

1963-1982 Corvette Driveshaft/Halfshaft U-Joint Removal Tool

1. On a stable surface jack up and support your Corvette at the factory hard points giving yourself an adequate amount of work space.
2. Remove the rear halfshaft by removing the bolts at the differential mounting flange, and the bolts at the axle mounting flange.
3. Remove the driveshaft by pulling the top of the tire outward
4. Remove the snap rings from the ends of the u-joint bearing caps
5. Soak the bearings caps with penetrating oil.
6. Open the vise or press and insert the halfshaft with the donut and plug over the bearing cap.
7. Press out the u-joint or until the cross bottoms out against the halfshaft bearing support structure.
8. Remove the halfshaft, plug and donut from the press or vise.
9. Install the bearing cap puller over the exposed bearing cap and tighten the socket head cap screws.
10. Use the slide hammer to pull the bearing cap out of the yoke. Repeat for the opposite cap.
11. Clean the halfshaft bearing cap structure and the companion flange with a wire brush, steel wool etc.
12. Make sure that the retainer grooves are clean and burr free.
13. Soak the end of the halfshaft with penetrating oil.
14. Install the u-joint into the companion flange first.
15. Install one bearing cap about ½ way being careful not to lose the needle bearings.
16. Insert the cross into the bearing cap and press the bearing cap in.
17. Install the second bearing cap making sure that the bearing cap aligns with the cross. Failure to do this will destroy the needle bearings.
18. Using the plug press one of the bearings caps into the companion flange or halfshaft so that the snap ring can be installed.
19. Install the snap ring in this side.
20. Using the plug press the remaining bearing cap into the companion flange or halfshaft to a depth allowing installation of the second snap ring.

Note: The plug and donut are made of a medium hard steel and are designed to deform protecting the bearing cap and halfshaft. These are considered perishable and are available as a replacement part.

