

AUTOMATIC FREE-WHEELING HUB INDICATOR SYSTEM SPECIFICATIONS

GENERAL SPECIFICATIONS

N06RB-

Items	Specifications
Automatic free-wheeling hub indicator light W (SAE trade number)	1.4(74)
Pulse generator Type	Magnet coil type
Vehicle-speed sensor Type	Reed switch type
Pulse generation	4 pulses/rotation

SERVICE SPECIFICATIONS

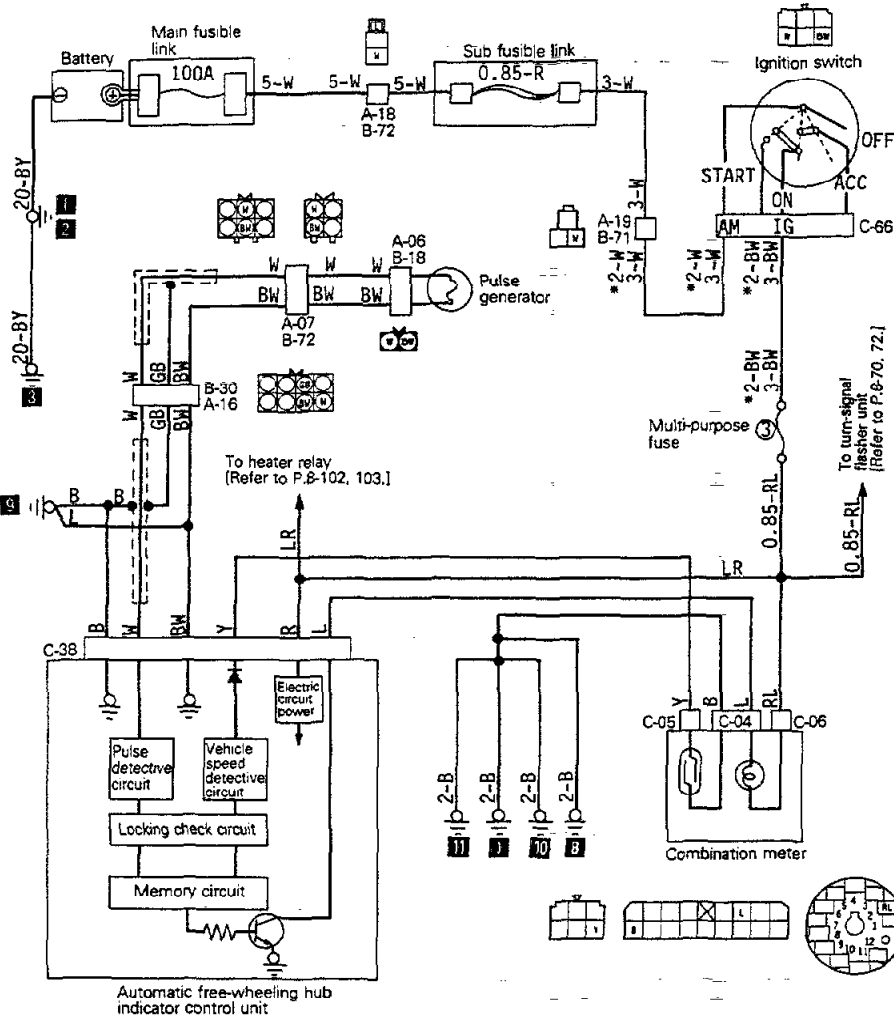
N06RC-

Items	Specifications
Standard values	
Pulse generator resistance Ω	215–275
Vehicle-speed sensor output voltage V	
When OFF	4 or more
When ON	0

TROUBLESHOOTING

**AUTOMATIC FREE-WHEELING HUB INDICATOR SYSTEM CIRCUIT
CIRCUIT DIAGRAM**

NO8RHAA



37W723

Remarks

- (1) Lines and connectors indicated by the * symbol are applicable to the 2.6-liter models.
- (2) For information concerning the ground points (example: ■), refer to P.8-12, 14.

Wiring color code

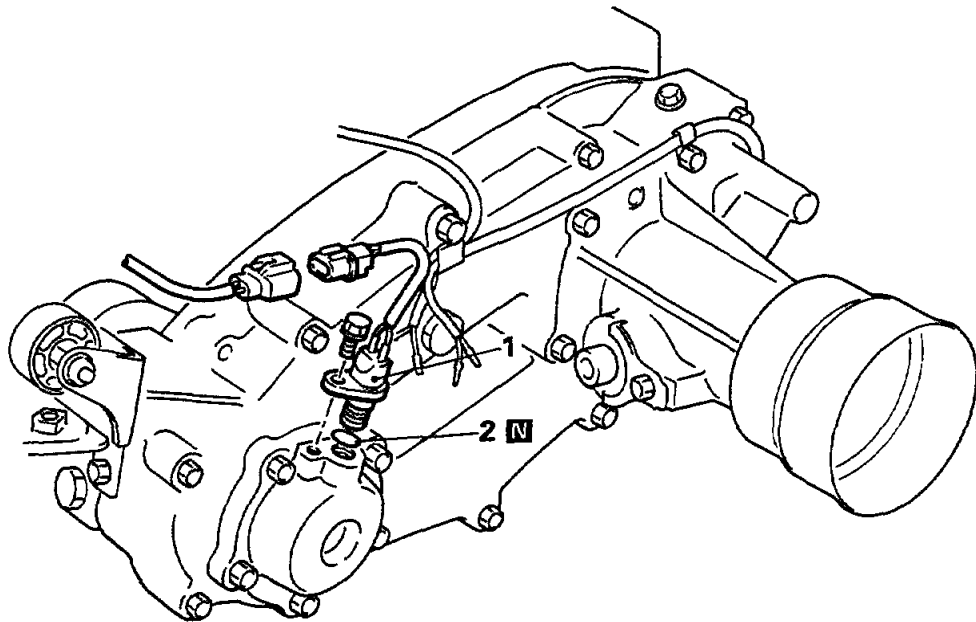
B: Black	Br: Brown	G: Green	Gr: Gray	L: Blue	Lg: Light green
Ll: Light blue	O: Orange	P: Pink	R: Red	Y: Yellow	W: White

OPERATION

- When the ignition switch is placed in the "ON" position, battery voltage will go to the automatic free-wheeling hub indicator control unit through fuse No. 3.
- When driving with the free-wheeling hub in the "LOCK" position, the pulse signal from the pulse generator and the vehicle speed signal from the vehicle speed sensor will be input into the control unit.
- When vehicle speed increases over about 5km/h (3 mph), the control unit goes on, electrical current flows to fuse No. 3, the automatic free-wheeling hub indicator control unit and the ground, lighting the automatic free-wheeling indicator light.
- When the vehicle is stopped in this situation, the pulse signal and vehicle speed signal are not input, and the control unit memory circuit leaves the indicator light on.
- When driving with the free-wheeling hub in the "FREE" position, the pulse signal is not input to the control unit causing the control unit to go OFF and the indicator light to go out.

**PULSE GENERATOR
REMOVAL AND INSTALLATION**

N08RJAA



Removal steps

1. Pulse generator
2. O-ring

NOTE

- (1) Reverse the removal procedures to reinstall.
- (2) **N** : Non-reusable parts

16W087

INSPECTION

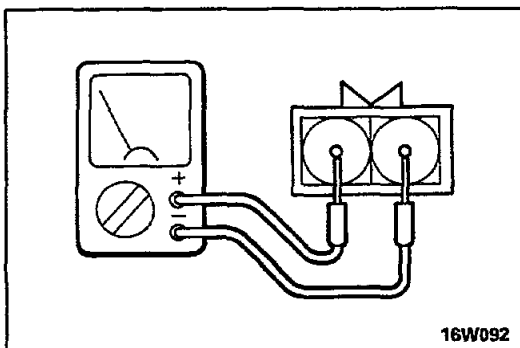
- Check whether or not metal particles are adhered to the pole (iron core) of the pulse generator.
- Check whether or not the installation bolts of the pulse rotor or the pulse generator are loose.
(For detailed information concerning the pulse rotor, refer to GROUP 21 — Transfer.)

CHECKING PULSE GENERATOR RESISTANCE

Check whether or not the resistance between the terminals shown in the figure is within the standard value range.

Standard value: 215–275 Ω

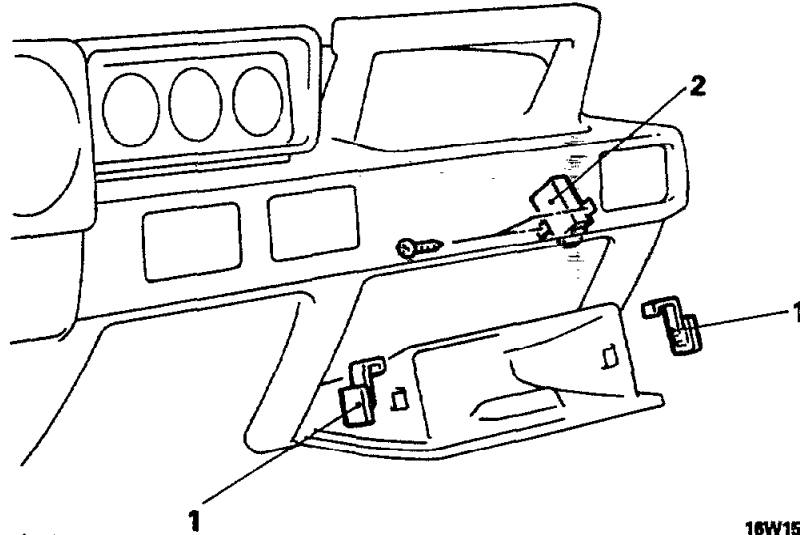
If the resistance is not within the standard value range, replace the pulse generator.



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AUTOMATIC FREE-WHEELING HUB INDICATOR CONTROL UNIT REMOVAL AND INSTALLATION

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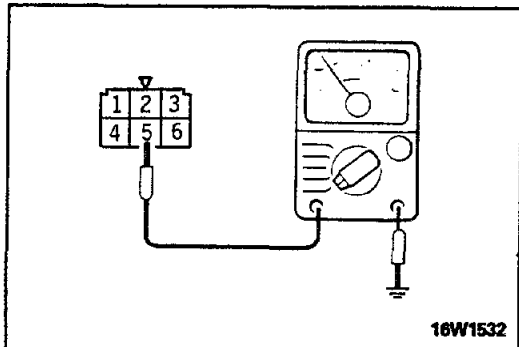


Removal steps

1. Glove compartment stopper
2. Automatic free-wheeling hub indicator control unit

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NOTE
Reverse the removal procedures to reinstall.



16W1532

CHECKING OUTPUT VOLTAGE OF THE VEHICLE-SPEED SENSOR (REED TYPE SWITCH)

1. Turn the ignition key to ON.
2. Insert a test probe from the rear side of the connector of the automatic free-wheeling hub indicator control unit.
3. Measure the output voltage of the vehicle-speed sensor when the vehicle is moved a distance of about 0.5 m (1.6ft.).

Standard values:

Vehicle-speed sensor OFF: 4V or higher
Vehicle-speed sensor ON: 0V

If there is a malfunction of the vehicle-speed sensor, replace it by replacing the speedometer assembly.

NOTE

NOTE