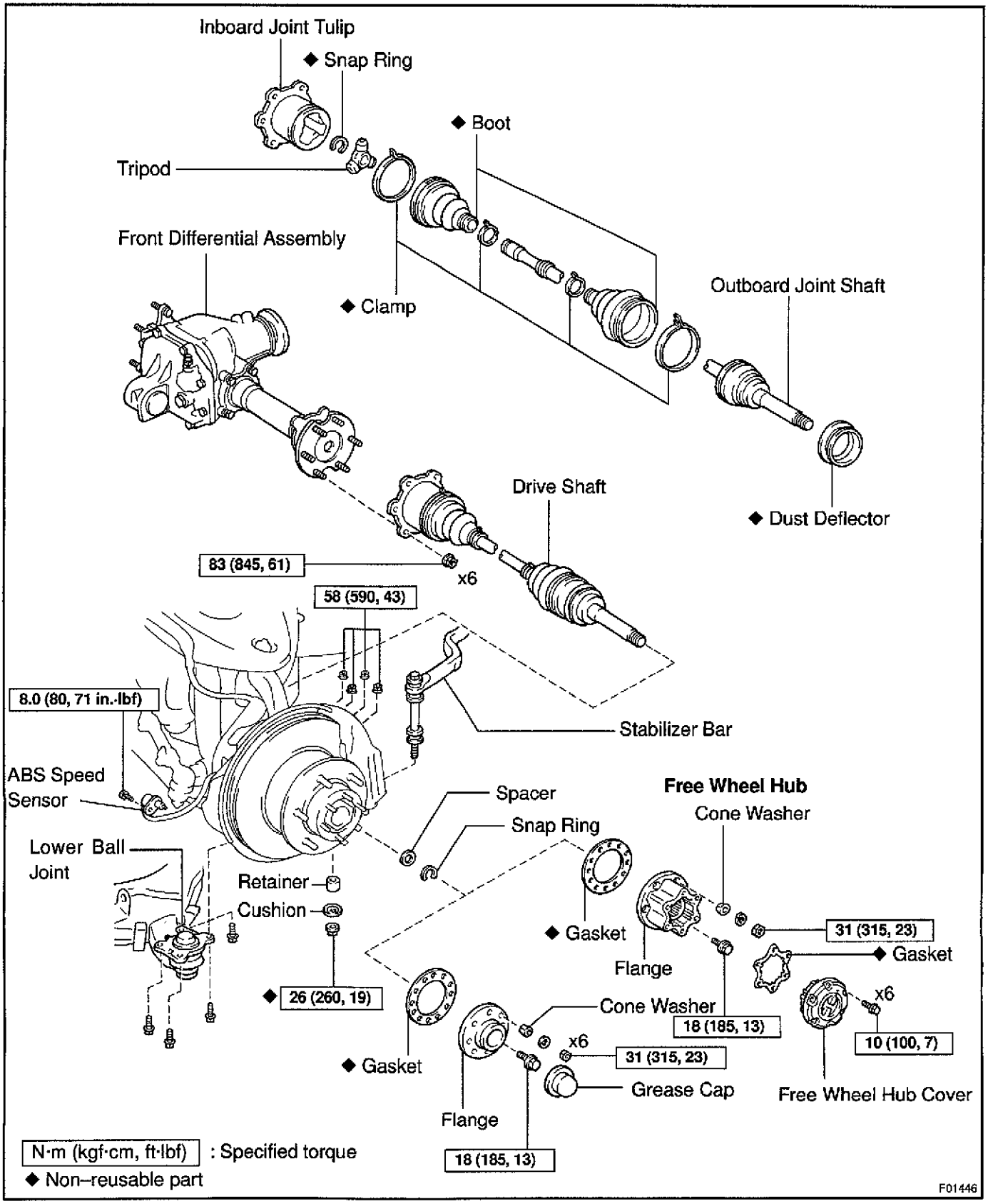
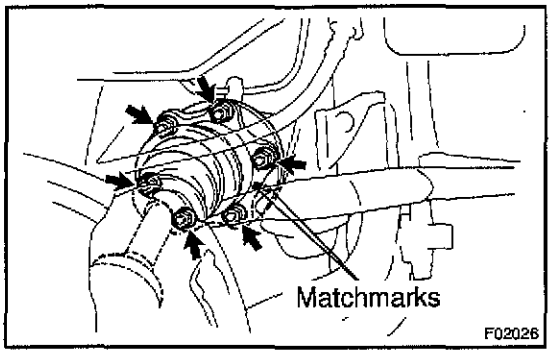
FRONT DRIVE SHAFT (4WD)

COMPONENTS

SA0LX-01



SA0LY-01



REMOVAL

1. **REMOVE FRONT WHEEL**
   Torque: 105 N·m (1,050 kgf·cm, 76 ft·lbf)
2. **LOOSEN NUTS HOLDING FRONT DRIVE SHAFT**

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

(b) Loosen the 6 nuts, with depressing the brake pedal.
Torque: 83 N·m (845 kgf·cm, 61 ft·lbf)

3. **REMOVE FLANGE OR FREE WHEELING HUB**
   Flange: See page SA–26
   Free wheel hub: See page SA–34
4. **REMOVE SNAP RING AND SPACER**

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

(b) Remove the spacer.

5. **DISCONNECT STABILIZER BAR LINK FROM LOWER SUSPENSION ARM (See page SA–161)**
6. **DISCONNECT LOWER BALL JOINT FROM LOWER SUSPENSION ARM (See page SA–134)**
7. **REMOVE FRONT DRIVE SHAFT**

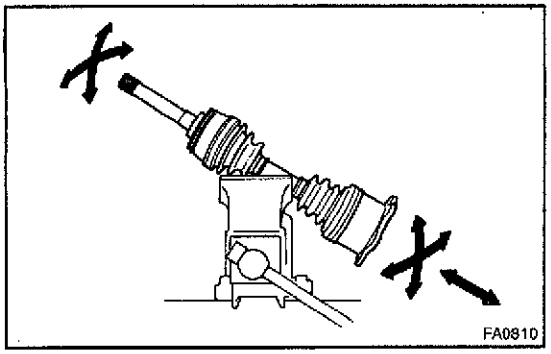
First pull out the drive shaft inboard joint tulip from the side gear shaft and then pull drive shaft out from the steering knuckle.

NOTICE:

Be careful not to damage the oil seal and boot.

SA0LZ-01

DISASSEMBLY



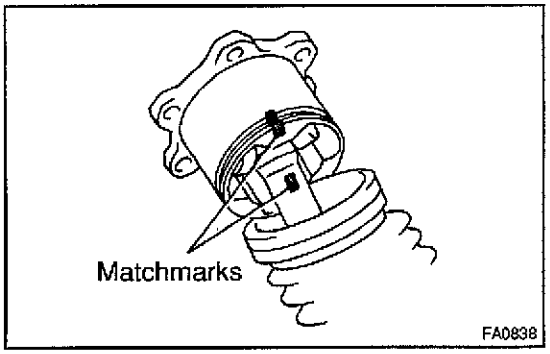
1. CHECK DRIVE SHAFT

(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.

(d) Check the boot for damage.



2. REMOVE INBOARD AND OUTBOARD JOINT BOOT CLAMPS

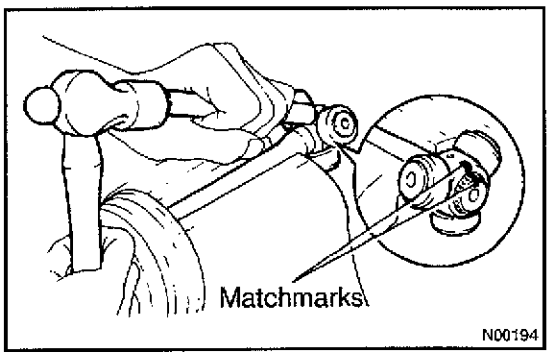
(a) Using a screwdriver, remove the 4 boot clamps.

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

3. DISASSEMBLE INBOARD JOINT TULIP

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

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



4. DISASSEMBLE TRIPOD

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

(b) Place matchmarks on the shaft and tripod.

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

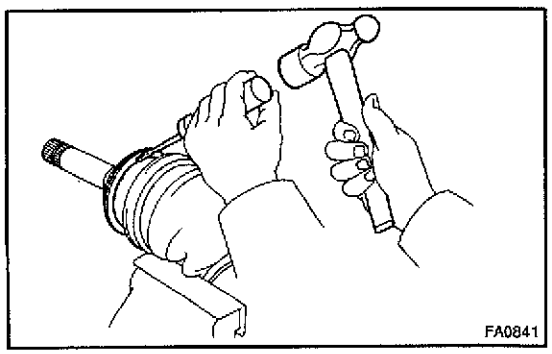
NOTICE:

Do not tap the roller.

5. REMOVE INBOARD AND OUTBOARD JOINT BOOT CLAMPS AND BOOTS

NOTICE:

Do not disassemble the outboard joint.

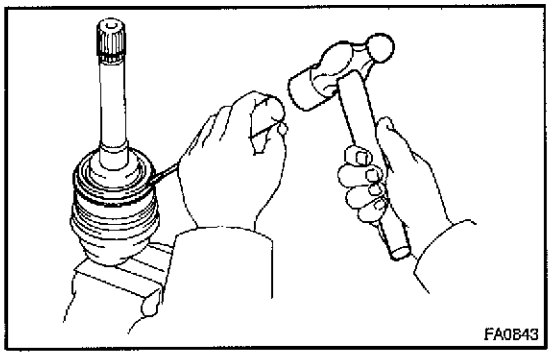


6. REMOVE DUST DEFLECTOR

Using a screwdriver and hammer, remove the dust deflector.

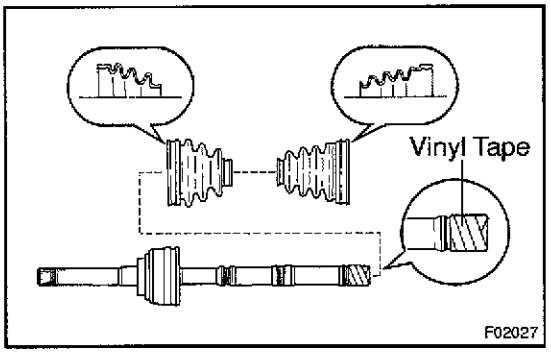
SA0M0-01

REASSEMBLY



1. INSTALL DUST DEFLECTOR

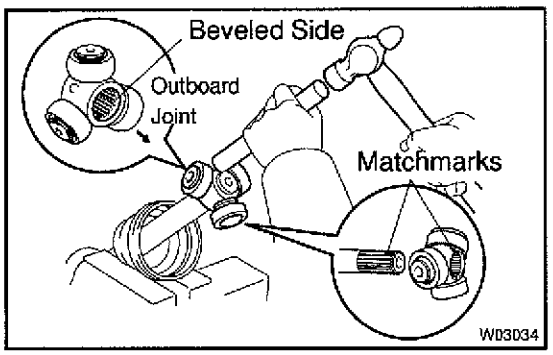
Using a screwdriver and hammer, install a new dust deflector.



2. TEMPORARILY INSTALL NEW INBOARD AND OUTBOARD BOOTS

HINT:

Before installing the boots, wrap vinyl tape around the spline of the drive shaft to prevent the boot from being damaged.



3. INSTALL TRIPOD

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

(b) Align the matchmarks as they were placed before disassembly.

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

NOTICE:

Do not tap the roller

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

4. ASSEMBLE BOOT TO OUTBOARD JOINT

Before assembling the boot, coat the outboard joint and boot with grease in the boot kit.

Grease capacity: (Color = Black)
176 – 186 g (6.21 – 6.56 oz.)

5. ASSEMBLE INBOARD JOINT TO INBOARD JOINT TULIP

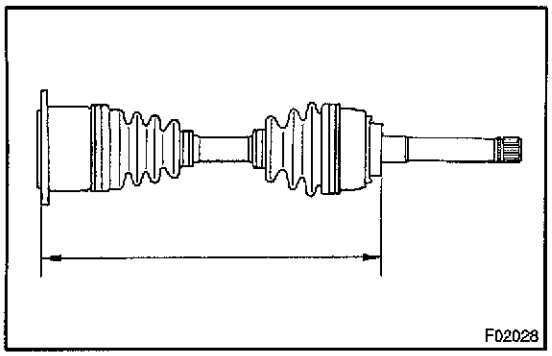
(a) Coat the inboard joint tulip and boot with grease in the boot kit.

Grease capacity: (Color = Yellow ocher)
288 – 298 g (10.16 – 10.51 oz.)

(b) Align the matchmarks as they were placed before disassembly.

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

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



6. ASSEMBLE NEW BOOT CLAMPS TO BOTH BOOTS

(a) Make sure the 2 boots are on the shaft groove.

(b) Make sure that the 2 boots are not stretched or contracted when the drive shaft is at standard length.

Standard length:

398.6 – 408.6 mm (15.693 – 16.087 in.)

(c) Place 4 new boot clamps.

(d) Using a screwdriver, bend the clamps and locks.

7. CHECK DRIVE SHAFT (See page SA–48)

SA0MI–01

INSTALLATION

Installation is in the reverse order of removal (See page SA–47).

AFTER INSTALLATION, CHECK FRONT WHEEL ALIGNMENT (See page SA–12)