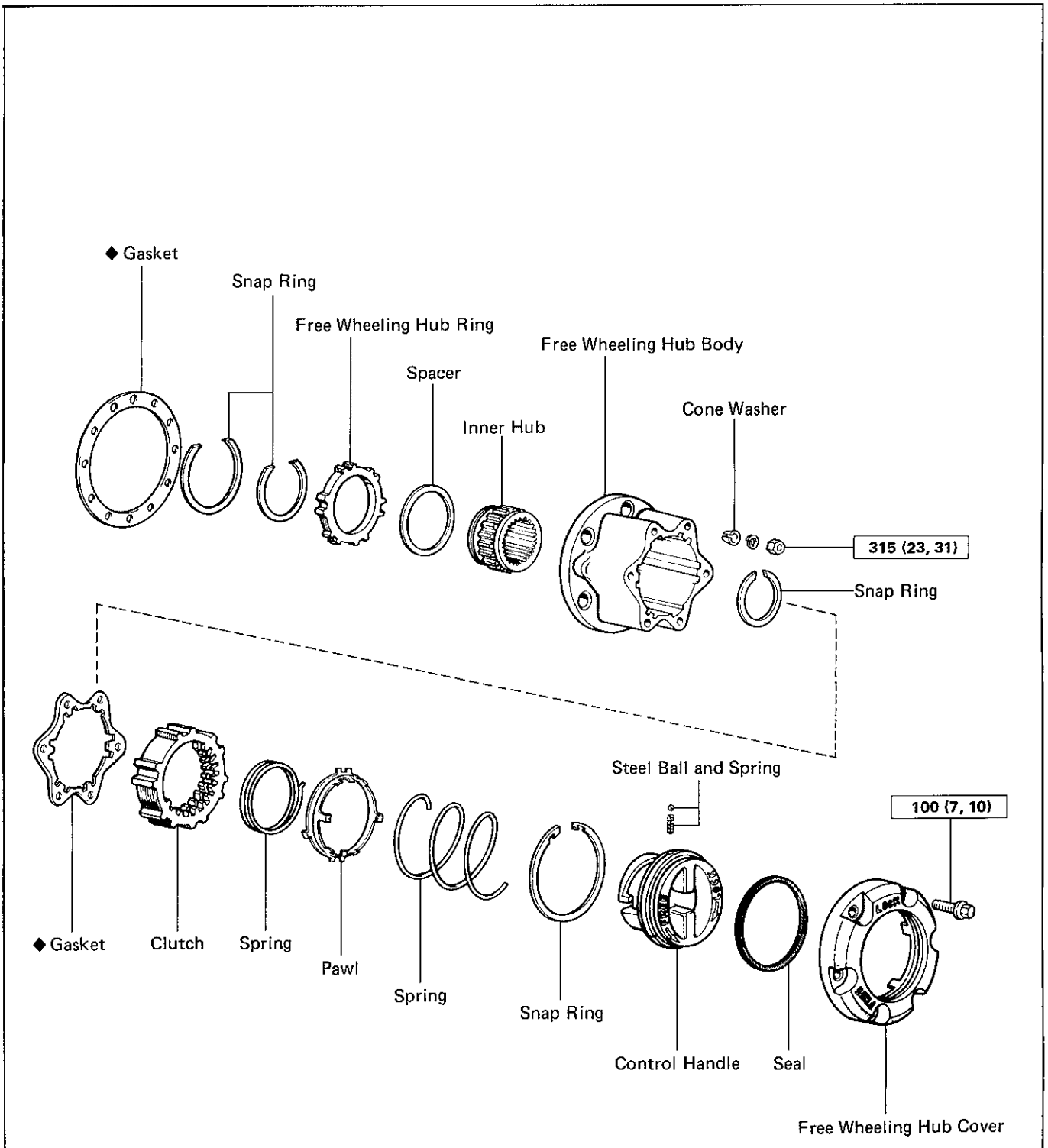
FREE WHEELING HUB

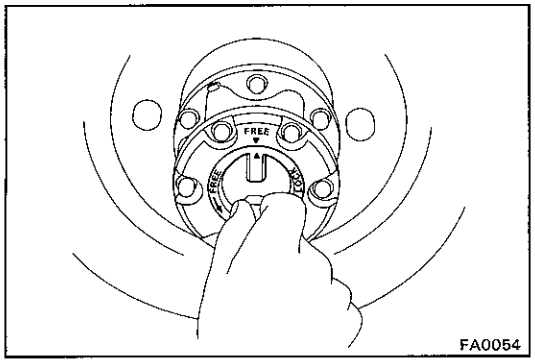
COMPONENTS



kg-cm (ft-lb, N·m) : Specified torque

◆ Non-reusable part

SA0275

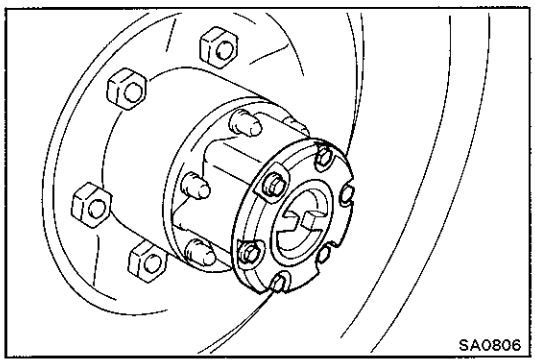


REMOVAL OF FREE WHEELING HUB

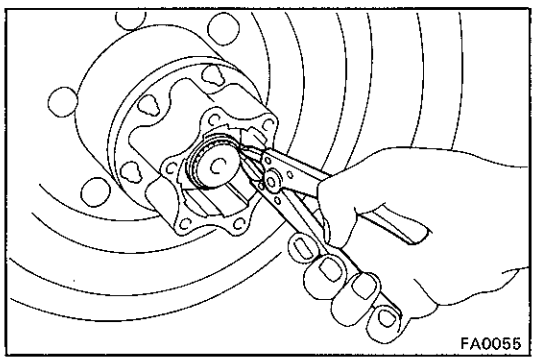
(See page SA-6)

1. REMOVE FREE WHEELING HUB COVER

(a) Set the control handle to FREE.

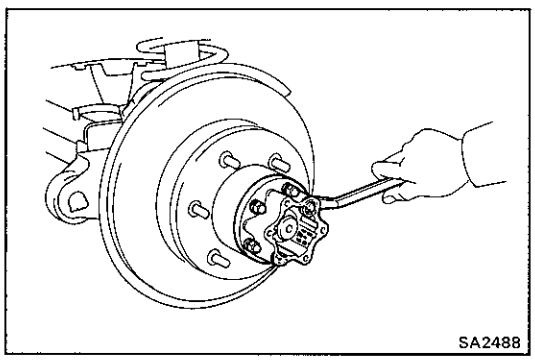


(b) Remove the six cover mounting bolts and pull off the cover.



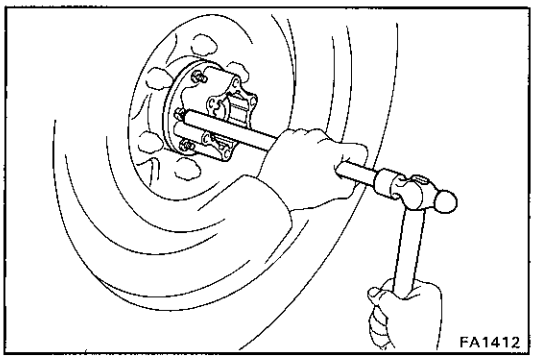
2. REMOVE SNAP RING

Using snap ring pliers, remove the snap ring.



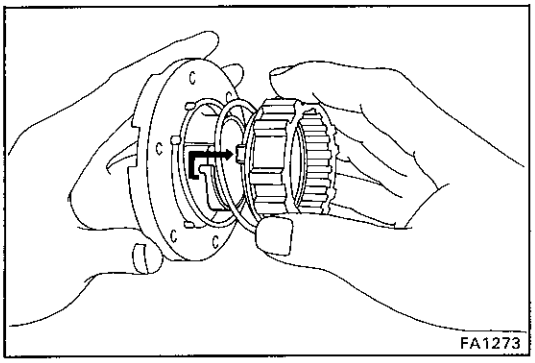
3. REMOVE FREE WHEELING HUB BODY

(a) Remove the six mounting nuts and washers.



(b) Using a brass bar and hammer, tap on the bolt heads and remove the cone washers.

(c) Pull off the free wheeling hub body.

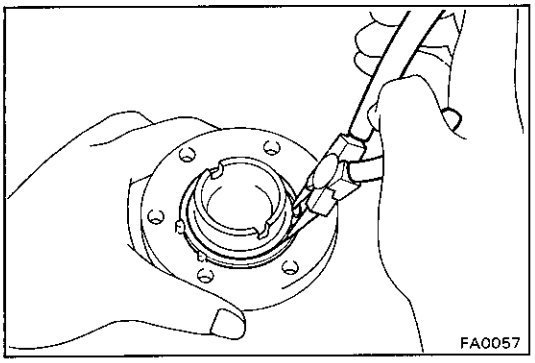


DISASSEMBLY OF FREE WHEELING HUB

(See page SA-6)

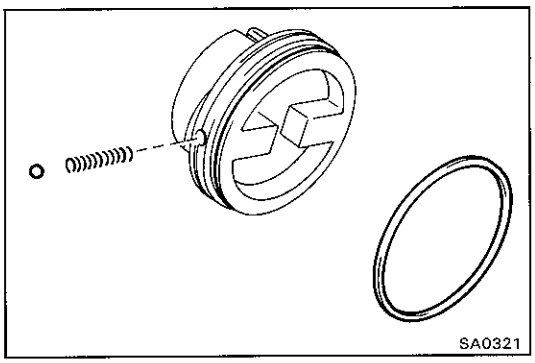
1. REMOVE CONTROL HANDLE FROM FREE WHEELING HUB COVER

(a) Compressing the spring, remove the pawl tab from the handle cam, and remove the clutch with the two springs and pawl.

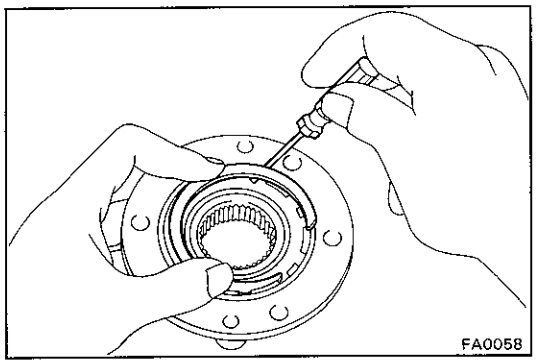


(b) Using snap ring pliers, remove the snap ring from the free wheeling hub cover.

(c) Remove the control handle from the free wheeling hub cover.



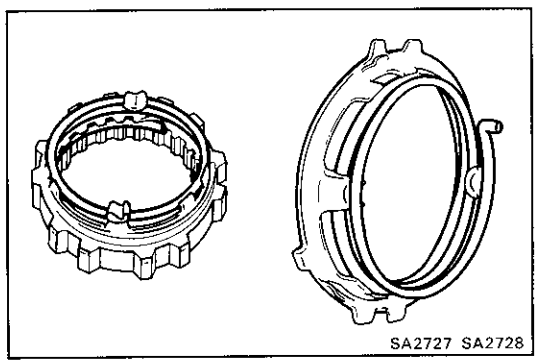
(d) Remove the steel ball, spring and seal from the control handle.



2. REMOVE INNER HUB AND FREE WHEELING HUB RING FROM FREE WHEELING HUB BODY

(a) Using a screwdriver, remove the snap ring from the free wheeling hub body.

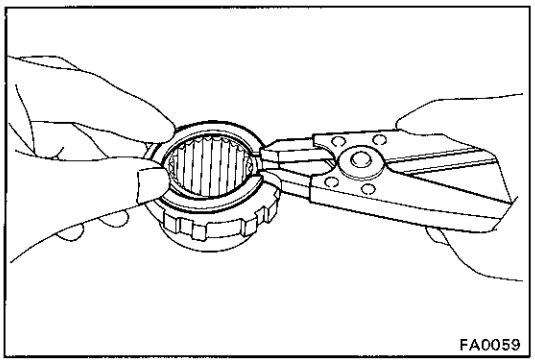
(b) Remove the inner hub with spacer, snap ring and free wheeling hub ring.



3. REMOVE PAWL FROM FREE WHEELING HUB CLUTCH

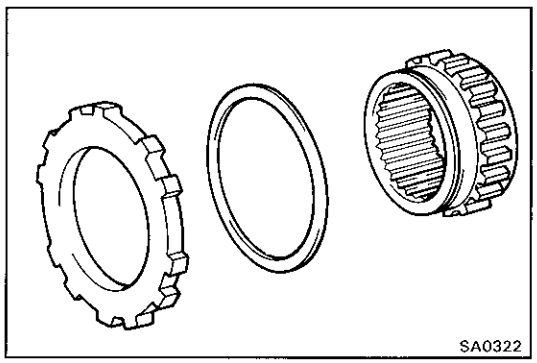
(a) Remove the pawl with the spring from the clutch.

(b) Remove the spring from the pawl.



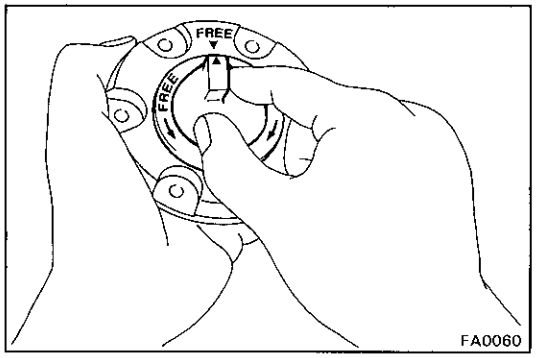
4. REMOVE FREE WHEELING HUB RING FROM INNER HUB

(a) Using snap ring pliers, remove the snap ring from the inner hub.



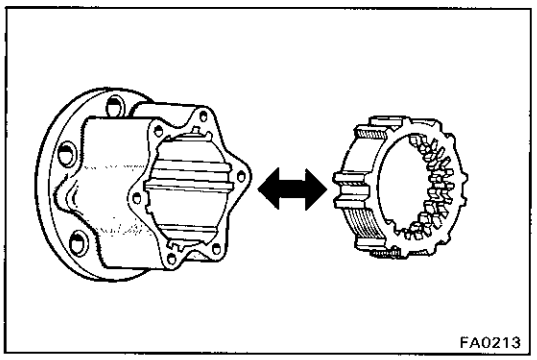
(b) Remove the free wheeling hub ring and spacer from the inner hub.

INSPECTION OF FREE WHEELING HUB



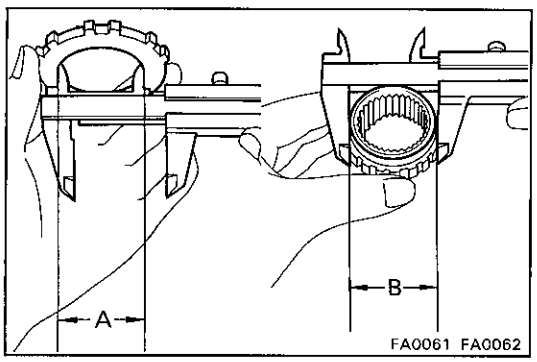
1. INSPECT COVER, HANDLE AND SEAL

Temporarily install the handle with seal in the cover and check that the handle moves smoothly and freely.



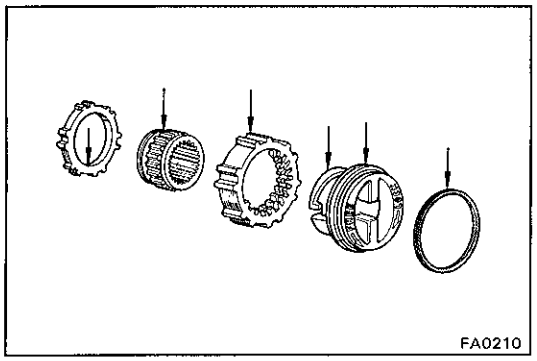
2. INSPECT BODY AND CLUTCH

Check that the clutch moves smoothly in the body.



3. MEASURE OIL CLEARANCE BETWEEN INNER HUB AND FREE WHEELING HUB RING

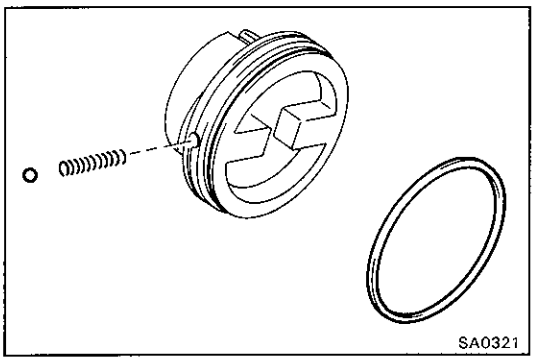
Oil clearance (A — B): 0.3 mm (0.012 in.)



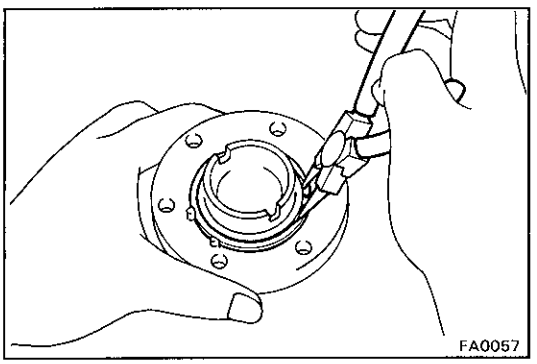
ASSEMBLY OF FREE WHEELING HUB

(See page SA-6)

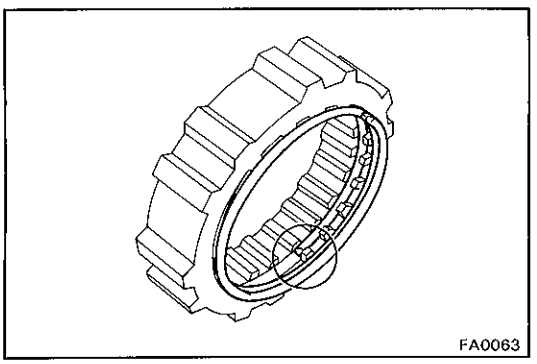
1. **APPLY MP GREASE TO SLIDING SURFACE OF PARTS**



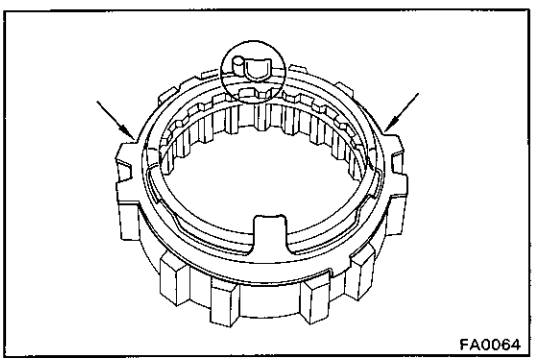
2. **INSTALL CONTROL HANDLE TO COVER**
   (a) Install the seal, spring and steel ball to the handle.
   (b) Insert the handle in the cover.



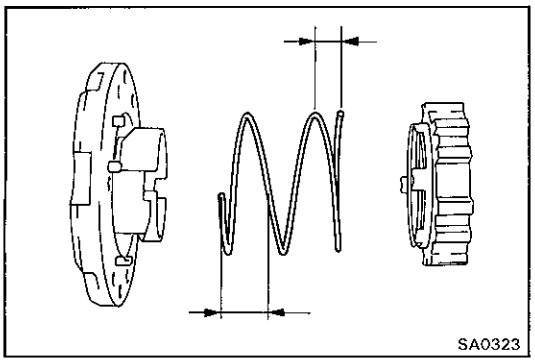
   (c) Using snap ring pliers, install the snap ring to the cover.



3. **INSTALL SPRING ON CLUTCH**
   Install the tension spring to the clutch with the spring end aligned with the initial groove.

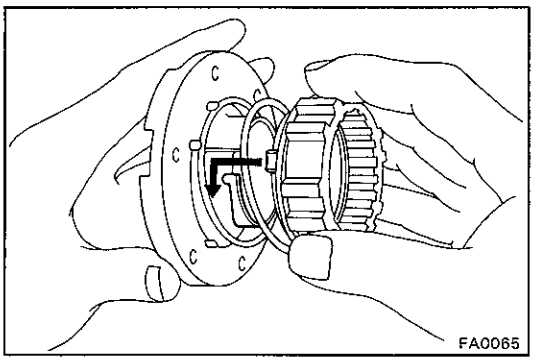


4. **INSTALL PAWL TO CLUTCH**
   (a) Place the pawl on the tension spring with one of the large tabs against the bent spring end.
   (b) Place the ring top of the spring on the small tabs.

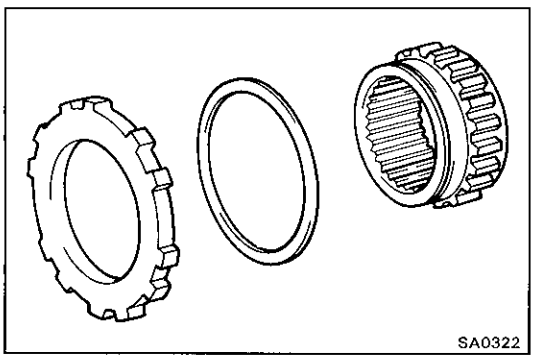


5. INSTALL CLUTCH AND SPRING INTO COVER

(a) Place the spring between the cover and clutch with the large spring end toward the cover.

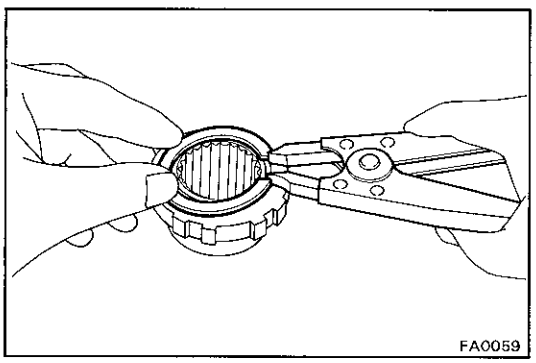


(b) Compress the spring and install the clutch with the pawl tab fit to the handle cam.

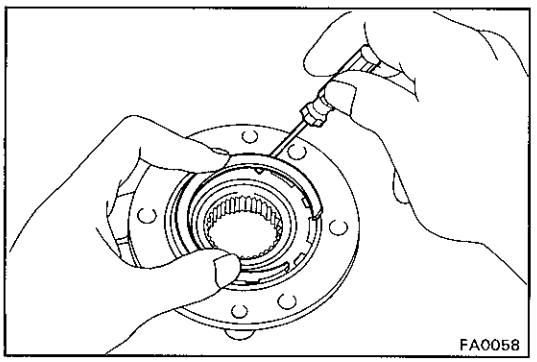


6. INSTALL SPACER AND FREE WHEELING HUB RING TO INNER HUB

(a) Install the spacer and free wheeling hub ring to the inner hub.



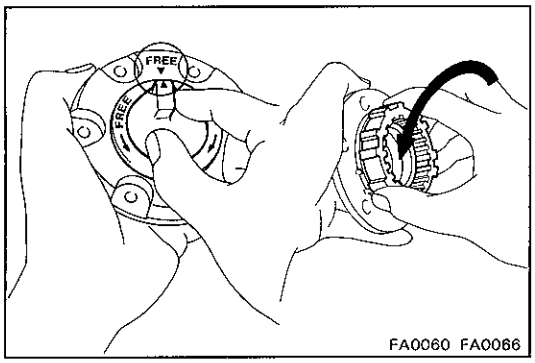
(b) Using snap ring pliers, install the snap ring to the free wheeling hub ring.



7. INSTALL INNER HUB AND FREE WHEELING HUB RING TO FREE WHEELING HUB BODY

(a) Insert the inner hub and free hub ring to the body.

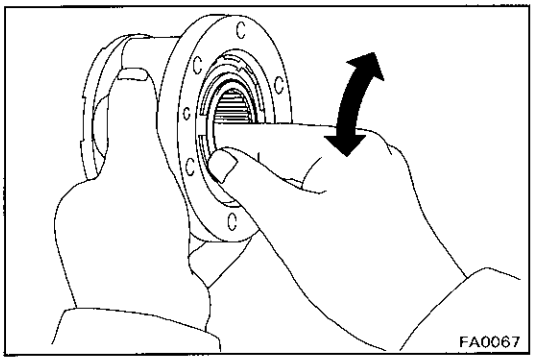
(b) Using a screwdriver, install the snap ring.



FA0060 FA0066

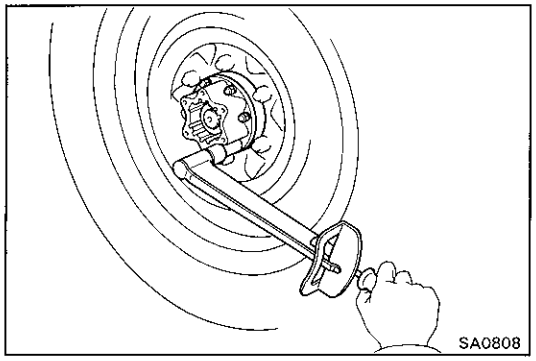
8. TEMPORARILY INSTALL COVER TO BODY AND CHECK FREE WHEELING HUB

(a) Set the control handle and clutch to the "FREE" position.


FA0067

(b) Insert the cover to the body and check that the inner hub turns smoothly.

(c) Remove the cover from the body.



INSTALLATION OF FREE WHEELING HUB

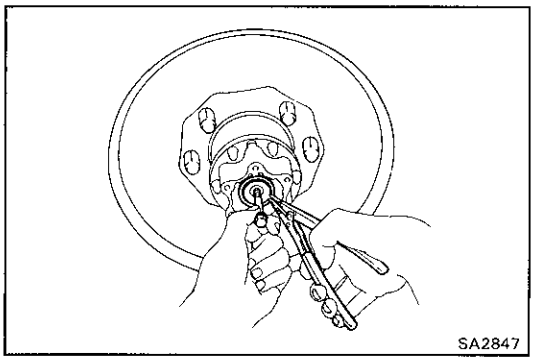
(See page SA-6)

1. INSTALL FREE WHEELING HUB BODY

(a) Place a new gasket on the front axle hub.

(b) Install the free wheeling hub body with the six cone washers, washers and nuts. Torque the nuts.

Torque: 315 kg-cm (23 ft-lb, 31 N·m)

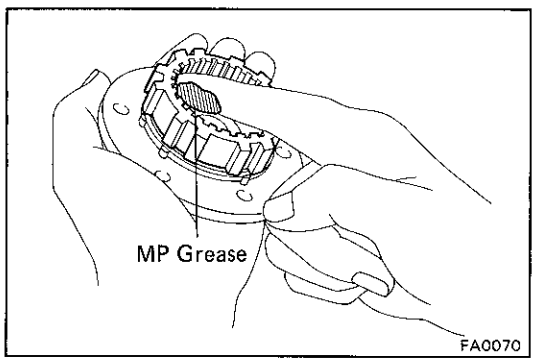


2. INSTALL SNAP RING

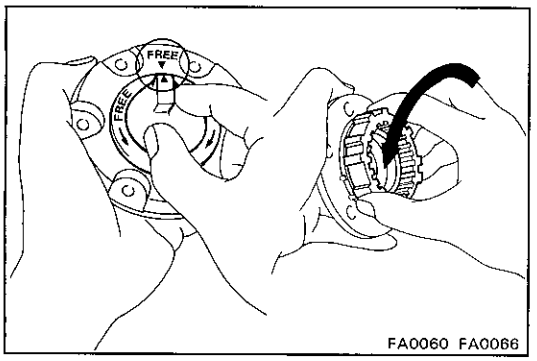
(a) Install a bolt to the axle shaft and pull it out.

(b) Using snap ring pliers, install the snap ring.

(c) Remove the bolt.



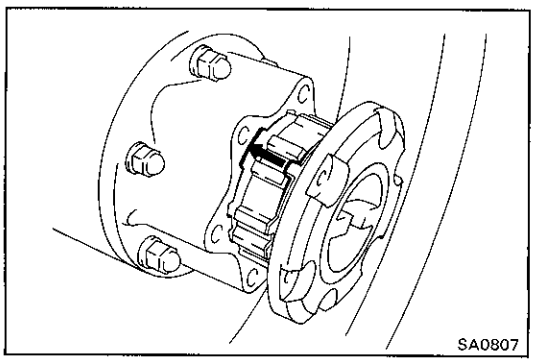
3. APPLY MP GREASE TO INNER HUB SPLINES



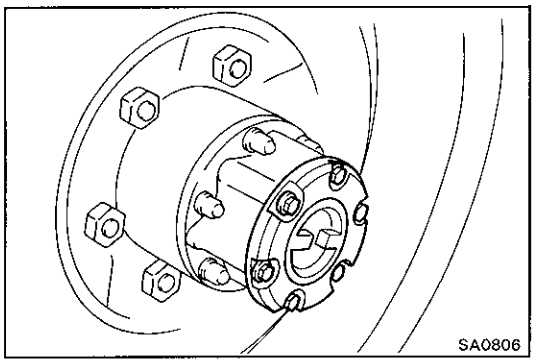
4. INSTALL FREE WHEELING HUB COVER WITH NEW GASKET

(a) Set the control handle and clutch to the "FREE" position.

(b) Place a new gasket on the cover.



(c) Install the cover to the body with the follower pawl tabs aligned with the non-toothed portions of the body.



(d) Install and torque the cover mounting bolts.

Torque: 100 kg-cm (7 ft-lb, 10 N·m)