



The following bullets are **Long Term Storage Instructions** for the Browning TorqTaper Plus shaft mounted units. These instructions include excerpts from *ANSI/AGMA 6009-A00, Standard for Gearmotor, Shaft Mounted and Screw Conveyor Drives*, Section 18.2 Adverse conditions or long term storage, page 33.

1. Remove the standard breather from the unit, if installed already
2. Orient the gearbox into the 6 o'clock (standard) position
  - a. Do not attempt to prepare the unit for long term storage when the unit is positioned with the output vertical
3. Completely fill, to overflowing, the unit with a high quality oil base rust inhibiting lubricant
  - a. Recommendation: Fill with the same manufacturer/grade of oil to be used when the unit is placed in operation
  - b. Remove excess air bubbles by rotating the input shaft, by hand, until the output makes one complete revolution
  - c. *"During periods of extended storage or storage in environments subject to high humidity, extreme temperature change, or corrosive atmosphere, gear drives should be completely filled to overflowing with a high quality oil base rust inhibiting lubricant."*
4. Install a NPT pipe plug with sealant into the breather location hole
  - a. *"The lubricant should be circulated to coat all internal components and the gear drive sealed to help prevent condensation."*
  - b. The gearbox should be sealed from the ambient air to eliminate the chance for condensation entering the gearbox
5. Apply a thin layer of high quality oil based grease to all exposed seal lips
  - a. Grease should be compatible with the oil used to fill the unit
6. Coat all external surfaces with a rust preventative
  - a. *"All unprotected external surfaces should be coated with a solvent based rust inhibiting undercoating and top coated with an asphalt base or equivalent rust preventative."*
  - b. Exposed items include: Input shaft extension, output quill bore and outside diameters
  - c. Protect the seal lips when applying the rust preventative to avoid accidental contact
7. Rotate the input shaft every month so that the output quill rotates at least one complete revolution
  - a. Occasional rotation of the shafts extends the seal lip life. The seal will not "stick" in one position
8. When preparing the unit for service, clean all rust preventative from the exposed surfaces
  - a. Use rust preventative manufacturer's recommended removal process
  - b. Protect the seal lips when removing the rust preventative to avoid accidental contact
9. Mount the unit in the final operating position using the procedures from the TorqTaper Plus shaft mount installation manual
  - a. Allow the unit to rest in the final operating position for 24 hours
10. Lower the oil level to the recommended operating level based upon speed and mounting orientation
  - a. Remove plug from the appropriate location for the breather to eliminate creation of vacuum
  - b. Quickly remove and re-install plug from the appropriate location for the oil drain to allow a small amount of oil to drain from the unit. As water is heavier than oil, this process removes any possible condensed water from the sump.
  - c. Remove plug from the appropriate location for the oil level to drain oil
    - NOTE:** Contact Regal Beloit Power Transmission Solutions (PTS) Application Engineering for oil level instructions when using a backstop in the 12 o'clock and 3 o'clock mounting positions
  - d. Since the gearbox was completely sealed and airtight, the oil should be acceptable for use. By lowering the oil level instead of replacing the oil, the cost and environmental impact can be minimized. Please use a catch pan to properly dispose of all removed oil.
11. Install the oil level plug in the appropriate location
12. Install the breather in the appropriate location
13. Complete installation using procedures from the TorqTaper Plus installation manual

*Browning*

**REGAL**<sup>™</sup>