

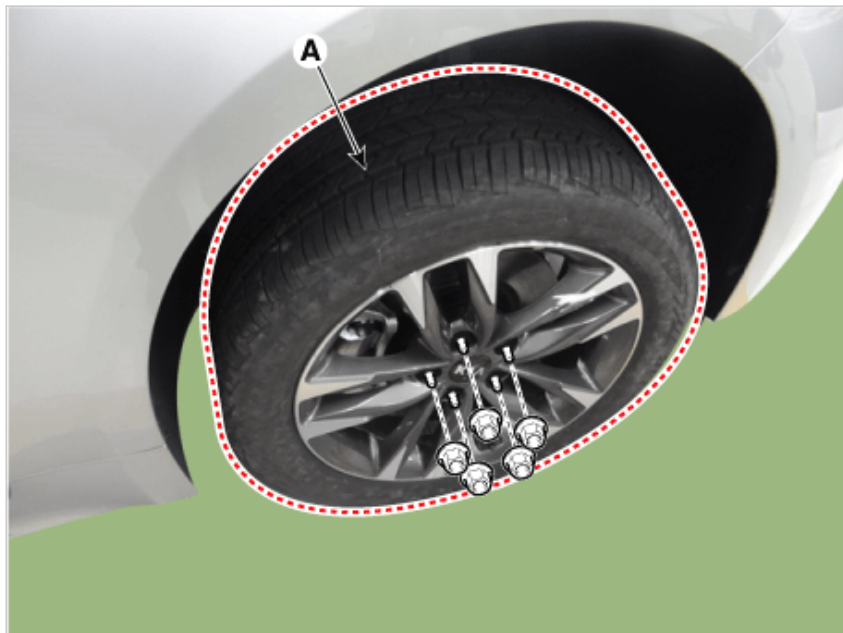


## Removal

1. Remove wheel nuts, wheel and tire (A) from front hub.

**Tightening torque:**

107.9 - 127.5 N·m (11.0 - 13.0 kgf·m, 79.6 - 94.0 lb·ft)

**NOTICE**

Be careful not to damage the hub bolts when removing the wheel and tire.

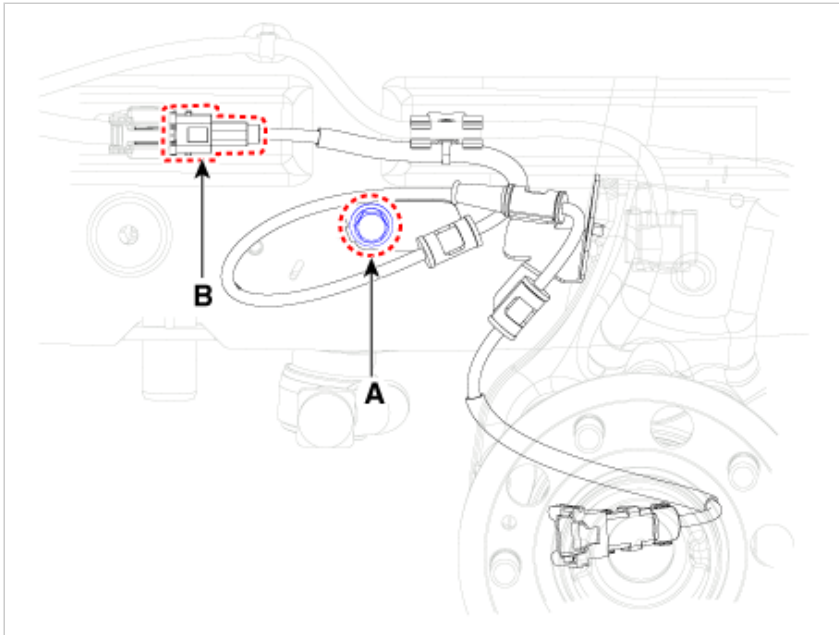
2. Disconnect the front wheel speed sensor connector from the front axle.



3. Loosen the wheel speed sensor bracket bolt (A), and then disconnect the wheel speed sensor connector (B).

**Tightening torque :**

16.7 - 25.5 N·m (2.0 - 3.0 kgf·m, 12.3 - 18.8 lb·ft)



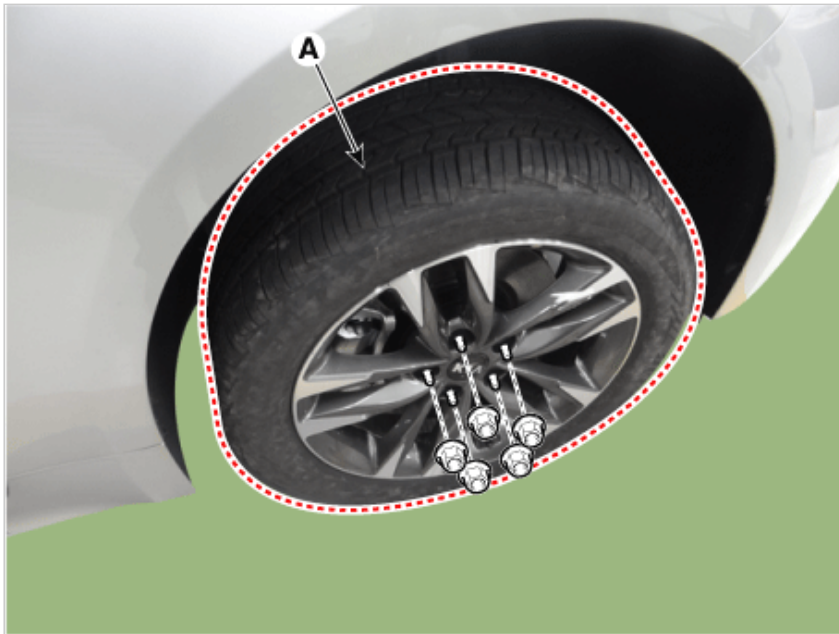
4. Install in the reverse order of removal.

**[AWD]**

1. Remove wheel nuts, wheel and tire (A) from front hub.

**Tightening torque:**

107.9 - 127.5 N·m (11.0 - 13.0 kgf·m, 79.6 - 94.0 lb·ft)



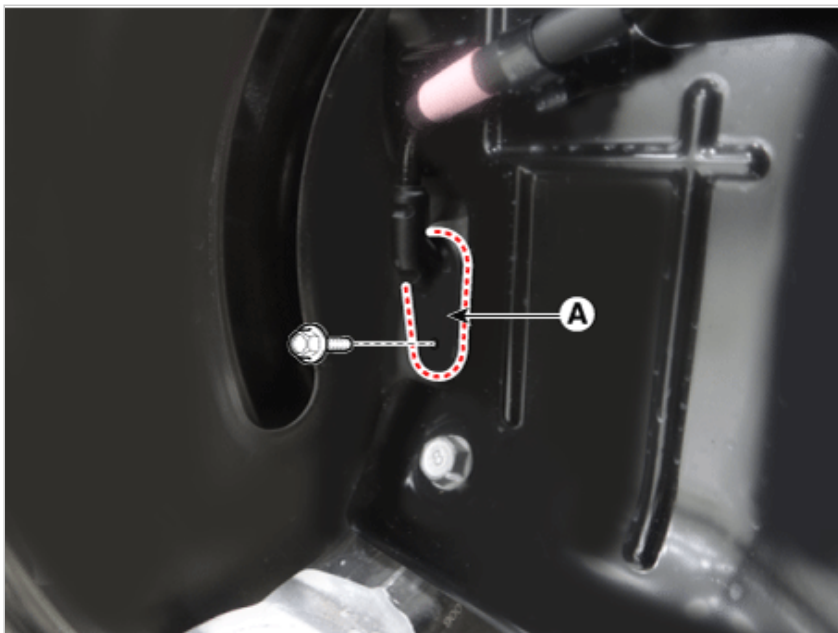
**NOTICE**

Be careful not to damage the hub bolts when removing the wheel and tire.

2. Loosen the wheel speed sensor bolt and then remove the wheel speed sensor (A).

**Tightening torque:**

6.9 - 10.8 N·m (0.7 - 1.1 kgf·m, 5.1 - 7.6 lb·ft)



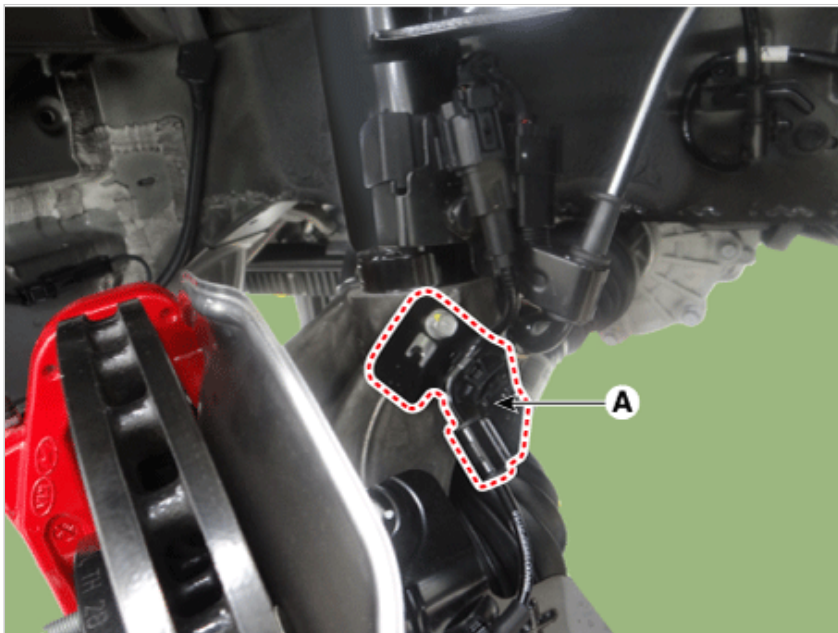
3. Remove the wheel speed sensor bracket.

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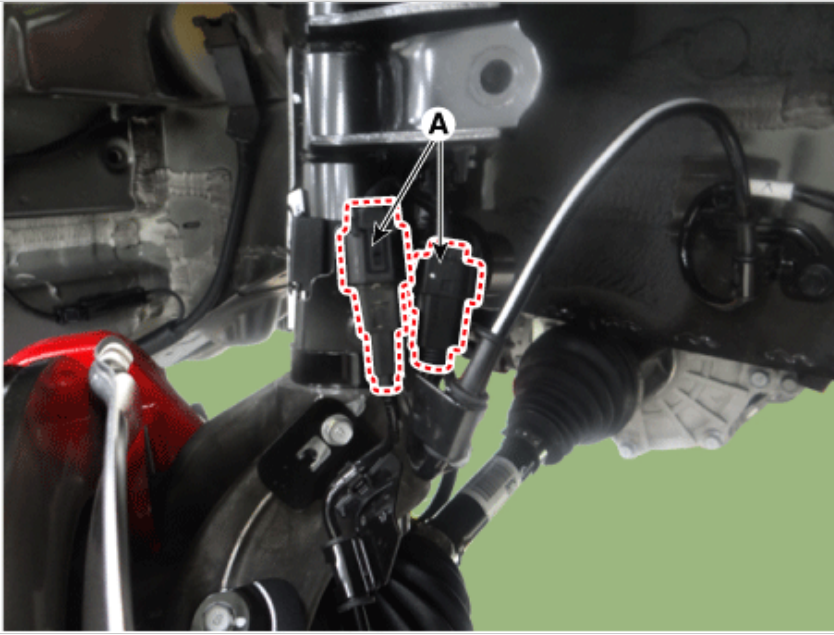
**Tightening torque:**

6.9 - 10.8 N·m (0.7 - 1.1 kgf·m, 5.1 - 7.6 lb·ft)

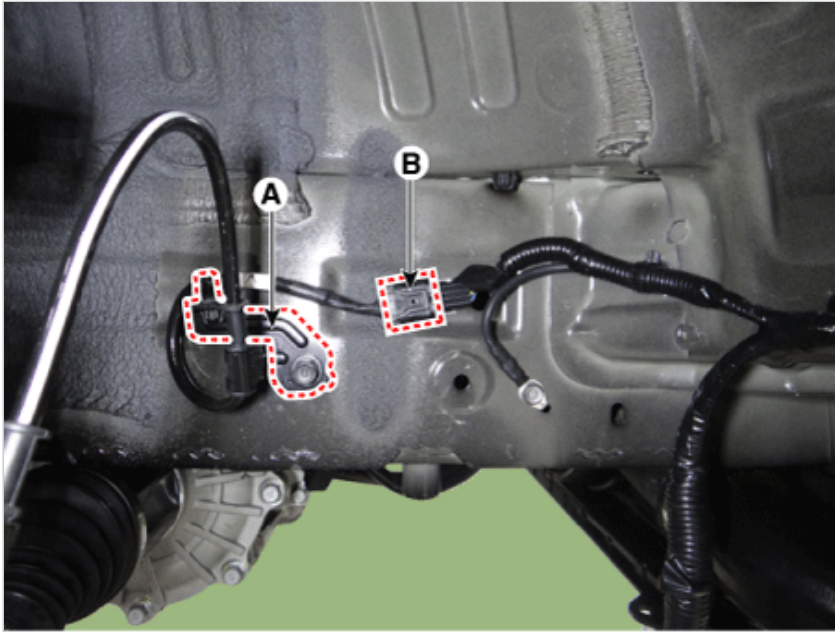
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4. Disconnect the ECS connector (A) and then remove the bracket.



5. Remove the bracket (A) and the remove the connector (B).



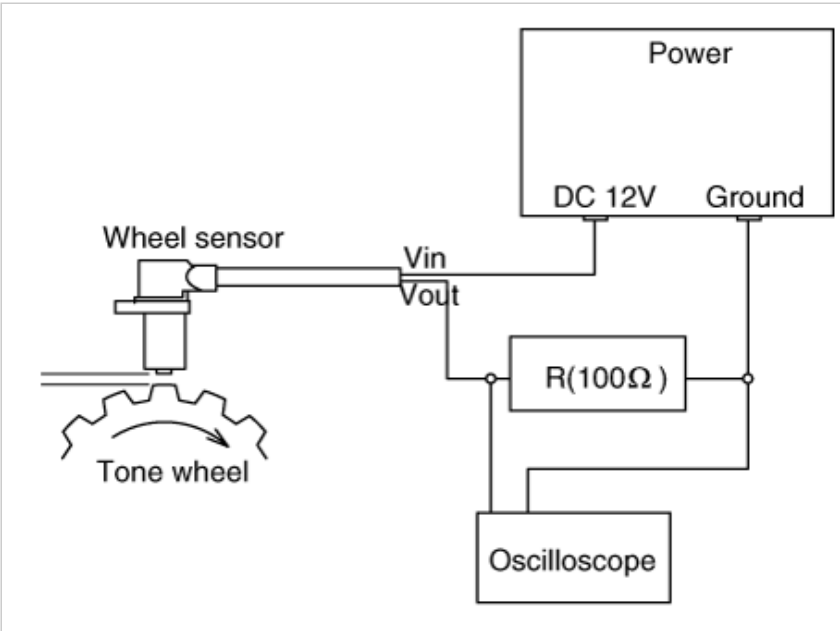
6. Install in the reverse order of removal.

### Inspection

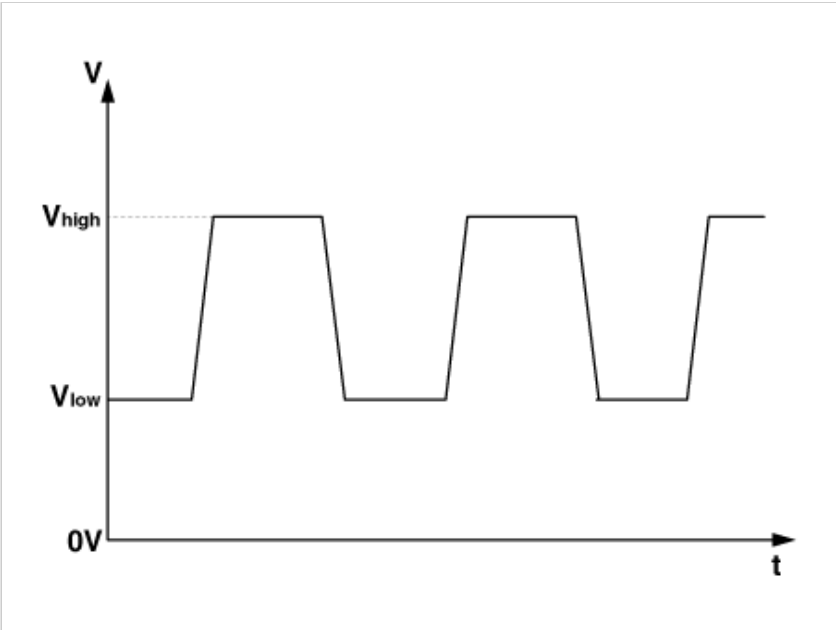
1. Measure the output voltage between the terminal of the wheel speed sensor and the body ground.

#### NOTICE

- In order to protect the wheel speed sensor, when measuring output voltage, a 100  $\Omega$  resistor must be used as shown.



2. Compare the change of the output voltage of the wheel speed sensor to the normal change of the output voltage as shown below.



$V_{low}$  : 0.59V - 0.84V  
 $V_{high}$  : 1.18V - 1.68V  
Frequency range : 1 - 2,500Hz