

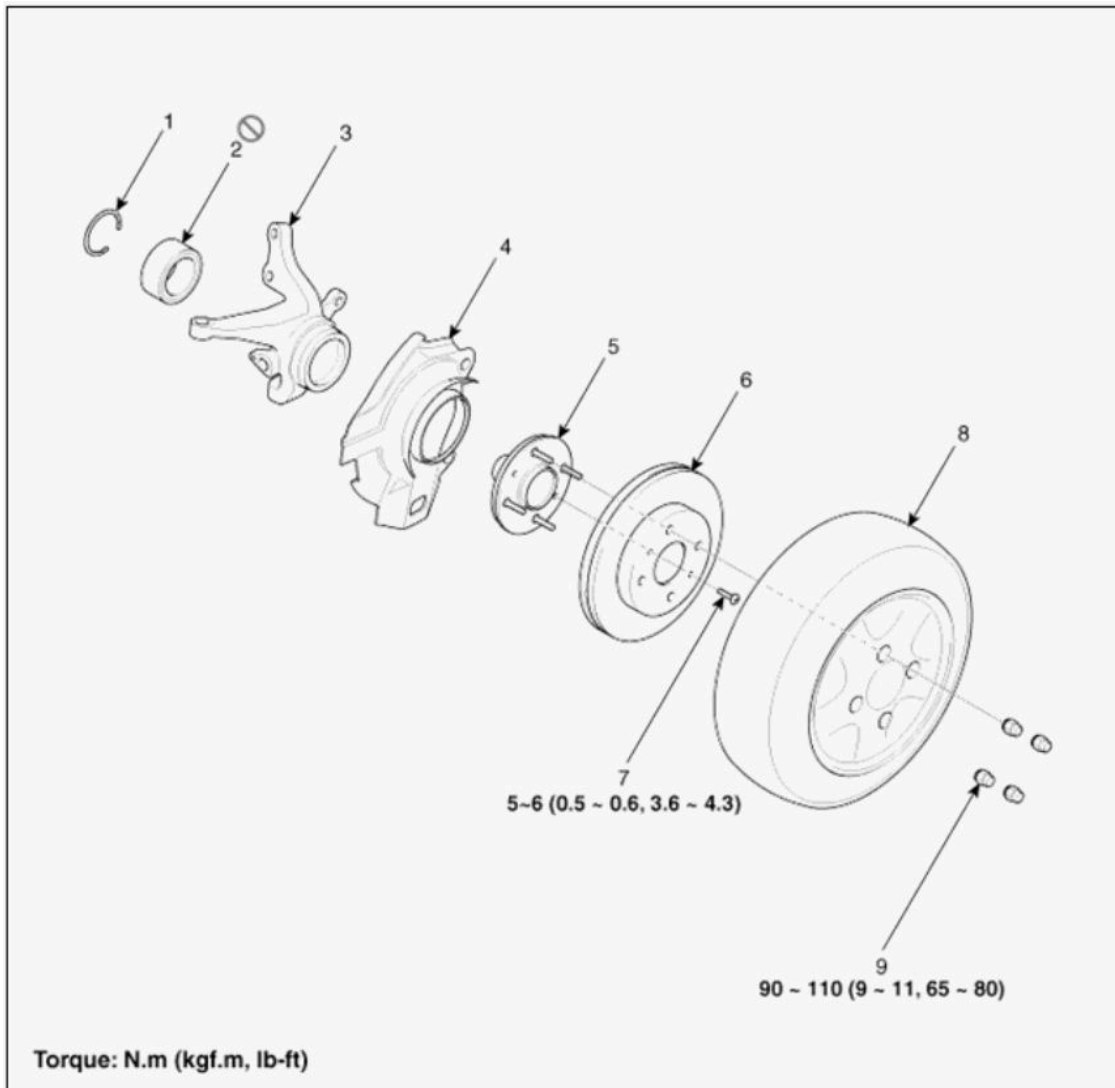
## 2014 DRIVELINE/AXLES

### Front Axle Assembly - Accent

## FRONT HUB/KNUCKLE

### COMPONENTS AND COMPONENTS LOCATION

#### Components



**Fig. 1: Identifying Front Hub / Knuckle Components With Torque Specifications**  
Courtesy of HYUNDAI MOTOR AMERICA

- 1. Snap ring
- 2. Bearing

- 6. Wheel brake disc
- 7. Brake disc fixing screw

## 2014 Hyundai Accent GS

### 2014 DRIVELINE/AXLES Front Axle Assembly - Accent

|                          |                 |
|--------------------------|-----------------|
| 3. Axle assembly         | 8. Wheel / Tire |
| 4. Brake disc dust cover | 9. Wheel nut    |
| 5. Wheel hub assembly    |                 |

## REPAIR PROCEDURES

### Replacement

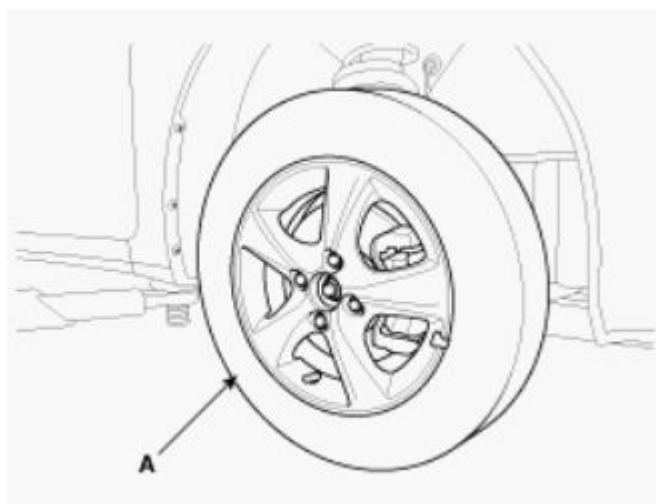
1. Loosen the wheel nuts slightly.

Raise the vehicle, and make sure it is securely supported.

2. Remove the front wheel and tire (A) from front hub.

#### Tightening torque:

88.2 ~ 107.8 N.m (9.0 ~ 11.0 kgf.m, 65.0 ~ 79.5 lb-ft)



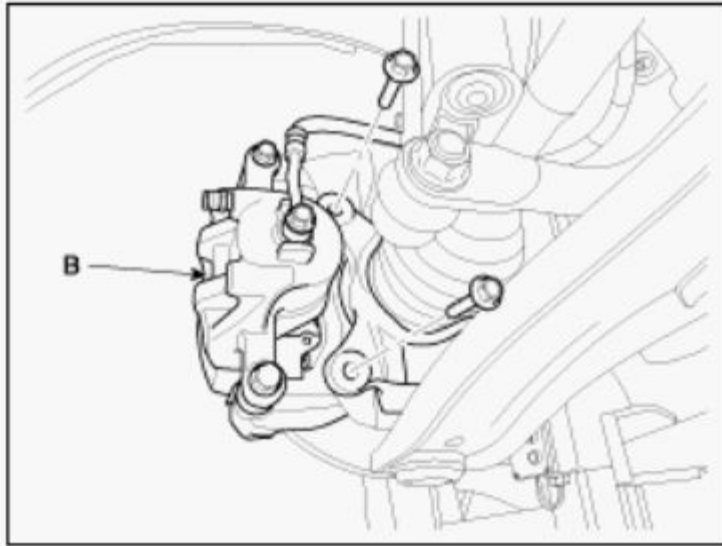
**Fig. 2: Identifying Front Wheel And Tire**  
Courtesy of HYUNDAI MOTOR AMERICA

**CAUTION:** Be careful not to damage to the hub bolts when removing the front wheel and tire (A).

3. Remove the brake caliper mounting bolts, and then hold the brake caliper assembly (B) with wire.

#### Tightening torque:

78.4 ~ 98.0 N.m (8.0 ~ 10.0 kgf.m, 57.8 ~ 72.3 lb-ft)

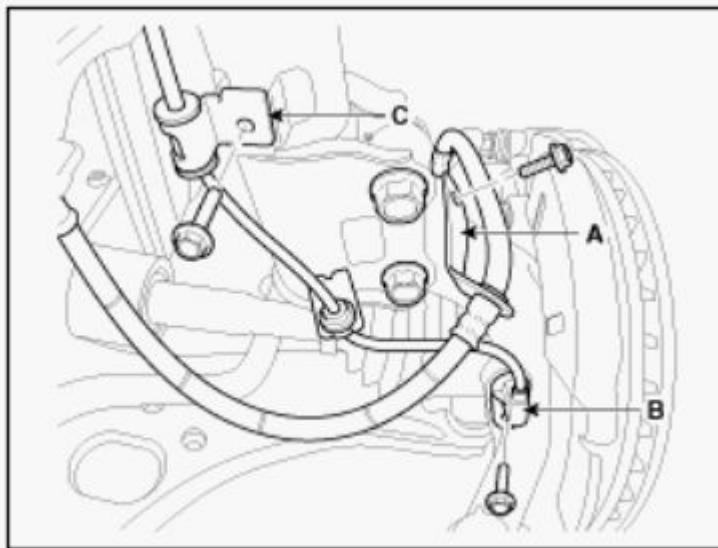


**Fig. 3: Identifying Brake Caliper Assembly And Mounting Bolts**  
Courtesy of HYUNDAI MOTOR AMERICA

4. Remove the brake hose mounting bracket (A) & wheel speed sensor (B) & bracket (C).

**Tightening torque (B, C):**

7.8 ~ 11.8 N.m (0.8 ~ 1.2 kgf.m, 5.8 ~ 8.7 lb-ft)

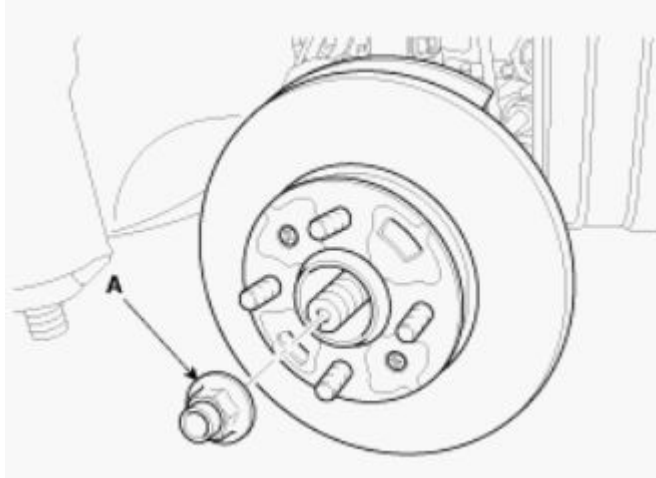


**Fig. 4: Identifying Brake Hose, Mounting Bracket, Wheel Speed Sensor And Bracket**  
Courtesy of HYUNDAI MOTOR AMERICA

5. Remove driveshaft nut (A) from the front hub under applying the brake.

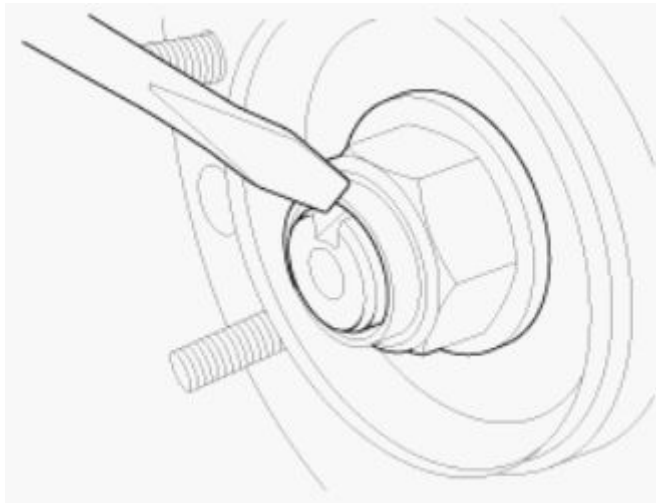
**Tightening torque:**

196.1 ~ 274.5 N.m (20.0 ~ 28.0 kgf.m, 144.6 ~ 202.5 lb-ft)



**Fig. 5: Identifying Driveshaft Nut**  
Courtesy of HYUNDAI MOTOR AMERICA

- CAUTION:**
- The driveshaft lock nut should be replaced with new ones.
  - After installation driveshaft lock nut, stake the lock nut using a chisel and hammer as shown in the illustration below.

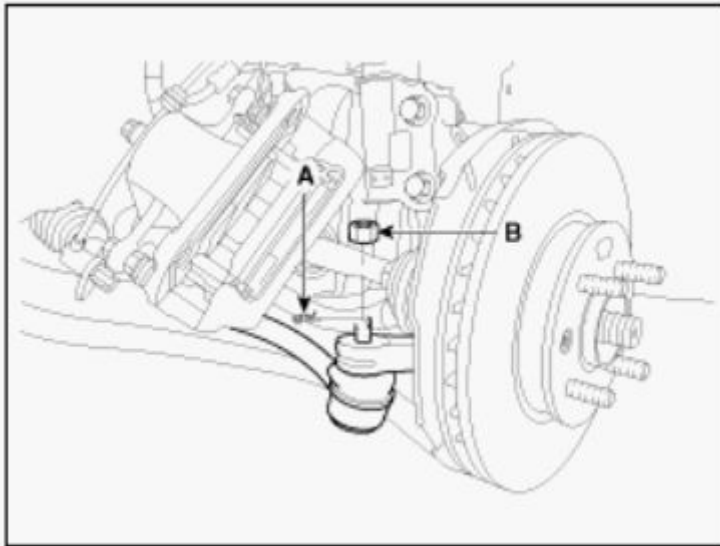


**Fig. 6: Staking Driveshaft Lock Nut**  
Courtesy of HYUNDAI MOTOR AMERICA

6. Remove the tie rod end ball joint from the knuckle.
  1. Remove the split pin (A).
  2. Remove the castle nut (B).

**Tightening torque:**

23.5 ~ 33.3 N.m (2.4 ~ 3.4 kgf.m, 19.4 ~ 24.5 lb-ft)

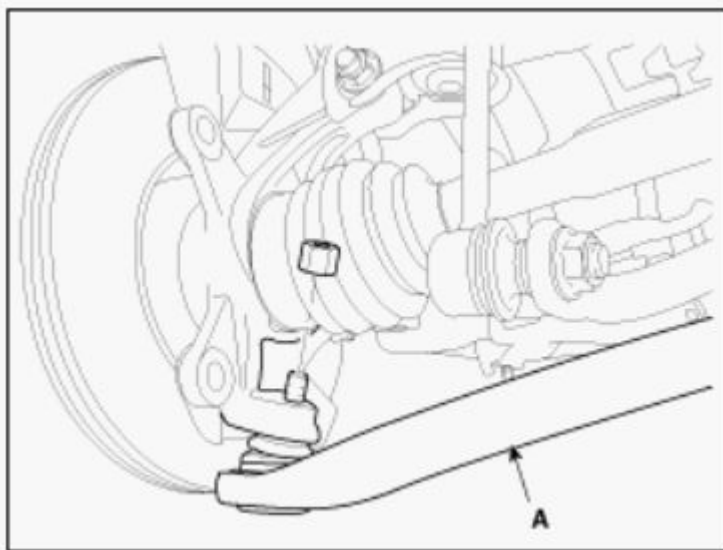


**Fig. 7: Identifying Split Pin And Castle Nut**  
Courtesy of HYUNDAI MOTOR AMERICA

7. Remove the lower arm (A) from the knuckle.

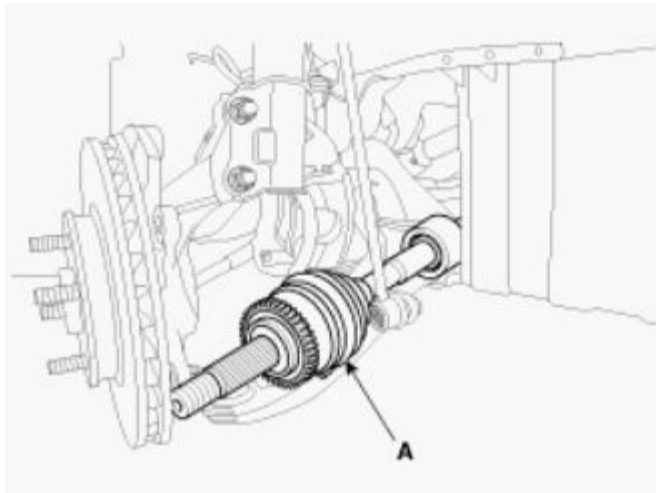
**Tightening torque:**

196.1 ~ 274.5 N.m (6.0 ~ 7.2 kgf.m, 144.6 ~ 202.5 lb-ft)



**Fig. 8: Identifying Knuckle Lower Arm**  
Courtesy of HYUNDAI MOTOR AMERICA

8. Disconnect the driveshaft (A) from the front hub assembly.

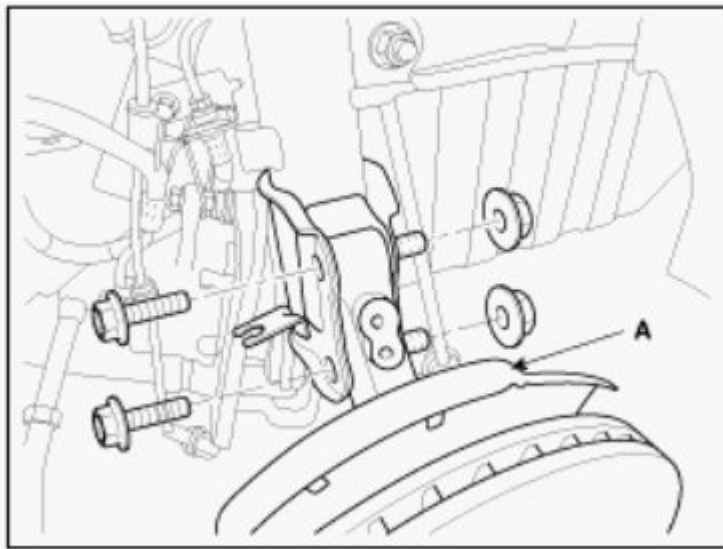


**Fig. 9: Identifying Front Hub Assembly Driveshaft**  
Courtesy of HYUNDAI MOTOR AMERICA

9. Loosen the strut mounting bolts and then remove the knuckle assembly (A).

**Tightening torque:**

137.3 ~ 156.9 N.m (14.0 ~ 16.0 kgf.m, 101.3 ~ 115.7 lb-ft)

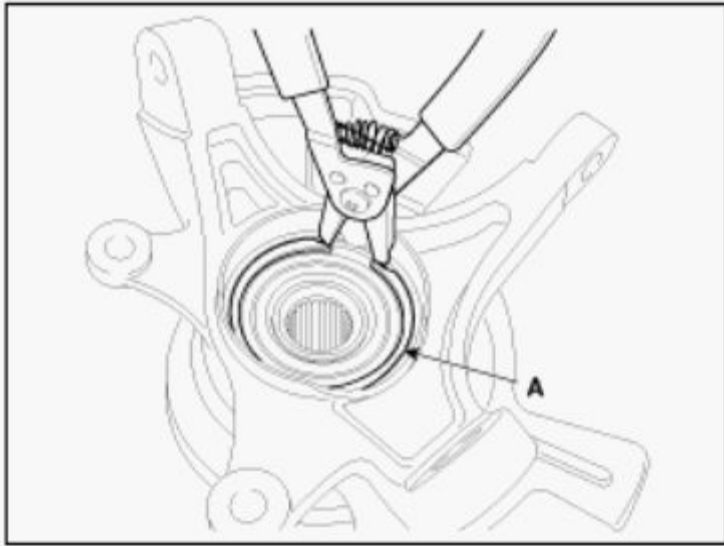


**Fig. 10: Identifying Knuckle Assembly And Strut Mounting Bolts**  
Courtesy of HYUNDAI MOTOR AMERICA

10. Install in the reverse order of removal.

**Disassembly**

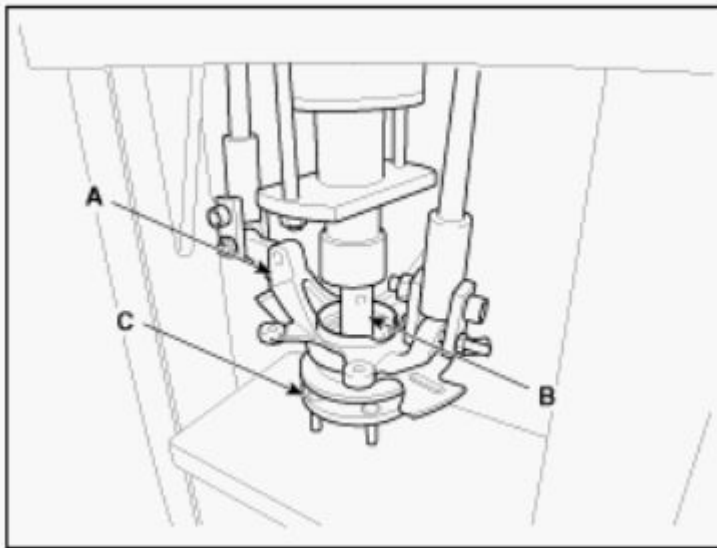
1. Remove the snap ring (A).



**Fig. 11: Removing Snap Ring**

Courtesy of HYUNDAI MOTOR AMERICA

2. Remove the hub assembly from the knuckle assembly.
  1. Install the front knuckle assembly (A) on press.
  2. Lay a suitable adapter (B) upon the hub assembly shaft.
  3. Remove the hub assembly (C) from the knuckle assembly (A) by using press.

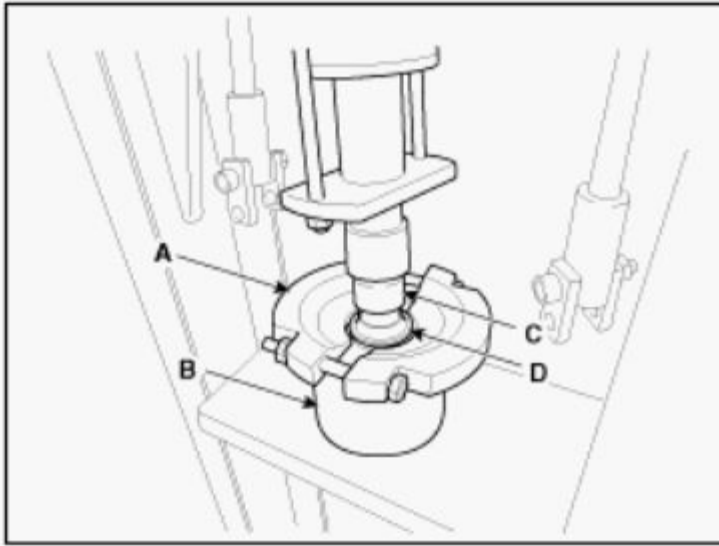


**Fig. 12: Identifying Hub Assembly, Knuckle Assembly And Adapter**

Courtesy of HYUNDAI MOTOR AMERICA

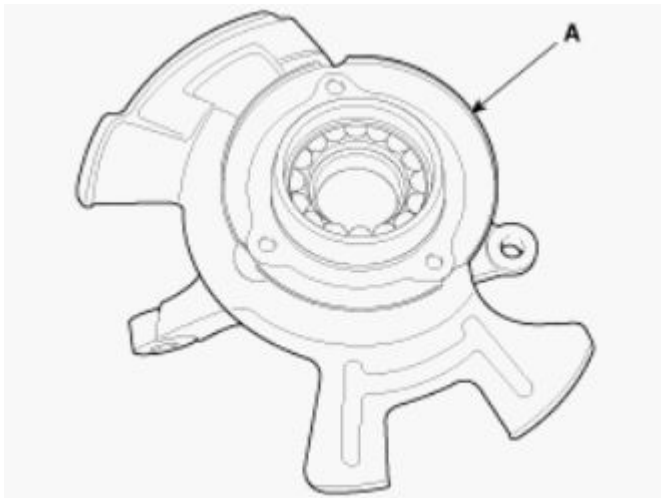
3. Remove the hub bearing inner race from the hub assembly.
  1. Install a suitable tool (A) for removing the hub bearing inner race on the hub assembly.
  2. Lay the hub assembly and tool (A) upon a suitable adapter (B).

3. Lay a suitable adapter (C) upon the hub assembly shaft.
4. Remove the hub bearing inner race (D) from the hub assembly by using press.



**Fig. 13: Removing Hub Bearing Inner Race**  
Courtesy of HYUNDAI MOTOR AMERICA

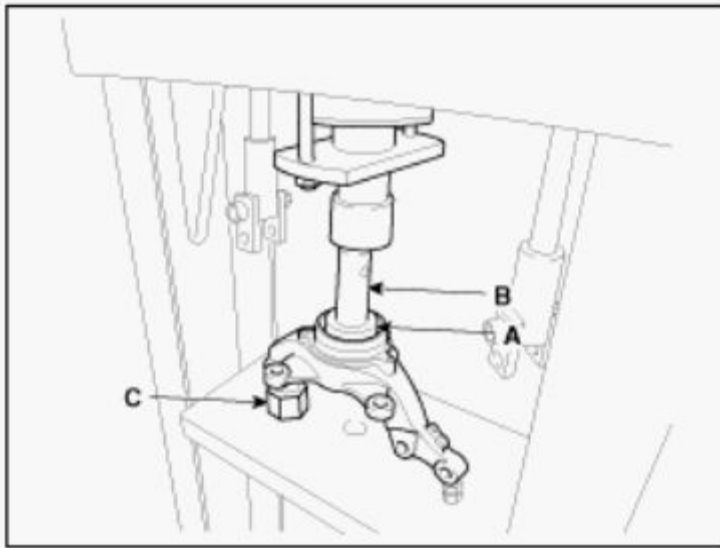
4. Remove the dust cover (A).



**Fig. 14: Identifying Dust Cover**  
Courtesy of HYUNDAI MOTOR AMERICA

5. Remove the hub bearing outer race from the knuckle assembly.
  1. Lay the hub assembly (A) upon a suitable adapter (B).
  2. Lay a suitable adapter (C) upon the hub bearing outer race.
  3. Remove the hub bearing outer race from the knuckle assembly by using press.



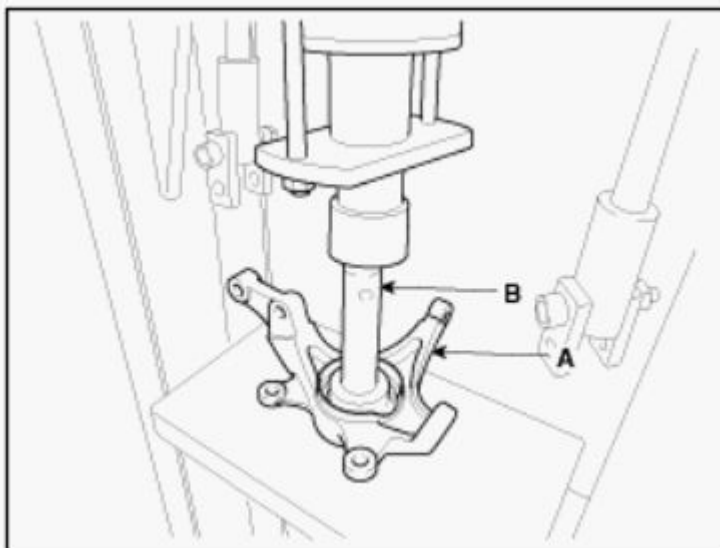


**Fig. 15: Removing Hub Bearing Outer Race From Knuckle Assembly**  
Courtesy of HYUNDAI MOTOR AMERICA

6. Replace hub bearing with a new one.

**Reassembly**

1. Install the hub bearing to the knuckle assembly.
  1. Lay the knuckle assembly (A) on press.
  2. Lay a new hub bearing upon the knuckle assembly (A).
  3. Lay a suitable adapter (B) upon the hub bearing.
  4. Install the hub bearing to the knuckle assembly by using press.

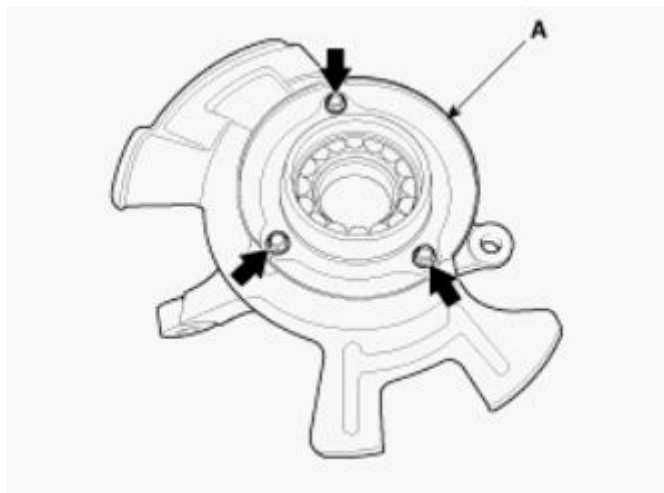


**Fig. 16: Installing Hub Bearing To Knuckle Assembly**  
Courtesy of HYUNDAI MOTOR AMERICA

**CAUTION:**

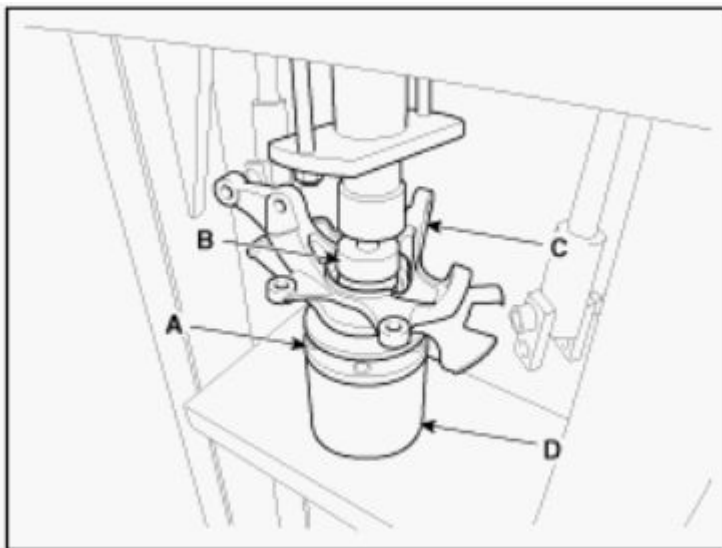
- Do not press against the inner race of the hub bearing because that can cause damage to the bearing assembly.
- Always use a new wheel bearing assembly.

2. Install the dust cover (A).



**Fig. 17: Locating Dust Cover Mounting Bolts**  
Courtesy of HYUNDAI MOTOR AMERICA

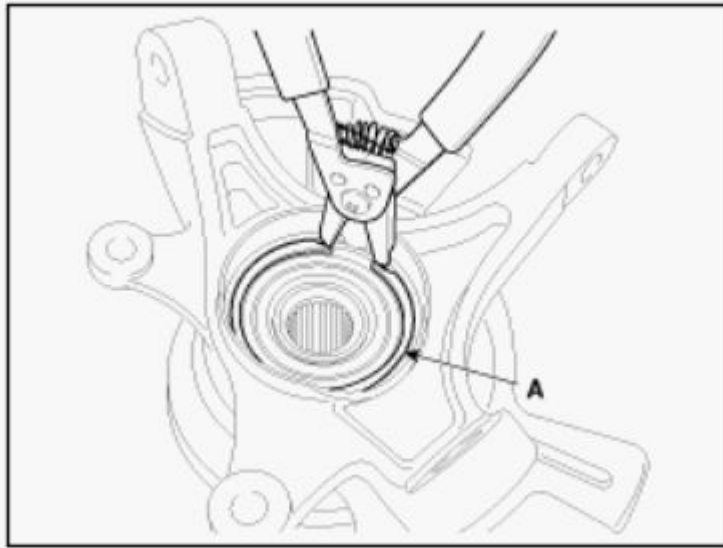
3. Install the hub assembly to the knuckle assembly.
  1. Lay the hub assembly (A) upon a suitable adapter (B).
  2. Lay the knuckle assembly (C) upon the hub assembly (A).
  3. Lay a suitable adapter (D) upon the hub bearing.
  4. Install the hub assembly (A) to the knuckle assembly (C) by using press.



**Fig. 18: Installing Hub Assembly To Knuckle Assembly Using Press**  
Courtesy of HYUNDAI MOTOR AMERICA

**CAUTION:** Do not press against the inner race of the hub bearing because that can cause damage to the bearing assembly.

4. Install the snap ring (A).



**Fig. 19: Installing Snap Ring Using Special Tool**  
Courtesy of HYUNDAI MOTOR AMERICA

#### **Inspection**

1. Check the hub for cracks and the splines for wear.
2. Check the brake disc for scoring and damage.
3. Check the knuckle for cracks.
4. Check the bearing for cracks or damage.