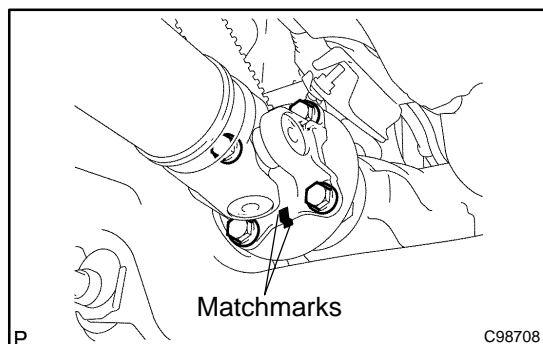
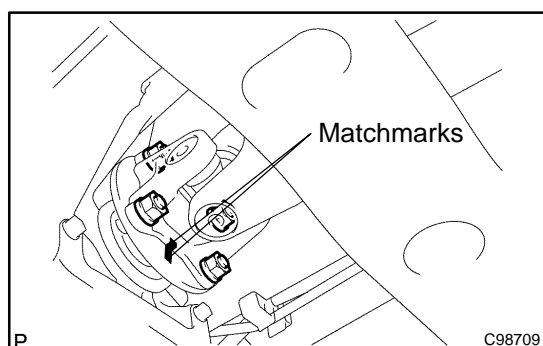


## OVERHAUL

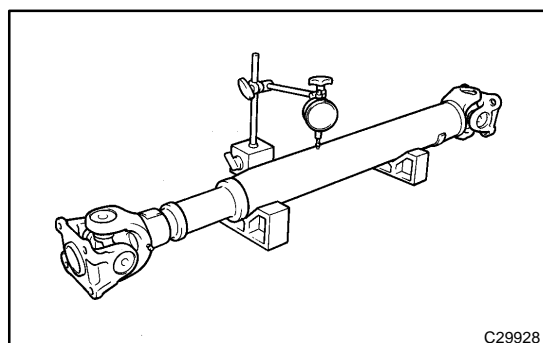


### 1. REMOVE PROPELLER SHAFT ASSY FRONT

- Place matchmarks on the propeller shaft flange and differential.
- Remove the 4 nuts, 4 bolts, 4 washers and front propeller shaft assy.



- Place matchmarks on the propeller shaft flange and transfer flange.
- Remove the 4 nuts, 4 washers and front propeller shaft assy.



### 2. INSPECT PROPELLER SHAFT ASSY FRONT

- Using a dial indicator, check the propeller shaft runout.

**Maximum runout: 0.3 mm (0.012 in.)**

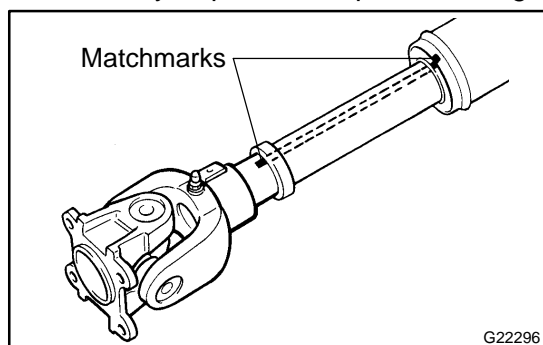
If the shaft runout is greater than maximum, replace the propeller shaft.

### 3. INSPECT FRONT PROPELLER SHAFT UNIVERSAL JOINT SPIDER BEARING

- Check the spider bearings for wear or damage.
- Check the spider bearing axial play by turning the yoke with holding the shaft tightly.

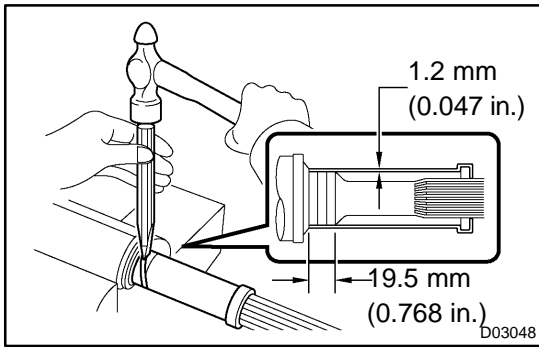
**Maximum bearing axial play: 0 mm (0 in.)**

If necessary, replace the spider bearing.



### 4. REMOVE FR PROPELLER SHAFT UNIVERSAL JOINT SLEEVE YOKE SUB-ASSY

- Place matchmarks on the propeller shaft and sleeve yoke.
- Remove the sleeve yoke from the propeller shaft.
- Remove the grease fitting from the universal joint sleeve yoke.

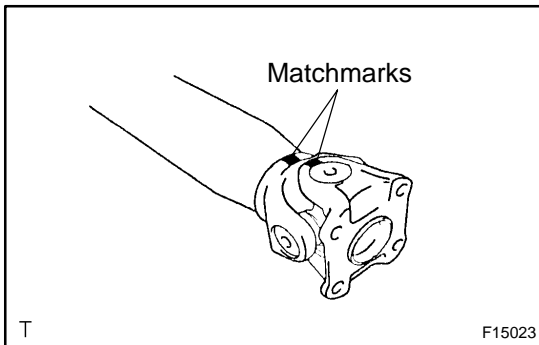


### 5. REMOVE REAR PROPELLER SHAFT SLIDING SHAFT DUST COVER SUB-ASSY

- (a) Cut the dust cover spirally at the pressing-in part with a saw and pry it off with a chisel and a hammer.

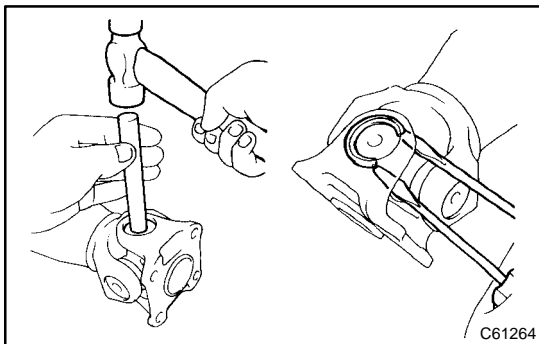
#### NOTICE:

**Do not damage the propeller shaft. If damage, replace the shaft with a new one.**

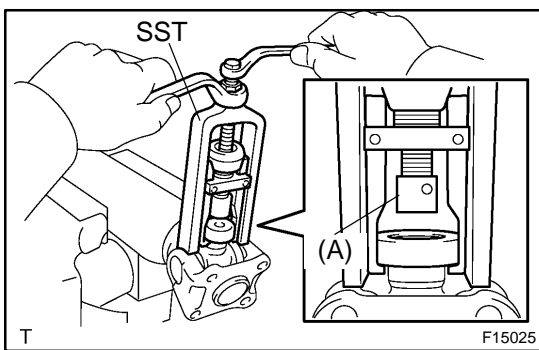


### 6. REMOVE FRONT PROPELLER SHAFT UNIVERSAL JOINT SPIDER BEARING

- (a) Place matchmarks on the flange yoke and sleeve yoke.



- (b) Using a brass bar and a hammer, slightly tap in the spider bearing outer races.
- (c) Using 2 screwdrivers, remove the 4 snap rings from the grooves.

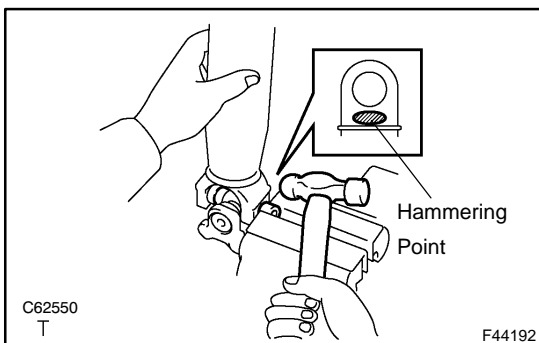


- (d) Using SST, push out the spider bearing from the propeller shaft.

SST 09332-25010

#### HINT:

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



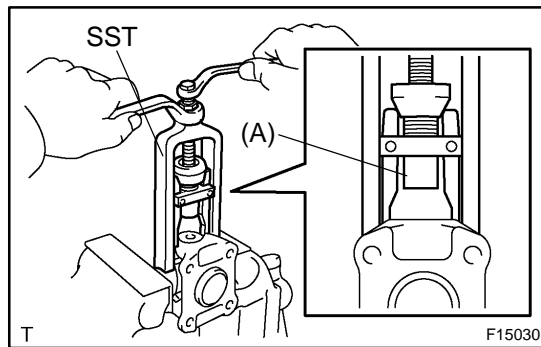
- (e) Clamp the spider bearing outer race in a vise and tap off the propeller shaft with a hammer.

#### HINT:

Remove the bearing on opposite side in the same procedure.

#### NOTICE:

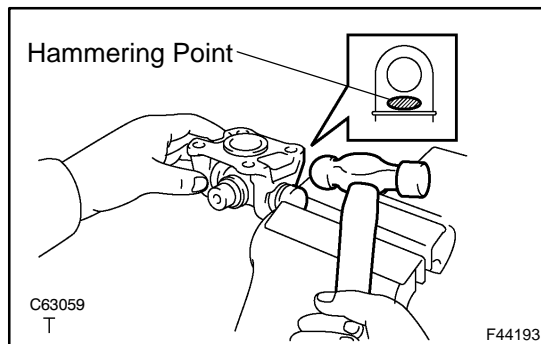
**Do not tap the shaft.**



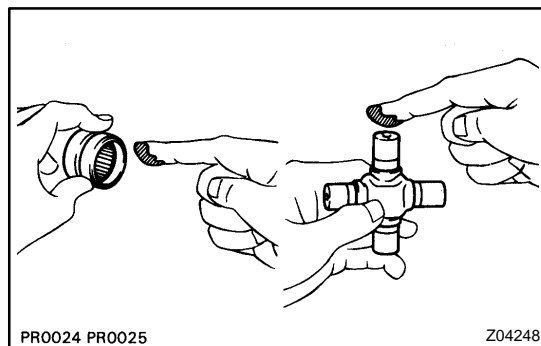
- (f) Install the 2 removed spider bearing outer race to the spider.
- (g) Using SST, push out the bearing from the yoke.  
SST 09332-25010

**HINT:**

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

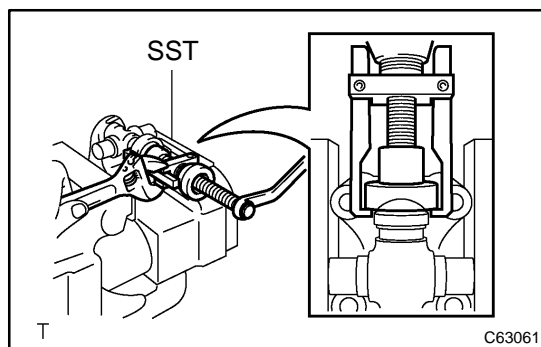


- (h) Clamp the outer bearing race in a vise and tap off the flange yoke with a hammer.
- (i) Remove the spider.

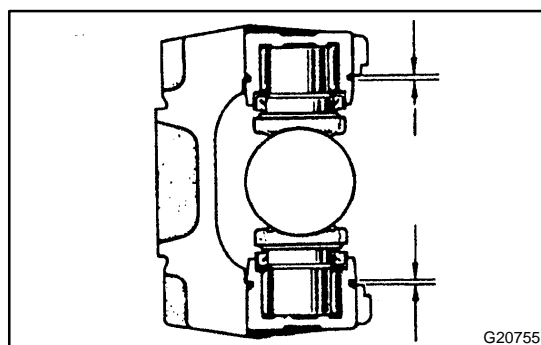


## 7. INSTALL FRONT PROPELLER SHAFT UNIVERSAL JOINT SPIDER BEARING

- (a) Apply MP grease No.2 to a new spider and spider bearing.
- (b) Fit the spider into the flange yoke.



- (c) Using SST, install the spider 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.  
SST 09332-25010



- (e) Install the 4 new snap rings of equal thickness which will allow no axial play.

**HINT:**

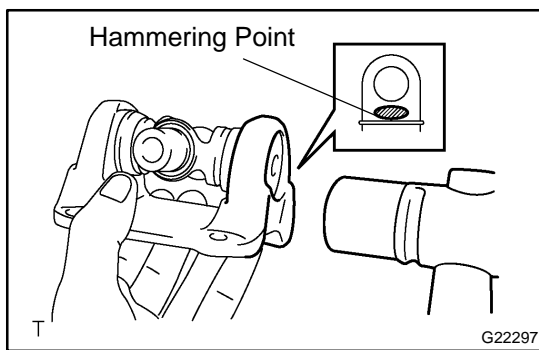
Do not reuse the snap rings.

**Thickness of snap ring**

Parts No.	Thickness mm (in.)	Mark
90520-25039	2.28 - 2.30	1
90520-25040	2.30 - 2.32	2
90520-25041	2.32 - 2.34	-
90520-25042	2.34 - 2.36	Brown
90520-25043	2.36 - 2.38	Blue
90520-25044	2.38 - 2.40	6
90520-25045	2.40 - 2.42	7
90520-25046	2.42 - 2.44	8
90520-25047	2.44 - 2.46	9
90520-25048	2.46 - 2.48	10
90520-25049	2.48 - 2.50	A
90520-25050	2.50 - 2.52	B
90520-25051	2.52 - 2.54	C
90520-25052	2.54 - 2.56	D
90520-25053	2.56 - 2.58	E
90520-25054	2.18 - 2.20	J
90520-25055	2.20 - 2.22	K
90520-25056	2.22 - 2.24	F
90520-25057	2.24 - 2.26	G
90520-25058	2.26 - 2.28	H

**NOTICE:**

- **Must use a new retainer ring.**
- **Must use retainer rings of the same thickness as possible on both ends.**

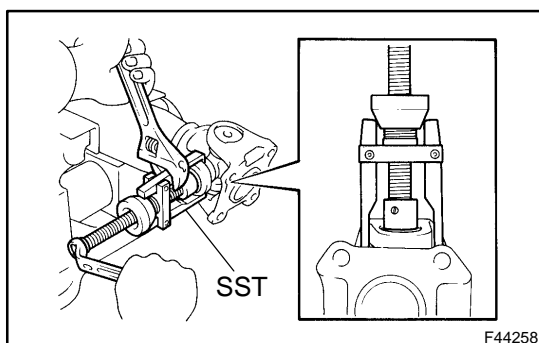


- (f) Using a hammer, tap the yoke until there is no clearance between the spider bearing outer race and snap ring.

**HINT:**

Install a new spider bearing on the sleeve side in the procedure described above.

- (g) Align the matchmarks on the flange yoke with the one the sleeve yoke.



- (h) Using SST, install the spider bearings on the spider.  
SST 09332-25010
- (i) Using SST, adjust both bearings so that the snap ring grooves are at maximum and equal in width.  
SST 09332-25010

- (j) Install the new 4 snap rings of equal thickness which will allow no axial play.

HINT:

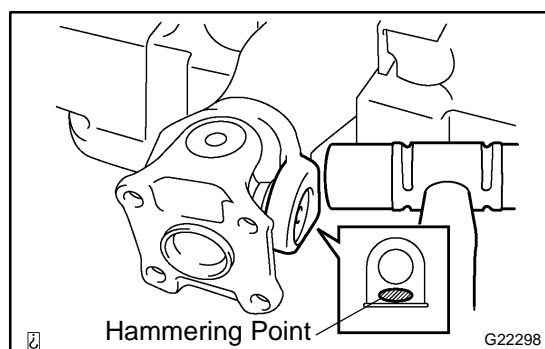
Do not reuse the snap rings.

#### Thickness of snap ring

Parts No.	Thickness mm (in.)	Mark
90520-25039	2.28 - 2.30	1
90520-25040	2.30 - 2.32	2
90520-25041	2.32 - 2.34	-
90520-25042	2.34 - 2.36	Brown
90520-25043	2.36 - 2.38	Blue
90520-25044	2.38 - 2.40	6
90520-25045	2.40 - 2.42	7
90520-25046	2.42 - 2.44	8
90520-25047	2.44 - 2.46	9
90520-25048	2.46 - 2.48	10
90520-25049	2.48 - 2.50	A
90520-25050	2.50 - 2.52	B
90520-25051	2.52 - 2.54	C
90520-25052	2.54 - 2.56	D
90520-25053	2.56 - 2.58	E
90520-25054	2.18 - 2.20	J
90520-25055	2.20 - 2.22	K
90520-25056	2.22 - 2.24	F
90520-25057	2.24 - 2.26	G
90520-25058	2.26 - 2.28	H

#### NOTICE:

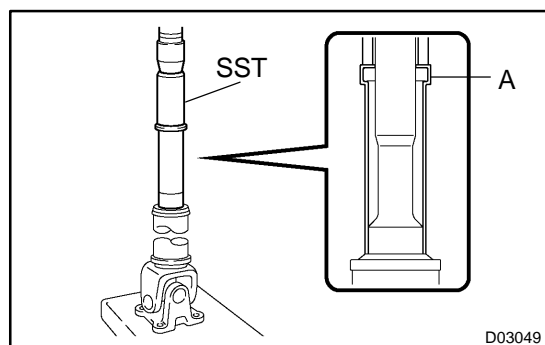
- **Must use a new retainer ring.**
- **Must use retainer rings of the same thickness as possible on both ends.**



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

HINT:

Install a new spider bearing on the sleeve side in the procedure described above.

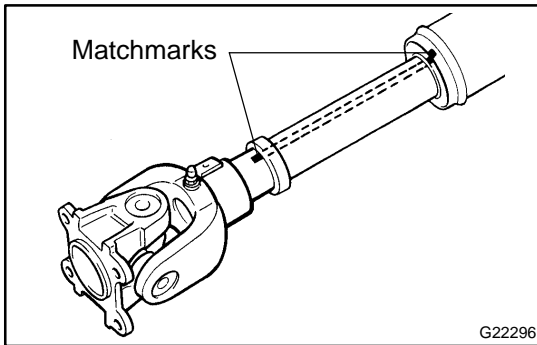


#### 8. INSTALL REAR PROPELLER SHAFT SLIDING SHAFT DUST COVER SUB-ASSY

- (a) Using SST and press, press in a new dust cover.  
SST 09636-20010

#### NOTICE:

Place the universal joint straight when pressing in the dust cover. Apply MP grease to the "A" part.



### 9. INSTALL FR PROPELLER SHAFT UNIVERSAL JOINT SLEEVE YOKE SUB-ASSY

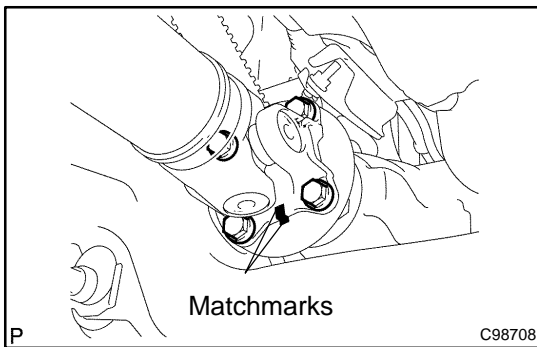
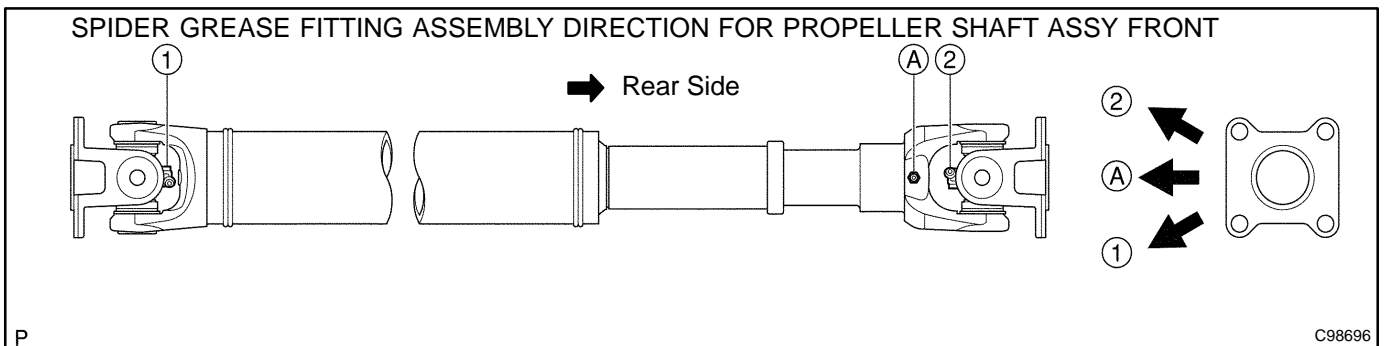
- Install the grease fitting to the universal joint sleeve yoke.
- Apply MP grease to the propeller shaft spline and sleeve yoke sliding surface.
- Align the matchmarks on the sleeve yoke propeller shaft.
- Install the propeller shaft into the sleeve yoke.

### 10. INSPECT FRONT PROPELLER SHAFT UNIVERSAL JOINT SPIDER BEARING

### 11. INSPECT PROPELLER SHAFT ASSY FRONT

#### HINT:

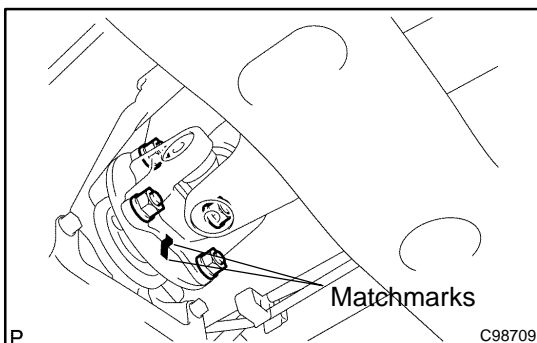
When replacing the spider bearing, be sure that the grease fitting assembly hole is facing the direction shown in the illustration.



### 12. INSTALL PROPELLER SHAFT ASSY FRONT

- Align the matchmarks on the yoke and differential flange.
- Install the propeller shaft assy with the 4 bolts, 4 nuts and 4 washers.

**Torque: 88 N·m (897 kgf·cm, 65 ft·lbf)**



- Align the matchmarks on the yoke and transfer flange.
- Install the propeller shaft assy with the 4 nuts and 4 washers.

**Torque: 88 N·m (897 kgf·cm, 65 ft·lbf)**