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PAUL REDEHOFT

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2001 Kia Truck Sportage 4WD 2Dr L4-2.0L

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Service and Repair

[Notes](#)

ON-VEHICLE SERVICE

If noise or vibration is present in the vehicle driveline, the driveshaft may be out of round due to damage. This inspection will help determine if the driveshaft and its attaching driveline components are "true" or turning with an absolute minimum amount of lateral movement.

SPLINE BACKLASH

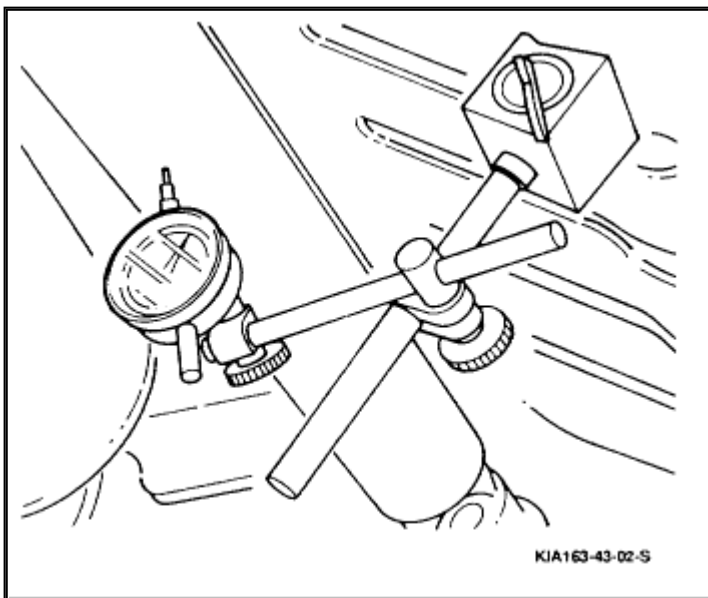
Check for spline backlash by shaking driveshaft back and forth.

LOOSE UNIVERSALS

Check for loose universal yoke bolts and nuts. Tighten if necessary.

DRIVESHAFT DEFLECTION

1. Place transmission in neutral.
2. Raise and support vehicle.
3. Install a dial indicator to the vehicle undercarriage and place the indicator plunger on the driveshaft.



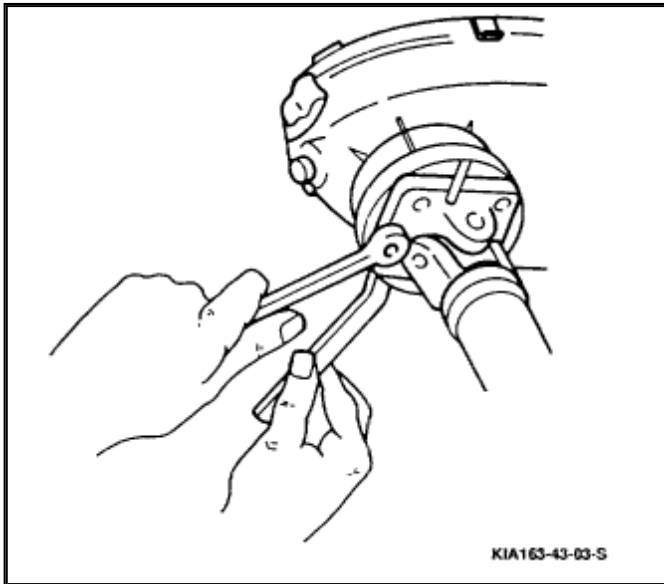
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4. Measure both shafts in three separate locations: At the center and 3 in (76.2 mm) from each yoke weld. Slowly turn one of the wheels to turn the driveshaft and record the highest indicator reading in all three locations.

REMOVAL

1. Raise and support vehicle.
2. Place index marks (reference marks) on the driveshafts and their matching [transfer case](#) and [differential](#) input/output shafts.

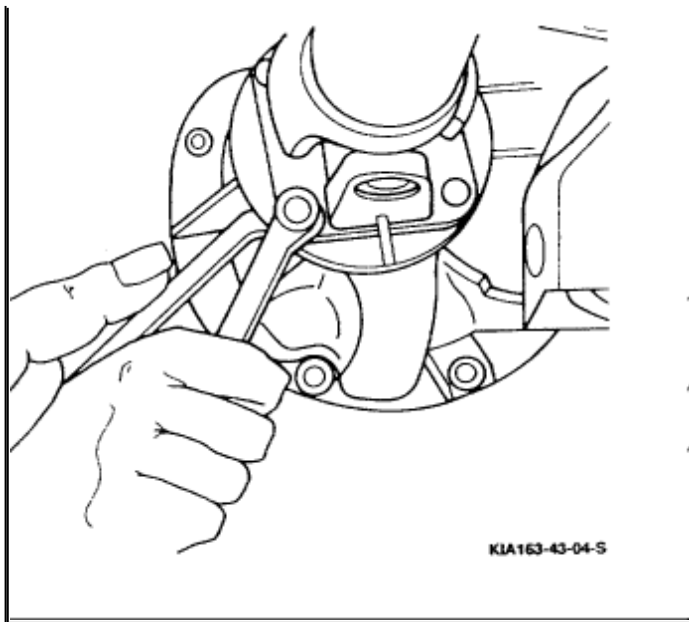


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3. Remove four nuts holding universal flange to [transfer case](#).
4. Remove four nuts holding universal flange to [differential](#).
5. Remove driveshaft.
6. Inspect driveshaft for dents or other damage. If shaft appears damaged, replace it.



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7. Inspect [universal joints](#) for smooth pivoting. If joints bind or appear tight, replace them as assemblies.

[UNIVERSAL JOINT](#)

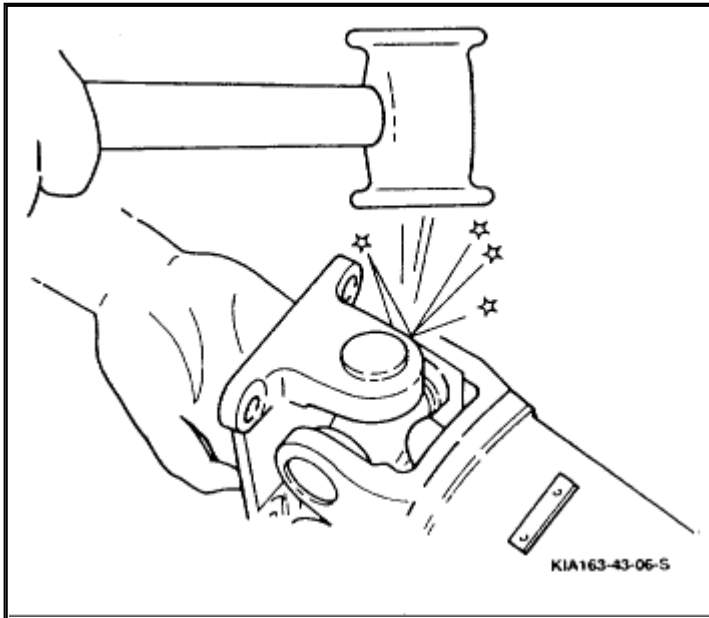
Disassembly

NOTICE: To prevent drive damage, use vise pads.

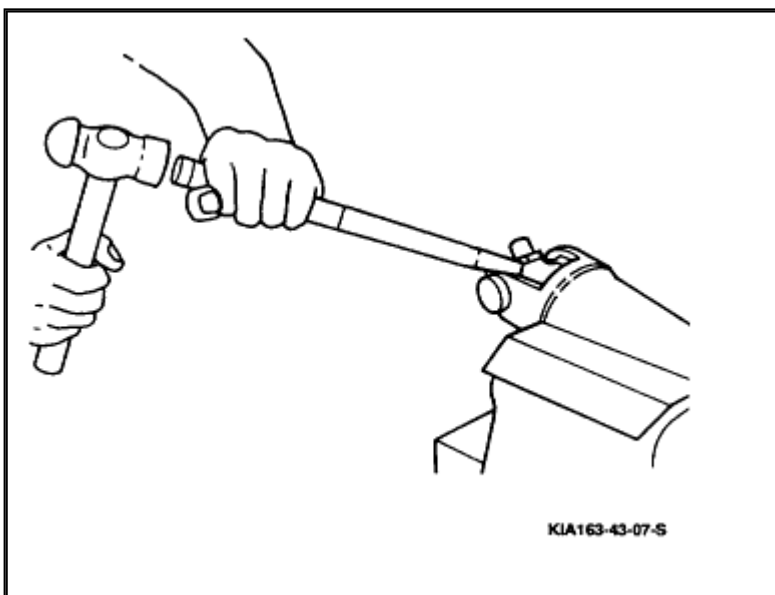
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1. Place driveshaft in vise.

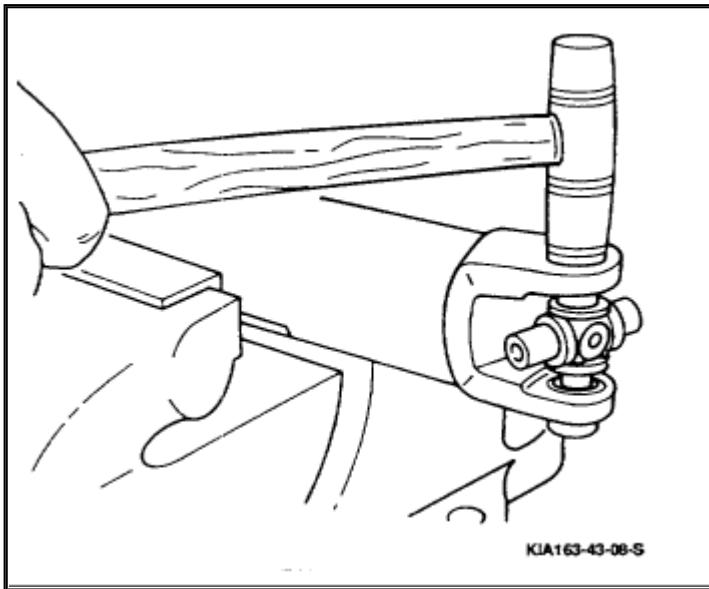
2. For re-assembly purposes, place index marks (reference marks) on the driveshaft, spider and yoke.
3. Using a screwdriver or drift punch, remove and discard all snap rings.
4. Lightly tap with a suitable hammer to remove bearings from the yoke.

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5. Remove the yoke.
6. Using a drift punch and hammer, remove the spider bearings. **Assembly**

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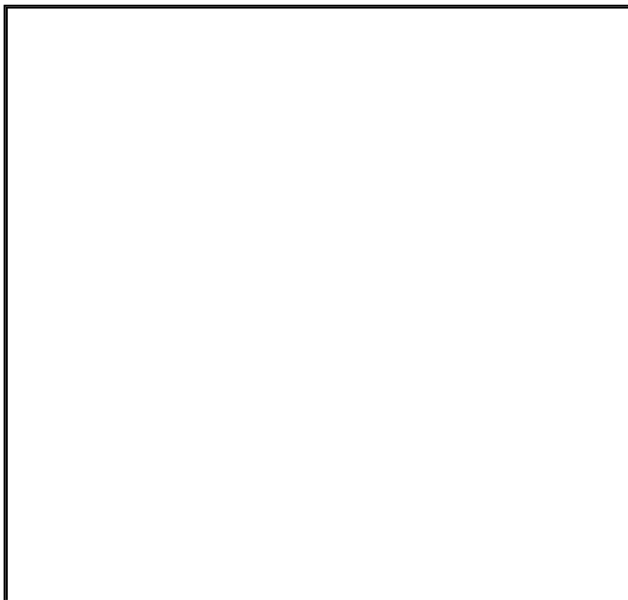
1. Before assembly, coat the inside of the bearing cap, roller, and grease groove hole of the spider with lithium base grease. **NOTICE:** Align the driveshaft and spider index marks.

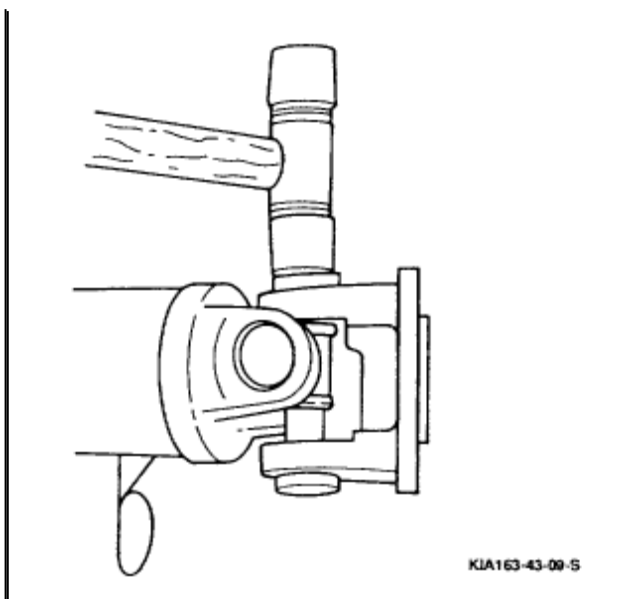
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2. With drive in a vise, place spider in drive yoke. Using a plastic hammer, tap bearing caps onto spider ends.
3. Place mating yoke over open spider ends and, using a plastic hammer, tap remaining bearing caps onto spider ends.
4. Install new snap rings. All four snap rings must be the same thickness.

Inspection

1. Make sure snap rings are completely seated and firm.





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Part no. (Snap ring)	Thickness	
	in	(mm)
1757 25 171	0.0480	(1.22)
1757 25 172	0.0488	(1.24)
1757 25 173	0.0496	(1.26)
1757 25 174	0.0504	(1.28)
1757 25 175	0.0512	(1.30)
1757 25 176	0.0520	(1.32)
1757 25 177	0.0528	(1.34)
1757 25 178	0.0535	(1.36)
1757 25 179	0.0543	(1.38)

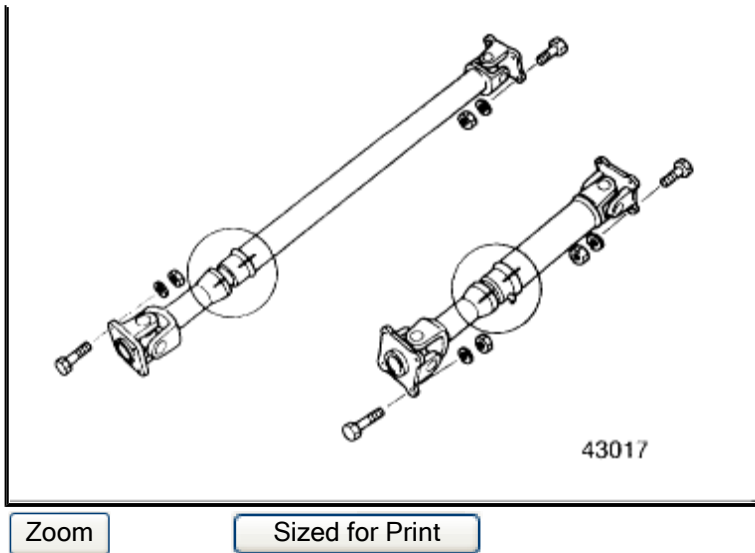
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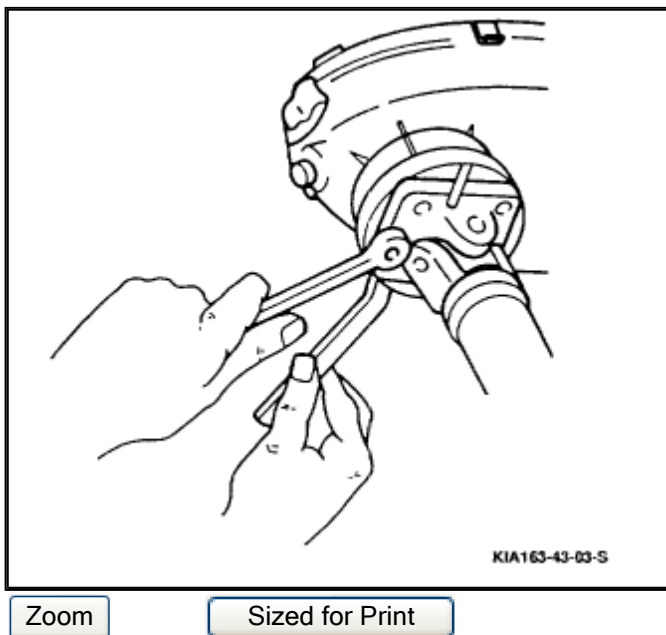
2. Check starting torque with gauge. If the starting torque is not within the specified range, adjust by changing the snap rings to greater or lesser thickness. **Starting torque: 2.6 - 8.7 inch lbs. (0.29 - 0.98 Nm)**

INSTALLATION



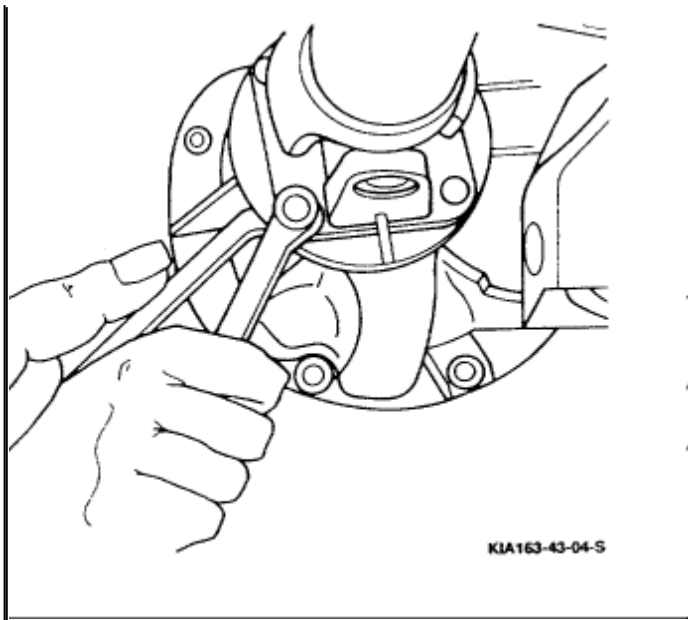


1. Align index marks on the driveshaft.

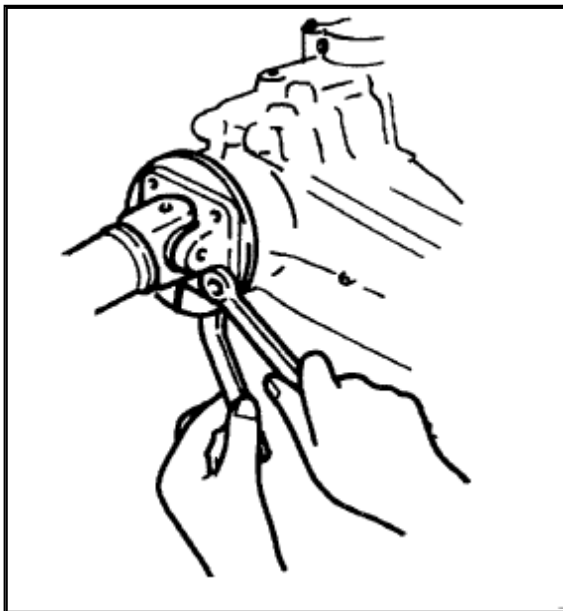


2. Connect front driveshaft flange to [companion flange](#) on transfer.
 - a. Align index marks on the flange and connect the flanges with four bolts and nuts.
 - b. Tighten the bolts and nuts. **Tightening torque: 36 - 43 ft. lbs. (49 - 59 Nm)**



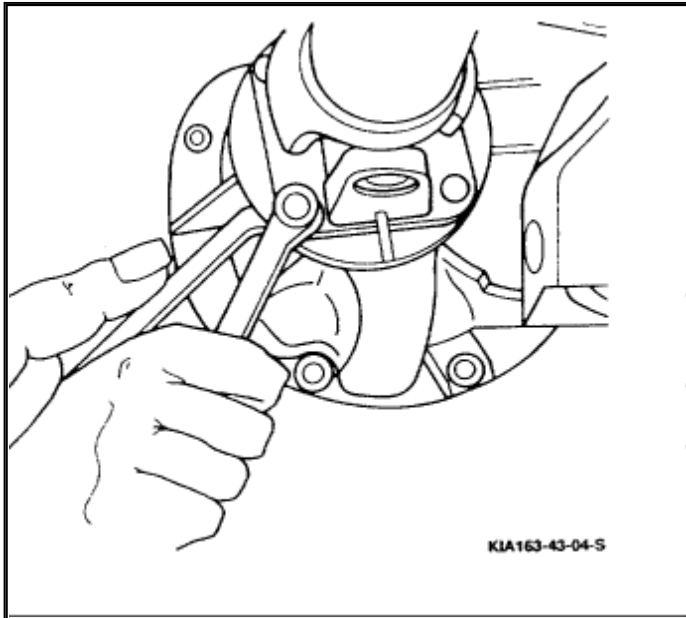
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3. Connect driveshaft flange to [companion flange](#) on front [differential](#)
 - a. Align index marks on the flange and connect the flanges with four bolts and nuts.
 - b. Tighten the bolts and nuts. **Tightening torque: 25 - 27 ft. lbs. (34 - 37 Nm)**

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4. Connect rear driveshaft flange to [companion flange](#) on transfer.

- a. Align index marks on the flange and connect the flanges with four bolts and nuts.
- b. Tighten the bolts and nuts. **Tightening torque: 36 - 43 ft. lbs. (49 - 56 Nm)**

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5. Connect driveshaft flange to [companion flange](#) on rear [differential](#).
 - a. Align index marks on the flange and connect the flanges with four bolts and nuts.
 - b. Tighten the bolts and nuts. **Tightening torque: 25 - 27 ft. lbs. (34 - 37 Nm)**

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