








# K46/T40/TL200 TRANSAXLE FULCRUM O-RINGS REPLACEMENT PROCEDURE

Proudly Presented by  
TUFF TORQ Services



*Note: Some models may vary. This diagram is intended to provide information for the replacement of the Fulcrum O-rings only.*

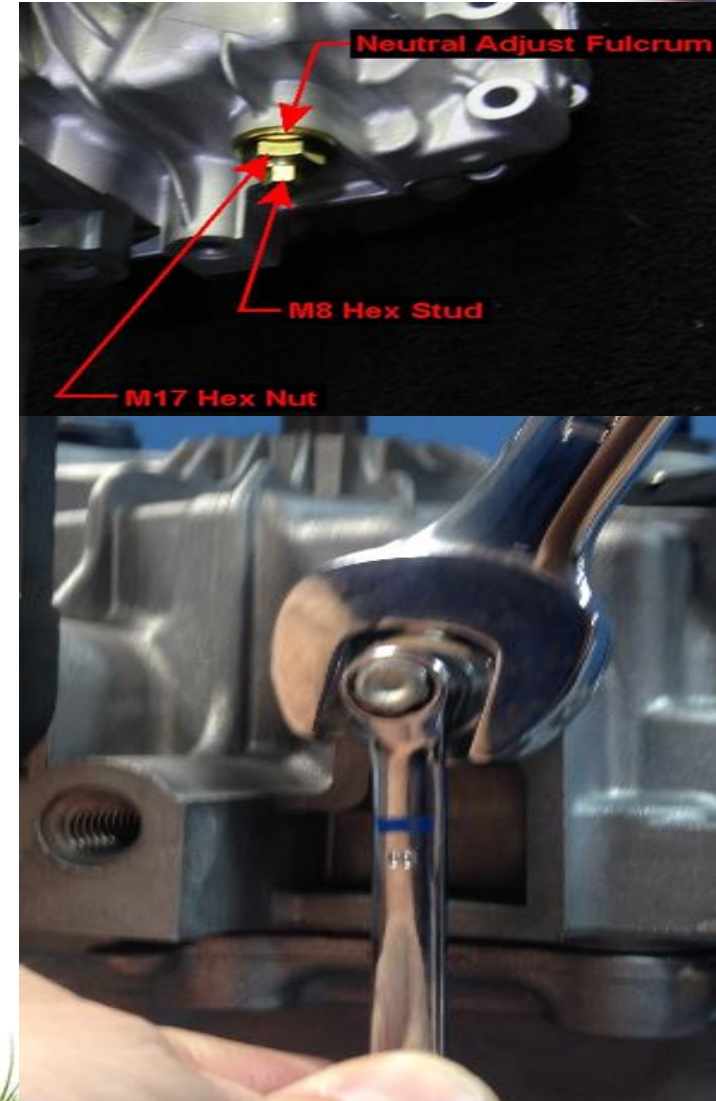


# Tools Needed

-  8 mm wrench
-  17 mm wrench
-  Small O-ring / seal pick tool




-  Note the orientation of the Fulcrum (Neutral Adjust Fulcrum)
-  Hold Fulcrum Shaft with 8 mm wrench while breaking loose jam Nut with 17 mm wrench. Try to maintain the position of the M8 Hex stud by not turning it. **Note:** *This will help to set neutral later in this procedure*








 Remove the Nut and Washer.  
Later reuse the Nut and Washer  
if both are in good condition

 Remove both O-rings with the  
small pick tool




 *Note: Be careful to not  
damage/scrape the Housing or  
Fulcrum*



- Take a clean cloth and wipe the Fulcrum and Housing free of debris
- Install the new O-rings and push them in by hand. See next step for final installation





-  Use the dull or rounded end of the small pick tool to push the O-rings into the Housing. Be careful to not damage the O-rings or the Housing
-  Reinstall the Washer and Nut and install the unit back on the tractor. Follow the neutral setting procedure as seen later in this diagram
-  Be sure to inspect the fluid prior to installation







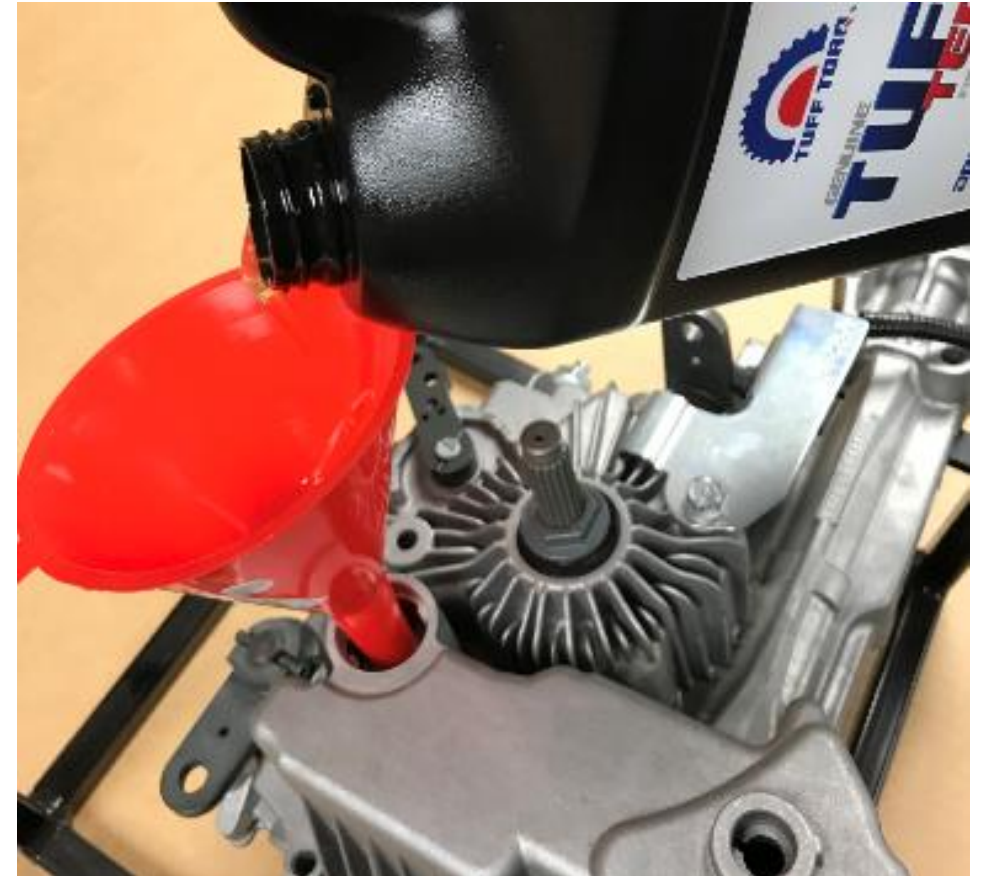
- Remove the Snap Ring, Fan, and Pulley. Please note the stack up of the Pulley, Fan, Washer etc.
- Discard the old Snap Ring. Note the orientation of the original Fan/Pulley stack up for proper re-installation*
- Remove the Sealing Cap by prying up with a flat screwdriver. Also remove the Magnet

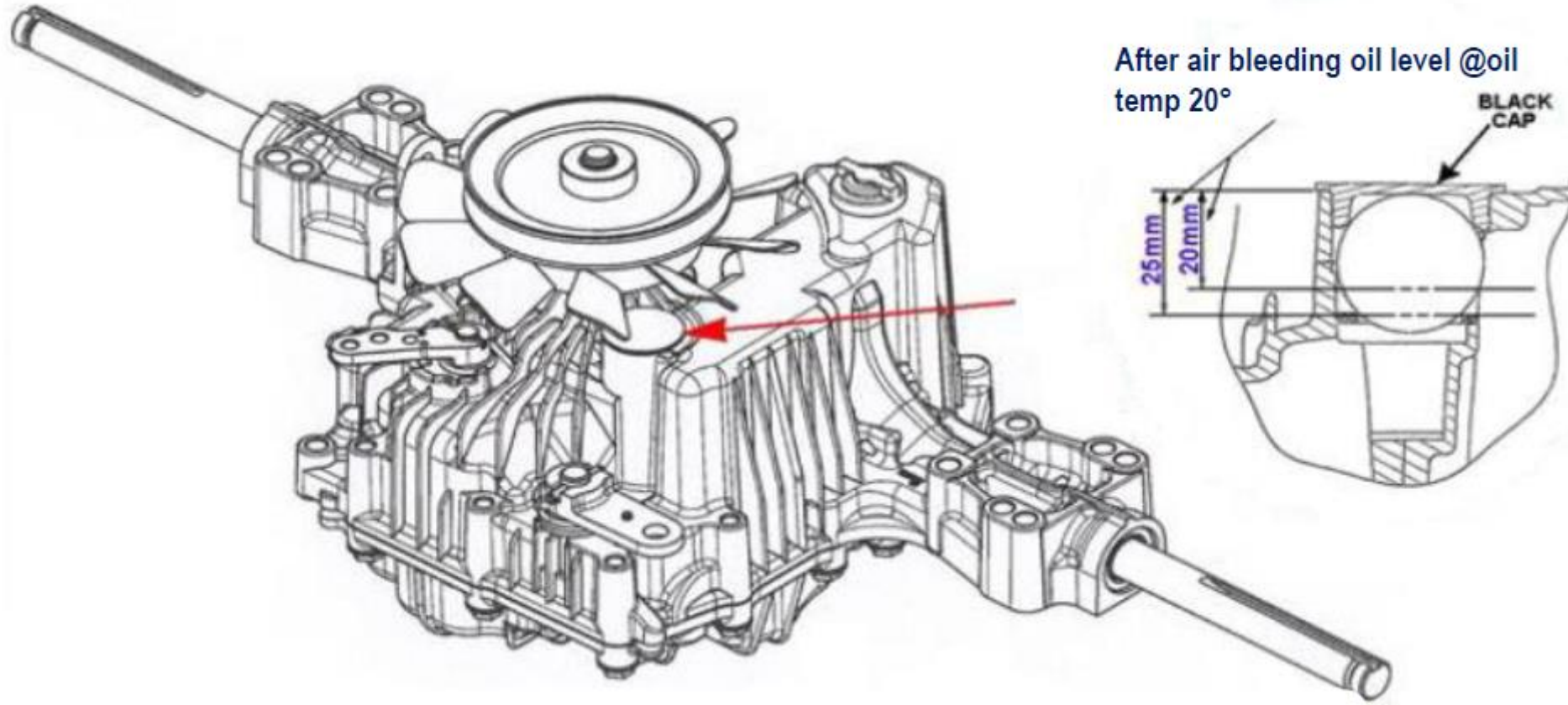






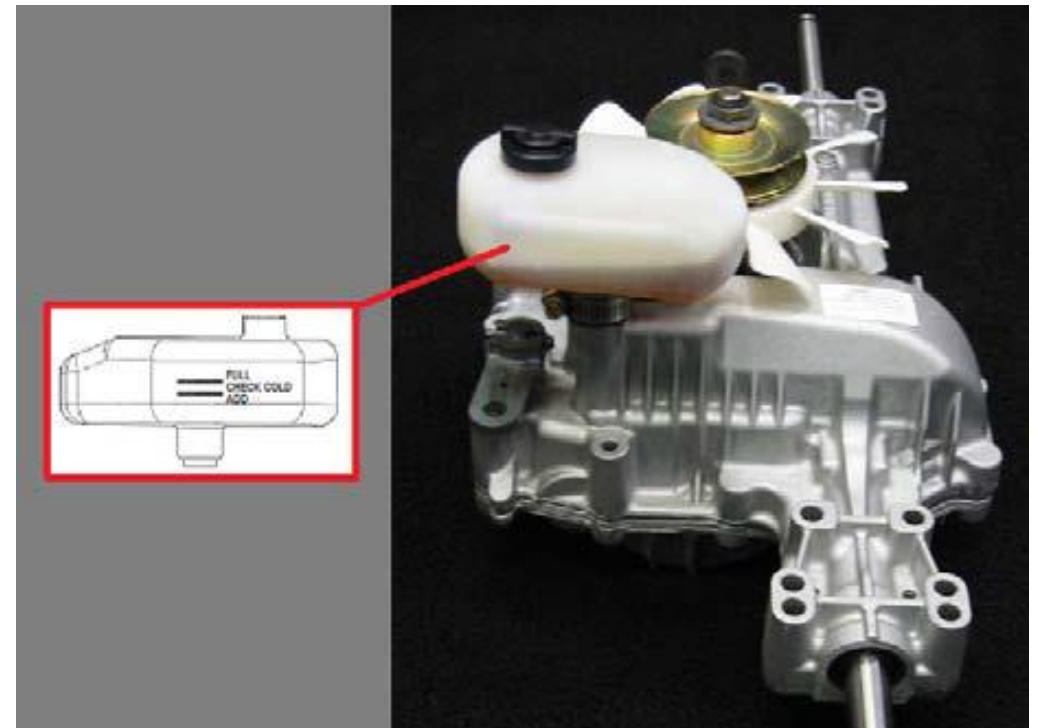
- See oil level height below. Oil level should be maintained at 20~25 mm (3/4"~1") below the lip of (black cap) port. Use Tuff Tech Oil (187Q0899000 ) to top off or refill the transaxle. If the oil appears contaminated feel free to turn over and drain and refill completely with approx. 2.3 liters of Tuff Tech oil. Reinstall the Magnet and the Sealing Cap







- 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



- 1: Place the tractor/rider's drive axle on jack stands and ensure the tires are off the ground.
- 2: Remove necessary vehicle components & shielding to access Fulcrum on transaxle.
- 3: Start engine and adjust throttle to full throttle.
- 4: Hold Fulcrum shaft with 8mm wrench while loosening the 17mm jam nut.
- 5: Rotate the fulcrum shaft clockwise until the axle start to rotate.
- 6: Rotate Fulcrum counter-clockwise slowly until axle stop and start turning in the other direction
- 7: Finally rotate the Fulcrum shaft clockwise until the midpoint is reached between starting points of the wheels rotating in opposite directions.
- 8: Hold Fulcrum shaft with an 8mm wrench while tightening the 17mm hex nut.
- 9: Confirm no rotation of the axle by returning the controls (pedal/lever) to neutral from both forward and reverse.
- 10: Stop the engine and put mower back on the ground.
- 11: Reinstall anything you may have to moved to do this procedure.







***“Our mission is to provide a secure future for our employees, benefit the community and the environment while providing our customers the highest value off highway power train solutions in the world.”***