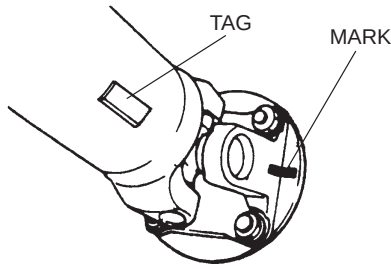


FRONT PROPELLER SHAFT (4 × 4)

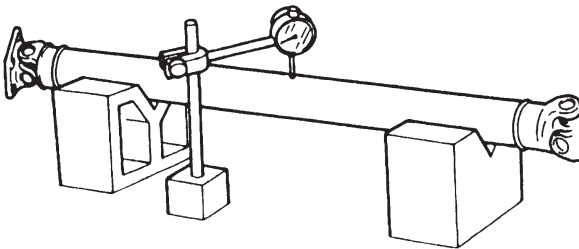


FRONT PROPELLER SHAFT INSPECTION

1. Measure the front propeller shaft runout using a dial indicator.

Runout

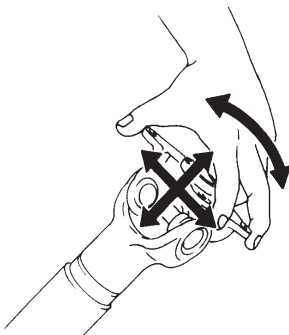
0.4 mm {0.016 in} max.



2. If the runout is excessive, replace the front propeller shaft.
3. Move the universal joint in the direction shown, and inspect the joint play.

Note

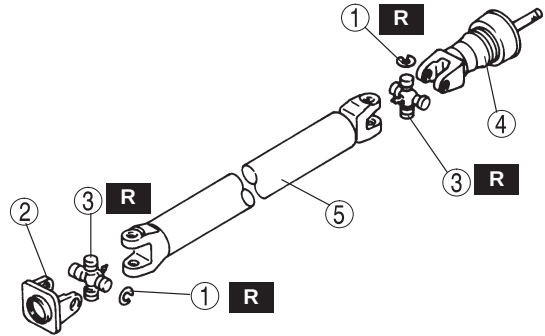
- Starting torque
0.3—0.7 N·m
{3.0—8.0 kgf·cm, 2.7—6.9 in·lbf}



4. If there is excessive play or the starting torque is not within the specification, repair the front propeller shaft.
(Refer to FRONT PROPELLER SHAFT (4 × 4), FRONT PROPELLER SHAFT DISASSEMBLY/ASSEMBLY.)

FRONT PROPELLER SHAFT DISASSEMBLY/ASSEMBLY

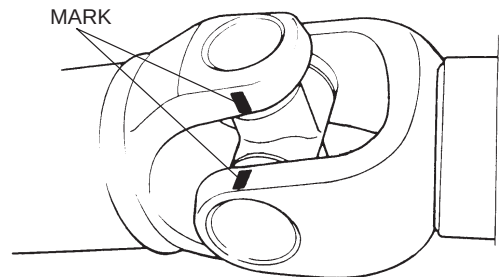
1. Disassemble in the order indicated in the table.
2. Assemble in the reverse order of disassembly.



1	Snap ring + Disassembly Note
2	Universal joint yoke
3	Universal joint + Disassembly Note + Assembly Note
4	Sliding yoke
5	Propeller shaft

Snap ring Disassembly Note

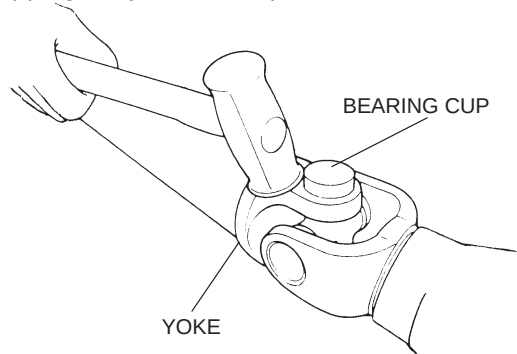
1. Mark the yoke and propeller shaft for proper reassembly.



2. Clamp the propeller shaft in a vise.
3. Remove the snap ring.

Universal joint Disassembly Note

1. Push one bearing cup out of the propeller shaft by tapping the yoke with a plastic hammer.

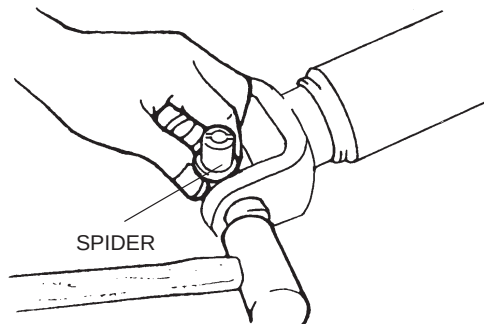


FRONT PROPELLER SHAFT (4 × 4)

1. Remove the opposite bearing cup in the same manner.
2. Separate the propeller shaft and yoke.
3. Clamp the yoke in a vise.
4. Remove the bearing cups and the spider from the yoke in the same manner as in Steps 1 and 2.

Universal joint Assembly Note

1. Verify that the inside of the bearing cup is filled with **1.15—1.45g {0.04—0.05 oz}** grease. Add the specified amount of disulphide molybdenum grease as necessary.
2. Set the new spider into the yoke and tap in a new bearing cup until the snap ring groove is exposed.

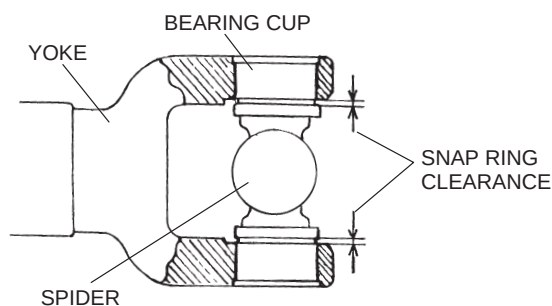


3. Measure the snap ring clearance, then select and install two new snap rings of equal thickness.

Snap ring thicknesses

mm {in}

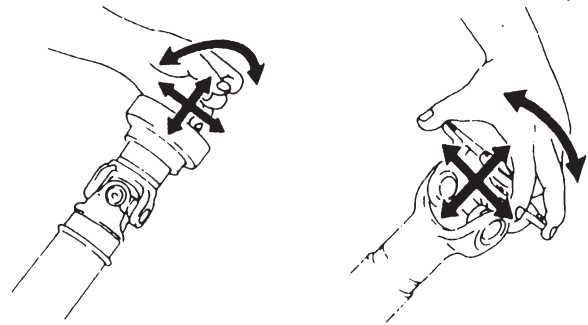
1.22 {0.0480}	1.32 {0.0520}
1.24 {0.0488}	1.34 {0.0528}
1.26 {0.0496}	1.36 {0.0536}
1.28 {0.0504}	1.38 {0.0543}
1.30 {0.0512}	



4. Install the remaining bearing cups and snap rings as in Steps 1—3.
5. Move the universal joint in the direction shown, and inspect joint play.

Note

- Starting torque
0.3—0.7 N·m
{3.0—8.0 kgf·cm, 2.7—6.9 in ·lb}



6. If there is excessive play or the starting torque is not within the specification, replace the front propeller shaft.