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Rough Country 5099.1 Installation Instructions

CV Drive Shaft for Jeep Wrangler JK Unlimited 4WD

Part number: 5099.1

trailfortress.com/cv-drive-shaft-jeep-wrangler-jk-unlimited-4wd-rough-country-5099-1

Scan for fitment, price and install help

92RC5096

ROUGH COUNTRY SUSPENSION SYSTEMS®

JK DRIVESHAFT INSTALLATION INSTRUCTIONS

Rough Country recommends a certified technician installs this component. In addition to these instructions, professional knowledge of disassemble/reassembly procedures as well as post installation checks must be known. Attempts to install this component without this knowledge and expertise may jeopardize the integrity and/or operating safety of the vehicle. Please read all the instructions before beginning the installation. Be sure you have all the needed parts and understand where they go. If you have any questions please call us at 800-222-7023.

⚠WARNING Make sure the drive shaft does not pull apart at the splines while installing, this can cause the driveshaft to become out of balance and vibrate while on the vehicle.

SHAFT SHOWN UNPAINTED. SHAFT IS BLACK IN COLOR

FRONT SHAFT



Tools Needed
1/2" wrench
1 1/8" socket
1 1/4" socket
Rubber Mallet
Thread locker
Torque Wrench
Grease Gun
Grease Needle

Transfer Case Yoke



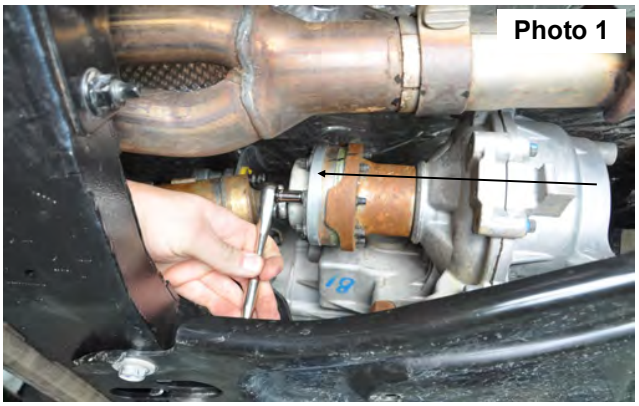
Differential Yoke



PRODUCT USE INFORMATION

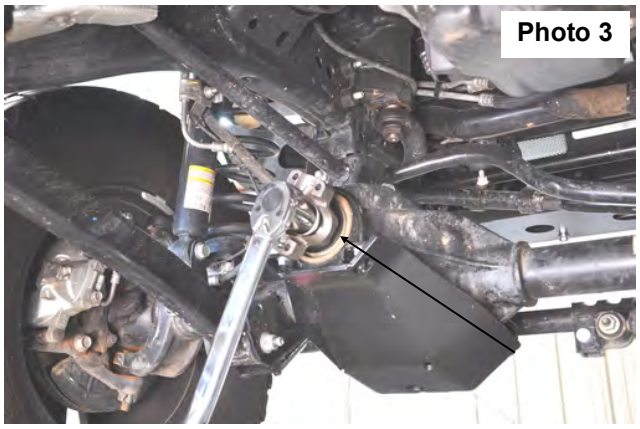
For reference, front driveshaft installation is shown. Rear shaft will install the same as front

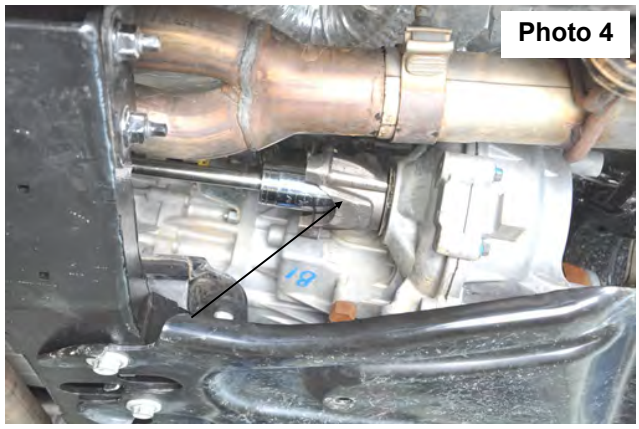
1. Remove the factory driveshaft by removing the shaft form the axle flange and transfer case flange with a 8mm socket. **See Photo 1.** Use a rubber mallet to hit the CV head to separate the driveshaft from the flanges to access the pinion nuts.
2. Remove the pinion flange with a 1 1/8" socket. Retain stock nut for later install. **See Photo 2.**
3. Remove the transfer case CV flange with a 1 1/4" socket. Retain stock nut for later install.



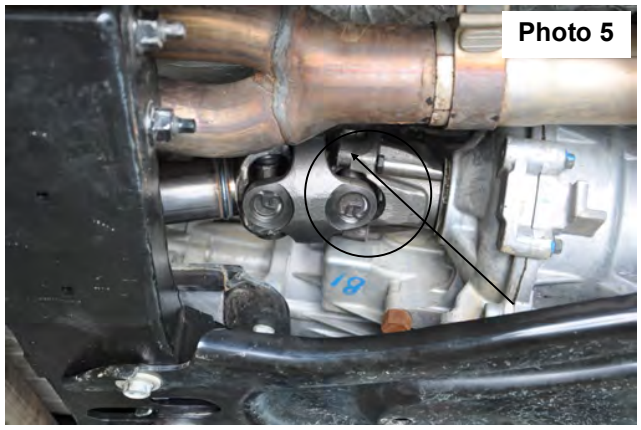


4. Locate the axle yoke (shorter yoke). Slide the supplied yoke over the pinion splines. Apply thread locker on the stock nut and tighten with a 1 1/8” socket to factory torque specs. **See Photo 3**. **Do not exceed factory specifications on this nut.**
5. Locate the transfer case yoke. (longer yoke). Slide the supplied yoke over the transfer case output shaft. Apply thread locker on the stock nut and tighten with a 1 1/4” socket to factory torque specs. **See Photo 4**. **Do not exceed factory specifications on this nut.**





6. Before installing the new driveshaft, inspect to make sure all grease fittings and snap rings are in place. **Do not install if the snap rings are damaged or missing. Make sure all clips are properly engaged on the u-joints**.
7. When installing the u-joint to the CV yoke make sure the cap of the u-joint is seated between the two centering lugs on the yoke. Apply thread locker on the CV bolts and torque to specifications. After install, make sure the cap is pulled up tight into the radius of the yoke. **See Photo 5.** You should **not** see a gap between the cap and yoke after installing.
8. Apply thread locker to the supplied nuts install the u-joint to the pinion yoke. Tighten with a 1/2” wrench.





Fitment / Maintenance

Items to check to ensure optimum drive-shaft operating conditions.

- Torque Bolts or u-joint straps to correct specifications. Note: It is recommended to replace the factory u-joint straps. Over time the straps stretch and allow movement on the u-joint and could lead to damage or u-joint/driveshaft failure.
- Periodic greasing on existing fittings must be performed. Grease the driveshaft after it has been installed and then every 6,000 miles. The drive shaft can also be greased after being exposed to extreme dirt and water. Make sure you use a good quality grease with a temperature rating above 250 degrees Fahrenheit. Greasing the driveshaft is a way of cleaning the internal parts of the u-joints and slip splines. Slowly pump grease into each fitting until you see a small amount of clean grease pass through the rubber seal. A grease needle will be needed to adapt the grease gun for the shorter check ball fittings.
- Ensure all snap rings if applicable are locked in place.
- Make sure the driveshaft is operating as it should with the proper driveline angles.
- Periodically inspect the driveshaft after off road use.
- Always check fitment of driveshaft!! If shaft is totally compressed upon installation, check to make sure all arms are adjusted to the specified lengths and all components are seated correctly. Adjust components as needed. Make sure the shaft has movement in the slip yoke to avoid damaging driveshaft components. Running the shaft at full collapse or full extension could cause premature wear and possible driveshaft failure.





Thank you for choosing a Rough Country drive shaft.

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