

2005 Mazda MX-5 Miata

2005 ACCESSORIES & EQUIPMENT Power Systems - MX-5 Miata

2005 ACCESSORIES & EQUIPMENT

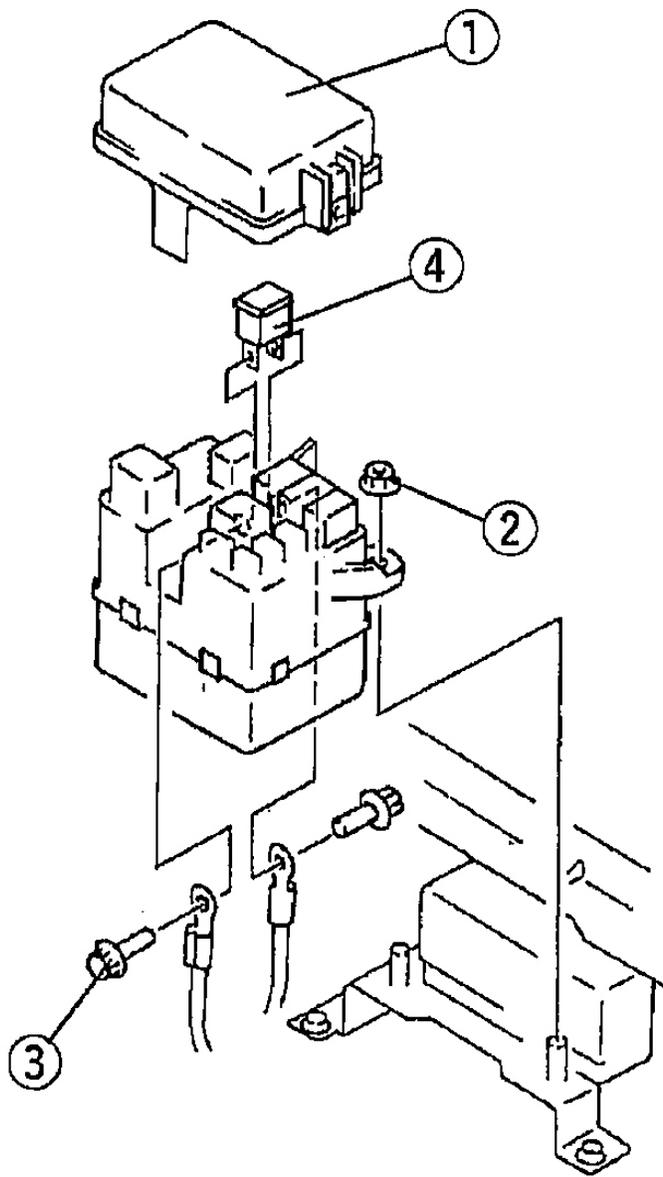
Power Systems - MX-5 Miata

FUSE SERVICE CAUTION

- CAUTION:**
- Determine and correct the cause of the burnt fuse before replacing it. If the fuse is replaced before doing this, it may burn again.

MAIN FUSE REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.



1	Main fuse block cover
2	Nut
3	Bolt
4	Main fuse

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Fig. 1: Removing Main Fuse

Courtesy of MAZDA MOTORS CORP.

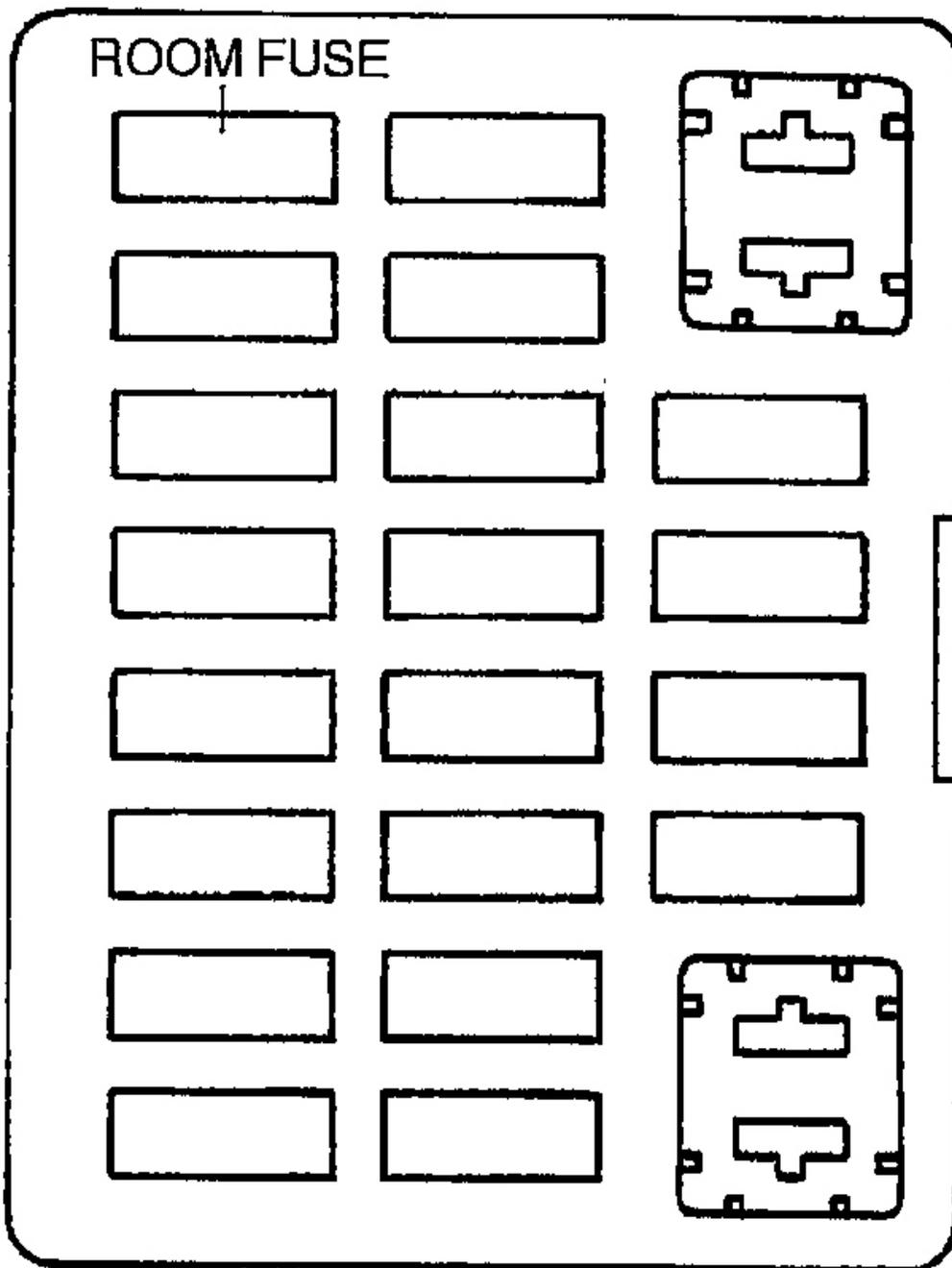
3. Install in the reverse order of removal.

ROOM FUSE INSTALLATION

NOTE:

- **When the ROOM fuse is burnt or removed, the malfunction indicator lamp illuminates. If the ROOM fuse is replaced or installed with the ignition switch at the ON position, the malfunction indicator lamp will continue to illuminate.**

1. Turn the ignition switch to the LOCK position.
2. Install the ROOM fuse.



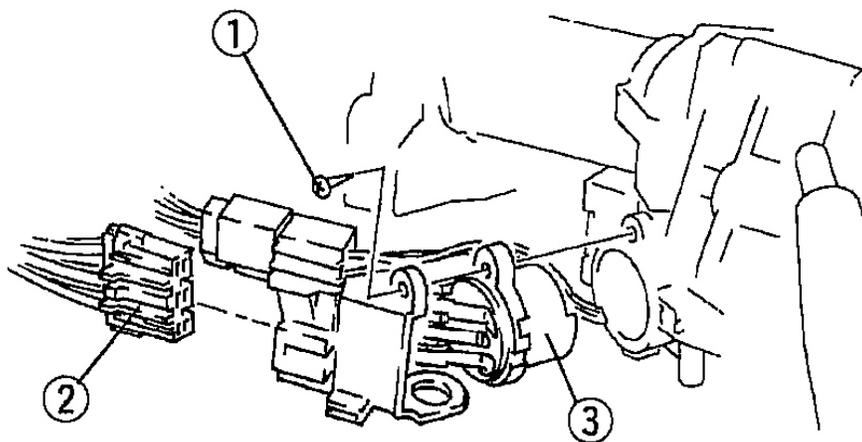
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Fig. 2: Identifying Room Fuse

Courtesy of MAZDA MOTORS CORP.

IGNITION SWITCH REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the column cover, (See COLUMN COVER REMOVAL/INSTALLATION .)
3. Remove in the order indicated in the table.



1	Screw
2	Connector
3	Ignition switch

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Fig. 3: Removing Ignition Switch
Courtesy of MAZDA MOTORS CORP.

4. Install in the reverse order of removal.

IGNITION SWITCH INSPECTION

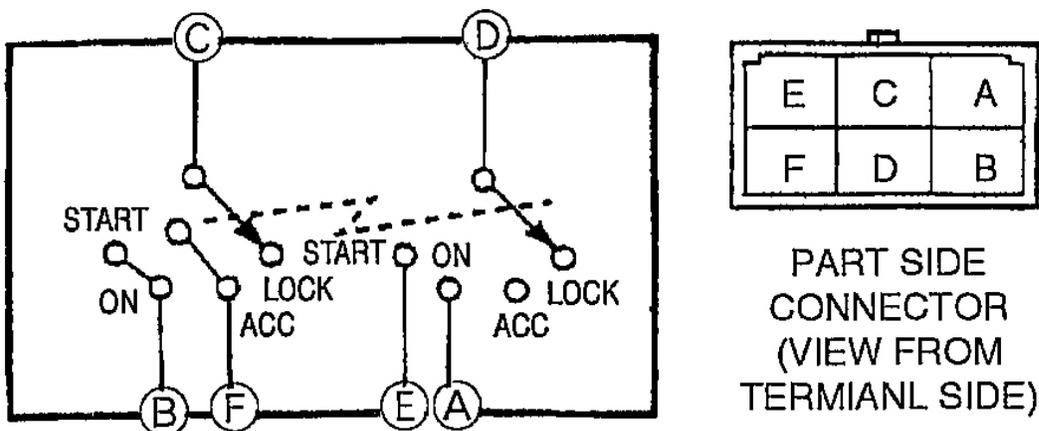
1. Remove the column cover. (See COLUMN COVER REMOVAL/INSTALLATION .)
2. Disconnect the ignition switch connector.
3. Inspect for continuity between the ignition switch terminals using an ohmmeter.
 - If not as specified, replace the ignition switch.

○—○ : Continuity

Key position	Terminal					
	A	B	C	D	E	F
LOCK						
ACC			○—○			○—○
ON	○—○	○—○	○—○	○—○		○—○
START		○—○	○—○	○—○	○—○	

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Fig. 4: Ignition Switch Terminal Connector Continuity
 Courtesy of MAZDA MOTORS CORP.



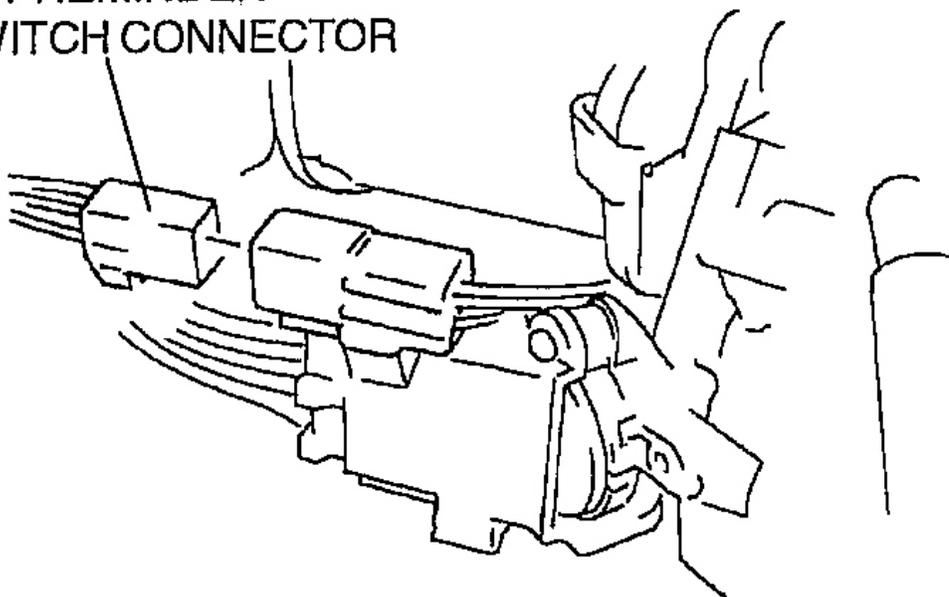
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Fig. 5: Inspecting For Continuity Between Ignition Switch Terminals Using An Ohmmeter
 Courtesy of MAZDA MOTORS CORP.

KEY REMINDER SWITCH INSPECTION

1. Remove the column cover. (See **COLUMN COVER REMOVAL/INSTALLATION** .)
2. Disconnect the key reminder switch connector.

KEY REMINDER
SWITCH CONNECTOR



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Fig. 6: Identifying Key Reminder Switch Connector
Courtesy of MAZDA MOTORS CORP.

3. Inspect for continuity between the key reminder switch terminals using an ohmmeter.
 - If not as specified, replace the steering lock.

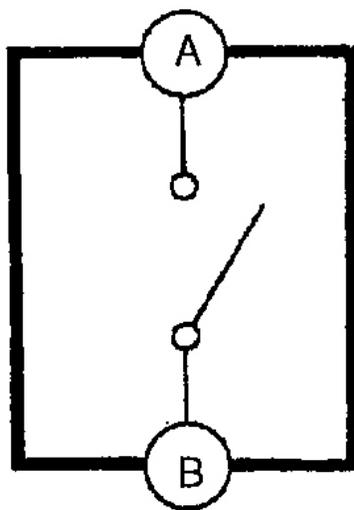
(See **STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION** .)

○—○ : Continuity

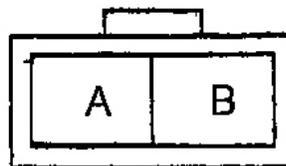
Key condition	Terminal	
	A	B
Key inserted	○—○	○—○
Key removed		

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Fig. 7: Key Reminder Switch Terminal Connector Continuity
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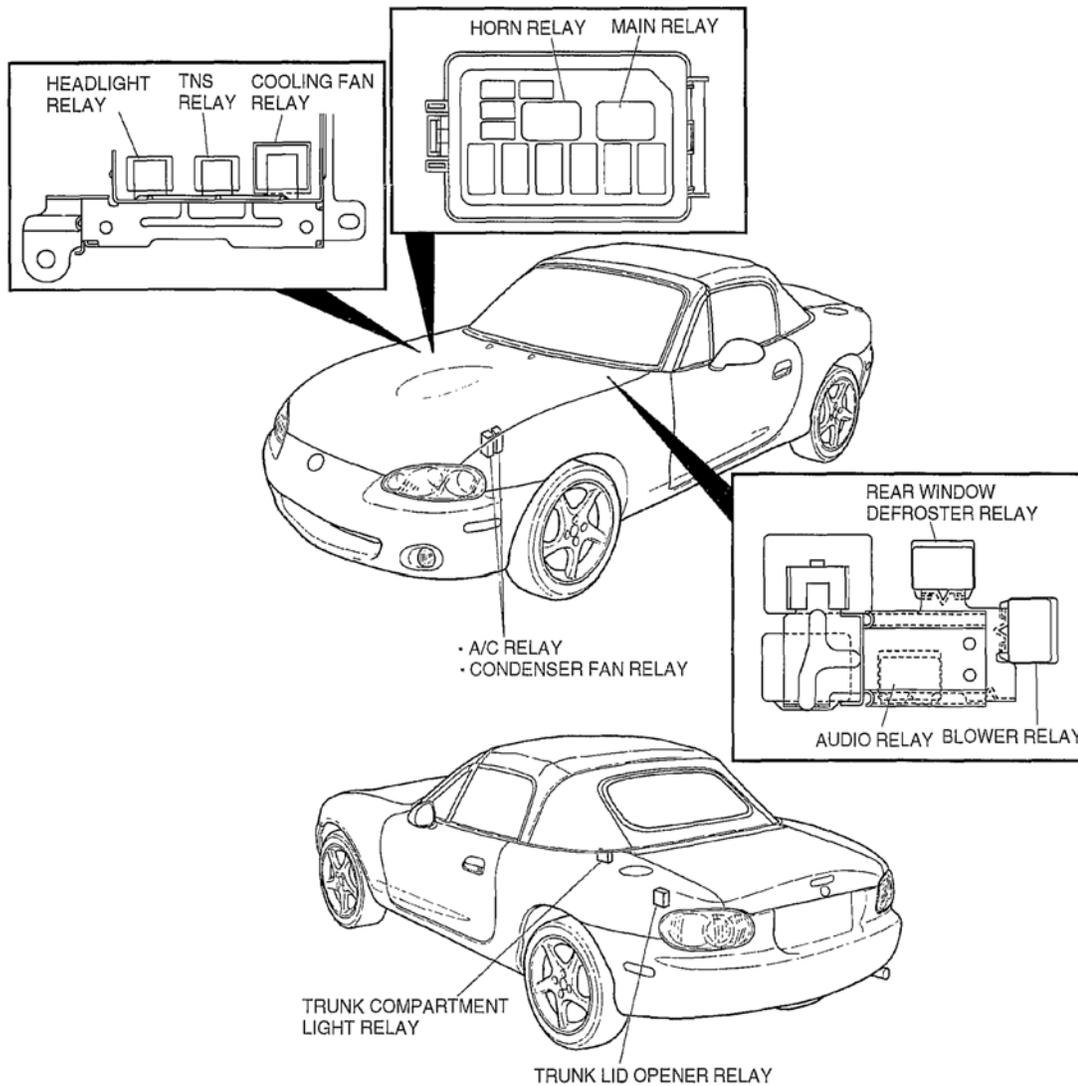
PART SIDE CONNECTOR
 (VIEW FROM TERMINAL SIDE)

Fig. 8: Inspecting For Continuity Between Key Reminder Switch Terminals Using An Ohmmeter
 Courtesy of MAZDA MOTORS CORP.

RELAY LOCATION

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Fig. 9: Locating Relays
 Courtesy of MAZDA MOTORS CORP.

RELAY INSPECTION

RELAY TYPE

RELAY TYPE

Terminal type		Parts name
	Type A	<ul style="list-style-type: none"> • Headlight relay • A/C relay • Condenser fan relay

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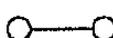
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Four-terminal		<ul style="list-style-type: none"> • TNS relay • Main relay
	Type B	<ul style="list-style-type: none"> • Horn relay • Cooling fan relay
	Type C	<ul style="list-style-type: none"> • Rear window defroster relay • Front fog light relay • Audio relay • Blower relay • Trunk lid opener relay
Five-terminal		<ul style="list-style-type: none"> • Trunk compartment light relay

FOUR-TERMINAL

Type A

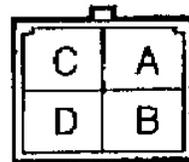
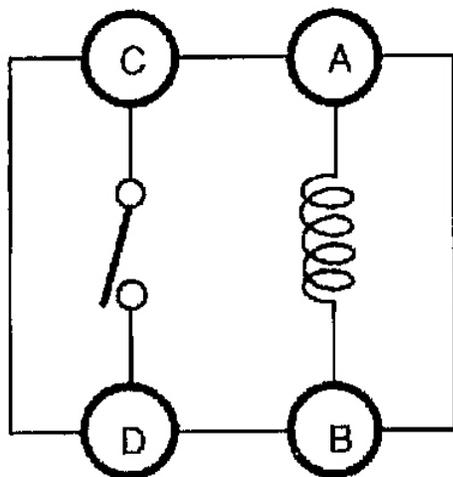
1. Remove the relay.
2. Inspect for continuity between the relay terminals using an ohmmeter.
 - If not as specified, replace the relay.

 : Continuity

Step	Terminal			
	A	B	C	D
1				
2	B+	GND		

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Fig. 10: Four-Terminal (Type A) Relay Terminal Connector Continuity
 Courtesy of MAZDA MOTORS CORP.



PART SIDE CONNECTOR
(VIEW FROM TERMINAL SIDE)

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Fig. 11: Inspecting For Continuity Between Four-Terminal (Type A) Relay Terminals Using An Ohmmeter
Courtesy of MAZDA MOTORS CORP.

Type B

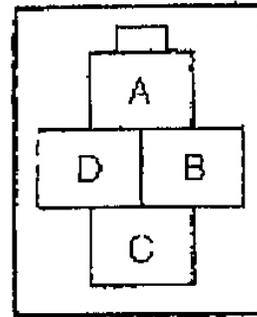
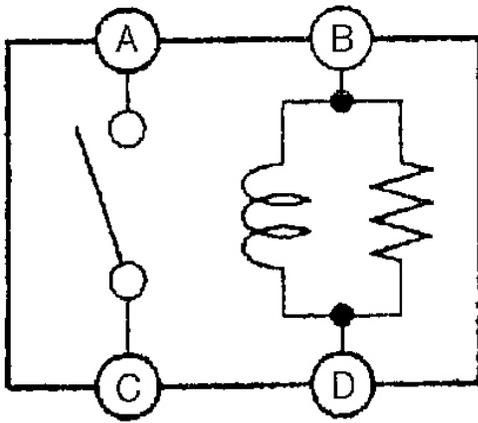
1. Remove the relay.
2. Inspect for continuity between the relay terminals using an ohmmeter.
 - If not as specified, replace the relay.

○—○ : Continuity

Step	Terminal			
	D	B	A	C
1	○—○			
2	GND	B+	○—○	

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Fig. 12: Four-Terminal (Type B) Terminal Connector Continuity
Courtesy of MAZDA MOTORS CORP.



PART SIDE CONNECTOR
(VIEW FROM TERMINAL SIDE)

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Fig. 13: Inspecting For Continuity Between Four-Terminal (Type B) Relay Terminals Using An Ohmmeter

Courtesy of MAZDA MOTORS CORP.

Type C

1. Remove the relay.
2. Inspect for continuity between the relay terminals using an ohmmeter.
 - If not as specified, replace the relay.

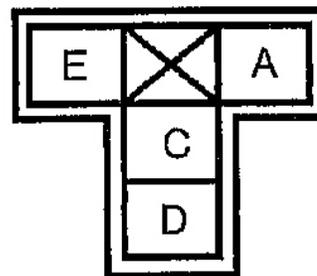
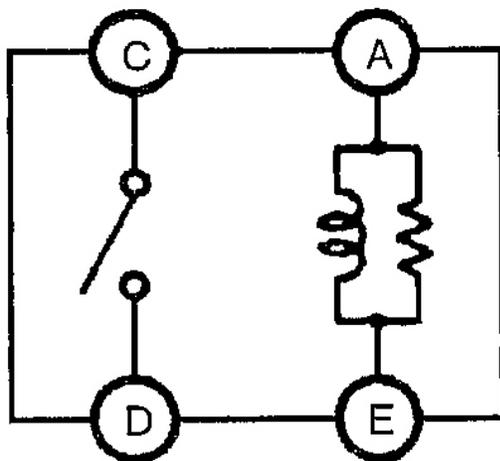
○—○ : Continuity

Step	Terminal			
	A	E	C	D
1	○—○			
2	B+	GND	○—○	

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Fig. 14: Four-Terminal (Type C) Terminal Connector Continuity

Courtesy of MAZDA MOTORS CORP.



PART SIDE
CONNECTOR
(VIEW FROM
TERMINAL SIDE)

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Fig. 15: Inspecting For Continuity Between Four-Terminal (Type C) Relay Terminals Using An Ohmmeter
Courtesy of MAZDA MOTORS CORP.

FIVE-TERMINAL

1. Remove the relay.
2. Inspect for continuity between the relay terminals using an ohmmeter.
 - If not as specified, replace the relay.

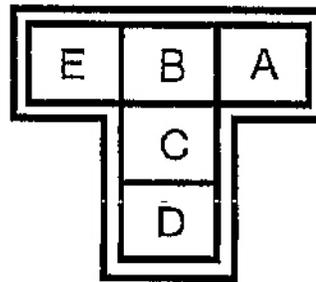
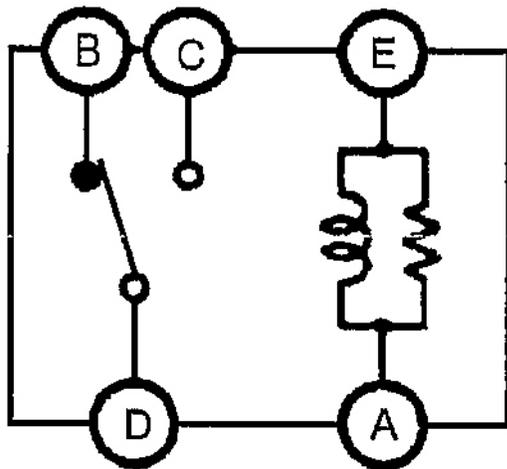
○ — ○ : Continuity

Step	Terminal				
	A	E	B	C	D
1	○ — ○	○ — ○	○ — ○	○ — ○	○ — ○
2	B+	GND		○ — ○	○ — ○

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Fig. 16: Five-Terminal Connector Continuity

Courtesy of MAZDA MOTORS CORP.



PART SIDE
CONNECTOR
(VIEW FROM
TERMINAL SIDE)

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Fig. 17: Inspecting For Continuity Between Five-Terminal Relay Terminals Using An Ohmmeter
Courtesy of MAZDA MOTORS CORP.