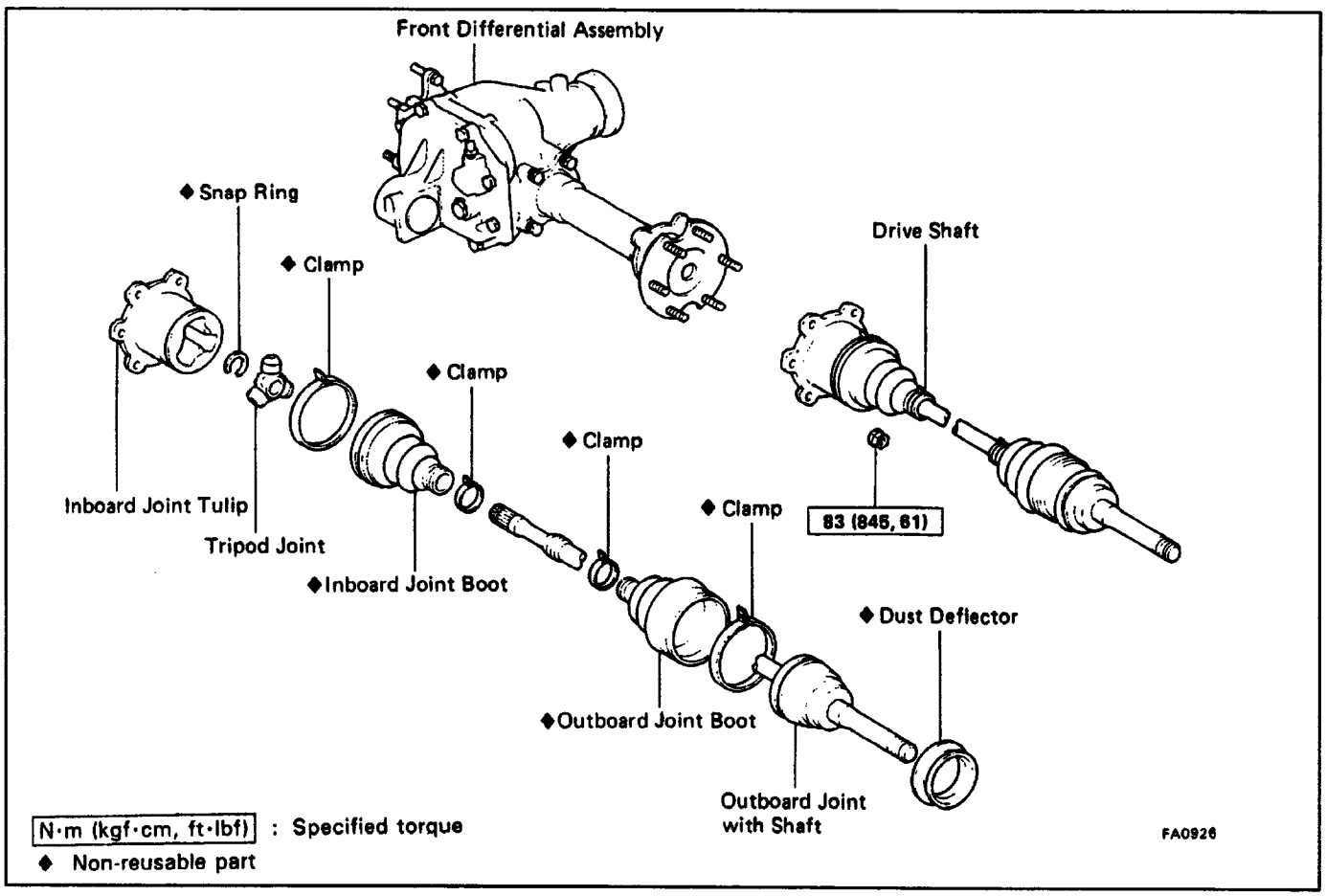
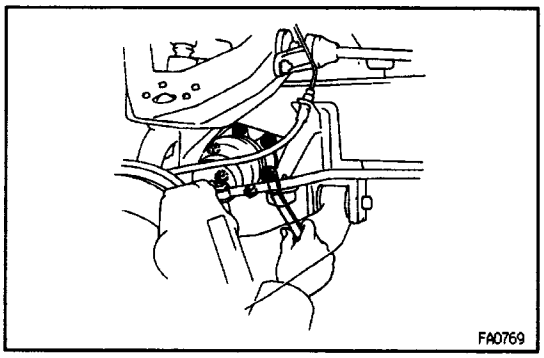
FRONT DRIVE SHAFT

COMPONENTS



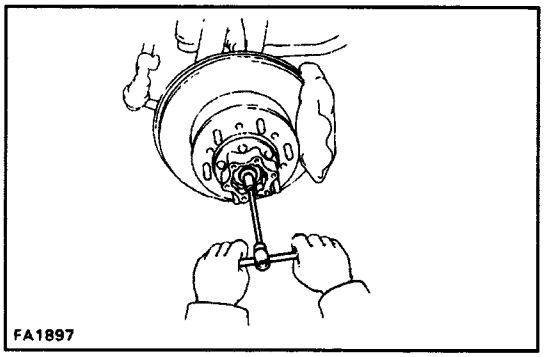


FRONT DRIVE SHAFT REMOVAL

1. JACK UP VEHICLE AND REMOVE FRONT WHEEL

2. LOOSEN NUTS HOLDING FRONT DRIVE SHAFT

Loosen the 6 nuts, while depressing the brake pedal.



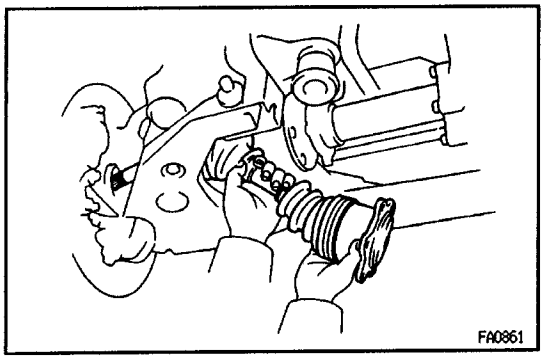
3. REMOVE FREE WHEELING HUB OR FLANGE

Free wheeling hub (See page SA–26)

Flange (See page SA–13)

4. REMOVE SNAP RING AND SPACER

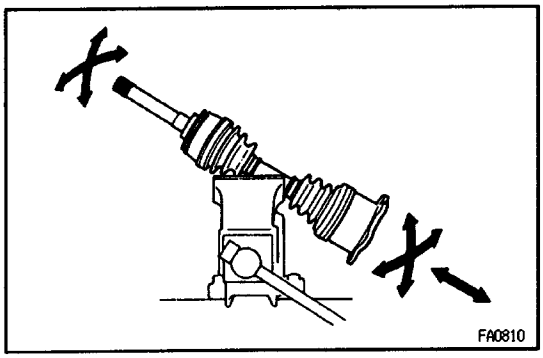
Using a snap ring expander, remove the snap ring from the drive shaft.



5. REMOVE FRONT DRIVE SHAFT

First pull the front drive shaft inboard joint tulip from the side gear shaft, and then pull it out from the steering knuckle.

FRONT DRIVE SHAFT DISASSEMBLY

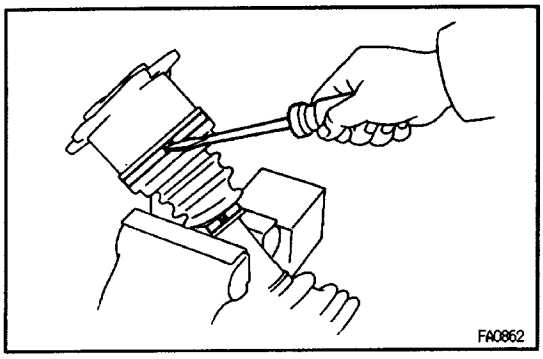


1. CHECK DRIVE SHAFT

(a) Check to see there is no play in the inboard and outboard joints.

(b) Check to see that the inboard joint slides smoothly in the thrust direction.

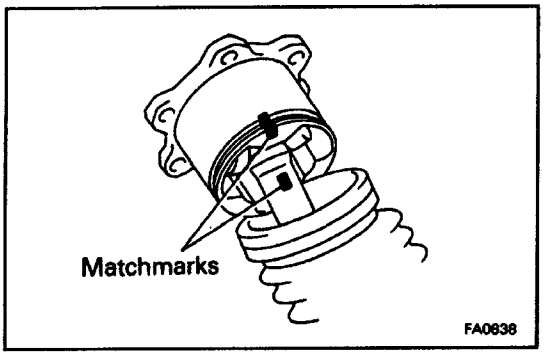
(c) Check to see that there is no obvious play in the radial direction of the universal joints.



2. REMOVE INBOARD JOINT BOOT CLAMPS

(a) Using a screwdriver, remove the 2 boot clamps.

(b) Slide the inboard joint boot toward the outboard joint.

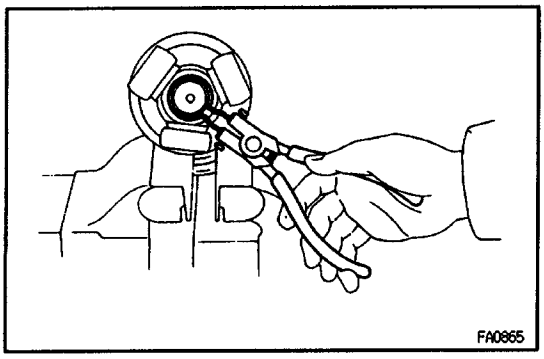


3. DISASSEMBLE INBOARD JOINT TULIP

(a) Place matchmarks on the inboard joint tulip and shaft.

NOTICE: Do not punch the marks.

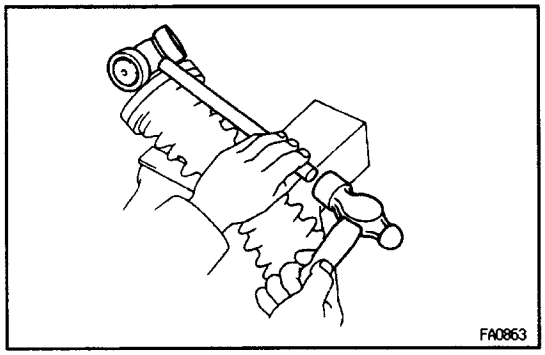
(b) Remove the inboard joint tulip from the drive shaft.



4. DISASSEMBLE TRIPOD JOINT

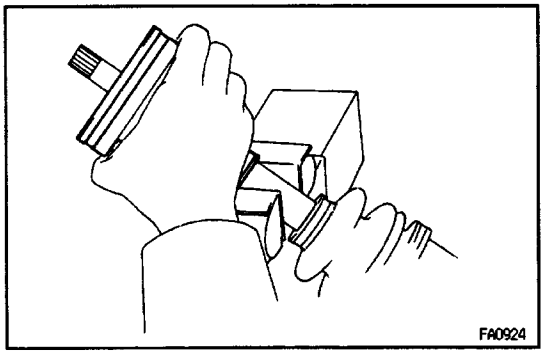
(a) Using a snap ring expander and remove the snap ring.

(b) Place matchmarks on the shaft and tripod joint.

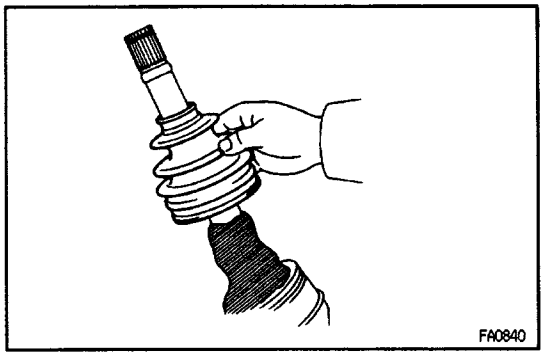


(c) Using a brass bar and hammer, remove the tripod joint from the drive shaft.

NOTICE: Do not punch the roller.



5. REMOVE INBOARD JOINT BOOT

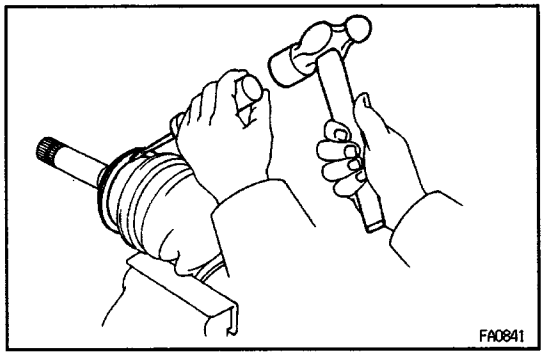


6. REMOVE OUTBOARD JOINT BOOT CLAMPS AND BOOT

(a) Using a screwdriver, remove the 2 boot clamps from the outboard joint.

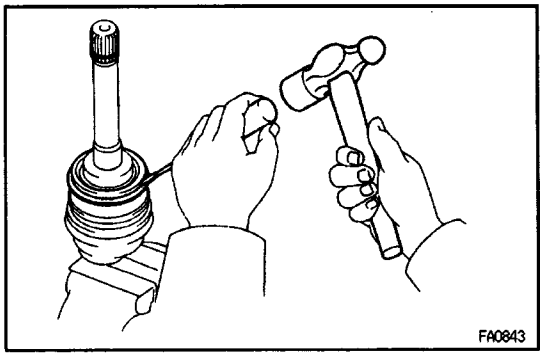
(b) Remove the boot from the outboard joint.

NOTICE: Do not disassemble the outboard joint.



7. REMOVE DUST DEFLECTOR

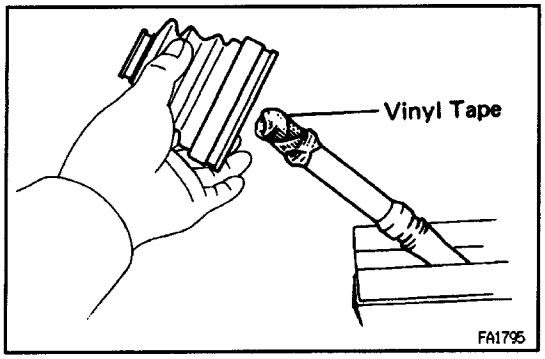
Using a screwdriver and hammer, remove the dust deflector.



FRONT DRIVE SHAFT ASSEMBLY

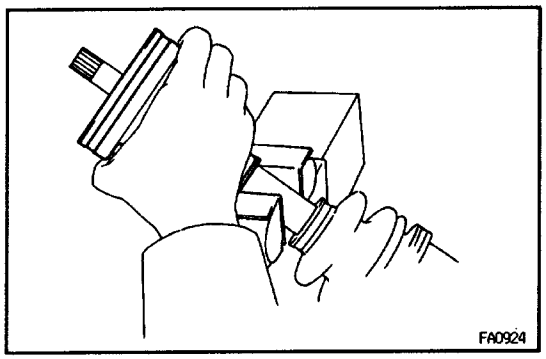
1. INSTALL DUST DEFLECTOR

Using a screwdriver and hammer, install a new dust deflector.

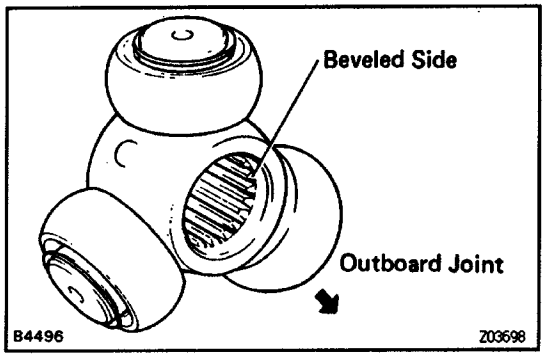


2. TEMPORARILY INSTALL NEW BOOT AND NEW BOOT CLAMPS TO OUTBOARD JOINT

HINT: Before installing the boot, wrap vinyl tape around the spline of the shaft to prevent damaging the boot.

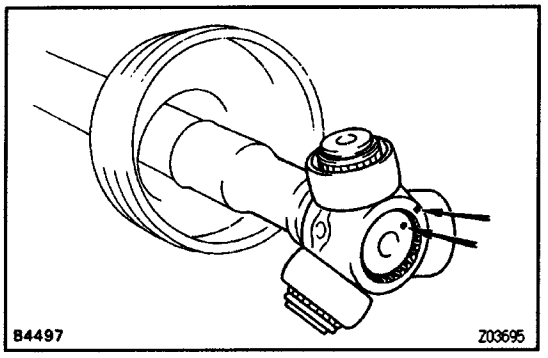


3. TEMPORARILY INSTALL NEW BOOT AND NEW BOOT CLAMPS FOR INBOARD JOINT TO DRIVE SHAFT

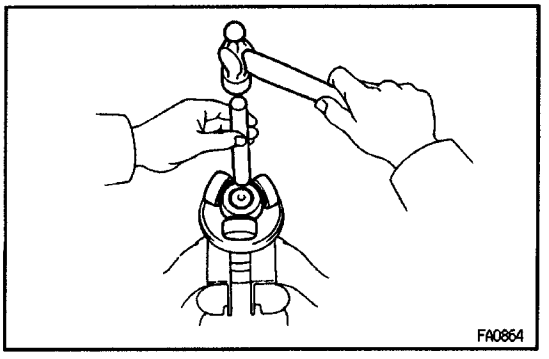


4. ASSEMBLY TRIPOD JOINT

(a) Place the beveled side of the tripod axial spline toward the outboard joint.

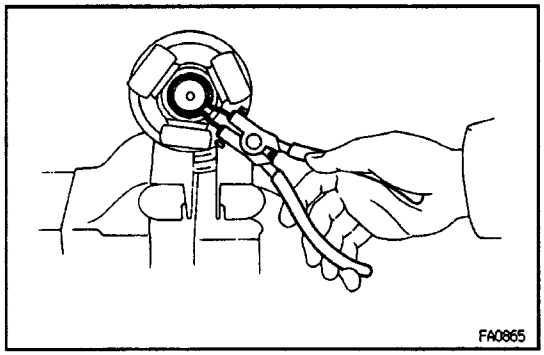


(b) Align the matchmarks placed before disassembly.

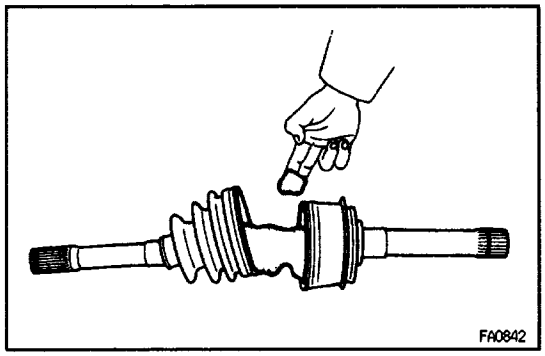


(c) Using a brass bar and hammer, tap in the tripod joint onto the drive shaft.

NOTICE: Do not punch the roller.



(d) Using a snap ring expander, install a new snap ring.



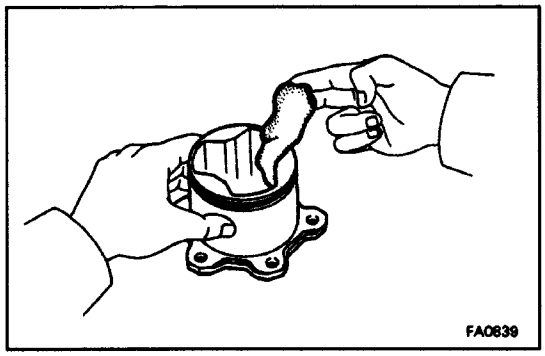
5. ASSEMBLE BOOT TO OUTBOARD JOINT

Before assembling the boot, pack in grease.

HINT: Use the black grease supplied in the boot kit.

Grease capacity:

176 – 186 9 (0.39 – 0.41 lb)



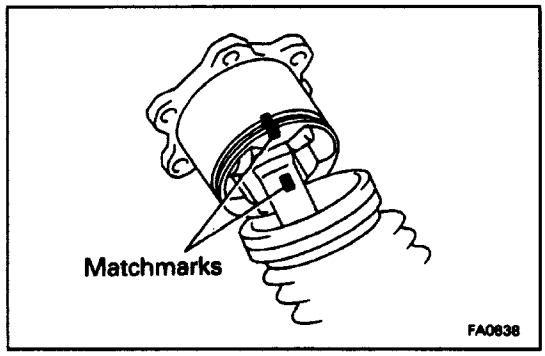
6. ASSEMBLE INBOARD JOINT TO INBOARD JOINT TULIP

(a) Pack in grease to the inboard tulip and boot.

HINT: Use the brown grease supplied in the boot kit.

Grease capacity:

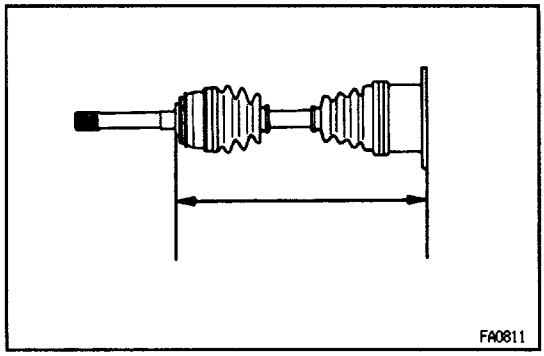
270 – 280 g (0.60 – 0.62 lb)



(b) Align the matchmarks placed before disassembly.

(c) Install the inboard tulip to the drive shaft.

(d) Temporarily install the boot to the inboard tulip.



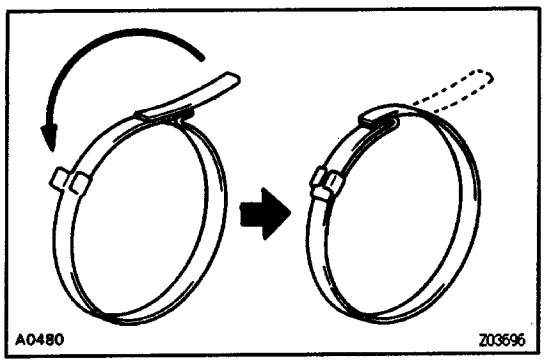
7. ASSEMBLE BOOT CLAMPS TO BOTH BOOTS

(a) Be sure the boot is on the shaft groove.

(b) Ensure that the boot is not stretched or contracted when the drive shaft is at standard length.

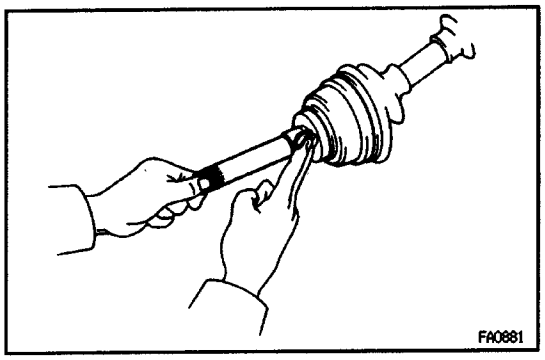
Standard length:

393.9 – 403.9 mm (15.508 – 15.902 in.)



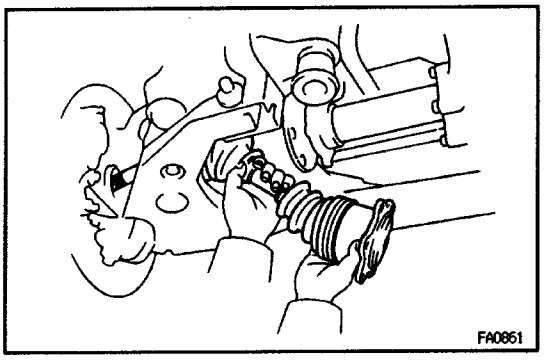
(c) Bend the band and lock it, as shown in the illustration.

FRONT DRIVE SHAFT INSTALLATION



1. APPLY MOLYBDENUM DISULPHIDE LITHIUM BASE GREASE

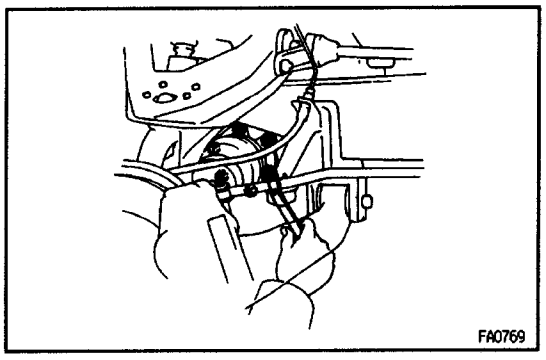
Apply molybdenum disulphide lithium base grease to the outboard joint shaft.



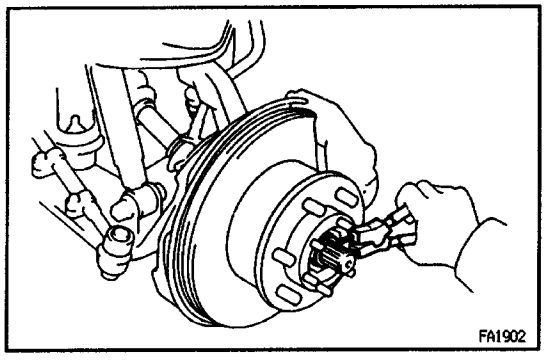
2. INSTALL FRONT DRIVE SHAFT

(a) First insert the outboard joint shaft to the steering knuckle, and then install it to the side gear shaft.

HINT: Do not damage the boots.



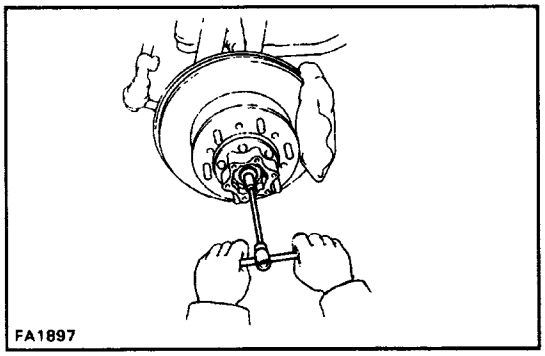
(b) Temporarily install the 6 nuts.



3. INSTALL SPACER AND SNAP RING

(a) Install the spacer.

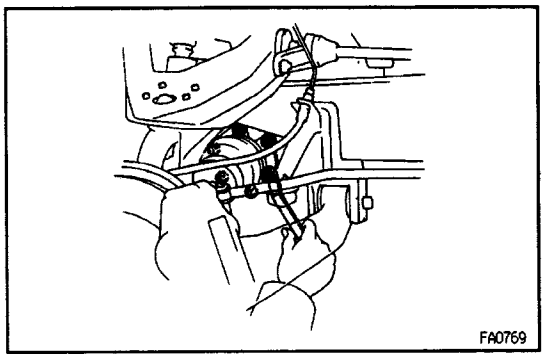
(b) Using a snap ring expander, install the snap ring to the outboard joint shaft.



4. INSTALL FREE WHEELING HUB OR FLANGE

Free wheeling hub (See page SA–30)

Flange (See page SA–18)



5. TORQUE FRONT DRIVE SHAFT INSTALLATION NUTS

Torque the6 nuts, while depressing the brake pedal.

Torque: 83 N–m (845 kgf–cm, 61 ft–lbf)

6. INSTALL FRONT WHEEL AND LOWER VEHICLE

Torque: 103 N–m (1,050 kgf–cm, 76 ft–lbf)