

Last Modified: 7-13-2007		1.6 A
Service Category: Drivetrain	Section: Axle/Differential	
Model Year: 2008	Model: ES350	Doc ID: RM000001IWZ001X
Title: AXLE: FRONT AXLE HUB: REMOVAL (2008 ES350)		

## REMOVAL

### HINT:

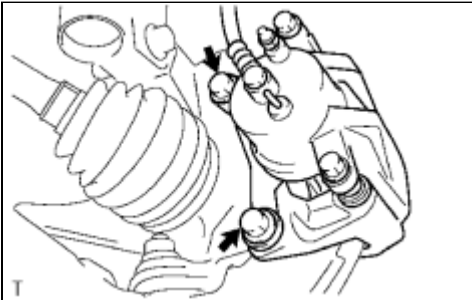
- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.

#### 1. REMOVE FRONT WHEEL

#### 2. REMOVE FRONT AXLE HUB NUT INFO

#### 3. SEPARATE FRONT SPEED SENSOR INFO

#### 4. SEPARATE FRONT DISC BRAKE CALIPER ASSEMBLY



- (a) Remove the 2 bolts and separate the front disc brake caliper assembly from the steering knuckle.

#### NOTICE:

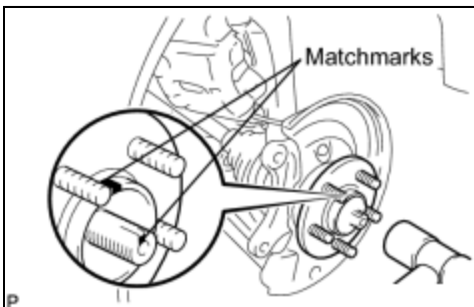
Use wire or an equivalent tool to keep the brake caliper from hanging by its flexible hose.

#### 5. REMOVE FRONT DISC INFO

#### 6. SEPARATE TIE ROD END SUB-ASSEMBLY INFO

#### 7. SEPARATE FRONT SUSPENSION LOWER NO. 1 ARM INFO

#### 8. REMOVE FRONT AXLE ASSEMBLY

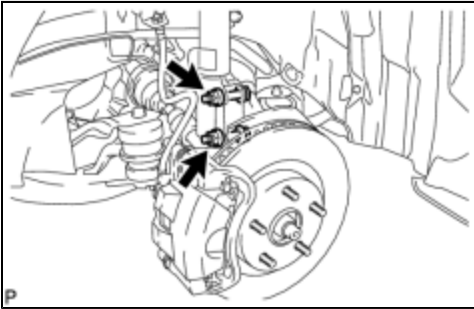


- (a) Put matchmarks on the front drive shaft assembly and the front axle hub sub-assembly.

- (b) Using a plastic hammer, separate the front drive shaft assembly from the front axle assembly.

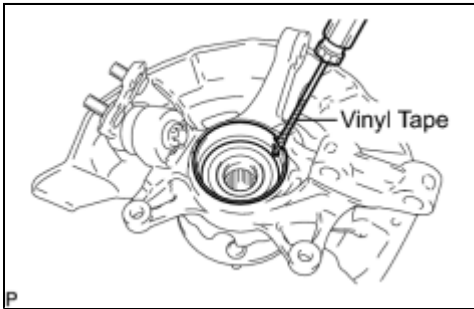
**NOTICE:**

Be careful not to damage the drive shaft boot or speed sensor rotor.



(c) Remove the 2 bolts, 2 nuts, and front axle assembly.

**9. REMOVE NO. 1 FRONT WHEEL BEARING DUST DEFLECTOR**

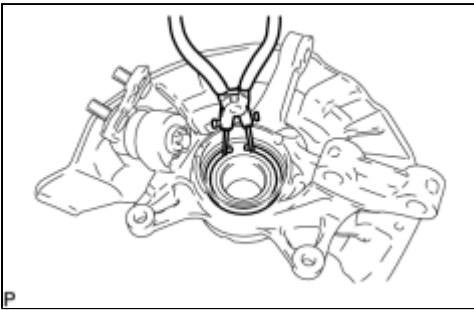


(a) Using a screwdriver with its tip wrapped with vinyl tape, remove the No. 1 front wheel bearing dust deflector.

**NOTICE:**

Be careful not to damage the steering knuckle.

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



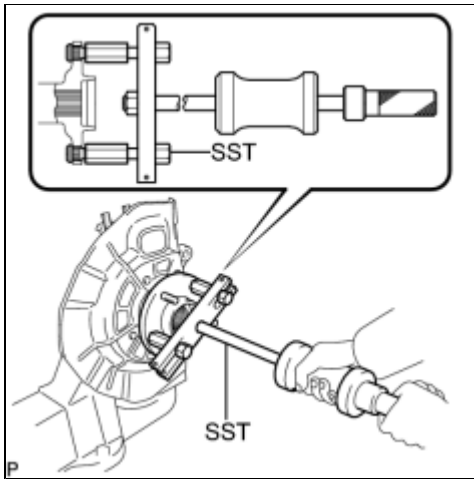
(a) Using snap ring pliers, remove the front axle hub hole snap ring.

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

(a) Hold the front axle assembly between aluminium plates in a vise.

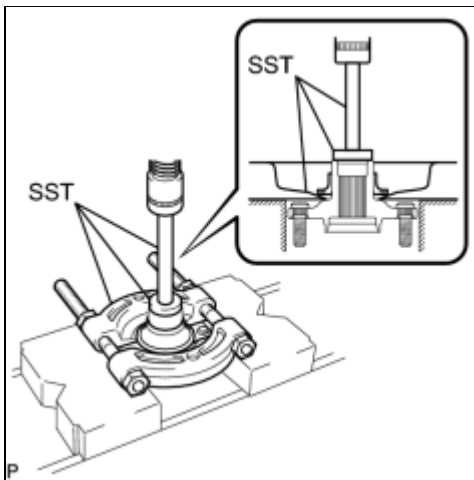
**NOTICE:**

Do not overtighten the vise.



(b) Using SST, remove the front axle hub sub-assembly.

**SST: 09520-00031**



(c) Using SST and a press, remove the bearing inner race (outside) from the front axle hub sub-assembly.

**SST: 09555-55010**

**SST: 09950-60010**

*09951-00430*

**SST: 09950-70010**

*09951-07100*

**NOTICE:**

**Be careful not to drop the front axle hub sub-assembly.**

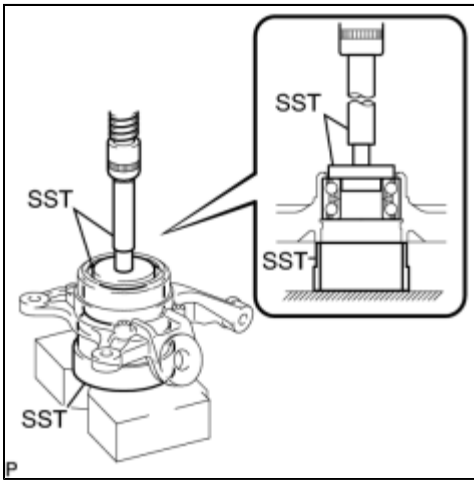
**12. REMOVE FRONT DISC BRAKE DUST COVER**

(a) Remove the 4 bolts and disc brake dust cover from the steering knuckle.

**13. REMOVE FRONT LOWER BALL JOINT ASSEMBLY** INFO

**14. REMOVE FRONT AXLE HUB BEARING**

(a) Place the bearing inner race (outside) on the front axle hub bearing.



(b) Using SST and a press, press the front axle hub bearing until it contacts the SST.

**SST: 09527-17011**

**SST: 09950-60010**

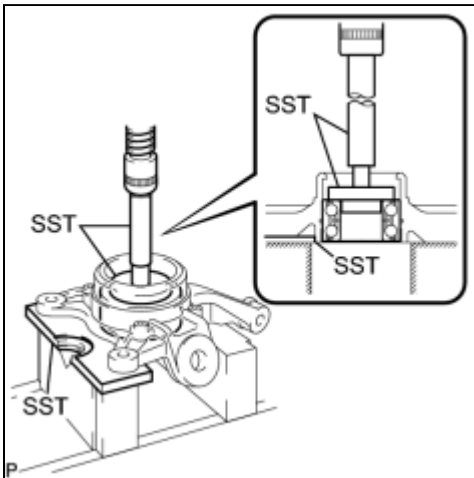
09951-00600

09951-00400

09952-06010

**SST: 09950-70010**

09951-07100



(c) Using SST, support the steering knuckle horizontally. Place it on the V-blocks as shown in the illustration.

**SST: 09527-20011**

**SST: 09950-60010**

09951-00600

09951-00400

09952-06010

**SST: 09950-70010**

09951-07100

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

