Procedure for Replacing the Axle Shaft in a T40, TL200, K46, K57 or K574 TUFF TORQ transaxle

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Note: These procedures are for multiple models and there are differences in Axles and Pulley/Fan configurations
Tools Required

- Hammer
- Screwdriver (flathead)
- Snap ring pliers
- 12mm socket or wrench
- ¾” axle Seal driver (3333)
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Remove Snap Ring on end of Input Shaft and remove Fan/Pulley stack up components
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- Remove the Sealing Cap by placing the flat blade of a screwdriver under its lip and tap upward with a hammer
Drain used oil from access port by inverting the transaxle
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- Remove (16) case retainer bolts with a 12 mm socket or wrench

- Separate Upper & Lower housing by prying them apart at tabs with a screwdriver
Axle Shaft must be detached from differential in order to remove it.
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- Remove Thrust Washer. Easiest to grasp with a Magnet

- Pull outward on Axle relieving retainer Ring from recess of side gear. Lift Ring from Axle groove with a magnet
Pull Axle completely out of transmission housing
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Remove (Axle) Oil Seal from transmission case ensuring not to damage the case. Use card stock or cardboard to protect the case while prying.
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- Insert new Axle Shaft into transmission case

- Engage Axle with differential by aligning splines on end of Axle Shaft with splines in bore of side gear
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install retainer ring in groove of axle shaft.

then, shift axle so the ring is captured in recess of side gear.
Install Thrust Washer between (inner) Axle Bushing and diff. side gear
Clean metallic particles from the (3) Magnets shown
Clean old sealant from Upper Case flange

Replace Filter
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Remove old sealant from flange of Lower Case
Apply a bead of TUFF TORQ sealant 1A646099500 on Lower Case flange as shown in photo. Be sure to encircle the inner radius of the perimeter bolt holes and completely encircle the (2) interior bolt holes.
Install and tighten the (16) case bolts
• Wrap tape around the Axle starting inboard and ending at the tip of shaft in order to cover keyway and protect double lips of new Seal during installation.

• Apply a generous coating of grease between the double lips of new Seal and over the newly applied tape on Axle.
Axle Bushing Alignment Procedure
for the T40, TL200, K46, K57 or K574

Make sure you know how the seal is supposed to sit on installation

Spring goes to the inside

To the outside
Slide Seal onto wrapped Axle Shaft. Seal side with lip retainer spring should be on inboard side.

Slide Seal up to the Housing and seat it by hand before using Seal Installation Tool.
Remove the tape from the Axle and clean off any remaining grease and or oil from the Axle and Seal area.
Using the Seal Installation Tool drive the Seal all the way up in the Housing until it is seated against the Axle Bushing.
Pour new oil into transaxle through the access port as shown. Use TUFF TECH oil part# 187Q0899000
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After air bleeding oil level @ oil temp 20°
For transmissions with external or remotely located expansion reservoir, oil should be added to the level marked on tank and/or indicated in operators manual.

One expansion tank example is shown at right.
• Inspect Seals and case for leaks before installing Sealing Cap

• Install new Sealing Cap and seat with a rubber hammer
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Reinstall the Fan & Pulley stack-up onto the Input Shaft. Be sure the components are arranged in the same order as they were removed.
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