2008 MAZDA CX-9

#### **2008 MAZDA**

CX-9

# **BUZZERS, RELAYS & TIMERS**

#### **BUZZERS, RELAYS & TIMERS LOCATION**

Component	Location
A/C Relay	In main fuse block.
BACK-UP LIGHT Relay	In main fuse block.
COOLING FAN Relay No. 1	In main fuse block.
COOLING FAN Relay No. 2	In main fuse block.
FAN Relay	In main fuse block.
FRONT BLOWER Relay	In main fuse block.
FRONT FOG LIGHT Relay (2)	In main fuse block.
FUEL PUMP Relay	In main fuse block.
H/L HI Relay	In main fuse block.
H/L LOW Relay	In main fuse block.
HORN Relay	In main fuse block.
Keyless Beeper	Left rear of engine compartment.
MAIN Relay No. 1	In main fuse block.
MAIN Relay No. 2	In main fuse block.
PLG Buzzer	Right side of tailgate.
REAR BLOWER Relay	In main fuse block.
REAR WINDOW DEFROSTER Relay	In main fuse block.
SEAT WARMER LH Relay	In main fuse block.
SEAT WARMER RH Relay	In main fuse block.
STARTER Relay	In main fuse block.
TNS Relay	In main fuse block.

## **CIRCUIT PROTECTION DEVICES**

#### CIRCUIT PROTECTION DEVICES LOCATION

Component	Location
Fuse Block	Behind right side of dash. See Fig. 14.
Fuse & Relay Box	Center front of engine compartment. See <b>Fig. 8</b> .
Main Fuse Block	Left rear of engine compartment. See <b>Fig. 4</b> .

## **CONTROL UNITS**

#### **CONTROL UNITS LOCATION**

2008 MAZDA CX-9

Component	Location
Auto Light-Off Control Module	Behind left side of dash. See Fig. 27.
Auto Light/Wiper Control Module	Behind left side of dash. See Fig. 27.
AWD Control Module	Behind left end of dash. See Fig. 37.
BCM	Behind left kick panel. See <b>Fig. 40</b> .
Car-Navigation Unit	Right rear of luggage compartment. See Fig. 51.
DSC/RSC HU/CM	Left rear corner of engine compartment. See <b>Fig. 5</b> .
Fan Control Module No. 1	Behind left cooling fan assembly.
Fan Control Module No. 2	Behind right cooling fan assembly.
Hands-Free Telephone Unit	Behind right side of dash. See Fig. 16.
Keyless Control Module	Behind left side of dash. See Fig. 28.
Keyless Receiver	Behind left side of dash. See Fig. 25.
PCM	Left rear corner of engine compartment. See <b>Fig. 7</b> .
PLG Control Module	Left side of luggage compartment. See <b>Fig. 64</b> .
Position Memory Control Module	Under driver's seat. See Fig. 44.
PVC Valve Heater Control	Center rear of engine compartment.
RES Unit	Center of roof. See Fig. 53.
SAS Control Module	Under front of center console. See Fig. 20.
Seat Weight Sensor Control Module	Under front passenger's seat. See <b>Fig. 46</b> .
TCM	Left front of engine compartment. See <u>Fig. 2</u> .

# **MOTORS**

#### MOTORS LOCATION

Component	Location
Air Intake Actuator	Behind right side of dash.
Closer Motor	Lower center of liftgate.
Cooling Fan Motor No. 1	Left front of engine compartment.
Cooling Fan Motor No. 2	Right front of engine compartment.
Door Lock Actuator (Left/Right Front)	At rear of respective front door.
Door Lock Actuator (Left/Right Rear)	At rear of respective rear door.
Driver Side Front Air Mix Actuator	Left side of HVAC unit.
Front Airflow Mode Actuator	Top left side of HVAC unit.
Front Blower Motor	Under right side of dash.
Fuel Pump Unit	Under rear seat, on fuel tank.
Headlight Leveling Actuator (Left/Right)	In respective headlight assembly.
Liftgate Latch & Lock Actuator	Lower center of liftgate.
Passenger Side Front Air Mix Actuator	Right side of HVAC unit.
PLG Drive Unit	Left side of luggage compartment.
Power Window Motor (Left/Right Front)	In respective front door.
Power Window Motor (Left/Right Rear)	In respective rear door.

2008 MAZDA CX-9

Rear Airflow Mode Actuator	Under rear of center console.
Rear Air Mix Actuator	Under rear of center console.
Rear Blower Motor	Under center console.
Rear Washer Motor	In washer fluid reservoir.
Rear Wiper Motor	Center of liftgate.
Recliner Motor	In driver's seat back.
Slider Motor	Under driver's seat.
Starter	Rear of engine.
Sun Roof Motor	Center front of roof.
Tilt Motor (Front)	Under driver's seat.
Tilt Motor (Rear)	Under driver's seat.
Windshield Washer Motor	In washer fluid reservoir.
Windshield Wiper Motor	Left rear of engine compartment.

## **SENDING UNITS & SENSORS**

## SENDING UNITS & SENSORS LOCATION

Component	Location
ABS Wheel-Speed Sensor (Left/Right Front)	At respective front wheelwell.
ABS Wheel-Speed Sensor (Left/Right Rear)	At respective rear wheelwell.
Accelerator Pedal Position Sensor	Top of accelerator pedal assembly.
Ambient Temperature Sensor	Center front of engine compartment.
Brake Fluid Level Sensor	Left rear of engine compartment, in brake fluid reservoir.
Cabin Temperature Sensor	Under left side of dash.
Camshaft Position Sensor (Left)	Rear of left cylinder bank.
Camshaft Position Sensor (Right)	Rear of right cylinder bank.
CHT Sensor	Top right front of engine.
Combined Sensor	At right "C" pillar.
Crankshaft Position Sensor	Left rear of engine.
Crash Zone Sensor	Center front of engine compartment.
Driver-Side Side Air Bag Sensor No. 1	Near base of left "B" pillar.
Driver-Side Side Air Bag Sensor No. 2	Near base of left "C" pillar.
Fuel Gauge Sender Sub Unit	Under rear seat, on fuel tank.
Fuel Tank Pressure Sensor	Under rear seat, on fuel tank.
HO2S (Left Front)	Left side of engine.
HO2S (Left Rear)	Left rear of engine.
HO2S (Right Front)	Right side of engine.
HO2S (Right Rear)	Right side of engine.
Knock Sensor	On right cylinder bank.
Mass Air Flow/Intake Air Temperature Sensor	Rear of engine.

2008 MAZDA CX-9

Passenger-Side Side Air Bag Sensor No. 1	Near base of right "B" pillar.
Passenger-Side Side Air Bag Sensor No. 2	Near base of right "C" pillar.
PLG Touch Sensor (Left/Right)	At respective side of tailgate.
Rain Sensor	Forward of interior rearview mirror.
Rear Evaporator Temperature Sensor	Under center console.
Seat Recline Position Sensor	In driver's seat back.
Seat Slide Position Sensor	Under driver's seat.
Seat Track Position Sensor	Under driver's seat.
Seat Weight Sensor (Left/Right)	Under respective side of front passenger's seat.
Solar Radiation Sensor	Top left side of dash.
Steering Angle Sensor	In steering column.
Tilt Position Sensor (Front)	Under driver's seat.
Tilt Position Sensor (Rear)	Under driver's seat.
Washer Fluid-Level Sensor	In washer fluid reservoir.

## **SOLENOIDS & SOLENOID VALVES**

#### SOLENOIDS & SOLENOID VALVES LOCATION

Component	Location
AWD Solenoid	Near rear differential.
Canister Vent Solenoid Valve	Under left side of vehicle, forward of fuel tank.
Fuel Injectors No. 1, 2, & 3	On right cylinder bank.
Fuel Injectors No. 4, 5 & 6	On left cylinder bank.
Magnetic Clutch	Left front of engine.
Oil Control Valve (Left)	Front of left cylinder bank.
Oil Control Valve (Right)	Front of right cylinder bank.
Purge Solenoid Valve	Rear of engine compartment.
Steering Lock Unit	In steering column.

#### **SWITCHES**

#### **SWITCHES LOCATION**

Component	Location
Brake Switch No. 1	On brake pedal assembly.
Brake Switch No. 2	On brake pedal assembly.
Buckle Switch (Driver/Passenger Side)	Integral to respective seat belt buckle assembly.
Door Lock-Link Switch (Left/Right Front)	In respective front door.
Door Lock-Link Switch (Left/Right Rear)	In respective rear door.
Door Switch (Left/Right Front)	At respective "B" pillar.
Door Switch (Left/Right Rear)	At respective "C" pillar.
Hood Latch Switch	Center front of engine compartment.

2008 MAZDA CX-9

Horn Switch	In steering wheel.
Key Reminder Switch	In steering column.
Oil Pressure Switch	Lower left front of engine.
Parking Brake Switch	Top of parking brake assembly.
Power Steering Pressure Switch	Right front side of engine.
Refrigerant Pressure Switch	Right front corner of engine compartment.

# **MISCELLANEOUS**

## MISCELLANEOUS LOCATION

Component	Location
Audio Amplifier	Right side of luggage compartment.
Audiopilot Microphone	Behind left side of dash.
Capacitor (2)	Right rear of roof.
Check Connector	Behind right side of dash. See <b>Fig. 15</b> .
Clock Spring	In steering column.
Coil	Behind left side of dash.
Data Link Connector-2	Under lower left side of dash. See <b>Fig. 30</b> .
Diode	Under right side of dash.
Driver-Side Air Bag Module No. 1	In steering wheel.
Driver-Side Air Bag Module No. 2	In steering wheel.
Driver-Side Curtain Air Bag Module	Top of left "D" pillar.
Driver-Side Pre-Tensioner Seat Belt	Base of left "B" pillar.
Driver-Side Side Air Bag Module	Left side of driver's seat back.
Front Power MOS FET	Near front blower motor.
Generator	Left front of engine.
Horn (High)	Left front of engine compartment.
Horn (Low)	Right front of engine compartment.
Ignition Coils No. 1, 2 & 3	Top of right cylinder bank.
Ignition Coils No. 4, 5 & 6	Top of left cylinder bank.
Inverter	Left side of luggage compartment.
Joint Connector (C-36)	Behind left end of dash. See <u>Fig. 36</u> .
Joint Connector (C-37)	Behind left center of dash. See Fig. 24.
Joint Connector (C-38)	Behind center of dash. See <u>Fig. 19</u> .
Keyless Antenna (Exterior, Left/Right Front)	In respective front door.
Keyless Antenna (Exterior, Rear)	Behind center of rear bumper.
Keyless Antenna (Interior, Front Center)	Under middle of dash.
Keyless Antenna (Interior, Rear)	Center front of luggage compartment.
Keyless Antenna (Interior, Right Front)	Under right side of dash.
Microphone	Front center of roof.
Noise Filter	Lower center of liftgate.

2008 MAZDA CX-9

Passenger-Side Air Bag Module No. 1	Behind right side of dash.
Passenger-Side Air Bag Module No. 2	Behind right side of dash.
Passenger-Side Curtain Air Bag Module	Top of right "C" pillar.
Passenger-Side Pre-Tensioner Seat Belt	Base of right "B" pillar.
Passenger-Side Side Air Bag Module	Right side of front passenger's seat back.
Power MOS FET	Under center console.
PVC Valve Heater Fitting	Center rear of engine compartment.
Rear Mount Camera	Left side of liftgate.
Throttle Body	Top rear of engine.

# **CONNECTORS**

#### **CONNECTORS LOCATION**

Component	Location
C-03 (12 Pin)	Left side of engine compartment. See <b>Fig. 6</b> .
C-05 (14 Pin)	Behind right kick panel. See Fig. 13.
C-06 (Blue, 40 Pin)	Behind left side of dash. See Fig. 29.
C-07 (14 Pin)	Under front of center console. See Fig. 22.
C-08 (16 Pin)	Under left center of center console. See Fig. 23.
C-09 (14 Pin)	Behind left kick panel. See <b>Fig. 39</b> .
C-10 (16 Pin)	Behind left kick panel. See <b>Fig. 38</b> .
C-11 (56 Pin)	Under front of center console. See Fig. 21.
C-12 (34 Pin)	Behind left kick panel. See <b>Fig. 47</b> .
C-13 (34 Pin)	Behind right kick panel. See <b>Fig. 34</b> .
C-14 (14 Pin)	At left "B" pillar. See <b>Fig. 54</b> .
C-15 (14 Pin)	At right "B" pillar. See <b>Fig. 48</b> .
C-16 (Blue, 40 Pin)	Behind left kick panel. See Fig. 41.
C-17 (16 Pin)	Behind left kick panel. See Fig. 32.
C-18 (16 Pin)	Behind left kick panel. See <u>Fig. 31</u> .
C-19 (14 Pin)	Under driver's seat. See <u>Fig. 42</u> .
C-20 (14 Pin)	Under front passenger's seat. See <u>Fig. 45</u> .
C-21 (Blue, 40 Pin)	At left "D" pillar. See <u>Fig. 63</u> .
C-23 (Light Gray, 24 Pin)	Right rear corner of vehicle. See <u>Fig. 52</u> .
C-24 (24 Pin)	Top of right "D" pillar. See <u>Fig. 56</u> .
C-25 (Blue, 39 Pin)	Behind right kick panel. See <u>Fig. 12</u> .
C-26 (14 Pin)	Center rear of roof. See <u>Fig. 58</u> .
C-27 (16 Pin)	Center rear of roof. See <u>Fig. 60</u> .
C-28 (6 Pin)	At left "D" pillar. See <u>Fig. 57</u> .
C-32 (14 Pin)	In left rear door. See <u>Fig. 55</u> .
C-33 (14 Pin)	In right rear door. See <u>Fig. 49</u> .
C-34 (16 Pin)	Top front of engine. See <b>Fig. 9</b> .

2008 MAZDA CX-9

C-35 (70 Pin)	Right side of engine compartment. See Fig. 10.
C-39 (Yellow, 4 Pin)	Behind right side of dash. See Fig. 17.
C-40 (6 Pin)	Under driver's seat. See <b>Fig. 43</b> .

#### **GROUNDS**

#### **GROUNDS LOCATION**

Component	Location
G01 (Joint Connector)	Behind right kick panel. See <b>Fig. 35</b> .
G3	Left side of engine compartment. See <u>Fig. 3</u> .
G5	Behind right headlight assembly. See <b>Fig. 11</b> .
G7	Behind left headlight assembly. See <b>Fig. 1</b> .
G9	Behind right center of dash. See Fig. 18.
G10 (Joint Connector)	Behind left side of dash. See Fig. 26.
G11 (Joint Connector)	Behind left side of dash. See Fig. 33.
G12 (Joint Connector)	At right "C" pillar. See Fig. 50.
G13 (Joint Connector)	At left "C" pillar. See Fig. 61.
G14	At left "D" pillar. See Fig. 62.
G15	Center rear of roof. See <u>Fig. 59</u> .

## **COMPONENT LOCATION GRAPHICS**

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

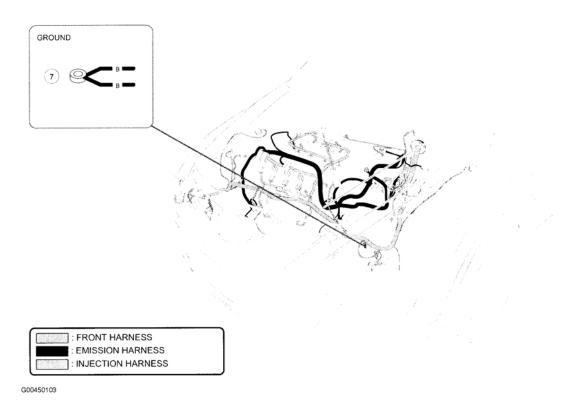


Fig. 1: Engine Compartment
Courtesy of MAZDA MOTORS CORP.

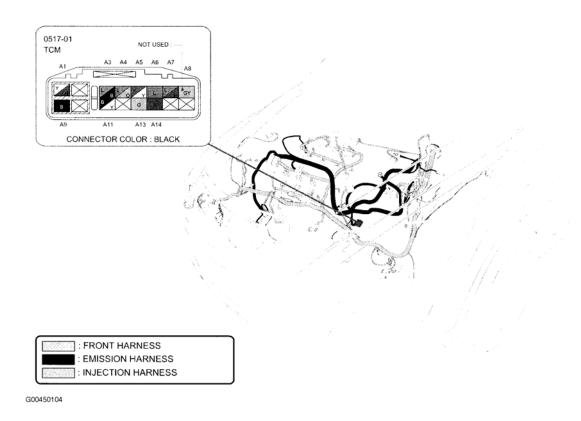


Fig. 2: Engine Compartment
Courtesy of MAZDA MOTORS CORP.

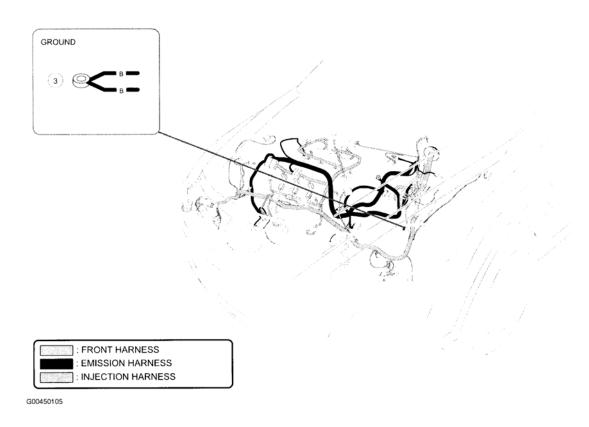


Fig. 3: Engine Compartment
Courtesy of MAZDA MOTORS CORP.

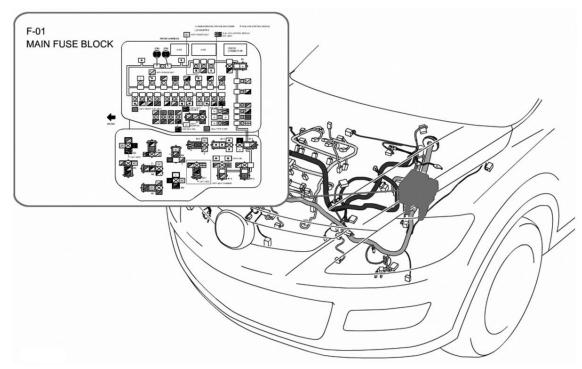


Fig. 4: Engine Compartment

2008 MAZDA CX-9

#### Courtesy of MAZDA MOTORS CORP.

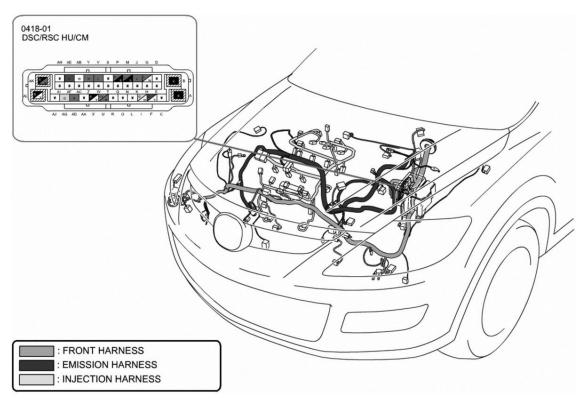


Fig. 5: Engine Compartment
Courtesy of MAZDA MOTORS CORP.

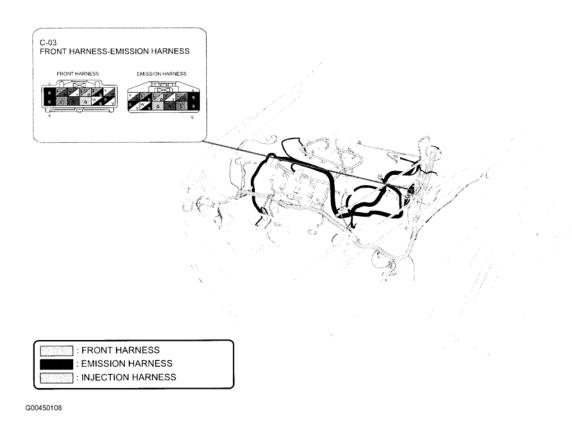


Fig. 6: Engine Compartment
Courtesy of MAZDA MOTORS CORP.

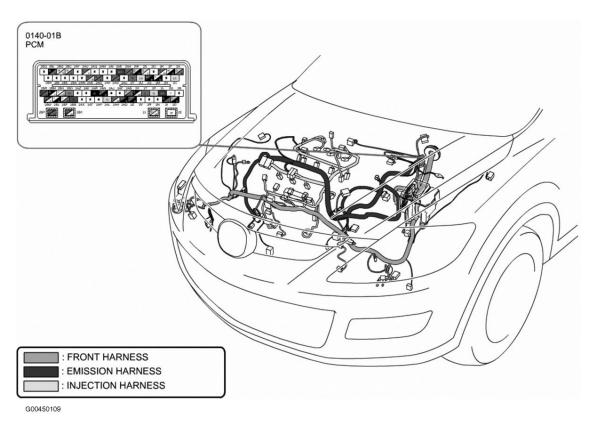


Fig. 7: Engine Compartment
Courtesy of MAZDA MOTORS CORP.

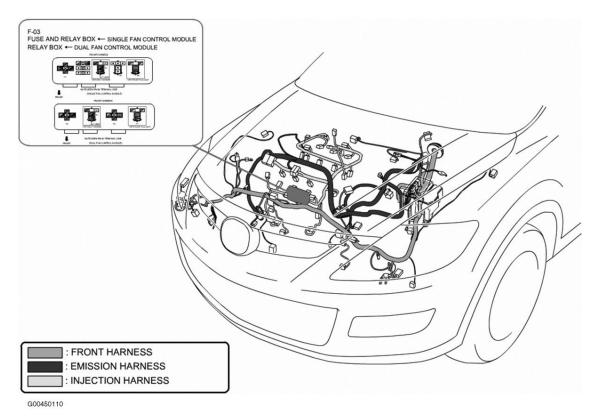


Fig. 8: Engine Compartment
Courtesy of MAZDA MOTORS CORP.

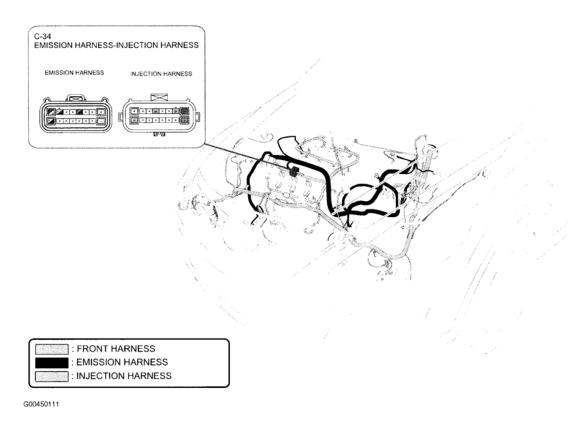


Fig. 9: Engine Compartment
Courtesy of MAZDA MOTORS CORP.

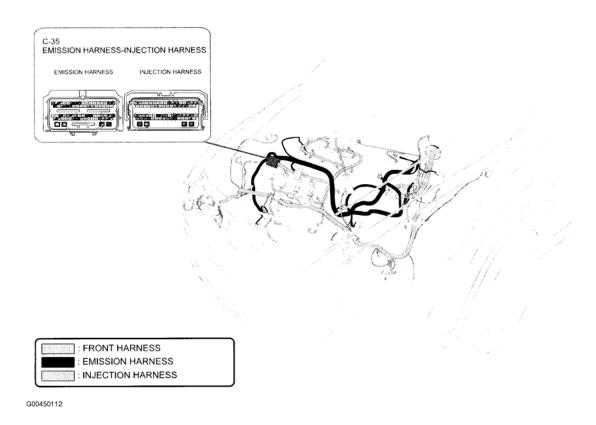


Fig. 10: Engine Compartment
Courtesy of MAZDA MOTORS CORP.

2008 MAZDA CX-9

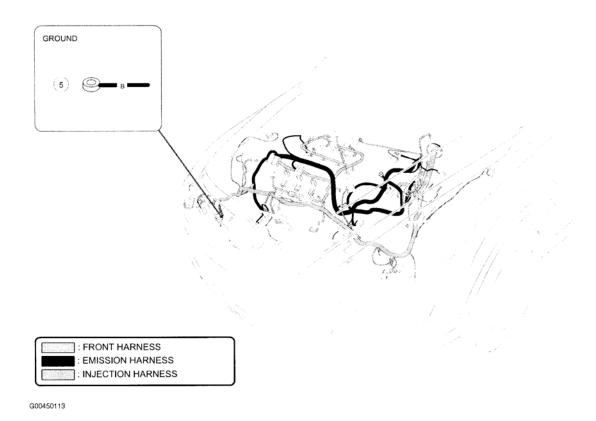
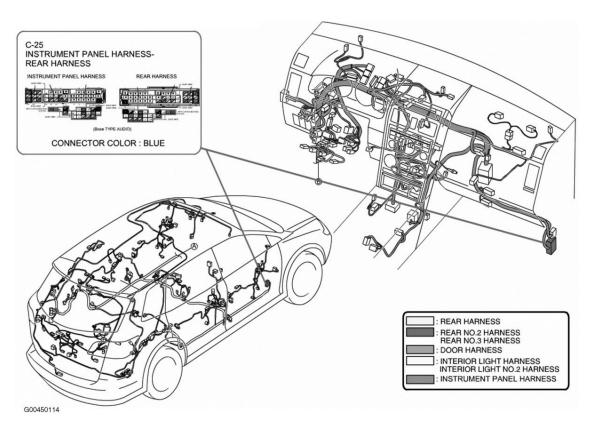


Fig. 11: Engine Compartment
Courtesy of MAZDA MOTORS CORP.



<u>Fig. 12: Right Kick Panel</u> Courtesy of MAZDA MOTORS CORP.

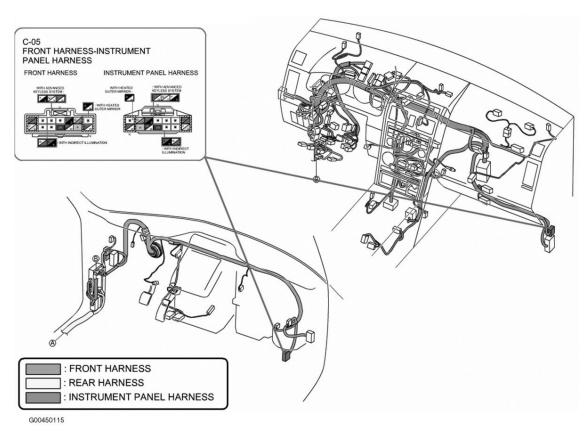


Fig. 13: Right Kick Panel Courtesy of MAZDA MOTORS CORP.

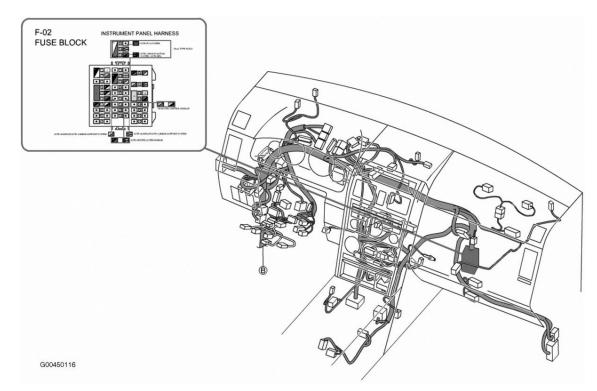


Fig. 14: Dash Courtesy of MAZDA MOTORS CORP.

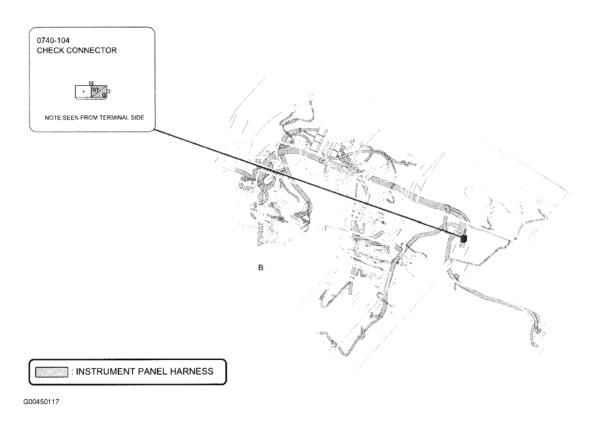


Fig. 15: Dash Courtesy of MAZDA MOTORS CORP.

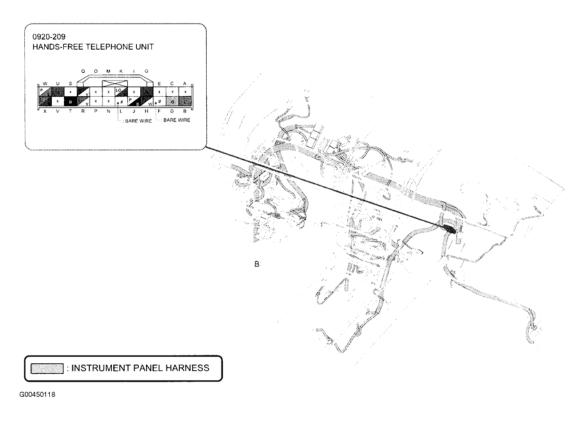


Fig. 16: Dash Courtesy of MAZDA MOTORS CORP.

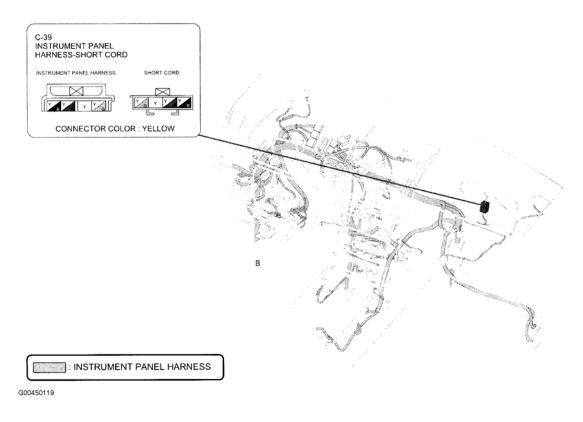


Fig. 17: Dash Courtesy of MAZDA MOTORS CORP.

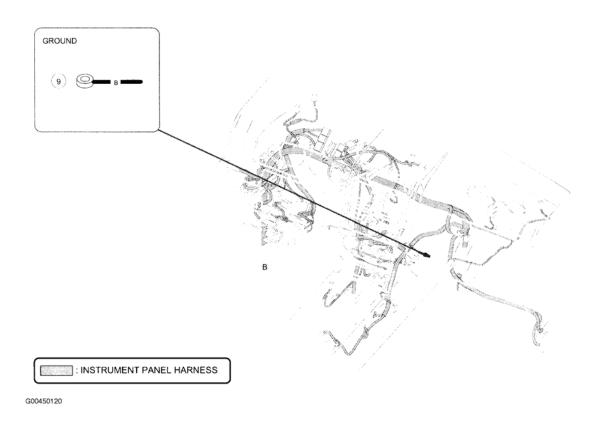


Fig. 18: Dash Courtesy of MAZDA MOTORS CORP.

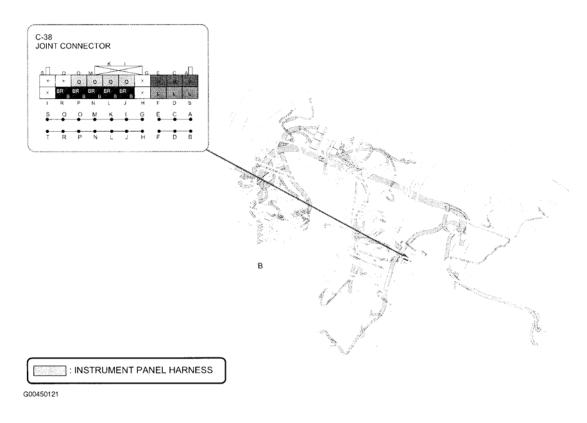
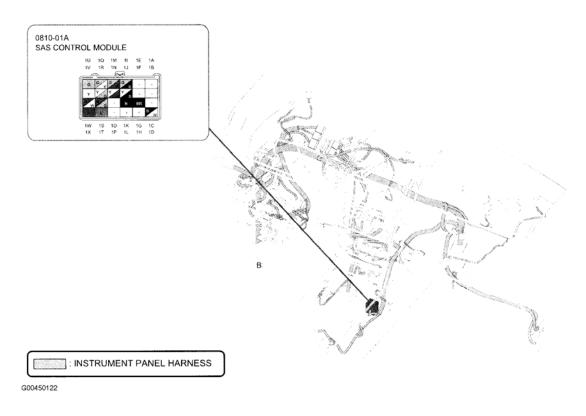


Fig. 19: Dash Courtesy of MAZDA MOTORS CORP.



<u>Fig. 20: Center Console</u> Courtesy of MAZDA MOTORS CORP.

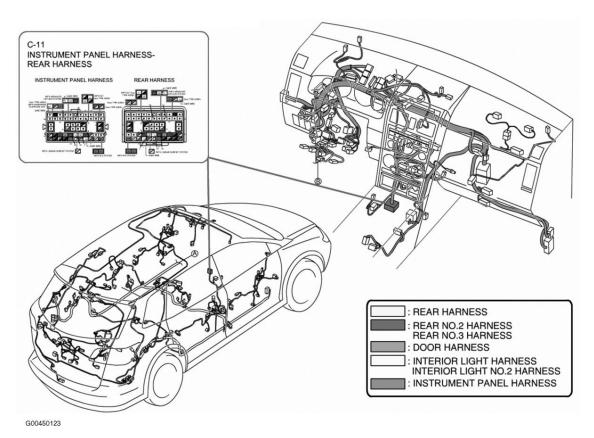
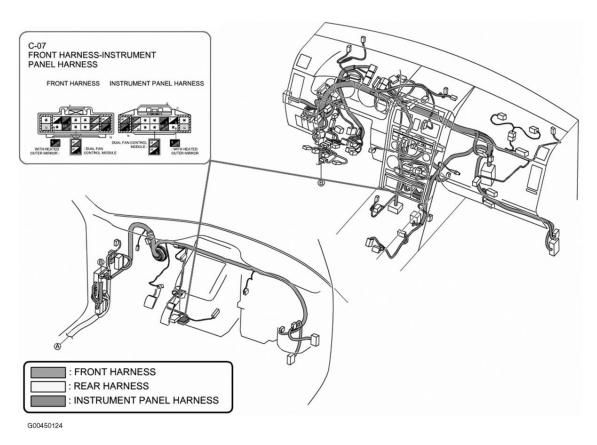
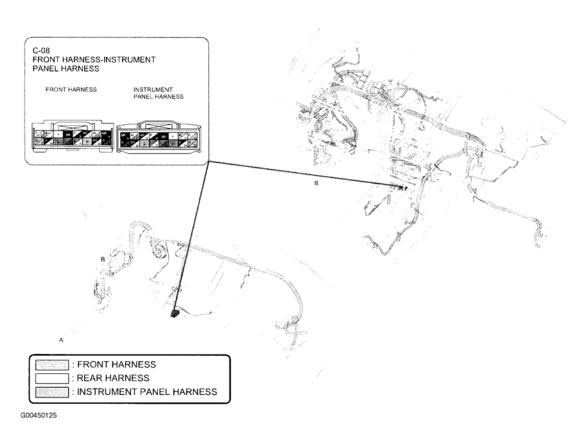


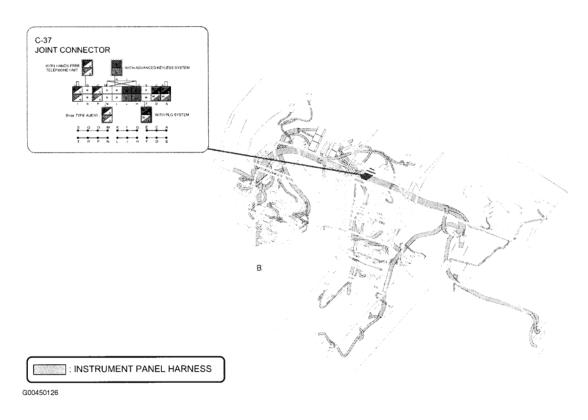
Fig. 21: Center Console Courtesy of MAZDA MOTORS CORP.



<u>Fig. 22: Center Console</u> Courtesy of MAZDA MOTORS CORP.



<u>Fig. 23: Center Console</u> Courtesy of MAZDA MOTORS CORP.



<u>Fig. 24: Dash</u> Courtesy of MAZDA MOTORS CORP.

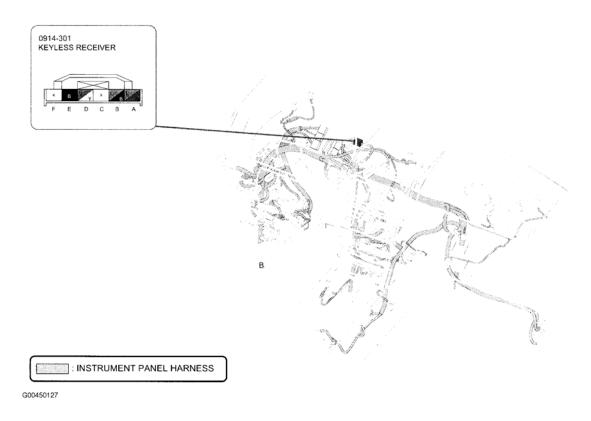


Fig. 25: Dash Courtesy of MAZDA MOTORS CORP.

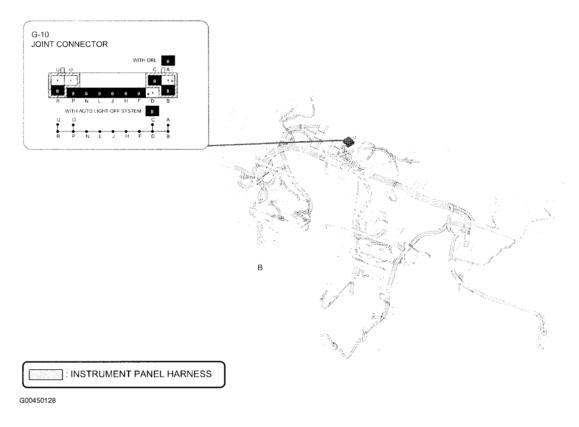


Fig. 26: Dash Courtesy of MAZDA MOTORS CORP.

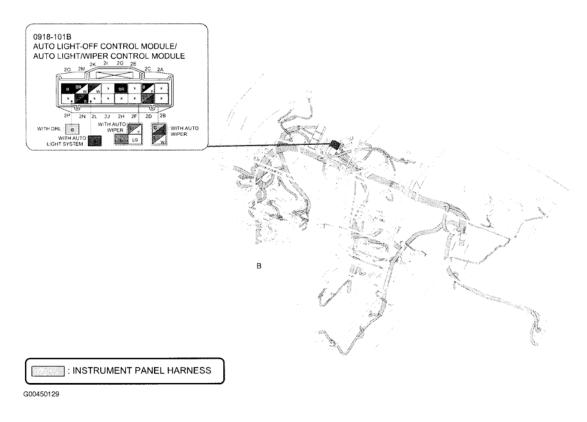


Fig. 27: Dash Courtesy of MAZDA MOTORS CORP.

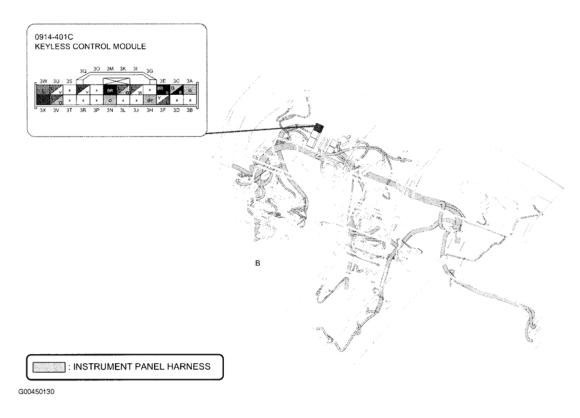
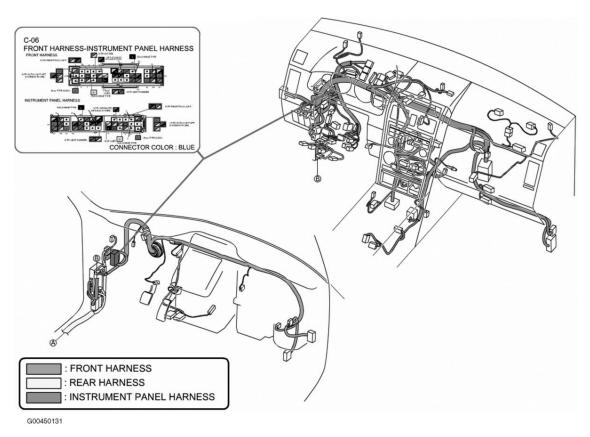
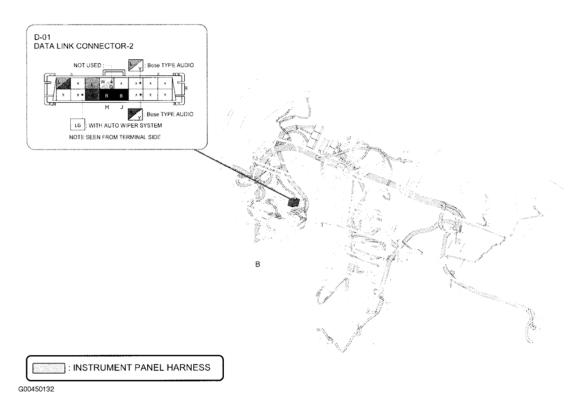


Fig. 28: Dash Courtesy of MAZDA MOTORS CORP.



<u>Fig. 29: Dash</u> Courtesy of MAZDA MOTORS CORP.



<u>Fig. 30: Dash</u> Courtesy of MAZDA MOTORS CORP.

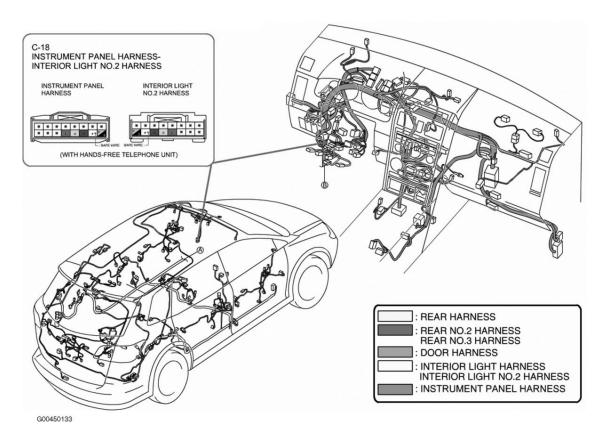


Fig. 31: Left Kick Panel Courtesy of MAZDA MOTORS CORP.

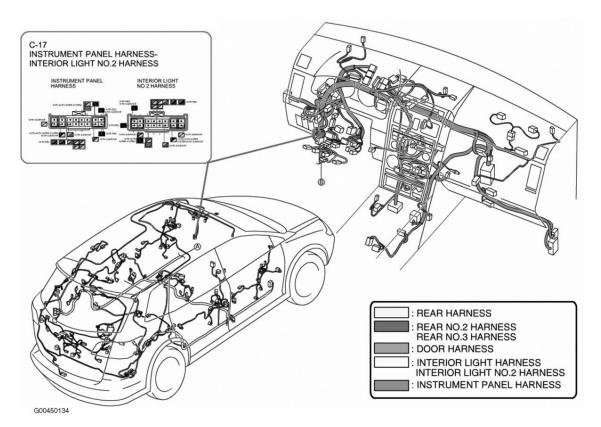


Fig. 32: Left Kick Panel Courtesy of MAZDA MOTORS CORP.

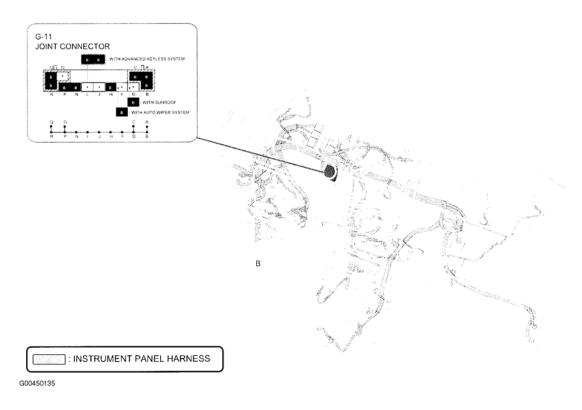


Fig. 33: Dash Courtesy of MAZDA MOTORS CORP.

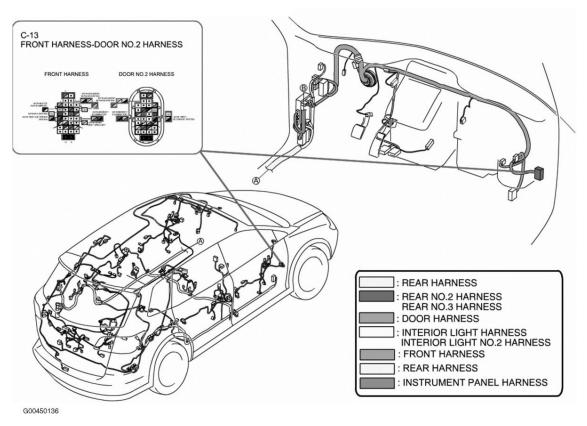
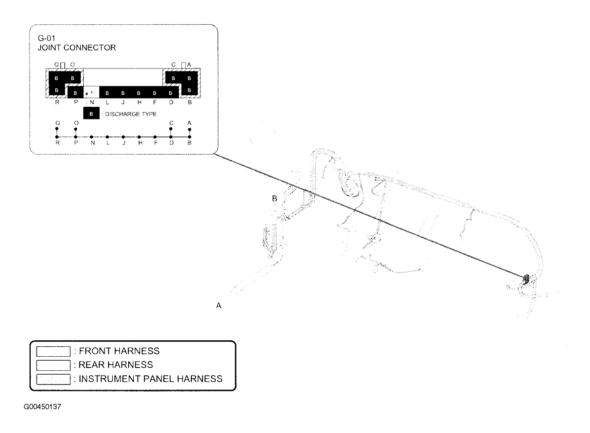
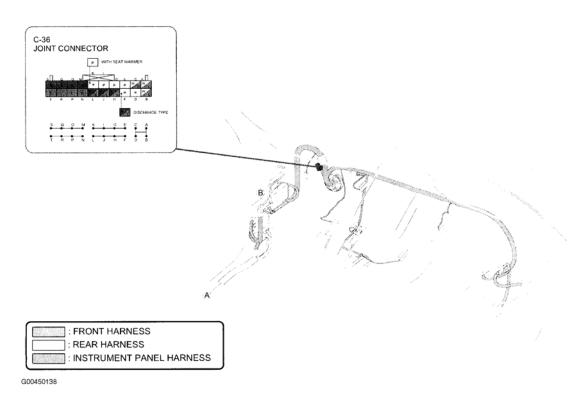


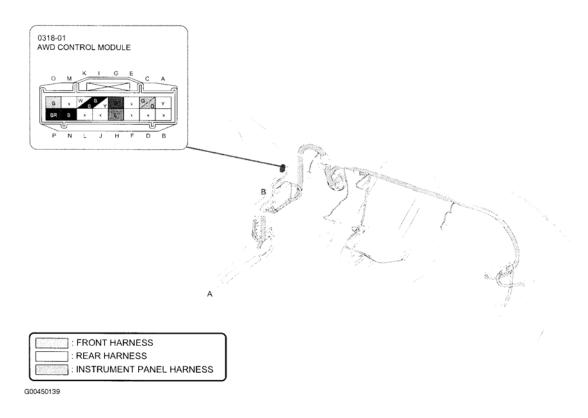
Fig. 34: Right Kick Panel Courtesy of MAZDA MOTORS CORP.



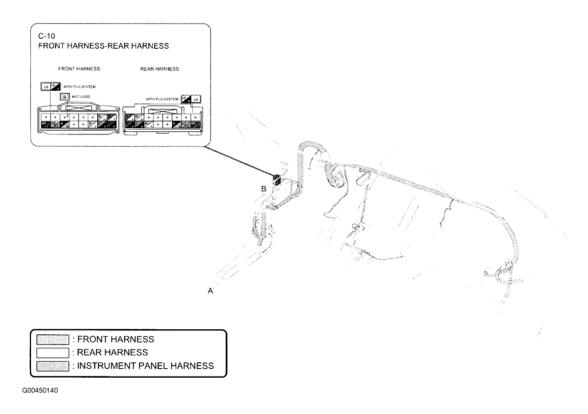
<u>Fig. 35: Right Kick Panel</u> Courtesy of MAZDA MOTORS CORP.



<u>Fig. 36: Dash</u> Courtesy of MAZDA MOTORS CORP.



<u>Fig. 37: Dash</u> Courtesy of MAZDA MOTORS CORP.



<u>Fig. 38: Left Kick Panel</u> Courtesy of MAZDA MOTORS CORP.

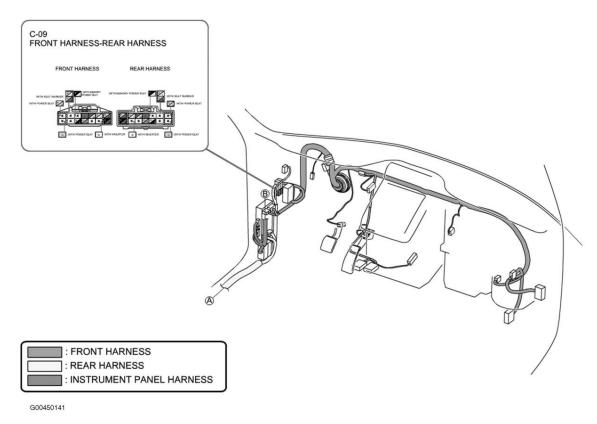


Fig. 39: Left Kick Panel Courtesy of MAZDA MOTORS CORP.

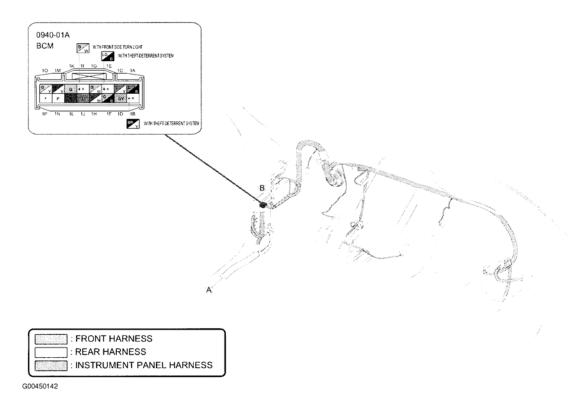


Fig. 40: Left Kick Panel Courtesy of MAZDA MOTORS CORP.

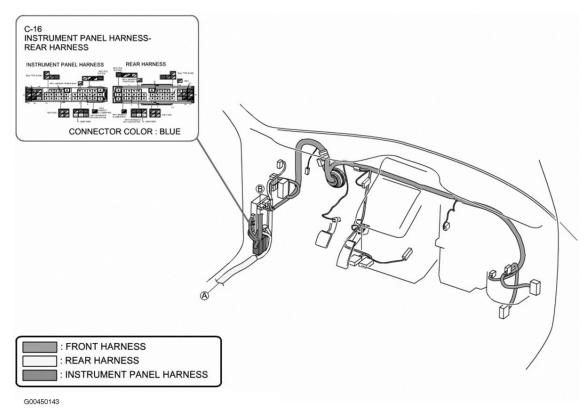
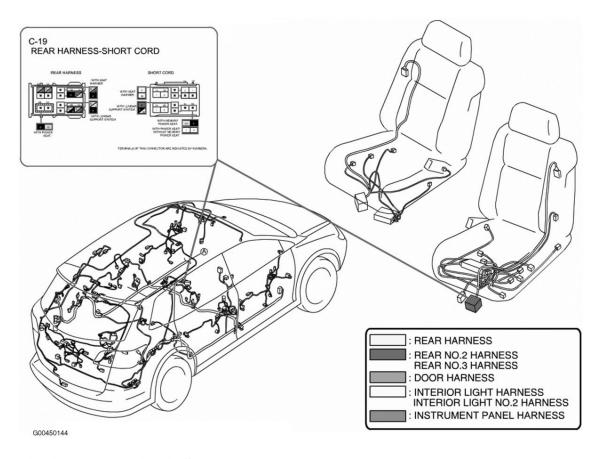
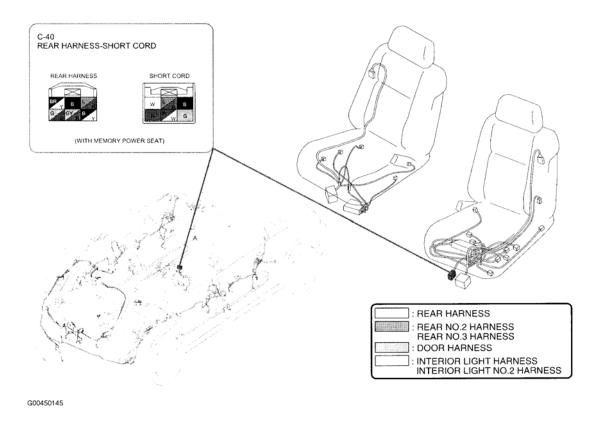


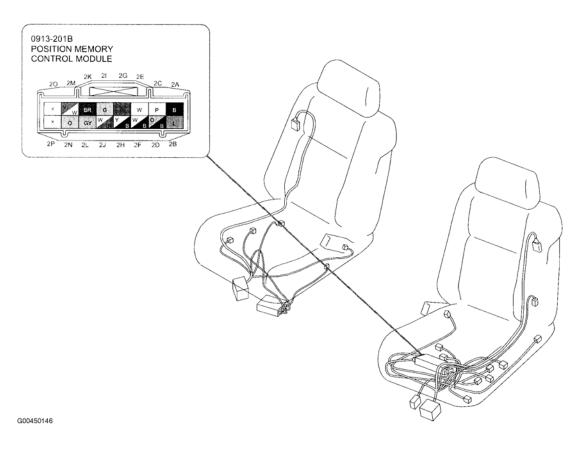
Fig. 41: Left Kick Panel Courtesy of MAZDA MOTORS CORP.



<u>Fig. 42: Under Driver's Seat</u> Courtesy of MAZDA MOTORS CORP.



<u>Fig. 43: Under Driver's Seat</u> Courtesy of MAZDA MOTORS CORP.



<u>Fig. 44: Driver's Seat</u> Courtesy of MAZDA MOTORS CORP.

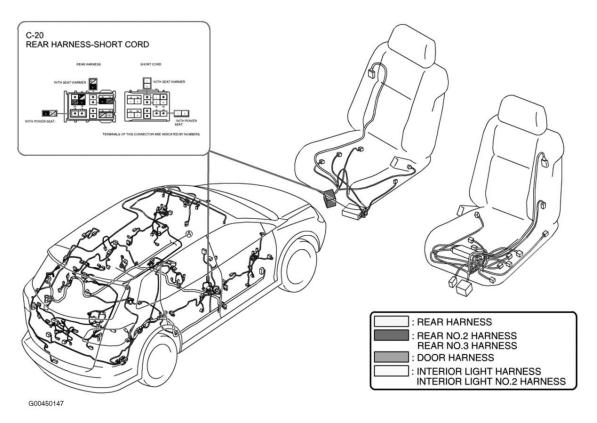
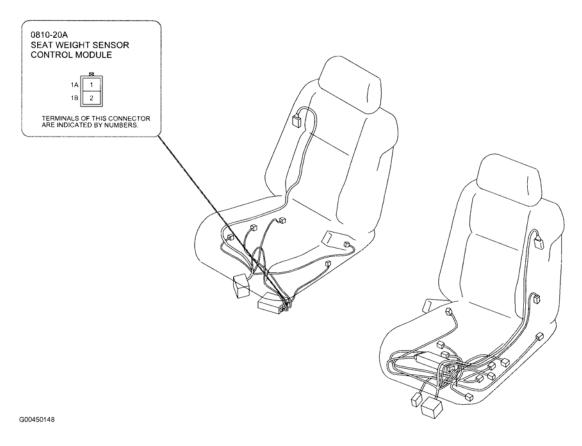


Fig. 45: Under Front Passenger's Seat Courtesy of MAZDA MOTORS CORP.



<u>Fig. 46: Front Passenger's Seat</u> Courtesy of MAZDA MOTORS CORP.

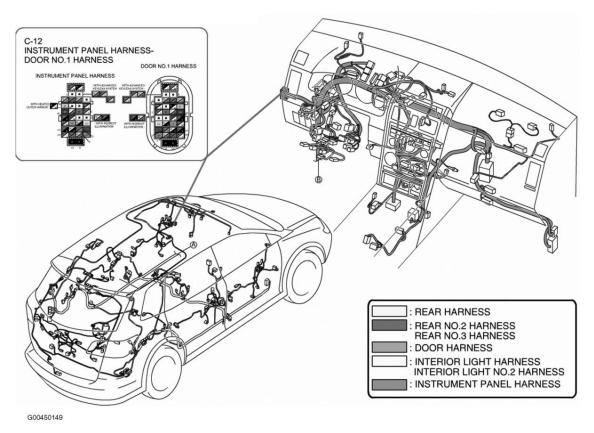


Fig. 47: Left Kick Panel Courtesy of MAZDA MOTORS CORP.

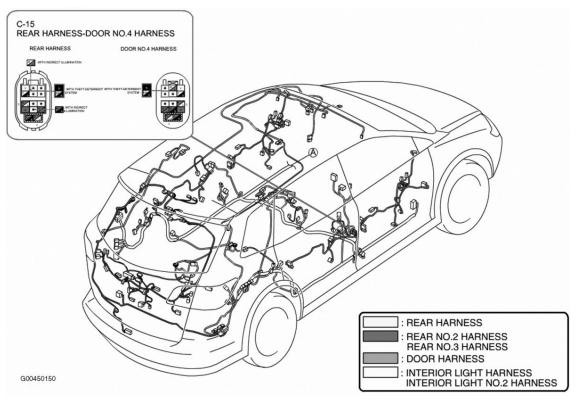


Fig. 48: Right Side Of Vehicle Courtesy of MAZDA MOTORS CORP.

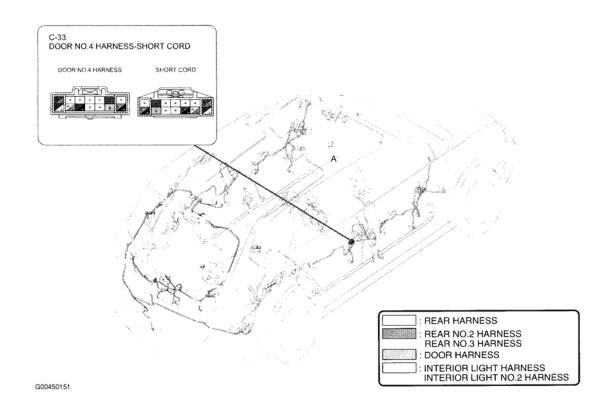


Fig. 49: Right Rear Door
Courtesy of MAZDA MOTORS CORP.

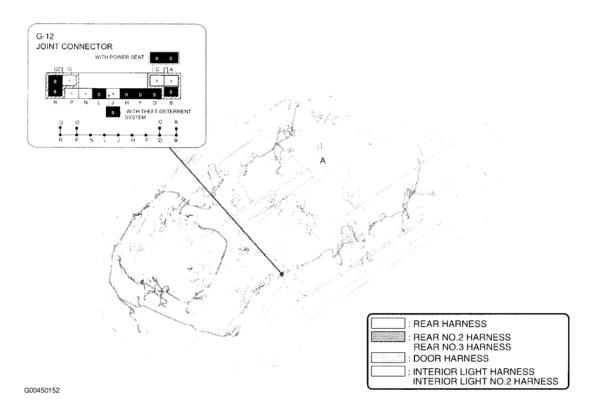


Fig. 50: Right Side Of Vehicle Courtesy of MAZDA MOTORS CORP.

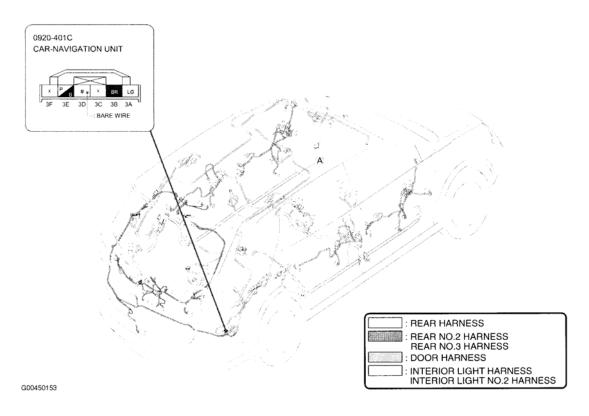


Fig. 51: Right Rear Of Vehicle Courtesy of MAZDA MOTORS CORP.

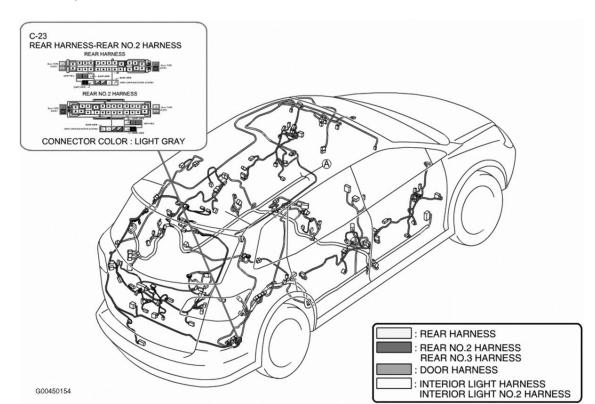
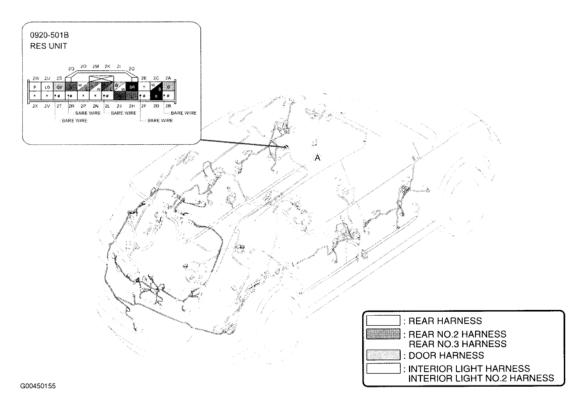
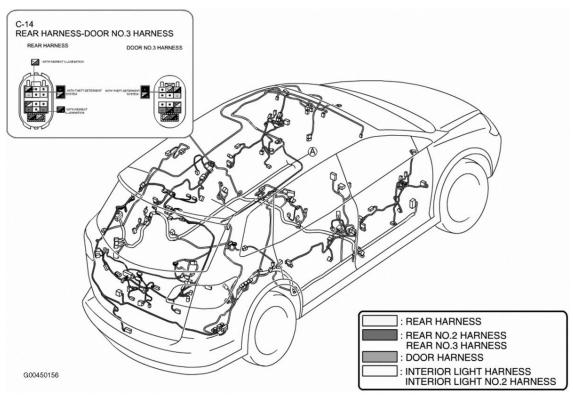


Fig. 52: Right Rear Of Vehicle Courtesy of MAZDA MOTORS CORP.



<u>Fig. 53: Roof</u> Courtesy of MAZDA MOTORS CORP.



<u>Fig. 54: Left Side Of Vehicle</u> Courtesy of MAZDA MOTORS CORP.

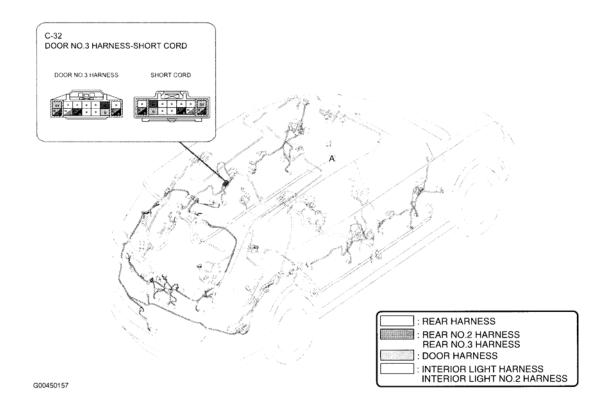
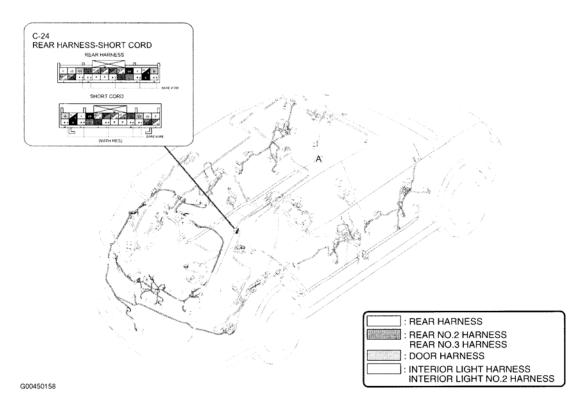
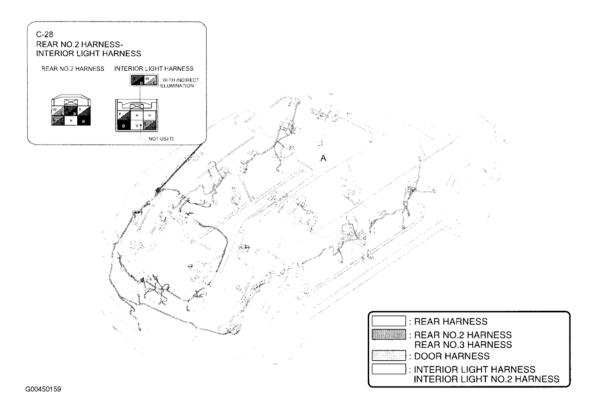


Fig. 55: Left Rear Door
Courtesy of MAZDA MOTORS CORP.



<u>Fig. 56: Right Side Of Vehicle</u> Courtesy of MAZDA MOTORS CORP.



<u>Fig. 57: Left Side Of Vehicle</u> Courtesy of MAZDA MOTORS CORP.

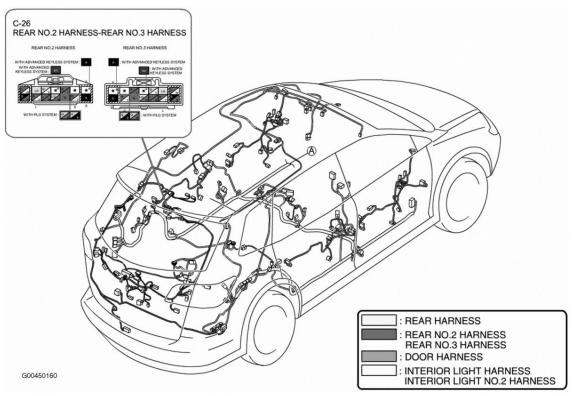


Fig. 58: Roof Courtesy of MAZDA MOTORS CORP.

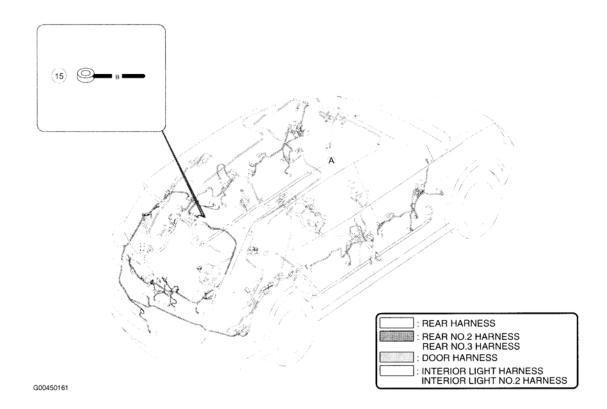
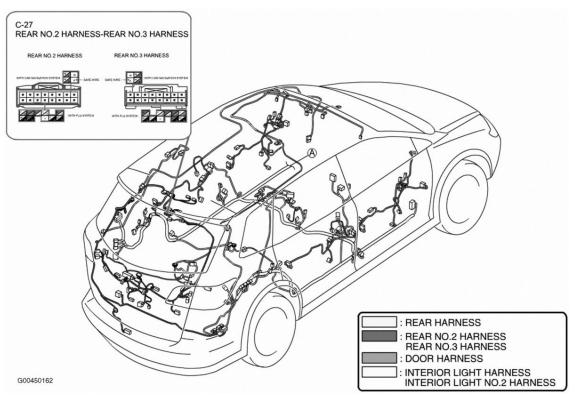
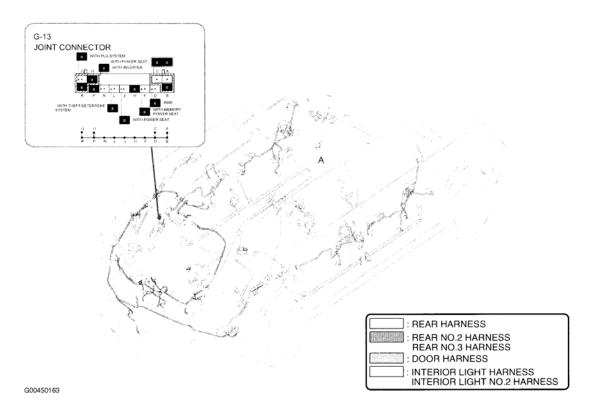


Fig. 59: Roof Courtesy of MAZDA MOTORS CORP.



<u>Fig. 60: Roof</u> Courtesy of MAZDA MOTORS CORP.



<u>Fig. 61: Left Side Of Vehicle</u> Courtesy of MAZDA MOTORS CORP.

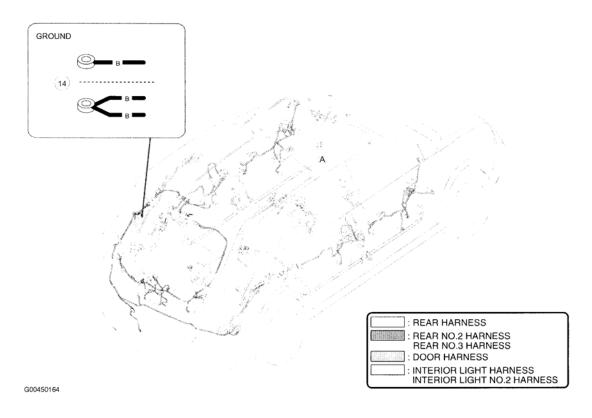


Fig. 62: Left Side Of Vehicle Courtesy of MAZDA MOTORS CORP.

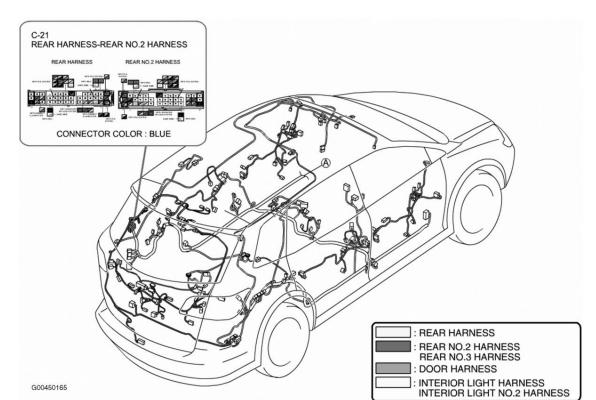
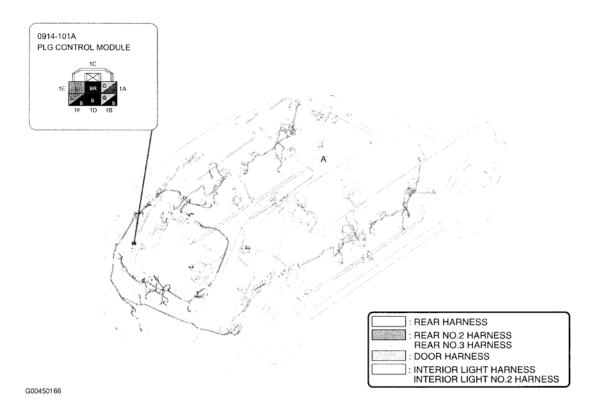


Fig. 63: Left Side Of Vehicle Courtesy of MAZDA MOTORS CORP.



<u>Fig. 64: Left Rear Of Vehicle</u> Courtesy of MAZDA MOTORS CORP.