

2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata

2005 MAZDA

MX-5 Miata

BUZZERS, RELAYS & TIMERS

BUZZERS, RELAYS & TIMERS LOCATION

Component	Location
A/C Relay	At left front of engine compartment. See Fig. 21 .
Audio Relay	Behind left side of dash. See Fig. 12 .
Blower Relay	Behind left side of dash. See Fig. 21 .
Condenser Fan Relay	At left front of engine compartment. See Fig. 21 .
Cooling Fan Relay	At right rear of engine compartment. See Fig. 32 .
Front Fog Light Relay	Behind left side of dash. See Fig. 26 .
Fuel Pump Relay	Behind left side of dash. See Fig. 33 .
Headlight Relay	At right rear of engine compartment. See Fig. 28 .
Horn Relay	In main fuse block. See Fig. 22 .
Main Relay	In main fuse block. See Fig. 40 .
Rear Window Defroster Relay	Behind left side of dash. See Fig. 17 .
TNS Relay	At right rear of engine compartment. See Fig. 28 .
Trunk Lid Opener Relay	Lower rear center of vehicle. See Fig. 2 .

CIRCUIT PROTECTION DEVICES

CIRCUIT PROTECTION DEVICES LOCATION

Component	Location
Fuse Block	Behind left side of dash. See Fig. 4 .
Fusible Link	At right rear of engine compartment, behind main fuse block. See Fig. 7 .
Main Fuse	At right rear of engine compartment.
Main Fuse Block	At right rear of engine compartment. See Fig. 1 .
Thermal Protector	At left front of engine compartment.

CONTROL UNITS

CONTROL UNITS LOCATION

Component	Location
ABS Hydraulic Unit/Control Module	At right rear of engine compartment. See Fig. 7 .
Cruise Control Module	Behind left side of dash. See Fig. 6 .
Door Lock Control Module	Behind left side of dash. See Fig. 9 .
DRL Control Module	Behind left side of dash. See Fig. 25 .
Flasher Control Module	Behind left side of dash. See Fig. 24 .

2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata

Immobilizer Unit	Behind lower left side of dash. See Fig. 3 .
Key Interlock Unit	Behind left end of dash. See Fig. 18 .
Keyless Control Module	Behind right side of dash. See Fig. 15 .
PCM	Behind left side of dash. See Fig. 34 .
SAS Control Module	Behind upper center of dash. See Fig. 4 .
Transmission Control Module	At left kick panel. See Fig. 20 .

MOTORS

MOTORS LOCATION

Component	Location
ABS Hydraulic Unit/Control Module	At right rear of engine compartment. See Fig. 7 .
Blower Motor	Integral to blower unit, behind right side of dash. See Fig. 21 .
Condenser Fan	Front of engine compartment. See Fig. 21 .
Cooling Fan Motor	Behind radiator. See Fig. 32 .
EVAP System Leak Detection Pump	Under rear center of vehicle. See Fig. 38 .
Fuel Pump Unit	Under rear center of vehicle. See Fig. 33 .
Power Antenna	Left rear of vehicle. See Fig. 11 .
Power Window Regulator (Left)	In left door. See Fig. 10 .
Power Window Regulator (Right)	In right door. See Fig. 10 .
Starter	Left side of engine. See Fig. 39 .
Trunk Lid Lock Actuator	At lower rear center of vehicle. See Fig. 2 .
Windshield Washer Motor	On washer fluid reservoir. See Fig. 29 .
Windshield Wiper Motor	On right side of firewall. See Fig. 29 .

SENDING UNITS & SENSORS

SENDING UNITS & SENSORS LOCATION

Component	Location
ABS Wheel Speed Sensor (Left Front)	At left front wheel. See Fig. 7 .
ABS Wheel Speed Sensor (Left Rear)	At left rear wheel. See Fig. 7 .
ABS Wheel Speed Sensor (Right Front)	At right front wheel. See Fig. 7 .
ABS Wheel Speed Sensor (Right Rear)	At right rear wheel. See Fig. 7 .
Brake Fluid Level Sensor	In brake fluid reservoir. See Fig. 31 .
Camshaft Position Sensor	On right rear of engine. See Fig. 35 .
Crankshaft Position Sensor	On front of engine. See Fig. 35 .
Crash Zone Sensor	At front center of engine compartment. See Fig. 5 .
EGR Boost Sensor	At right side of engine compartment. See Fig. 36 .
Engine Coolant Temperature Sensor	On top rear of engine. See Fig. 30 .
Fuel Gauge Sender Unit	In fuel tank. See Fig. 30 .
Heated Oxygen Sensor (Front)	On exhaust system, on left side of engine. See Fig. 38 .

2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata

Heated Oxygen Sensor (Rear)	On exhaust system, near rear of engine. See Fig. 38 .
Input/Turbine Speed Sensor	On transmission. See Fig. 20 .
Intake Air Temperature Sensor	At left front of engine compartment. See Fig. 36 .
Knock Sensor	On right front of engine. See Fig. 37 .
Mass Air Flow Sensor	Near left front corner of engine. See Fig. 35 .
Output Speed Sensor	On transmission. See Fig. 20 .
Throttle Position Sensor	On right front of engine. See Fig. 36 .
Vehicle Speedometer Sensor (M/T)	On transmission. See Fig. 30 .

SOLENOIDS & SOLENOID VALVES

SOLENOIDS & SOLENOID VALVES LOCATION

Component	Location
Cruise Actuator	At left side of engine compartment. See Fig. 6 .
Door Lock Actuator (Left)	In left door. See Fig. 9 .
Door Lock Actuator (Right)	In right door. See Fig. 9 .
EC-A/T Solenoid Valve	On transmission. See Fig. 20 .
EGR Boost Sensor Solenoid Valve	At right rear of engine compartment. See Fig. 38 .
EGR Valve	Near right front of engine. See Fig. 35 .
Fuel Injector No. 1	On top of engine. See Fig. 34 .
Fuel Injector No. 2	On top of engine. See Fig. 34 .
Fuel Injector No. 3	On top of engine. See Fig. 34 .
Fuel Injector No. 4	On top of engine. See Fig. 34 .
Idle Air Control Valve	On right front of engine. See Fig. 35 .
Key Interlock Solenoid	Behind left side of dash. See Fig. 18 .
Magnetic Clutch	Left front of engine, on A/C compressor. See Fig. 21 .
Oil Control Valve (OCV)	On right front of engine. See Fig. 37 .
Purge Solenoid Valve	At right side of engine compartment. See Fig. 38 .
Shift Lock Actuator	Near base of gear selector lever. See Fig. 19 .
VTCS Solenoid Valve	At right rear of engine compartment. See Fig. 35 .

SWITCHES

SWITCHES LOCATION

Component	Location
Back-Up Light Switch (M/T)	On transmission. See Fig. 23 .
Brake Switch	Behind left side of dash. See Fig. 6 .
Buckle Switch	On driver's seat belt buckle. See Fig. 31 .
Clutch Switch	Behind left side of dash. See Fig. 37 .
Door Key Cylinder Switch (Left)	In left door. See Fig. 9 .
Door Key Cylinder Switch (Right)	In right door. See Fig. 9 .

2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata

Door Switch (Left)	On left "B" pillar. See Fig. 16 .
Door Switch (Right)	On right "B" pillar. See Fig. 16 .
Key Reminder Switch	On steering column. See Fig. 30 .
Neutral Switch	On transmission. See Fig. 37 .
Oil Pressure Switch	On left side of engine. See Fig. 31 .
Parking Brake Switch	At base of parking brake lever. See Fig. 31 .
Power Steering Pressure Switch	Near left front of engine. See Fig. 37 .
Refrigerant Pressure Switch	At right front of engine compartment. See Fig. 21 .
Seat Belt Switch	Inside driver's seat belt buckle.
Starter Interlock Switch (M/T)	Behind left side of dash. See Fig. 39 .
Thermoswitch	Behind right center of dash. See Fig. 21 .
Transmission Range Switch (A/T)	On transmission. See Fig. 20 .
Trunk Compartment Light Switch	Left rear of trunk. See Fig. 27 .
VTCS Vacuum Switch	At right side of engine compartment. See Fig. 37 .

MISCELLANEOUS

MISCELLANEOUS LOCATION

Component	Location
Aeroboard Speaker Amplifier (Left)	Left rear of vehicle. See Fig. 14 .
Aeroboard Speaker Amplifier (Right)	Right rear of vehicle. See Fig. 14 .
Coil (Immobilizer)	Inside of steering column. See Fig. 3 .
Condenser (Ignition)	At rear of engine. See Fig. 34 .
Condenser (Rear Window Defogger)	Near lower rear of driver's door opening. See Fig. 17 .
Data Link Connector	At left rear of engine compartment. See Fig. 1 .
Data Link Connector No. 2	At lower left side of dash. See Fig. 1 .
Detachable Hardtop Filament	At rear of hardtop. See Fig. 17 .
Driver Side Seat Belt Pretensioner	Near base of left "B" pillar. See Fig. 5 .
Front Audio Amplifier	Behind lower center of dash. See Fig. 13 .
Generator	Left front of engine. See Fig. 39 .
Horn (Left & Right)	Behind front bumper. See Fig. 22 .
Ignition Coil No. 1	On top of engine. See Fig. 34 .
Ignition Coil No. 2	On top of engine. See Fig. 34 .
Passenger Side Seat Belt Pretensioner	Near base of right "B" pillar. See Fig. 5 .
Resistor (Shift Interlock)	Behind left side of dash. See Fig. 18 .

CONNECTORS

CONNECTORS LOCATION

Component	Location
X-04 (54 Pin)	Below left side of dash. See Fig. 1 .

2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata

X-05 (34 Pin)	Below left side of dash. See Fig. 1 .
X-06 (18 Pin)	At right side of dash. See Fig. 4 .
X-07 (34 Pin)	Left rear of vehicle. See Fig. 2 .
X-08 (21 Pin)	Below main fuse block. See Fig. 1 .
X-09 (15 Pin)	At right rear of engine compartment. See Fig. 20 .
X-10 (18 Pin)	Near left "A" pillar. See Fig. 8 .
X-11 (18 Pin)	Near right "A" pillar. See Fig. 8 .
X-12 (2 Pin)	At left kick panel. See Fig. 16 .
X-14 (Black, 8 Pin)	On front of engine. See Fig. 30 .
X-15 (Gray, 4 Pin)	On front of engine. See Fig. 34 .
X-17 (4 Pin)	At right rear quarterpanel. See Fig. 23 .

GROUNDS

GROUNDS LOCATION

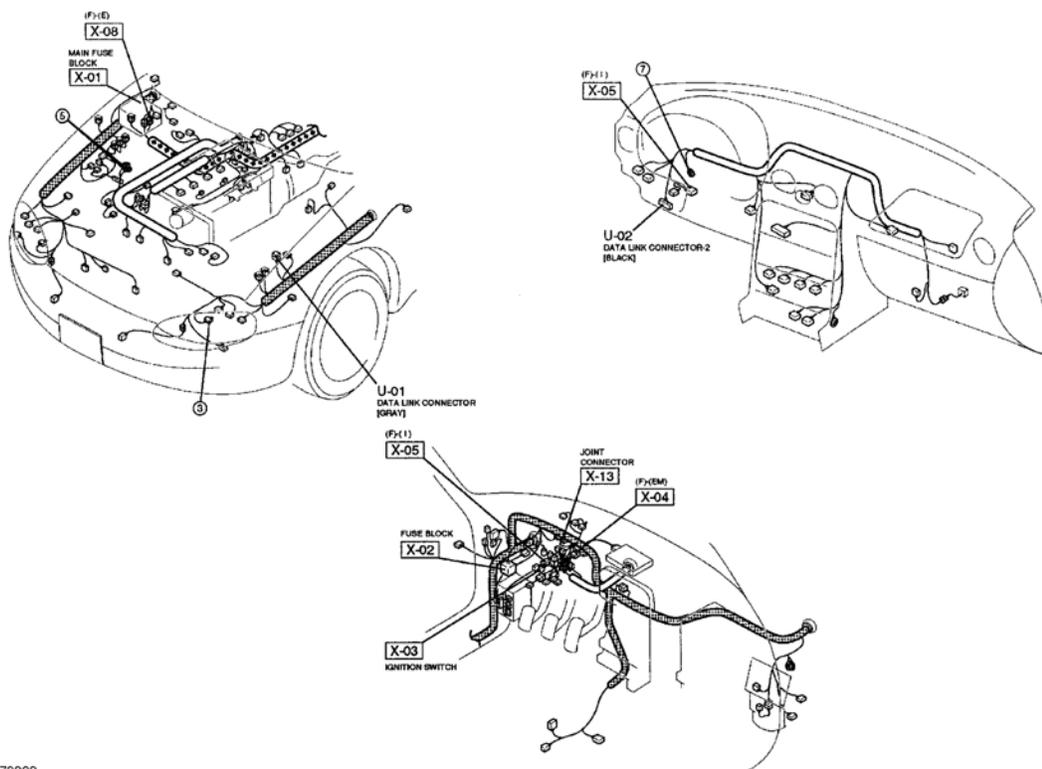
Component	Location
G1	Behind right headlight. See Fig. 9 .
G2	Behind left side of dash. See Fig. 3 .
G3	Behind left headlight. See Fig. 1 .
G4	At right kick panel. See Fig. 7 .
G5	At right side of engine compartment. See Fig. 1 .
G6	Below center of dash. See Fig. 14 .
G7	Behind left side of dash. See Fig. 1 .
G8	At right sail panel. See Fig. 2 .
G9	At rear of engine. See Fig. 34 .

COMPONENT LOCATION GRAPHICS

NOTE: Figures may show multiple component locations. Refer to appropriate table for proper figure references.

2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata

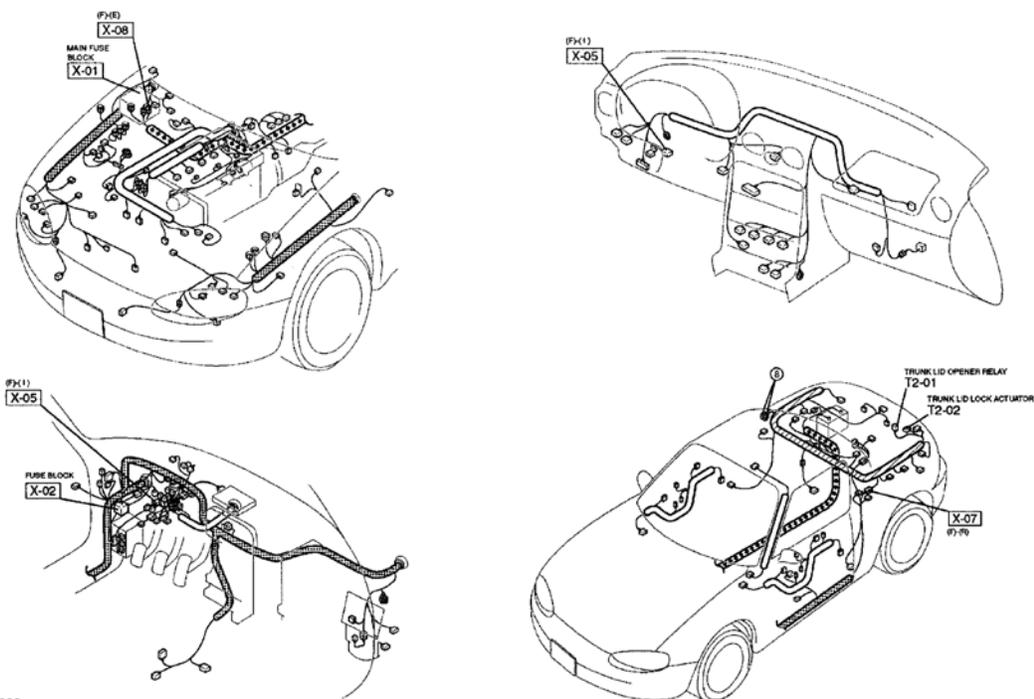


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Fig. 1: Data Link Connector
Courtesy of MAZDA MOTORS CORP.

2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata

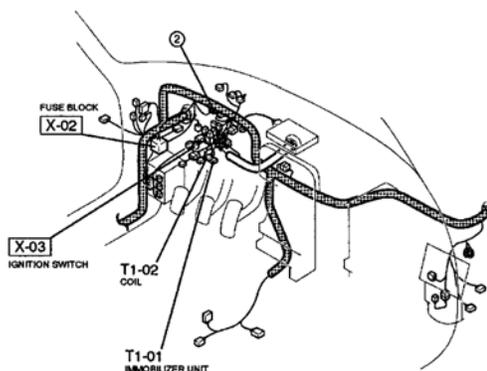
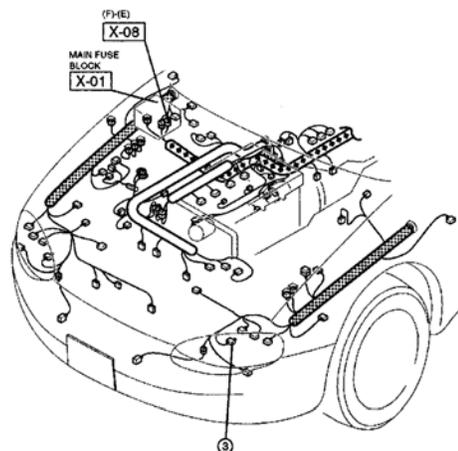


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Fig. 2: Trunk Lid Opener
Courtesy of MAZDA MOTORS CORP.

2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata



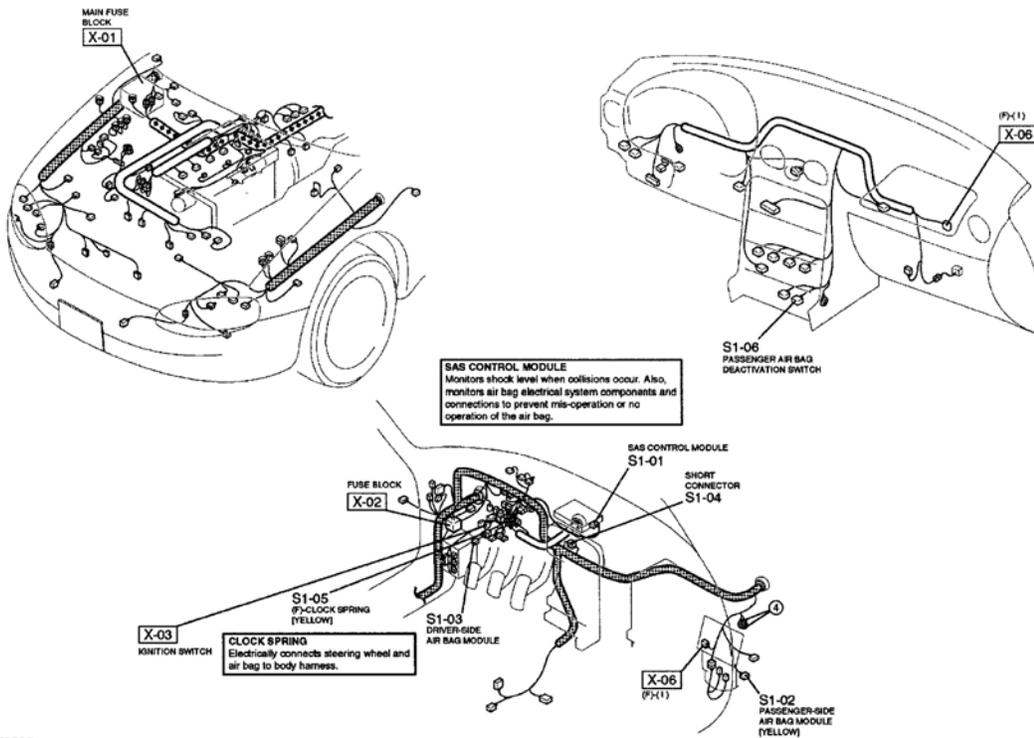
IMMOBILIZER UNIT
The immobilizer system prevents the engine from starting even if ignition switch is short-circuited. As a result, it keeps the vehicle from stolen.

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Fig. 3: Immobilizer System
Courtesy of MAZDA MOTORS CORP.

2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata



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Fig. 4: Air Bag System
Courtesy of MAZDA MOTORS CORP.

2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata

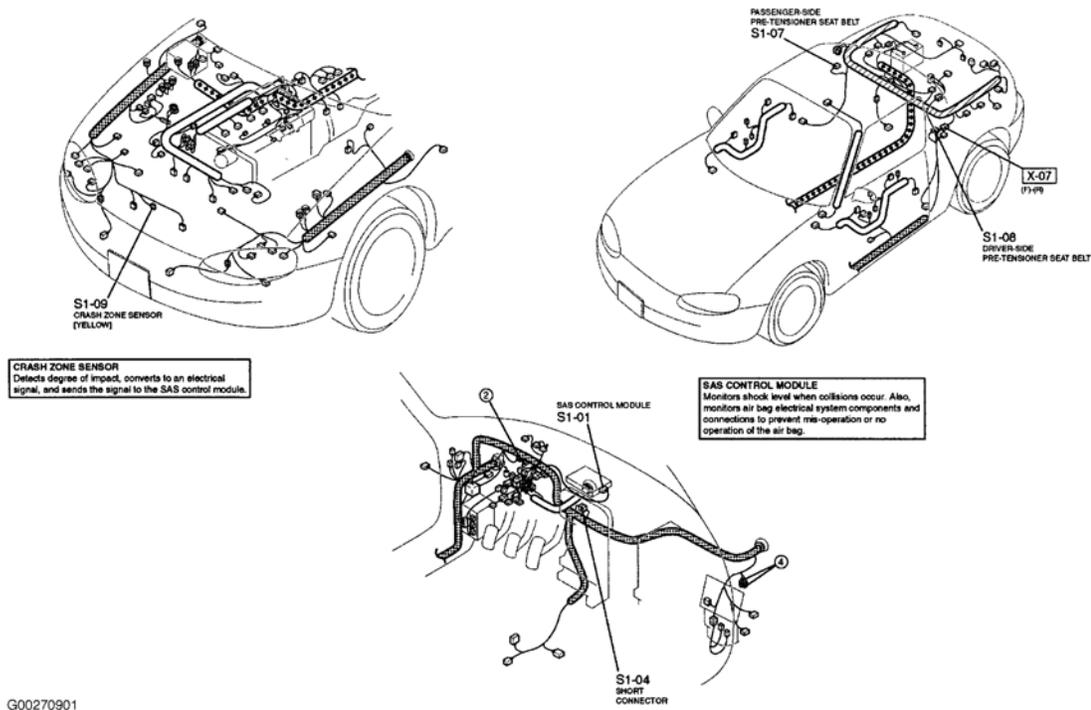
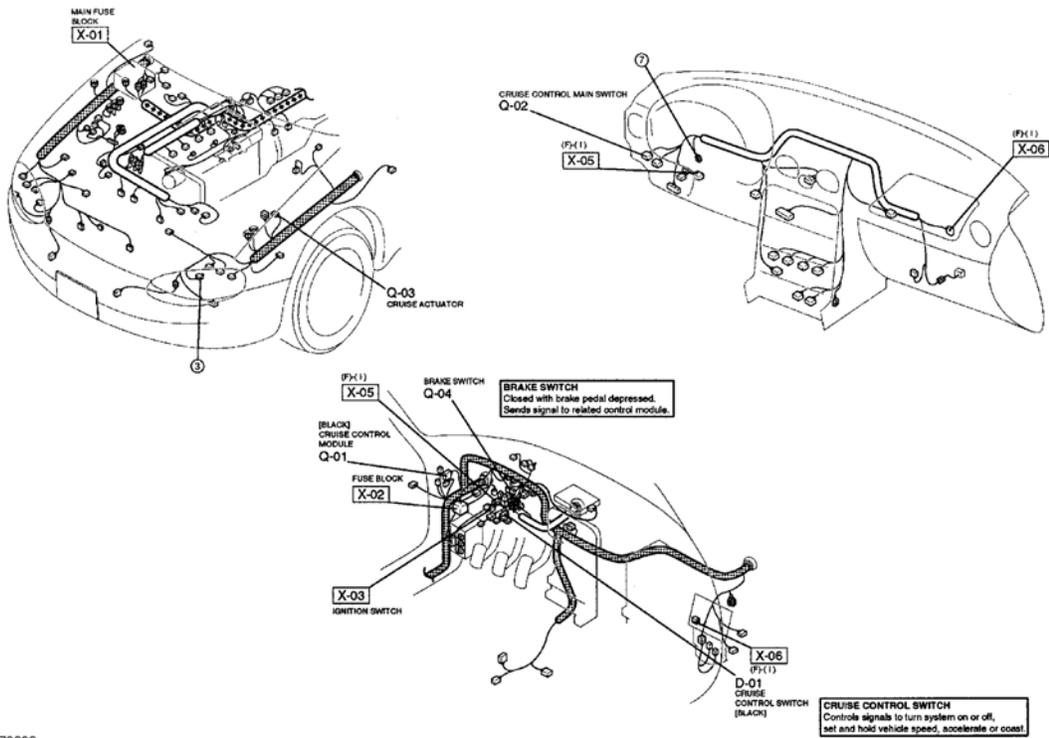


Fig. 5: Air Bag System
Courtesy of MAZDA MOTORS CORP.

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2005 MAZDA MX-5 Miata

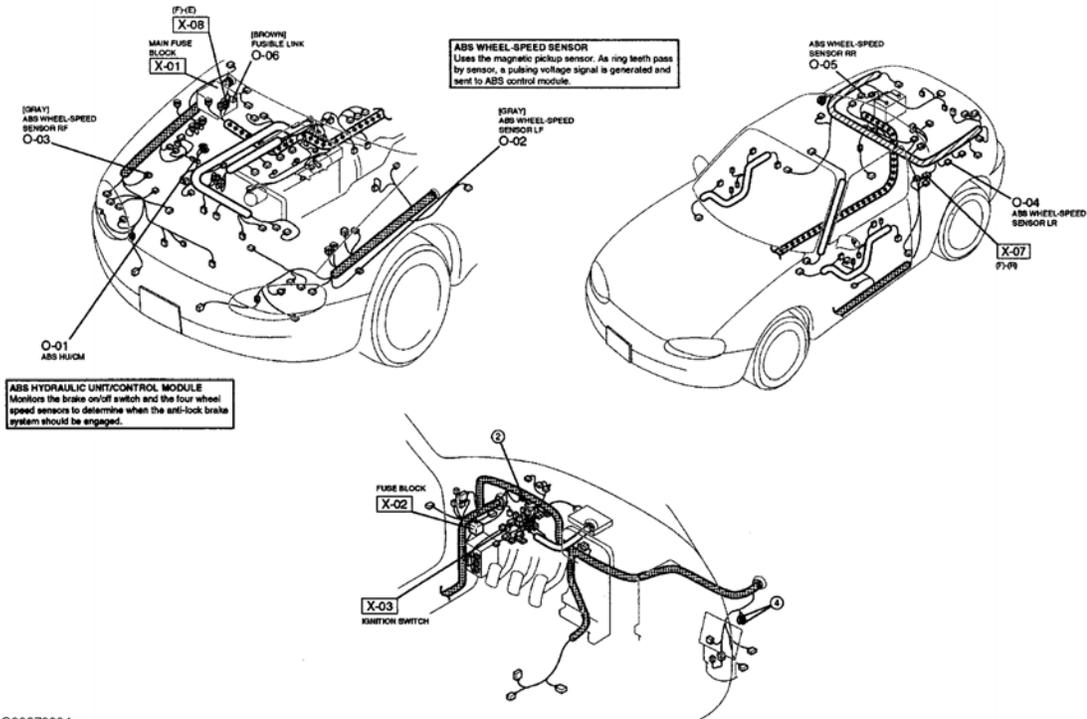


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Fig. 6: Cruise Control
Courtesy of MAZDA MOTORS CORP.

2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata

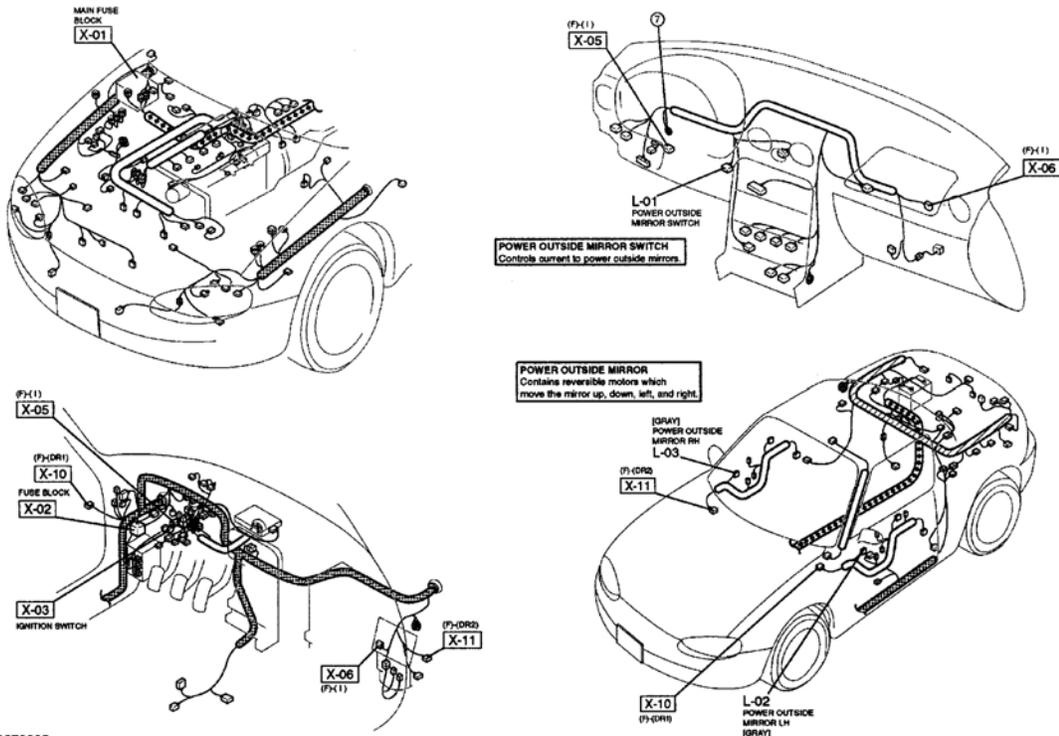


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Fig. 7: Anti-Lock Brake System
Courtesy of MAZDA MOTORS CORP.

2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata

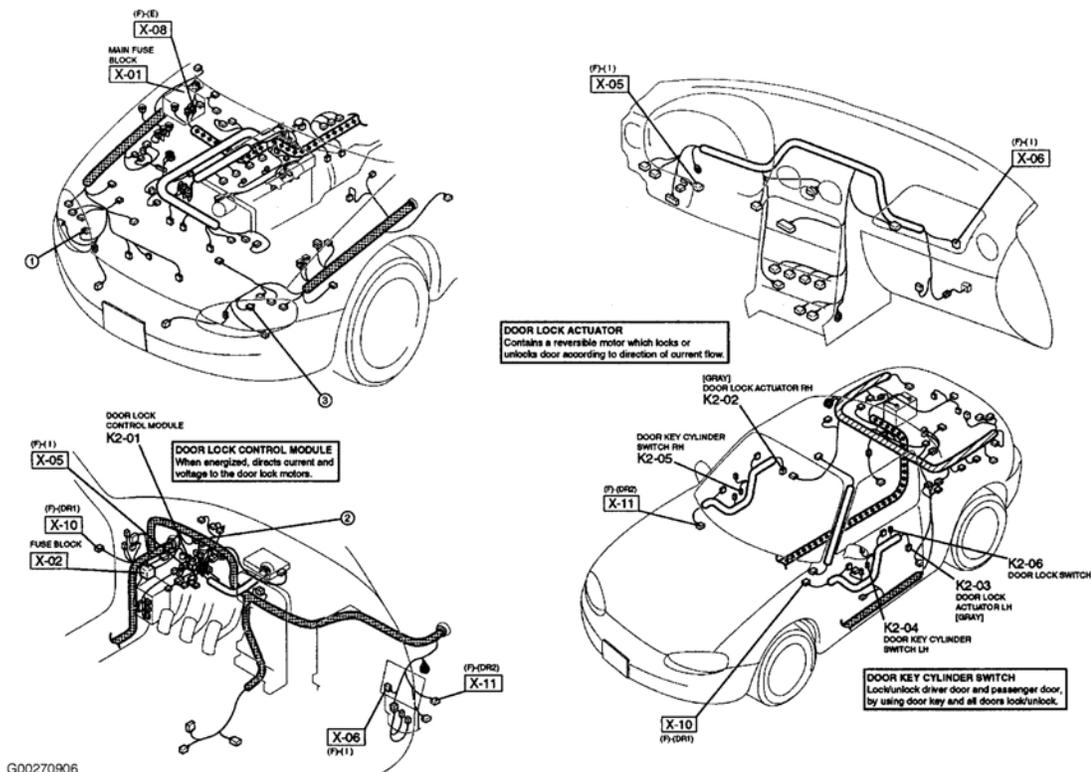


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Fig. 8: Power Mirrors
Courtesy of MAZDA MOTORS CORP.

2005 Mazda MX-5 Miata

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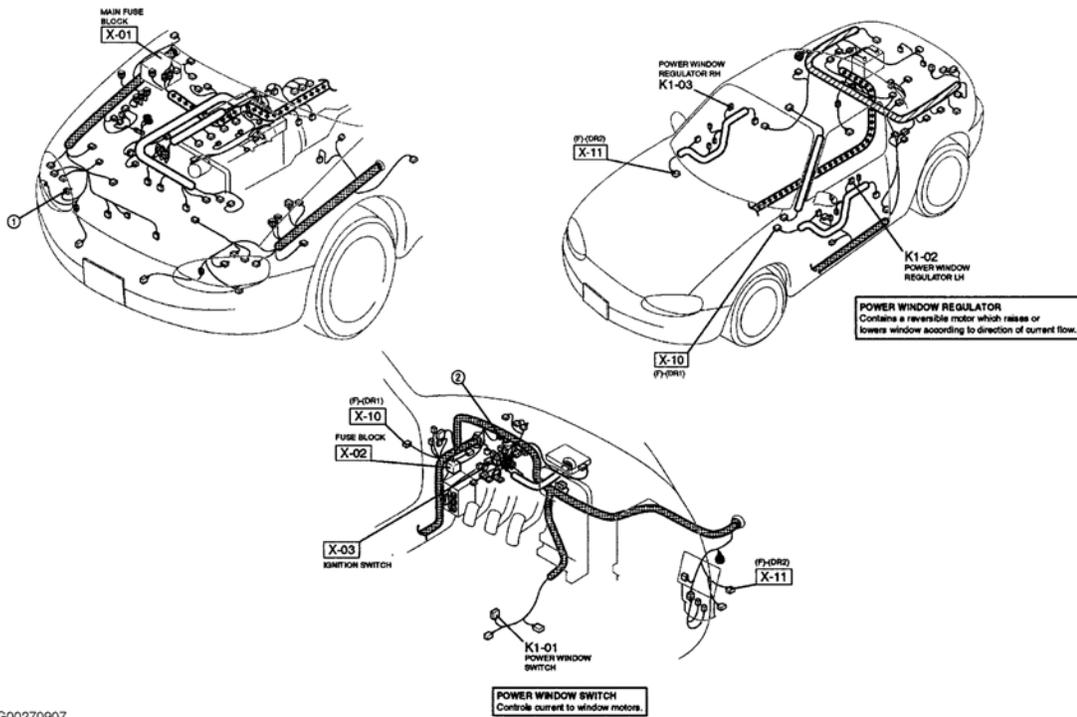


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Fig. 9: Door Locks
Courtesy of MAZDA MOTORS CORP.

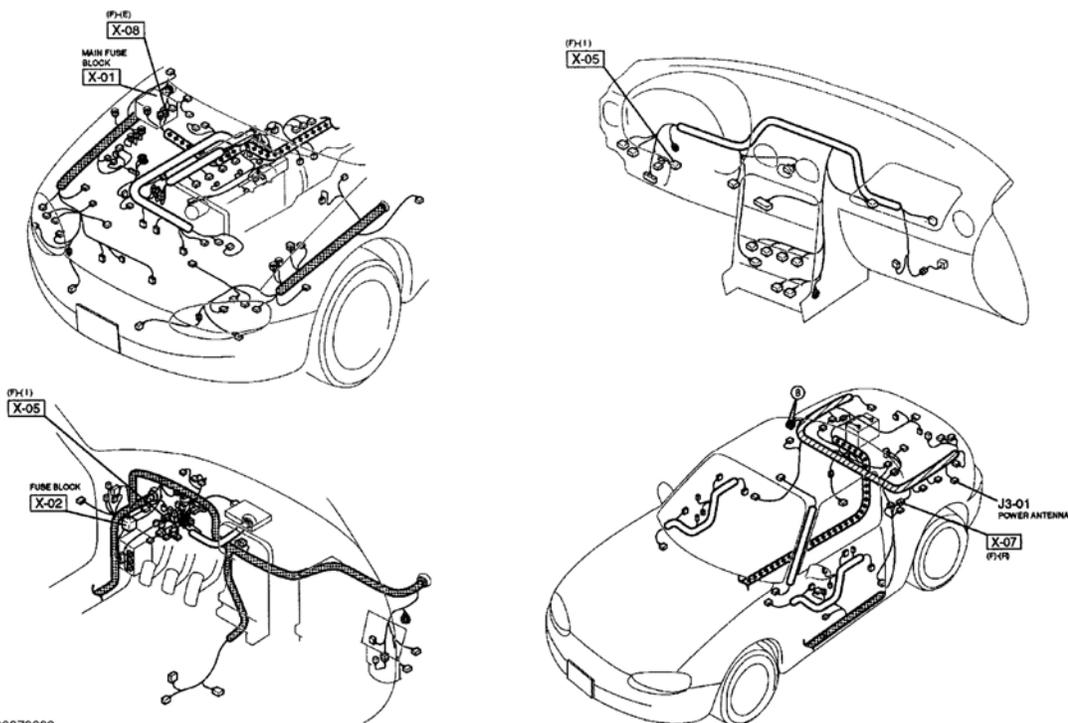
2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata



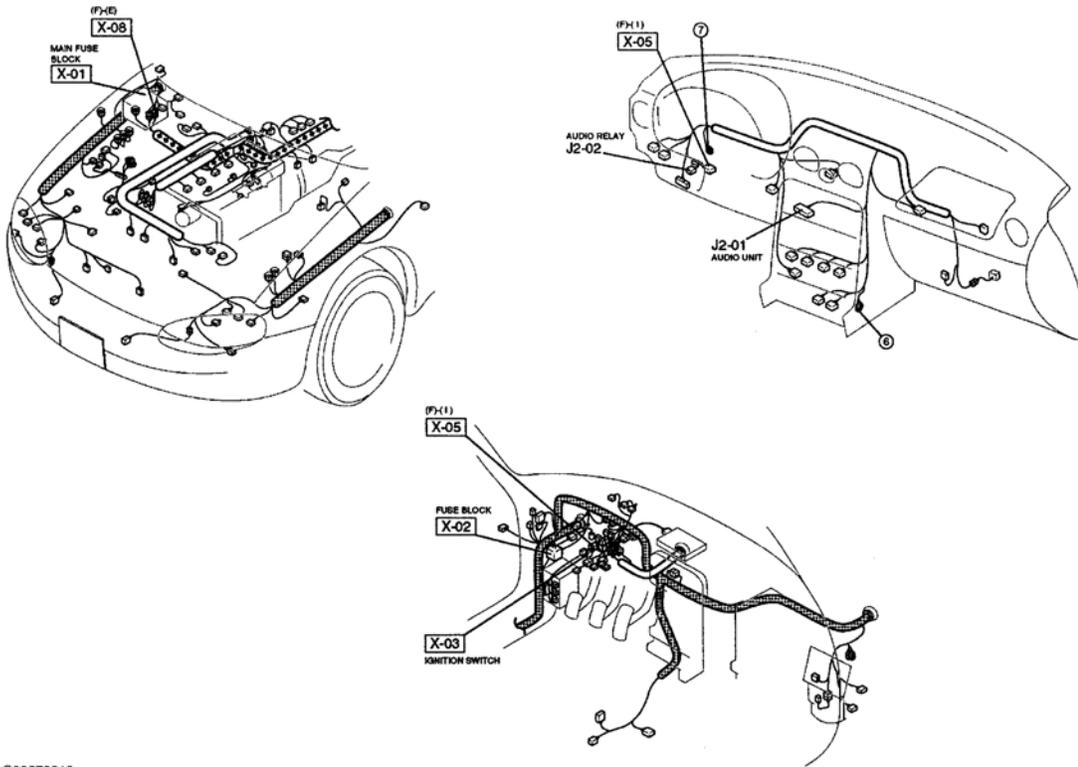
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Fig. 10: Power Windows
Courtesy of MAZDA MOTORS CORP.



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Fig. 11: Power Antenna
Courtesy of MAZDA MOTORS CORP.

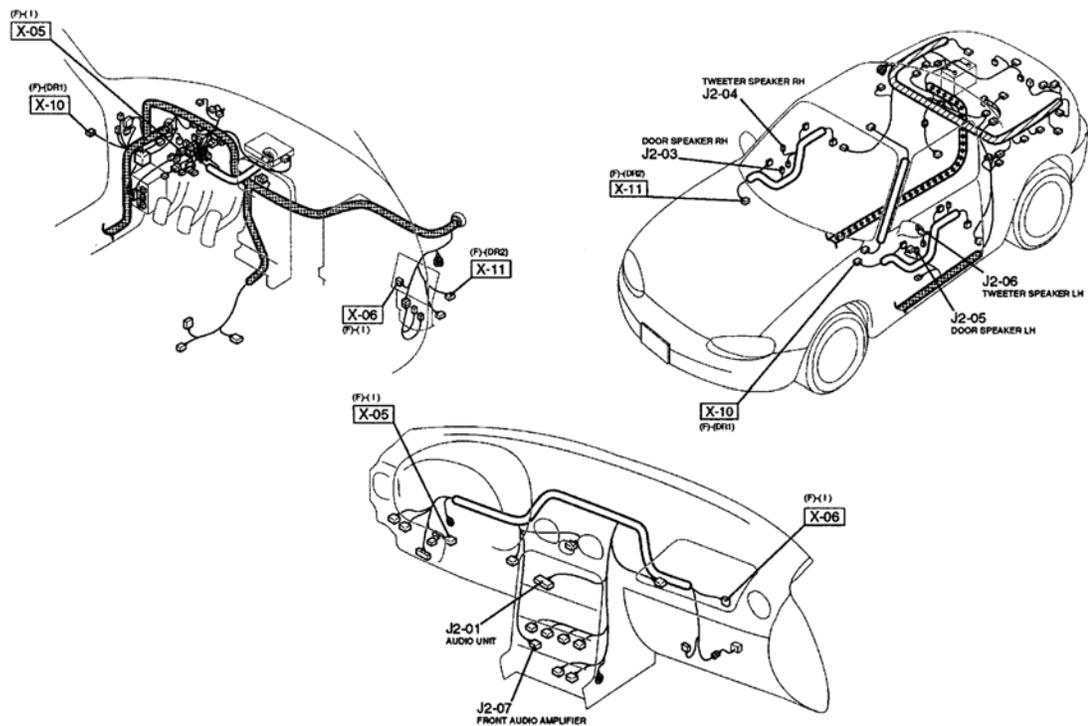


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Fig. 12: Audio (W/Bose)
Courtesy of MAZDA MOTORS CORP.

2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata

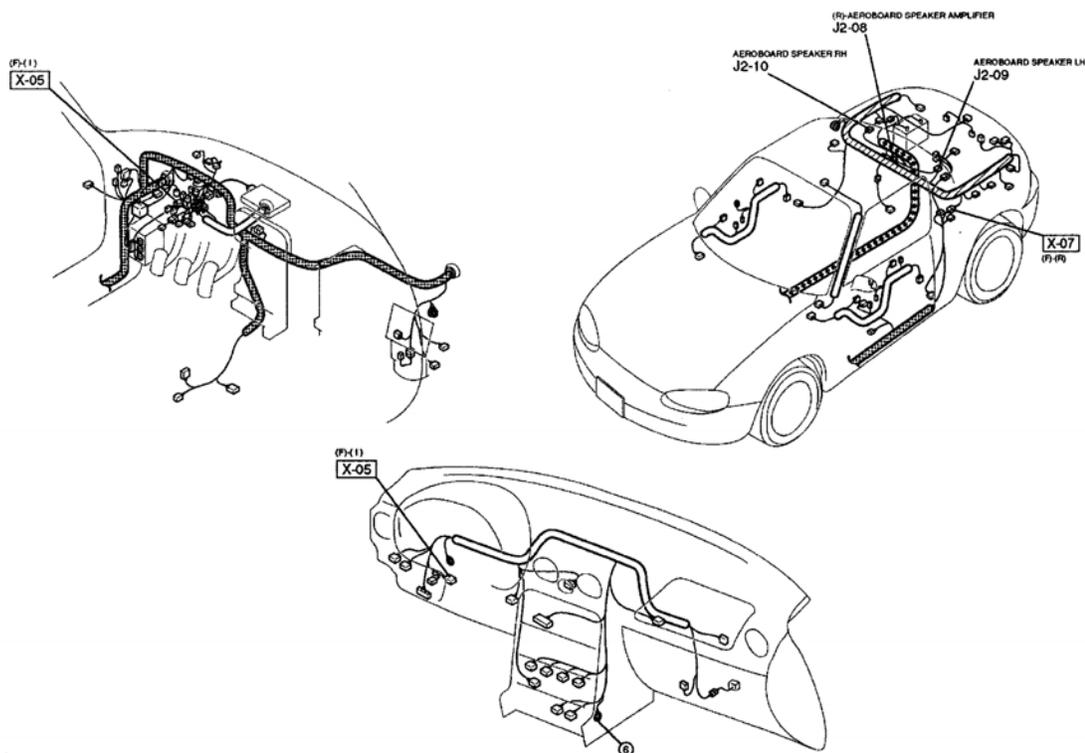


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Fig. 13: Audio (W/Bose)
Courtesy of MAZDA MOTORS CORP.

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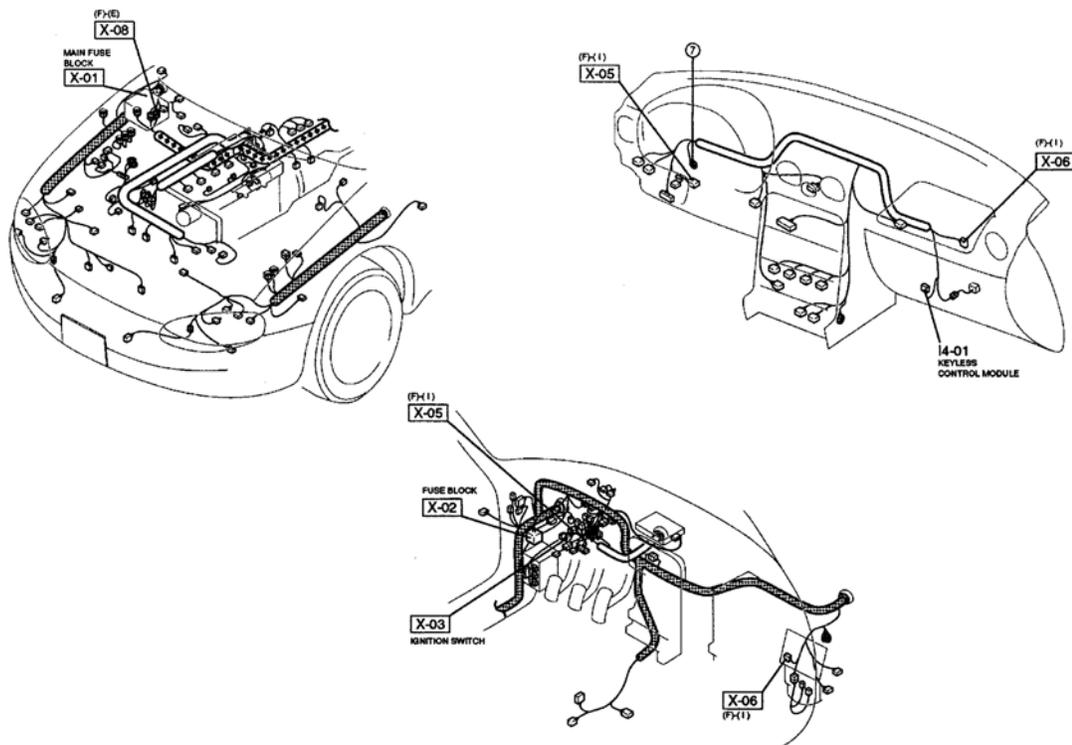


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Fig. 14: Audio (W/Bose)
Courtesy of MAZDA MOTORS CORP.

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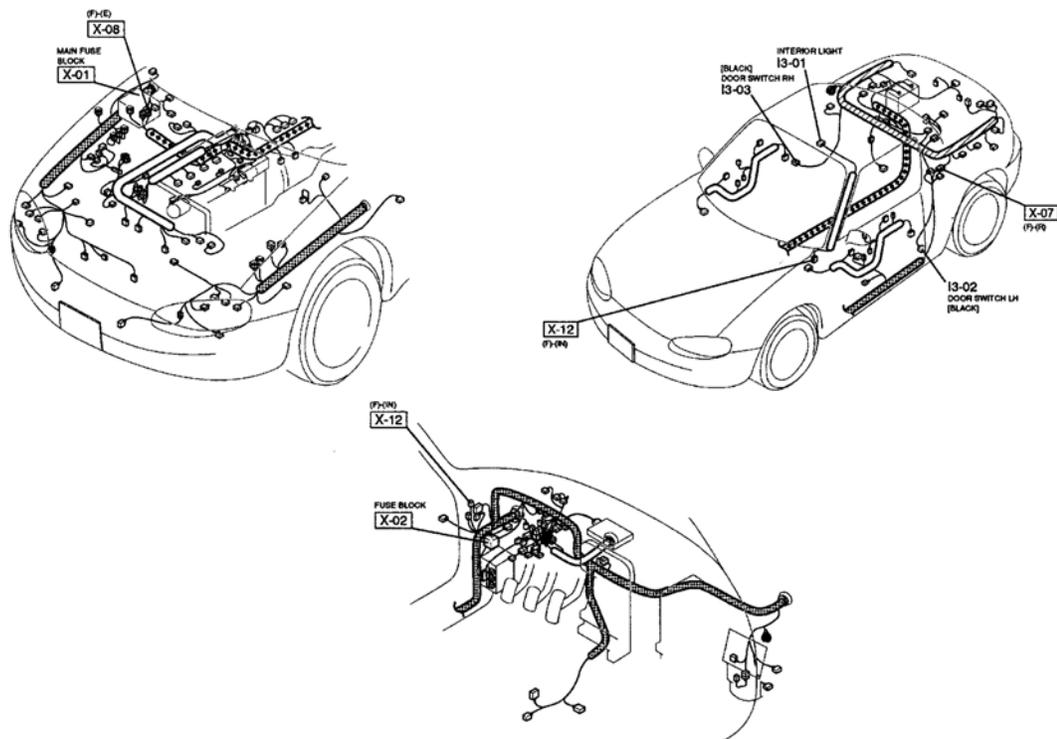


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Fig. 15: Keyless Entry
Courtesy of MAZDA MOTORS CORP.

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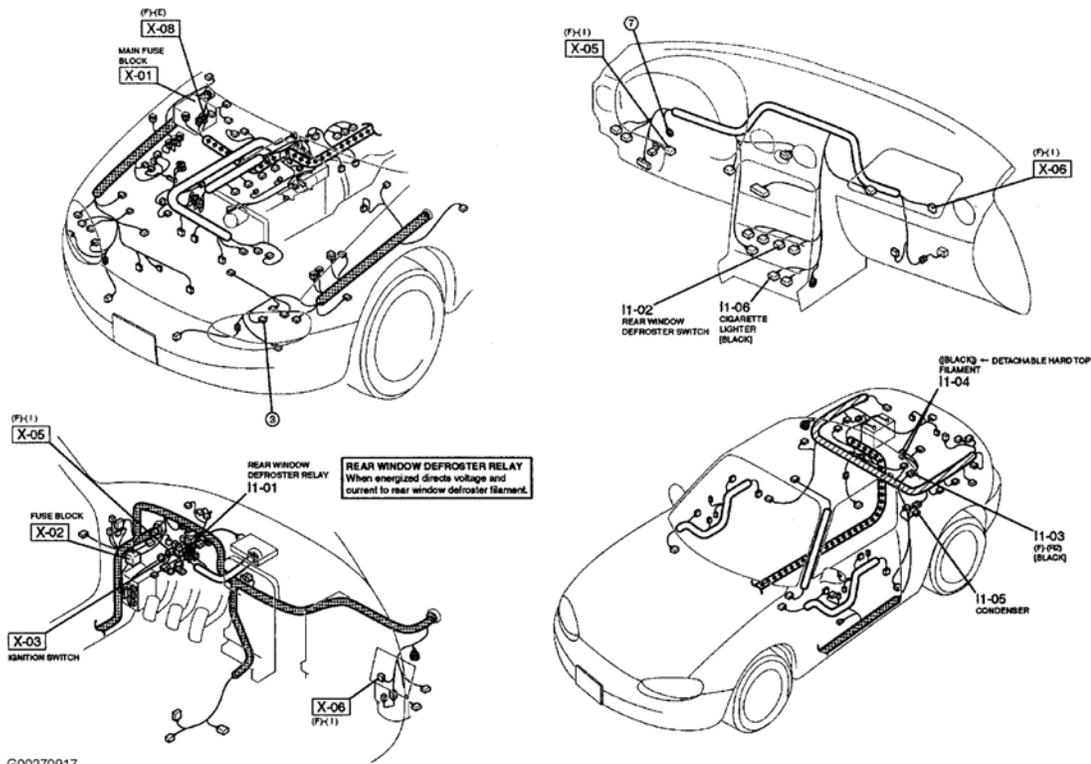


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Fig. 16: Interior Lights
Courtesy of MAZDA MOTORS CORP.

2005 Mazda MX-5 Miata

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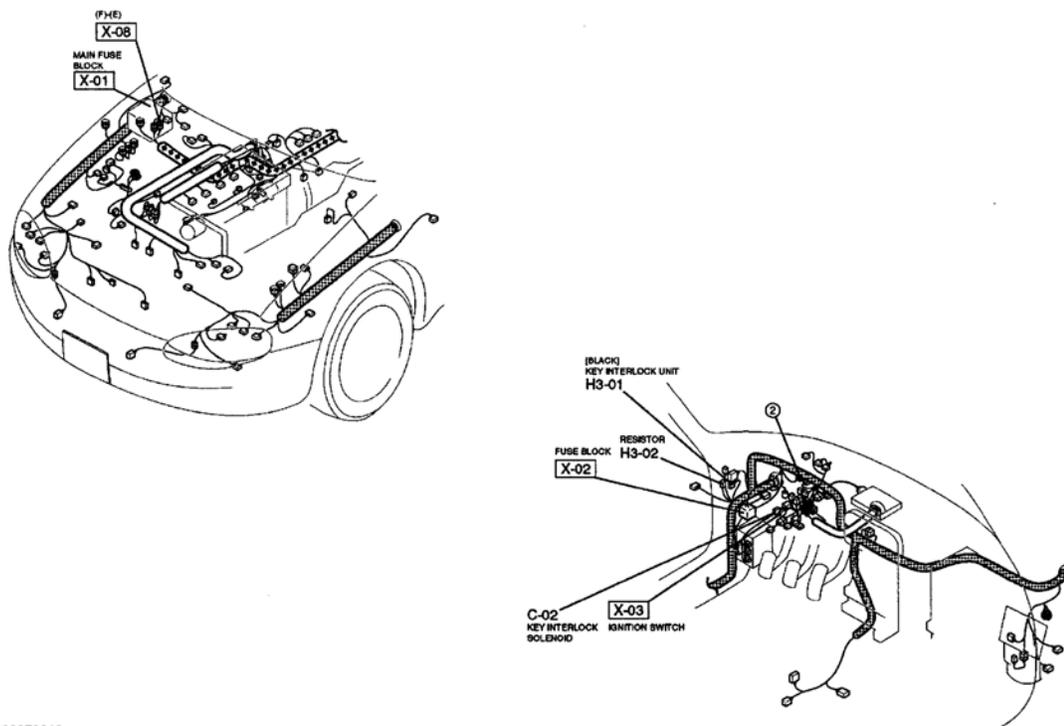


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Fig. 17: Cigarette Lighter/Rear Defroster
Courtesy of MAZDA MOTORS CORP.

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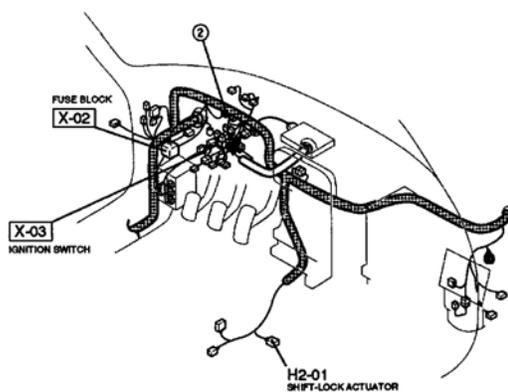
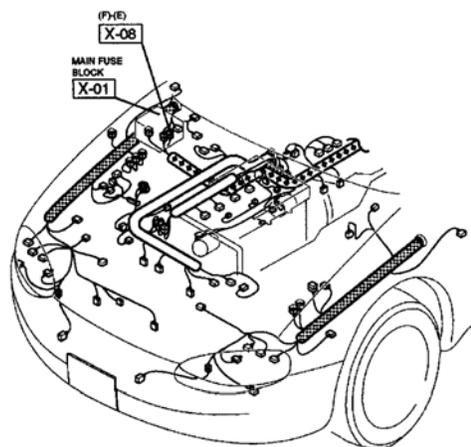


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Fig. 18: Key Interlock
Courtesy of MAZDA MOTORS CORP.

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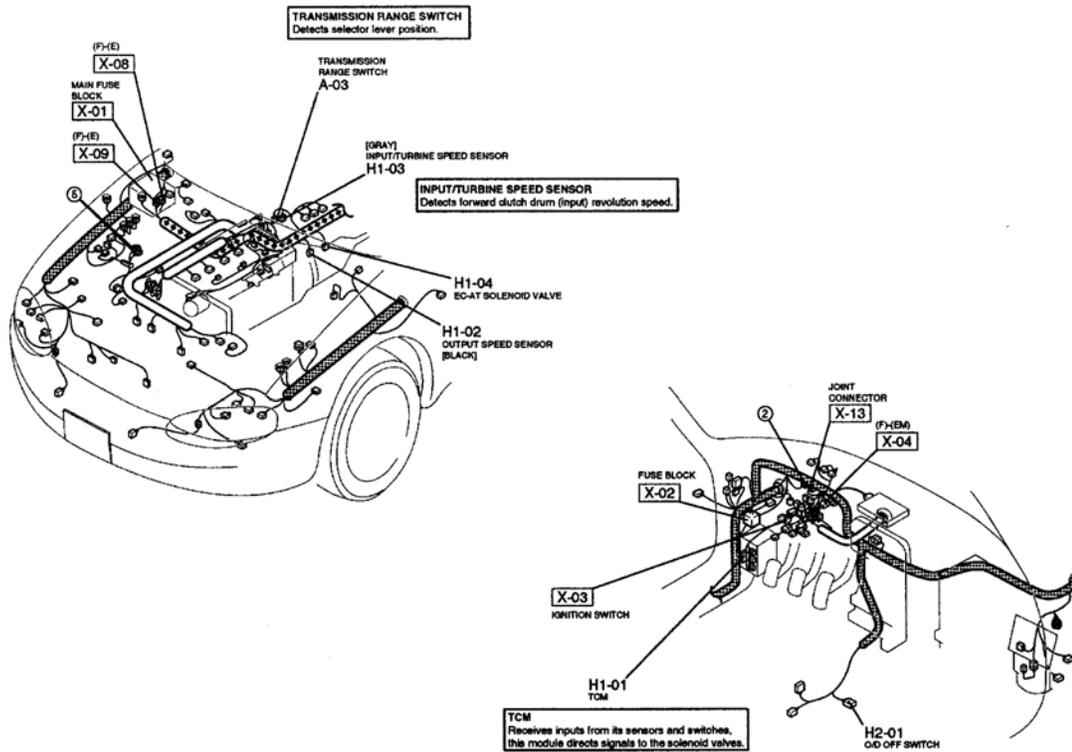


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Fig. 19: Shift-Lock
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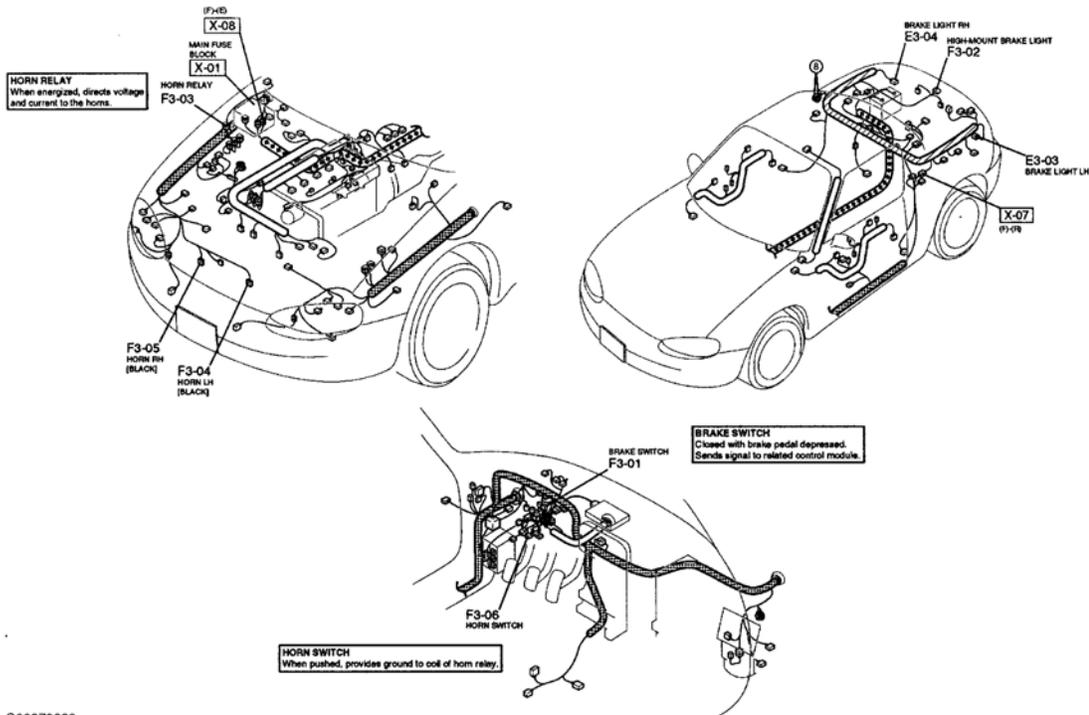


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Fig. 20: EC-AT Control
Courtesy of MAZDA MOTORS CORP.

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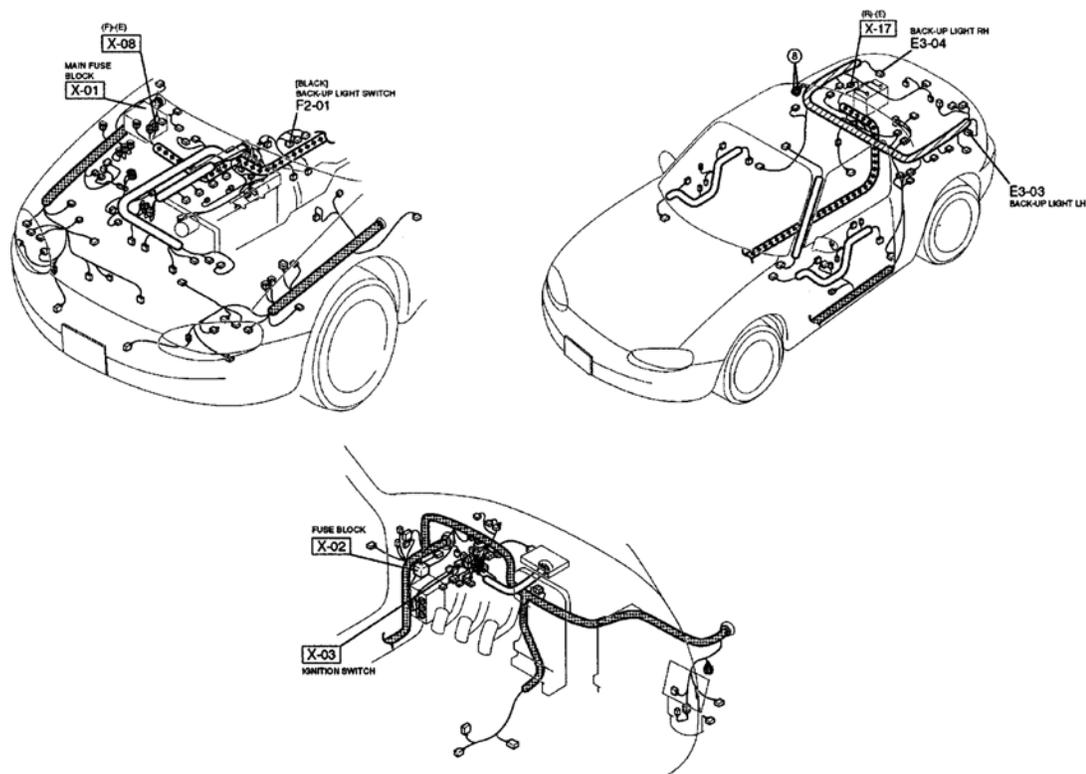


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Fig. 22: Brake Lights & Horn
Courtesy of MAZDA MOTORS CORP.

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2005 MAZDA MX-5 Miata

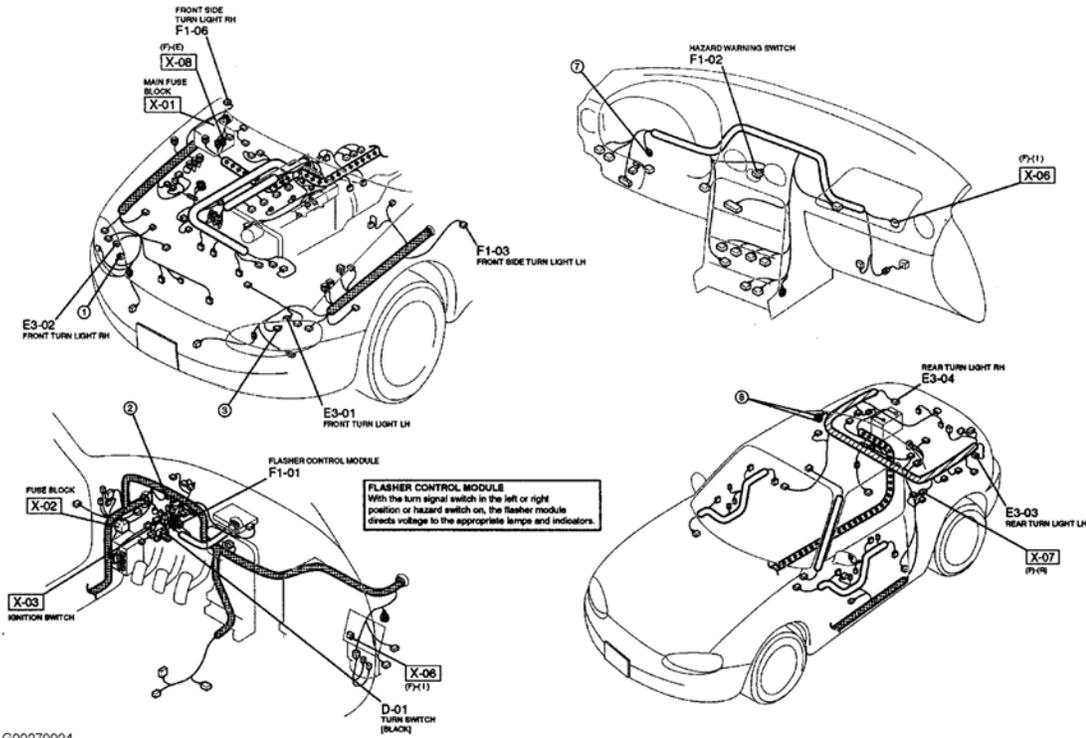


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Fig. 23: Back-Up Lights
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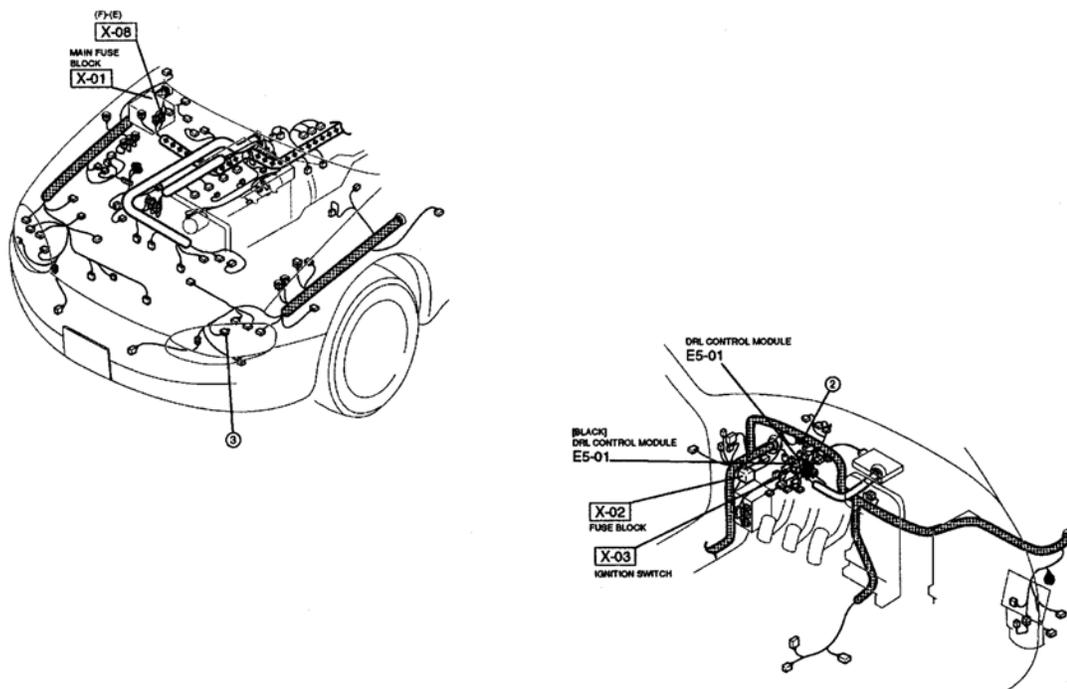


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Fig. 24: Turn Signal & Hazard Lights
Courtesy of MAZDA MOTORS CORP.

2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata

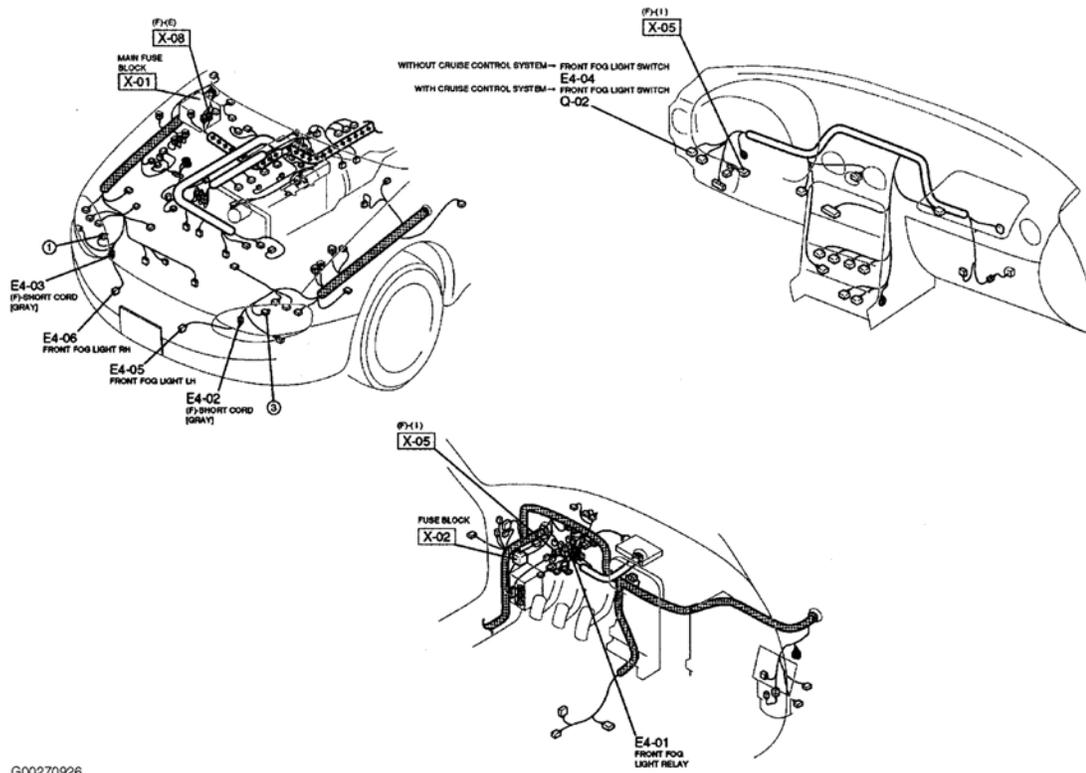


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Fig. 25: DRL
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2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata

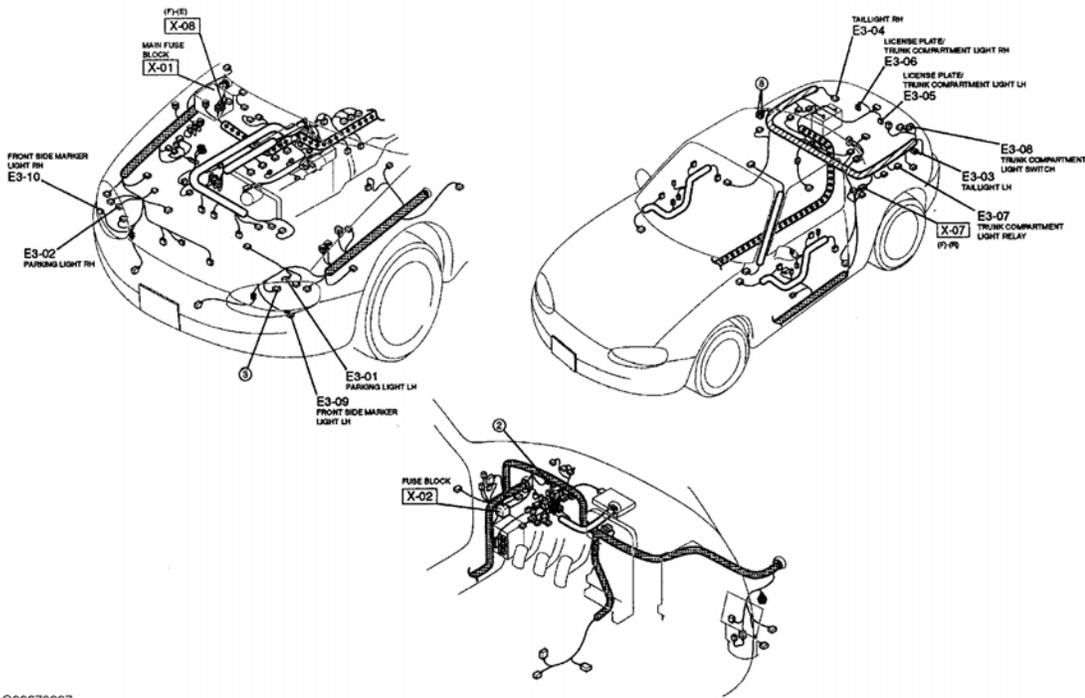


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Fig. 26: Fog Lights
Courtesy of MAZDA MOTORS CORP.

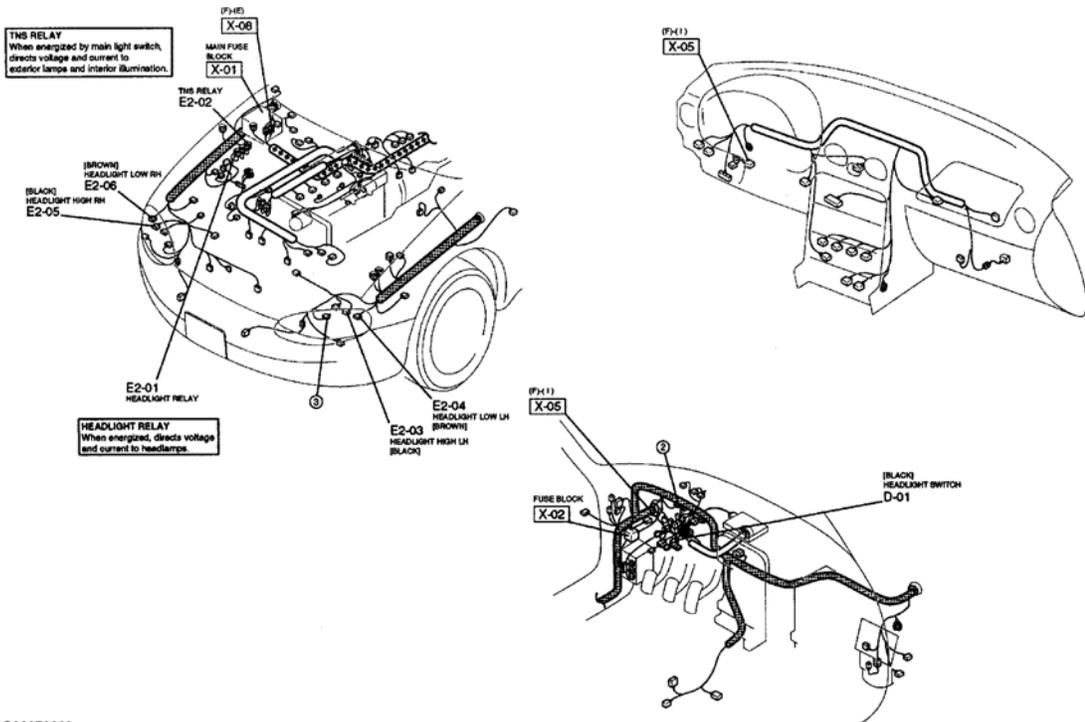
2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata



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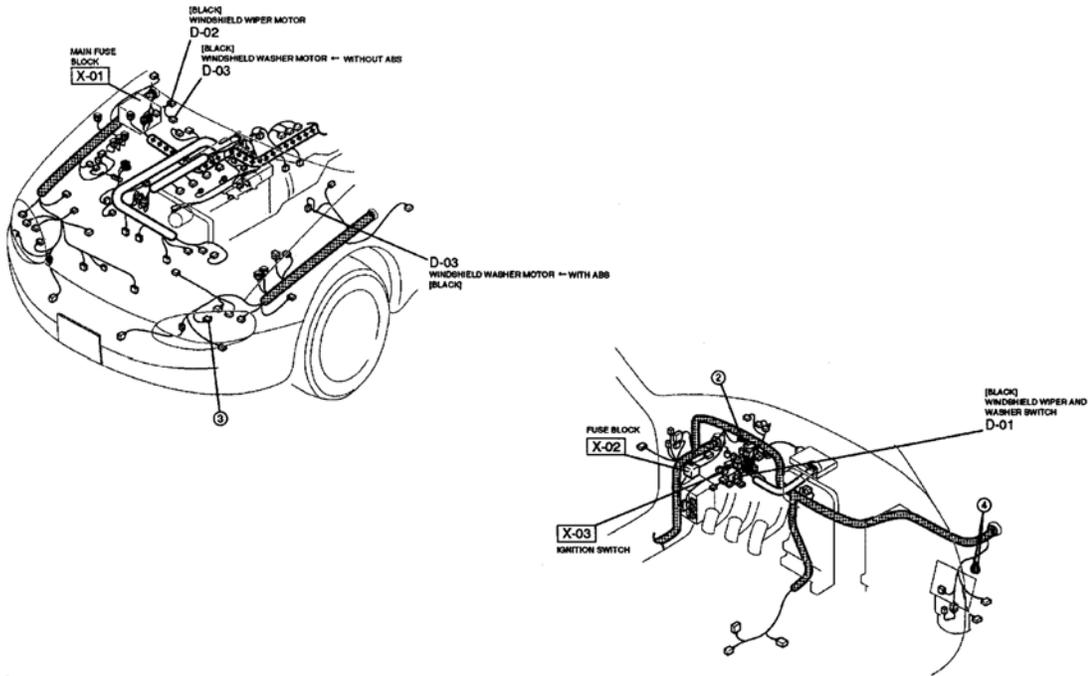
Fig. 27: Front Side Marker, License, Trunk & Parking Lights
 Courtesy of MAZDA MOTORS CORP.



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Fig. 28: Headlights (W/DRL)

Courtesy of MAZDA MOTORS CORP.



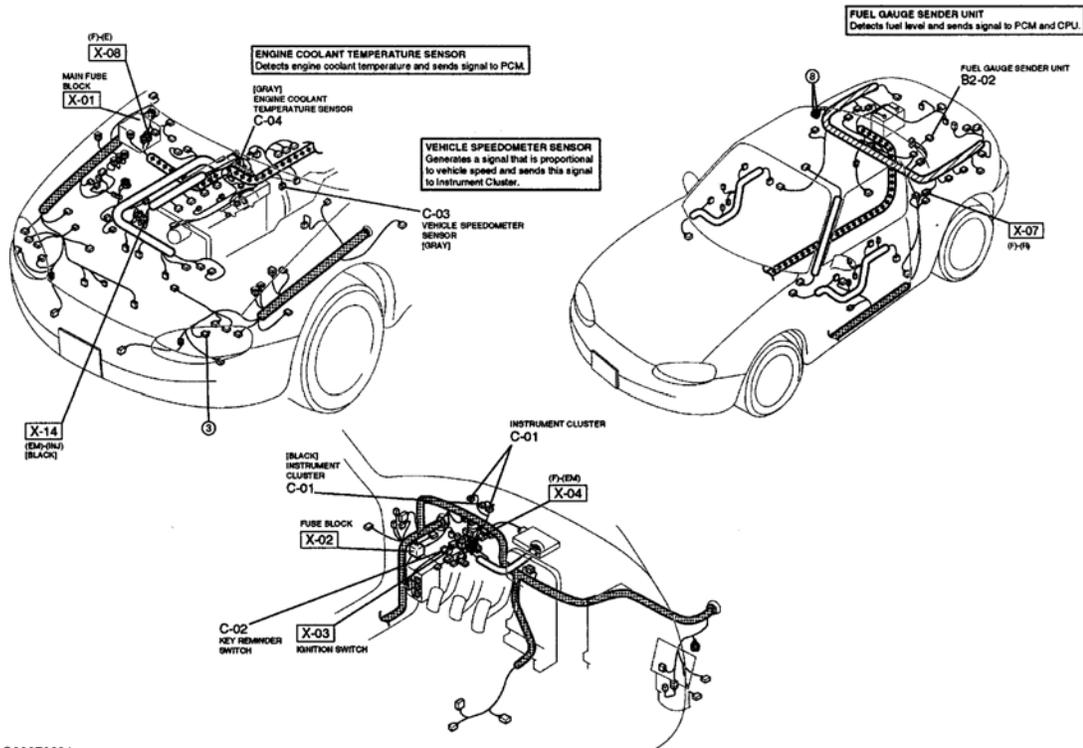
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Fig. 29: Wiper/Washer

Courtesy of MAZDA MOTORS CORP.

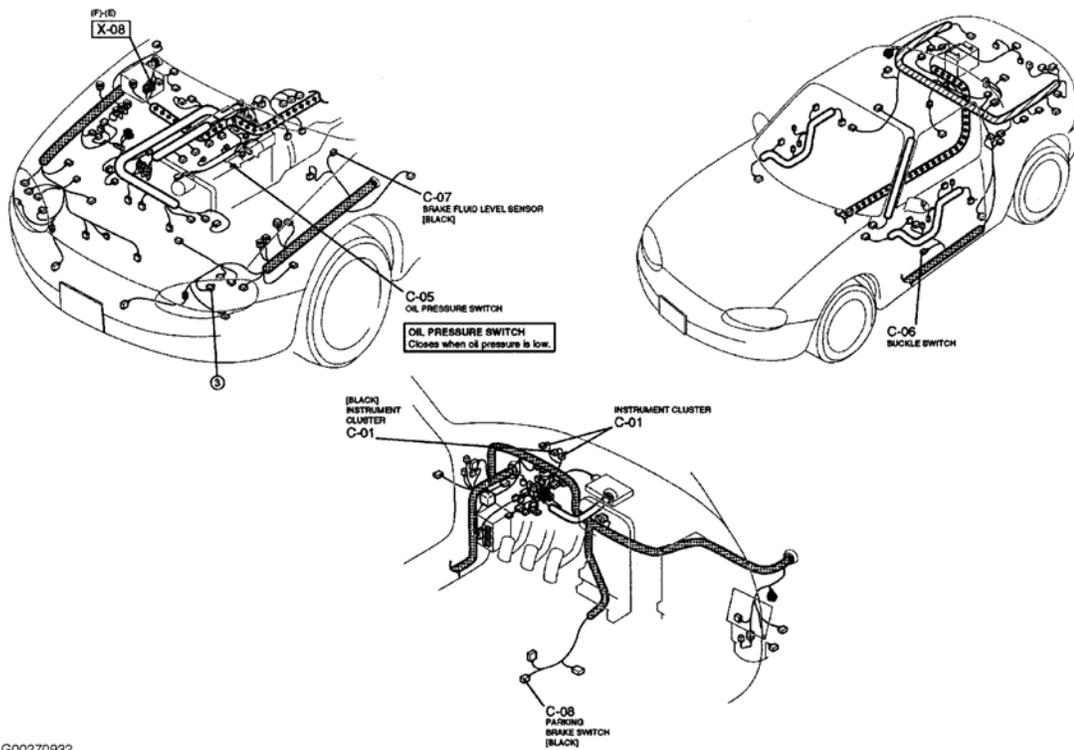
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2005 MAZDA MX-5 Miata



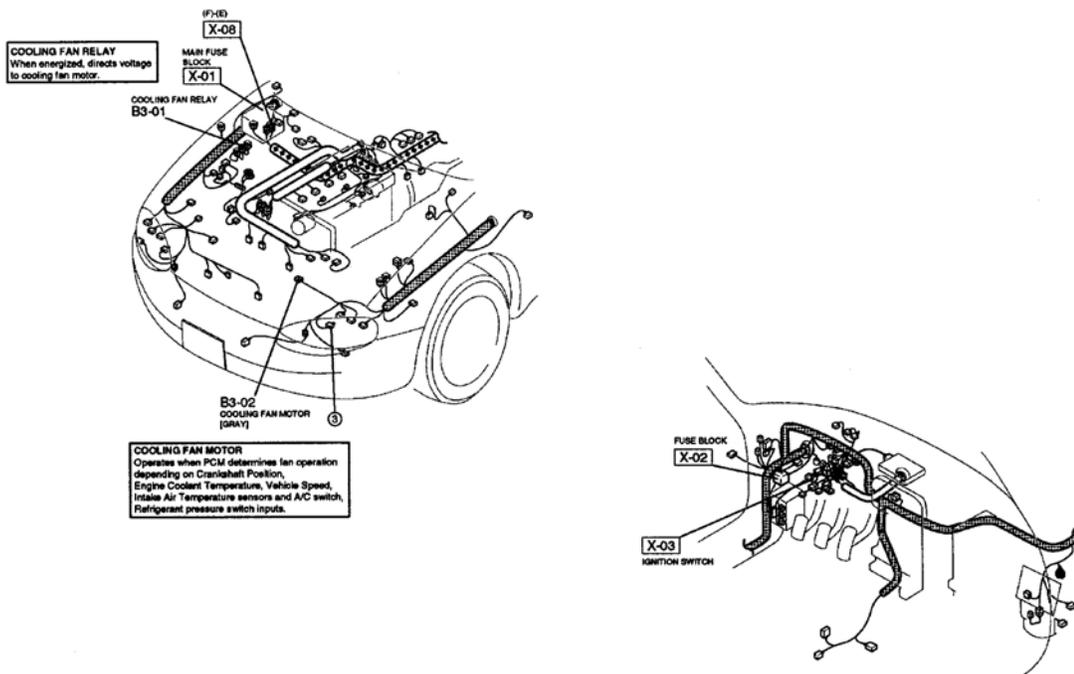
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Fig. 30: Instrument Cluster
Courtesy of MAZDA MOTORS CORP.



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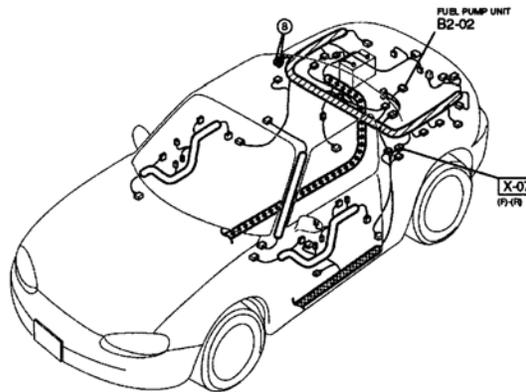
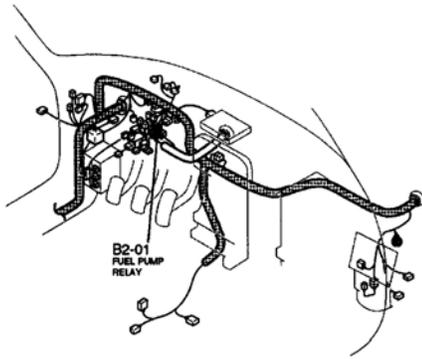
Fig. 31: Instrument Cluster
 Courtesy of MAZDA MOTORS CORP.



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Fig. 32: Cooling Fan

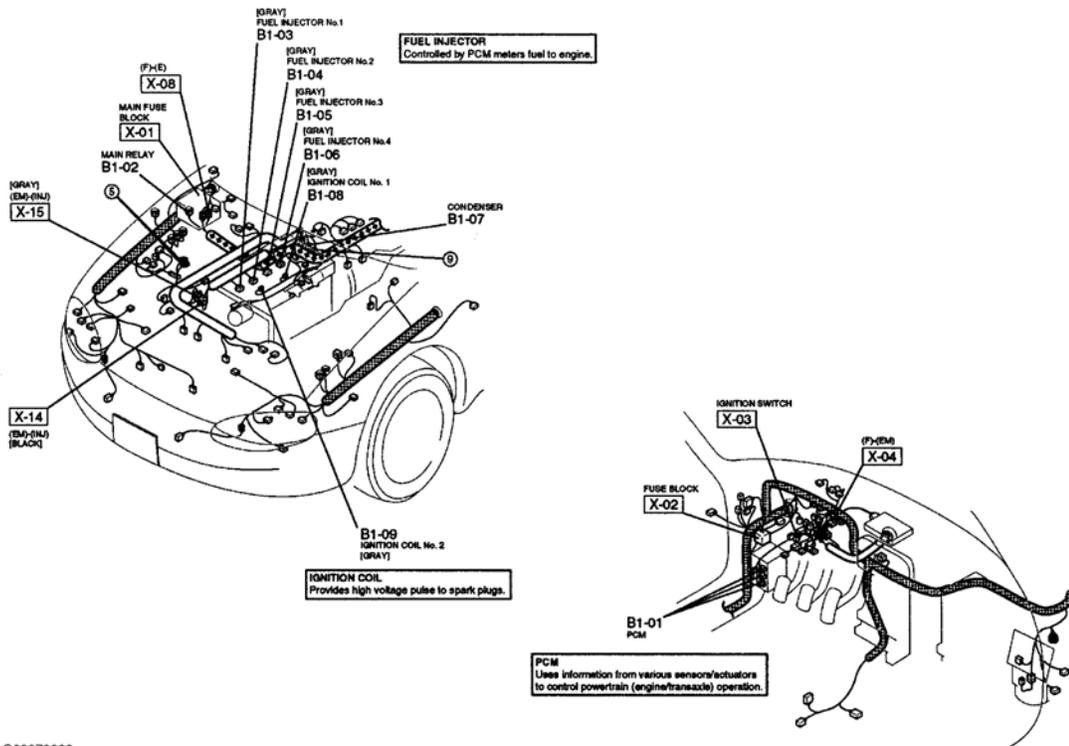
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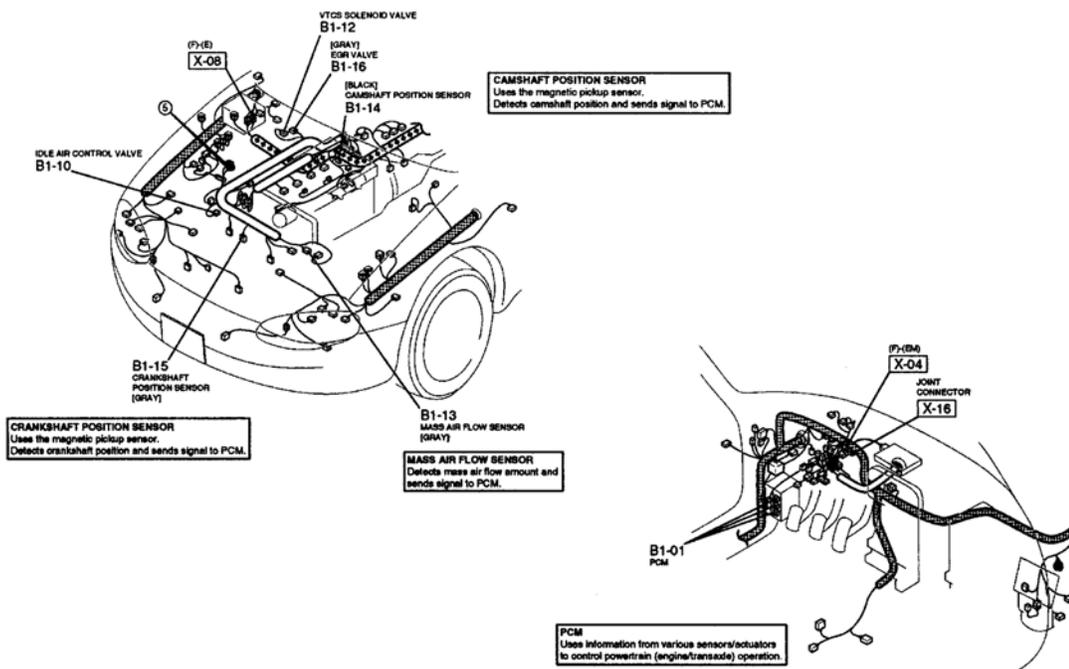
Fig. 33: Fuel System

Courtesy of MAZDA MOTORS CORP.



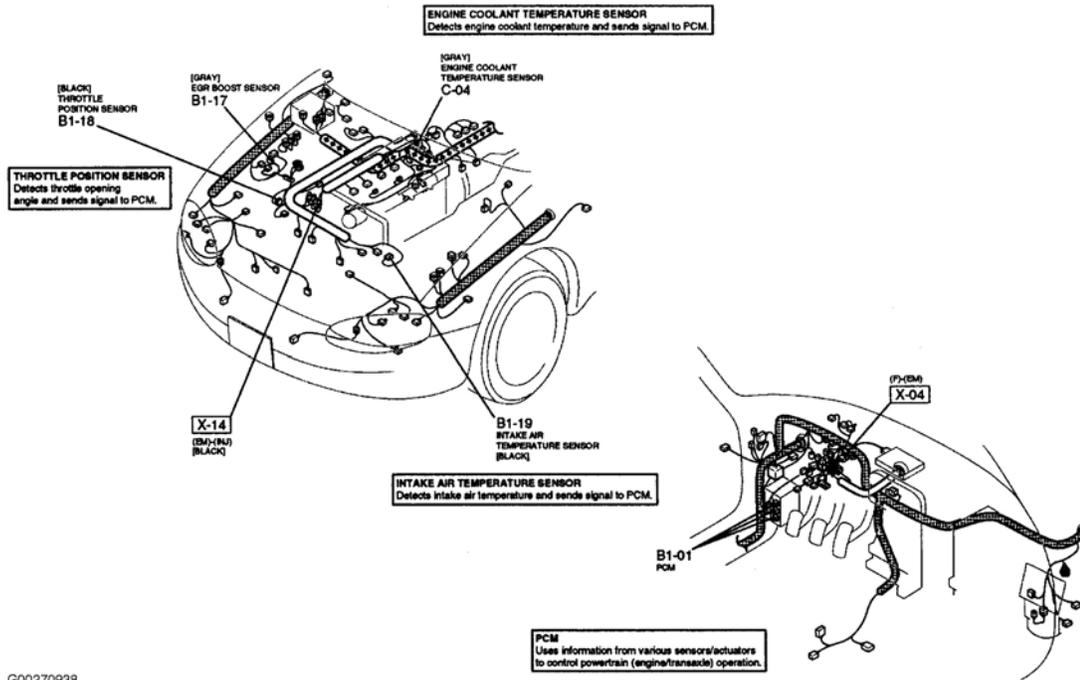
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Fig. 34: Engine Control System
Courtesy of MAZDA MOTORS CORP.



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Fig. 35: Engine Control System
Courtesy of MAZDA MOTORS CORP.



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Fig. 36: Engine Control System
Courtesy of MAZDA MOTORS CORP.

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Fig. 37: Engine Control System
Courtesy of MAZDA MOTORS CORP.

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Fig. 38: Engine Control System

Courtesy of MAZDA MOTORS CORP.

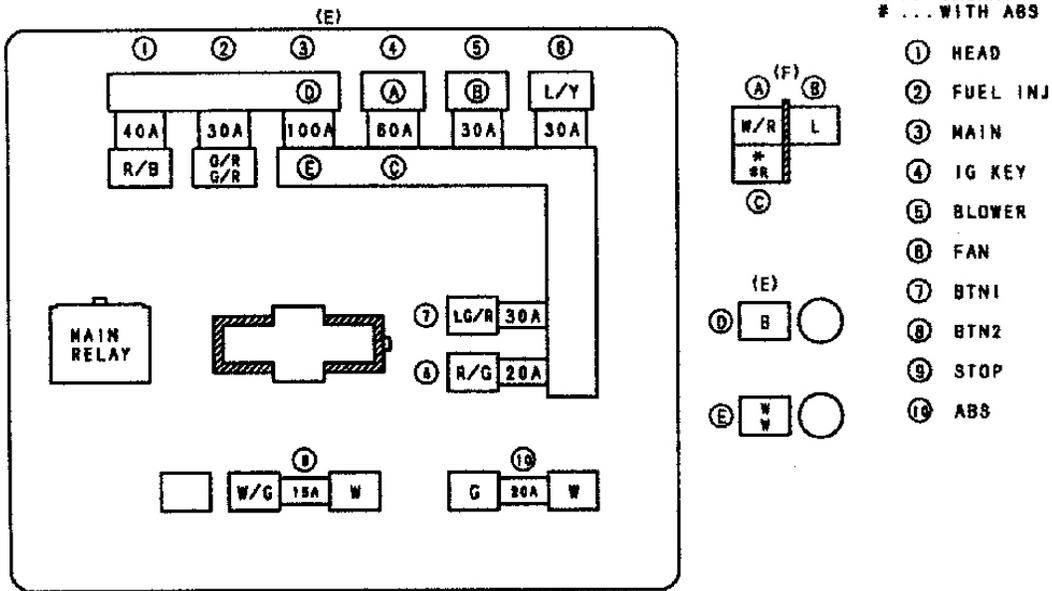
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Fig. 39: Starting & Charging

Courtesy of MAZDA MOTORS CORP.

2005 Mazda MX-5 Miata

2005 MAZDA MX-5 Miata



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Fig. 40: Relay & Main Fuse Block
Courtesy of MAZDA MOTORS CORP.