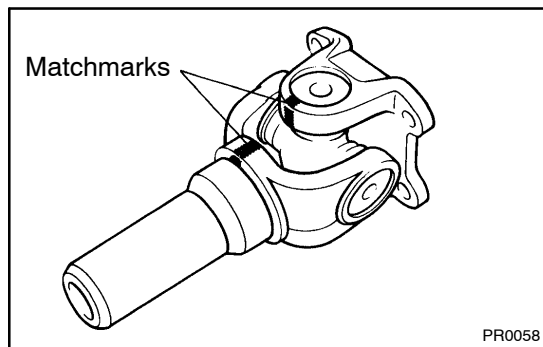




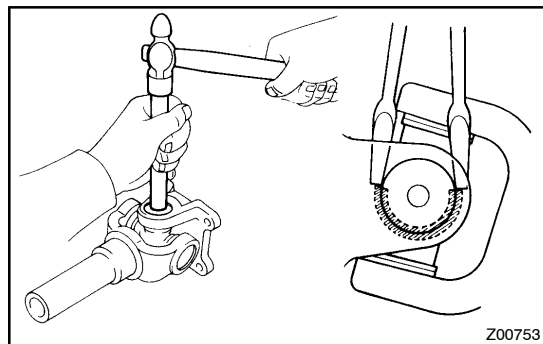
SPIDER BEARING REPLACEMENT

PR06S-03

NOTICE:

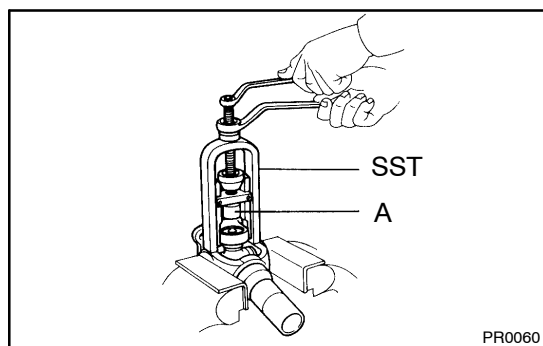
Be careful not to grip the propeller shaft tube too tightly in the vise as this will cause deformation.

1. REMOVE PROPELLER SHAFT (See page [PR-3](#))
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.

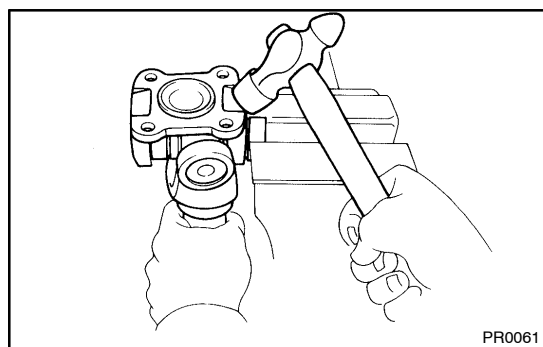


4. REMOVE SPIDER BEARINGS

- (a) Using SST, push out the bearing from the flange.
SST 09332-25010

HINT:

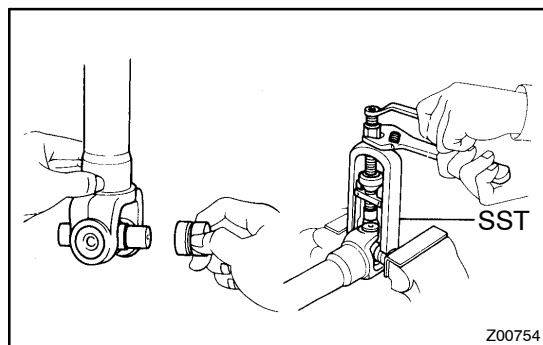
Sufficiently raise the part indicated by A so that it does not come into contact with the bearing.



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

HINT:

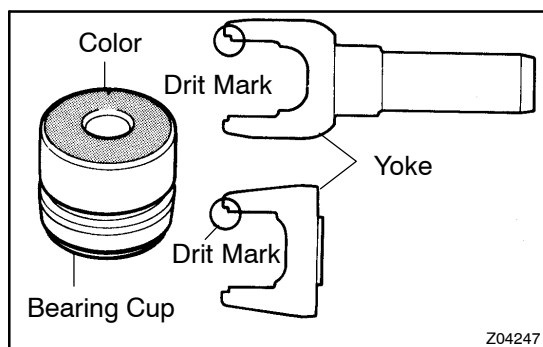
Remove the bearing on the opposite side by the same procedure.



- (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:

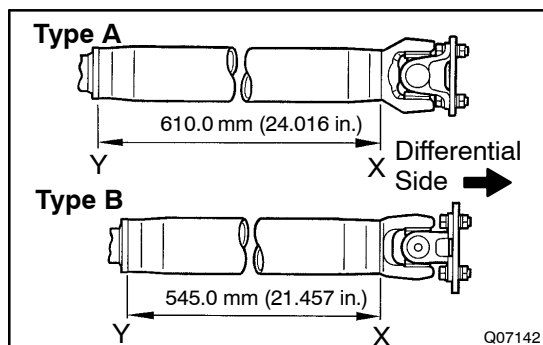
Remove the bearing on the opposite side in the same procedure.



5. SELECT SPIDER BEARING

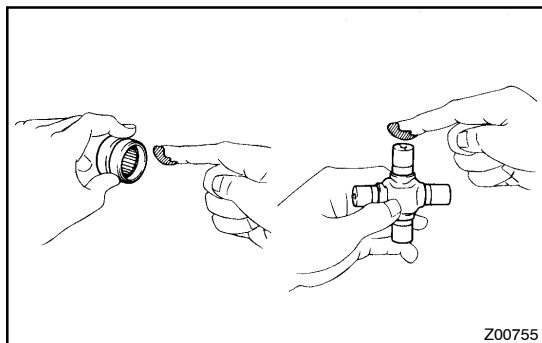
Select the bearing according to whether or not there is a drill mark on the yoke section.

Yoke	Bearing (Type A)	Bearing (Type B)
w/ drill mark	w/ color mark (White)	w/ color mark (Red)
No drill mark	No color mark	No color mark



HINT:

At time of the reassemble, there are 2 types of rear propeller shafts, type A and type B. Referring to the illustration, measure the distance between the welding points X and Y to identify which of the 2 types is used for the vehicle.



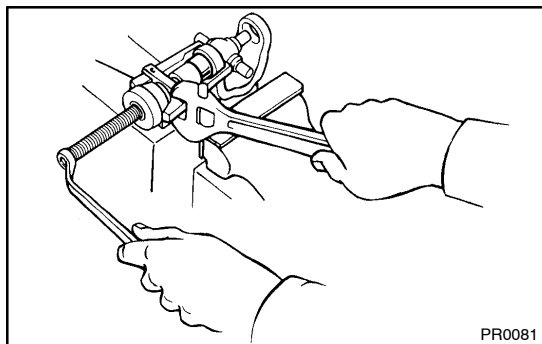
6. INSTALL SPIDER BEARING

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

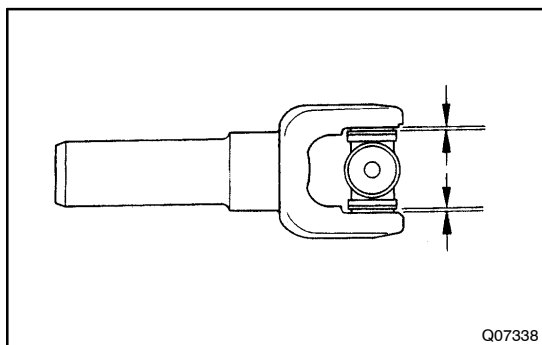
NOTICE:

Be careful not to apply too much grease.

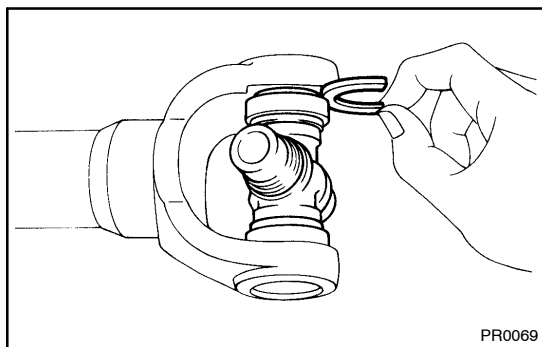
- (b) Align the matchmarks on the yoke and flange.



- (c) Fit the spider into the yoke.
 (d) Using SST, install the bearings on the spider.
 SST 09332-25010



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



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.

Thickness of snap ring:

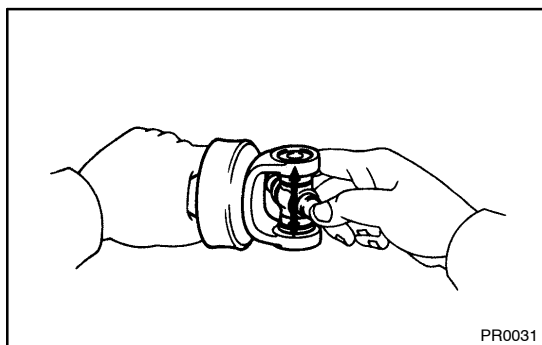
Front Propeller Shaft and Rear Propeller Shaft (Type B)

Color	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)

Rear Propeller Shaft (Type A)

Color	Thickness mm (in.)
–	2.00 (0.0787)
Brown	2.03 (0.0799)
Blue	2.06 (0.0811)
–	2.09 (0.0823)

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



8. CHECK SPIDER BEARING (See page [PR-4](#))

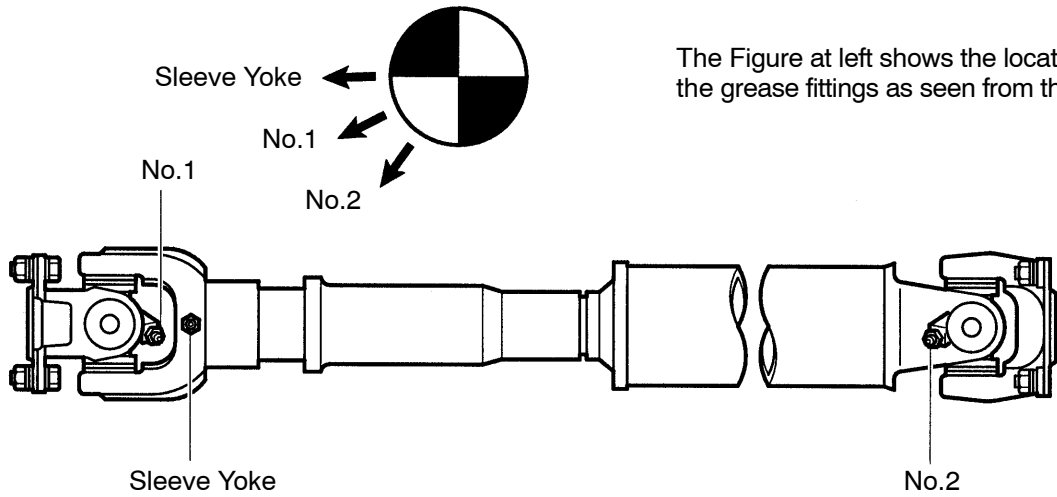
- Check that the spider bearing moves smoothly.
- Check the spider bearing axial play.

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

HINT:

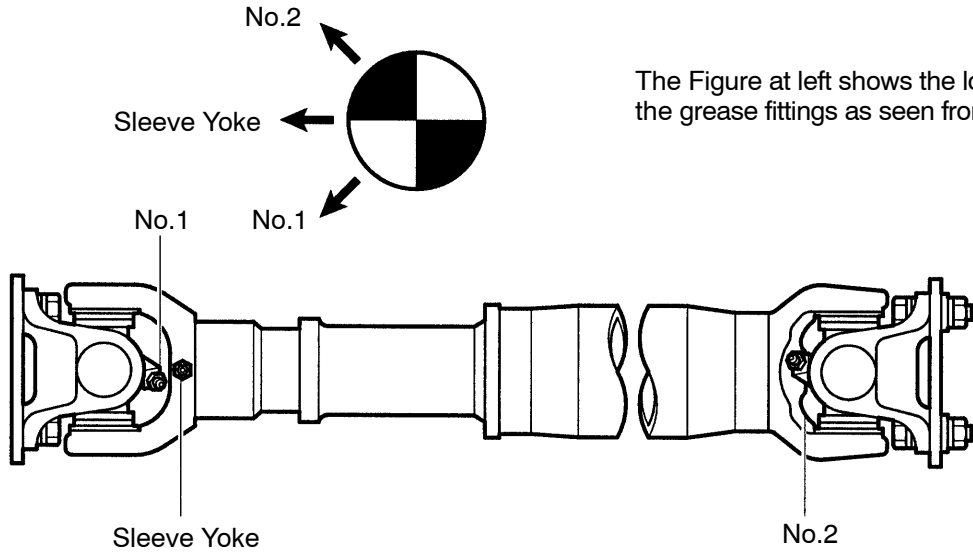
- Install a new spider bearing on the flange side in the procedure described above.
- When replacing the spider bearing, be sure that the grease fitting assembly hole is facing in the direction shown in the illustration.

SPIDER GREASE FITTING ASSEMBLY DIRECTION
Front Propeller Shaft



The Figure at left shows the locations of the grease fittings as seen from the rear.

SPIDER GREASE FITTING ASSEMBLY DIRECTION
Rear Propeller Shaft



The Figure at left shows the locations of the grease fittings as seen from the rear.

Q09100