

ELECTRONIC CONTROL COMPONENTS INSPECTION

STEERING SENSOR

SR078-01

- (a) Connect the positive (+) lead from the battery to terminal G and the negative (-) lead to terminal 2.
- (b) Connect the tester as shown in the illustration.
- (c) Using a thick card such as a postcard to obstruct light at (A) and (B), measure the resistance between ground and terminal (2) or (4) when the lights are exposed or obstructed according to the table below:

Light Exposure Condition	Terminal (2) – Ground	Terminal (4) – Ground
Ⓐ and Ⓑ exposed	Approx. 100 Ω	Approx. 100 Ω
Ⓐ and Ⓑ obstructed	∞	∞
Only Ⓐ is obstructed	∞	Approx. 100 Ω
Only Ⓑ is obstructed	Approx. 100 Ω	∞

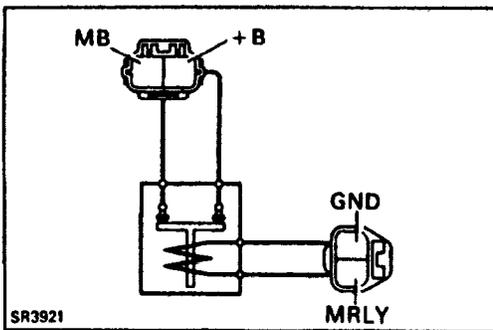
SPEED SENSOR

SR076-01

(See page BE-81)

POWERTRAIN CONTROL MODULE ENGINE (PCME)

(See page FI-406)



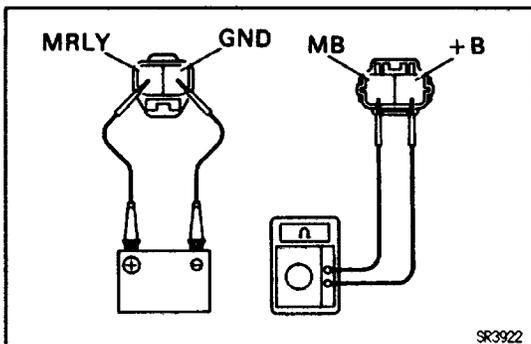
POWER STEERING RELAY

SR075-01

- (a) Inspect the relay continuity between terminals as shown.

MRLY	GND	+B	MB
○	○		

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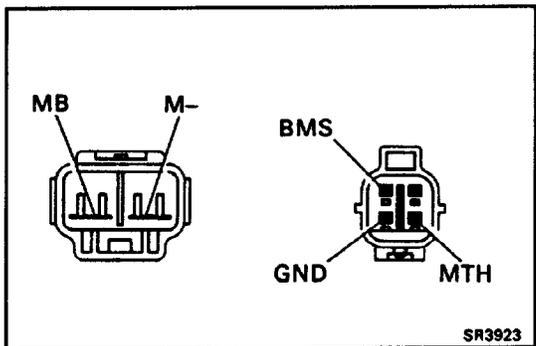


- (b) Connect the positive (+) lead from the battery to terminal MRLY and the negative (-) lead to terminal GND.
- (c) Check that there is continuity between terminals +B and MB.

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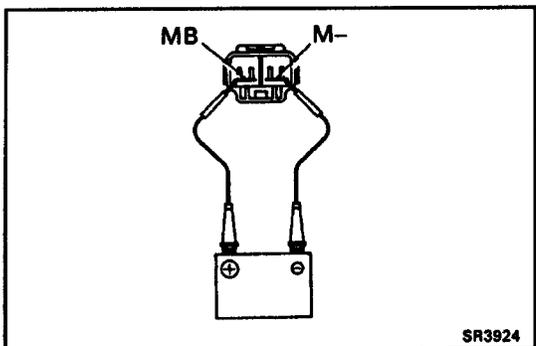
POWER STEERING MOTOR

(a) Inspect the motor continuity between terminals as shown.



Terminal / Condition	MB	M-	MTH	BMS	GND
Motor brushes installed	○	○	○	○	○
Motor brushes removed	○	○	○		

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(b) Connect the positive (+) lead from the battery to terminal M B and the negative (-) lead to terminal M -, check that the motor turns.

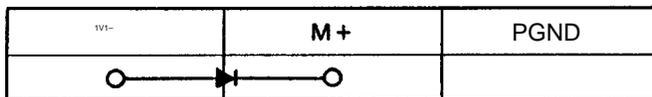
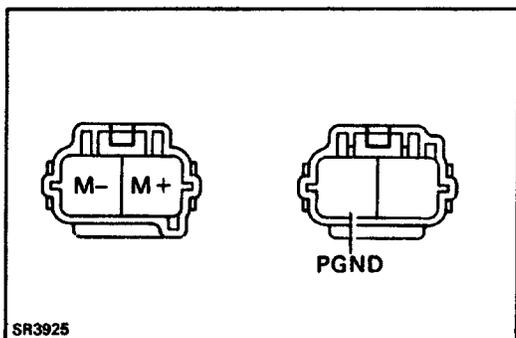
NOTICE:

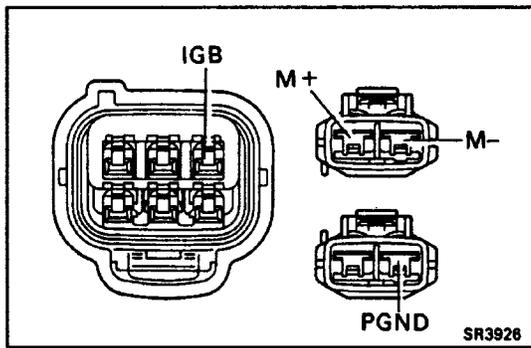
- Be careful about fluid flying about.
- Do not run the motor more than is necessary.

SR070 01

POWER STEERING DRIVER

(a) Inspect continuity between terminals on the driver side connector.



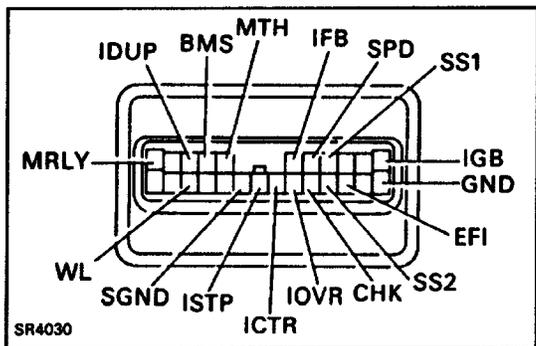


(b) Disconnect the connectors and inspect the connectors on the wire harness side as shown.

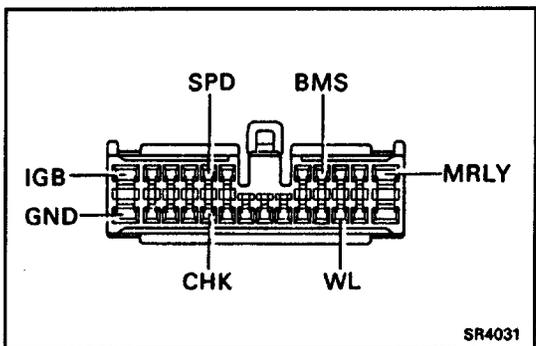
Check for	Tester Connection	Condition		Specified Value
Continuity	PGND - Ground	Constant		Continuity
	M+ - M-	Constant		Continuity
Voltage	IGB - Ground	Ignition switch	OFF	0 V
			ON	Battery voltage

SR07H-01

POWER STEERING ECU



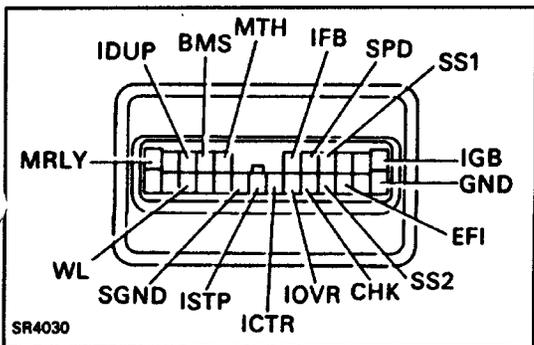
(a) Check that there is continuity between terminals GND and SGND.



(b) Disconnect the connector and inspect the connector on the wire harness die as shown.

Check for	Tester Connection	Condition	Specified Value	
Continuity	G N D – Ground	Constant	Continuity	
	MRLY – Ground	Constant	Continuity	
	6MS – Ground	Normal	Power steering motor brushes installed	Continuity
			Power steering motor brushes removed	No continuity
	CHK – Ground	Connect terminals Te and E, of check connector	Normal	No continuity
			Connect terminals Te and E, of check connector	Continuity
SPD – Ground	Ignition switch ON and spin slowly rear wheel	Ignition switch ON and spin slowly rear wheel	Continuity	
		Ignition switch ON and spin slowly rear wheel	No continuity	
Voltage	IG6 – Ground	Ignition switch	OFF	0 V
			ON	Battery voltage
	WL – Ground	Ignition switch	OFF	0 V
			ON	Battery voltage

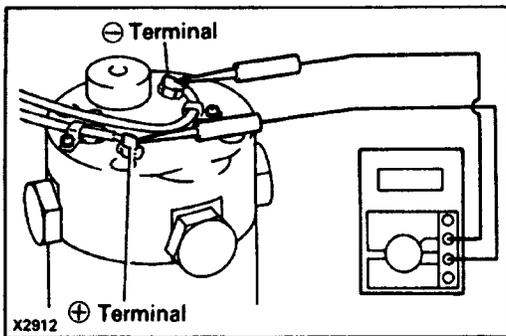
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(c) Inspect the system circuit with the connector connected.

Tester Connection	Condition	Voltage
EFI - Ground	Ignition switch ON and engine stopped	1.5 V or less
	Engine running	4.5 V or more
MRLY - Ground	Engine running	5 V or more
6MS - Ground	Ignition switch ON and power steering motor brushes installed	1.5 V or less
	Ignition switch ON and power steering motor brushes removed	4.5 V or more
SPD - Ground	Ignition switch ON and spin slowly rear wheel	1.5 V or less ↓ 4.5 V or more
SS1 - Ground	Ignition switch ON and turn slowly steering wheel	1.5 V or less
SS2 - Ground		5 V or more
CHK - Ground	Connect terminals Tc and E, of check connector	1.5 V or less
	Normal	4.5 V or more
ICTR - SGND	Steering wheel operated with engine running and vehicle speed at 0 km/h (0 mph)	2.3 - 4.8 V
	Steering wheel operated with vehicle speed at 65 km/h (40 mph)	1.8 - 2.4 V

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(d) Measure the output voltage (M +) of the power steering driver at the position on the power steering motor shown in the illustration.

Condition	Voltage
Steering wheel operated with engine running and vehicle speed at 0 km/h (0 mph)	9-11 V
Steering wheel operated with vehicle speed at 65 km/h (40 mph)	3-5V

NOTICE: Do not bring the tester into contact with anything other than the terminals; if the tester causes a short between the terminals and the housing, this may result in a blown fuse or incorrect measurement.

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