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so many fake sites. this is the first one which worked! Many thanks

POWER TRAIN **REPAIR**

6. Turn upper case half over.
7. Install a shim washer (C) from Shim Kit of the proper thickness that allows enough clearance for E-ring (D) to be installed. "G" air gap should be 0.25 mm (0.010 in.) or less.
8. Turn upper case half over and measure air gap between input (G) and bevel pinion gear (E). (See Input Shaft/Pinion Gear Assembly.)
9. If measurement results in a "NO GO" reading, shim thickness (C) needs to be changed.
10. Install wendrol key (F) in shaft keyway.

3. Align lower and upper case halves together. Be sure lower case fits on center correctly and you may need to turn input shaft (D) slightly to insure beveled pinion gear meshes with beveled drive gear.
4. Install 14 outside socket head screws (A) and two center socket head screws (B) with new rubber seals (C).
5. Tighten screws to specification.

Specification:
Transaxle Cap Screws
..... 9–10 Nm (100–125 lb-in.)

Install Shifter Detent Assembly
STX30 (SN 210001–301302) and STX46 Transaxle

IMPORTANT: DO NOT drop or lose detent balls.

1. Pack upper case beveled pinion gear and lower case housing assembly with 438 g (15.406 lbs) of grease.
IMPORTANT: BE SURE sealant DOES NOT contact any gear, shaft, or bearing surfaces.
2. Apply the Dremel Form-In-Face Cassket Silicone Sealant to case cutback where intermediate shaft Range bearing sets into upper and lower case halves.

1. Install shifter shaft rubber boot (B).
2. Coat detent balls (C) and springs (D) with John Deere Non-Stick and install in case halves.
3. Install and tighten set screws (A) until they are flush with top of mounting hole surface.

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