



SERVICE INFO
LETTER

BY: TRR

CHKD: TRR

REABE DESIGN LLC

2552 Coreland Ct, DePere, WI 54115

TITLE: 7.5" GATE INPUT SHAFT

SUBTITLE: RETAINING

NUMBER: GATE 02

DATE: 01/01/2024

REV: 1

PAGE: 1 OF 1

Subject

7.5" Smart Gate Input Shaft Retaining

Issue

The gate input rod could move out of engagement with the gearbox if the Left Inboard Support (PN: 8-7-1-001) is allowed to move outboard.

Summary

The Smart Gate is designed to allow manual actuation of the gate if needed. If the set screws on the .75" Flange Bearings (PN: 8-7-2-150) are not properly tightened the pulling action of the Manual input could pull the Input Shaft out of the gearbox if the Left Inboard Support is not held in position by the Flange Bearings.

To alleviate and prevent this problem, make sure Input Shaft (PN: 8-7-2-001) is fully inserted into the Planetary Gearbox (PN: 8-7-2-004), Check that there is no more than .050" gap between the snap ring on the Input shaft and 1" Flange Gearing (PN: 8-2-2-007) Check that Both Set screws on both .75" Flange Bearings are properly torqued per AC43.13-1B.

As an additional safety a cross brace or span of .051" dia Stainless Steel Safety wire may be used to connect the Left and Right Inboard Supports. (Path shown in Red)

View from bottom up of Input shaft on 7.5" Gate Assembly

