



**Worm Gear Reducer
Adjustable Torque Arm Kit
Installation & Maintenance Manual**

Power Transmission Solutions
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FORM
9978E
Revised
April 2016

⚠ WARNING

- Read and follow all instructions carefully.
- Disconnect and lock-out power before installation and maintenance. Working on or near energized equipment can result in severe injury or death.
- Do not operate equipment without guards in place. Exposed equipment can result in severe injury or death.
- Removing torque arm when load is applied to the gearbox can cause severe injury or death. The motor and gearbox must be properly secured and load removed before assembly or disassembly of the torque arm or components.

⚠ CAUTION

- Periodic inspections should be performed. Failure to perform proper maintenance can result in premature product failure and personal injury.

Single Direction of Operation: (Fig. No. 1)

1. Thread the Jam nut onto the appropriate rod end.
2. Thread both rod ends into the turnbuckle a MINIMUM of 1/2 inch during installation and when the gearbox is operating.
3. Mount Reducer on the shaft securing to the shaft with the supplied setscrews.
4. Bolt the torque arm foot to a rigid foundation. (Foot bolts are customer supplied Grade 5 or stronger).
5. The torque arm foot must be in-line with the torque arm bracket mounted to the reducer with-in 1/2 inch per foot of torque arm length.

CAUTION: Mount the torque arm foot so that the torque arm is in tension and not compression when the gearbox is operating. Failure to mount the torque arm in tension could result in product failure and personal injury.

6. Install the torque arm to the bracket attached to the reducer using the supplied bolt, nut and lockwasher.
7. Install the torque arm to the torque arm foot using the supplied bolt, nut and lockwasher.
8. A line drawn from the center of the hollow output to the center of the bracket bolt and the torque arm must form an angle of 90° within 30°
9. Adjust the turnbuckle to position the gearbox in the correct position and then tighten the jam nut.

Reversing Direction Operation: (Fig. No. 2)

Two torque arms are installed so that one or the other of the torque arms is in tension for either direction of rotation. Follow instructions above for mounting of each torque arm

Bolt Tightening Torques			
Capscrew Size	Torque (FT/LBS)	Capscrew Size	Torque (FT/LBS)
1/4 - 20	6.25	1/2 - 13	65
5/16 - 18	16	5/8 - 11	125
3/8 - 16	25	3/4 - 10	220
7/16 - 14	40	1 - 8	525

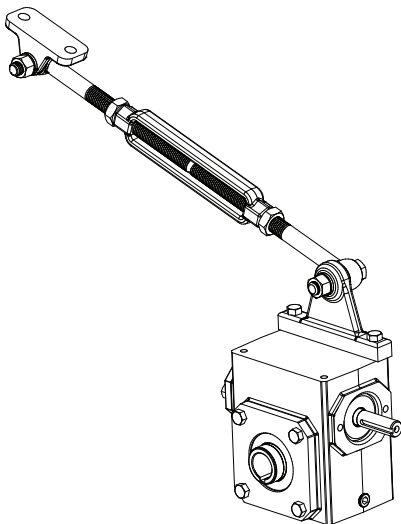


Fig. No. 1

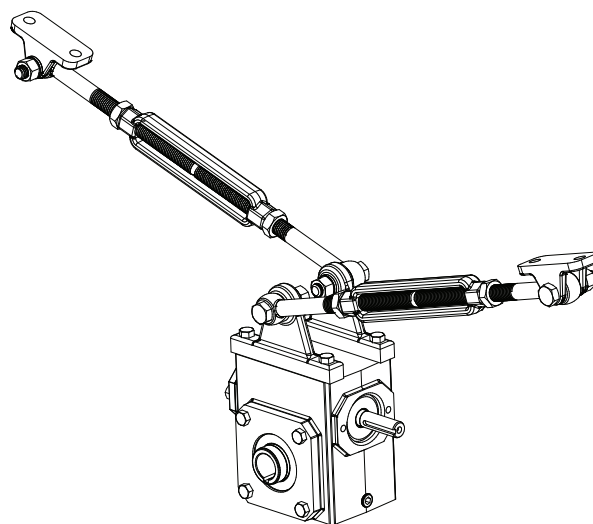


Fig. No. 2

