

Removal

1. Loosen the wheel nuts slightly.
Raise the vehicle, and make sure it is securely supported.
2. Remove the rear wheel and tire (A) from the rear hub.

Tightening torque :

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

NOTICE

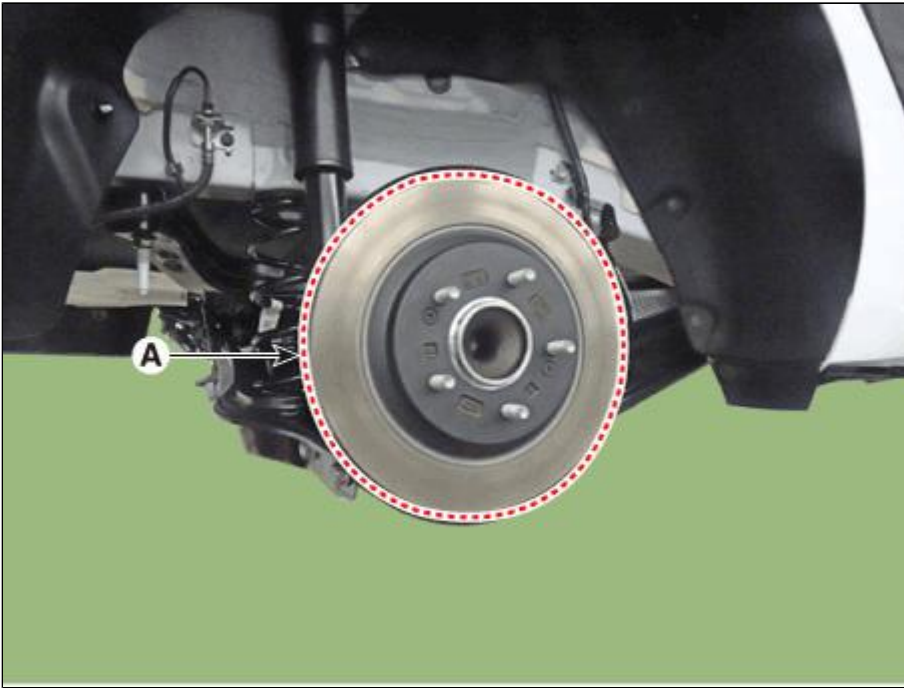
Be careful not to damage the hub bolts when removing the rear wheel and tire (A).



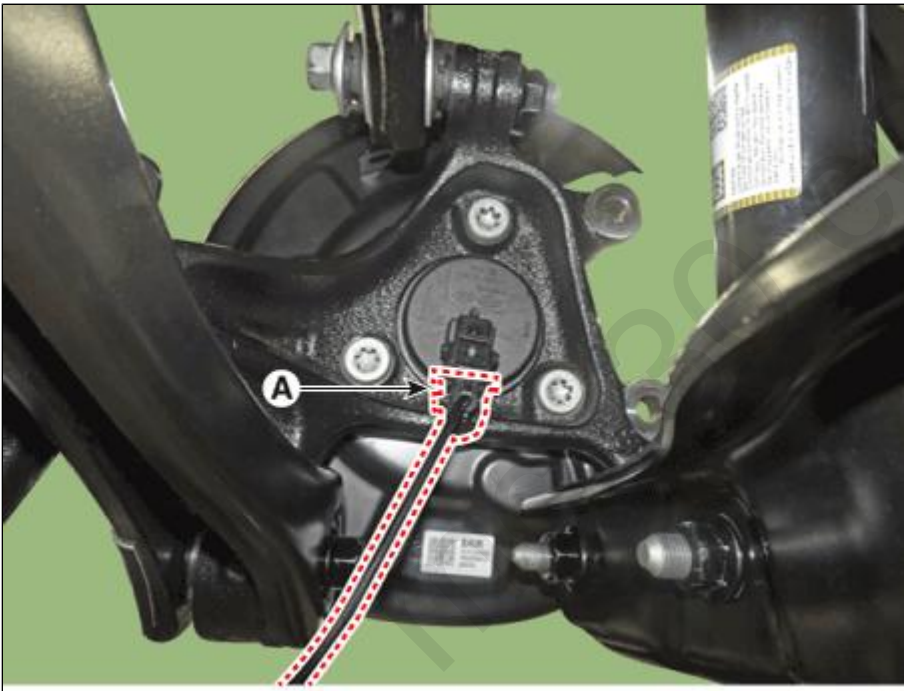
3. Remove the rear brake caliper.
(Refer to Brake System - "Rear Disc Brake")
4. Loosen the screw and the remove the rear break disc.

Tightening torque :

4.9 - 5.9 N.m (0.5 - 0.6 kgf.m, 3.6 - 4.3 lb-ft)



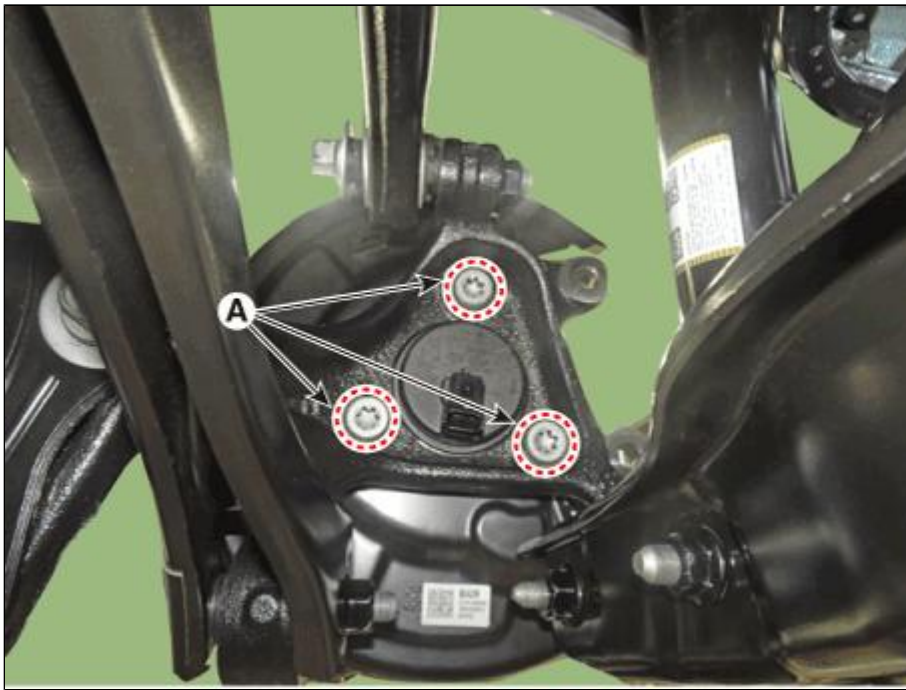
5. Disconnect the rear wheel speed sensor connector (A).



6. Loosen the bearing mounting bolts (A) and then remove the hub bearing assembly.

Tightening torque :

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

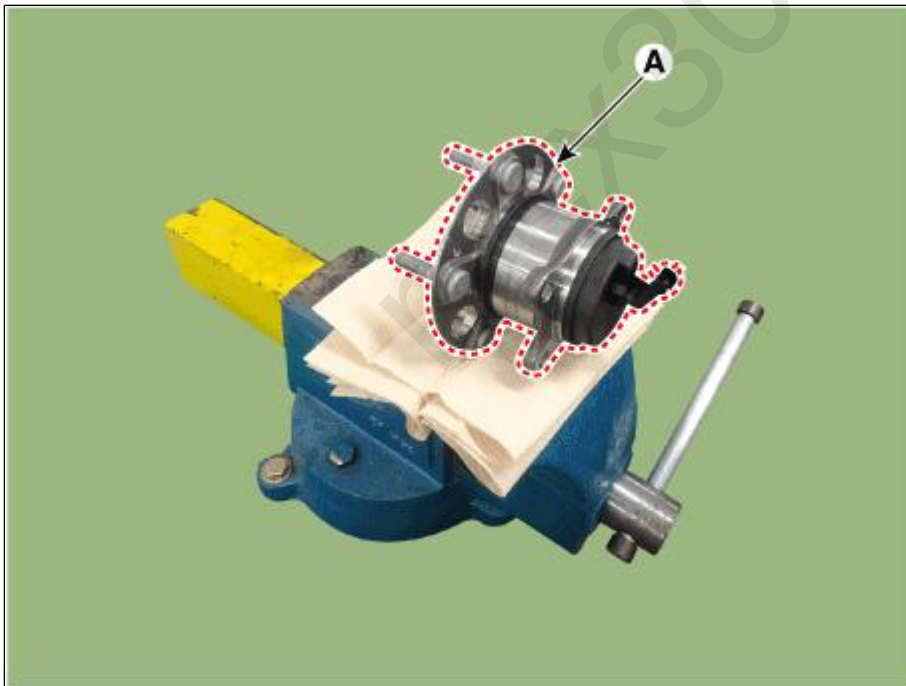


Replacement

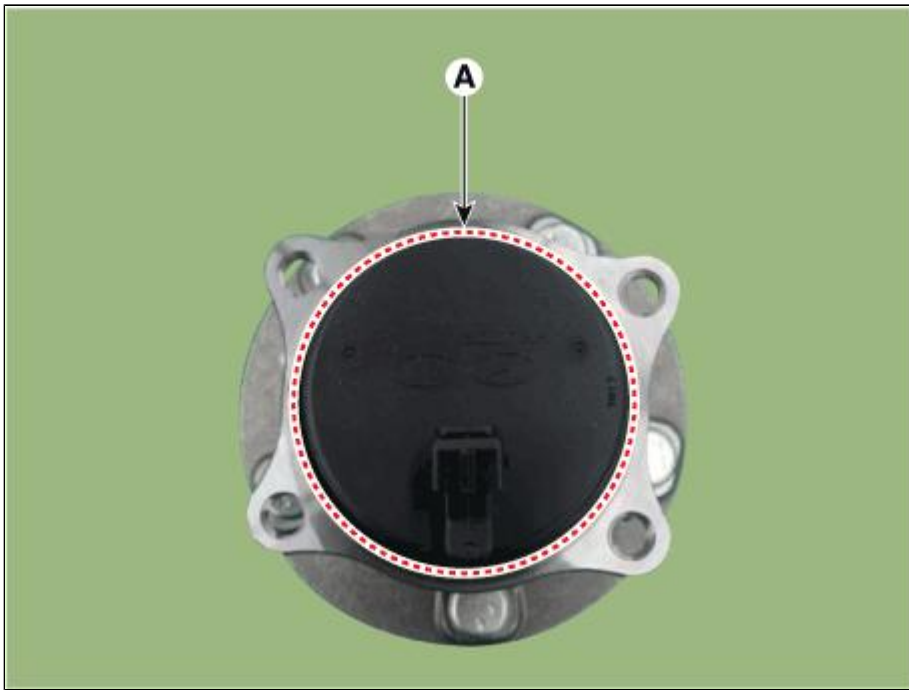
1. Remove the rear wheel hub bearing assembly.
(Refer to Driveshaft and Axle - "Rear Hub - Carrier")
2. Fix the rear hub bearing assembly (A) on the vise.

NOTICE

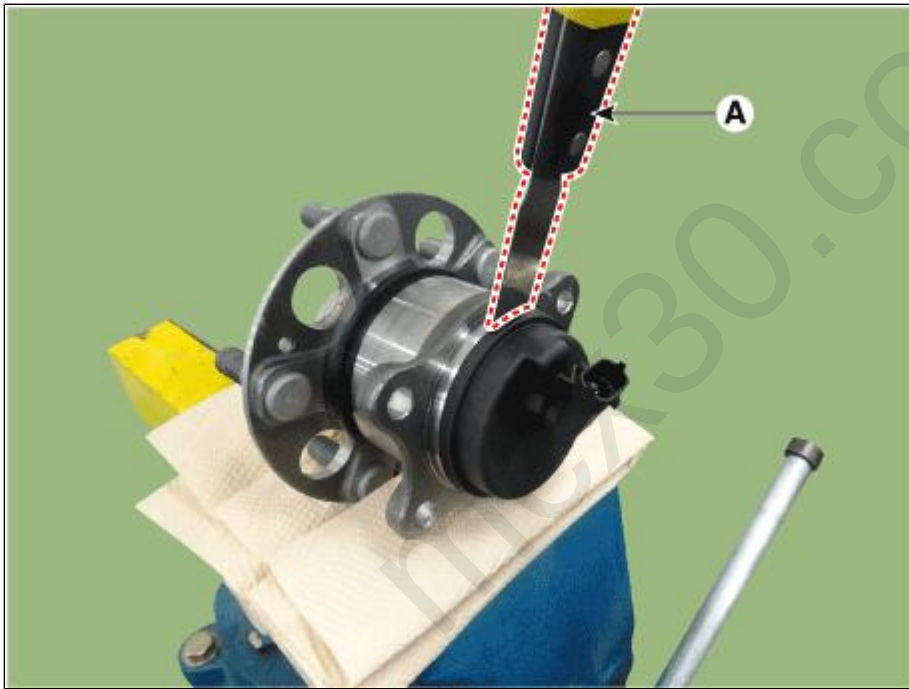
When fixing on the vise, use a cloth not to be damaged the hub bearing assembly.
Be careful if excessive force for fixing on the vise may damage the hub bearing assembly.



3. Check the direction of the sensor cap (A).



4. Remove the sensor cap by hammering on a gap between sensor cap and hub bearing assembly using a scraper (A).



NOTICE

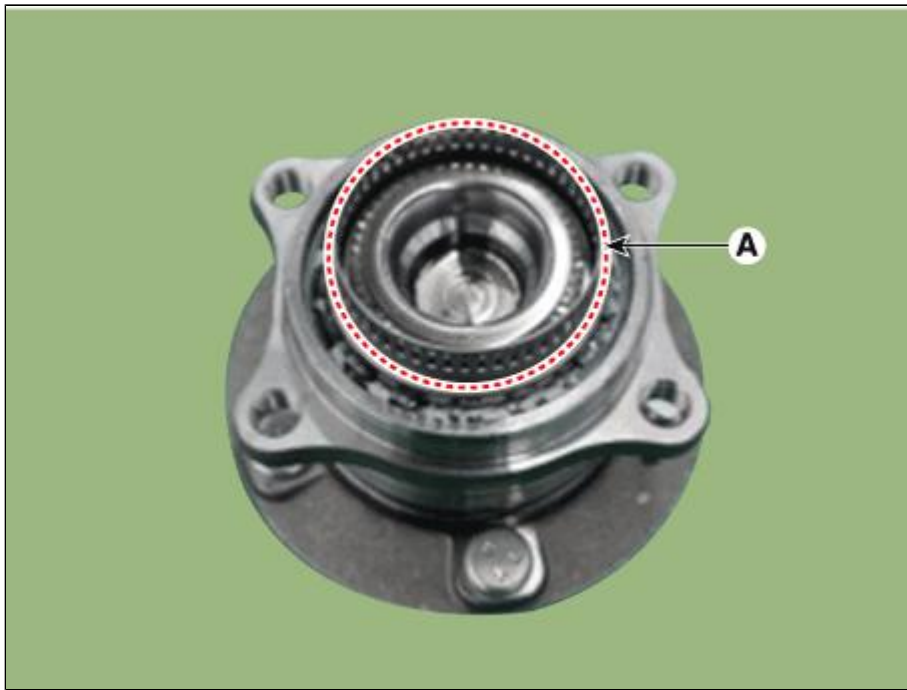
In order to widen the gap little by little, hammering around the bearing cap 10-20 times.



When removing the sensor cap, remove it in a straight direction not to damage the tone wheel or encoder.



5. Check if distorted or damaged the tone wheel or encoder (A).



NOTICE

Check if damaged the tone wheel or encoder after removing the sensor cap and replace the hub bearing if it was deformed.

If the tone wheel is deformed, it may trigger the MIL ON or other problems.

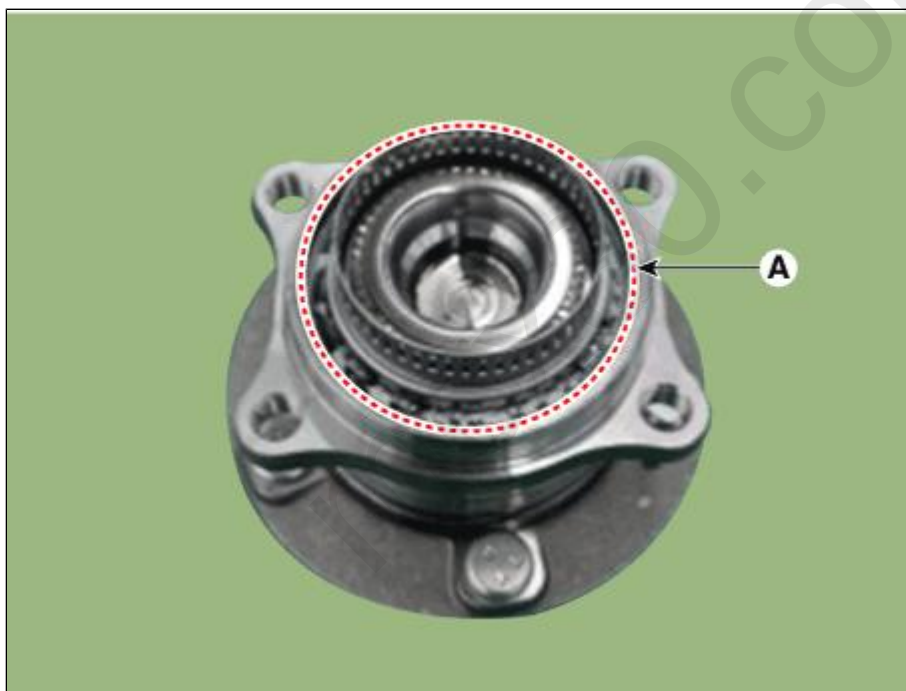


6. Position the sensor cap to the same direction of sensor cap connector (A) as you checked before removing.



NOTICE

Before installing the sensor cap, do not let any foreign material and contaminant into the hub bearing (A) assembly.

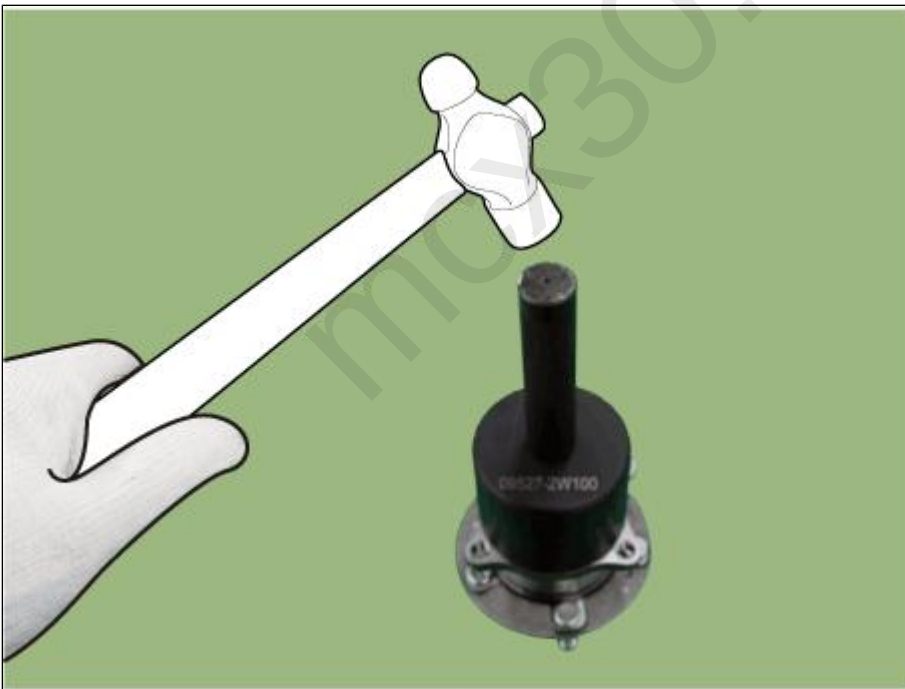


7. Install the sensor cap (A) with the special service tool (09527-AL300).



NOTICE

Hammer until there is no gap between the SST and hub bearing assembly and install the sensor cap.



Be careful not to tilt to one side when installing the sensor cap as it may damage the tone wheel or encoder. When sensor cap installation, hammering it until the gap disappeared between the sensor cap and hub bearing assembly.



[OK]



[NG]

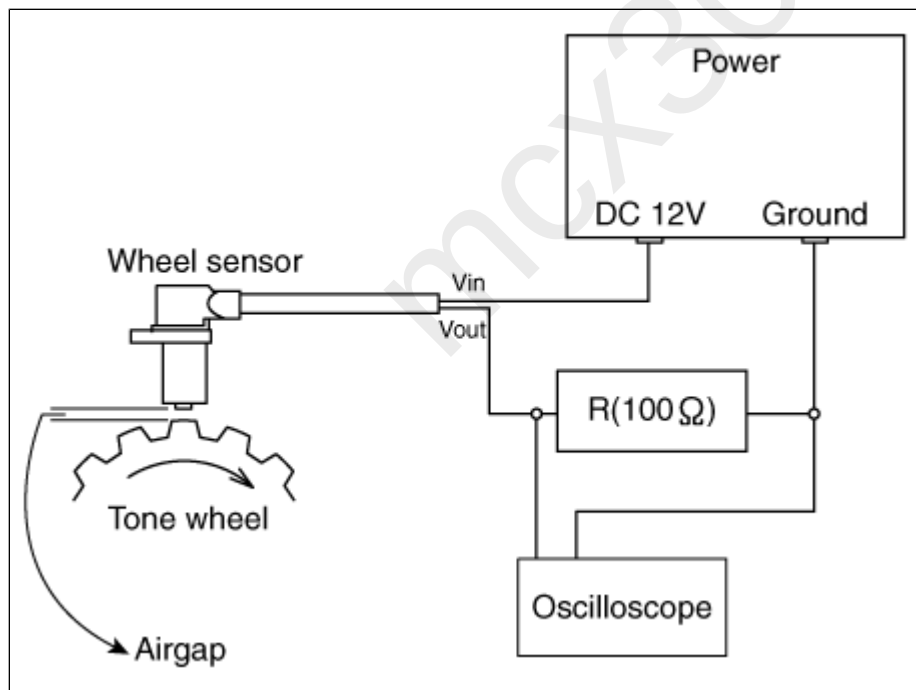
8. Install the rear wheel hub bearing assembly.
(Refer to Driveshaft and Axle - "Rear Hub - Carrier")

Inspection

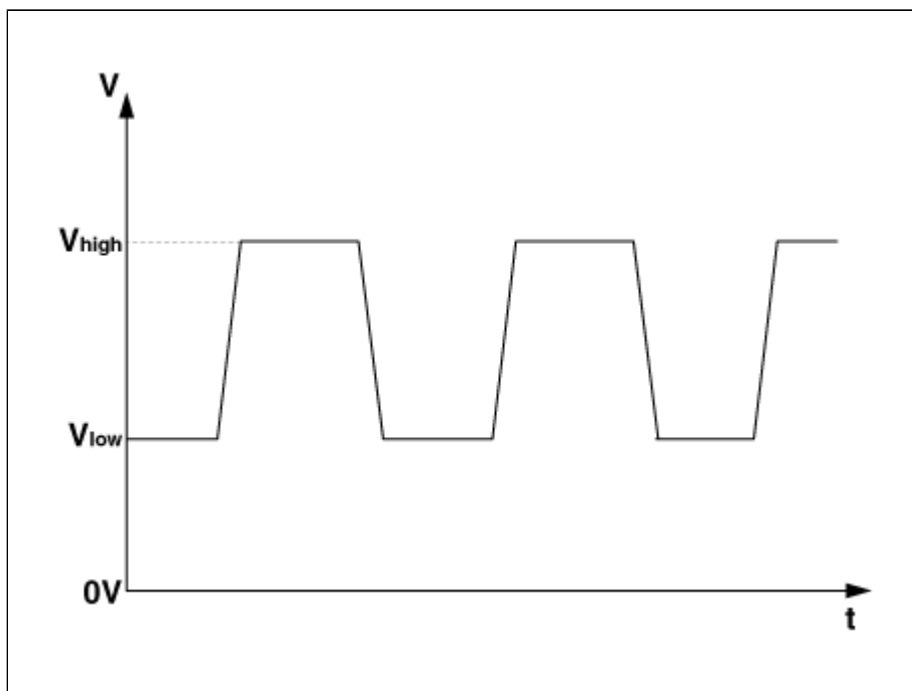
1. Measure the output voltage between the terminal of the wheel speed sensor and the body ground.

NOTICE

In order to protect the wheel speed sensor, when measuring output voltage, a 100Ω 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 - 2,500 Hz

Installation

1. Install in the reverse order of removal.

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