



Spicer® Drive Axles

P/N: SHAIS193

D170 Output Shaft Bearing Cup Replacement Procedure

Affected Models: **D170 Drive Axles**

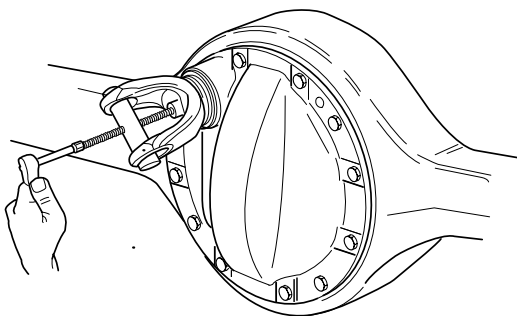
This repair procedure should be followed when retro fitting a Dana D170 forward carrier output shaft assembly with an industry standard 382A (Dana p/n 139980) design outer bearing cup. In this repair a unique housing spacer (Dana p/n 139979) is also required and is located between the outer bearing cup and the snap ring. It's important to follow all of the instructions to insure a proper repair. The service kit contents and procedures are listed below.

New Service Repair Kit: **504054 Kit - D-Housing Repair**

1 - Oil seal	210737
2 - Bearing cone	131211
1 - Bearing cup (inner)	131212
1 - Bearing cup (outer)	139980
1 - Housing spacer	139979
1 - Output nut	128049
1 - Snap Ring (.094")	078937
1 - Instruction sheet	shais193

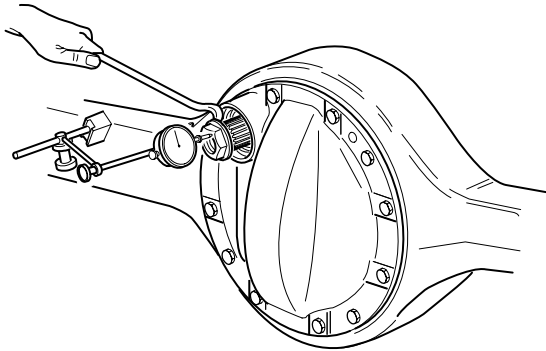
Procedure:

1. Block the wheels of the steer axle front and rear.
2. Disconnect the inter-axle driveshaft at the output yoke position.
3. Disconnect the driveshaft from the pinion yoke and remove driveshaft.
4. Remove the output shaft flanged nut and discard.
5. Remove the output yoke using appropriate puller.

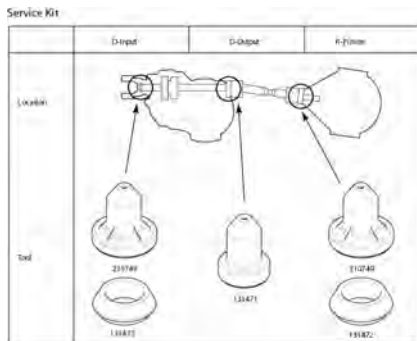


6. Remove the output shaft oil seal and discard.
7. Remove output shaft snap ring and discard.
8. Remove the output shaft and original outer bearing cup. The original cup can be discarded.
9. **Tip:** It may be helpful to loosely reinstall the yoke and output nut giving the technician more of an area to grip when removing the output shaft.

10. With a press, remove both the inner and outer bearing cones from the output shaft.
11. Install the new inner bearing cone onto the output shaft so that the large end is facing towards the threaded end of the shaft. Now install the outer bearing cone so that the large end is facing the inner bearing, the large ends of the bearings should be back to back. Using a press and sleeve, press the bearings and space until the inner bearing race is fully seated against the shoulder of the shaft. Be careful not to damage the bearing cages during the pressing operation.
12. Before the output shaft assembly is installed inspect the inner cup for damage. If any pitting or contamination damage (denting) is found, replace the cup.
13. Apply a thin layer of lubricant to the bearing rollers then install the output shaft assembly into the housing.
14. Install the replacement outer bearing cup making sure it is fully seated against the bearing cone.
15. Now install the new housing spacer. The spacer should be installed between the outer bearing cup and the snap ring.
16. Install the snap ring.
17. With a dial indicator measure the output shaft endplay it should be .001" and .015".



18. Install the oil seal. Use the proper seal driver when installing the seal. Dana part number 131471.



19. Reinstall the output yoke.
20. Install new output shaft nut and torque to 800 – 1000 ft. lbs. (1084 – 1355 N.M).
21. Install the new inter-axle driveshaft supplied.
22. Grease both U-joints making sure grease is purged from all positions.

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Or visit our web site at: <http://www.ur.kgtr.ctvu.com>