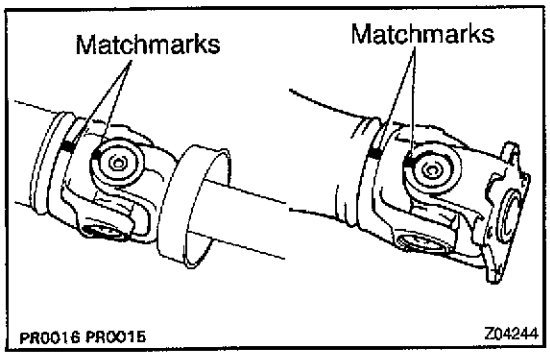
SPIDER BEARING

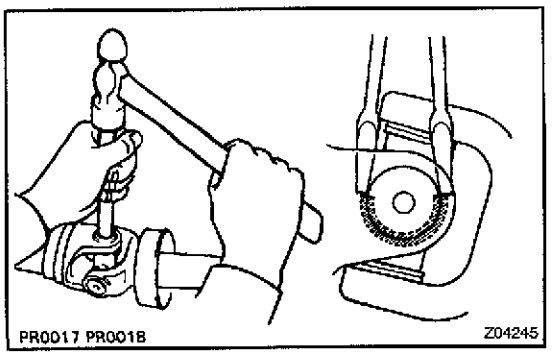
PR027-01

REPLACEMENT

1. **REMOVE PROPELLER SHAFT**
   2WD: (See page PR–3)
   4WD: (See page PR–11)



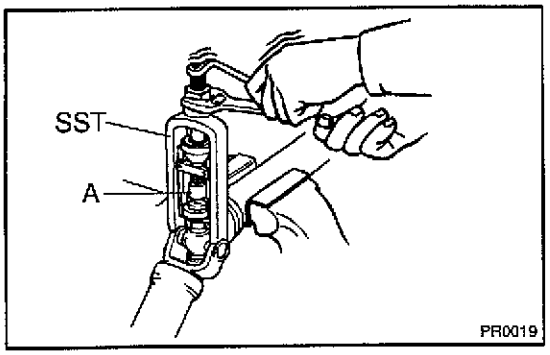
2. **PLACE MATCHMARKS ON SHAFT AND YOKE**



3. **REMOVE SNAP RINGS**

(a) Using a brass bar and hammer, slightly tap in the bearing outer races.

(b) Using 2 screwdrivers, remove the 4 snap rings from the grooves.



4. **REMOVE SPIDER BEARINGS**

(a) Using SST, push out the bearing from the propeller shaft.
SST 09332–25010

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

(b) Clamp the bearing outer race in a vise and tap off the propeller shaft with a hammer.

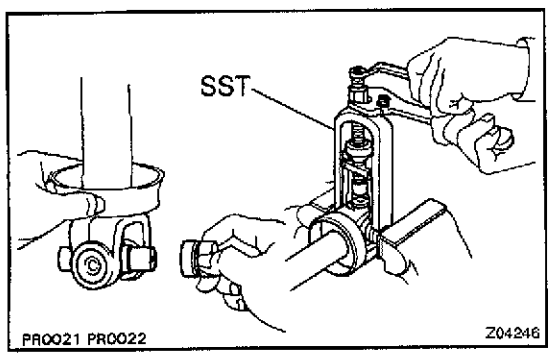
HINT:
Remove the bearing on opposite side in the same procedure.

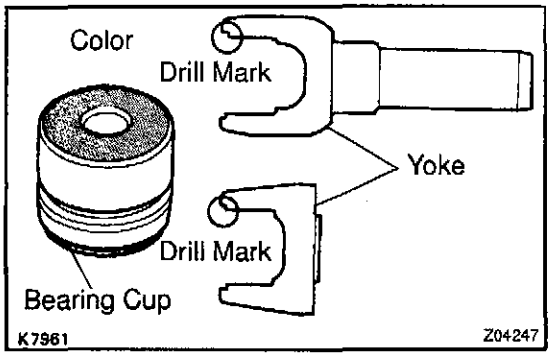
(c) Install the 2 removed bearing outer races to the spider.

(d) Using SST, push out the bearing from the yoke.
SST 09332–25010

(e) Clamp the outer bearing race in a vise and tap off the yoke with a hammer.

HINT:
Remove the bearing on the opposite side in the same procedure.

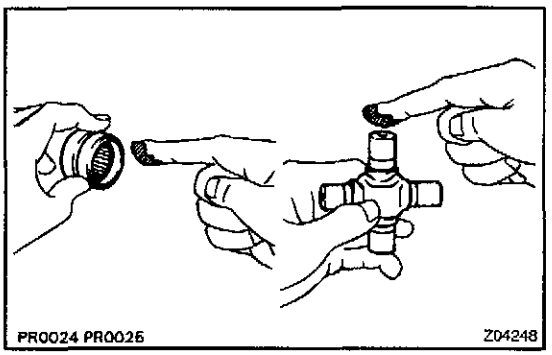




5. SELECT SPIDER BEARING

Select the bearing according to whether or not there is a drill mark on the yoke section.

Yoke	Bearing
With drill mark	With color mark (Red)
No drill mark	No color mark



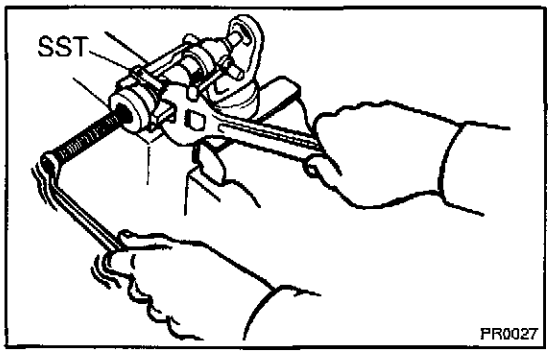
6. INSTALL SPIDER BEARINGS

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

NOTICE:

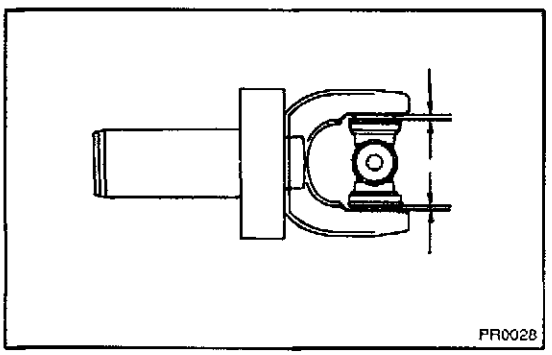
Be careful not to apply too much grease.

(b) Align the matchmarks on the yoke and shaft.

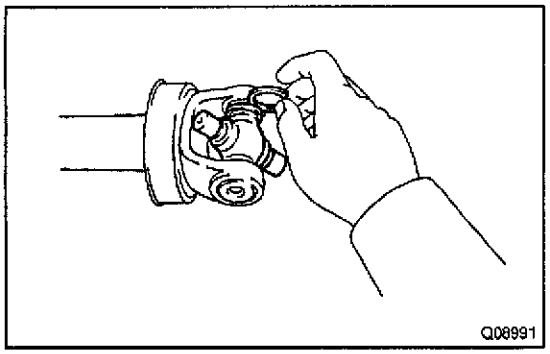


(c) Fit the spider into the yoke.

(d) Using SST, install new bearings on the spider.
SST 09332–25010



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


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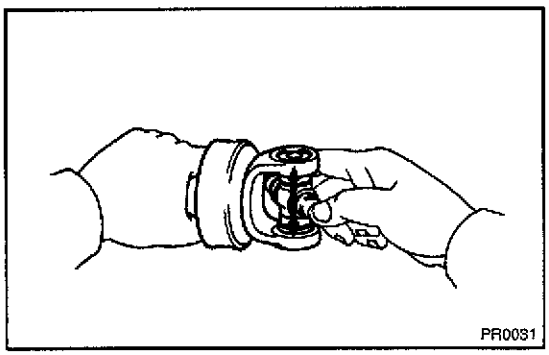
7. INSTALL SNAP RINGS

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

HINT:

Do not reuse the snap rings.

Color or Mark	Thickness mm (in.)
1	2.100 – 2.150 (0.0827 – 0.0846)
2	2.150 – 2.200 (0.0846 – 0.0866)
3	2.200 – 2.250 (0.0866 – 0.0886)
Brown	2.250 – 2.300 (0.0886 – 0.0906)
Blue	2.300 – 2.350 (0.0906 – 0.0925)
6	2.350 – 2.400 (0.0925 – 0.0945)
7	2.400 – 2.450 (0.0945 – 0.0965)
8	2.450 – 2.500 (0.0965 – 0.0984)


PR0031

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

8. CHECK SPIDER BEARING

(a) Check that the spider bearing moves smoothly.

(b) Check the spider bearing axial play.

Bearing axial play: Maximum 0.05 mm (0.0020 in.)

HINT:

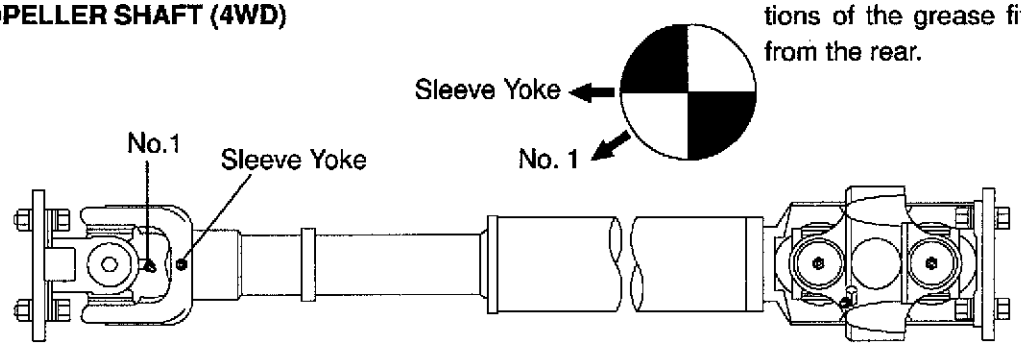
- Install a new spider bearing on the shaft side in the described procedure.

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

SPIDER GREASE FITTING ASSEMBLY DIRECTION

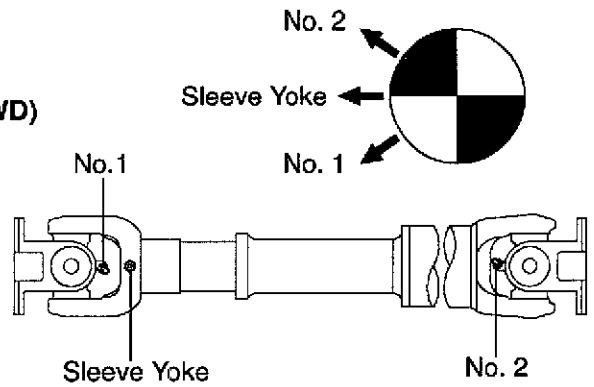
FRONT PROPELLER SHAFT (4WD)

The figure are left shows the locations of the grease fitting as seen from the rear.



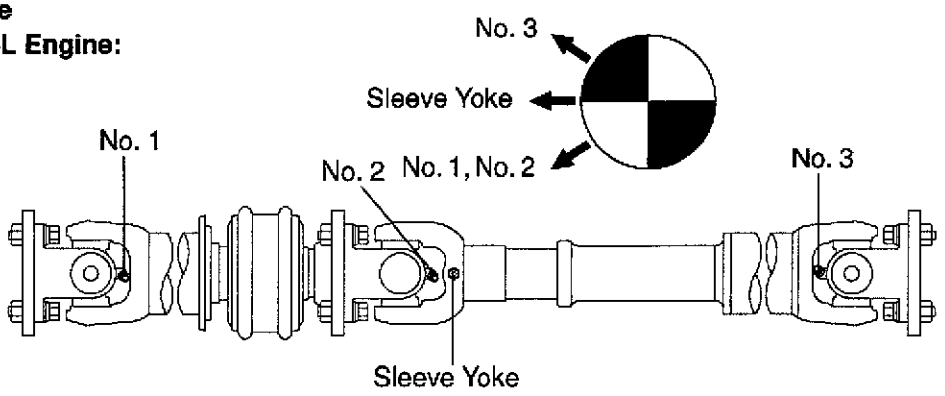
REAR PROPELLER SHAFT (4WD)

2–Joint Type



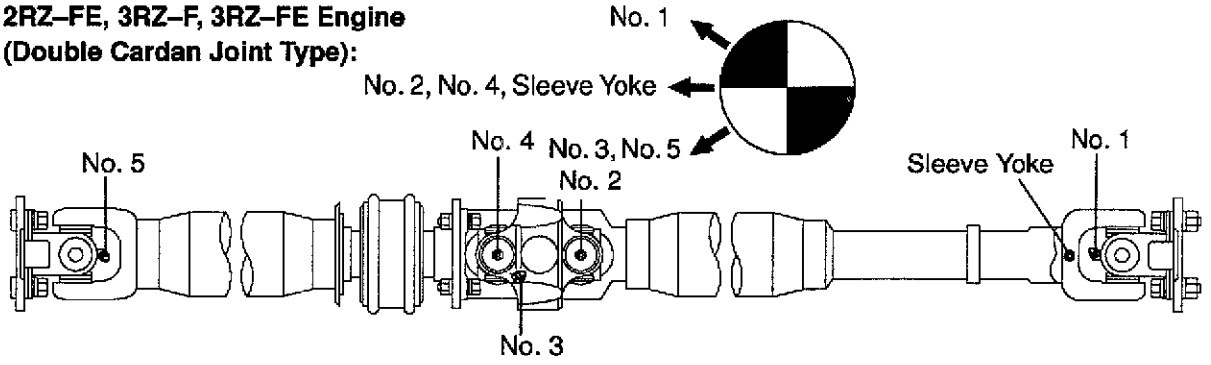
3–Joint Type

2L–T, 3L, 5L Engine:



2RZ–FE, 3RZ–F, 3RZ–FE Engine

(Double Cardan Joint Type):



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— MEMO —