



PROPELLER SHAFT AND UNIVERSAL JOINTS

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SPECIFICATIONS

GENERAL SPECIFICATIONS

mm (in.)

Propeller shaft

Type

Two-joint type

Length × O.D.

Vehicles with an manual transmission

722 × 75 (28.4 × 2.9)

Vehicles with a automatic transmission

538 × 75 (21.2 × 2.9)

Universal joint

Type

Cross type

Bearing

Lubrication-free needle roller bearing

Journal O.D.

14.7 (.58)

SERVICE SPECIFICATIONS

mm (in.)

Standard value

Journal axial play

0.06 (.0024)

Limit

Propeller shaft runout (Dial indicator reading)

0.6 (.024)

TORQUE SPECIFICATIONS

Nm (ft.lbs.)

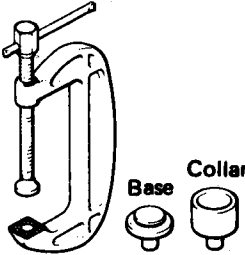
Flange yoke attaching bolts

50–60 (36–43)

LUBRICANTS

	Specified lubricant	Quantity
Universal joint	MOPAR Multi-Mileage Lubricant Part No. 2525035 or equivalent	As required
Sleeve yoke surface	MOPAR Hypoid Gear Oil or equivalent	As required



Tool (Number and name)	Use
<p data-bbox="118 275 500 359">MB990840 Universal joint remover and installer set</p>  <p data-bbox="341 525 462 619">Base Collar</p>	<p data-bbox="500 275 820 346">Removal and installation of journal bearing</p>

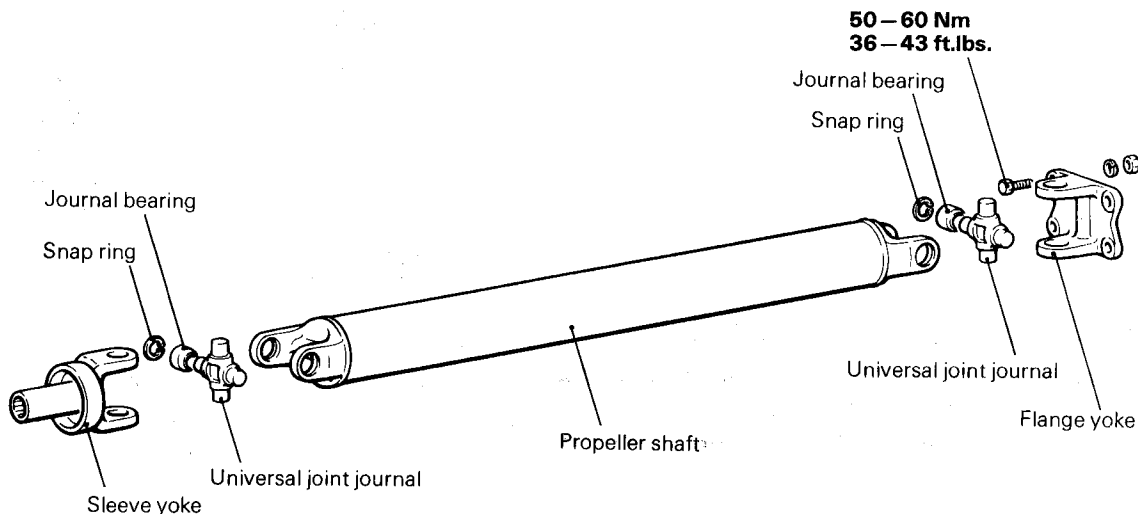


TROUBLESHOOTING

Symptom	Probable cause	Remedy
Abnormal sound	Universal joint bearings worn, damaged or broken Sleeve yoke loose in transmission Universal joint yokes worn or broken	Replace
	Companion flange bolts loose	Torque to specifications
Vibration	Universal joints worn, damaged or broken Sleeve yoke loose in transmission Propeller shaft bent, distorted or damaged Universal joint yokes out of phase	Replace
	Companion flange bolts loose	Torque to specifications



COMPONENTS



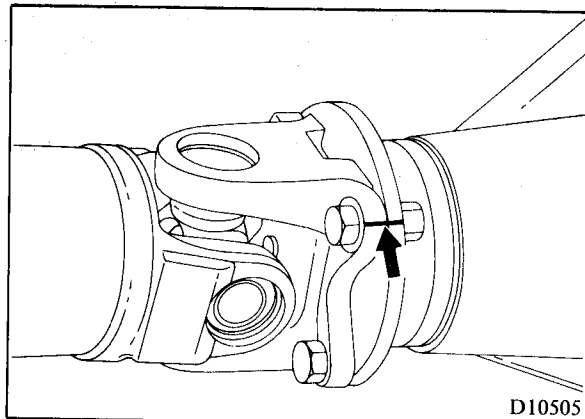
D10523

REMOVAL

1. Scribe mating marks on the flange yoke and the differential companion flange. (D10505)
2. Remove 4 bolts and disconnect the flange yoke from the differential companion flange.
3. Remove the propeller shaft from the transmission.

Caution

Use care not to damage the lip of transmission oil seal.
Do not allow foreign matter to enter the transmission.

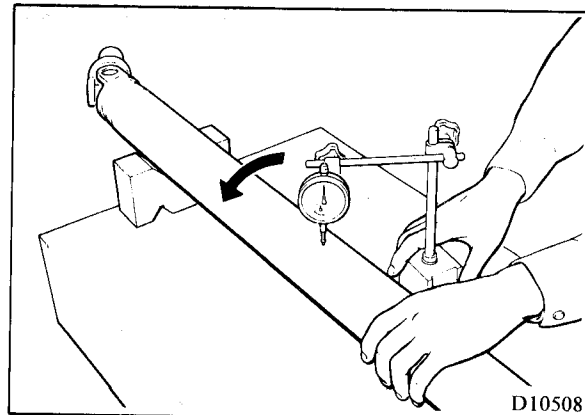


D10505

INSPECTION

1. Check sleeve yoke and flange yoke for wear, damage or cracks.
2. Check propeller shaft yokes for wear, damage or cracks.
3. Check propeller shaft for bends, twisting or damage. (D10508)

Propeller shaft runout (Dial indicator reading)	
[Limit]	0.6 mm (.024 in.)

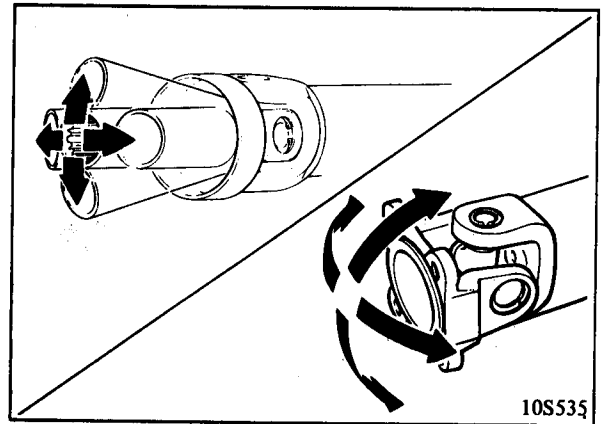


D10508



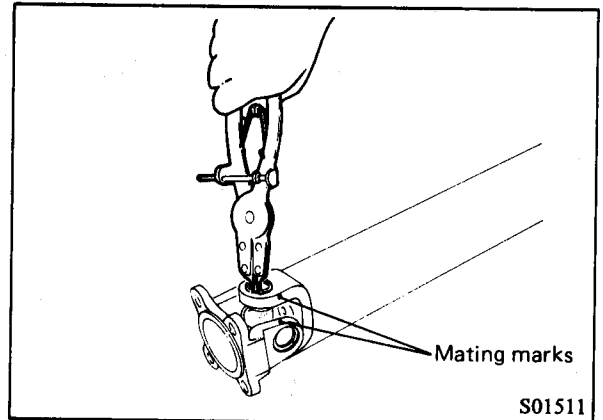
COMPONENT SERVICE – PROPELLER SHAFT AND UNIVERSAL JOINTS

4. Check universal joints for smooth operation in all directions.



UNIVERSAL JOINT REPLACEMENT

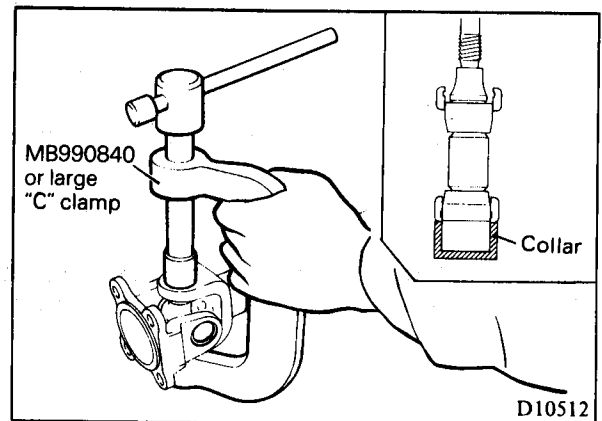
1. Scribe mating marks on the yokes of the universal joint that is to be disassembled. (S01511)
2. Remove the snap rings from the yoke with snap ring pliers. (S01511)



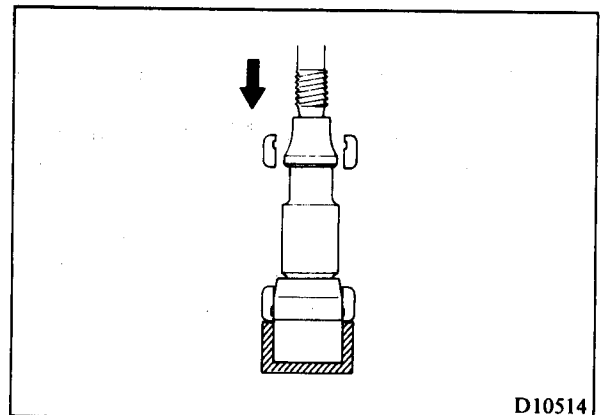
3. Press the journal bearings from the propeller shaft yoke with special tool or large "C" clamp. Use the collar as illustrated. (D10512)

NOTE

If the journal bearing is hard to remove, strike the yoke with a plastic hammer.



4. Separate the universal joint from the yokes.



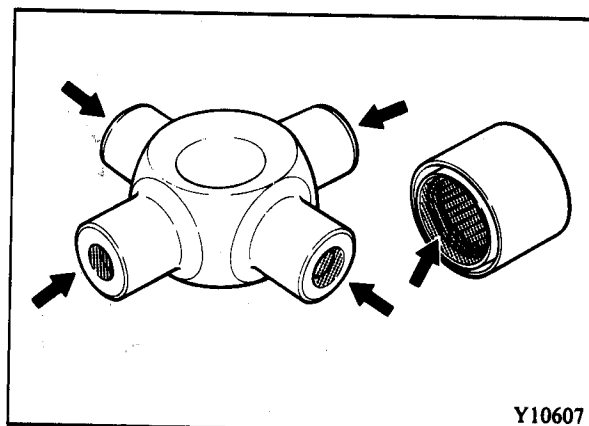


5. Apply specified multipurpose grease to the following parts of universal joint kit:
- (1) Shafts and grease sumps of journal
 - (2) Dust seal lips
 - (3) Needle roller bearings

Specified multipurpose grease
MOPAR Multi-Mileage Lubricant
Part Number 2525035 or equivalent

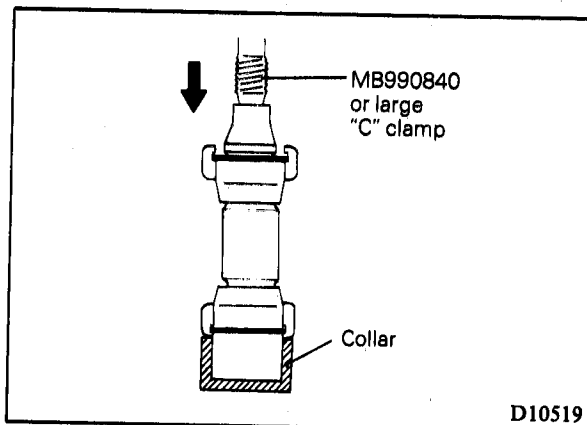
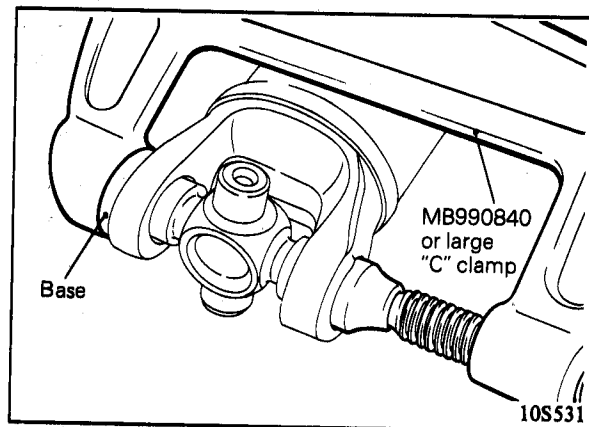
Caution
Use of excessive amounts of grease may result in difficulty in assembling unit and incorrect selection of snap rings.

6. Press the journal bearings to the yoke with the special tool and the base as illustrated. Be sure to align the mating marks on the yokes.



7. Install snap rings of same thickness onto both sides of each yoke.
Press the bearing and journal to one side by using the special tool. (D10519)
8. Measure the clearance between the snap ring and the groove wall of yoke with a feeler gauge. (Y10610)

Journal axial play [Limit]
0—0.06 mm (0— .0024 in.)



INSTALLATION

1. Apply hypoid gear oil to the sleeve yoke and install the propeller shaft into the transmission.

Specified hypoid gear oil
MOPAR Hypoid Gear Oil or equivalent

2. Align the mating marks on the flange yoke and the differential companion flange.
3. Install bolts and torque to specifications.

Flange yoke bolts tightening torque
50—60 Nm (36—43 ft.lbs.)

