

Magnetic Switch Test

1. Disconnect the battery negative cable from the battery.
2. Disconnect the battery positive cable and the leads from the starter.
3. Remove the starter from the engine.
4. Disconnect the connecting lead (1) from the starter **C** terminal (2).
5. Connect a jumper lead from the starter **S** terminal (3) to the battery positive terminal post.
6. Connect a jumper lead momentarily between the starter **C** terminal (2) and the battery negative terminal post.
7. If the pinion gear does not pop out, check the magnetic switch.

NOTE

- This test should be carried out for a short time, about 3 to 5 seconds.

(1) Connecting Lead
(2) **C** Terminal

(3) **S** Terminal

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Checking Starter Relay

1) Connector Voltage

Relay	Terminal	Color of Wiring
Starter Relay	A	B/R
	B	B/W
	C	R
	D	B/W

1. Turn the main switch off.
2. Remove the starter relay.
3. Measure the voltage across the terminal **C** and chassis.
4. Measure the voltage across the terminal **A** and chassis while turn the main switch to **START** position.
5. If the voltage is different from the battery voltage, battery, slow blow fuse, wiring harness and main switch is faulty.

Voltage	C terminal – Chassis	Approx. battery voltage
	A terminal – Chassis (while main switch is in START position)	Approx. battery voltage

2) Starter Relay

1. Measure the resistance across the terminal **A** and **B**.
2. If the resistance notably differs from the factory specifications, starter relay is faulty.
3. Apply battery voltage across the terminal **A** and **B**, and check for continuity across the terminal **C** and **D**.
4. If there is no continuity, starter relay is faulty.

Resistance	A terminal – B terminal	80 Ω
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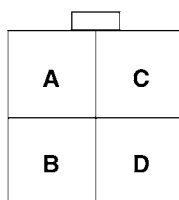
(1) Starter Relay

[A] Connector of Wiring Harness side

[B] Engine Stop Solenoid Relay side

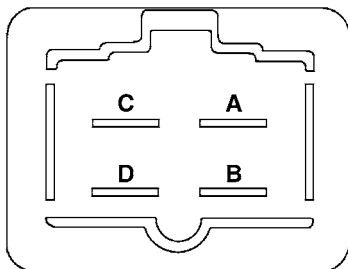
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[A]



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[B]



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