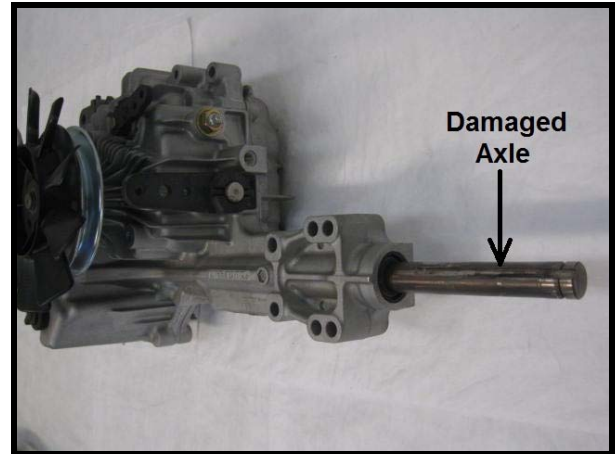


# Procedure for Replacing Axle Shaft in a T40, K46, K57 or K574 Transaxle

1. Following is a step by step procedure in replacing a damaged axle shaft in a T40, K46, K57 or K574 transmission.



2. Remove snap ring on end of input shaft and remove fan/pulley stack-up components.



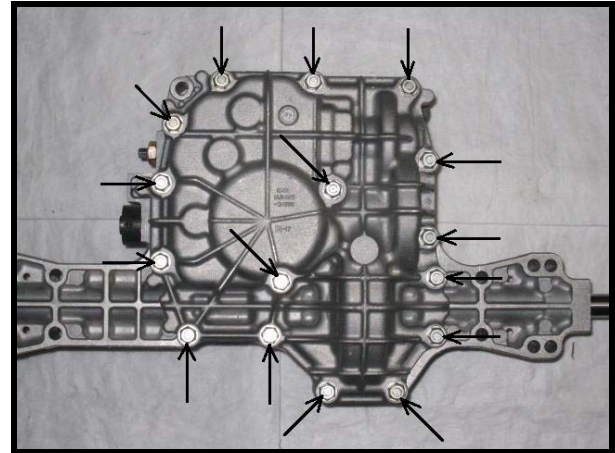
3. Remove black plug by placing the flat blade of a screw driver under its lip and tap upward with a mallet.



4. Drain used oil from access port by inverting the transaxle.



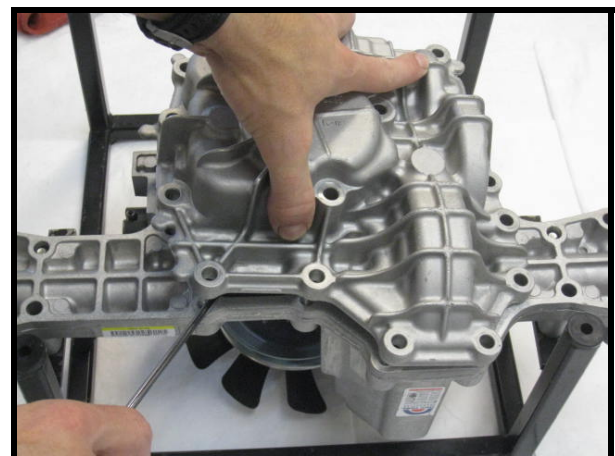
5. Remove (16) case retainer bolts with a 12 mm socket wrench.



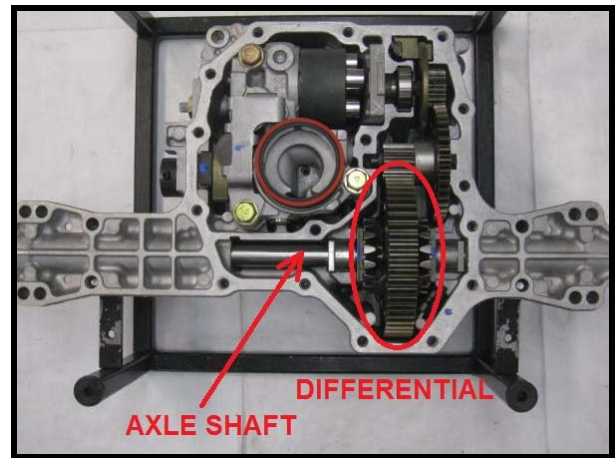
6. Separate upper & lower cases by prying them apart at tabs with a screw driver.



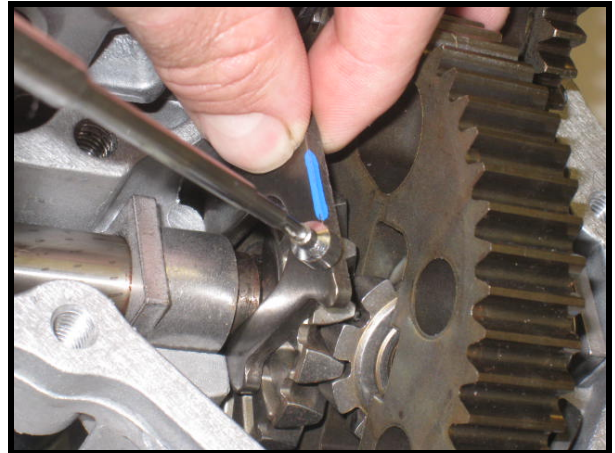
7. Lift lower case from upper case.



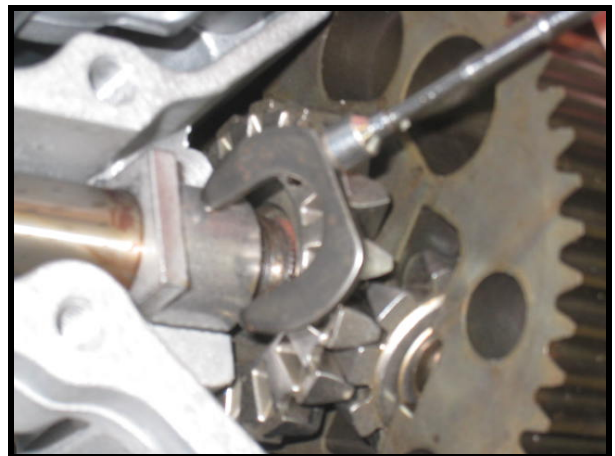
8. Axle shaft must be detached from differential in order to remove it.



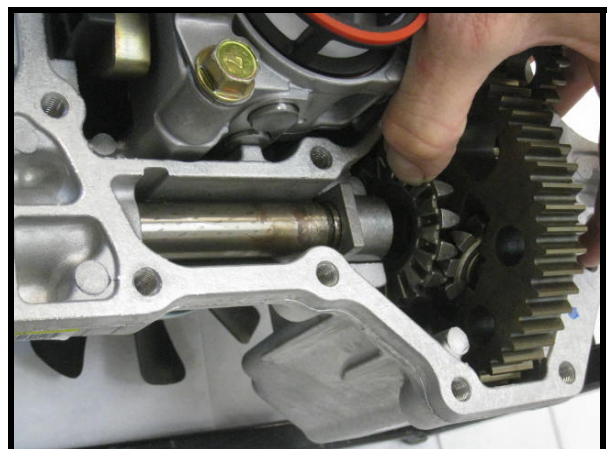
9. Remove thrust washer. Easiest to grasp with a magnet.



10. Pull outward on axle relieving retainer ring from recess of side gear. Lift ring from axle groove with a magnet.

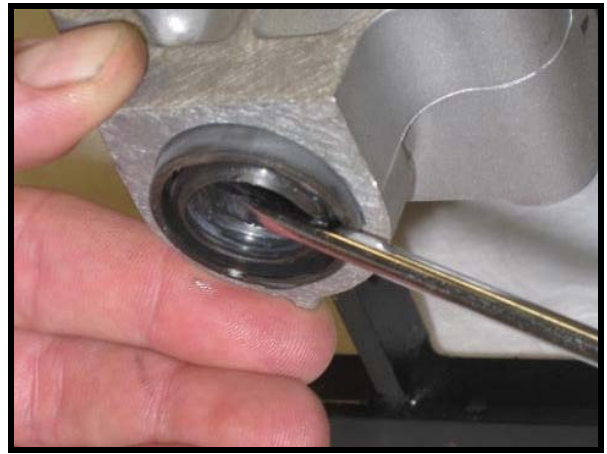


11. Pull axle completely out of transmission housing.





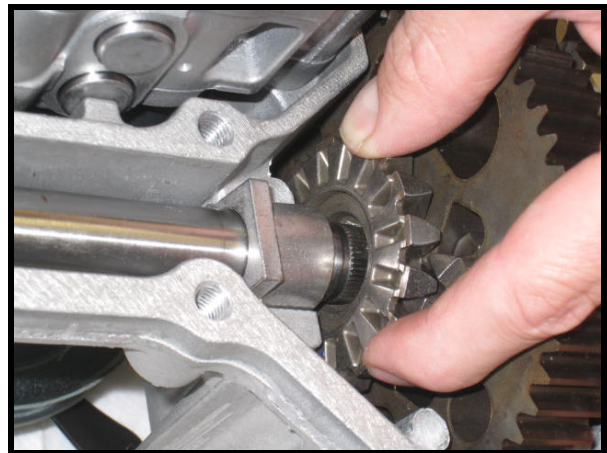
12. Remove (axle) oil seal from transmission case.



13. Insert new axle shaft into transmission case.



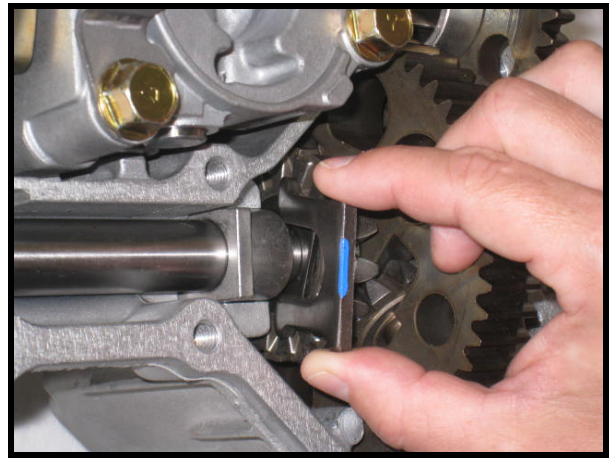
14. Engage axle with differential by aligning splines on end of axle shaft with splines in bore of side gear.



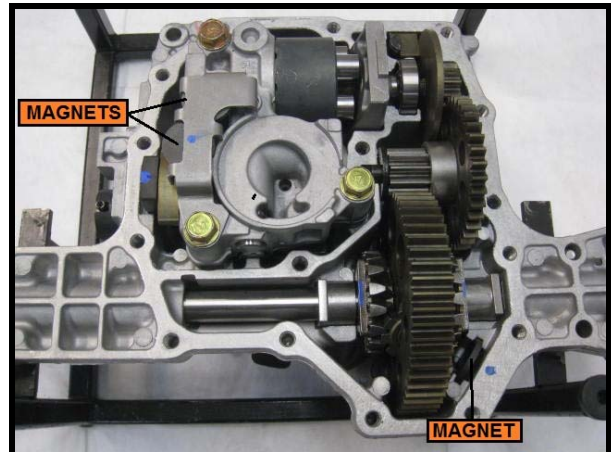
15. Install retainer ring in groove of axle shaft. Then, shift axle so that ring is captured in recess of side gear.



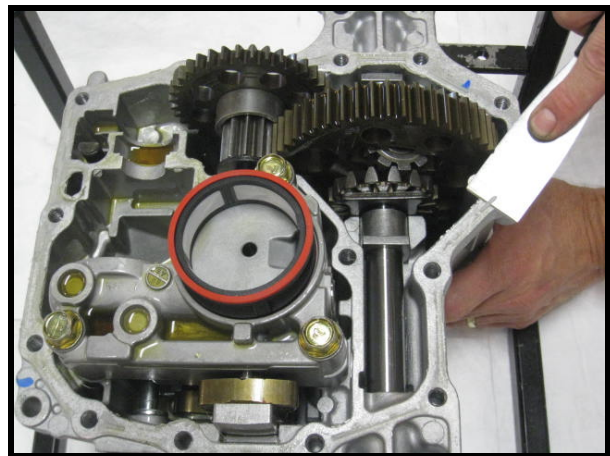
16. Install thrust washer between (inner) axle bushing and diff. side gear.



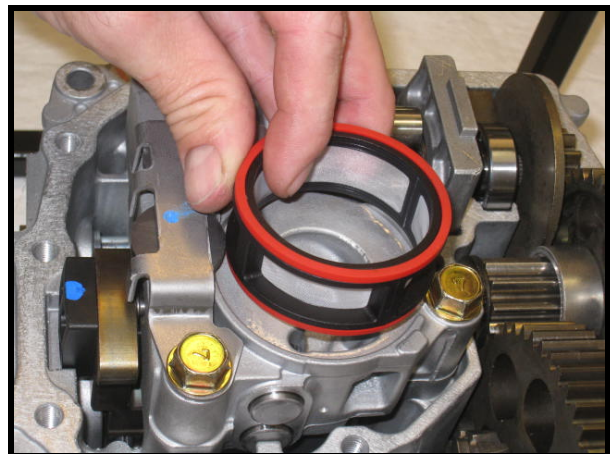
17. Clean metallic particles from the (3) magnets shown.



18. Clean old sealant from upper case flange.



19. Replace filter.



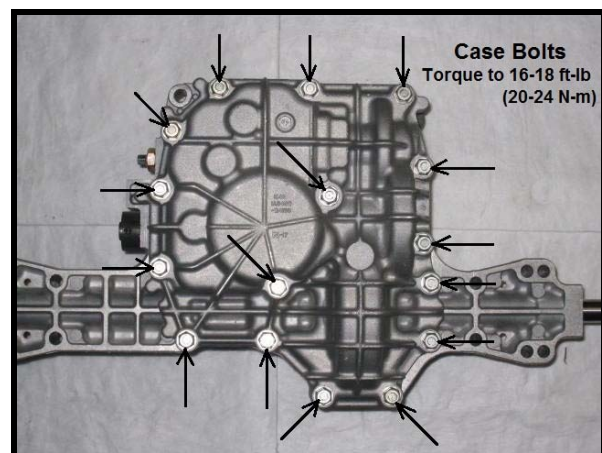
20. Remove old sealant from flange of lower case.



21. Apply a bead of sealant 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.



22. Install and tighten the (16) case bolts.



23. Wrap tape around the axle starting inboard and ending at tip of shaft in order to cover keyway and protect double lips of new seal during installation.

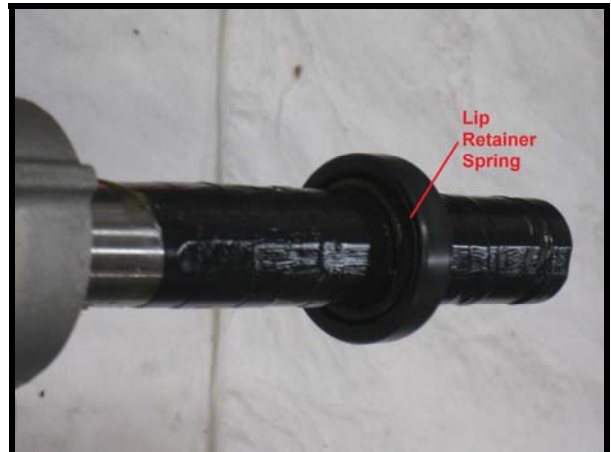




24. Apply a generous coating of grease between the double lips of new seal and over the newly applied tape on axle.



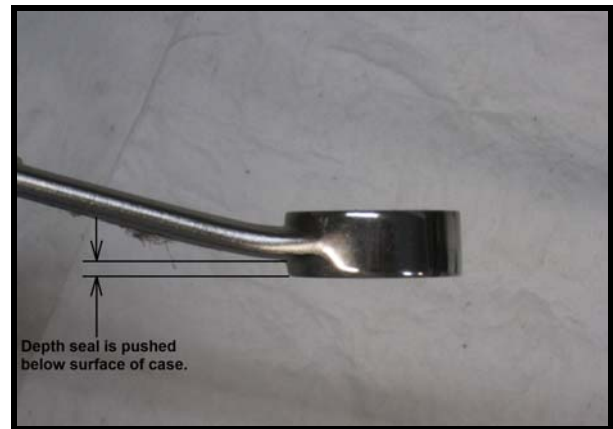
25. Slide seal onto wrapped axle shaft. Seal side with lip retainer spring should be on inboard side.



26. After manually pressing seal into case, tap around outer rim of seal with a hammer.



27. Use a box end wrench with outer diameter near same size as seal to drive the seal to its final resting position.



28. Tap against end of wrench to drive seal about 1/8" below surface of housing, to the depth where chamfer on case port ends.



29. Remove tape after seal has been installed.

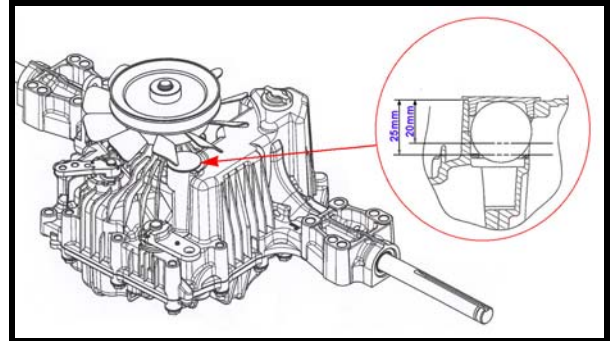




30. Pour new oil into transmission through the access port as shown. Use SAE 5W50 synthetic motor oil included in kit.

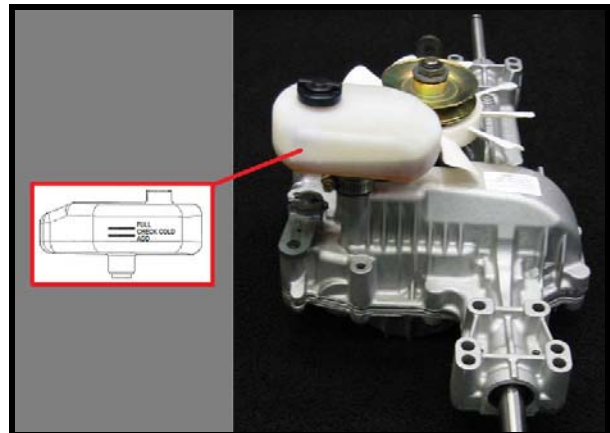


- 31a. Oil should be added until the level reaches between 20-25 mm (3/4" - 1") from lip of port.

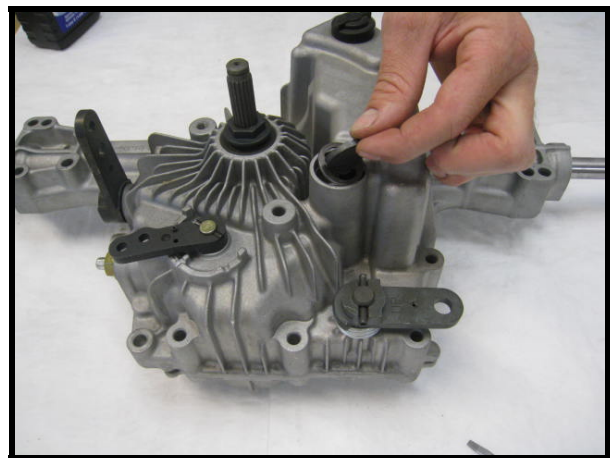


- 31b. For transmissions with external or remotely located expansion reservoir, oil should be added to the level marked on tank and/or indicated in operators manual.

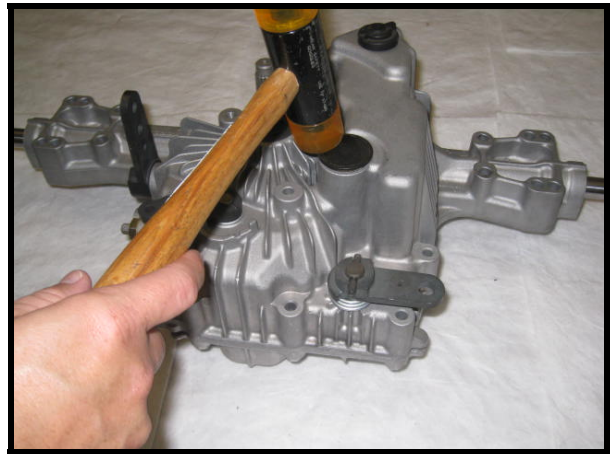
One expansion tank example is shown at right.



32. After cleaning reinstall magnet into access port.



33. Install new plug and seat with a mallet.



34. Reinstall the fan & pulley stack-up onto the pump (input) shaft. Be sure the components are arranged in the same order as they were removed.

