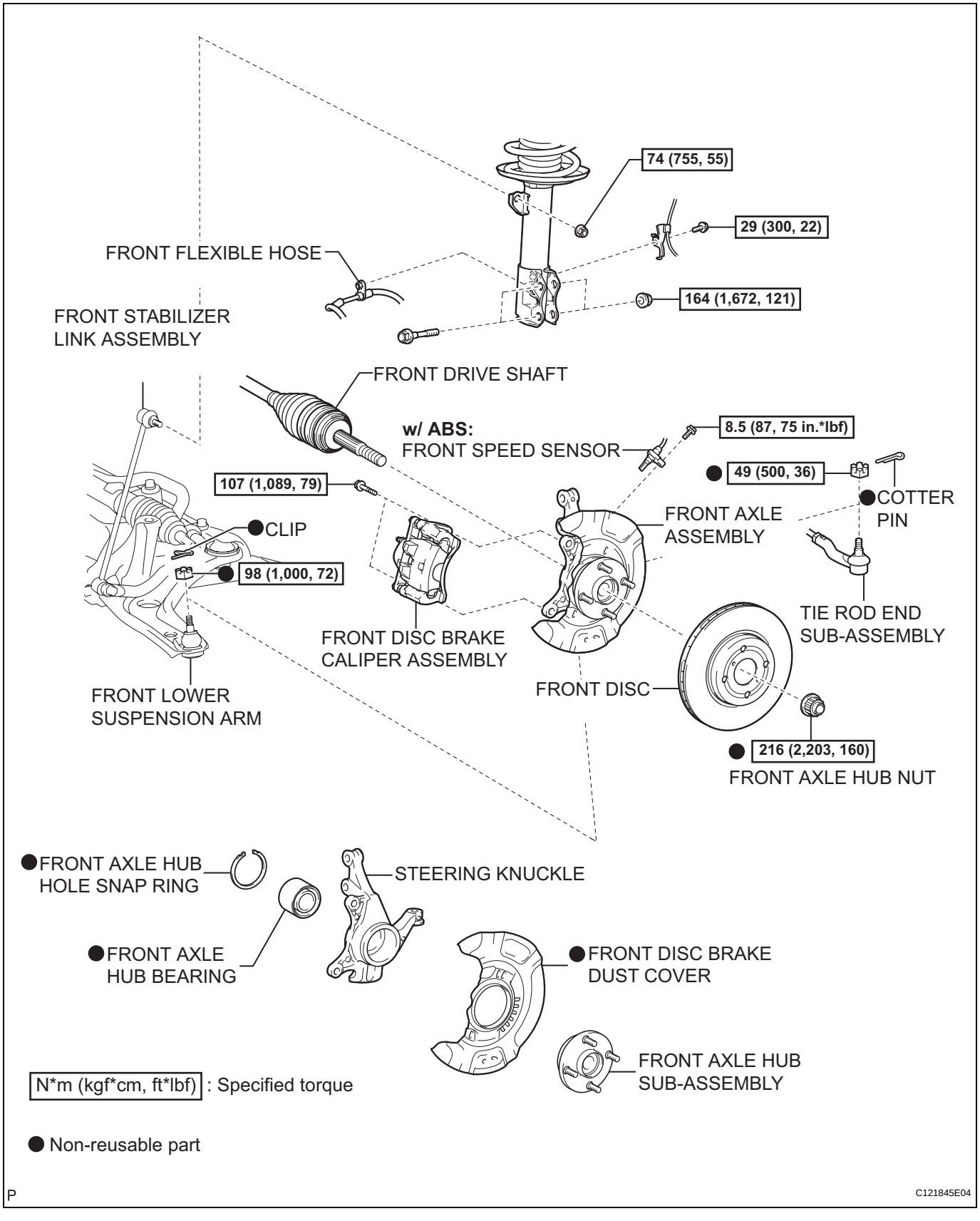
# FRONT AXLE HUB

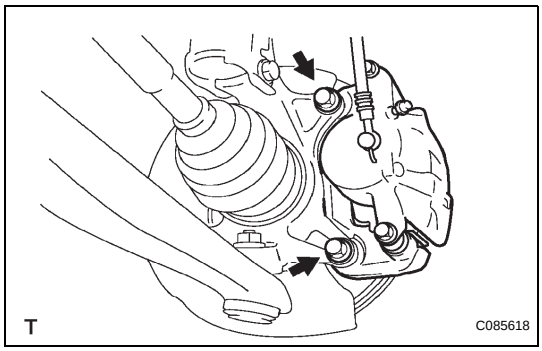
## COMPONENTS



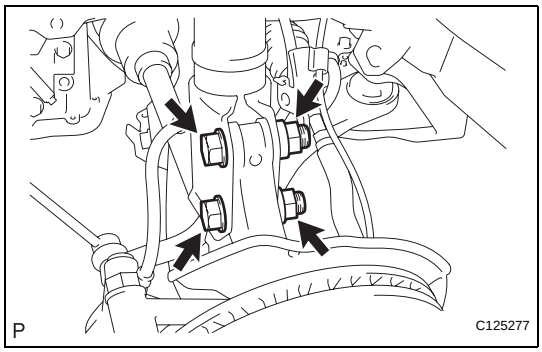

AH

# REMOVAL

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
2. **REMOVE FRONT WHEEL**
3. **REMOVE FRONT AXLE HUB NUT (See page DS-3)**
4. **SEPARATE FRONT SPEED SENSOR (w/ ABS) (See page DS-3)**
5. **SEPARATE FRONT DISC BRAKE CALIPER ASSEMBLY**
   (a) Remove the 2 bolts and separate the disc brake caliper from the steering knuckle.
   **NOTICE:**
   **Hang the caliper using a piece of string or the equivalent.**

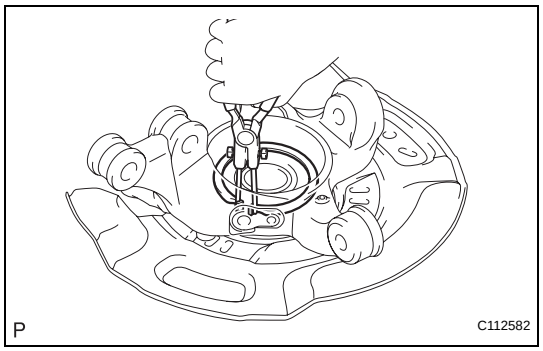



6. **REMOVE FRONT DISC (See page BR-50)**
7. **SEPARATE TIE ROD END SUB-ASSEMBLY (See page DS-3)**
8. **SEPARATE FRONT STABILIZER LINK ASSEMBLY (See page DS-4)**
9. **SEPARATE FRONT LOWER SUSPENSION ARM (See page DS-4)**
10. **SEPARATE FRONT AXLE ASSEMBLY**
    (a) Using a plastic hammer, tap the end of the drive shaft and disengage the fitting between the drive shaft and front axle.
    HINT:
    If it is difficult to disengage the fitting, tap the end of the drive shaft with a brass bar and hammer.
    (b) Push the front axle out of the vehicle to remove the drive shaft from the front axle.
    **NOTICE:**
    - **Do not push the front axle further out of the vehicle than is necessary.**
    - **Do not damage the outboard joint boot.**
    - **Do not damage the speed sensor rotor.**
    - **Suspend the drive shaft with a piece of string or the equivalent.**




    (c) Remove the 2 nuts and 2 bolts and remove the front axle assembly.
    HINT:
    Keep the nut from rotating while turning the bolt.

AH



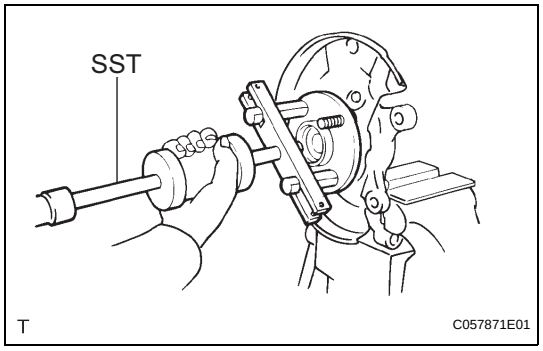

# DISASSEMBLY

**1. REMOVE FRONT AXLE HUB HOLE SNAP RING**

(a) Using snap ring pliers, remove the hole snap ring.

**NOTICE:**

**When removing the hole snap ring, do not damage the magnetic rotor surface.**




**2. REMOVE FRONT AXLE HUB SUB-ASSEMBLY**

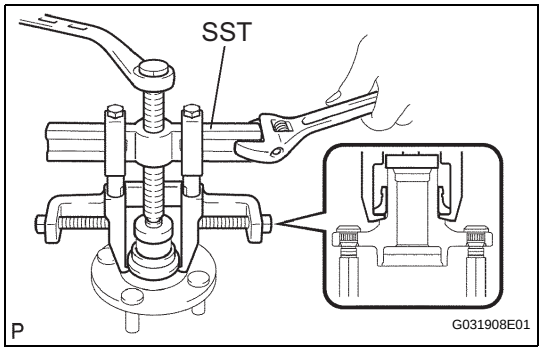
(a) Fix the steering knuckle in a vise between aluminum plates.

**NOTICE:**

**Do not overtighten the vise.**

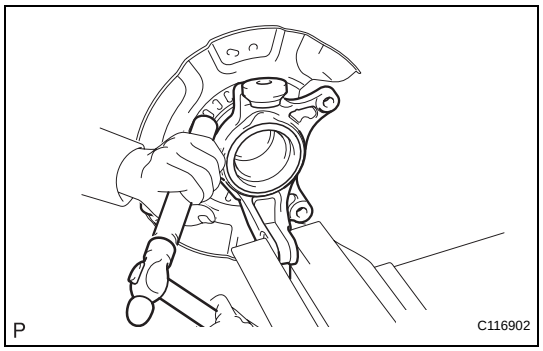
(b) Using SST, remove the axle hub.

**SST 09520-00031**



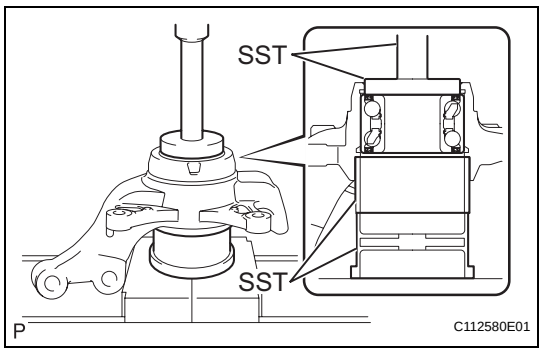

(c) Using SST, remove the hub bearing inner race from the axle hub.

**SST 09950-40011 (09951-04020, 09952-04010, 09953-04020, 09954-04010, 09955-04011, 09957-04010, 09958-04011), 09950-60010 (09951-00370)**




**3. REMOVE FRONT DISC BRAKE DUST COVER**

(a) Remove the dust cover by tapping the back side with a brass bar and hammer.



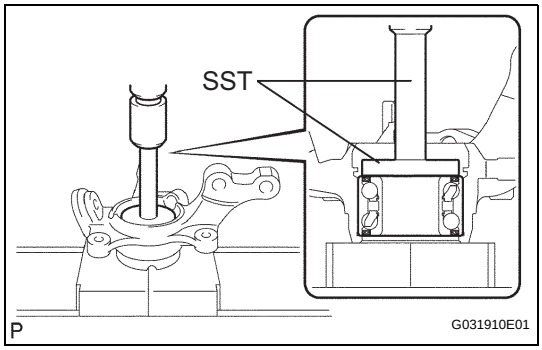

**4. REMOVE FRONT AXLE HUB BEARING**

(a) Install the removed hub bearing inner race onto the outer side of the hub bearing.

(b) Using SST and a press, remove the hub bearing from the steering knuckle.

**SST 09223-15020, 09387-00041 (09387-02010), 09950-60010 (09951-00630), 09950-70010 (09951-07100)**

AH




# REASSEMBLY

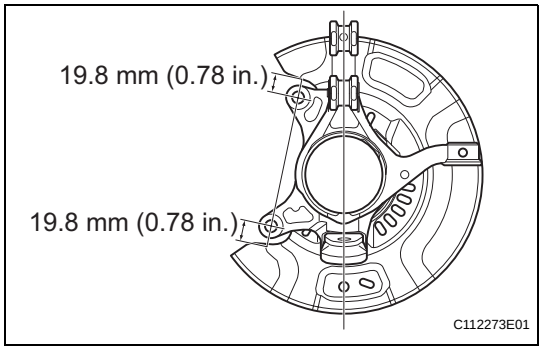
**1. INSTALL FRONT AXLE HUB BEARING**

(a) Using SST and a press, insert a new hub bearing, with its magnetic rotor side facing the inside of the vehicle, until it reaches the end of the steering knuckle.

**SST 09950-60020 (09951-00710), 09950-70010 (09951-07100)**

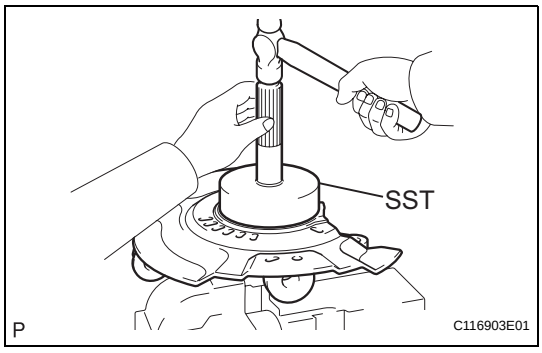
**NOTICE:**

- **Do not remove the inner race because the hub bearing is built into the oil seal.**
- **Do not use bearings that have been removed.**
- **Do not wipe off any grease that has been applied to new bearings.**
- **Do not bring magnets close to the magnetic rotor surface of the bearing.**
- **Keep the magnetic rotor surface of the bearing free of foreign matter.**




**2. INSTALL FRONT DISC BRAKE DUST COVER**

(a) Provisionally install a new disc brake dust cover, as shown in the illustration.

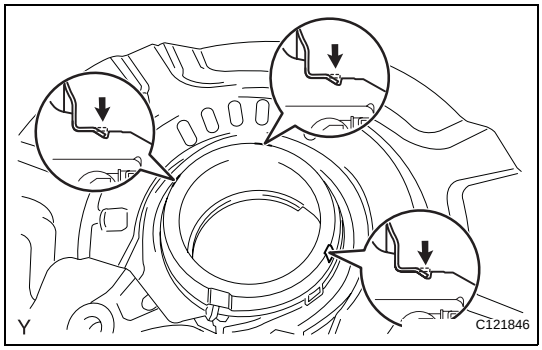



(b) Using SST and a hammer, install the disc brake dust cover.

**SST 09223-56010**

**NOTICE:**

- **Uniformly press in the disc brake dust cover while sliding SST slightly.**
- **Surely press in the disc brake dust cover until the pressing-in base.**

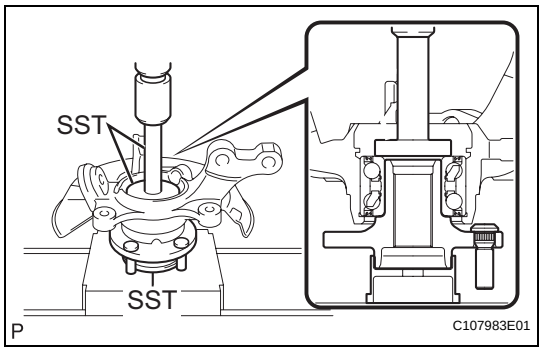



(c) Using a chisel, fix the 3 points on the circumference.

**NOTICE:**

**Securely fold each end into the engagement grooves.**

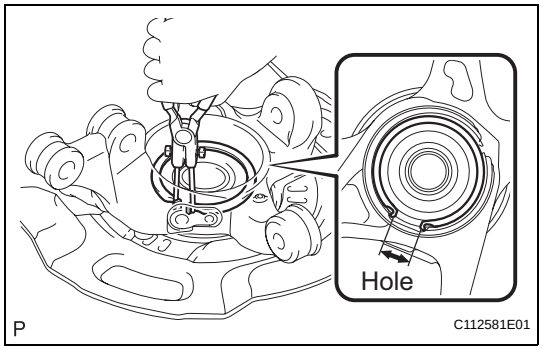
AH




**3. INSTALL FRONT AXLE HUB SUB-ASSEMBLY**

(a) Using SST and a press, press the axle hub into the steering knuckle.

**SST 09608-32010, 09950-60010 (09951-00500), 09950-70010 (09951-07100)**

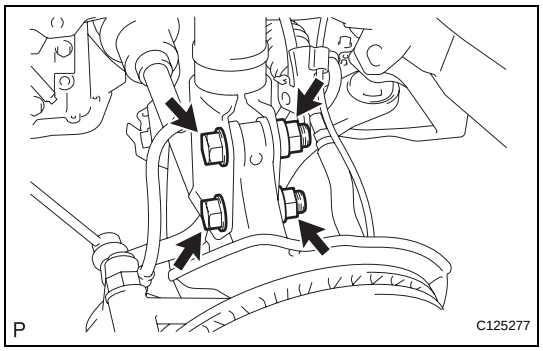



**4. INSTALL FRONT AXLE HUB HOLE SNAP RING**

(a) Using snap ring pliers, install a new hole snap ring, as shown in the illustration.

**NOTICE:**

- **Do not overlap the end of the snap ring and the installation hole in the speed sensor on the knuckle side.**
- **Do not damage the magnetic rotor surface of the bearing when installing the snap ring.**




# INSTALLATION

**1. INSTALL FRONT AXLE ASSEMBLY**

(a) Install the front axle assembly onto the shock absorber.

(b) Install the 2 bolts and 2 nuts.

**Torque: 164 N*m (1,672 kgf*cm, 121 ft.*lbf)**

HINT:

Keep the nut from rotating while turning the bolt.

(c) Push the front axle out of the vehicle to align the spline of the drive shaft with the front axle and insert the front axle.

**NOTICE:**

- **Do not push the front axle further out of the vehicle than is necessary.**
- **Do not damage the outboard joint boot.**
- **Check for any foreign matter on the speed sensor rotor and insertion part.**
- **Do not damage the speed sensor rotor.**

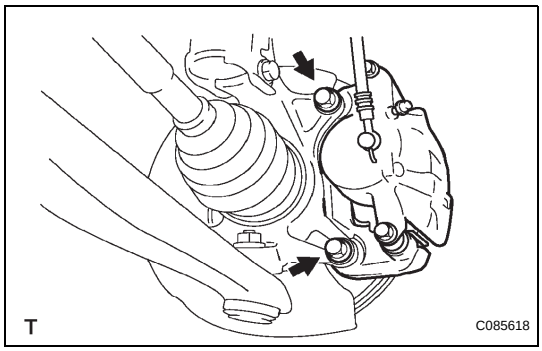
**2. INSTALL FRONT LOWER SUSPENSION ARM (See page DS-14)**

**3. INSTALL FRONT STABILIZER LINK ASSEMBLY (See page DS-14)**

**4. INSTALL TIE ROD END SUB-ASSEMBLY (See page DS-15)**

**5. INSTALL FRONT DISC (See page BR-52)**

AH




6. **INSTALL FRONT DISC BRAKE CALIPER ASSEMBLY**
   (a) Install the disc brake caliper onto the steering knuckle.
   **Torque: 107 N*m (1,089 kgf*cm, 79 ft.*lbf)**
7. **INSTALL FRONT SPEED SENSOR (w/ ABS) (See page DS-15)**
8. **INSTALL FRONT AXLE HUB NUT (See page DS-15)**
9. **INSPECT FRONT AXLE HUB BEARING (See page AH-1)**
10. **INSTALL FRONT WHEEL**
    **Torque: 103 N*m (1,050 kgf*cm, 76 ft.*lbf)**
11. **INSPECT AND ADJUST FRONT WHEEL ALIGNMENT** (See page SP-2)
12. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
    **Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)**
13. **CHECK ABS SENSOR SIGNAL (w/ ABS)** (See page BC-14)