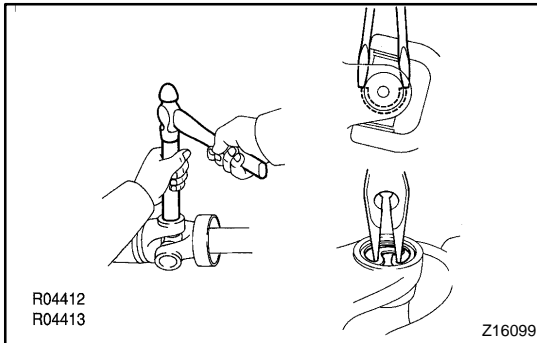


SPIDER BEARING REPLACEMENT

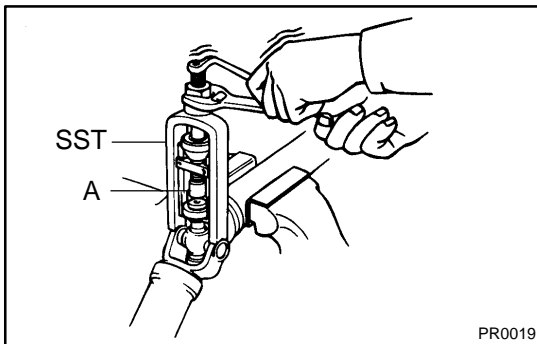
PR08F-01

1. PLACE MATCHMARKS ON SHAFT AND YOKE



2. REMOVE SNAP RING

- Using a brass bar and hammer, slightly tap in the bearing outer race.
- 4WD rear propeller shaft:
Using 2 screwdrivers, remove the 4 snap rings from the grooves.
- 2WD and 4WD front propeller shaft:
Using needle nose pliers, remove the 4 snap rings from the grooves.



3. REMOVE SPIDER BEARING

- Using SST, push out the bearing from the flange yoke.
SST 09332-25010

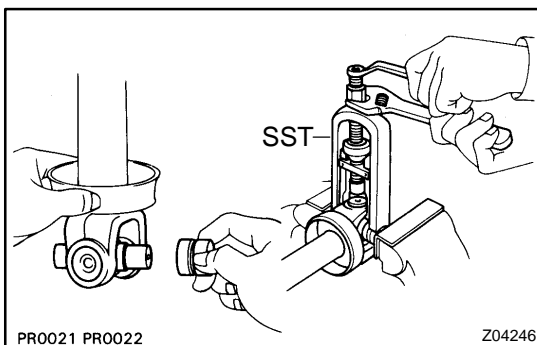
HINT:

Sufficiently raise the part indicated by "A" so that it does not come into contact with the bearing.

- Clamp the bearing outer race in a vise and tap off the flange with a hammer.

HINT:

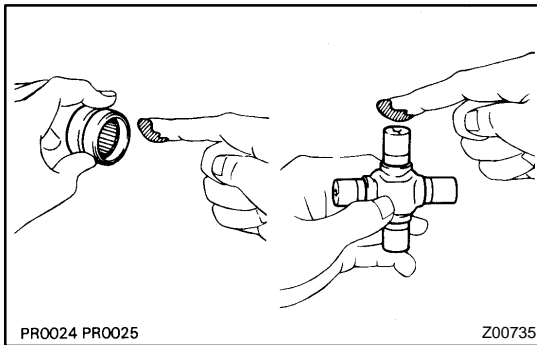
Remove the bearing on the opposite side using the same procedure.



- Install the 2 removed bearing outer races to the spider, and clamp them in a vise.
- Using SST, push out the bearing from the sleeve yoke.
SST 09332-25010
- Clamp the outer bearing race in a vise and tap off the yoke with a hammer.

HINT:

Remove the bearing on the opposite side using the same procedure.



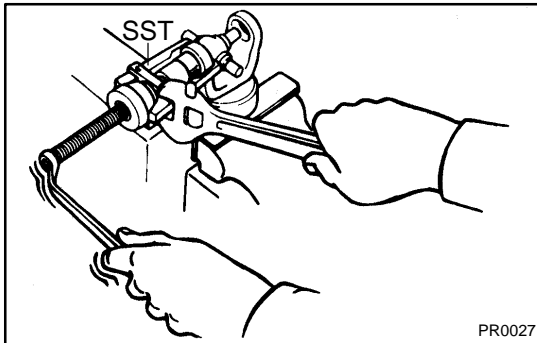
4. INSTALL SPIDER BEARING

- (a) Apply MP grease to a new spider and bearings.

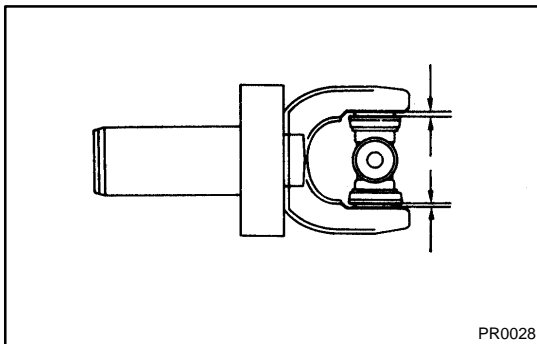
HINT:

Be careful not to apply too much grease.

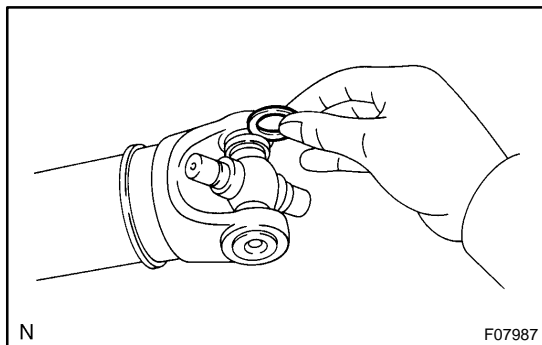
- (b) Align the matchmarks on the yoke and shaft.
(c) Fit the spider to the yoke.



- (d) Using SST, install the bearing to the spider.
SST 09332-25010



- (e) Using SST, adjust both bearings so that the snap ring grooves are at maximum and are equal in width.



5. INSTALL SNAP RINGS

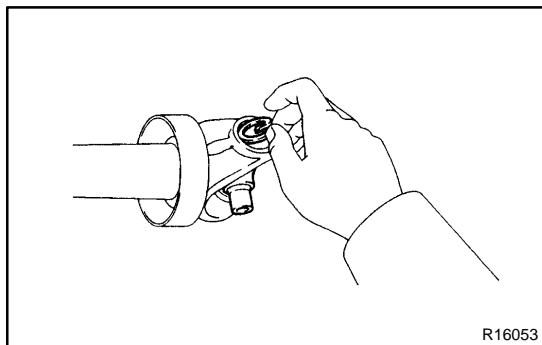
- (a) Install 2 new snap rings of equal thickness which will allow for 0 to 0.05 mm (0 to 0.0020 in.) axial play.

HINT:

Do not reuse the snap rings.

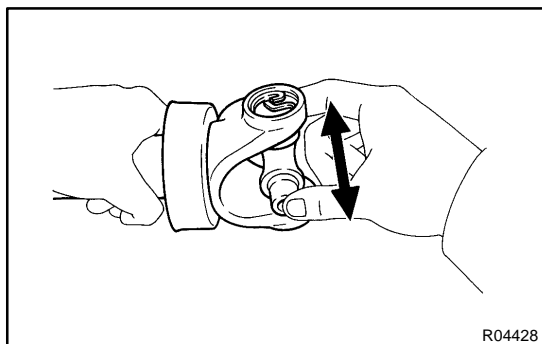
4WD rear propeller shaft:

Color	Mark	Thickness mm (in.)
–	九	2.44 to 2.46 (0.0961 to 0.0969)
–	10	2.46 to 2.48 (0.0969 to 0.0976)
–	1	2.28 to 2.30 (0.0898 to 0.0906)
–	2	2.30 to 2.32 (0.0906 to 0.0913)
–	None	2.32 to 2.34 (0.0913 to 0.0921)
Brown	–	2.34 to 2.36 (0.0921 to 0.0929)
Blue	–	2.36 to 2.38 (0.0929 to 0.0937)
–	6	2.38 to 2.40 (0.0937 to 0.0945)
–	7	2.40 to 2.42 (0.0945 to 0.0953)
–	8	2.42 to 2.44 (0.0953 to 0.0961)
–	J	2.18 to 2.20 (0.0858 to 0.0866)
–	K	2.20 to 2.22 (0.0866 to 0.0874)
–	F	2.22 to 2.24 (0.0874 to 0.0882)
–	G	2.24 to 2.26 (0.0882 to 0.0890)
–	H	2.26 to 2.28 (0.0890 to 0.0898)
–	A	2.48 to 2.50 (0.0976 to 0.0984)
–	B	2.50 to 2.52 (0.0984 to 0.0992)
–	C	2.52 to 2.54 (0.0992 to 0.1000)
–	D	2.54 to 2.56 (0.1000 to 0.1008)
–	E	2.56 to 2.58 (0.1008 to 0.1016)

**2WD and 4WD front propeller shaft:**

Color	Thickness mm (in.)
Blue	1.638 (0.0645)
Yellow	1.588 (0.0625)
Silver	1.537 (0.0605)
Copper	1.511 (0.0595)
Black	1.486 (0.0585)
Red	1.435 (0.0565)
Green	1.384 (0.0545)

- (b) Using a hammer, tap the yoke until there is no clearance between the bearing outer race and snap ring.

**6. CHECK SPIDER BEARING**

- (a) Check that the spider bearing moves smoothly.
 (b) Check the spider bearing axial play.

Maximum bearing axial play:**4WD rear propeller shaft: 0 mm (0 in.)****2WD and 4WD front propeller shaft:****0.05 mm (0.0020 in.)****HINT:**

- Install new spider bearings on the flange side using the procedure described above.

- When replacing the rear propeller shaft spider on 4WD vehicles, be sure that the grease fitting assembly holes are facing in the direction shown in the illustration below.

**SPIDER GREASE FITTING ASSEMBLY DIRECTION
FOR 4WD REAR PROPELLER SHAFT**

