

Date: November 15, 2016

Service Bulletin # GSBS-09

To: All owners of effected models

Subject: Foote #1543 Bevel Gears in Model 35 reversing Transmissions

Machine Style: Early Gear Drive, 1 and 2 speed models with Foote Transmissions

These transmissions include 2 bevel gears with recessed pockets & shoulders that allow a clutch collar to engage. Years of use, shifting fork wear, poor shifting technique and grease breakdown can contribute to rounding of these shoulders. When rounding is severe enough the transmission will begin to slip, skip or not engage at all.

These gears have been discontinued for many years. New old stock and good salvaged gears have become very scarce. If the shoulder wear is not excessive it is possible to machine the shoulders back to provide positive clutch collar engagement. If you bring your gears and clutch collar to a local machine shop they can understand the relationship and re-mate the gears and collar. Before and after photos are found below.

Notes:

- Both gears operate in the same direction so it's not as simple as swapping them.
- The gears are hard; carbide tooling is required.
- The gears are sintered from powdered metal. I am not aware of any success in welding new material to these gears.

