

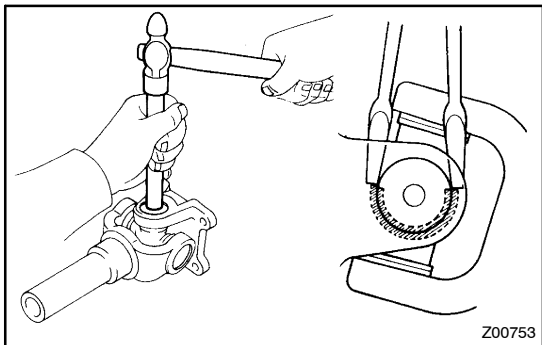
SPIDER BEARING REPLACEMENT

PR046-01

NOTICE:

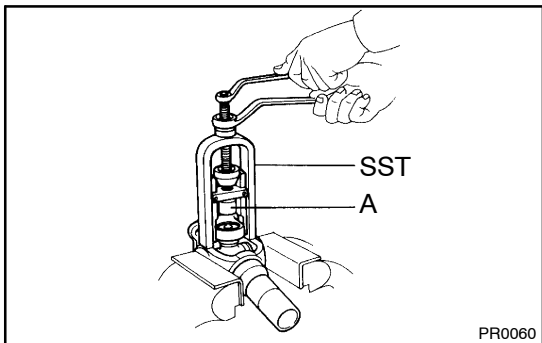
Be careful not to grip the propeller shaft tube too tightly in a vise as this will cause deformation.

1. REMOVE PROPELLER SHAFT
(See page PR-4)
2. PLACE MATCHMARKS ON SHAFT AND FLANGE
YOKE OR FLANGE YOKE AND SLEEVE YOKE
3. REMOVE SLEEVE YOKE FROM PROPELLER SHAFT



4. 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.

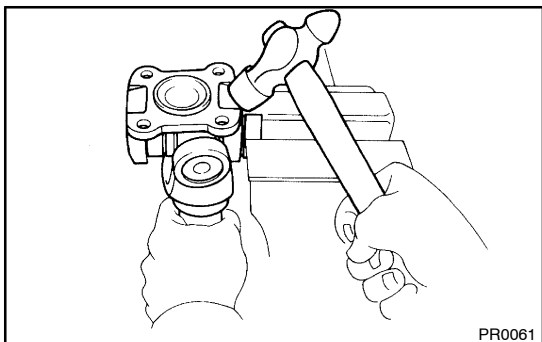


5. REMOVE SPIDER BEARINGS

- (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.

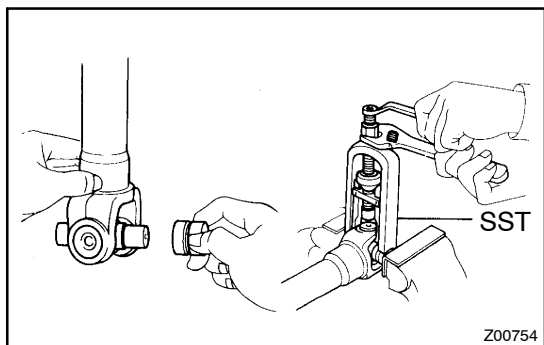


- (b) Clamp the bearing outer race in a vise and tap off the flange with a hammer.

HINT:

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

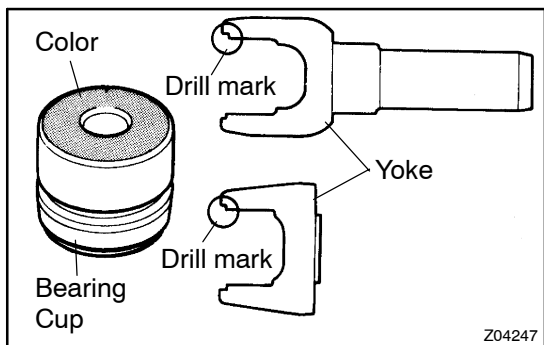
- (c) Remove the flange yoke from the sleeve yoke (or propeller shaft).



- (d) Install the 2 removed bearing outer races to the spider.
- (e) Using SST, push out the bearing from the yoke.
SST 09332 -25010
- (f) Clamp the outer bearing race in a vise and tap off the yoke with a hammer.

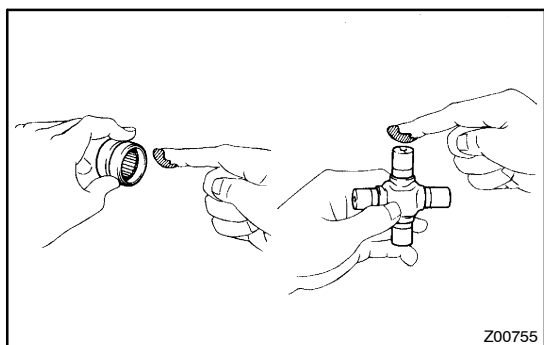
HINT:

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

**6. SELECT SPIDER BEARING**

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

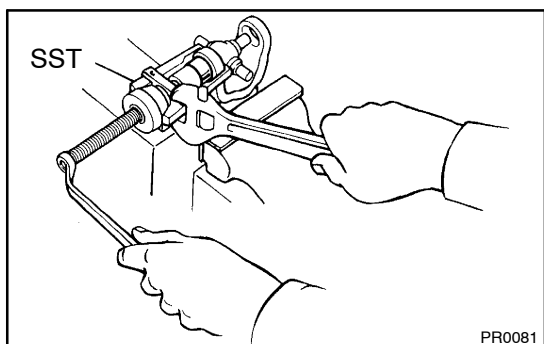
Yoke	Bearing
w/ drill mark	w/ color mark (Red)
No drill mark	No color mark

**7. INSTALL SPIDER BEARING**

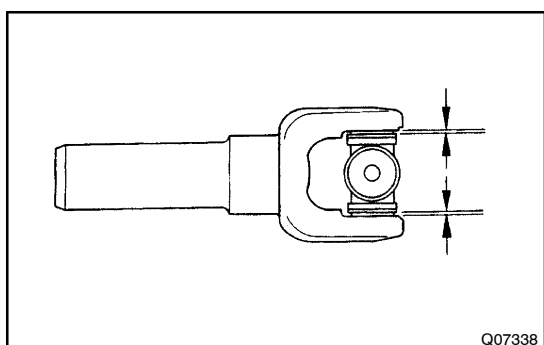
- (a) Apply MP grease to a new spider and bearings.

NOTICE:

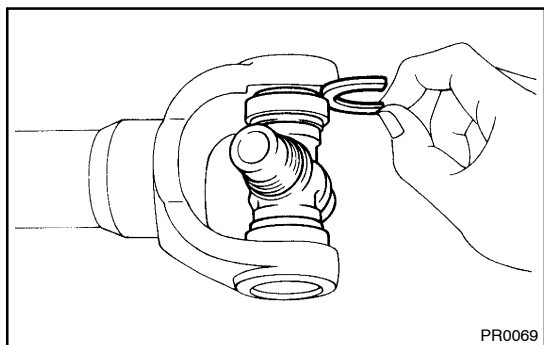
Be careful not to apply too much grease.



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



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



8. INSTALL SNAP RING

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

HINT:

Do not reuse the snap rings.

Thickness of snap ring: Rear Propeller Shaft (Part –time 4WD)

Color	Mark	Thickness mm (in.)
–	1	1.99 (0.0783)
–	2	2.01 (0.0791)
–	3	2.03 (0.0799)
–	4	2.05 (0.0807)
–	5	2.07 (0.0815)
–	6	2.09 (0.0823)
–	7	2.11 (0.0831)
–	8	2.13 (0.0839)
–	九	2.15 (0.0846)
–	10	2.17 (0.0854)

Thickness of snap ring: Others

Color	Mark	Thickness mm (in.)
–	1	2.29 (0.0902)
–	2	2.31 (0.0909)
–	–	2.33 (0.0917)
Brown	–	2.35 (0.0925)
Blue	–	2.37 (0.0933)
–	6	2.39 (0.0940)
–	7	2.41 (0.0948)
–	8	2.43 (0.0956)
–	九	2.45 (0.0965)
–	10	2.47 (0.0972)

M00057

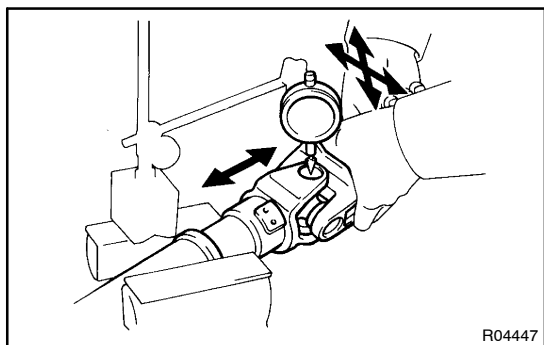
- (b) Using a hammer, tap the yoke until there is no clearance between the bearing outer race and snap ring.

9. INSTALL FLANGE YOKE TO SLEEVE YOKE (OR PROPELLER SHAFT)

- (a) Align the matchmarks on the propeller shaft and flange yoke or flange yoke and sleeve yoke.
- (b) Install the flange yoke to the sleeve yoke (or propeller shaft).

HINT:

Install 2 new spider bearings and snap ring on the flange yoke side in the procedure described above.

**10. CHECK SPIDER BEARING****(See page PR-5)**

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

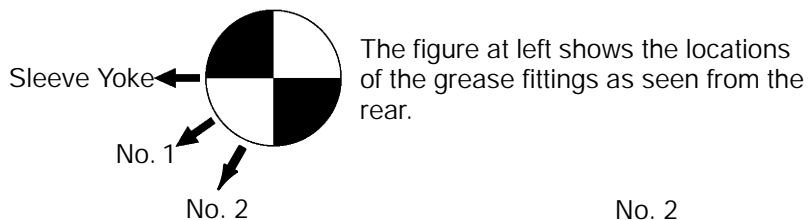
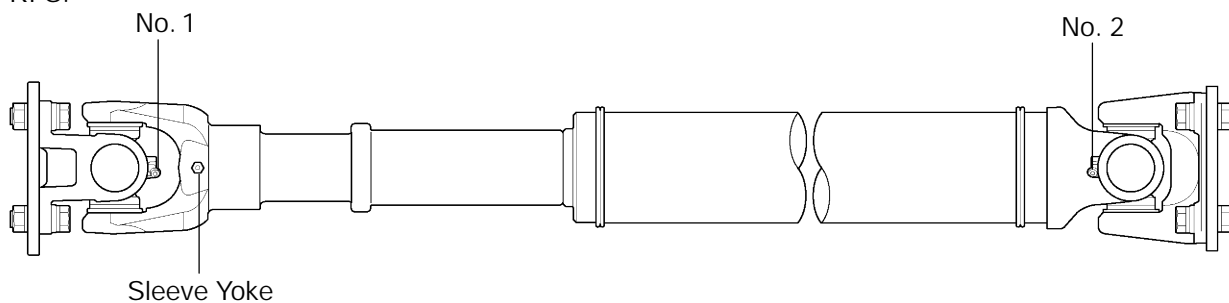
Maximum bearing axial play: 0 mm (0 in.)

HINT:

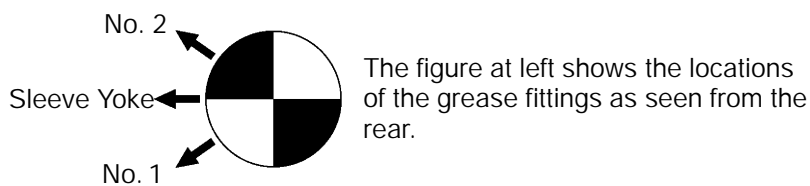
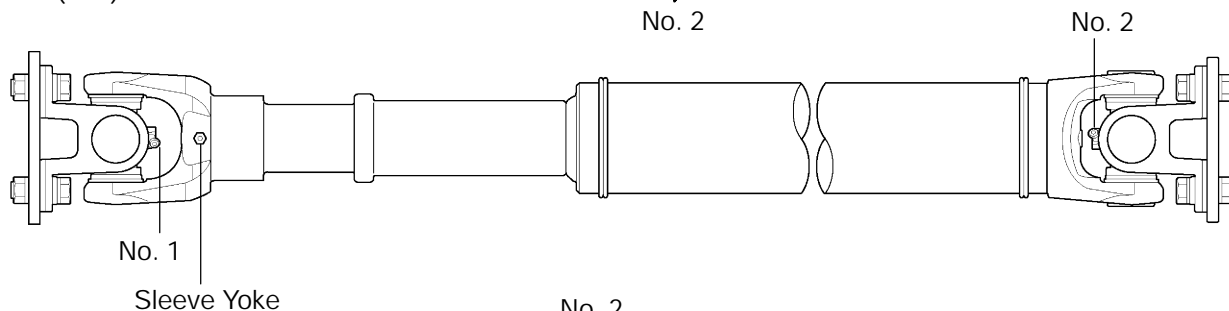
When replacing the spider bearing, be sure that the grease fitting assembly hole is facing to the direction shown in the illustration.

SPIDER GREASE FITTING ASSEMBLY DIRECTION**Front Propeller Shaft**

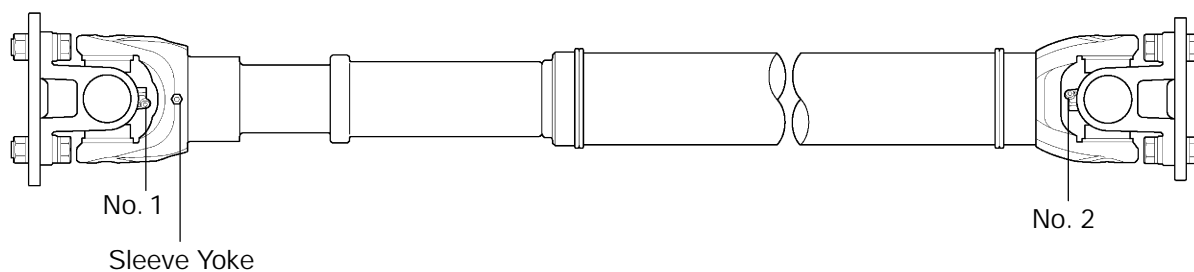
For RFS:



For IFS (M/T):



For IFS (A/T):



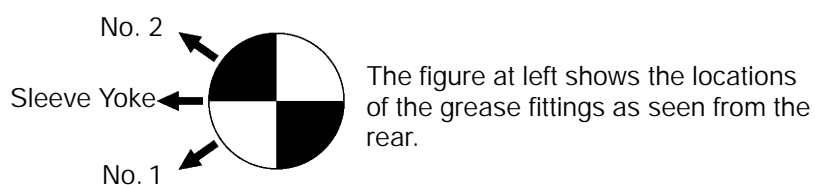
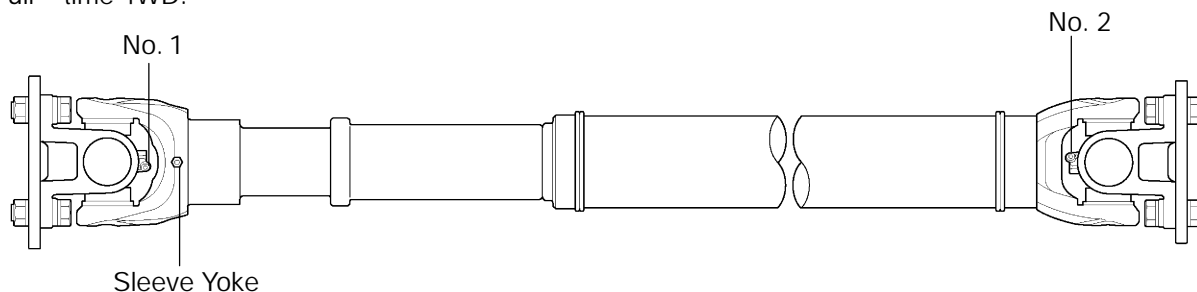
D03361
D01633
D03359
D01633
D03360

D03375

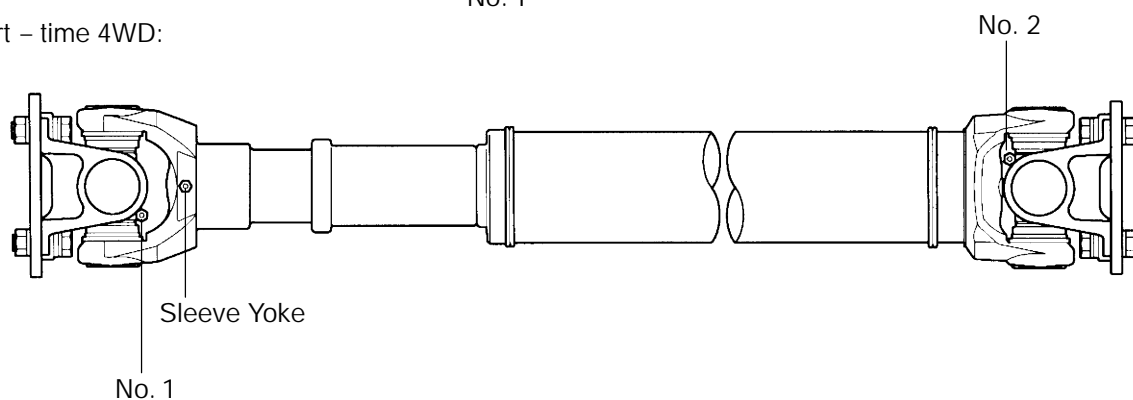
SPIDER GREASE FITTING ASSEMBLY DIRECTION

Rear Propeller Shaft

For Full – time 4WD:



For Part – time 4WD:



D03360
D01633
D03363

D03374