PROPELLER INTERMEDIATE SHAFT ASSY (LE–TYPE)

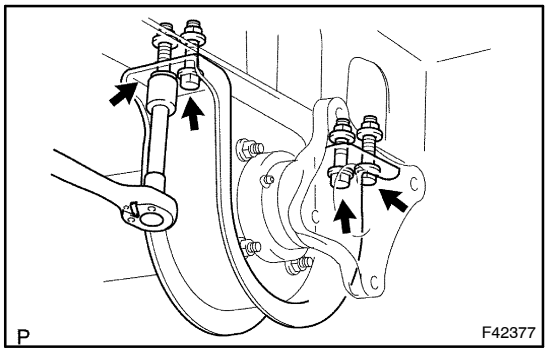
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OVERHAUL

HINT:

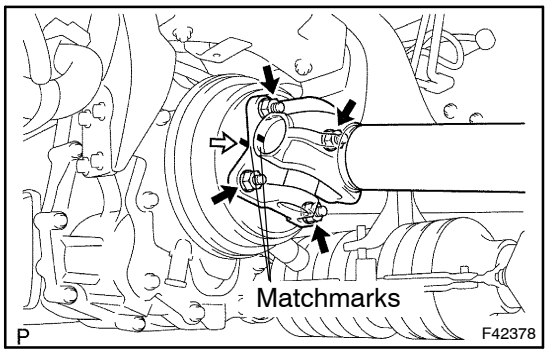
COMPONENTS: See page 30–11

1. REMOVE PROPELLER SHAFT ASSY (See page 30–14)



2. REMOVE PROPELLER INTERMEDIATE SHAFT ASSY

(a) Remove the 4 bolts, 4 spring washers, 8 washers, 4 nuts and center support from the frame crossmember.



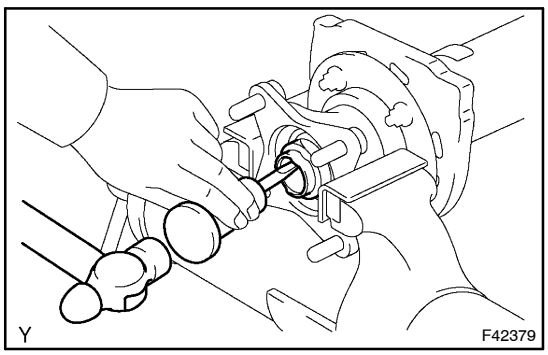
(b) Place matchmarks on the intermediate shaft flange and parking brake drum.

(c) Remove the 4 nuts and 4 washers.

(d) Remove the intermediate shaft.

HINT:

For the 4–joint type, remove another intermediate shaft as well.



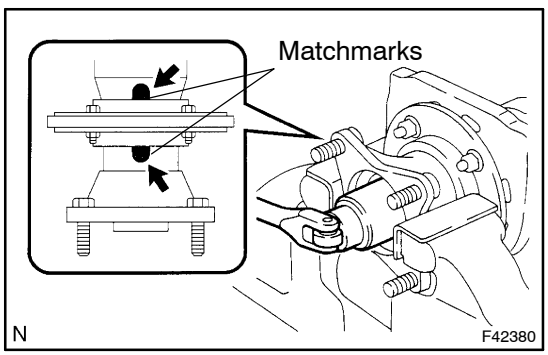
3. REMOVE UNIVERSAL JOINT FLANGE SUB–ASSY

(a) Fix the flange coupling at the center bearing section with a vice.

(b) Using a chisel and hammer, loosen the staked part of the lock nut.

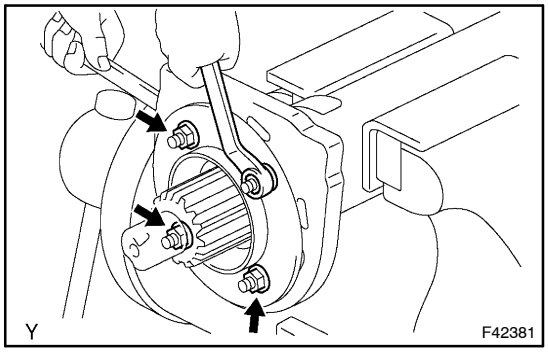
NOTICE:

Completely loosen the staked part of the lock nut, otherwise the screw of the propeller shaft may be damaged.



(c) Place matchmarks on the intermediate shaft and flange coupling.

(d) Using a socket wrench (41 mm), remove the lock nut and flange coupling from the propeller shaft.



4. REMOVE CENTER SUPPORT BEARING ASSY NO.1

(a) Remove the 4 bolts, 4 nuts and 4 washers holding the bearing plate to the cushion rubber, and then remove the bearing plate and cushion rubber.

(b) Lightly hit the periphery of the center bearing, and pull it out from the propeller shaft assembly.

5. INSPECT CENTER SUPPORT BEARING ASSY NO.1

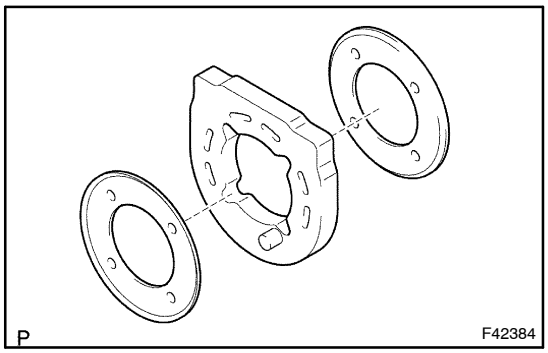
(a) When turning the center bearing by hand, check that it turns smoothly without catching and that there is no crack or damage.

If there is any defect, change it.

(b) If there is any damage in the lip of the center bearing case, change it.

NOTICE:

Do not soak the center bearing in the cleaner.



6. INSPECT CUSHION RUBBER AND BEARING PLATE

(a) If there is any scratch or crack on the surface of the cushion rubber or damage in the bearing plate, replace them.

7. INSPECT PROPELLER INTERMEDIATE SHAFT ASSY

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

Standard runout: 0 – 0.6 mm (0 – 0.024 in.)

Maximum runout: 1.0 mm (0.039 in.)

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

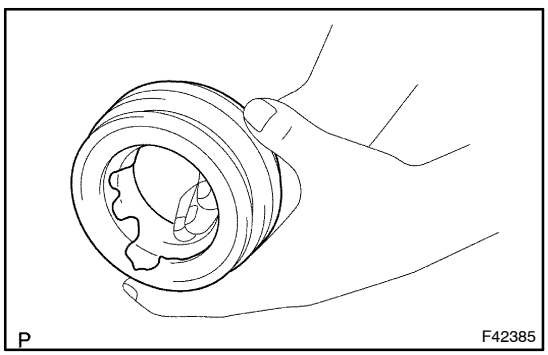
8. INSPECT UNIVERSAL JOINT SPIDER ASSY (See page 30–14)

9. REMOVE UNIVERSAL JOINT SPIDER ASSY (See page 30–14)

10. INSPECT CLEARANCE OF SPIDER JOURNAL AND NEEDLE ROLLER BEARING (See page 30–14)

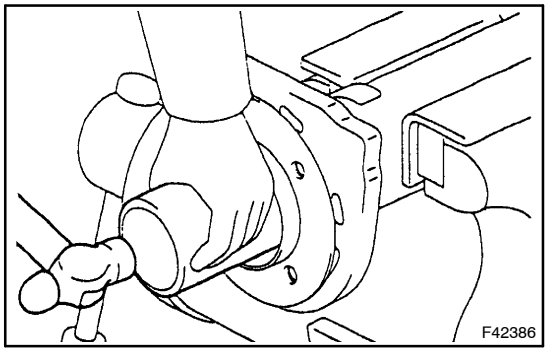
11. INSTALL UNIVERSAL JOINT SPIDER ASSY (See page 30–14)

12. INSPECT UNIVERSAL JOINT SPIDER ASSY (See page 30–14)



13. INSTALL CENTER SUPPORT BEARING ASSY NO.1

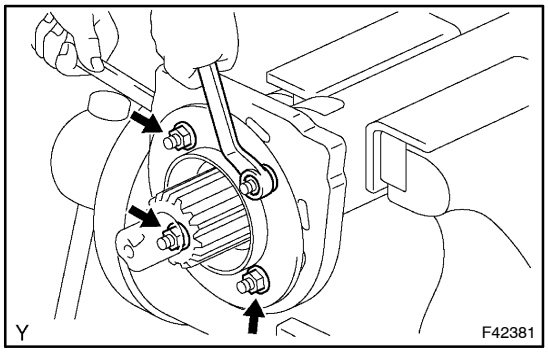
(a) Apply MP grease to the inside of the center bearing.



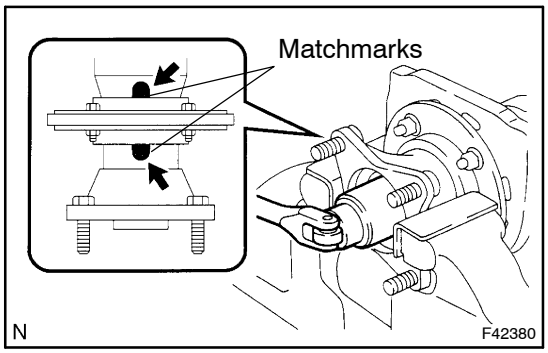
(b) After inserting the bearing plate in the propeller shaft, drive in the center bearing.

NOTICE:

- **When driving in the center bearing, pay attention not to damage it.**
- **Use lithium type bearing grease for the bearing.**



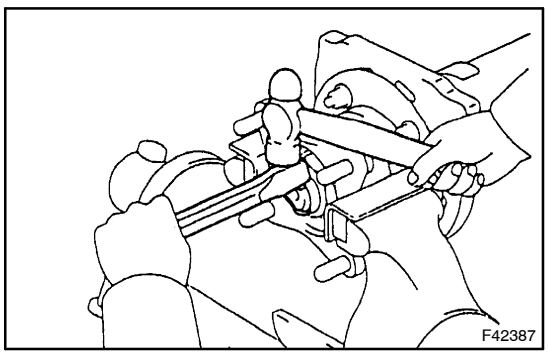
(c) After inserting the cushion rubber, install the 2 bearing plates with the 4 bolts, 4 washers and 4 nuts.
Torque: 26.5 N·m (270 kgf·cm, 19.5 ft·lbf)



14. INSTALL UNIVERSAL JOINT FLANGE SUB–ASSY

(a) After aligning the matchmarks of the flange coupling and shaft, insert the flange coupling into the spline of the shaft.

(b) Using a socket wrench (41 mm), tighten a new lock nut.
Torque: 686 N·m (7,000 kgf·cm, 506 ft·lbf)



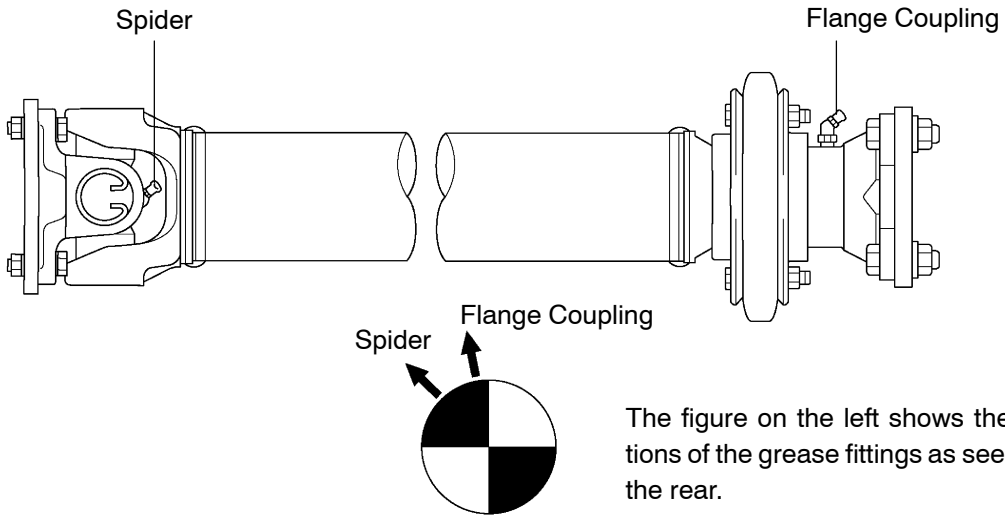
(c) Using a chisel and hammer, stake the lock nut.

15. INSPECT PROPELLER INTERMEDIATE SHAFT ASSY

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
Intermediate Shaft

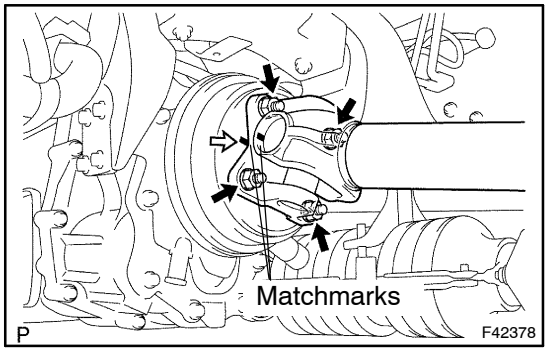


The figure on the left shows the locations of the grease fittings as seen from the rear.

HINT:

Fill up the grease fitting assembling hole with MP grease.

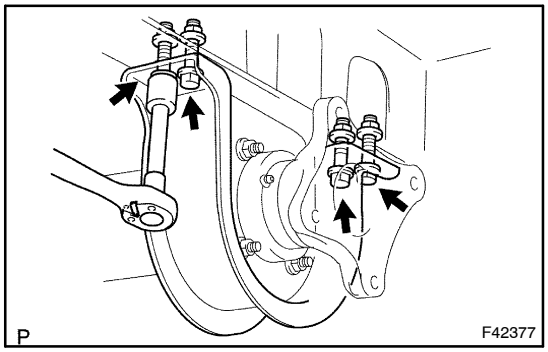
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16. INSTALL PROPELLER INTERMEDIATE SHAFT ASSY

(a) Align the matchmarks on the yoke and parking brake drum down or flange.

(b) Install the 4 bolts, 4 washers and 4 nuts.
Torque: 74.5 N·m (760 kgf·cm, 55 ft·lbf)



(c) Install the center support to the frame crossmember with the 4 bolts, 4 spring washers, 8 washers and 4 nuts .
Torque: 51.5 N·m (525 kgf·cm, 38 ft·lbf)

17. INSTALL PROPELLER SHAFT ASSY (See page 30–14)