

## DISASSEMBLY

### 1. INSPECT REAR PROPELLER SHAFT ASSEMBLY

- (a) Check that the propeller shaft is not damaged or deformed.

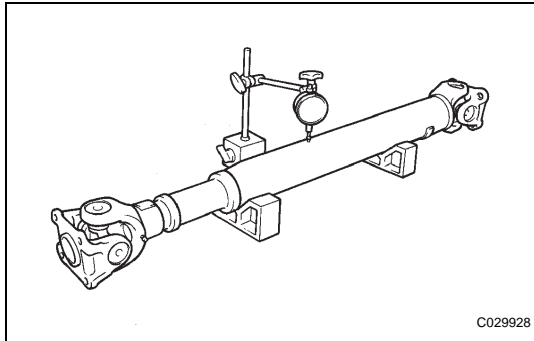
If necessary, replace the propeller shaft.

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

**Maximum runout:**

**0.3 mm (0.012 in.)**

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



### 2. INSPECT UNIVERSAL JOINT SPIDER BEARING

- (a) Check that the joints move smoothly.

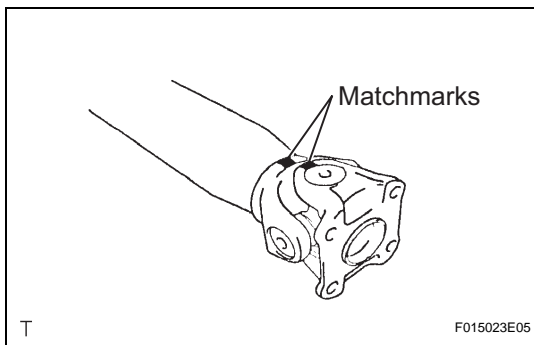
- (b) Check the spider bearings for wear and damage.

- (c) Check the spider bearing axial play by turning the yoke while holding the shaft tightly.

**Maximum bearing axial play:**

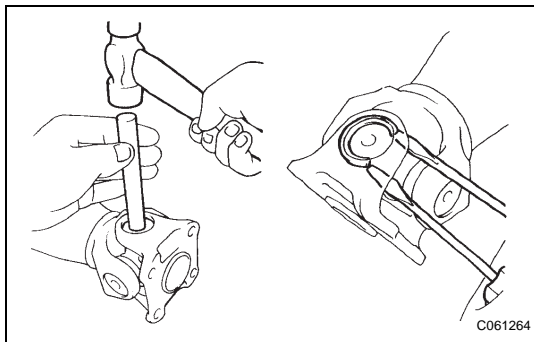
**0 mm (0 in.)**

If necessary, replace the spider bearing.



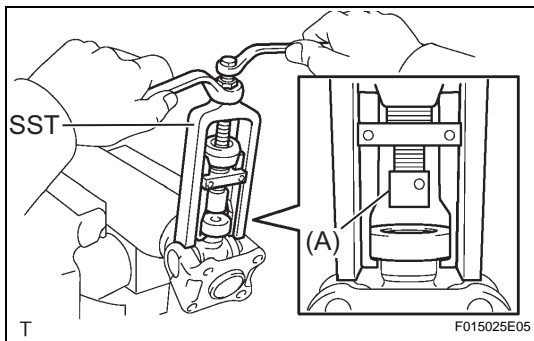
### 3. REMOVE REAR PROPELLER SHAFT UNIVERSAL JOINT SPIDER KIT

- (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.

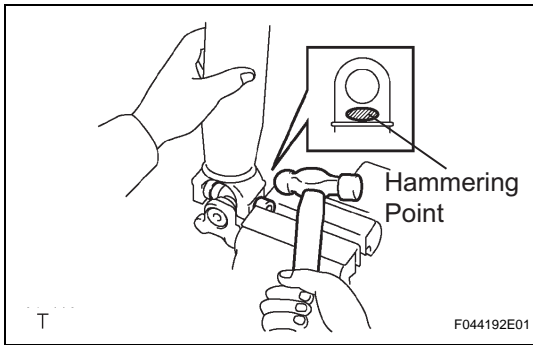


- (d) Using SST, push out the spider bearing from the propeller shaft.

**SST 09332-25010**

**HINT:**

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



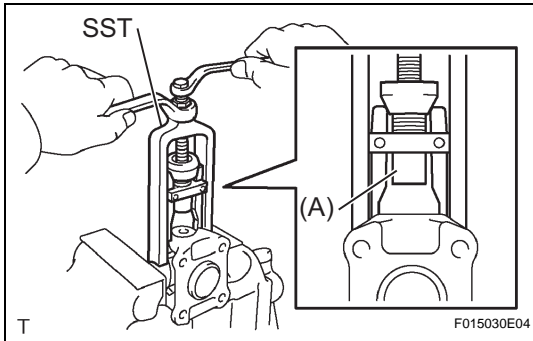
- (e) Clamp the spider bearing outer race in a vise and tap off the propeller shaft with a hammer.

**NOTICE:**

**Do not tap the shaft.**

**HINT:**

Remove the spider bearings on the opposite side in the same procedure.



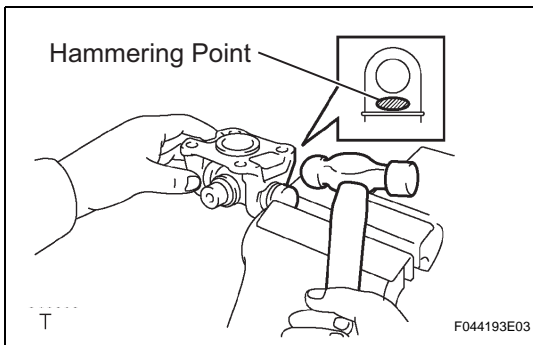
- (f) Install the 2 removed spider bearing outer races onto the spider.

- (g) Using SST, push out the bearing from the yoke.

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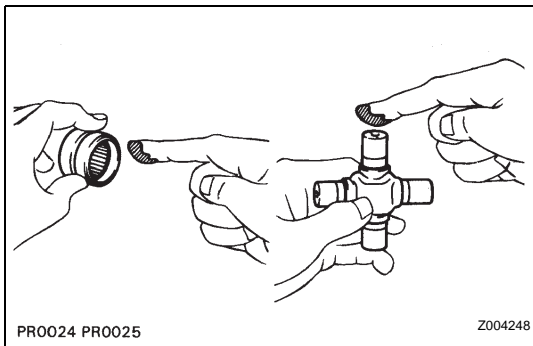
**HINT:**

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.

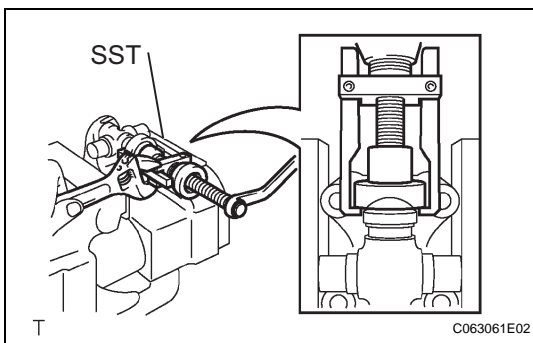


**REASSEMBLY**

**1. INSTALL REAR PROPELLER SHAFT UNIVERSAL JOINT SPIDER KIT**

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

- (b) Fit the spider into the flange yoke.

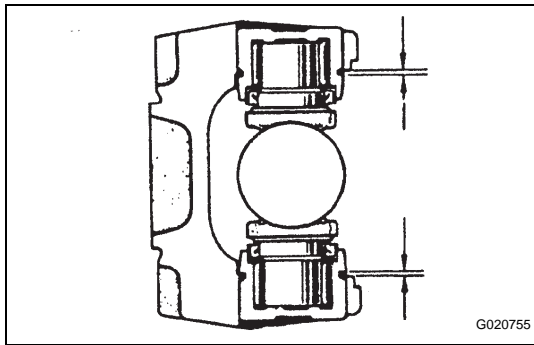


- (c) Using SST, install the spider bearings onto the spider.

**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 4 new snap rings of equal thickness which will allow no axial play.

HINT:

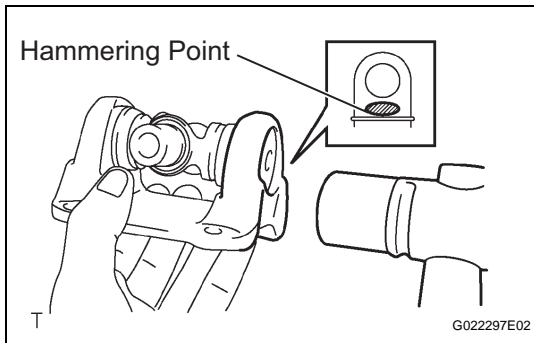
Do not reuse the snap rings.

**Thickness of snap ring**

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

**NOTICE:**

- Use a new snap ring.
- Use snap rings as close as possible the same thickness on both ends.

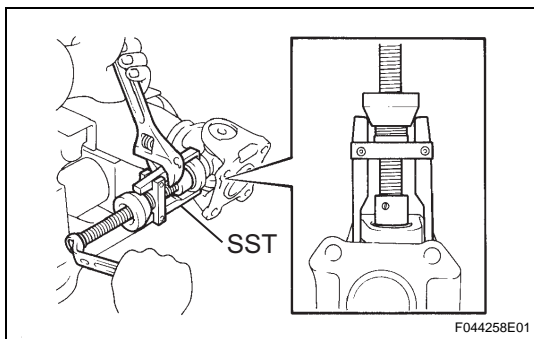


- (f) Using a hammer, tap the yoke until there is no clearance between the spider bearing outer race and snap ring.

HINT:

Install new spider bearings onto the sleeve side in the procedure described above.

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



- (h) Using SST, install the spider bearings onto 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 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 to 2.30	1
90520-25040	2.30 to 2.32	2
90520-25041	2.32 to 2.34	-
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90520-25055	2.20 to 2.22	K
90520-25056	2.22 to 2.24	F
90520-25057	2.24 to 2.26	G
90520-25058	2.26 to 2.28	H

**NOTICE:**

- Use a new snap ring.
- Use snap rings as close as possible to the same thickness 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 new spider bearings onto the sleeve side in the procedure described above.

**2. INSPECT UNIVERSAL JOINT SPIDER BEARING**

- Check that the joints move smoothly.
- Check the spider bearing axial play by turning the yoke while holding the shaft tightly.

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

**3. INSPECT REAR PROPELLER SHAFT ASSEMBLY (for 4WD)**

**HINT:**

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

