

TSB 2013.07.004
Reduction Chain Drive
Information & Installation

Affected Reels: Powered Reels
Time Required: Varies Dependant on Reel
Priority: Customer Need
Date Issued: July-2013

DESCRIPTION:

Hannay reduction units are designed to fit most Hannay electric rewind reels. They produce increased torque and permit a slower operating speed. Reduction units may be installed at the factory, at the time of original reel order, or they may be installed in the field. Units for field installation are supplied complete with chain, connecting link and fasteners. This TSB shows how to install a reduction unit.

KIT CONTAINS:

One Reduction Chain Drive Unit, a chain with connecting link for the motor and all fasteners needed to install the reduction. Note: the chain already installed on the reel may need to be lengthened or shortened depending on the installed location of the reduction unit.

GEAR RATIOS:

Hannay reduction units are available in the ratios shown in the attached chart. Ratios are listed according to the number of teeth in each sprocket.

TO ORDER:

For field installations, please provide the reel's serial and model number along with the reduction ratio desired. Units for factory installation should be ordered with the reel.

Common Reduction Ratios		
Ratio	Speed Reduction	Torque Increase
12/18	33%	50%
12/25	50%	100%
12/36	67%	200%
12/48	75%	300%

Figure 3 - Guide for Reduction Ratios vs. Hose Size

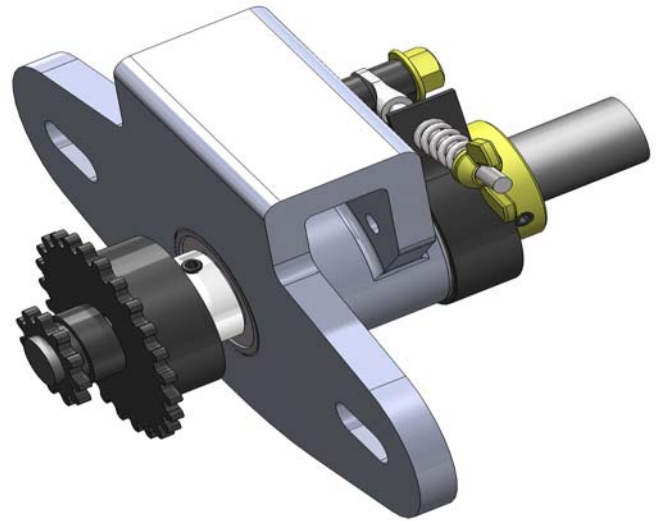


Figure 1 - Reduction Unit w/ optional friction band brake

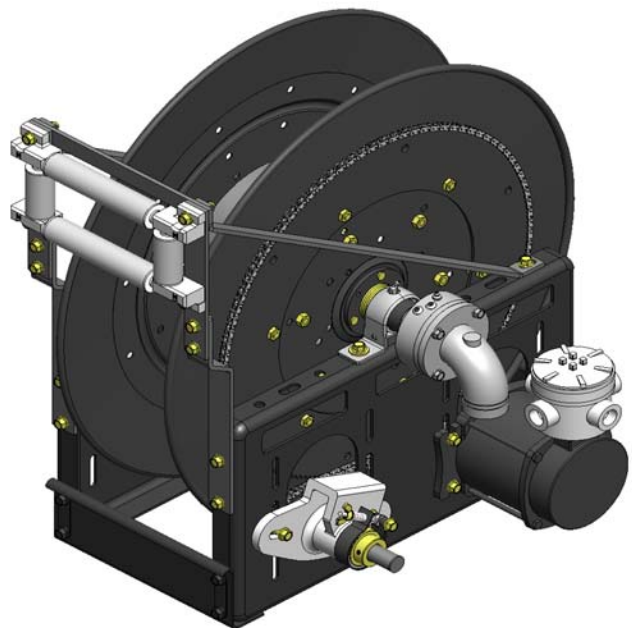


Figure 2 - Powered Reel with Reduction unit

ACTIONS REQUIRED FOR INSTALLATION:

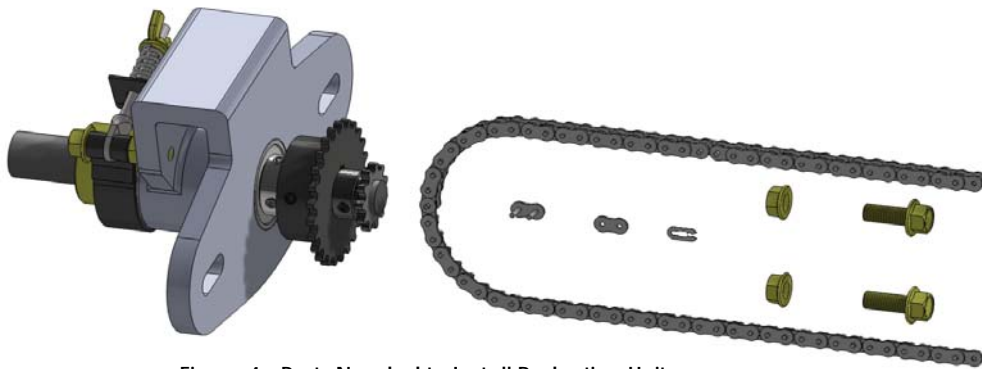


Figure 4 - Parts Needed to Install Reduction Unit

1. Disconnect existing drive chain master link from reel motor and sprocket.

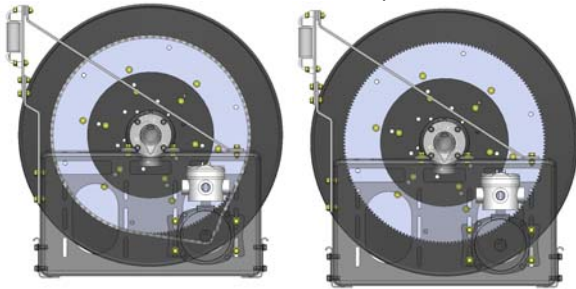


Figure 5&6 - Reel with and without the motor chain

2. Attach reduction unit in space provided on motor plate as shown (opposite motor).

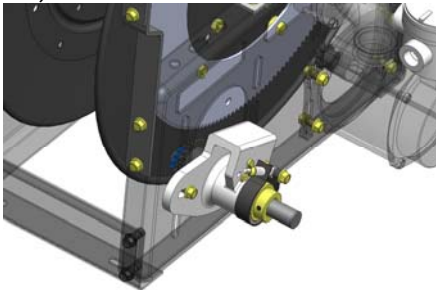


Figure 7 - Reel with Reduction Installed

3. Using original chain, connect the reel disc sprocket to the smaller sprocket of the reduction unit and adjust tension. In some cases, chain may require adding or removing links

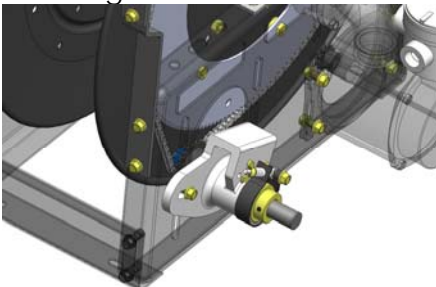


Figure 8 - Reel with Spool Chain Attached to Reduction Unit

4. Attach chain supplied with reduction unit to motor sprocket and the larger of the two reductions unit sprockets; then adjust chain tension by rotating, raising or lowering the reduction unit as required. Tighten the reduction unit fasteners.

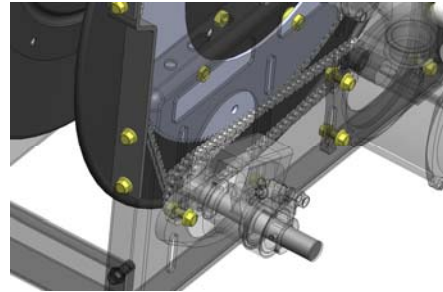


Figure 9 - Reel with Spool & Motor Chains Attached to Reduction

5. Align chains by moving sprockets in and out on their shafts. Tighten sprocket set screws. The reel is now ready for operation.

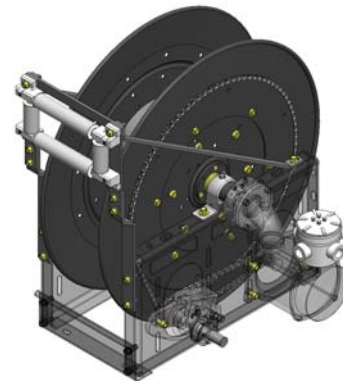


Figure 10 - Completed Reduction Installation

PERIODIC MAINTANACE:

Check tension on both chains. Deflection should not be excessive when pressing chain. Lubricate chains and sprocket teeth as needed with good chain oil.