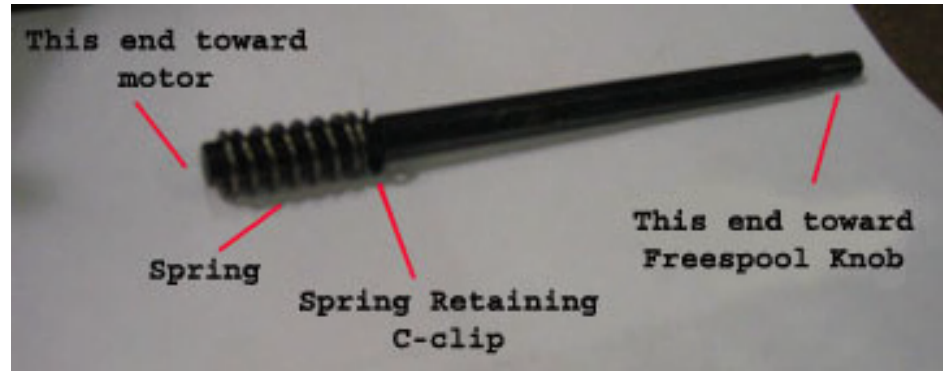


Fig. 4

9. Put the hexagonal end of the Drive Shaft through the Drum, keeping the spring on the Drive Shaft, and insert the Drive Shaft into the center of the planetary gear on the motor side of the winch.
 - * You should feel the Drive Shaft slip into place and catch on the gears.
10. Make sure the Freespool Knob is turned to “Engage” when putting the Freespool Housing back on the winch. Slide the Freespool Housing onto the Drive Shaft.
 - * You might have to twist the Freespool Housing until it slides into the gears on the Drum.
11. Realign the bolt holes on the Freespool Housing with the metal Tie Rods. Place the longer two Allen Head Bolts in the top two bolt holes and tighten. The winch should look straight. The Housing should not be at an angle to the spool. [See Fig. 1 again]
12. Remove the tape from the cable or rope and check to make sure the Freespool Knob works properly.
 - * If the Freespool Knob does not want to turn, hook up motor directly to a power source to turn the drum (half to one full revolution) and try the Freespool Knob again.