

ANTI-THEFT SYSTEM

Article Text

1993 Mazda 929

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Wednesday, March 24, 1999 11:43PM

ARTICLE BEGINNING

1993 ACCESSORIES/SAFETY EQUIPMENT

Mazda Anti-Theft System

929

DESCRIPTION & OPERATION

If alarm goes off, headlights and hazard lights flash, horn sounds and starter is disabled. Alarm goes off if the hood, trunk or a door is opened without a key, or if ignition switch is forced into START position without a key. Central Processing Unit (CPU) controls the system based on inputs it receives from the following switches:

- * Door switches indicate whether a door is open or closed.
- * Key cylinder switches indicate whether or not a door key cylinder or the trunk key cylinder is turned to the unlocked position.
- * Door lock link switches indicate whether door is locked or unlocked.
- * Hood switch indicates whether the hood is open or closed.
- * Trunk switch indicates whether the trunk is open or closed.

ELECTRICAL COMPONENT LOCATIONS TABLE

AA

Component	Location
-----------	----------

CPU	(1) Behind Left Kick Panel
Flasher Unit	Behind Dash, Right Of Steering Column
Headlight Relay	On Right Front Inner Fender
Hood Switch	On Hood Latch
Horn Relay	On Left Front Inner Fender
Joint Box	(1) Behind Left Kick Panel
Starter Cut Relay	On Left Front Inner Fender
Trunk Switch	On Trunk Latch

(1) - See Fig. 1.

AA

TESTING

SYSTEM OPERATION TEST

Initial Phase
Remove ignition key.

Pre-arming Phase 1
With hood and trunk closed, open any door. Security light will come on.

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Pre-arming Phase 2

Lock and close all doors. After security light stays lit for 10 seconds, system proceeds to ARMING PHASE 1.

Arming Phase 1

Security light flashes every 3 seconds, and system is armed.

Arming Phase 2

Trunk may be opened with key during arming phase 1. Security light should continue to flash. Process returns to arming phase 1 after trunk is closed.

Alarm Phase 1

If a door, hood or trunk is opened without a key, or if ignition switch is forced to the ON position, alarm is activated (horn sounds intermittently, headlights and hazard lights flash for 5 minutes, and starter does not operate).

Alarm Phase 2

Horn stops sounding, and headlights and hazard lights stop flashing, but starter remains inoperative.

Alarm Stop Phase

Unlock any door or trunk with key.

NOTE: If system does not operate as previously described, use the following procedure to determine where to begin testing.

1) Open any door window. Close all doors. Remove ignition key. With hood and trunk closed, open any door. If security light comes on and buzzer sounds once, go to next step. If security light does not come on and buzzer does not sound, go to TEST NO. 1. If buzzer sounds but security light does not come on, go to TEST NO. 2. If security light comes on but buzzer does not sound, go to TEST NO. 3.

2) With all doors locked, security light should stay lit for 10 seconds. After 10 seconds, buzzer should sound once then security light should flash every 3 seconds. If security light and buzzer respond as specified, go to next step. If buzzer does not sound or security light does not flash, go to TEST NO. 4.

3) Turn ignition on. If security light does not go out, go to TEST NO. 5. If security light goes out, go to next step.

4) Perform steps 1) and 2) to set arming condition. Unlock any door lock knob. Security light should go out, horn should sound and headlights and hazard lights should flash. Starter should not operate when trying to start engine. If results are as specified, go to next step. If results are not as specified, go to appropriate test.

- * If security light does not go out, go to TEST NO. 6.
- * If horn does not sound, go to TEST NO. 7.
- * If headlights do not flash, go to TEST NO. 8.
- * If hazard lights do not flash, go to TEST NO. 9.

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- * If starter operates, go to TEST NO. 10.

5) Using key, unlock any door key cylinder, or open trunk lid. Warning should cancel (horn should stop sounding, headlights and hazard lights should stop flashing and starter should operate).

- * If warning cancels when door and rear hatch are unlocked, go to next step.
- * If warning does not cancel when door is unlocked but cancels when rear hatch is unlocked, go to TEST NO. 11.
- * If warning does not cancel when rear hatch is unlocked but cancels when door is unlocked, go to TEST NO. 12.

6) Remove STOP and HEAD fuses. Perform steps 1), 2) and 3). If headlights and hazard lights do not flash, go to TEST NO. 13. If headlights and hazard lights do not stop flashing after about 5 minutes, go to TEST NO. 14.

SYSTEM DIAGNOSTIC TESTS

NOTE: Before performing the following tests, perform SYSTEM OPERATION TEST to determine which test to follow.

Test No. 1

1) Check ROOM fuse. If fuse is faulty, replace fuse (repair circuit if shorted). If fuse is okay, go to next step.

2) Remove CPU from joint box. See Fig. 1. Remove key from ignition switch. Measure voltage at terminal 3B of joint box connector. If battery voltage is not present, repair wiring between ROOM fuse and CPU. If battery voltage is present, go to next step.

3) Check continuity between ground and terminal 3D of joint box connector. If there is no continuity, repair wiring between CPU and ground. If there is continuity, go to next step.

4) Measure voltage at terminal 3N of joint box connector. If battery voltage is present, replace key reminder switch or repair wiring between ROOM fuse and CPU. If battery voltage is not present, go to next step.

5) Open both front doors. Check continuity between ground and terminal 3M of joint box connector. If there is no continuity, go to next step. If there is continuity, check continuity between ground and terminal 3H of joint box connector. If there is no continuity, go to step 7). If there is continuity, go to step 8).

6) Remove driver door switch. Check continuity between switch terminal and switch body with button released. If there is continuity, repair wiring between CPU and door switch. If there is no continuity, replace door switch.

7) Remove front passenger door switch. Check continuity between switch terminal and switch body with button released. If there is continuity, repair wiring between CPU and door switch. If there is no continuity, replace door switch.

8) Install CPU on joint box. Disconnect CPU 20-pin connector. Open rear door. Check continuity between ground and terminal 2D (Red

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wire) of CPU 20-pin connector. If there is continuity, connect CPU 20-pin connector and go to step 10). If there is no continuity, go to next step.

9) Remove door switch from either rear door. Check continuity between switch terminal and switch body with button released. If there is continuity, repair wiring between CPU and door switch. If there is no continuity, replace door switch. Perform same procedure at other rear door switch.

10) Disconnect CPU 16-pin connector. Close trunk and hood. Check continuity between ground and terminal 1D (Green/Red wire) of CPU 16-pin connector. If there is continuity, go to next step. If there is no continuity, check continuity between ground and terminal 1F (Blue/Red wire) of CPU 16-pin connector. If continuity exists, go to step 12). If there is no continuity, connect CPU 16-pin connector and go to step 13).

11) Remove trunk switch from trunk striker assembly. Check continuity between switch connector terminals. With switch lever pushed (trunk closed), there should be no continuity. With switch lever released (trunk open), there should be continuity. If continuity is not as specified, replace trunk switch. If continuity is as specified, repair wiring between CPU and trunk switch.

12) Remove hood switch from hood striker assembly. Check continuity between switch connector terminals. With switch lever pushed (hood closed), there should be no continuity. With switch lever released (hood open), there should be continuity. If continuity is not as specified, replace hood switch. If continuity is as specified, repair wiring between CPU and hood switch.

13) Disconnect CPU 20-pin connector. Ground terminal 2M (Red/Green wire) of CPU 20-pin connector. If security light comes on, replace CPU. If security light does not come on, go to next step.

14) Measure voltage at terminal 1I (Blue/Red wire) of instrument cluster connector No. 1 (White, 14-pin connector). See Fig. 2. If battery voltage is not present, repair wiring between ROOM fuse and instrument cluster. If battery voltage is present, measure voltage at terminal 1H (Red/Green wire) of instrument cluster connector No. 1. If battery voltage is present, repair wiring between instrument cluster and CPU. If battery voltage is not present, replace security light.

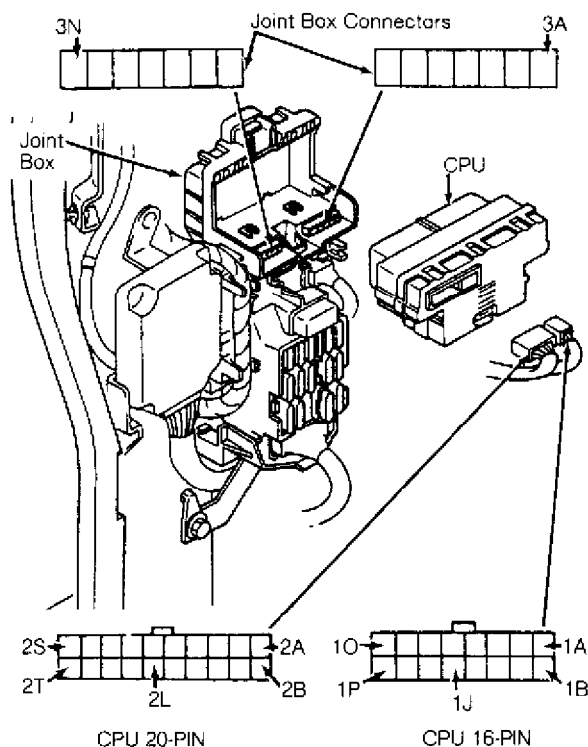
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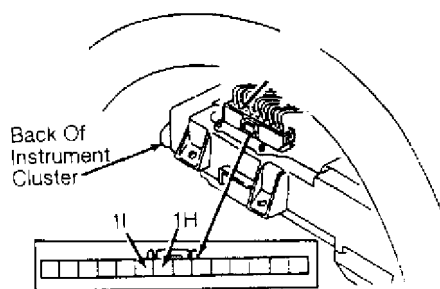
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93G82632

Fig. 1: Joint Box & CPU Connector Terminal ID
Courtesy of Mazda Motors Corp.



93H82633

Fig. 2: Terminals Of Instrument Cluster Connector No. 1 ID
Courtesy of Mazda Motors Corp.

Test No. 2

1) Remove key from ignition switch. Open any door. Disconnect CPU 20-pin connector. See Fig. 1. Ground terminal 2M (Red/Green wire) of CPU 20-pin connector. If security light comes on, replace CPU.

2) If security light does not come on, check voltage at

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terminal 1I (Blue/Red wire) of instrument cluster connector No. 1 (White, 14-pin connector). See Fig. 2. If battery voltage is present, repair wiring between ROOM fuse and instrument cluster.

3) Measure voltage at terminal 1H (Red/Green wire) of instrument cluster connector No. 1. If battery voltage is present, repair wiring between instrument cluster and CPU. If battery voltage is not present, replace security light.

Test No. 3

Replace CPU.

Test No. 4

1) Close and lock all doors. Measure voltage at specified terminals of CPU 20-pin connector and take appropriate action. See DOOR LOCK LINK SWITCHES CIRCUIT TEST table. See Fig. 1.

DOOR LOCK LINK SWITCHES CIRCUIT TEST TABLE

Terminal (Wire Color)		Voltage Reading	Action
2H (Light Green)	....	About 5	..... Check Next Terminal (2F)
(Light Green)	....	Except 5	..... Go To Step 2)
2F (Green/Orange)	...	About 5	..... Check Next Terminal (2J)
2F (Green/Orange)	...	Except 5	..... Go To Step 4)
2J (Green/Black)	....	About 5	..... Replace CPU
2J (Green/Black)	....	Except 5	..... Go To Step 6)

2) Disconnect CPU 20-pin connector. Check continuity between ground and terminal 2H (Light Green wire) of CPU 20-pin connector. If there is continuity, go to step 6). If there is no continuity, replace CPU.

3) Check driver door lock link switch. See DOOR LOCK LINK SWITCH under COMPONENT TESTING. If switch is faulty, replace door lock actuator. If switch is okay, repair wiring between CPU and switch.

4) Disconnect CPU 20-pin connector. Check continuity between ground and terminal 2F (Green/Orange wire) of CPU 20-pin connector. If there is no continuity, replace CPU. If there is continuity, go to next step.

5) Check passenger door lock link switch. See DOOR LOCK LINK SWITCH under COMPONENT TESTING. If switch is faulty, replace door lock actuator. If switch is okay, repair wiring between CPU and switch.

6) Disconnect CPU 20-pin connector. Check continuity between ground and terminal 2J (Green/Black wire) of CPU 20-pin connector. If there is no continuity, replace CPU. If there is continuity, go to next step.

7) Check rear door lock link switches. See DOOR LOCK LINK SWITCH under COMPONENT TESTING. If switch is faulty, replace door lock actuator. If switch is okay, repair wiring between CPU and switch.

Test No. 5

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Replace CPU.

Test No. 6

Replace CPU.

Test No. 7

Replace CPU.

Test No. 8

Turn on headlights. If headlights do not come on, repair headlight circuit. If headlights come on, turn off headlights. Remove CPU from joint box. See Fig. 1. Measure voltage at terminal 3I of joint box connector. If battery voltage is not present, repair wiring between headlight relay and CPU. If battery voltage is present, replace CPU.

Test No. 9

Turn on hazard lights. If hazard lights do not come on, repair hazard lights. If hazard lights come on, turn off hazard lights. Check voltage at terminal 1E (Green/Yellow wire) of CPU 16-pin connector. See Fig. 1. If battery voltage is not present, repair wiring between flasher unit and CPU. If battery voltage is present, replace CPU.

Test No. 10

1) Check ENGINE fuse. If fuse is faulty, replace fuse (repair circuit if shorted). If fuse is okay, remove starter cut relay. Turn ignition on. Measure voltage at terminal "A" (Black/White wire) of starter cut relay connector. See Fig. 6. If battery voltage is not present, repair wiring between ENGINE fuse and starter cut relay.

2) If battery voltage is present, check continuity between terminals "C" and "F" of starter cut relay. If there is continuity, replace starter cut relay. If there is no continuity, apply battery voltage across starter cut relay terminals "A" and "B". Check continuity between terminals "C" and "F".

3) If there is no continuity, replace starter cut relay. If there is continuity, turn ignition switch to LOCK position. Install starter cut relay. Turn ignition on.

4) Measure voltage at terminal 1A (Brown/Yellow wire) of CPU 16-pin connector. If battery voltage is not present, repair wiring between starter cut relay and CPU. If battery voltage is present, replace CPU.

Test No. 11

1) Leave CPU 20-pin connector attached. See Fig. 1. Measure voltage at terminal 2R (Blue/White wire) of CPU 20-pin connector. With door key cylinder held in unlocked position, voltage should be zero. With door key cylinder in any other position, voltage should be 5 volts. If voltage is not as specified, go to step 3).

2) If voltage is as specified, measure voltage at terminal 2L (Yellow/Black wire) of CPU 20-pin connector. With door key cylinder in locked position, voltage should be 2.5 volts. With door key cylinder

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held in unlocked position, voltage should be zero. With door key cylinder in any other position, voltage should be 5 volts. If voltage is not as specified, go to step 6). If voltage is as specified, replace CPU.

3) Disconnect CPU 20-pin connector. With driver door key cylinder held in unlocked position, measure voltage at terminal 2R (Blue/White wire) of CPU 20-pin connector. If there is continuity, replace CPU.

4) If there is no continuity, remove driver door trim panel. Disconnect door key cylinder switch connector. With door key cylinder held in unlocked position, check continuity between door key cylinder switch connector terminals. If there is no continuity, replace driver door key cylinder switch.

5) If there is continuity, check continuity between ground and Black wire terminal of driver door key cylinder switch connector. If there is no continuity, repair wiring between ground and switch. If there is continuity, repair wiring between CPU and switch.

6) Disconnect CPU 20-pin connector. With passenger door key cylinder held in unlocked position, measure voltage at terminal 2L (Yellow/Black wire) of CPU 20-pin connector. If there is continuity, replace CPU.

7) If there is no continuity, remove passenger door trim panel. Disconnect door key cylinder switch connector. With door key cylinder held in unlocked position, check continuity between door key cylinder switch connector terminals. If there is no continuity, replace passenger door key cylinder switch.

8) If there is continuity, check continuity between ground and Black wire terminal of passenger door key cylinder switch connector. If there is no continuity, repair wiring between ground and switch. If there is continuity, repair wiring between CPU and switch.

Test No. 12

1) Disconnect CPU 16-pin connector. See Fig. 1. With trunk key cylinder held in unlocked position, check continuity between terminal 1B (Yellow/Blue wire) of CPU 16-pin connector. If there is continuity, replace CPU.

2) If there is no continuity, disconnect trunk key cylinder switch connector (if necessary, remove trim panel and trunk latch for access). With trunk key cylinder held in unlocked position, check continuity between switch connector terminals. If there is no continuity, replace trunk key cylinder switch.

3) If there is continuity, check continuity between ground and Black wire terminal of trunk key cylinder switch connector. If there is no continuity, repair wiring between trunk key cylinder switch and ground. If there is continuity, repair wiring between CPU and trunk key cylinder switch.

Test No. 13

Replace CPU.

Test No. 14

Replace CPU.

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CPU CONNECTOR PIN VOLTAGES (1) & CONTINUITY (2) TABLE

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Terminal Desired Condition

Joint Box Connectors

3H (Passenger Door Switch)

Door Open Yes

Door Closed No

3M (Driver Door Switch)

Door Open Yes

Door Closed No

3N (Key Reminder Switch)

Key Inserted Battery Voltage

Key Removed No Voltage

CPU 16-Pin Connector

1A (Starter Cut Relay)

Ignition On Battery Voltage

Ignition Off No Voltage

1B (Trunk Key Cylinder Switch)

Locked No Continuity

Unlocked (3) Continuity

1D (Trunk Switch)

Trunk Open Continuity

Trunk Closed No Continuity

1E (Hazard Switch)

Hazard Switch On No Voltage

Hazard Switch Off Battery Voltage

1F (Hood Switch)

Hood Open Continuity

Hood Closed No Continuity

CPU 20-Pin Connector

2D (Rear Door Switch)

Door Open Yes

Door Closed No

2F (Passenger Door Lock Link Switch)

Locked About 5 Volts

Unlocked No Voltage

2H (Driver Door Lock Link Switch)

Locked About 5 Volts

Unlocked No Voltage

2J (Rear Door Lock Link Switch)

Locked About 5 Volts

Unlocked No Voltage

2L (Passenger Door Key Cylinder Switch)

Unlocked (3) 0 Volts

Locked (4) 2.5 Volts

Neutral 5 Volts

2R (Driver Door Key Cylinder Switch)

Unlocked (3) No Voltage

Other 5 Volts

2M (Security Light), All Conditions Battery Voltage

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20 (Horn Relay)

Horn Sounding	No Voltage
Alarm	No Voltage
Other	Battery Voltage

- (1) - Measure voltage with CPU connector connected and ignition on, unless specified otherwise.
- (2) - Check continuity with ignition off and CPU connector disconnected.
- (3) - Hold key cylinder in unlocked position.
- (4) - Hold key cylinder in locked position.

$\overline{A_1 A_2 A_3 A_4 A_5 A_6 A_7 A_8 A_9 A_{10} A_{11} A_{12} A_{13} A_{14} A_{15} A_{16} A_{17} A_{18} A_{19} A_{20} A_{21} A_{22} A_{23} A_{24} A_{25} A_{26} A_{27} A_{28} A_{29} A_{30} A_{31} A_{32} A_{33} A_{34} A_{35} A_{36} A_{37} A_{38} A_{39} A_{40} A_{41} A_{42} A_{43} A_{44} A_{45} A_{46} A_{47} A_{48} A_{49} A_{50} A_{51} A_{52} A_{53} A_{54} A_{55} A_{56} A_{57} A_{58} A_{59} A_{60} A_{61} A_{62} A_{63} A_{64} A_{65} A_{66} A_{67} A_{68} A_{69} A_{70} A_{71} A_{72} A_{73} A_{74} A_{75} A_{76} A_{77} A_{78} A_{79} A_{80} A_{81} A_{82} A_{83} A_{84} A_{85} A_{86} A_{87} A_{88} A_{89} A_{90} A_{91} A_{92} A_{93} A_{94} A_{95} A_{96} A_{97} A_{98} A_{99} A_{100}$

COMPONENT TESTING

Door Switch

Remove door switch. Check continuity between switch connector terminal and switch body. With door switch button pressed (door closed), there should be no continuity. With door switch button released (door open), there should be continuity. If continuity is not as specified, replace switch.

Door Key Cylinder Switch (Driver Door)

Remove door trim panel. Disconnect door key cylinder switch connector. Check continuity between switch connector terminals. With door key cylinder held in unlocked position, there should be continuity. With door key cylinder held in locked position, there should be no continuity. If continuity is not as specified, replace door key cylinder.

Door Key Cylinder Switch (Passenger Door)

1) Remove door trim panel. Disconnect door key cylinder switch connector. With door key cylinder held in unlocked position, check continuity between switch connector terminals. If there is no continuity, replace door key cylinder switch.

2) If there is continuity, hold door key cylinder in locked position and measure resistance between switch connector terminals. If resistance is 950-1050 ohms, switch is okay. If resistance is not 950-1050 ohms, replace door key cylinder.

Door Lock Link Switch

1) Door lock link switch is part of door lock actuator. Remove door trim. Disconnect door lock actuator 4-pin connector. Check continuity between specified terminals of door lock actuator connector. See IDENTIFYING DOOR LOCK LINK SWITCH TERMINALS table.

2) With door locked, there should be no continuity. With door unlocked, there should be continuity. If continuity is as specified, door lock link switch is okay. If continuity is not as specified, replace door lock actuator.

IDENTIFYING DOOR LOCK LINK SWITCH TERMINALS TABLE

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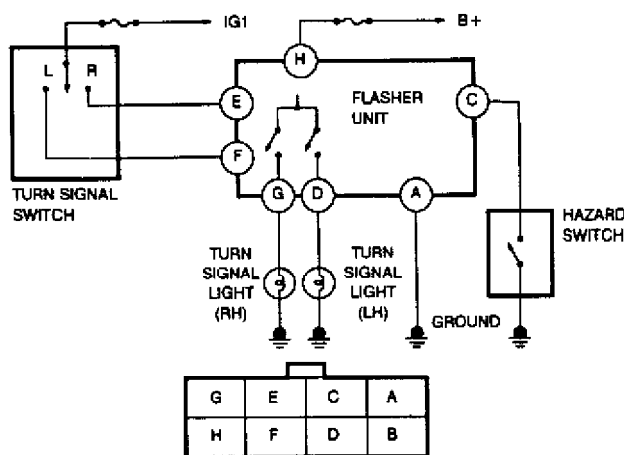
Application

Wire Terminals

Driver Door Light Green & Black
Passenger Door Green/Orange & Black
Rear Doors Green/Black & Black
AA

Flasher Unit

If turn signal and/or hazard flasher operation is incorrect, check for faults in circuits leading to flasher unit. See Fig. 3. If no faults are found, replace flasher unit.

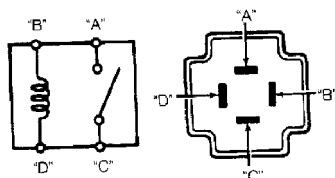


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Fig. 3: Flasher Unit Circuit Diagram/Connector Terminals
Courtesy of Mazda Motors Corp.

Horn Relay

Remove relay. Check continuity between relay terminals "A" and "C". See Fig. 4. If there is continuity, replace relay. If there is no continuity, apply battery voltage across relay terminals "B" and "D". Check continuity between terminals "A" and "C". If there is continuity, relay is okay. If there is no continuity, replace relay.



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Fig. 4: Horn Relay Terminal ID
Courtesy of Mazda Motors Corp.

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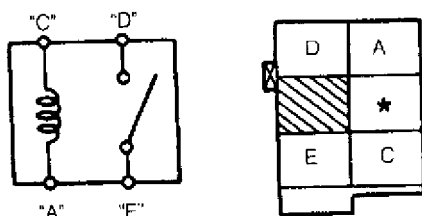
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Headlight Relay

Remove relay. Check continuity between relay terminals "D" and "E". See Fig. 5. If there is continuity, replace relay. If there is no continuity, apply battery voltage across relay terminals "A" and "C". Check continuity between terminals "D" and "E". If there is continuity, relay is okay. If there is no continuity, replace relay.

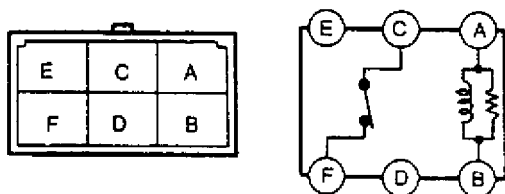


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Fig. 5: Headlight Relay Terminal ID
Courtesy of Mazda Motors Corp.

Starter Cut Relay

Remove relay. Check continuity between relay terminals "C" and "F". See Fig. 6. If there is continuity, replace relay. If there is no continuity, apply battery voltage across relay terminals "A" and "B". Check continuity between terminals "C" and "F". If there is continuity, relay is okay. If there is no continuity, replace relay.



93F82524

Fig. 6: Starter Cut Relay Terminal ID
Courtesy of Mazda Motors Corp.

Trunk Switch

Trunk switch is inside trunk striker assembly. Disconnect trunk switch connector (if necessary, remove trim panel and trunk latch for access). Check continuity between switch connector terminals. With switch lever pushed (trunk closed), there should be no continuity. With switch lever released (trunk open), there should be continuity. If continuity is not as specified, replace trunk switch.

Trunk Key Cylinder Switch

Disconnect trunk key cylinder switch electrical connector in trunk lid. Check continuity between switch connector terminals. With trunk key cylinder held in unlocked position, there should be continuity. With trunk key cylinder in any other position, there

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should be no continuity. If continuity is not as specified, replace switch.

Hood Switch

Disconnect hood switch connector near hood latch. Check continuity between switch connector terminals. With switch lever released (hood open), there should be continuity. With switch lever pushed (hood closed), there should be no continuity. If continuity is not as specified, replace switch.

Key Reminder Switch

Remove steering column cover. Disconnect key reminder switch connector. Check continuity between switch connector terminals. With ignition key inserted, there should be continuity. With ignition key removed, there should be no continuity. If continuity is not as specified, replace switch.

WIRING DIAGRAMS

NOTE: Refer to WIRING DIAGRAMS article in the WIRING DIAGRAMS section.

END OF ARTICLE