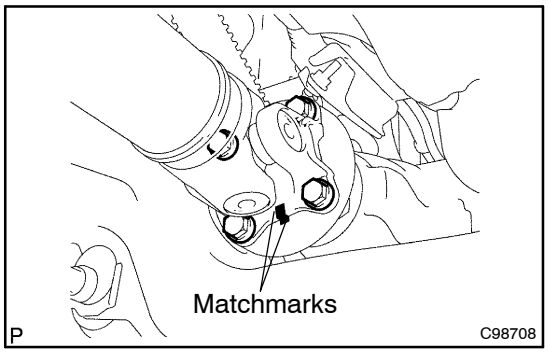
300FQ-01

OVERHAUL

1. REMOVE TRANSMISSION UNDER COVER

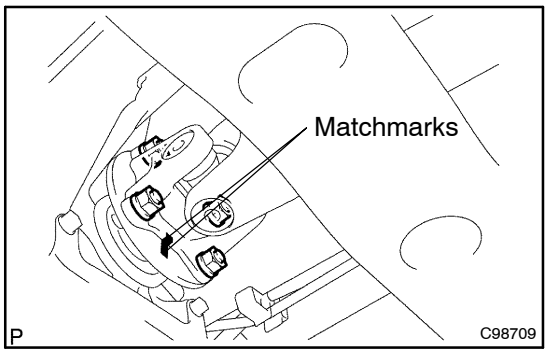
2. REMOVE ENGINE UNDER COVER ASSY REAR



3. REMOVE PROPELLER SHAFT ASSY FRONT

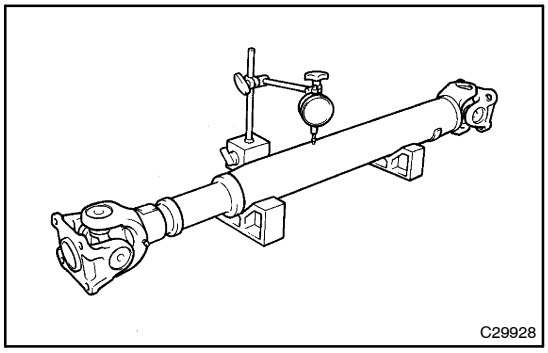
(a) Place matchmarks on the propeller shaft flange and differential flange.

(b) Remove the 4 nuts, 4 bolts, 4 washers and front propeller shaft assy.



(c) Place matchmarks on the propeller shaft flange and transfer flange.

(d) Remove the 4 nuts, 4 washers and front propeller shaft assy.



4. INSPECT PROPELLER SHAFT ASSY FRONT

(a) 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.

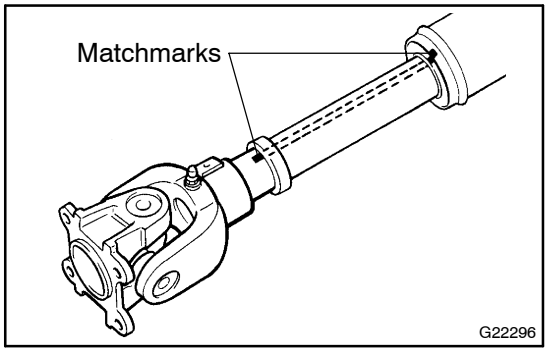
5. INSPECT FRONT PROPELLER SHAFT UNIVERSAL JOINT SPIDER BEARING

(a) Check the spider bearings for wear or damage.

(b) 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.

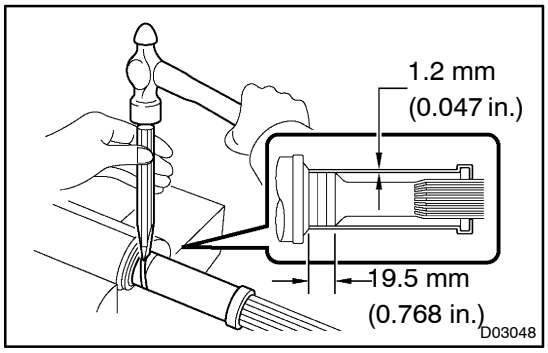


6. REMOVE FR PROPELLER SHAFT UNIVERSAL J0INT SLEEVE YOKE SUB–ASSY

(a) Place matchmarks on the propeller shaft and sleeve yoke.

(b) Remove the sleeve yoke from the propeller shaft.

(c) Remove the grease fitting from the universal joint sleeve yoke.

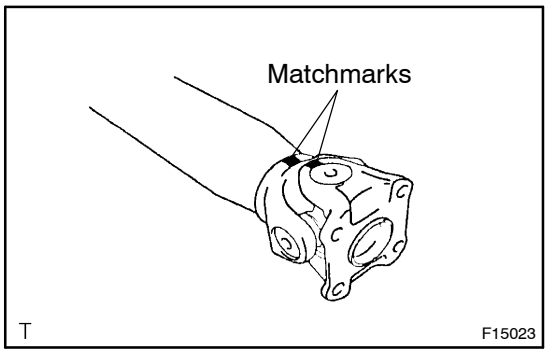


7. REMOVE REAR PROPELLER SHAFT SLIDING SHAFT DUST COVER SUB–ASSY

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

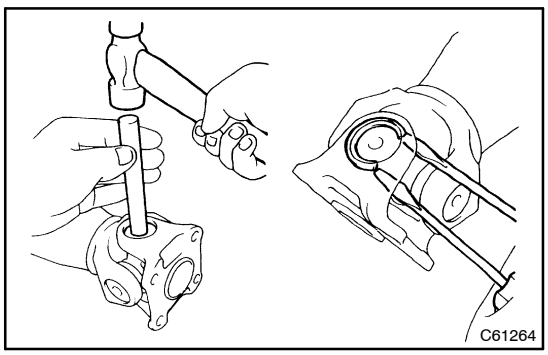
NOTICE:

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



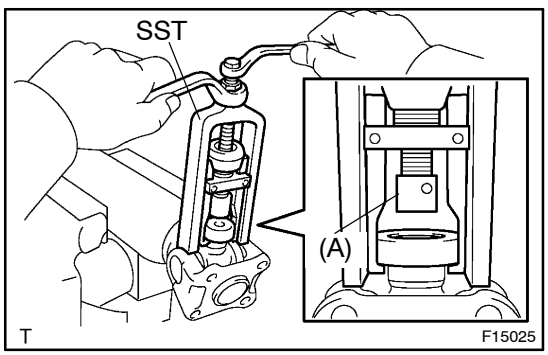
8. REMOVE FRONT PROPELLER SHAFT UNIVERSAL JOINT SPIDER BEARING

(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.

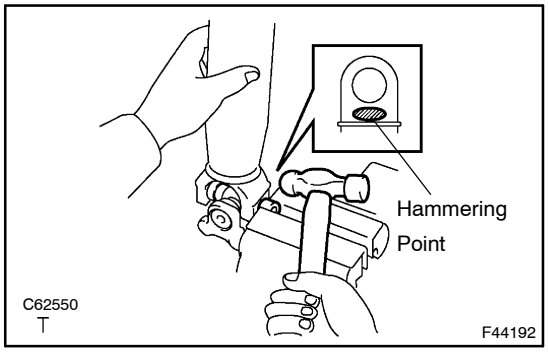


(d) Using SST, push out the spider bearing from the propeller shaft.

SST 09332–25010

HINT:

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



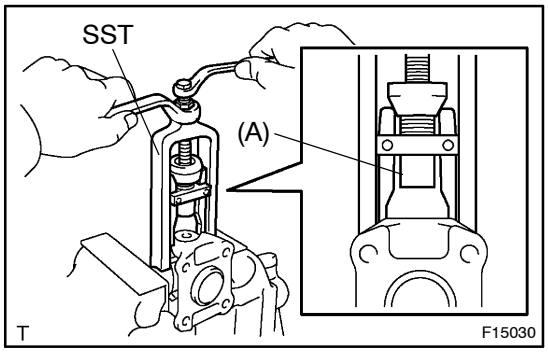
(e) Clamp the spider bearing outer race in a vise and tap off the propeller shaft with a hammer.

HINT:

Remove the bearing on opposite side in the same procedure.

NOTICE:

Do not tap the shaft.

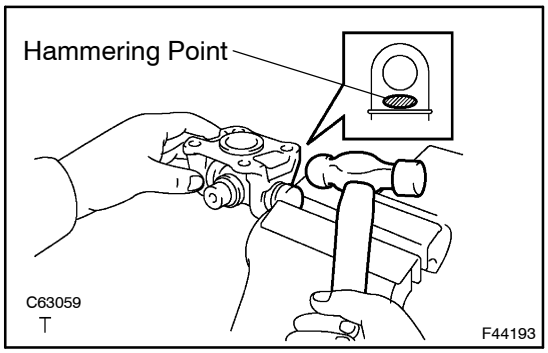


(f) Install the 2 removed spider bearing outer race to the spider.

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

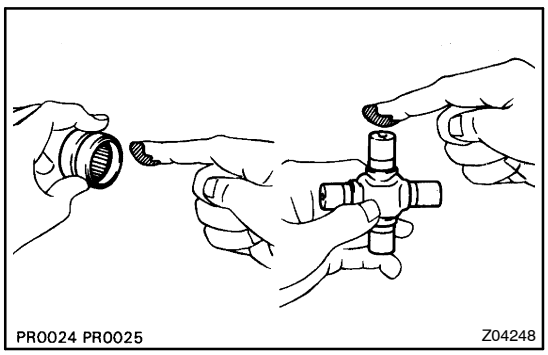
HINT:

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.

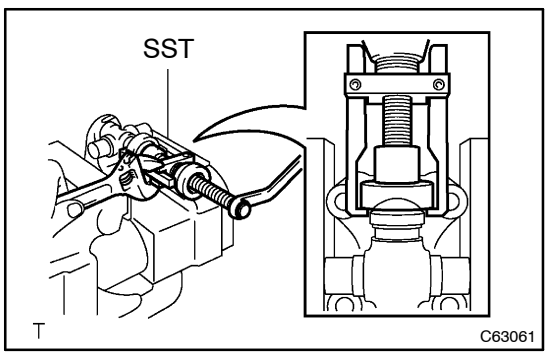
(i) Remove the spider.



9. INSTALL FRONT PROPELLER SHAFT UNIVERSAL JOINT SPIDER BEARING

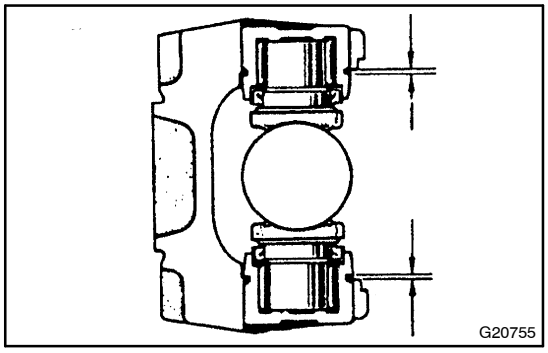
(a) Apply MP grease No.2 to a new spider and spider bearing.

(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:

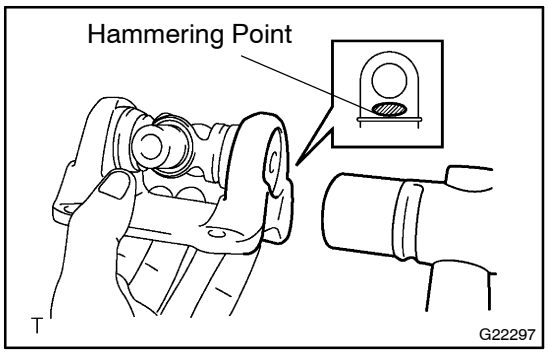
Do not reuse the snap rings.

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	九
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.**

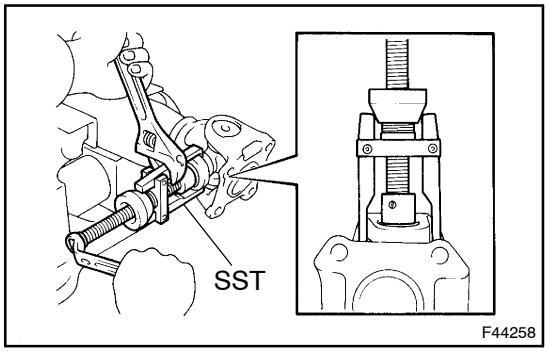


(f) Using a hammer, tap the yoke until there is no clearance between the spider bearing outer race and snap ring.

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

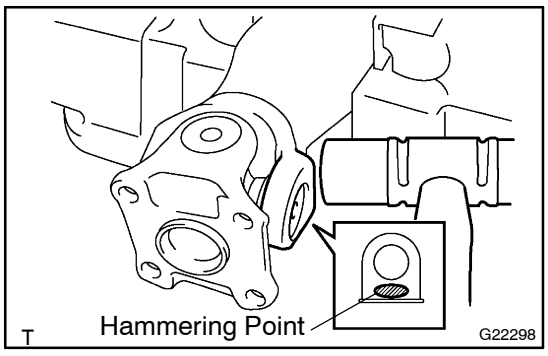
(j) Install the new 4 snap rings of equal thickness which will allow no axial play.

HINT:
Do not reuse the snap rings.

Thickness of snap ring

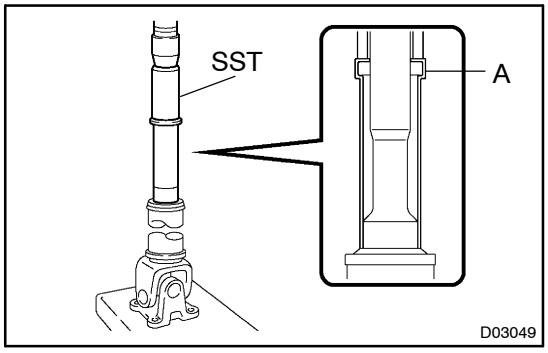
Parts No.	Thickness mm (in.)	Mark
90520–25039	2.28 – 2.30	1
90520–25040	2.30 – 2.32	2
90520–25041	2.32 – 2.34	–
90520–25042	2.34 – 2.36	Brown
90520–25043	2.36 – 2.38	Blue
90520–25044	2.38 – 2.40	6
90520–25045	2.40 – 2.42	7
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90520–25047	2.44 – 2.46	九
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.

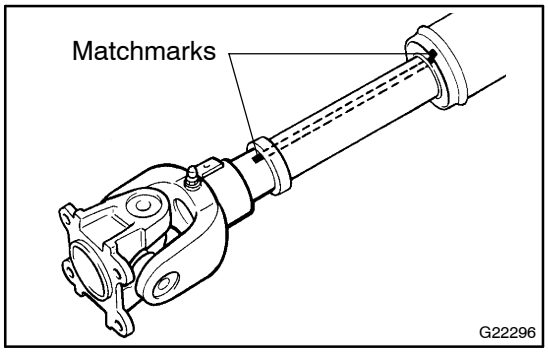
HINT:
Install a new spider bearing on the sleeve side in the procedure described above.



10. 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.



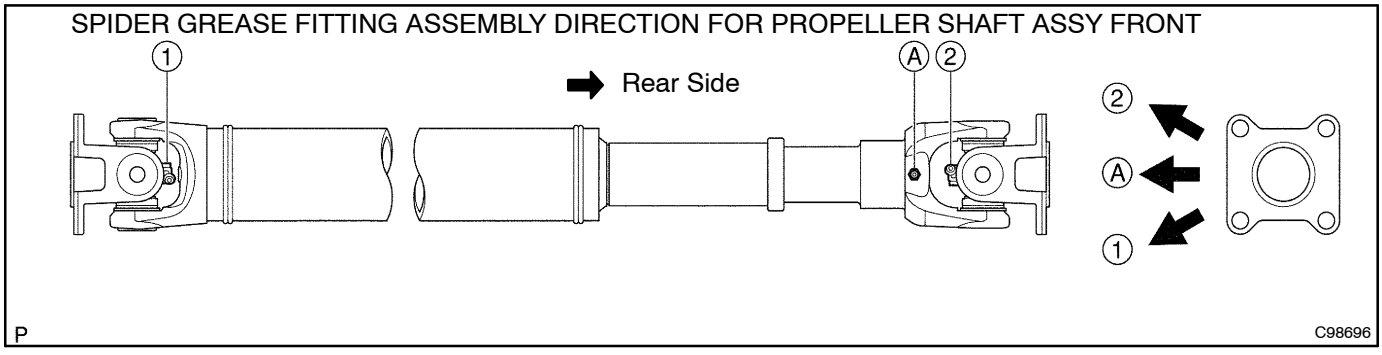
11. INSTALL FR PROPELLER SHAFT UNIVERSAL J0INT SLEEVE YOKE SUB–ASSY

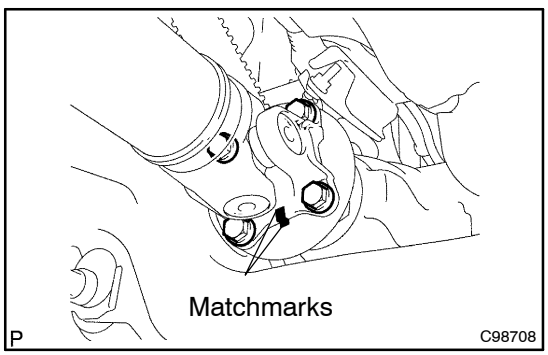
(a) Install the grease fitting to the universal joint sleeve yoke.
(b) Apply MP grease to the propeller shaft spline and sleeve yoke sliding surface.
(c) Align the matchmarks on the sleeve yoke propeller shaft.
(d) Install the propeller shaft into the sleeve yoke.

12. INSPECT FRONT PROPELLER SHAFT UNIVERSAL JOINT SPIDER BEARING

13. INSPECT PROPELLER SHAFT ASSY FRONT

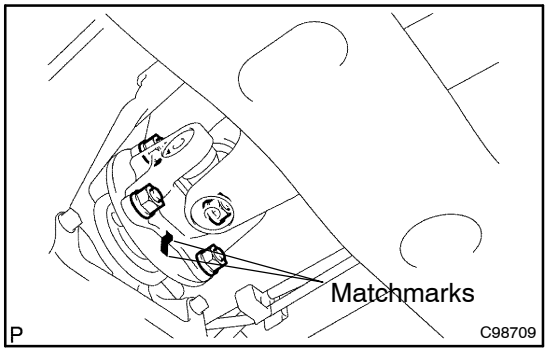
HINT:
When replacing the spider bearing, be sure that the grease fitting assembly hole is facing to the direction shown in the illustration.





14. INSTALL PROPELLER SHAFT ASSY FRONT

(a) Align the matchmarks on the yoke and differential flange.
(b) Install the propeller shaft assy with the 4 bolts, 4 nuts and 4 washers.
Torque: 88 N·m (897 kgf·cm, 65 ft·lbf)



(c) Align the matchmarks on the yoke and transfer flange.
(d) Install the propeller shaft assy with the 4 nuts and 4 washers.
Torque: 88 N·m (897 kgf·cm, 65 ft·lbf)

15. INSTALL ENGINE UNDER COVER ASSY REAR
16. INSTALL TRANSMISSION UNDER COVER