

Mazda2

Wiring Diagram

FOREWORD

This wiring diagram incorporates the wiring schematics of the basic vehicle and available optional equipment. Actual vehicle wiring may vary slightly depending on optional equipment or local specifications, or both. All information in this booklet is based on information available at the time of printing. Mazda Motor Corporation reserves the right to make changes without previous notice.

Mazda Motor Corporation
HIROSHIMA, JAPAN

APPLICATION:

This manual applies to vehicles beginning with the Vehicle Identification Numbers (VIN) on the following page.

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GENERAL INFORMATION OF WIRING DIAGRAMS	GI
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WARNING

Servicing a vehicle can be dangerous. If you have not received service-related training, the risks of injury, property damage, and failure of servicing increase. The recommended servicing procedures for the vehicle in this workshop manual were developed with Mazda-trained technicians in mind. This manual may be useful to non-Mazda trained technicians, but a technician with our service-related training and experience will be at less risk when performing service operations. However, all users of this manual are expected at least to know general safety procedures.

This manual contains “Warnings” and “Cautions” applicable to risks not normally encountered in a general technician’s experience. They should be followed to reduce the risk of injury and the risk that improper service or repair may damage the vehicle or render it unsafe. It is also important to understand that the “Warnings” and “Cautions” are not exhaustive. It is impossible to warn of all the hazardous consequences that might result from failure to follow the procedures.

The procedures recommended and described in this manual are effective methods of performing service and repair. Some require tools specifically designed for a specific purpose. Persons using procedures and tools which are not recommended by Mazda Motor Corporation must satisfy themselves thoroughly that neither personal safety nor safety of the vehicle will be jeopardized.

The contents of this manual, including drawings and specifications, are the latest available at the time of printing, and Mazda Motor Corporation reserves the right to change the vehicle designs and alter the contents of this manual without notice and without incurring obligation.

Parts should be replaced with genuine Mazda replacement parts or with parts which match the quality of genuine Mazda replacement parts. Persons using replacement parts of lesser quality than that of genuine Mazda replacement parts must satisfy themselves thoroughly that neither personal safety nor safety of the vehicle will be jeopardized.

Mazda Motor Corporation is not responsible for any problems which may arise from the use of this manual. The cause of such problems includes but is not limited to insufficient service-related training, use of improper tools, use of replacement parts of lesser quality than that of genuine Mazda replacement parts, or not being aware of any revision of this manual.

VEHICLE IDENTIFICATION NUMBERS (VIN) (CHASSIS NUMBER)

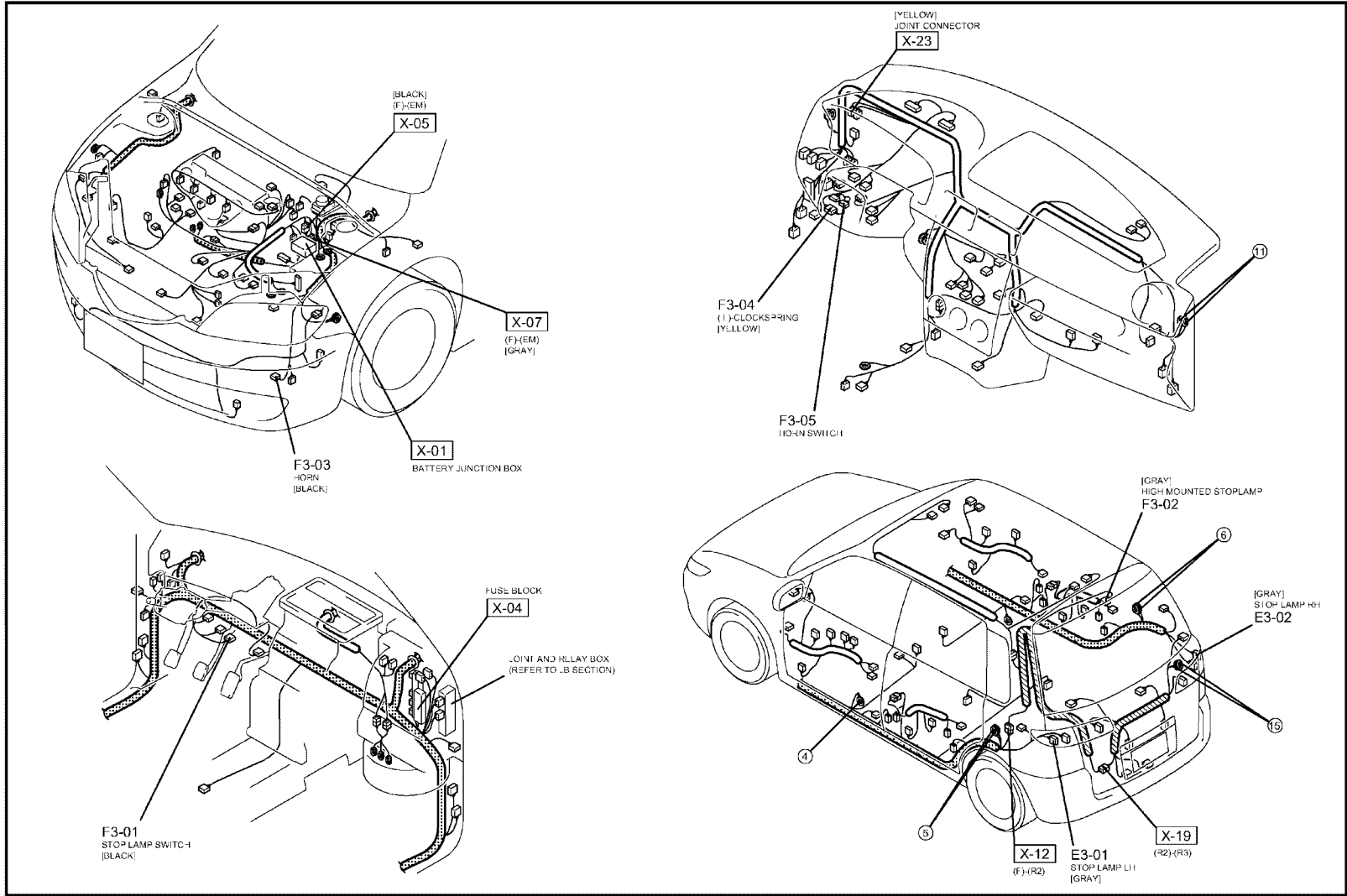
JMZ NB2WPJN** 00001—
 JMZ NC2WPJN** 00001—
 JMZ NCAWPJ*** 00001—
 JMZ NCAWPJN** 00001—
 JMZ ND2WPJN** 00001—
 JMZ NE2WPJN** 00001—
 JMZ NEAWPJN** 00001—

WIRING COLOR CODE

COLOR	CODE	COLOR	CODE
BLACK	B	ORANGE	O
BLUE	L	PINK	P
BROWN	BR	RED	R
DARK BLUE	DL	SKY BLUE	SB
DARK GREEN	DG	TAN	T
GRAY	GY	VIOLET	V
GREEN	G	WHITE	W
LIGHT BLUE	LB	YELLOW	Y
LIGHT GREEN	LG		

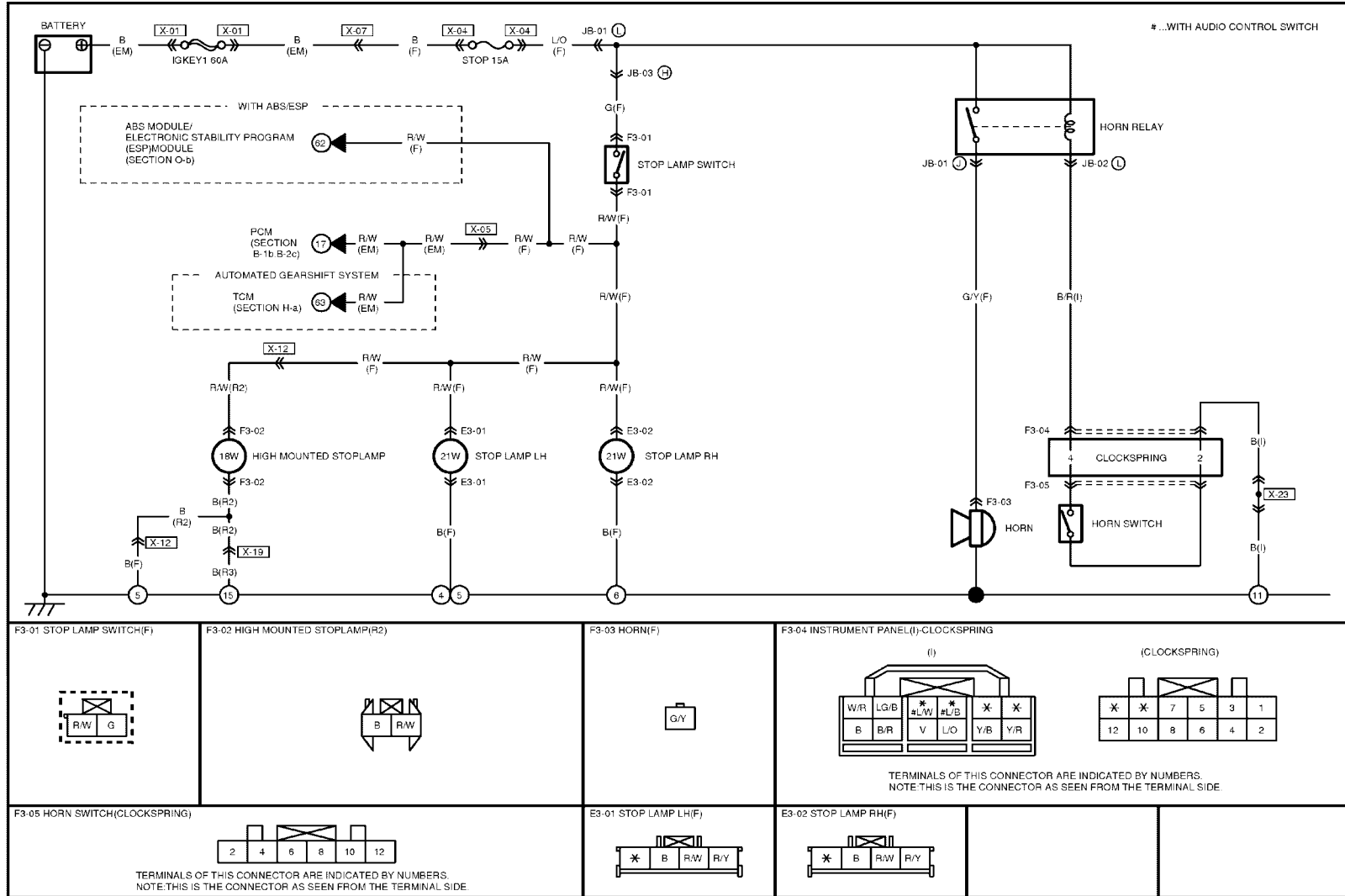
HARNES SYMBOL:  (F)  (E)  (R)

84-1



F-3

HIGH MOUNTED STOPLAMP / HORN / STOP LAMP



Applied VIN (assumed):
JMZ XXXXXXXX4SXXXXX

Mazda2 Wiring Diagram (5571-1E-02L)

84-2

Added 2/2005 (Ref. No. L047/05)

Service Information

Mazda Motor Corporation
P.O.Box 18, Hiroshima
730-8670 Japan



MAZDA

Category No.	Literature	Ref. No. L099/04	Page 1 of 1
Coverage <input type="checkbox"/> Distributor only <input checked="" type="checkbox"/> Please inform your dealers		Date issued June 29, 2004	
Please convey this information to your <input type="checkbox"/> Warranty Dept. <input type="checkbox"/> Parts Dept. <input checked="" type="checkbox"/> Training Dept. <input checked="" type="checkbox"/> Field Rep		<input type="checkbox"/> Director <input checked="" type="checkbox"/> General Manager	
Applicable Model Mazda2		Applicable Country or Specification European (L.H.D.) specs.	

Subject: Additions/Changes to Service Materials

The additions and/or changes have been made to the following service materials in response to engineering modifications due to engineering changes in July, 2004.

Attached are copies of the pages to be added or revised. Please make copies of these sheets as necessary, then insert and/or replace the applicable pages in each manual in the Mazda2 binder with the attached pages. The material to be corrected is shown on the top of each page.

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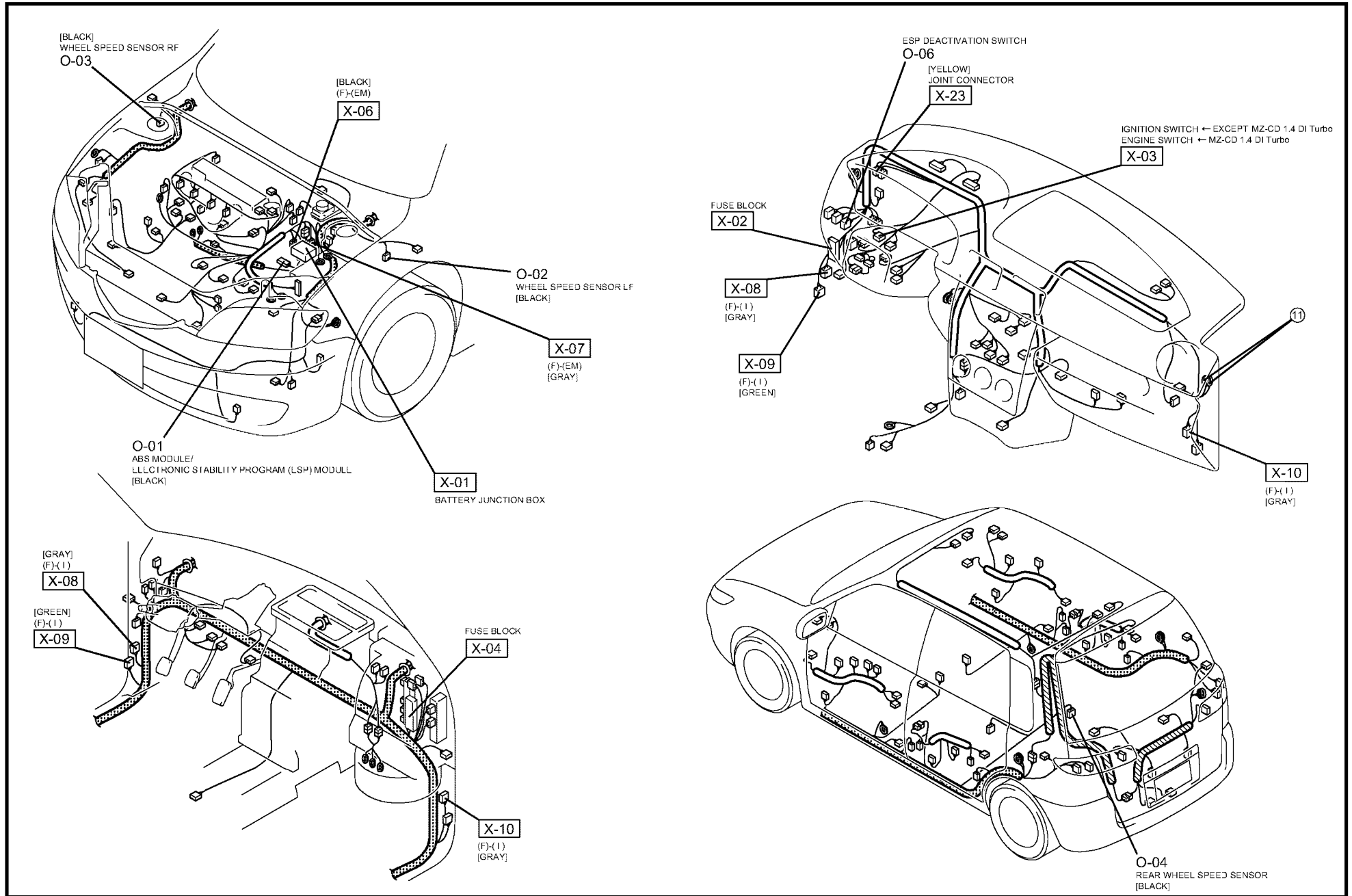
Applied Materials:

Manual Name (Form No.)	Page (Non-Revised Page is shown in italics.)	Remarks
Mazda2 Wiring Diagram (5571-1E-02L)	<i>120-1, 120-2, 121, 122</i> <i>122-1, 122-2, 123, 124</i>	ABS MODULE

Service Material Planning Group
Vehicle Service & Program Department

HARNESS SYMBOL:  (F)  (E)  (R)

120-1



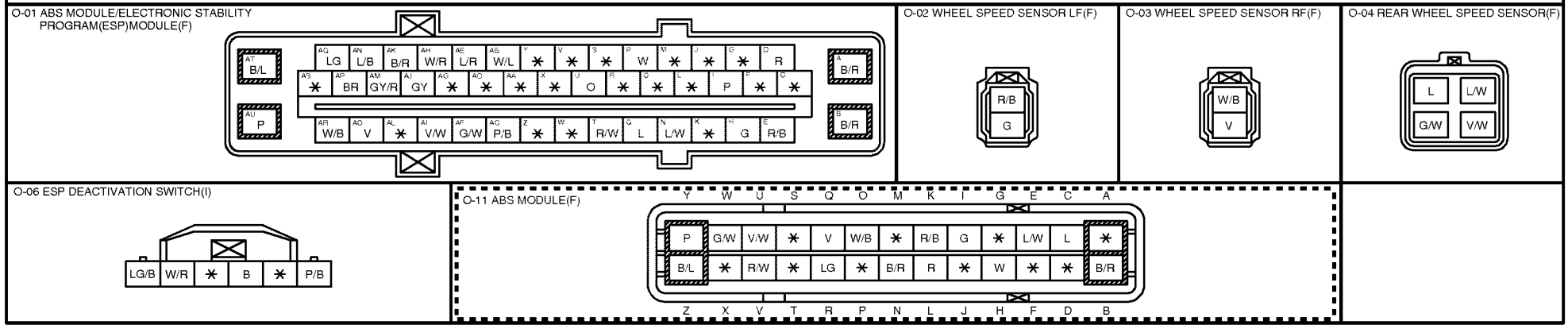
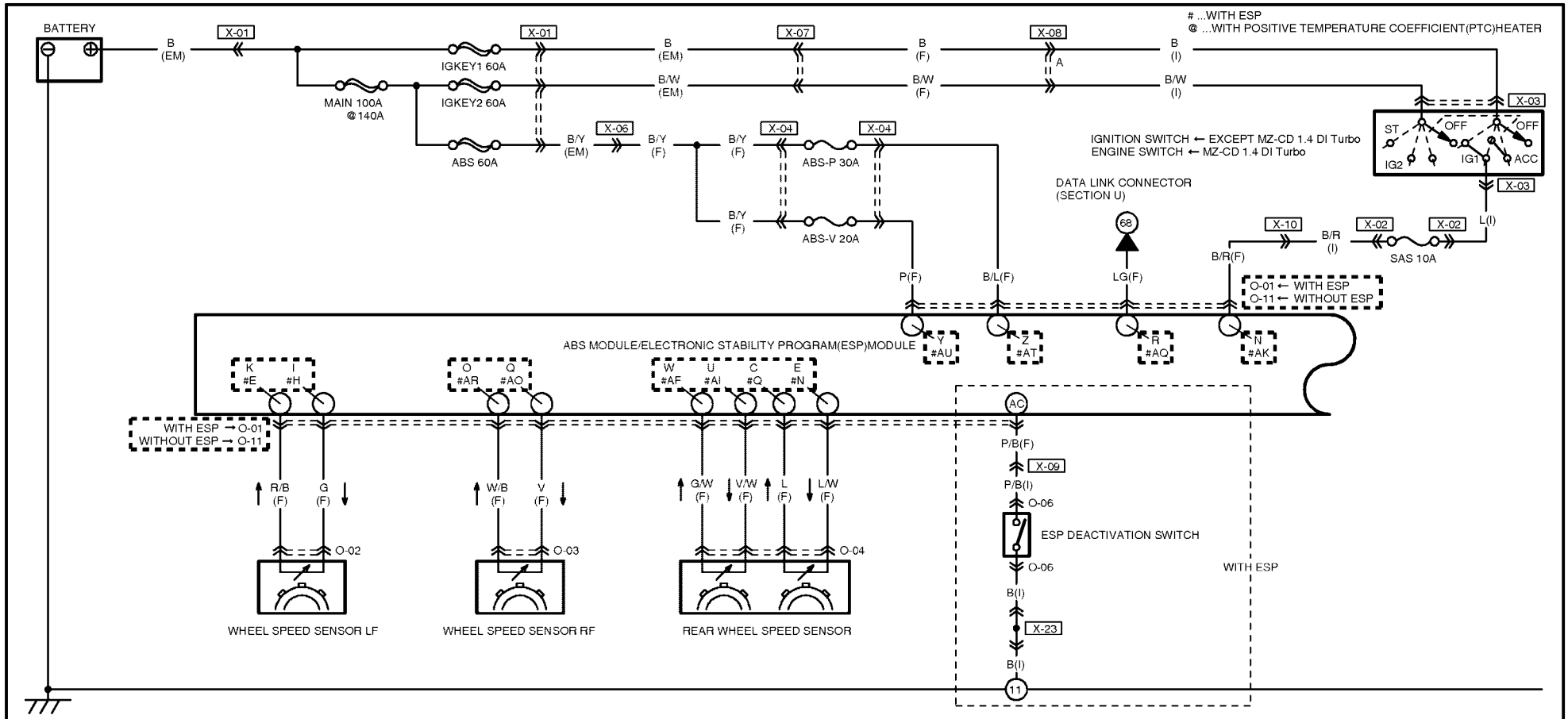
O-a

ANTILOCK BRAKE SYSTEM (ABS) / ELECTRONIC STABILITY PROGRAM (ESP)

O-a

Applied VIN (assumed) : JMZ XXXXXXX4DXXXXX

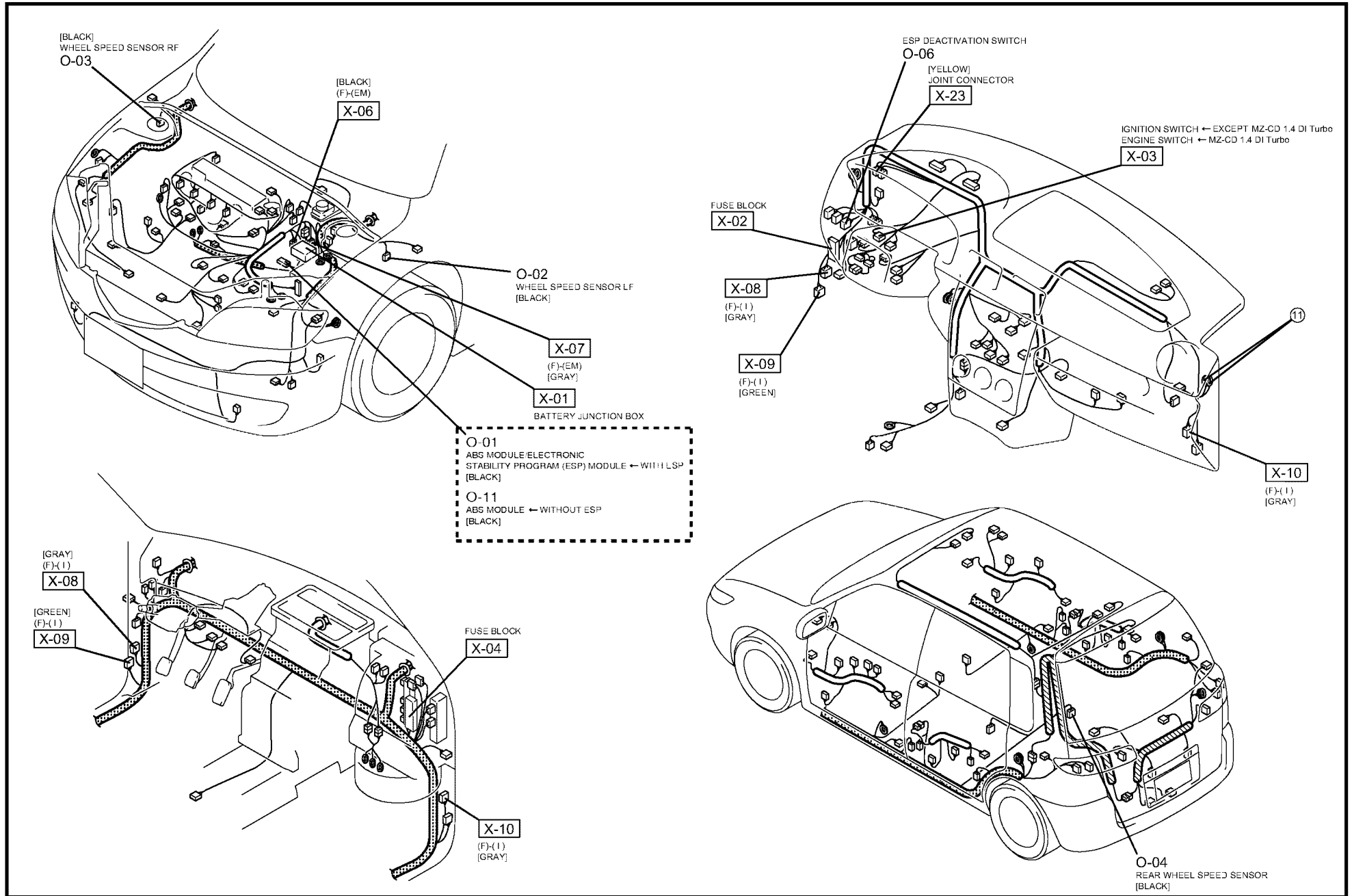
Mazda2 Wiring Diagram (5571-1E-02L)



120-2

Added 6/2004 (Ref. No. L099/04)

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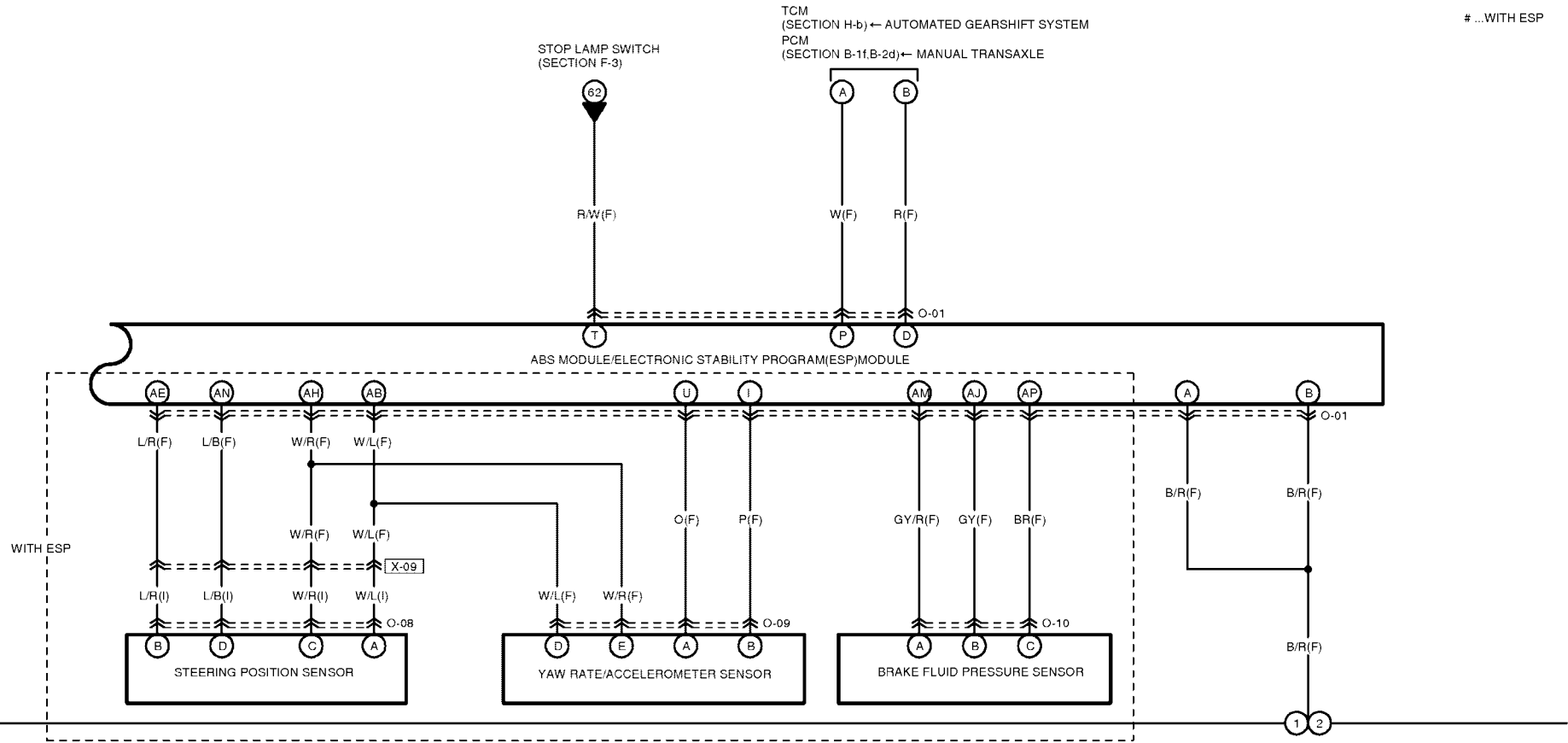
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Mazda2 Wiring Diagram (5571-1E-02L)

ANTILOCK BRAKE SYSTEM (ABS) / ELECTRONIC STABILITY PROGRAM (ESP)

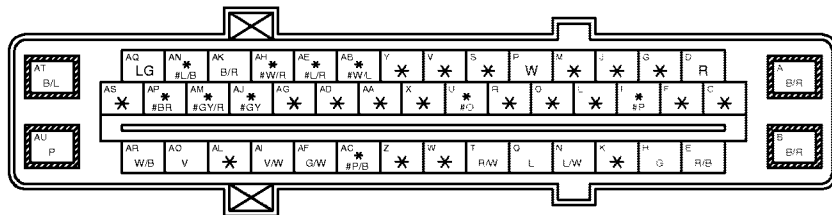
O-b

...WITH ESP



122

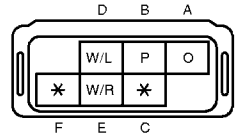
O-01 ABS MODULE/ELECTRONIC STABILITY PROGRAM(ESP)MODULE(F)



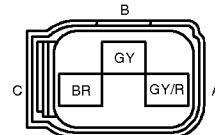
O-08 STEERING POSITION SENSOR(I)



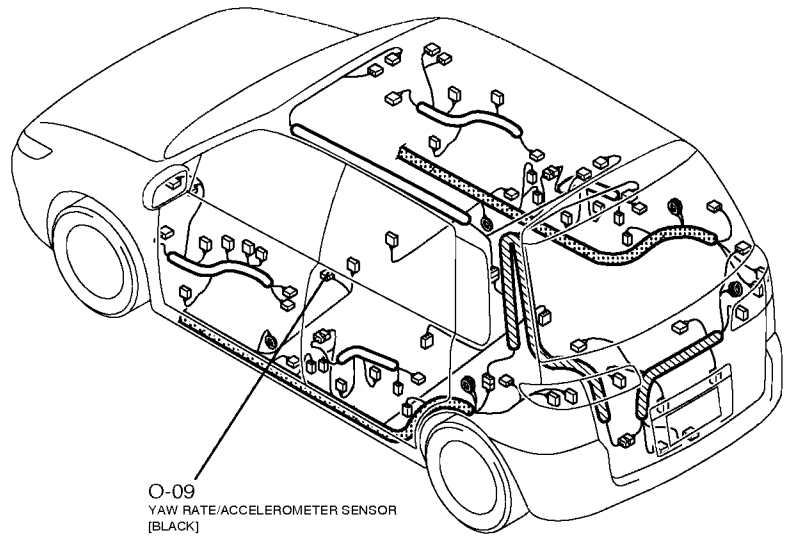
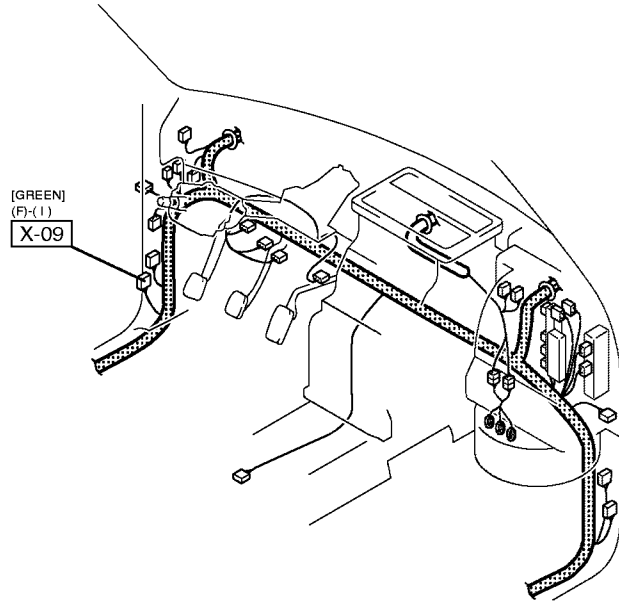
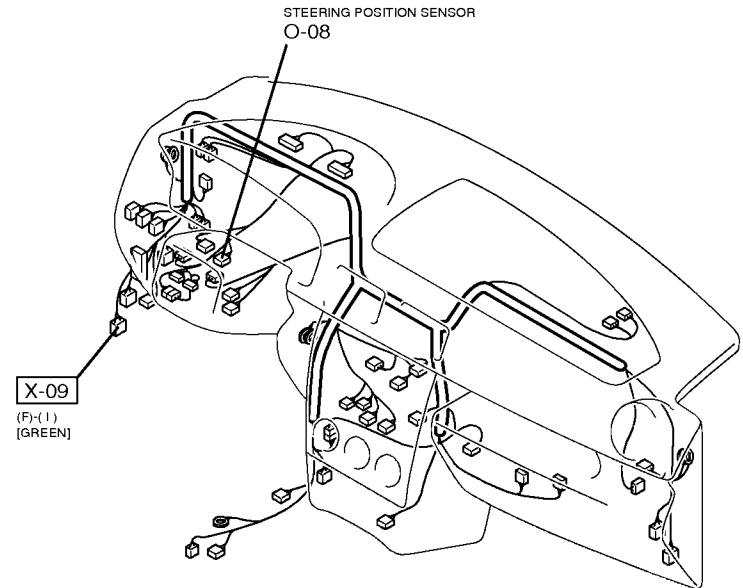
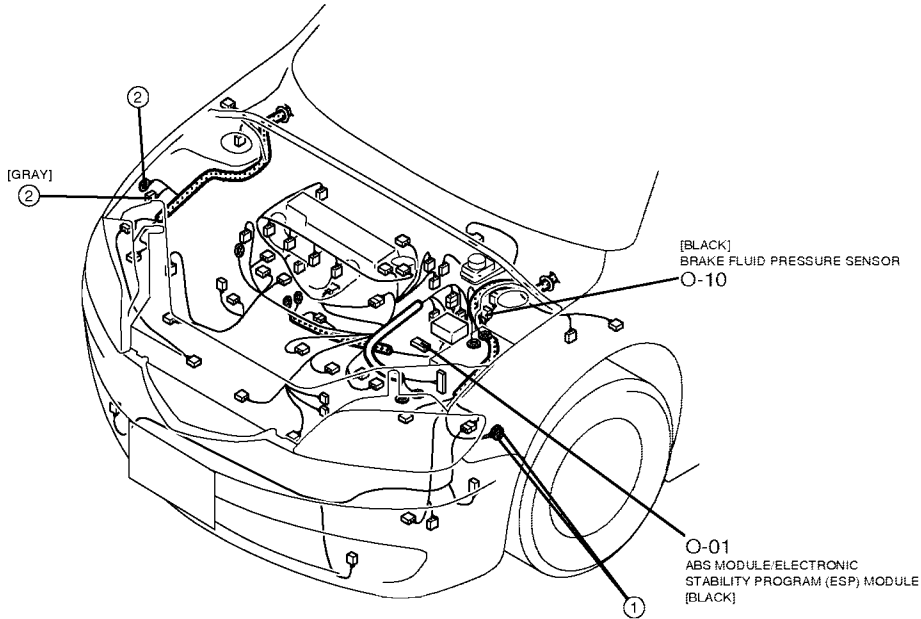
O-09 YAW RATE/ACCELEROMETER SENSOR(F)



O-10 BRAKE FLUID PRESSURE SENSOR(F)



HARNESS SYMBOL:  (F)  (E)  (R)



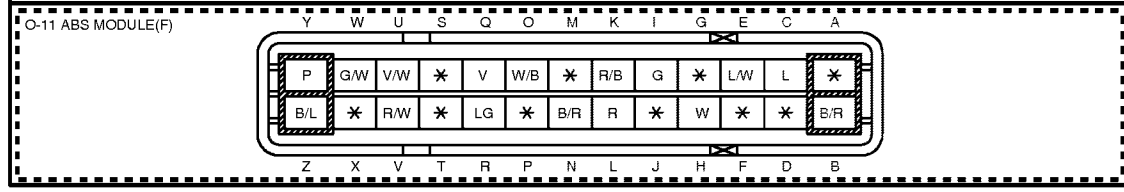
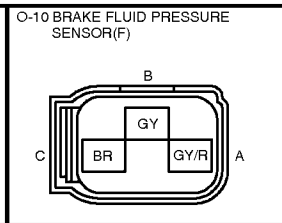
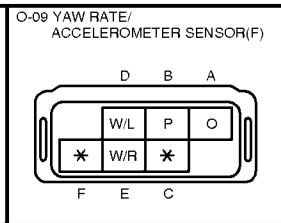
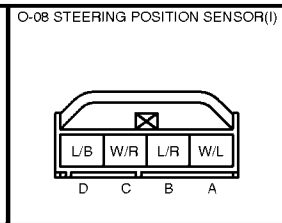
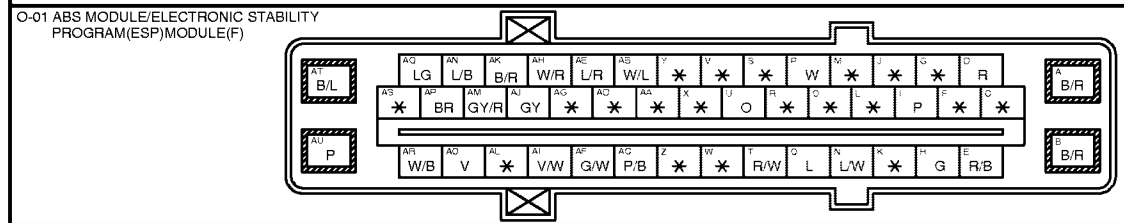
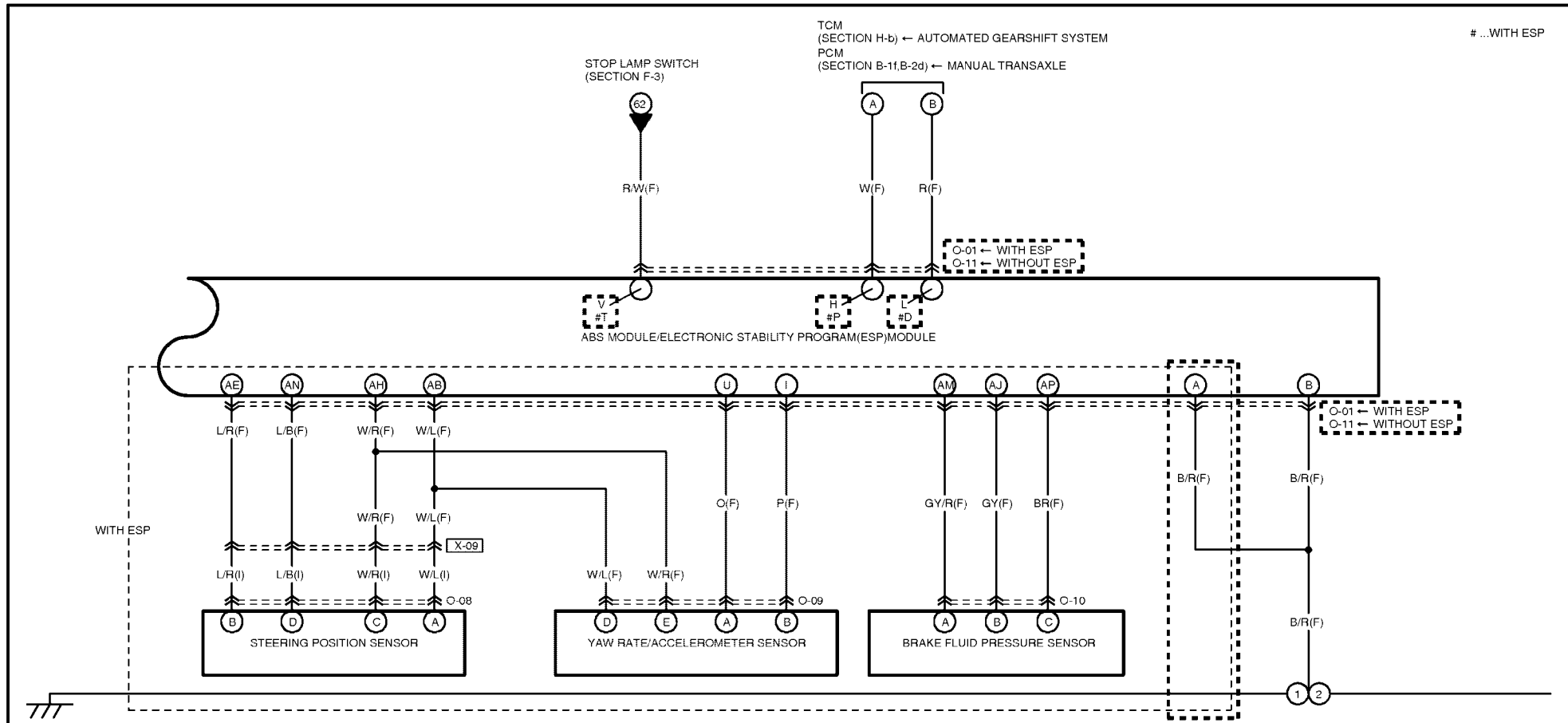
122-1

ANTILOCK BRAKE SYSTEM (ABS) / ELECTRONIC STABILITY PROGRAM (ESP)

O-b

Applied VIN (assumed) :
JMZ XXXXXXX4DXXXXX

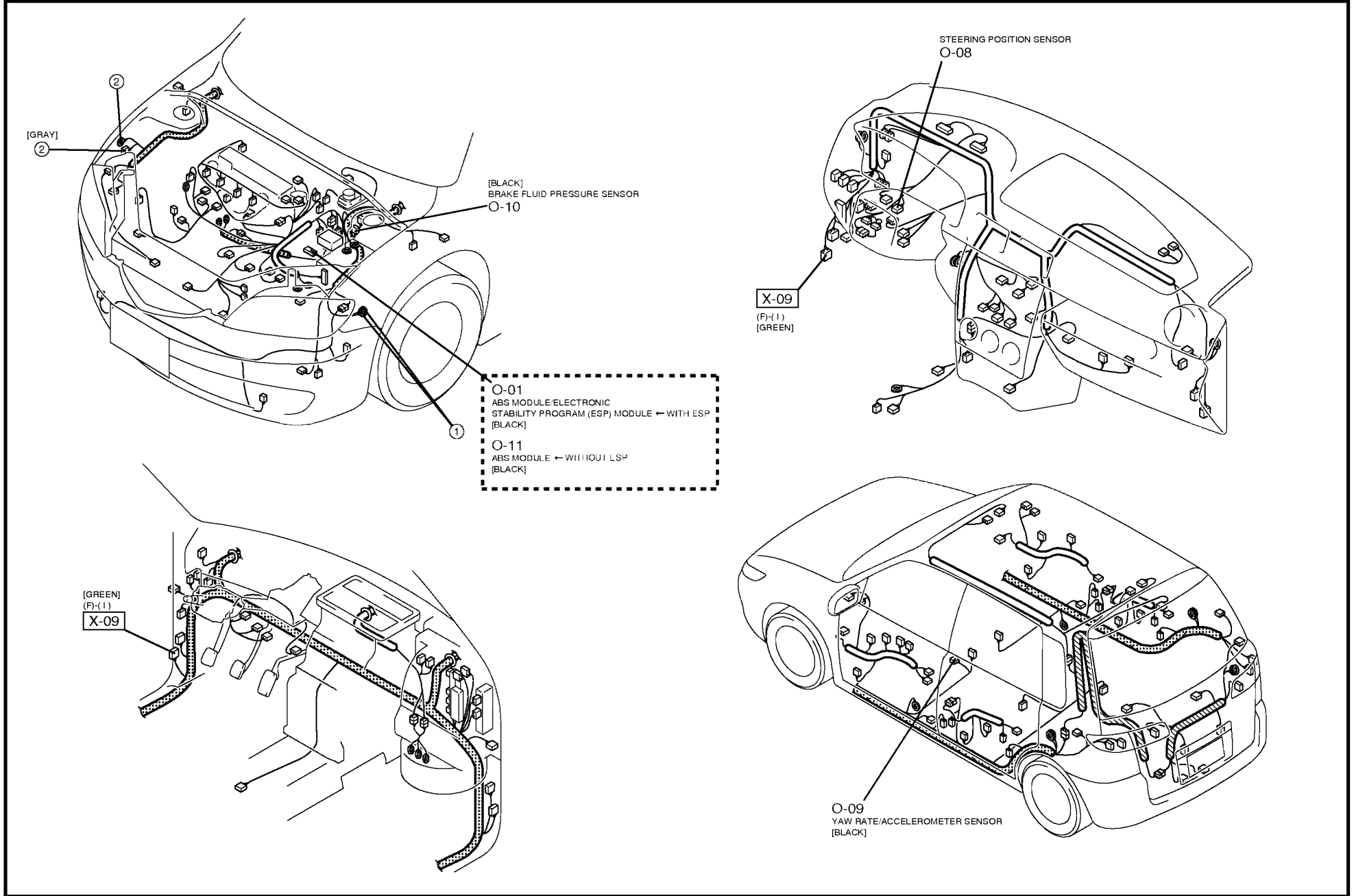
Mazda2 Wiring Diagram (5571-1E-02L)



122-2

Added 6/2004 (Ref. No. L099/04)

HARNESS SYMBOL:  (F)  (E)  (R)

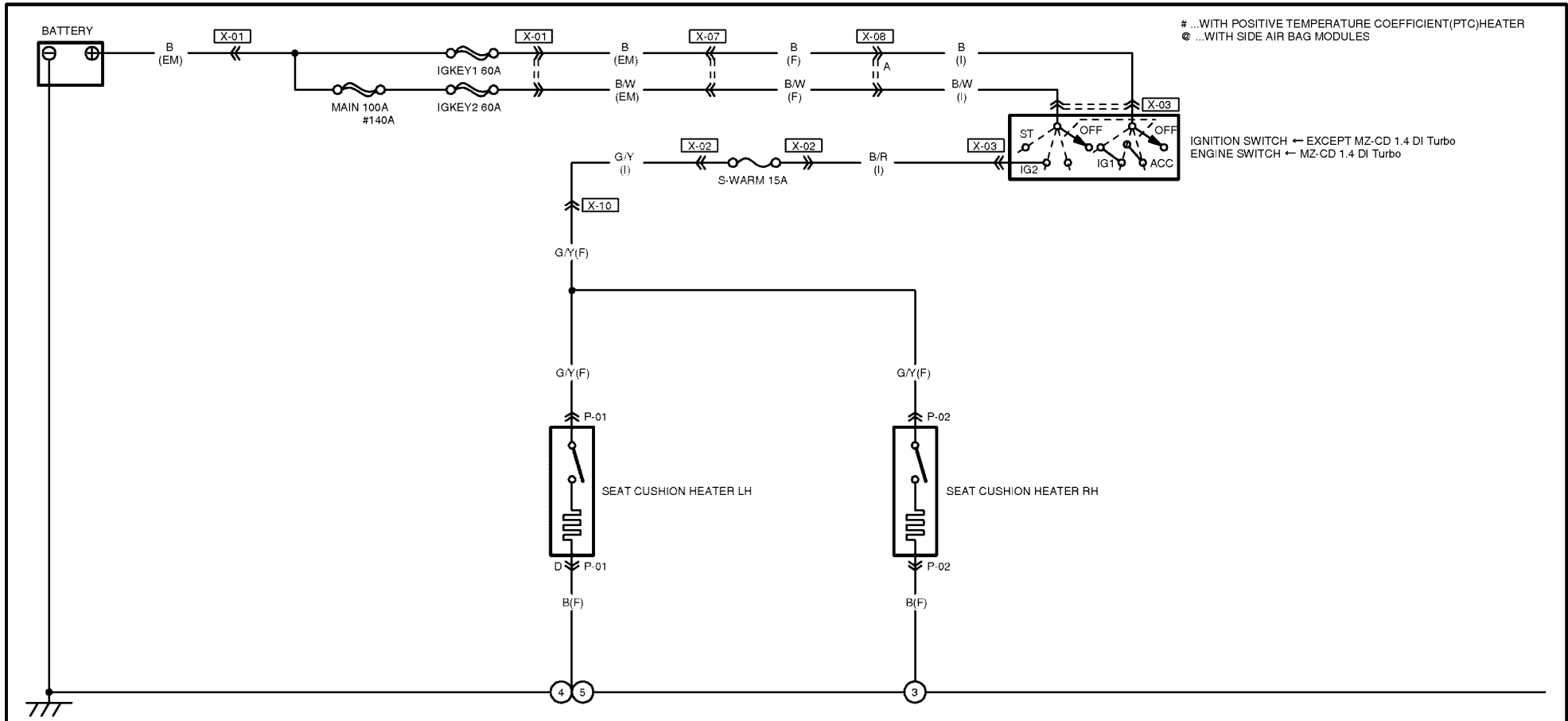


Applied VIN (assumed) : JMZ XXXXXXXX4DXXXXXX

Mazda2 Wiring Diagram (5571-1E-02L)

SEAT CUSHION HEATER

P



...WITH POSITIVE TEMPERATURE COEFFICIENT(PTC)HEATER
 @ ...WITH SIDE AIR BAG MODULES

IGNITION SWITCH ← EXCEPT MZ-CD 1.4 DI Turbo
 ENGINE SWITCH ← MZ-CD 1.4 DI Turbo

124

<p>P-01 SEAT CUSHION HEATER LH(F)</p>	<p>P-02 SEAT CUSHION HEATER RH(F)</p>					
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Service Information

Mazda Motor Corporation
P.O.Box 18, Hiroshima
730-8670 Japan



MAZDA

Category No.	Literature	Ref. No. L111/03	Page 1 of 1
Coverage <input type="checkbox"/> Distributor only <input checked="" type="checkbox"/> Please inform your dealers	Date issued August 5, 2003		
Please convey this information to your <input type="checkbox"/> Warranty Dept. <input type="checkbox"/> Parts Dept. <input checked="" type="checkbox"/> Training Dept. <input checked="" type="checkbox"/> Field Rep	<input type="checkbox"/> Director <input checked="" type="checkbox"/> General Manager	Attachment: 1	
Applicable Model Mazda2	Applicable Country or Specification European (L.H.D.) specs.		

Subject: Additions/Corrections to Service Materials

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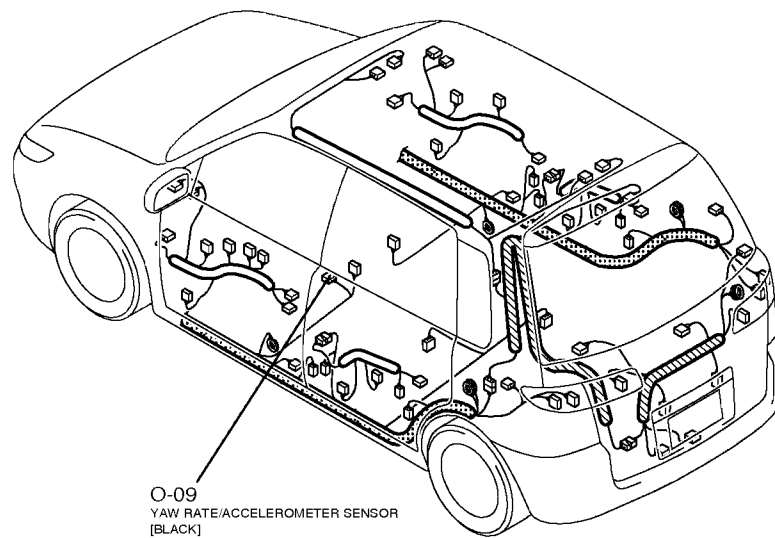
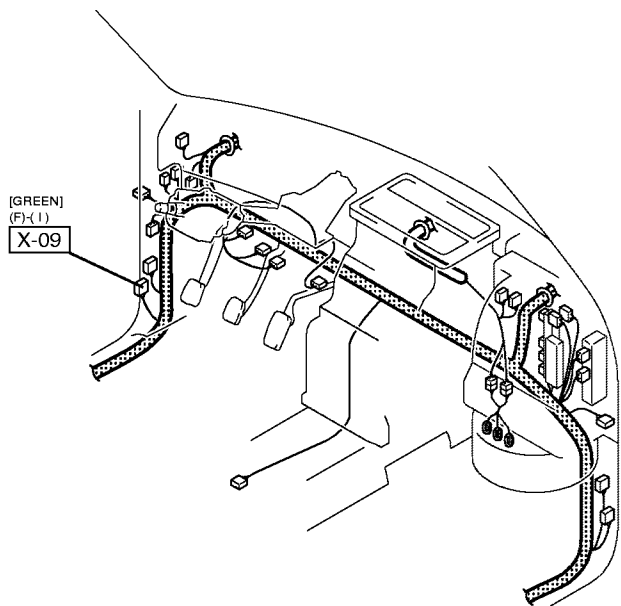
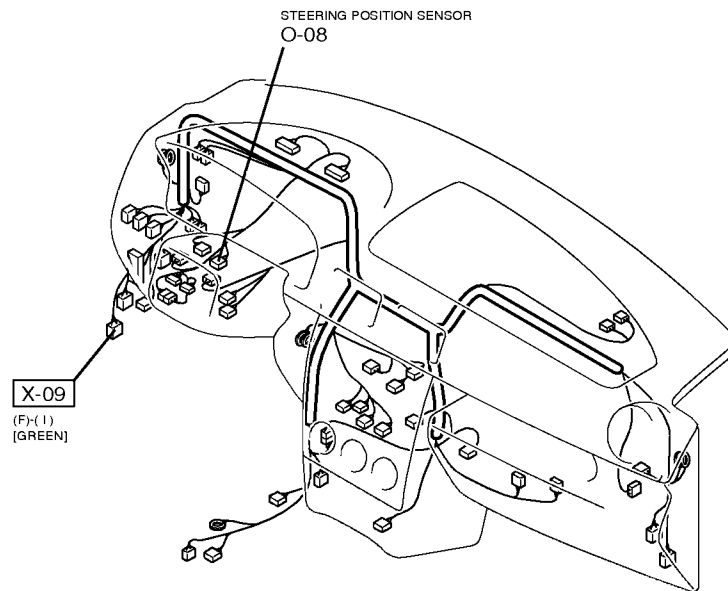
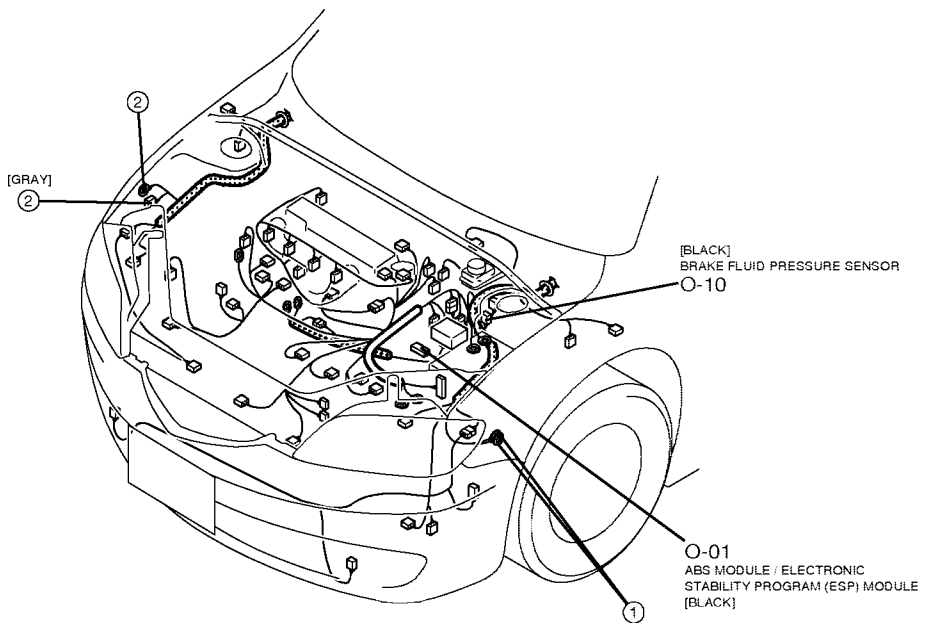
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Applied Materials:

Manual Name (Form No.)	Page (Non-Revised Page is shown in italics.)	Remarks
Mazda2 Wiring Diagram (5571-1E-02L)	<i>123, 124</i>	SEAT CUSHION HEATER

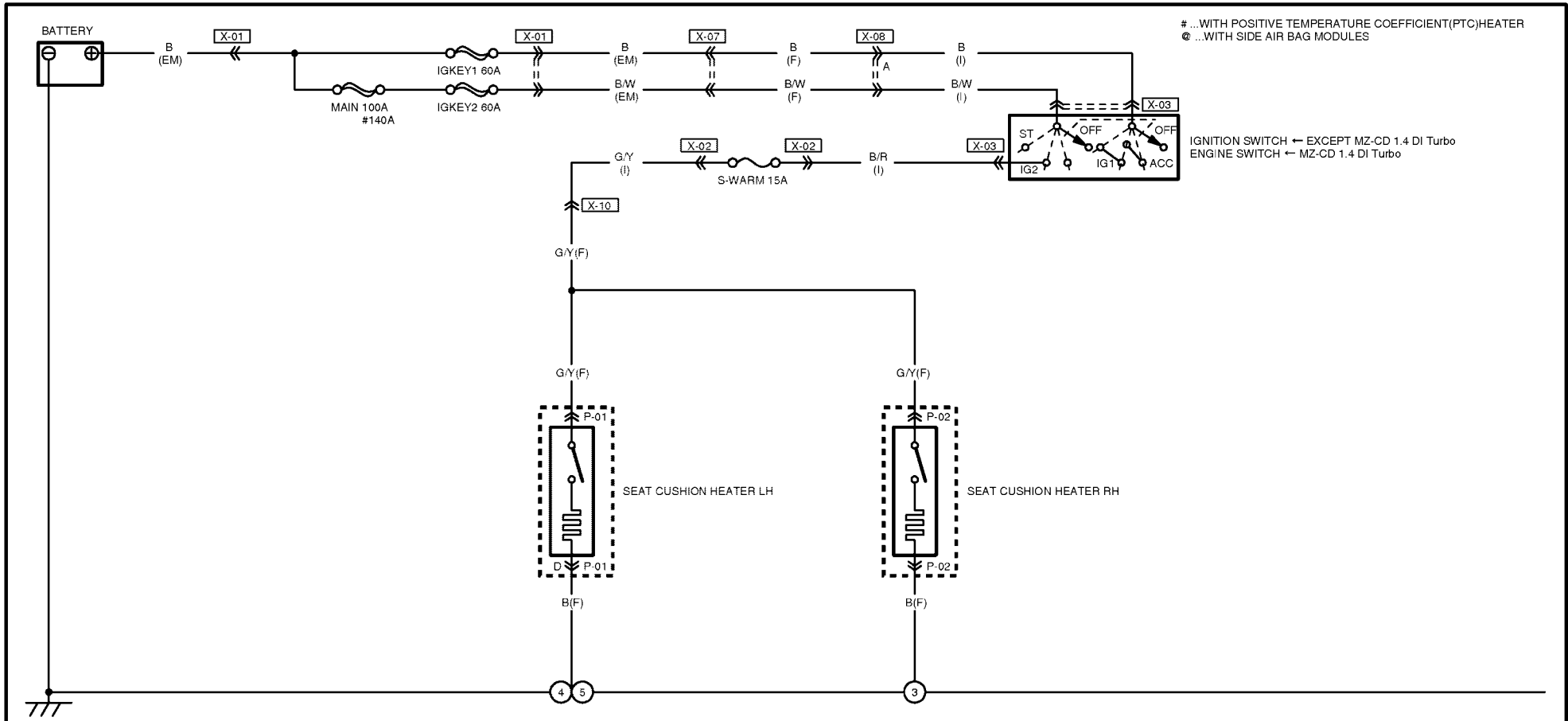
Service Material Planning Group
Vehicle Service & Program Department

HARNESS SYMBOL:  (F)  (E)  (R)



SEAT CUSHION HEATER

P



124

Revised 8/2003 (Ref. No. L1111/03)

Mazda2 Wiring Diagram (5571-1E-02L)

P-01 SEAT CUSHION HEATER LH(F)	P-02 SEAT CUSHION HEATER RH(F)					

Service Information

Mazda Motor Corporation
P.O.Box 18, Hiroshima
730-8670 Japan



MAZDA

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Applicable Model Mazda2	Applicable Country or Specification European (L.H.D.) specs.		

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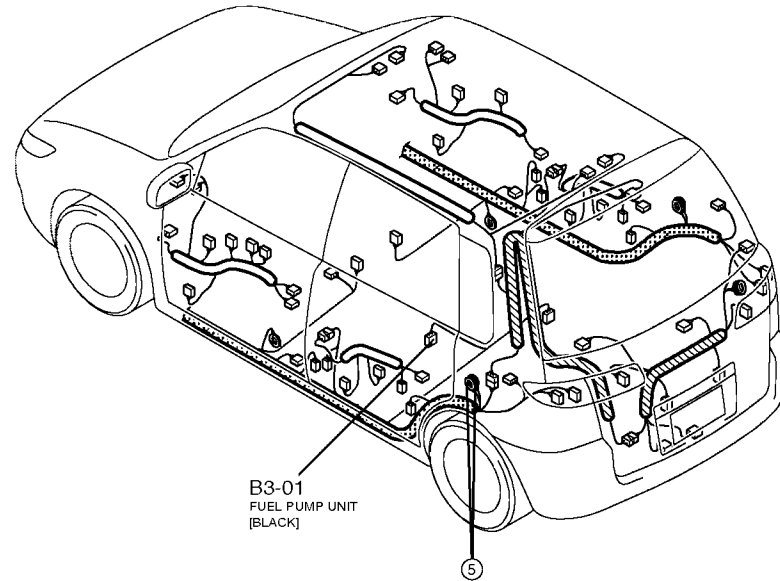
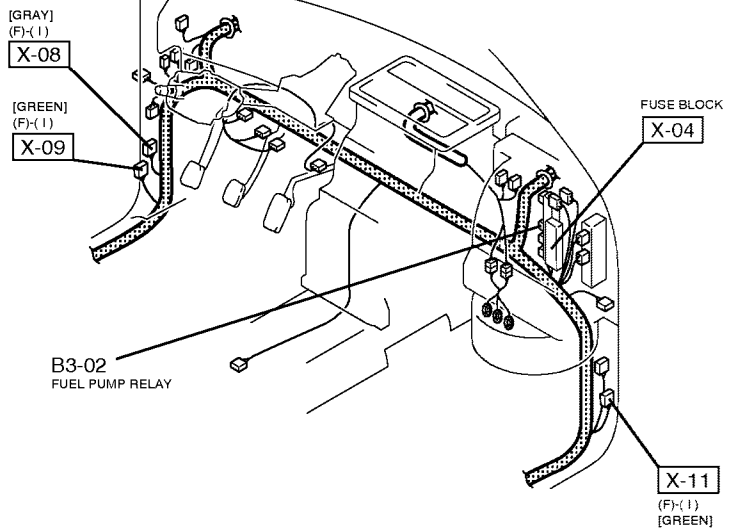
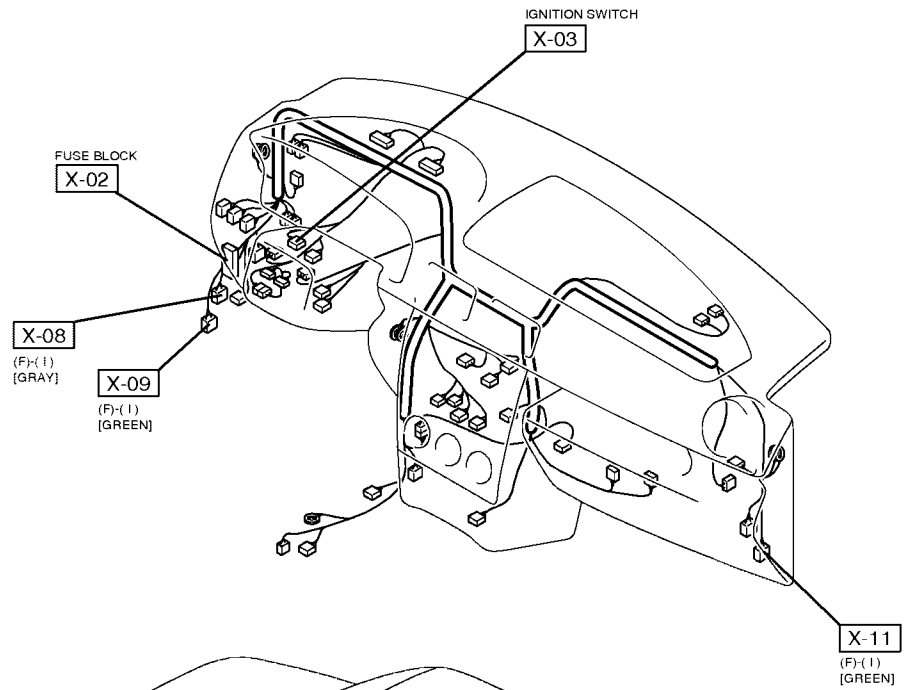
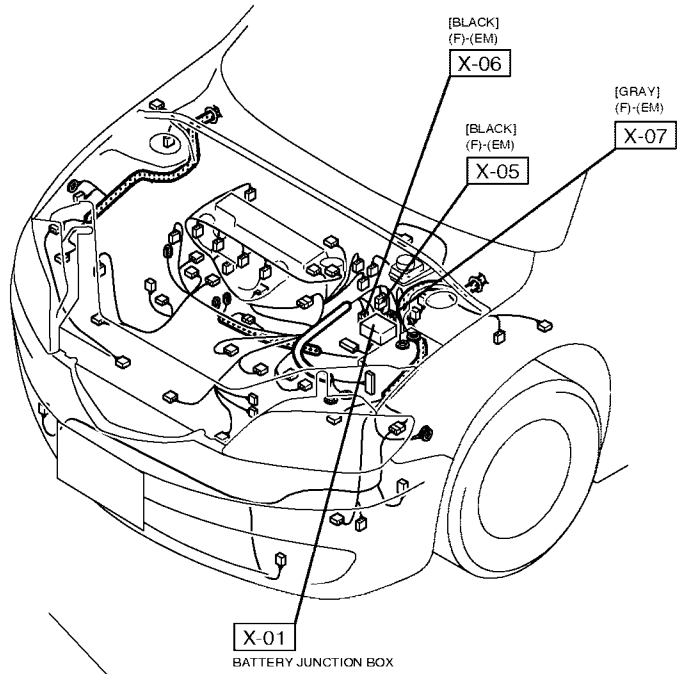
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Applied Materials:

Manual Name (Form No.)	Page (Non-Revised Page is shown in italics.)	Remarks
Mazda2 Wiring Diagram (5571-1E-02L)	<i>52-1, 52-2, 53, 54</i> 136-1, <i>BLANK PAGE</i>	FUEL SYSTEM COMMON CONNECTOR LIST

Service Material Planning Group
Vehicle Service & Program Department

HARNESS SYMBOL:  (F)  (E)  (R)



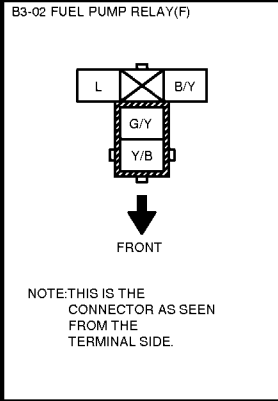
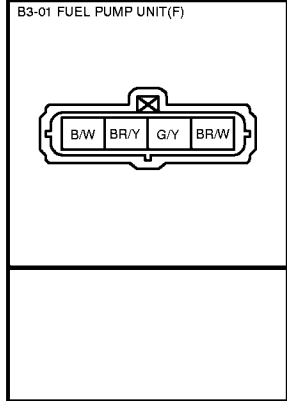
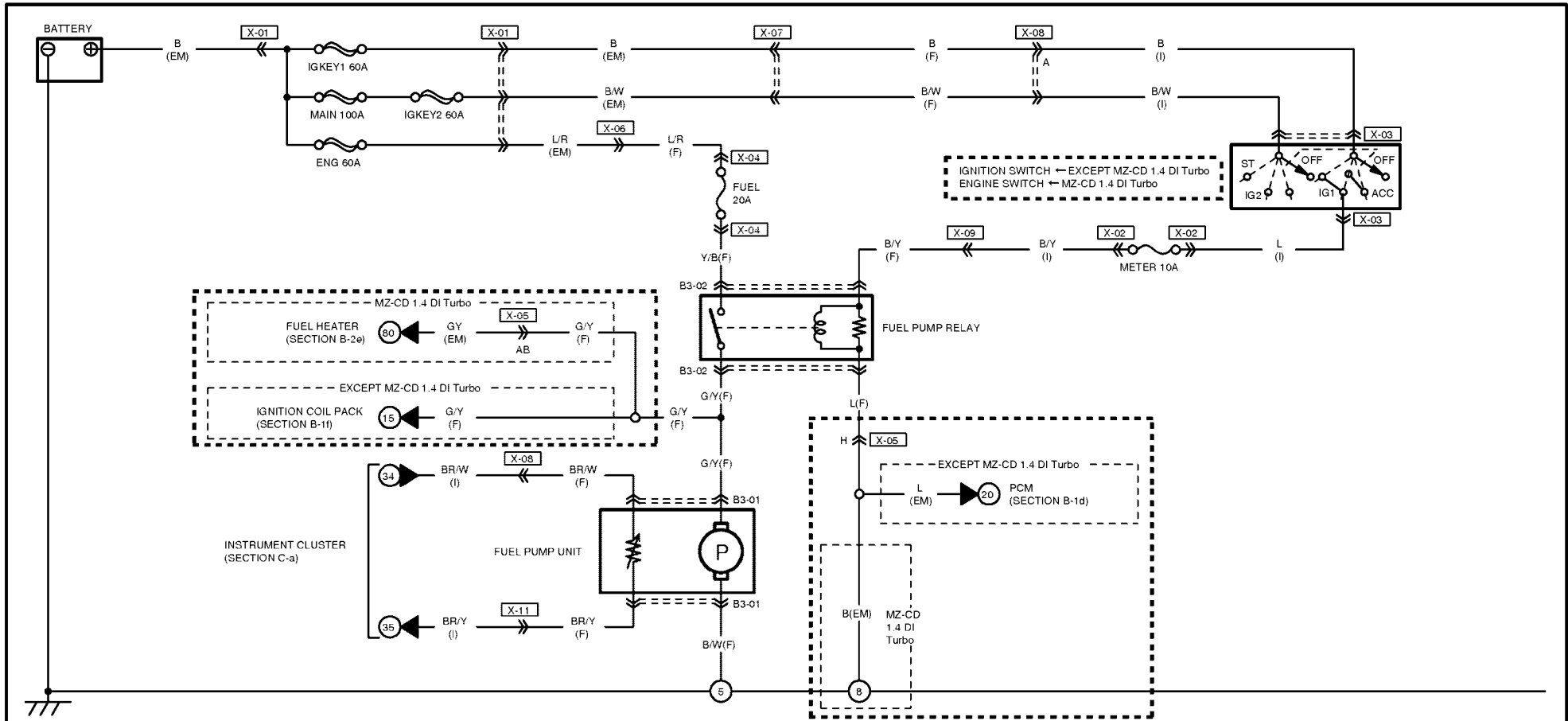
52-1

FUEL SYSTEM

B-3

Applied VIN (assumed) : JMZ XXXXXX3PXXXXX

Mazda2 Wiring Diagram (5571-1E-02L)



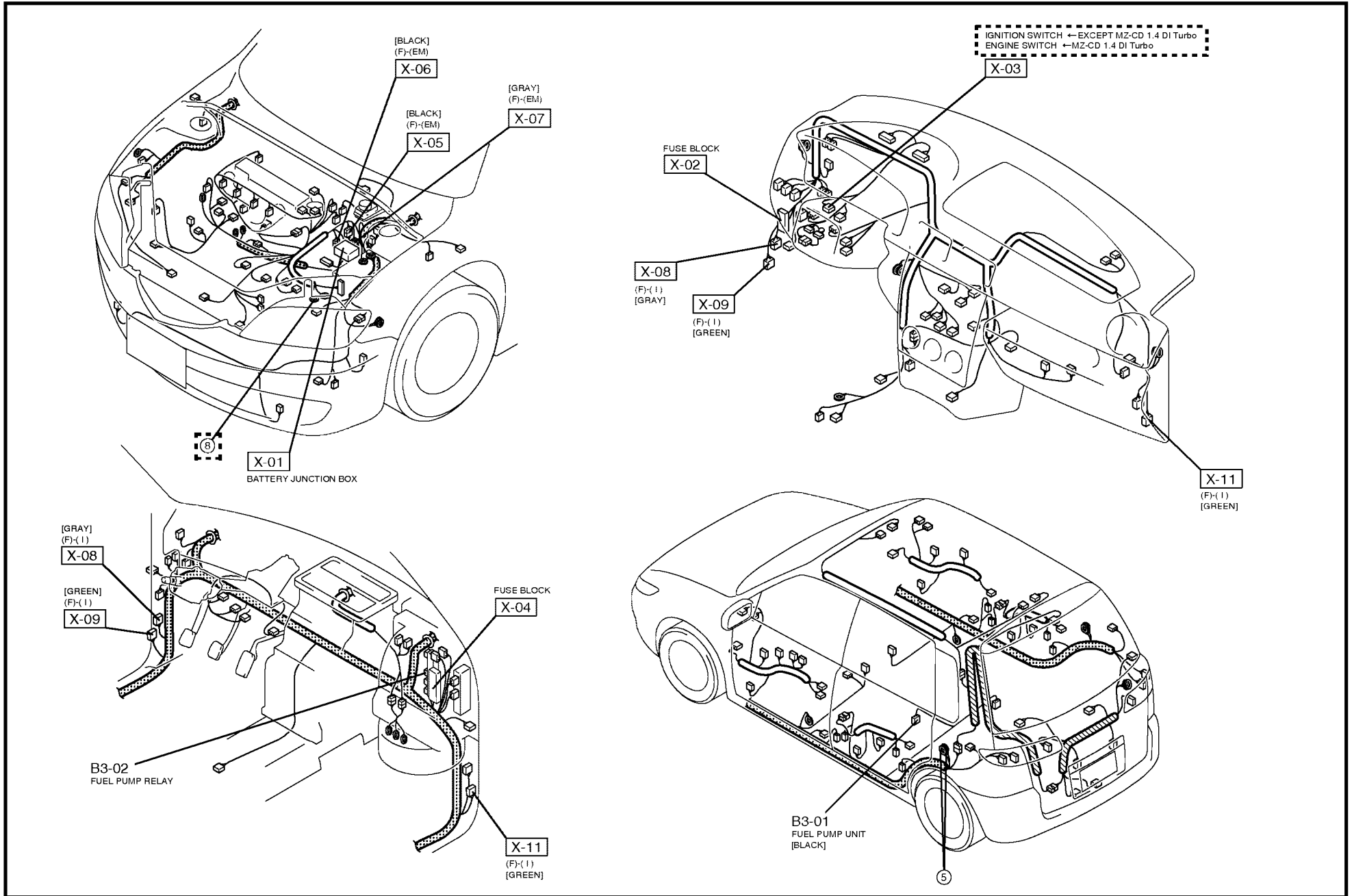
52-2

Added 11/2004 (Ref. No. L182/04)

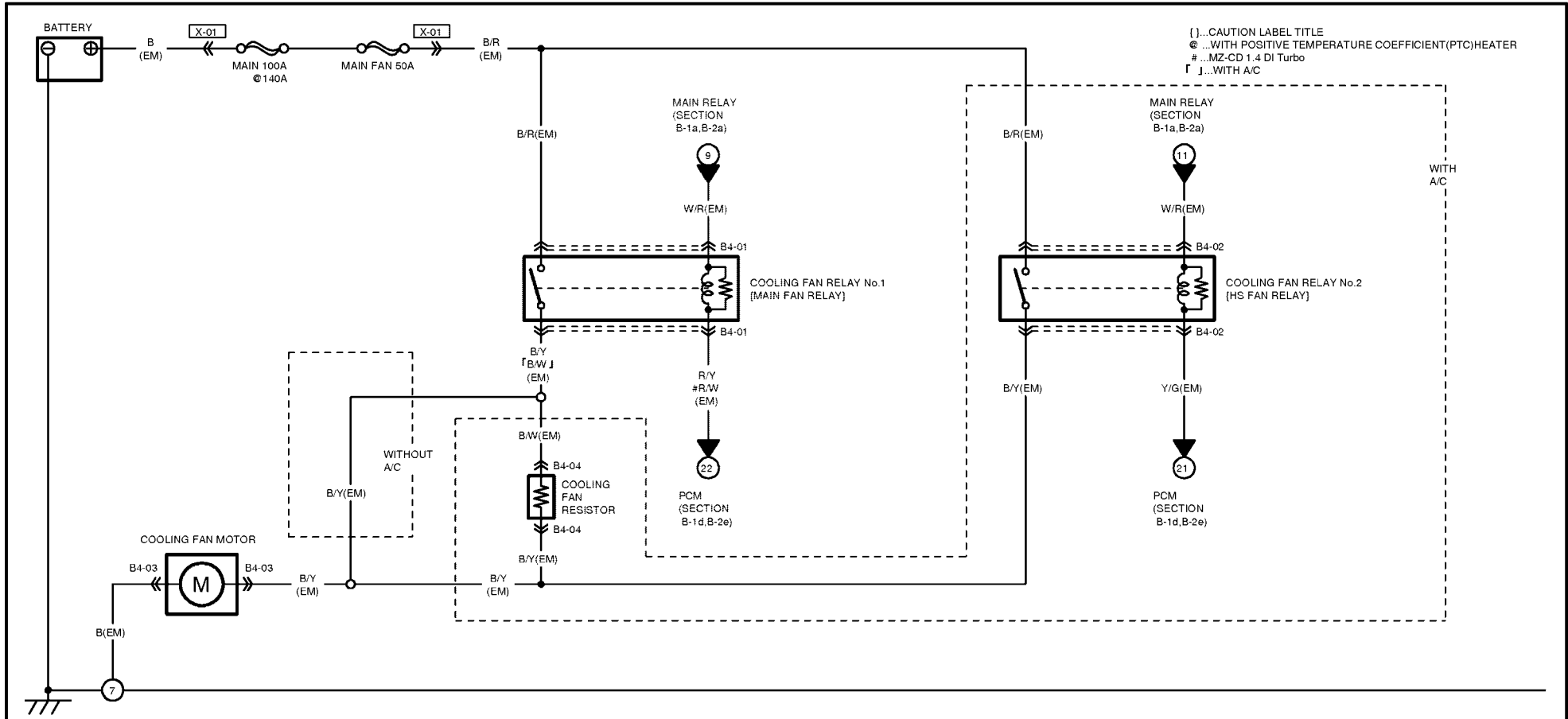
HARNESS SYMBOL:  (F)  (E)  (R)

Applied VIN (assumed) :
JMZ XXXXXX3PXXXXXX

Mazda2 Wiring Diagram (5571-1E-02L)



COOLING FAN SYSTEM

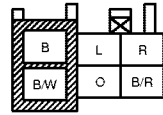


54

<p>B4-01 COOLING FAN RELAY No.1 (MAIN FAN RELAY)(EM)</p> <p>NOTE: THIS IS THE CONNECTOR AS SEEN FROM THE TERMINAL SIDE.</p>	<p>B4-02 COOLING FAN RELAY No.2 (HS FAN RELAY)(EM)</p> <p>NOTE: THIS IS THE CONNECTOR AS SEEN FROM THE TERMINAL SIDE.</p>	<p>B4-03 COOLING FAN MOTOR(EM)</p>	<p>B4-04 COOLING FAN RESISTOR(EM)</p>

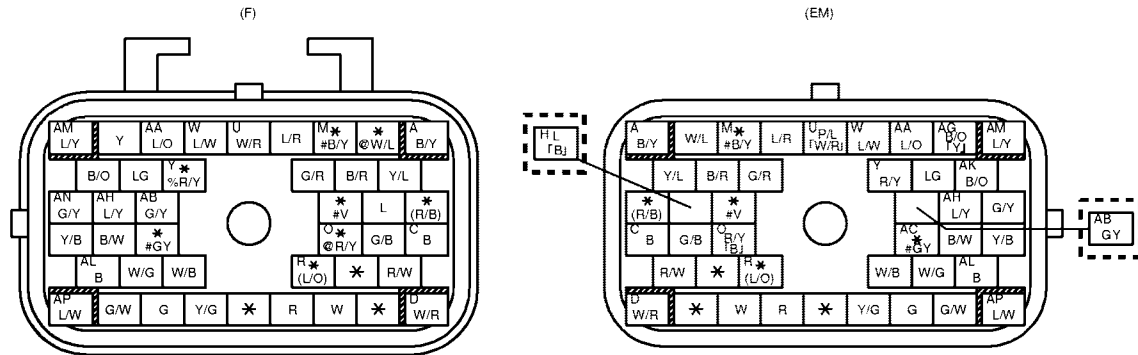
COMMON CONNECTOR LIST

X-03 IGNITION SWITCH(I) ← EXCEPT MZ-CD 1.4 Di Turbo
ENGINE SWITCH(I) ← MZ-CD 1.4 Di Turbo



X-05 FRONT(F)-EMISSION(EM)

...AUTOMATED GEARSHIFT SYSTEM
⊙ ...WITHOUT ABS/ESP
% ...WITH POWER WINDOWS
{ } ...WITH A/C
f j ...MZ-CD 1.4 Di Turbo

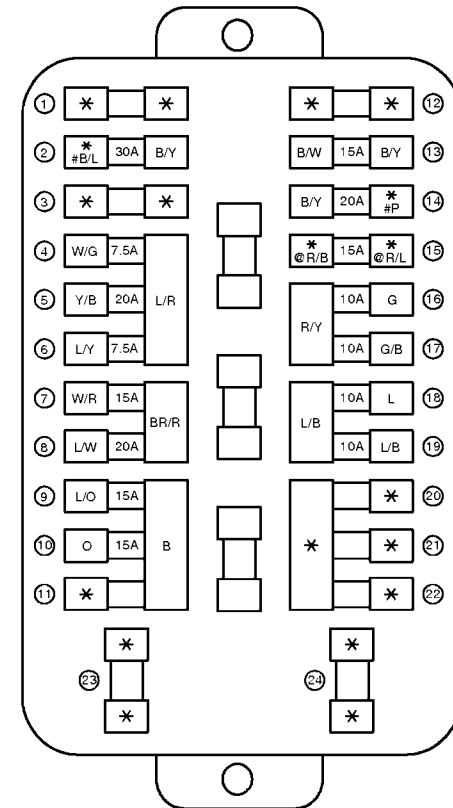


X-06 FRONT(F)-EMISSION(EM)



X-04 FUSE BLOCK(F)

...WITH ABS/ESP
⊙ ...WITH EXTERIOR MIRROR



NOTE: THIS IS THE CONNECTOR AS SEEN FROM THE TERMINAL SIDE.

- | | | |
|-----------|-------------|-------------|
| ① — | ⑨ STOP | ⑰ H/L LH HI |
| ② ABS-P | ⑩ HAZARD | ⑱ H/L RH LO |
| ③ — | ⑪ — | ⑲ H/L LH LO |
| ④ ALT SIG | ⑫ — | ⑳ — |
| ⑤ FUEL | ⑬ TNS | ㉑ — |
| ⑥ ENG.+B | ⑭ ABS-V | ㉒ — |
| ⑦ ENG.BA | ⑮ M.DEF | ㉓ — |
| ⑧ ENG.BAR | ⑯ H/L RH HI | ㉔ — |

Applied VIN (assumed) :
JMZ XXXXXX3PXXXXX

Mazda2 Wiring Diagram (5571-1E-02L)

136-1

Added 11/2004 (Ref. No. L182/04)

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Category No. T (501-20B)	Literature	Ref No. MME/L004/03	Page 1 of 1
Coverage <input type="checkbox"/> Distributor only <input type="checkbox"/> Please inform to your dealers		Date issued February 18, 2003	
Please convey this information to your <input type="checkbox"/> Warranty Dept. <input type="checkbox"/> Parts Dept. <input type="checkbox"/> Training Dept. <input type="checkbox"/> Field Rep		Date revised May 27, 2003	
Applied Model Mazda2	Applied Country or Specification European (L.H.D. U.K.) specs.		

**Subject: Passenger Air Bag Deactivation (PAD) System
Installation and Diagnostic procedures**

Pages 12 & 13 have been revised on 27th May 2003.

Thank you for your cooperation on after-sales service.

This Service Information provides installation and diagnostic procedures for the passenger air bag deactivation (PAD) system, which is supplied as accessory item.

Always read this information before servicing the switch. Consult the following related materials when performing this procedure. Please make copies as necessary.

RELATED MATERIAL

- Mazda2 Service Manual CD (CD04-XX-03AE)
- Wiring Diagram UK (5570-1E-02L)
- Wiring Diagram L.H.D. (5571-1E-02L)

The following language versions will be issued shortly.
[German, French, Dutch, Spanish, Italian, and Swedish]

Dealerships: The above-mentioned European language versions will be delivered to your distributors. Please contact your distributors if necessary.

Customer Service Division
Mazda Motor Europe GmbH

PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

PASSENGER AIR BAG DEACTIVATION SWITCH KIT		
MODEL NAME	CAR LINE	SHEET NUMBER
Mazda2	DY	1 through 19

WARNING: YOU COULD BE SERIOUSLY INJURED AND THE CUSTOMER CAN BE SERIOUSLY INJURED IF YOU DON'T FOLLOW THESE STEPS VERY CAREFULLY REFRESH YOURSELF ON THE SPECIFIC WARNINGS. PLEASE THINK ABOUT STAYING OUT OF THE WAY OF THE AIR BAGS AS YOU DISCONNECT AND ACTIVATE SYSTEMS. IT IS ALSO BEST FOR YOU TO DO THE WHOLE OPERATION AT ONE TIME SO YOU DON'T GET DISTRACTED. TAKE SPECIAL STEPS TO MAKE SURE YOU OR A KNOWLEDGEABLE PERSON EXPLAIN THE SWITCH TO THE CUSTOMER.

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• TEMPLATE	7
• REWORK PROCEDURE	8
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• RESTRAINT CONTROL MODULE CONFIGURATION	12
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PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

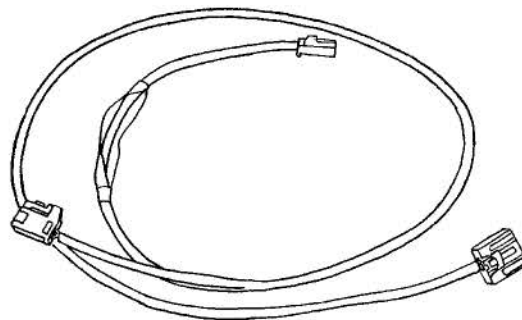
KIT CONTENTS



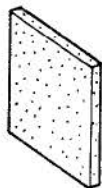
PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH



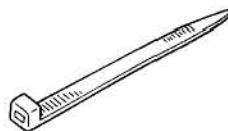
PASSENGER AIR BAG DEACTIVATION (PAD) INDICATOR



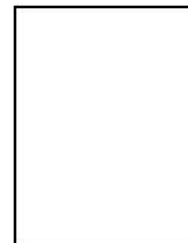
OVERLAY WIRING HARNESS



1 PAD PROTECTOR



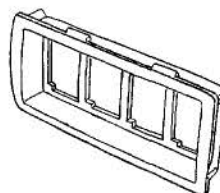
2 BUNDLING STRAPS



INSTRUCTION SHEET

Note:

The switch bezel is not included in the kit and must be purchased separately. Select a switch bezel accessory that matches the color of the vehicle interior.



1 SWITCH BEZEL

PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

SERVICE PROCEDURE:

1. Verify the contents of the kit. The kit must contain the following (refer to Kit Contents box on Sheet 2):
 - 1 Overlay Wiring Harness
 - 1 Passenger Air Bag Deactivation (PAD) Switch
 - 1 Passenger Air Bag Deactivation (PAD) Indicator
 - 2 Bundling Straps (99709-3250)
 - 1 Pad Protector (S41B-67PP1)
 - 1 Instruction Sheet

NOTE: The switch bezel is required additionally.
The switch bezel is to be purchased separately.
Select a switch bezel accessory that matches the color of the vehicle interior.

If the kit **DOES NOT** contain the parts listed above, **DO NOT** proceed. Verify the application and model year, and then obtain the correct kit.

BE SURE TO FOLLOW THESE INSTRUCTIONS WHEN INSTALLING THE PASSENGER AIR BAG DEACTIVATION SWITCH KIT.

READ THE INSTRUCTIONS CAREFULLY AND COMPLETELY BEFORE PROCEEDING WITH THE INSTALLATION OF THE AIR BAG DEACTIVATION SWITCH KIT.

WARNING: ALWAYS WEAR SAFETY GLASSES WHEN REPAIRING AN AIR BAG SUPPLEMENTAL RESTRAINT SYSTEM (SRS) VEHICLE AND WHEN HANDLING AN AIR BAG MODULE.

WARNING: CARRY A LIVE AIR BAG MODULE WITH THE AIR BAG AND DEPLOYMENT DOOR POINTED AWAY FROM YOUR BODY. THIS WILL REDUCE THE RISK OF INJURY IN THE EVENT OF AN ACCIDENTAL DEPLOYMENT.

WARNING: DO NOT SET A LIVE AIR BAG MODULE DOWN WITH THE DEPLOYMENT DOOR FACE DOWN.

WARNING: NEVER PROBE THE CONNECTORS ON THE AIR BAG MODULE. DOING SO MAY RESULT IN AIR BAG DEPLOYMENT, WHICH COULD RESULT IN PERSONAL INJURY.

WARNING: THE ELECTRICAL CIRCUIT NECESSARY FOR SYSTEM DEPLOYMENT IS POWERED DIRECTLY FROM THE BATTERY AND BACKUP POWER SUPPLY. TO AVOID ACCIDENTAL DEPLOYMENT AND POSSIBLE PERSONAL INJURY, THE BATTERY GROUND (-) CABLE (S) MUST BE DISCONNECTED FOR AT LEAST ONE (1) MINUTE.

2. Adjust the driver and passenger seat full rearward.
3. Make sure the vehicle will not move or roll. Put the gearshift lever in "P" (PARK) (ATX), or Neutral (MTX). Set the parking brake and block the wheels in both directions.

WARNING: WHEN PERFORMING THIS PROCEDURE, YOU WILL NEED TO SHIFT BETWEEN "P" (PARK) AND "1" (FIRST) (ATX), OR NEUTRAL (MTX). TO PREVENT THE VEHICLE FROM MOVING AND POTENTIALLY CAUSING INJURY, BE SURE THE PARKING BRAKE IS SET, THEN BLOCK THE WHEELS IN THE BOTH DIRECTIONS.

4. Prove out the system. Prove out the system means to turn the ignition switch from the "LOCK" to "ON" position and visually monitor the air bag readiness light in the cluster with the air bag module installed. The air bag readiness light will illuminate continuously for approximately three (3) seconds and then turn off. If an air bag Supplemental Restraint System (SRS) fault is present, the air bag readiness light will either:

- Not turn off after approximately 30 seconds.
- Not come on at all when the ignition is turned on.

PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

The flashing may occur until approximately thirty (30) seconds after the ignition switch has been turned from "LOCK" to "ON" position. This is the time required for the air bag diagnostic monitor to complete the testing of the SRS. The air bag readiness light may signal various trouble codes if there are problems in the air bag system – those codes must be resolved before proceeding.

NOTE: If the air bag system requires repair, the repair must be made by a qualified technician. Refer to the appropriate Workshop Manual for diagnostic procedures.

If the air bag readiness light goes off at 30 seconds there will be no audible tones (beeps) after self test, the air bag system is operational. Proceed to Step 5.

5. Record the preset radio frequencies.

WARNING: TO AVOID ACCIDENTAL DEPLOYMENT AND POSSIBLE PERSONAL INJURY, THE BACKUP POWER SUPPLY MUST BE DEPLETED BEFORE REPAIRING OR REPLACING ANY AIR BAG SUPPLEMENTAL RESTRAINT SYSTEM (SRS) COMPONENTS. TO DEplete THE BACKUP POWER SUPPLY ENERGY, DISCONNECT THE BATTERY GROUND CABLE AND WAIT AT LEAST ONE (1) MINUTE. BE SURE TO DISCONNECT AUXILIARY BATTERIES AND POWER SUPPLIES (IF EQUIPPED).

6. Deactivate the air bag system.

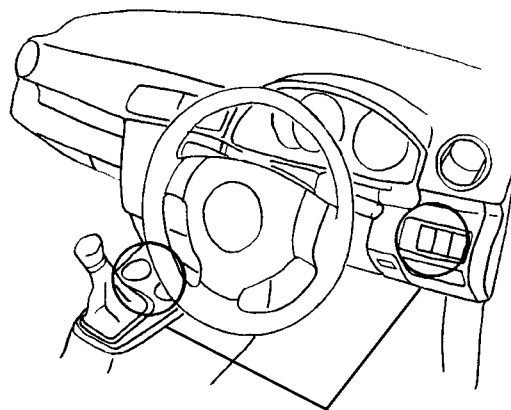
- A. Disconnect the battery ground (-) cable. Be sure to disconnect auxiliary batteries and power supplies (if equipped).
- B. Wait at least one (1) minute for the backup power supply in the restraint control module to deplete its stored energy.

PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

DISASSEMBLY PROCEDURE:

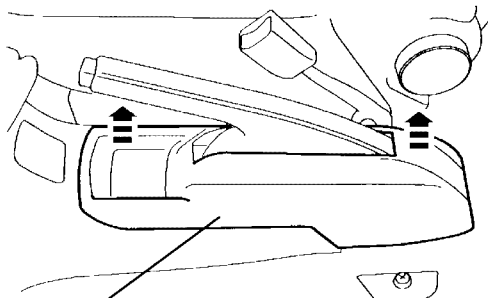
The directions are given for right-hand drive vehicles, however, the directions for left-hand drive vehicles are the same.

1. Refer to Figure 1 for area of rework.
2. Remove the floor console (refer to Figure 2 to 7).
 - A. Remove the parking brake trim panel (refer to Figure 2).
 - B. Detach the gearshift trim panel from the floor console (refer to Figure 3).
 - C. Remove the gearshift trim panel (refer to Figure 4).
 - D. Remove the floor console front retaining clips (refer to Figure 5) (right-hand side shown).



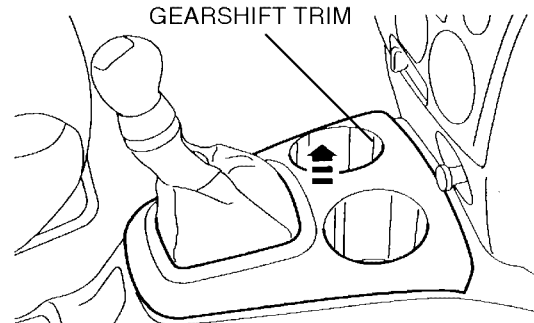
AREA OF REWORK

FIGURE 1



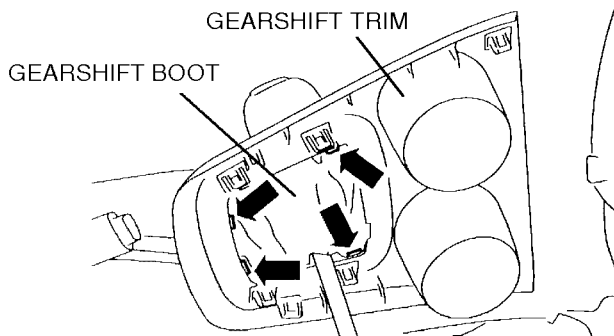
PARKING BRAKE TRIM

FIGURE 2



GEARSHIFT TRIM

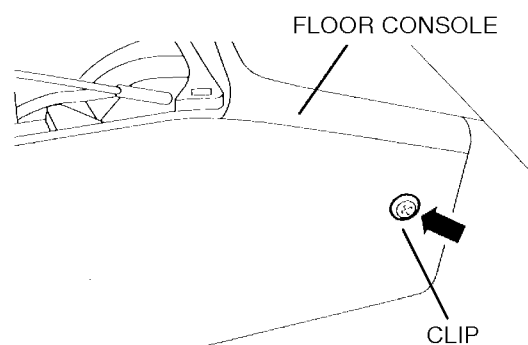
FIGURE 3



GEARSHIFT TRIM

GEARSHIFT BOOT

FIGURE 4



FLOOR CONSOLE

CLIP

FIGURE 5

PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

- E. Remove the floor console center retaining screws (refer to Figure 6).
 - F. Remove the rear retaining screw (refer to Figure 7).
3. Remove the rear heat duct (refer to Figure 8).
 4. Remove the switch bezel (refer to Figure 9)
 - A. Disconnect the connector, and remove the switch bezel.

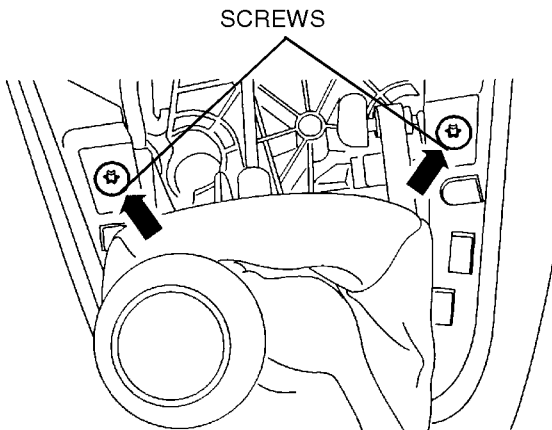


FIGURE 6

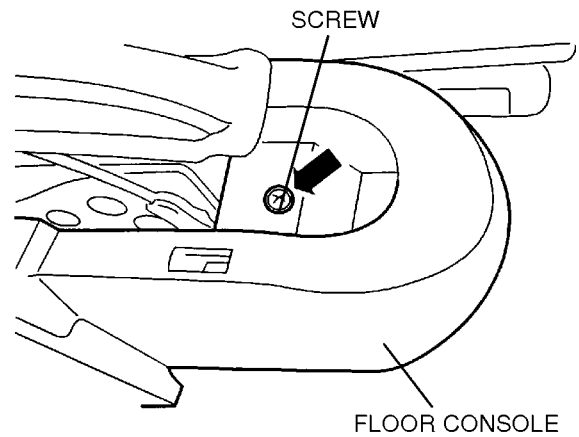


FIGURE 7

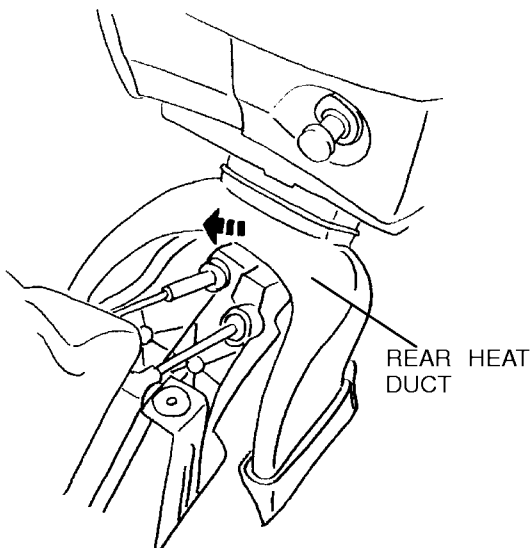


FIGURE 8

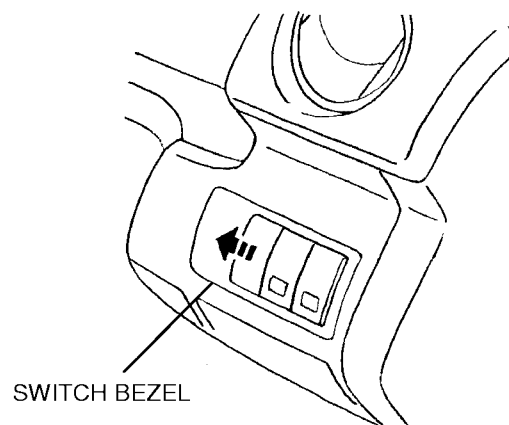


FIGURE 9

PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

**FULL SIZE TEMPLATE -
DO NOT REDUCE OR ENLARGE**

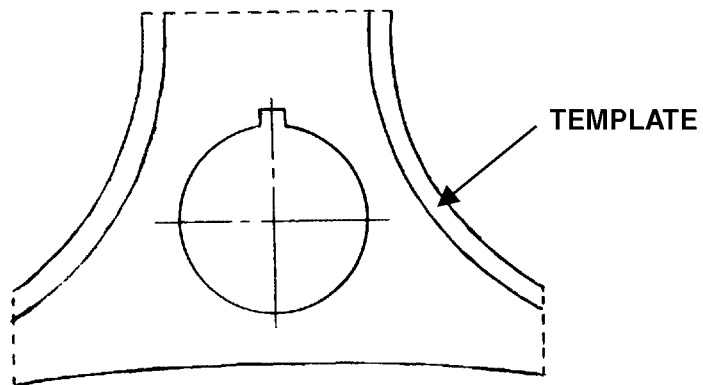


FIGURE 10

PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

REWORK PROCEDURE:

1. Carefully cut out the template on Sheet 7 (refer to Figure 10).
2. Remove the cut-out piece from the template (refer to Figure 11).
3. Carefully position the template on the gearshift trim, tape it in place, and then mark around the area to be drilled with a marker (refer to Figures 12 and 13).
4. Drill a hole in the marked area and expand the hole with a round file or similar tool to match the marked size (refer to Figure 14).

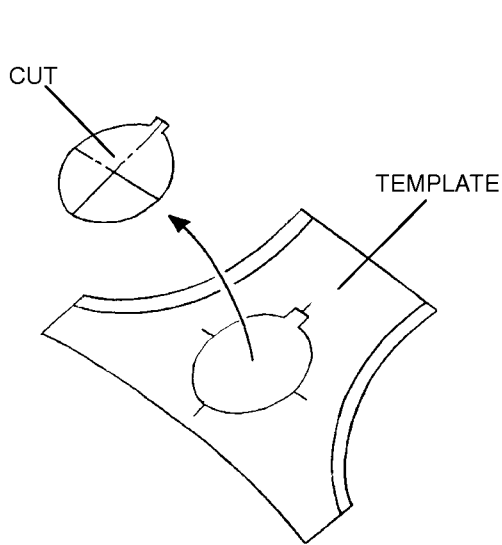


FIGURE 11

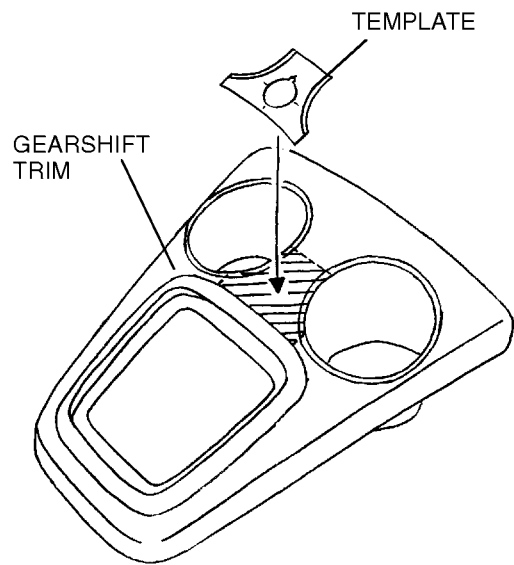


FIGURE 12

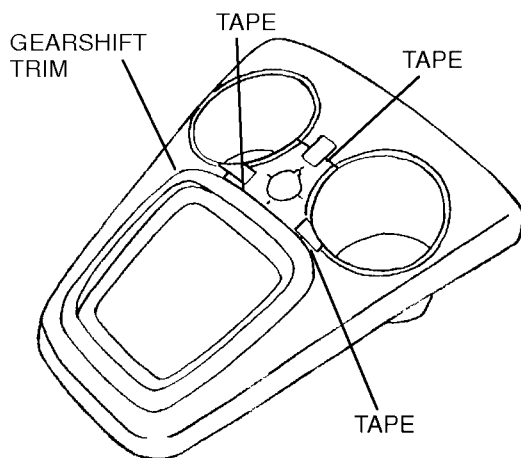


FIGURE 13

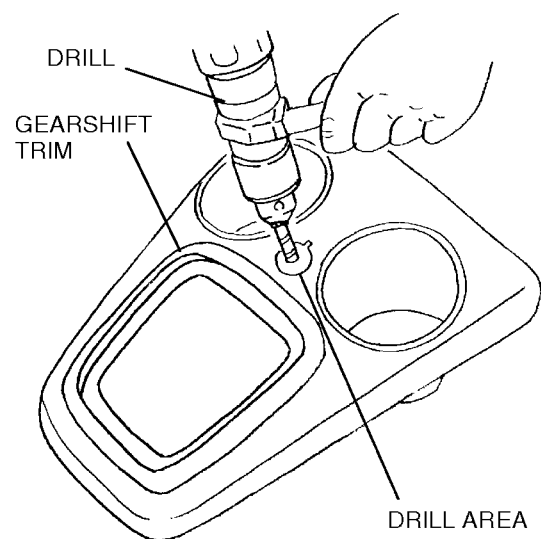


FIGURE 14

PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

5. Cut the pad protectors and attach them to the underside of the gearshift trim (refer to Figure 15).
6. Install the passenger air bag deactivation (PAD) indicator to the gearshift trim in the order of (1), (2) (refer to Figure 16).
7. Affix the passenger air bag deactivation (PAD) indicator wiring harness to the pad protector (refer to Figure 17).
8. Remove the switches from the existing switch bezel and install them to the switch bezel (purchased separately) (refer to Figure 18).
9. Install the passenger air bag deactivation (PAD) switch to the switch bezel.
(The figures show installation for right-hand drive vehicles. The passenger air bag deactivation (PAD) switch is installed in the position closest to the steering wheel in both left and right-hand drive vehicles.)
(Refer to Figure 18.)

NOTE: Select a switch bezel accessory that matches the color of the vehicle interior.

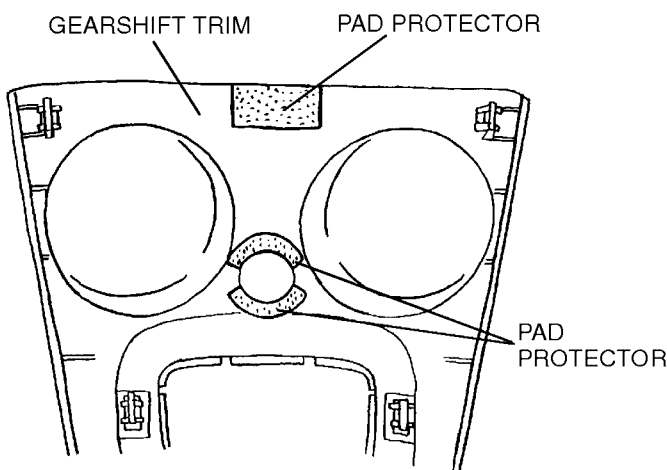


FIGURE 15

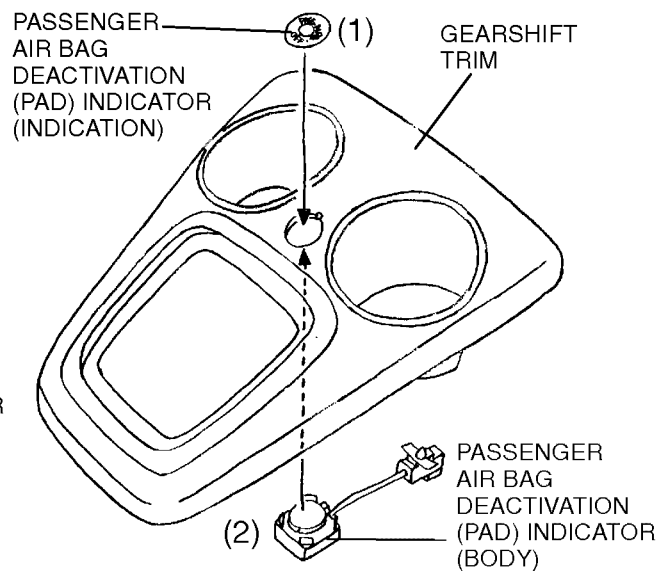


FIGURE 16

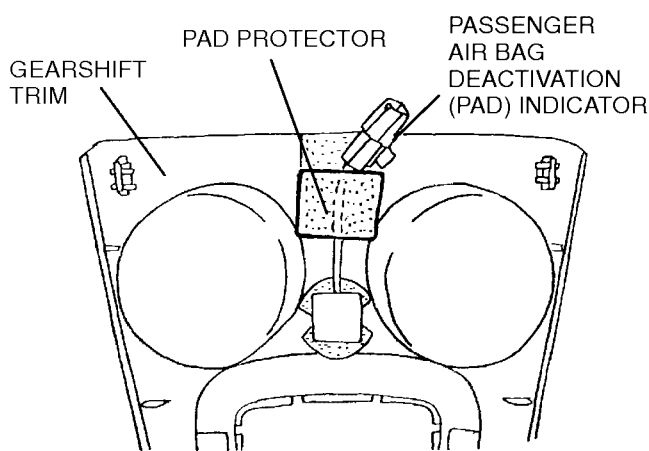


FIGURE 17

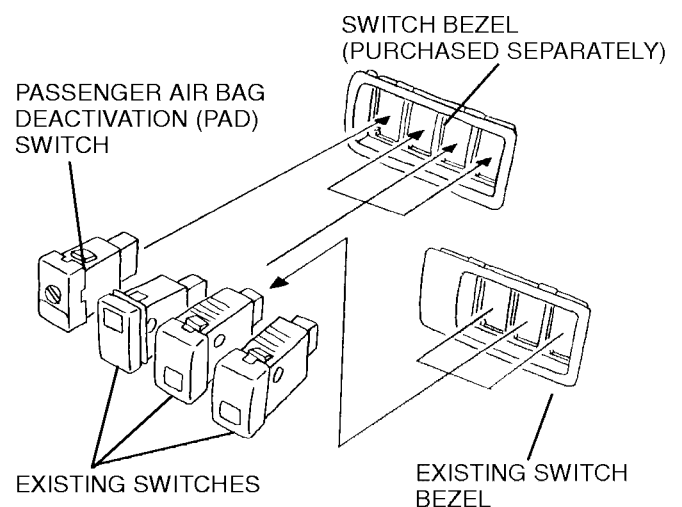
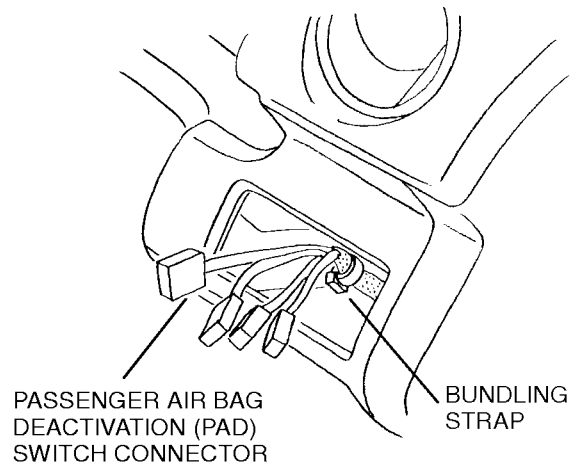
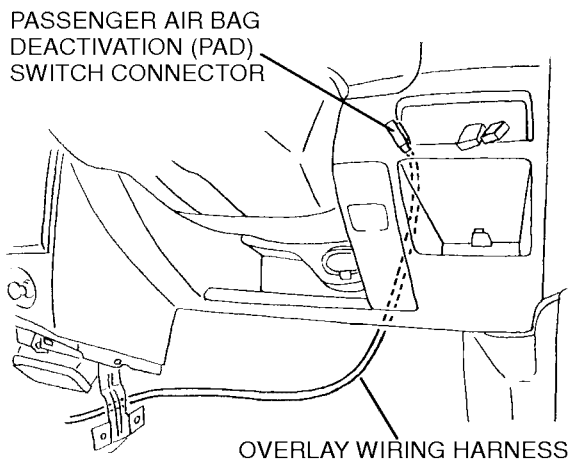
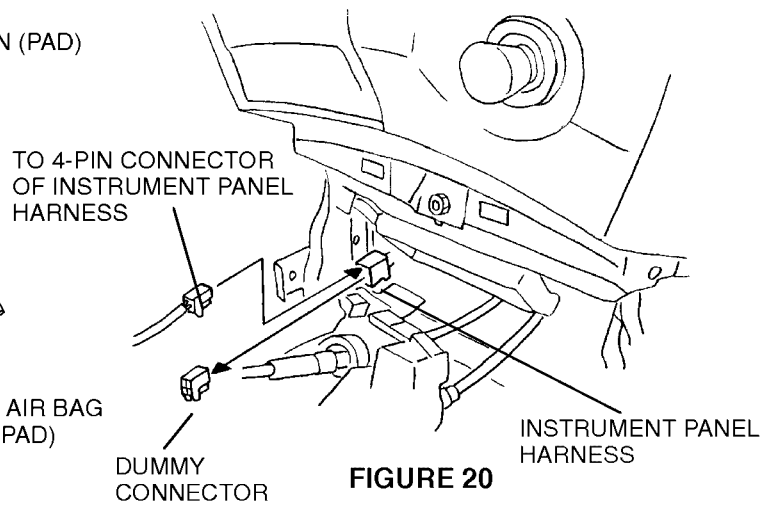
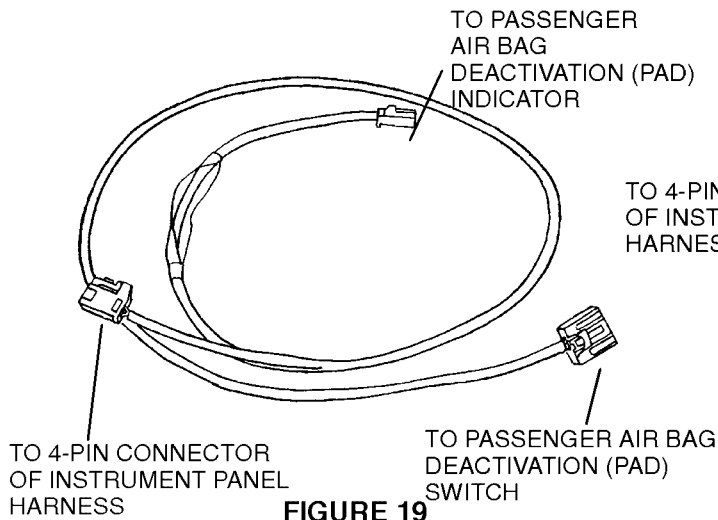


FIGURE 18

PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

INSTALLATION OF OVERLAY WIRING HARNESS: (refer to Figure 19)

1. Disconnect the dummy connector from the 4-pin connector of the instrument panel harness and connect the 4-pin connector of the overlay wiring harness (refer to Figure 20).
2. Pull the passenger air bag deactivation switch connector up to the switch bezel installation hole (refer to Figure 21).
3. Secure the overlay wiring harness with the vehicle wiring harness using the bundling strap (refer to Figure 22).



PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

4. Secure the overlay wiring harness with the DLC-2 connector harness using the bundling strap and affix it to the dashboard using the pad protectors (refer to Figure 23).
5. Connect each connector to each switch of the switch bezel and install the switch bezel (refer to Figure 24).
6. Install the floor console in the reverse order of removal.
7. Connect the passenger air bag deactivation (PAD) indicator connector to the passenger air bag deactivation (PAD) indicator and install the gearshift trim in the reverse order of removal (refer to Figure 25).
8. Go to "RESTRAINT CONTROL MODULE CONFIGURATION" on sheet 12.

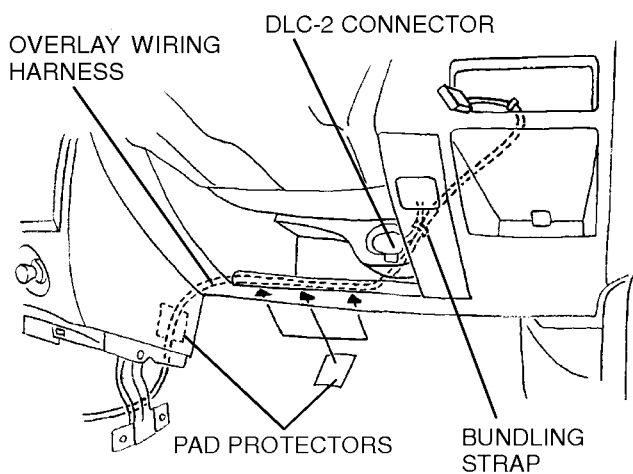


FIGURE 23

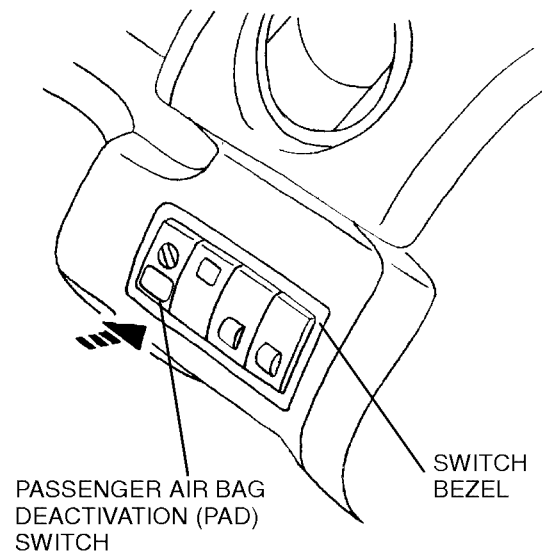


FIGURE 24

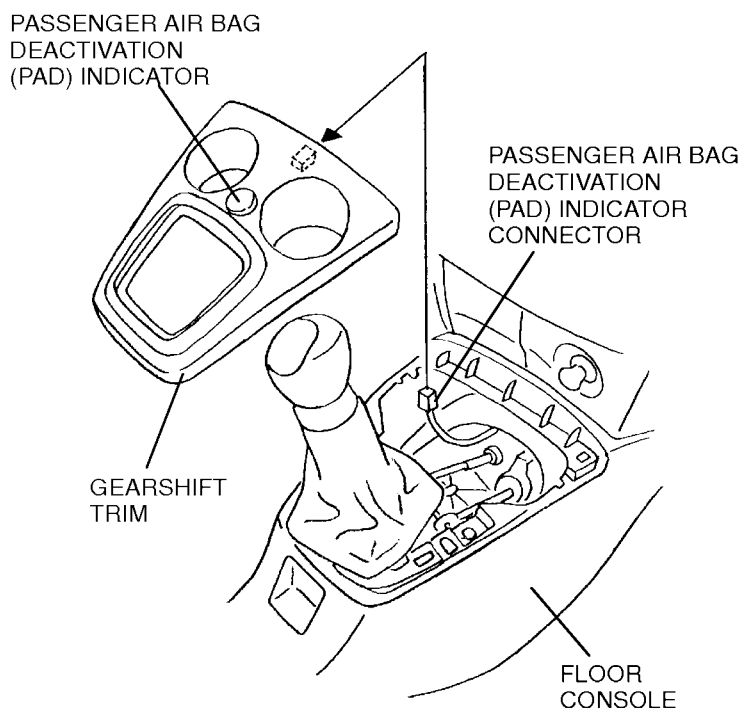
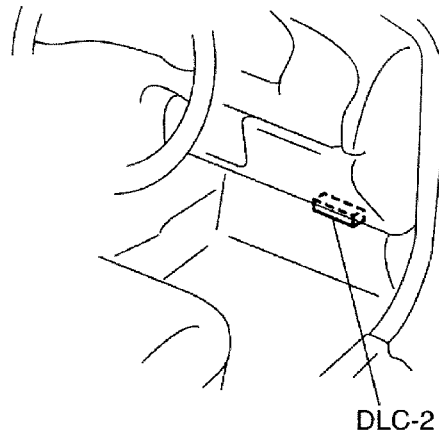


FIGURE 25

PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

RESTRAINT CONTROL MODULE CONFIGURATION

NOTE: Configuration cannot be performed if the passenger air bag deactivation switch and indicator connectors are not properly connected. If configuration cannot be performed, reverify the proper connection of all the connectors.



1. Connect the battery ground (-) cable.
2. Connect the WDS or equivalent to the DLC-2.
3. Input vehicle information following the directions on the screen.
4. Select "Module Programming".
5. Select the "Programmable Module Installation".
6. Select the "RCM".
7. Turn the ignition switch to OFF position.
8. WDS indicates, "Install a new module in the vehicle.", but the restraint control module does not need to be replacement.
9. Turn the ignition switch to ON position.
10. Input the VIN.
11. Select the "YES" or "NO". (Select the "YES", if vehicle have side air bags.)
12. Select the "air bag cut off switch equipped/passenger air bag equipped" and perform procedures according to directions on the WDS or equivalent screen.
13. Retrieve DTCs using the WDS or equivalent, then verify that there is no DTC present. If any DTCs using the WDS is present, perform applicable DTC inspection.
14. Go to "FINAL CHECKS OF THE PASSENGER AIR BAG DEACTIVATION (PAD) SYSTEM FUNCTION" on sheet 13.

PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

FINAL CHECKS OF THE PASSENGER AIR BAG DEACTIVATION (PAD) SYSTEM FUNCTION:

NOTE: The ignition key cannot be fully inserted into the key slot in the passenger air bag deactivation (PAD) switch.

1. Using the ignition key turn the passenger air bag deactivation (PAD) switch to "PASS AIR BAG ON" position.
2. With the ignition ON, verify the air bag warning light disappears after lighting for three seconds.
3. Verify that the passenger air bag deactivation (PAD) indicator disappears.
4. Turn the ignition switch to OFF position and turn the passenger air bag deactivation (PAD) switch to "PASS AIR BAG OFF" position.
5. With the ignition ON, verify the air bag warning light disappears after lighting for three seconds
6. Verify that the passenger air bag deactivation (PAD) indicator "PASS AIR BAG OFF" lights from the passenger side also.
7. Reset the radio frequencies and set the clock.
8. Check for proper operation of lights, radio, cassette and compact disc player (if equipped).
9. Turn the ignition switch to OFF position and turn the passenger air bag deactivation (PAD) switch to "PASS AIR BAG ON" position.

MAKE SURE THE PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH IS IN THE "PASS AIR BAG ON" POSITION WHEN THE VEHICLE IS RETURNED TO THE CUSTOMER.

CUSTOMER HANDOVER PROCESS

1. Explain the use of the passenger air bag deactivation (PAD) switch to the customer making reference to the relevant section in the Owner's Manual.

WARNING: NEVER PLACE A CHILD RESTRAINT IN THE FRONT UNLESS THE PASSENGER AIR BAG IS OFF.

2. Enter the relevant information into the Service History Log.
3. Complete the Declaration form with the customer, photocopy it and give the original to the customer. The photocopy must be retained by the dealership for 10 years under the EU consumer protection legislation (Go to "Dealer and Customer Details" on sheet 19).

PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

ON-BOARD DIAGNOSTIC [AIR BAG SYSTEM]

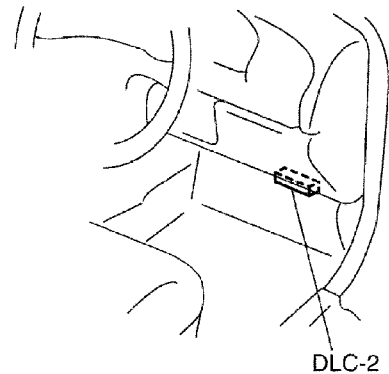
FOREWORD

-Diagnostic DTC can be read/cleared, using the **SST** (WDS or equivalent).

NOTE: When the air bag system is malfunctioning, turn the ignition switch to the ON position to display the current DTC using the air bag system warning light on the instrument cluster. However this light is strictly for reference. Make sure to inspect the system using the WDS or equivalent.

DTC Reading Procedure

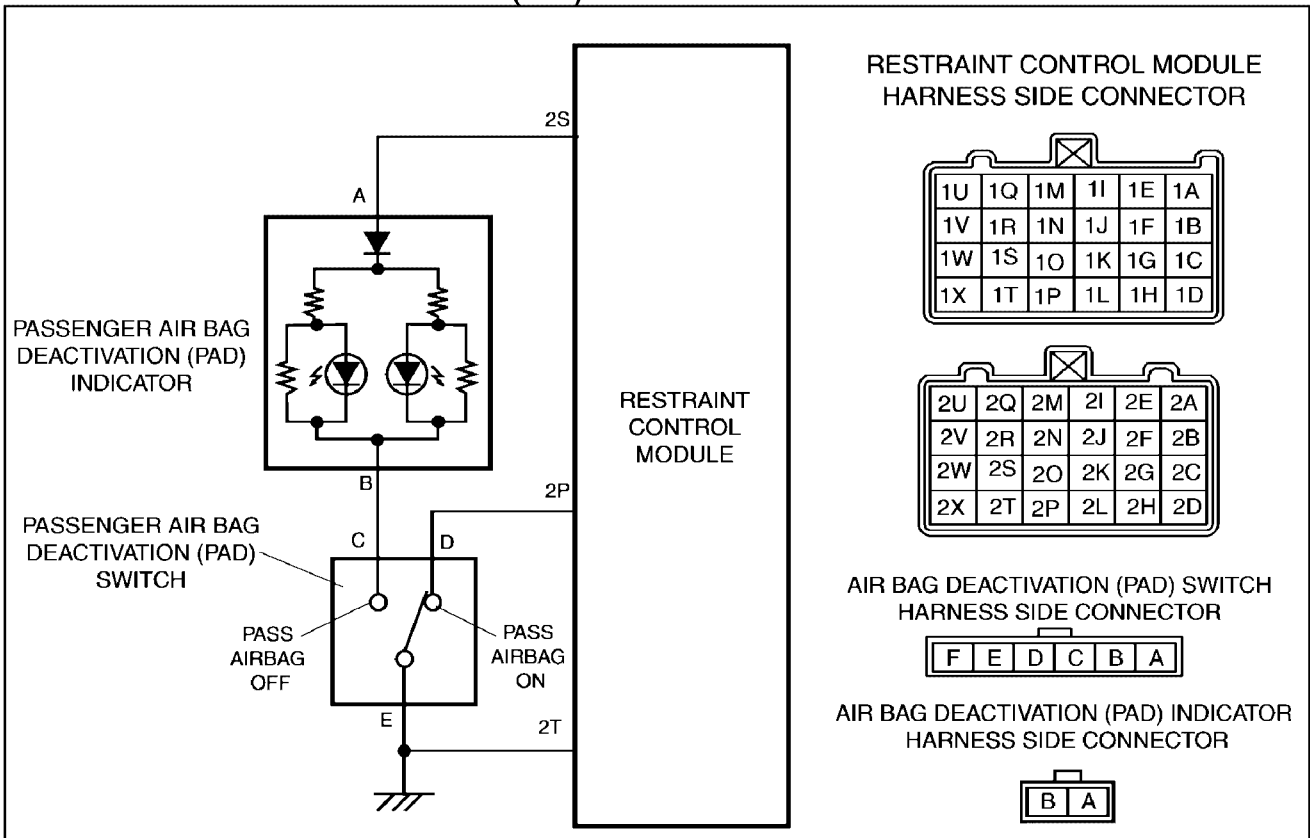
1. Connect WDS or equivalent to the vehicle DLC-2 16-pin connector.
2. Retrieve DTC using WDS or equivalent.



Clearing DTC Procedure

1. After repairs have been made, perform the DTC reading procedure.
2. Erase DTCs using WDS or equivalent.
3. Ensure that the customer's concern has been resolved.

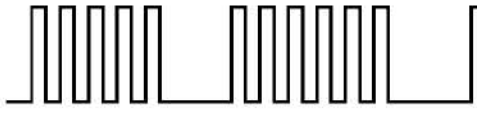
PASSENGER AIR BAG DEACTIVATION (PAD) SYSTEM WIRING DIAGRAM



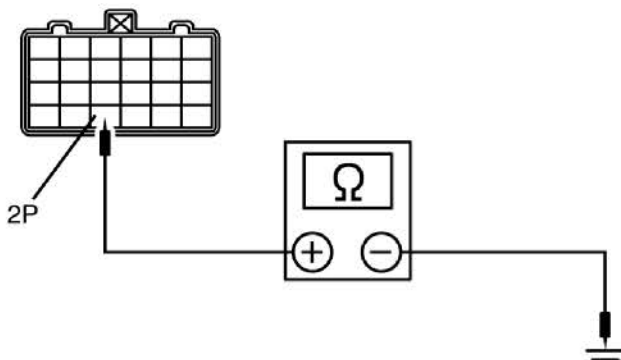
PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

DTC TABLE (PASSENGER AIR BAG DEACTIVATION (PAD) SYSTEM)

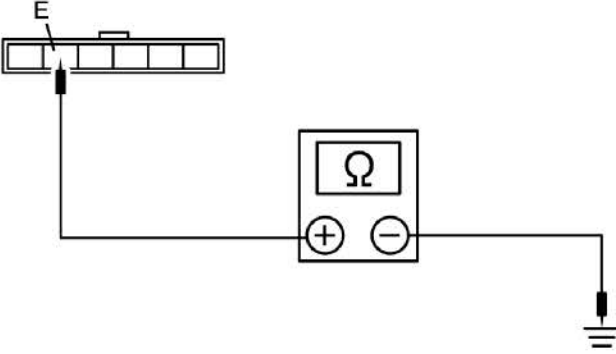
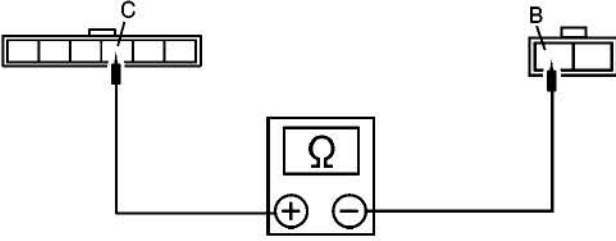
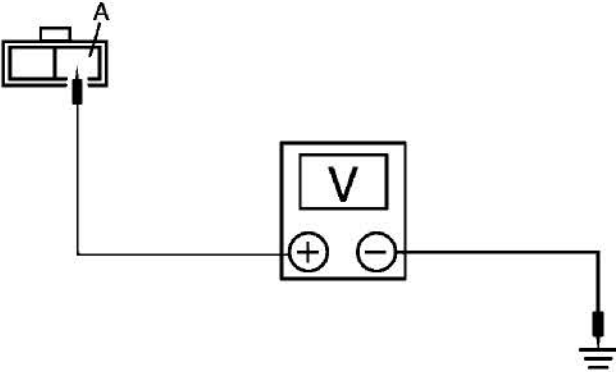
NOTE: If the air bag system warning light does not illuminate or remains illuminated when the ignition switch is turned to the ON position, inspect and repair the air bag system warning light circuit, and then confirm that the air bag system warning light is operational. The air bag system warning light flashes the DTC pattern for five cycles, and then remains illuminated until the ignition switch is turned to the LOCK position. If the restraint control module configuration is performed while the air bag system circuit has a malfunction, the air bag system warning light flashes. Verify that the warning light goes off approx. 15 s after the system circuit malfunction is solved.

WDS or equivalent	DTC		Malfunction location	Action
	Air bag system warning light			
		Flashing pattern		
B2791	56		Passenger air bag deactivation (PAD) switch out of range	GO to Pinpoint Test AT.
			Passenger air bag deactivation (PAD) switch user fault	GO to Pinpoint Test AU.

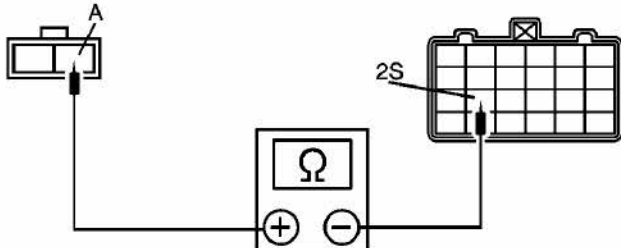
PINPOINT TEST AT: DTC B2791 PASSENGER AIR BAG DEACTIVATION SWITCH OUT OF RANGE

CONDITIONS	DETAILS/RESULTS/ACTIONS
WARNING Wait at least one minute after disconnecting the battery ground cable before disconnecting any supplemental restraint system electrical connector. Failure to follow this instruction may result in personal injury.	
AT1: CHECK THE VOLTAGE TO THE PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH	
	<ol style="list-style-type: none"> Operate the PAD switch to the OFF position. Does the PAD indicator LED illuminate? → YES GO to AT2. → NO GO to AT3.
AT2: CHECK FOR CONTINUITY BETWEEN THE AIR BAG CONTROL MODULE AND THE PAD CONTROL SWITCH	
	<ol style="list-style-type: none"> Deactivate the supplemental restraint system. REFER to Air Bag and Safety Belt Pretensioner Supplemental Restraint System (SRS) in Mazda2 Workshop Manual. Disconnect restraint control module connector. Operate the PAD switch to the ON position. Measure the resistance between the restraint control module connector terminal 2P (harness side) and ground. Is the resistance less than 5 ohms? → YES INSTALL a new restraint control module. REFER to Restraint Control Module in Mazda2 Workshop Manual. REPEAT the self-test, CLEAR the DTCs. REACTIVATE the system. REFER to Air Bag and Safety Belt Pretensioner Supplemental Restraint System (SRS) in Mazda2 Workshop Manual. → NO REPAIR related wiring harness. REPEAT the self-test, CLEAR the DTCs. REACTIVATE the system. REFER to Air Bag and Safety Belt Pretensioner Supplemental Restraint System (SRS) in Mazda2 Workshop Manual.

PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

CONDITIONS	DETAILS/RESULTS/ACTIONS
AT3: CHECK THE PAD SWITCH GROUND CIRCUIT	
	<ol style="list-style-type: none"> 1 Deactivate the supplemental restraint system. REFER to Air Bag and Safety Belt Pretensioner Supplemental Restraint System (SRS) in Mazda2 Workshop Manual. 2 Disconnect PAD switch connector. 3 Measure the resistance between the PAD switch connector terminal E (harness side) and ground. <p>Is the resistance less than 5 ohms?</p> <p>→YES GO to AT4.</p> <p>→NO REPAIR related wiring harness. REPEAT the self-test, CLEAR the DTCs. REACTIVATE the system. REFER to Air Bag and Safety Belt Pretensioner Supplemental Restraint System (SRS) in Mazda2 Workshop Manual.</p>
AT4: CHECK FOR CONTINUITY BETWEEN THE PAD INDICATOR AND THE PAD SWITCH	
	<ol style="list-style-type: none"> 1 Disconnect PAD indicator connector. 2 Measure the resistance between the PAD indicator connector terminal B (harness side) and PAD switch connector terminal C (harness side). <p>Is the resistance less than 5 ohms?</p> <p>→YES GO to AT5.</p> <p>→NO REPAIR related wiring harness. REPEAT the self-test, CLEAR the DTCs. REACTIVATE the system. REFER to Air Bag and Safety Belt Pretensioner Supplemental Restraint System (SRS) in Mazda2 Workshop Manual.</p>
AT5: CHECK THE PAD INDICATOR SUPPLY CIRCUIT	
	<ol style="list-style-type: none"> 1 Key in ON position. 2 Measure the voltage between the PAD indicator connector terminal A (harness side) and ground. <p>Is the voltage greater than 9 volts?</p> <p>→YES INSTALL a new PAD indicator. REPEAT the self-test, CLEAR the DTCs. REACTIVATE the system. REFER to Air Bag and Safety Belt Pretensioner Supplemental Restraint System (SRS) in Mazda2 Workshop Manual.</p> <p>→NO GO to AT6</p>

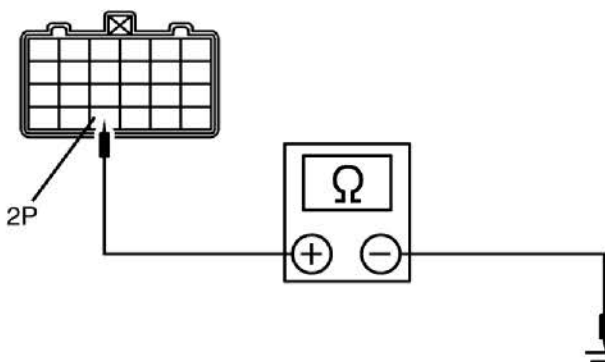
PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

CONDITIONS	DETAILS/RESULTS/ACTIONS
AT6: CHECK FOR CONTINUITY BETWEEN THE RESTRAINT CONTROL MODULE AND THE PAD INDICATOR	
	<ol style="list-style-type: none"> 1 Disconnect restraint control module connector. 2 Measure the resistance between the restraint control module connector terminal 2S (harness side) and PAD indicator connector terminal A (harness side). <p>Is the resistance less than 5 ohms?</p> <p>→YES INSTALL a new restraint control module. REFER to Restraint Control Module in Mazda2 Workshop Manual. REPEAT the self-test, CLEAR the DTCs. REACTIVATE the system. REFER to Air Bag and Safety Belt Pretensioner Supplemental Restraint System (SRS) in Mazda2 Workshop Manual.</p> <p>→NO REPAIR related wiring harness. REPEAT the self-test, CLEAR the DTCs. REACTIVATE the system. REFER to Air Bag and Safety Belt Pretensioner Supplemental Restraint System (SRS) in Mazda2 Workshop Manual.</p>

PINPOINT TEST AU: DTC B2791 PASSENGER AIR BAG DEACTIVATION SWITCH IN MIDDLE POSITION

CONDITIONS	DETAILS/RESULTS/ACTIONS
<p>WARNING Wait at least one minute after disconnecting the battery ground cable before disconnecting any supplemental restraint system electrical connector. Failure to follow this instruction may result in personal injury.</p>	
AU1: CHECK THE PASSENGER AIR BAG DEACTIVATION (PAD) INDICATOR OPERATION	
	<ol style="list-style-type: none"> 1 Key in ON position. 2 Operate the PAD switch to the OFF position. <p>Does the PAD indicator LED illuminate?</p> <p>→YES GO to AU2.</p> <p>→NO GO to AU3.</p>
AU2: CHECK FOR CONTINUITY BETWEEN THE PAD INDICATOR AND GROUND	
	<ol style="list-style-type: none"> 1 Deactivate the supplemental restraint system. REFER to Air Bag and Safety Belt Pretensioner Supplemental Restraint System (SRS) in Mazda2 Workshop Manual. 2 Disconnect PAD switch connector. 3 Operate the ignition switch to the ON position. <p>Does the pad indicator LED illuminate?</p> <p>→YES REPAIR related wiring harness. REPEAT the self-test, CLEAR the DTCs. REACTIVATE the system. REFER to Air Bag and Safety Belt Pretensioner Supplemental Restraint System (SRS) in Mazda2 Workshop Manual.</p> <p>→NO GO to AU3.</p>

PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

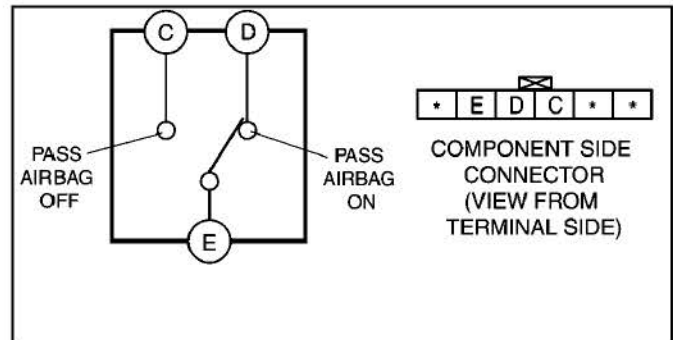
CONDITIONS	DETAILS/RESULTS/ACTIONS
AU3: CHECK THE PAD CONTROL SWITCH GROUND CIRCUIT	1 Key in OFF position.
	2 Disconnect restraint control module connector.
	3 Measure the resistance between the restraint control module connector terminal 2P (harness side) and ground. Is the resistance greater than 10,000 ohms? → YES INSTALL a new restraint control module. REFER to Restraint Control Module in Mazda2 Workshop Manual. REPEAT the self-test, CLEAR the DTCs. REACTIVATE the system. REFER to Air Bag and Safety Belt Pretensioner Supplemental Restraint System (SRS) in Mazda2 Workshop Manual. → NO REPAIR related wiring harness. REPEAT the self-test, CLEAR the DTCs. REACTIVATE the system. REFER to Air Bag and Safety Belt Pretensioner Supplemental Restraint System (SRS) in Mazda2 Workshop Manual.

PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH INSPECTION

- Verify continuity as indicated in the table.
-If there is any malfunction, replace the PAD switch.

○—○ : Continuity

Switch position	Terminal		
	E	C	D
PASS AIRBAG OFF	○—○		
PASS AIRBAG ON	○	○—○	○



- Verify that there is no continuity between the following PAD switch terminals when the PAD switch is off position.
 - C and D
 - D and E
- Verify that there is no continuity between the following PAD switch terminals when the PAD switch is on position.
 - C and D
 - C and E

PASSENGER AIR BAG DEACTIVATION SYSTEM INSTALLATION & DIAGNOSIS INSTRUCTIONS

CUSTOMER DECLARATION FORM:

Dealer and Customer details

Dealer	Customer
Name:	Name:
Dealer Number:	Customer Address:
Dealer Address:	

Vehicle Details

Model:	
Licence Plate:	
Chassis No:	
Speedometer:	

Signature

Dealer	Customer
Signature:	Signature:
Name:	Name:
Date:	Date:
The operation and function of the switch has been fully explained to the customer.	I agree to the installation of a passenger air bag deactivation (PAD) switch from the above-mentioned date. The operation and function of the switch has been fully explained.

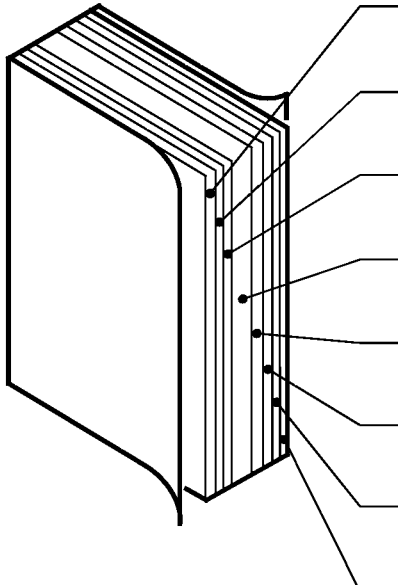
NOTE: TO CUSTOMER: Some insurance companies may require to be notified of any changes affecting the restraints system on your vehicle-please check with your insurance provider.

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Contents of wiring diagrams

- This manual comprises the sections shown below.

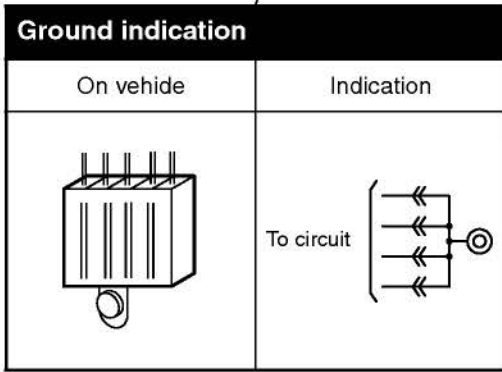
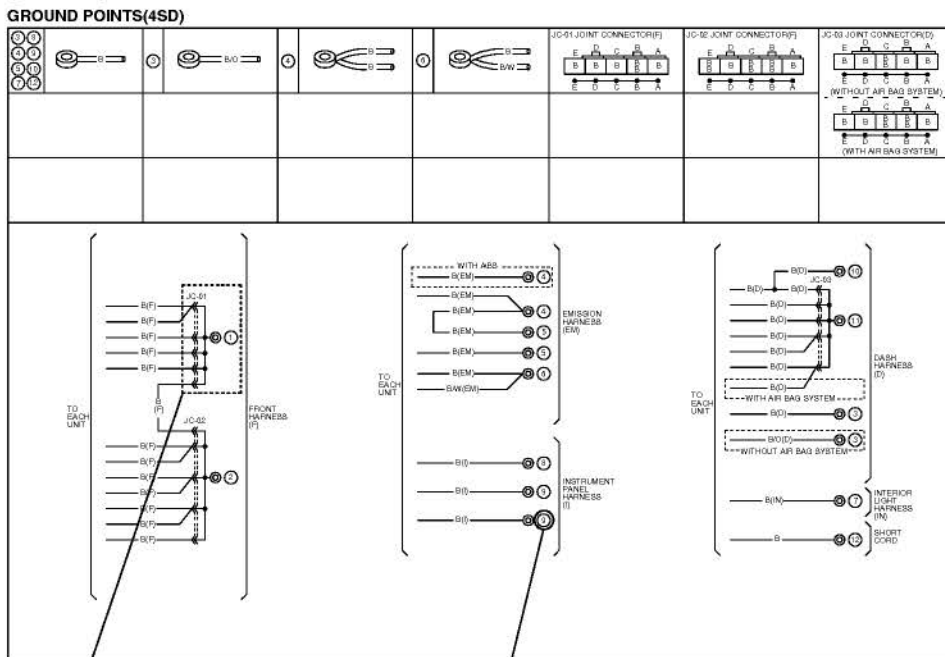


GI	General information of wiring diagrams	A how-to on using and reading wiring diagrams, using test equipment, checking harness and connectors, and finding trouble spots
Y	Ground points	Ground routes from and to the battery
W	Electrical wiring schematic	Shows main fuses and other fuses for each system
A-U	System circuit diagram/ connector locations	Shows circuit and connector diagrams and component and connector location diagrams
X	Common connectors	Shows connectors common throughout system
JB	Joint box complete wiring system	Shows internal circuits and connectors
FB	Main fuse block complete wiring system	Shows internal circuits and connectors
AI	Alphabetical Index	Gives page number of circuit diagram for each component

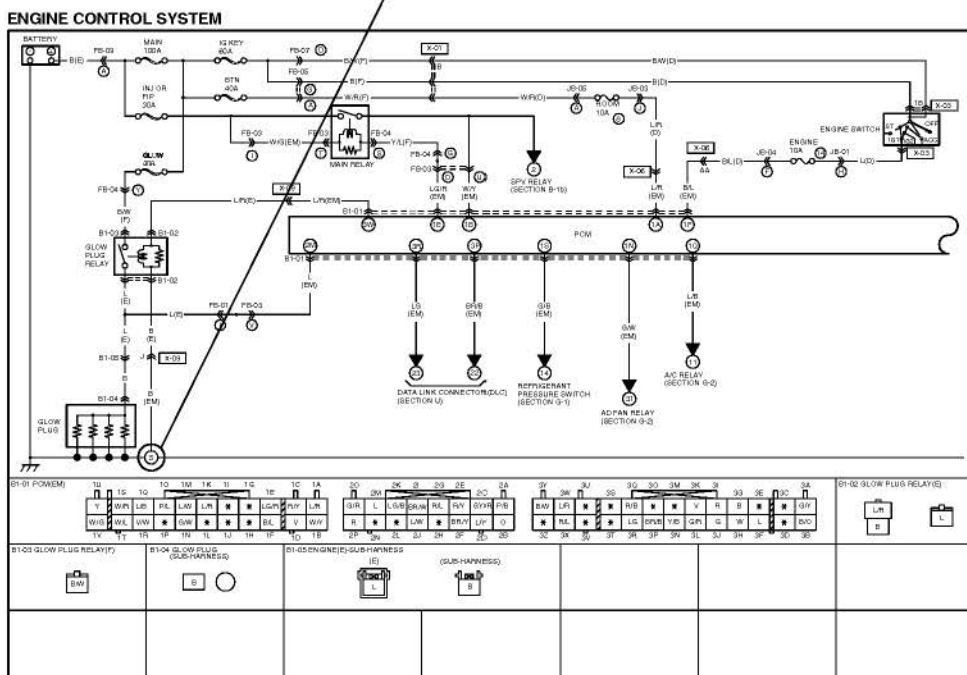
Depending on the vehicle model, the actual sections may be different.

Ground points

- This shows ground points of the harness.



On circuit diagrams and ground points
 The ground connection numbers in system circuit diagrams correspond to those in the ground point diagram.

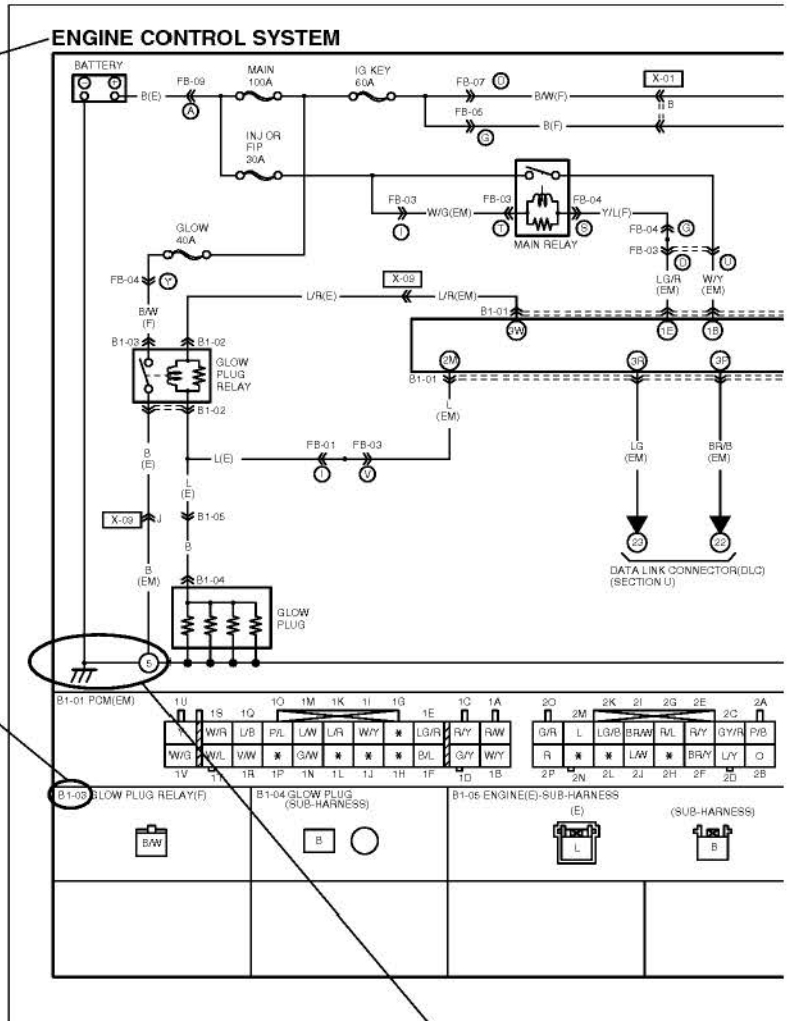


System circuit diagram/connector diagram

- These diagrams show the circuits for each system, from the power supply to the ground. The power supply side is on the upper part of the page, the ground side on the lower part. The diagrams describe circuits with the ignition switch off.

Below is an explanation of the various points in the diagram.

System name



Connector code

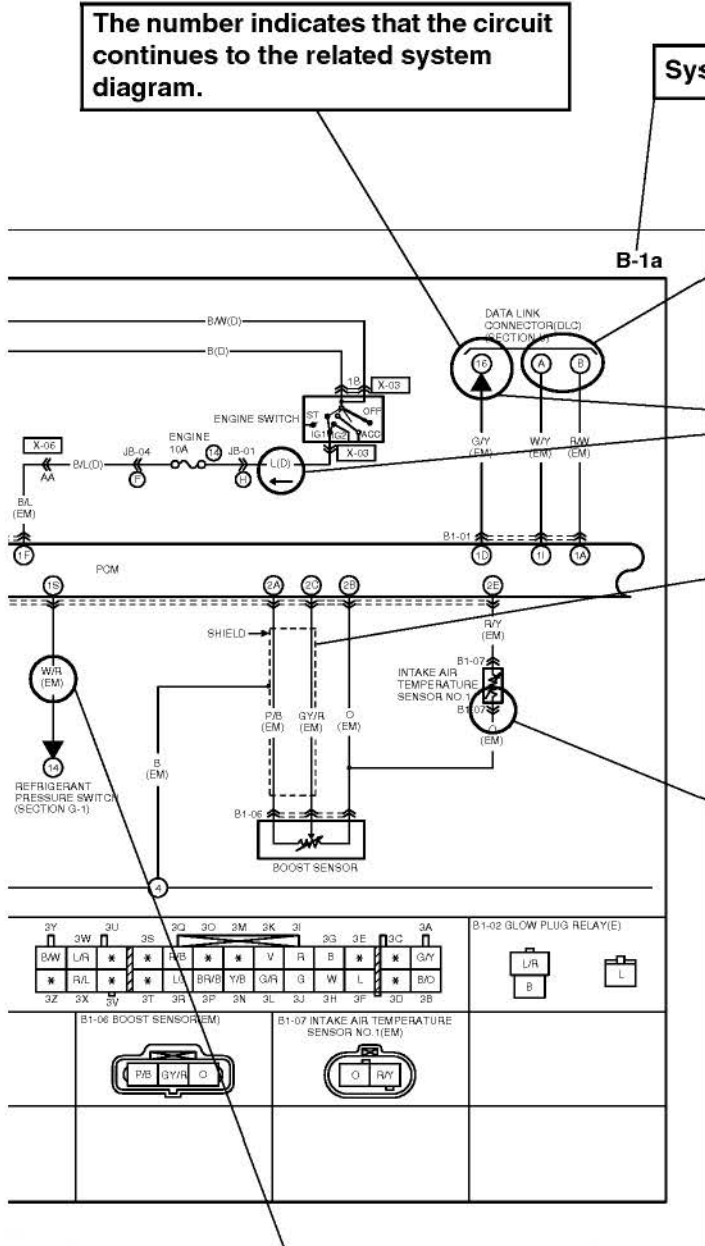
The prefix letter indicates the system in which the connector is used.

- Y : Ground connector
- A : Charging system/starting system connectors
- B : Engine control system connectors
- C : Gauge control system connectors
- D : Wiper system connectors
- E : Lighting system connectors
- F : Signal system connectors
- G : Air-conditioning system connectors
- H : Transmission control/Key interlock/Shift-lock system connectors
- I : Interior light system connectors
- J : Audio/radio connectors
- K : Power window/power door lock system connectors
- L : Remote control mirror system connectors
- M : Sliding sunroof system connectors
- O : Anti-lock brake system connectors
- P : Power seat/seat warmer system connectors
- Q : Auto cruise control system connectors
- S : Passive shoulder belt control/Supplemental Restraint system connectors
- T : Others
- U : Data link connector
- X : Common connectors
- JB : Joint box connections
- FB : Main fuse block

Ground numbers

A harness ground is represented differently than a unit ground.

Types of grounds	Symbol
<p>Harness</p>	
<p>Unit</p>	



The number indicates that the circuit continues to the related system diagram.

System code

Multiplex communication
Indicates communication with connected parts. Signals are transmitted back and forth between connected parts.

Current symbol
Current flows in the direction of the arrow.

Indicates shield.*
* Shield : Prevents signal disturbances from electrical interference. Wire is covered by a metal meshing for grounding.

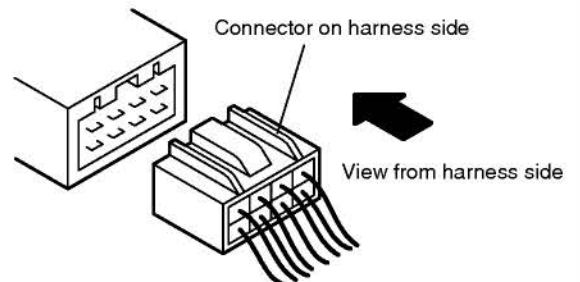
Connector symbols

• Male and female connectors are represented as follows in the circuit and connector diagrams.

	Circuit diagram symbol	Connector diagram symbol
Male		
Female		

• Like connectors are linked by dashed lines between the connector symbols.
• Connector diagrams show connectors on the harness side. The terminal indicates the view from the harness side.

(Example)



• Colors for connectors except white are given in locations.
• Unused terminals are indicated by * .

Wire color code (harness symbol)

- Two-color wires are indicated by a two-letter symbol. The first indicates the base color of the wire, the second the color of the stripe. For example:
W/R is a white wire with a red strip
BR/Y is a brown wire with a yellow strip

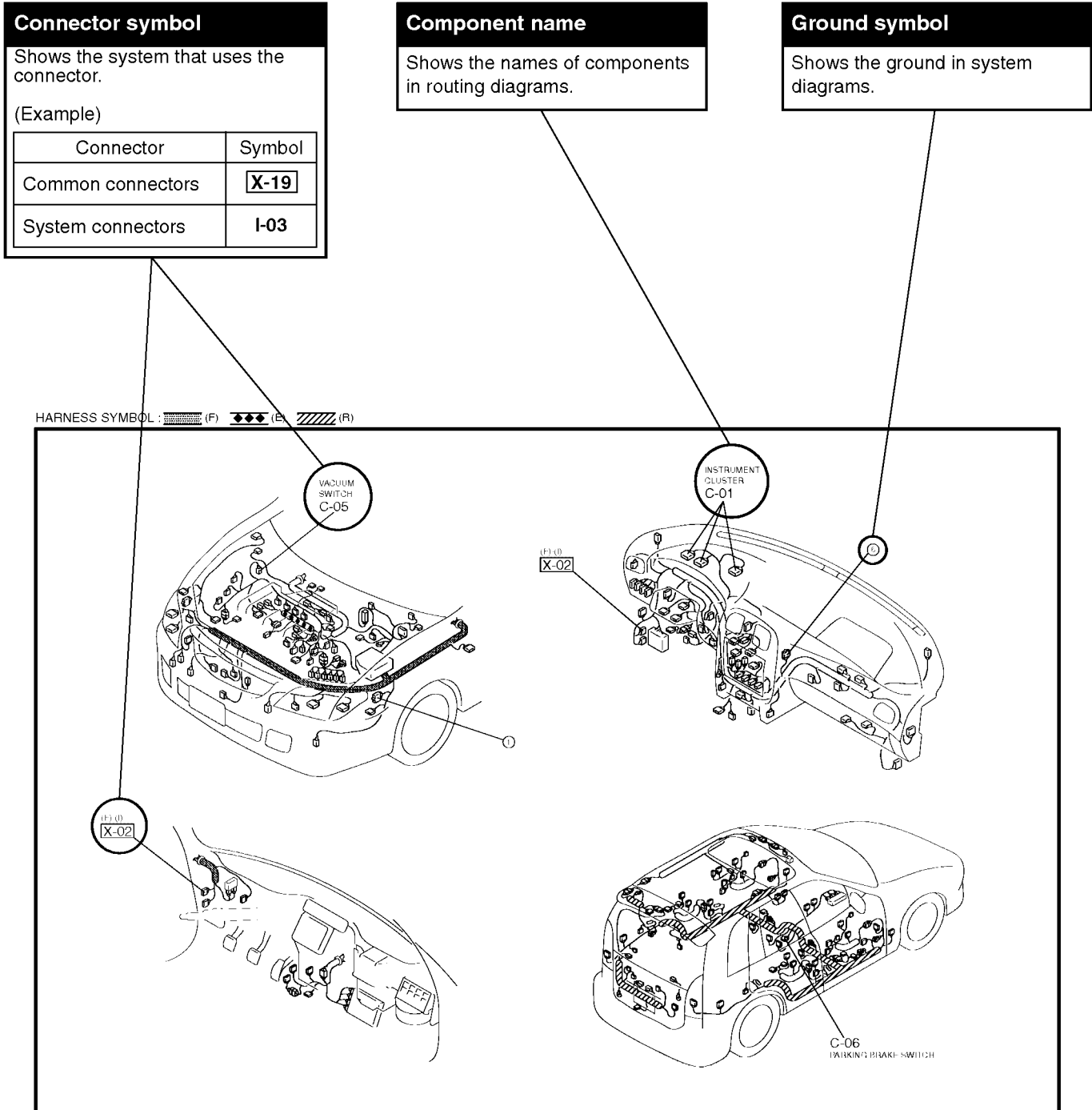
Symbol (Example)

	Solid color wire		Striped wire
Black		White (base color)	
Red(stripe)			





- The harness symbol is in () following the harness symbols (refer to P-7.).

Routing diagram

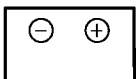

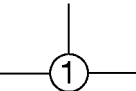

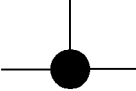


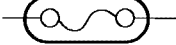
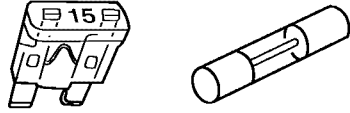
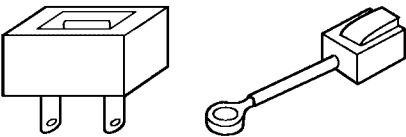


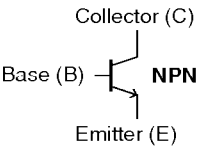
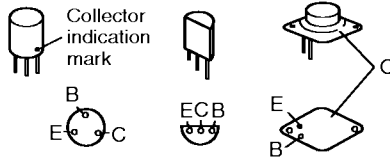

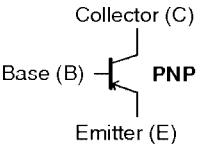
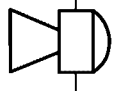
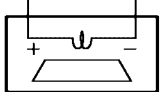
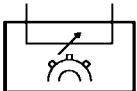
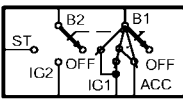
- The routing diagram shows where electrical components are on the system circuit diagram by call out line and connector symbols.

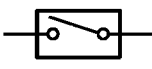

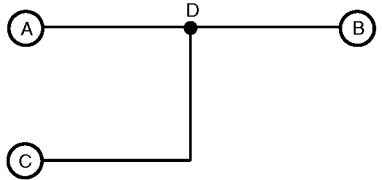
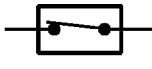

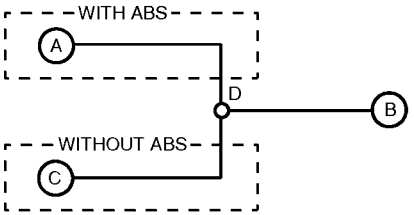
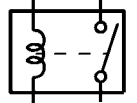
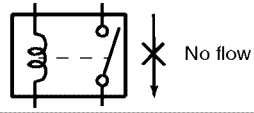
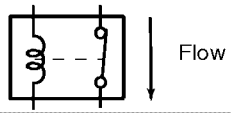
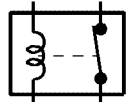
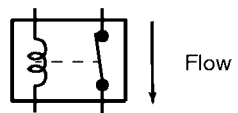
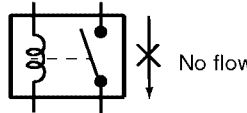
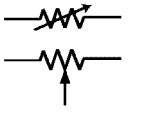
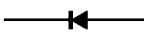
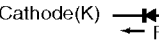
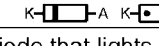
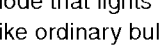
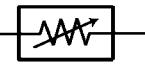

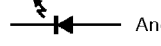
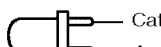
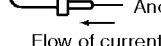
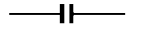
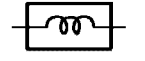



Harness symbols

DESCRIPTION OF HARNESS	SYMBOL		DESCRIPTION OF HARNESS	SYMBOL	
FRONT HARNESS	(F)		DOOR NO.1 HARNESS	(DR1)	
FRONT NO.2 HARNESS	(F2)		DOOR NO.2 HARNESS	(DR2)	
ENGINE HARNESS	(E)		DOOR NO.3 HARNESS	(DR3)	
DASH HARNESS	(D)		DOOR NO.4 HARNESS	(DR4)	
REAR HARNESS	(R)		FLOOR HARNESS	(FR)	
REAR NO.2 HARNESS	(R2)		INTERIOR LIGHT HARNESS	(IN)	
REAR NO.3 HARNESS	(R3)		A/C HARNESS	(AC)	
INSTRUMENT PANEL HARNESS	(I)		INJECTION HARNESS	(INJ)	
EMISSION HARNESS	(EM)		HAND BRAKE HARNESS	(HB)	
EMISSION NO.2 HARNESS	(EM2)				
EMISSION NO.3 HARNESS	(EM3)				

Symbols

Symbol	Meaning	Symbol	Meaning
<p>Battery</p> 	<ul style="list-style-type: none"> Generates electricity through chemical reaction. Supplies direct current to circuits. 	<p>Light</p> 	<ul style="list-style-type: none"> Emits light and generates heat when current flows through filament.
<p>Ground (1)</p> 	<ul style="list-style-type: none"> Connecting point to vehicle body or other ground wire where current flows from positive to negative terminal of battery. Ground (1) indicates a ground point to body through wire harness. Ground (2) indicates point where component is grounded directly to body. <p>Remarks</p> <ul style="list-style-type: none"> Current will not flow through a circuit if ground is faulty. 	<p>Resistance</p> 	<ul style="list-style-type: none"> A resistor with a constant value. Mainly used to protect electrical components in circuits by maintaining rated voltage.
<p>Ground (2)</p> 		<p>Fuse (1)</p>  <p>(box)</p>	<p>Motor</p> 
<p>Fuse (2)</p>  <p>(Cartridge)</p>	<p>Precautions</p> <ul style="list-style-type: none"> Do not replace with fuses exceeding specified capacity. <p><Blade type> <Tube type></p>  <p><Cartridge type> <Fusible link></p> 	<p>Pump</p> 	<ul style="list-style-type: none"> Pulls in and discharges gases and liquids.
<p>Main fuse/ Fusible link</p> 		<p>Transistor (1)</p>  <p>Collector (C) Base (B) NPN Emitter (E)</p> 	<p>Cigarette lighter</p> 
<p>Transistor (2)</p>  <p>Collector (C) Base (B) PNP Emitter (E)</p> <p>Reading code:</p> <p>2 S C 828 A</p> <p>Semiconductor Number of terminals Revision mark</p> <p>(A:High-frequency PNP B:Low-frequency PNP C:High-frequency NPN D:Low-frequency NPN)</p>	<p>Horn</p> 	<p>Horn</p> <ul style="list-style-type: none"> Generates sound when current flows. 	
		<p>Speaker</p> 	<p>Speaker</p> <ul style="list-style-type: none"> Generates sound when current flows.
		<p>Speed sensor</p> 	<p>Speed sensor</p> <ul style="list-style-type: none"> Movement of magnet in speedometer turns contact within sensor on and off.
		<p>Ignition switch</p> 	<p>Ignition switch</p> <ul style="list-style-type: none"> Turning ignition key switches circuit to operate various component. <p>(NOTE) Ignition switch is called engine switch on diesel vehicles.</p>

Symbol	Meaning	Symbol	Meaning
<p>Switch (1)</p>  <p>Normally open (NO)</p>	<ul style="list-style-type: none"> Allows or breaks current flow by opening and closing circuits. 	<p>Harness Connection</p>  <p>When circuit C-D is connected to circuit A-B, the connection D is indicated by a black dot.</p>	 <p>For vehicles with ABS, use the A-B circuit.</p>
<p>Switch (2)</p>  <p>Normally closed (NC)</p>		<p>Selection</p>  <p>Diversion point D for the different circuits according to the vehicle's specification is indicated by a white dot.</p>	 <p>For vehicles without ABS, use the C-B circuit.</p>
<p>Relay (1)</p>  <p>Normally open (NO)</p>	<ul style="list-style-type: none"> Current flowing through coil produces electromagnetic force causing contact to open or close. <p>No current to coil</p>  <p>Current to coil</p> 		
<p>Relay (2)</p>  <p>Normally closed (NC)</p>	<ul style="list-style-type: none"> Current flowing through coil produces electromagnetic force causing contact to close. <p>No current to coil</p>  <p>Current to coil</p> 		
<p>Sensor (variable)</p> 	<ul style="list-style-type: none"> Resistance changes with other components operation. 	<p>Diode</p> 	<ul style="list-style-type: none"> Known as a semiconductor rectifier, the diode allows current flow in one direction only. <p>Cathode(K)  Anode(A)  Flow of electric current  Cathode(K) Anode(A)</p>
<p>Sensor (thermistor)</p> 	<ul style="list-style-type: none"> Resistance changes with temperature. 	<p>Light-emitting diode (LED)</p> 	<ul style="list-style-type: none"> A diode that lights when current flows. Unlike ordinary bulbs, the diode does not generate heat when lit. <p>Cathode(K)  Anode(A)  Cathode(K)  Anode(A) Flow of current</p>
<p>Capacitor</p> 	<ul style="list-style-type: none"> Component that temporarily stores electrical charge. 		
<p>Solenoid</p> 	<ul style="list-style-type: none"> Current flowing through coil generates electromagnetic force to operate plungers. 	<p>Reference diode (Zener diode)</p> 	<ul style="list-style-type: none"> Allows current to flow in one direction up to a certain voltage; allows current to flow in the other direction once that voltage is exceeded.

Symbol	Meaning
<p>Extent of the change in the wiring position (1)</p>	<ul style="list-style-type: none"> The wiring position can be exchanged freely within the connector.
<p>Extent of the change in the wiring position (2)</p>	<ul style="list-style-type: none"> The wiring position can be exchanged according to the following combinations only. Between A and B, Between C and D, Between E and F
<p>Extent of the change in the wiring position (3)</p>	<ul style="list-style-type: none"> The wiring position can be exchanged according to the following combinations only. Between 1, 2, 4 and 7. The wiring positions may be indicated by numbers for some connectors.

Abbreviations used in this manual

3GR	Third Gear
4GR	Fourth Gear
A	Ampere
A/C	Air Conditioning
A/F	Air Fuel
AAS	Auto Adjusting Suspension
ABS	Anti-lock Braking System
ACC	Accessories
ACV	Air Control Valve
ADD	Additional
AIS	Air Injection System
ALL	Automatic Load Leveling
AM	Amplitude Modulation
AMP	Amplifier
ANT	Antenna
ASV	Air Supply Valve
AT	Automatic Transmission
ATX	Automatic Transaxle
B+	Battery Positive Voltage
BAC	Bypass Air Control
CAN	Controller Area Network
CARB	Carburetor
CIGAR	Cigarette
CIS	Continuous Fuel Injection System
CKP	Crankshaft Position Sensor
CM	Control Module
CMP	Camshaft Position Sensor
COMBI	Combination

CON	Conditioner
CONT	Control
CPU	Central Processing Unit
DEF	Defroster
DI	Distributor Ignition
DLC	Data Link Connector
DLI	Distributorless Ignition
DOHC	Double-Overhead Camshaft
DRL	Daytime Running light
DTC	Diagnostic Trouble Code(s)
DTM	Diagnostic Test Mode
ECPS	Electronically Controlled Power Steering
ECT	Engine Control Temperature
EGR	Exhaust Gas Recirculation
EI	Electronic Ignition
ELEC	Electric
ELR	Emergency Locking Retractor
ET	Electronic Throttle
EVAP	Evaporative emission
F	Front
F/I	Fuel Injector
FICB	Fast-Idle Cam Breaker
FM	Frequency Modulation
FP	Fuel Pump
FPR	Fuel Pump Relay
GEN	Generator
GND	Ground
H/D	Heater/Defroster

Reading Wiring Diagrams

GI

HEAT	Heater
HI	High
HO2S	Heated Oxygen Sensor
HU	Hydraulic Unit
IAC	Idle Air Control
IAT	Intake Air Temperature
IG	Ignition
ILLUMI	Illumination
INT	Intermittent
JB	Joint Box
KS	Knock Sensor
LCD	Liquid Crystal Display
LF	Left Front
LH	Left Hand
LO	Low
LR	Left Rear
M	Motor
MAF	Mass Air Flow
MAP	Manifold Absolute Pressure
MFI	Multipoint Fuel Injection
MID	Middle
MIL	Malfunction Indicator Lamp
MIN	Minute
MIX	Mixture
MPX	Multiplex
MT	Manual Transmission
MTX	Manual Transaxle
N	Neutral
NC	Normally Closed
NO	Normally Open
O2S	Oxygen Sensor
OBD	On-board Diagnostic
O/D	Over Drive
OFF	Switch Off
ON	Switch On
OSC	Oscillator
P	Power
P/S	Power Steering
PCM	Powertrain Control Module
PNP	Park/Neutral Position
PRC	Pressure Regulator Control
PRG	Purge Solenoid Valve
PSP	Power Steering Pressure
PTC	Positive Temperature Coefficient Heater
PWM	Pulse Width Modulation
QSS	Quick-Start System
R	Rear
REC	Recirculation
RF	Right Front
RH	Right Hand
RPM	Revolutions Per Minute

RR	Right Rear
SAS	Sophisticated Air Bag Sensor
SFI	Sequential Multipoint Fuel Injection
SOL	Solenoid
SPV	Spill Valve
ST	Start
SW	Switch
TC	Turbocharger
TCC	Torque Converter Clutch
TCM	Transmission(Transaxle)Control Module
TCS	Traction control system
TEMP	Temperature
TFT	Transaxle Fluid Temperature
TNS	Tail Number Side Lights
TICS	Triple Induction Control System
TP	Throttle Position Sensor
TR	Transmission(Transaxle)Range
TWS	Total Wiring System
V	Volt
VAF	Volume Air Flow Sensor
VENT	Ventilation
VICS	Variable Inertia Charging System
VOL	Volume
VR	Voltage Regulator
VRIS	Variable Resonance Induction System
VSS	Vehicle Speed Sensor
VTCS	Variable Tumble Control System
W	Watt(s)
WOT	Wide Open Throttle

Terminological comparison

- In this manual, some system and part names different from those previously used in Mazda service manuals are used. The following is a comparison list of the terms used in this manual and the original terms.

TERMS USED IN THIS MANUAL	ORIGINAL TERMS
A/C COMPRESSOR CLUTCH	MAGNETIC CLUTCH SOLENOID
A/C COMPRESSOR CLUTCH DIODE	MAGNETIC CLUTCH DIODE
A/C CYCLING SWITCH	A/C CYLINDER SWITCH
A/C WIDE OPEN THROTTLE (WOT) RELAY	A/C RELAY
ABS MODULE / ELECTRONIC STABILITY PROGRAM (ESP) MODULE	ABS/DSC HYDRAULIC UNIT/CONTROL MODULE (HU/CM)
ACCELERATOR PEDAL POSITION SENSOR	ACCELERATOR POSITION SENSOR
ANTI-THEFT MODULE	THEFT-DETERRENT CONTROL MODULE
ANTI-THEFT ACTIVE	THEFT-DETERRENT SYSTEM
ANTI-THEFT HORN	THEFT-DETERRENT HORN
AUTOLAMP SWITCH	AUTO-STOP SWITCH
BATTERY JUNCTION BOX	RELAY AND MAIN FUSE BLOCK
BLOWER MOTOR SWITCH	FAN SWITCH
BRAKE FLUID LEVEL SWITCH	BRAKE FLUID LEVEL SENSOR
BRAKE PEDAL POSITION SWITCH	BRAKE PEDAL SWITCH
CENTRAL LOCKING SYSTEM	POWER DOOR LOCK SYSTEM
CIGAR LIGHTER	CIGARETTE LIGHTER
CLIMATE CONTROL MODULE	CLIMATE CONTROL UNIT
CLUTCH PEDAL POSITION SWITCH	CLUTCH SWITCH
CRASH SENSOR	CRASH ZONE SENSOR
CUT-OFF SWITCH	POWER-CUT SWITCH
DATA LINK CONNECTOR	DATA LINK CONNECTOR 2
DAYTIME RUNNING LAMP	RUNNING LIGHT
DIRECTION INDICATOR LAMP	TURN LIGHT
DIRECTION INDICATOR SWITCH	TURN SWITCH
DOOR AJAR SWITCH	DOOR SWITCH
DOOR LOCK BUTTON	DOOR LOCK-LINK SWITCH
DOOR LOCK CONTROL SWITCH	DOOR KEY CYLINDER SWITCH
DOOR LOCKING MODULE	DOOR LOCK TIMER UNIT
DRIVER AIR BAG MODULE	DRIVER-SIDE AIR BAG MODULE
DRIVER POWER WINDOW CONTROL SWITCH	POWER WINDOW MAIN SWITCH
DRIVER SAFETY BELT PRETENSIONER	DRIVER-SIDE PRE-TENSIONER SEAT BELT
DRIVER SIDE AIR BAG MODULE	DRIVER-SIDE SIDE AIR BAG MODULE
DRIVER SIDE AIR CURTAIN MODULE	DRIVER-SIDE CURTAIN AIR BAG MODULE
DRIVER SIDE IMPACT SENSOR	DRIVER-SIDE SIDE AIR BAG SENSOR
DUAL PRESSURE SWITCH	REFRIGERANT PRESSURE SWITCH
ELECTRONIC ENGINE CONTROL	ENGINE CONTROL SYSTEM
ELECTRONIC STABILITY PROGRAM (ESP)	DYNAMIC STABILITY CONTROL (DSC) SYSTEM
ENGINE COMPARTMENT SWITCH	BONNET SWITCH
ESP DEACTIVATION SWITCH	DSC OFF SWITCH
EXHAUST GAS RECIRCULATION (EGR) VACUUM REGULATOR SOLENOID	EGR SOLENOID VALVE
EXTERIOR MIRROR	POWER OUTSIDE MIRROR
FRONT AND REAR FOG LAMP SWITCH	FRONT AND REAR FOG LIGHT SWITCH
FRONT FOG LAMP	FRONT FOG LIGHT
FRONT INTERMITTENT WIPER POTENTIOMETER	FRONT INTERMITTENT WIPER VOLUME
GEARSHIFT LEVER ILLUMINATION	SELECTOR ILLUMINATION
HAZARD FLASHER SWITCH	HAZARD WARNING SWITCH
HEADLAMP	HEADLIGHT
HEADLAMP LEVELING MOTOR	HEADLIGHT LEVELING ACTUATOR
HEADLAMP LEVELING SWITCH	HEADLIGHT LEVELING SWITCH
HEATED EXTERIOR MIRROR	HEATED OUTSIDE MIRROR
HEATED REAR WINDOW	REAR WINDOW DEFROSTER
HEATED REAR WINDOW SWITCH	REAR WINDOW DEFROSTER SWITCH
HEATED REAR WINDOW SWITCH ILLUMINATION	REAR WINDOW DEFROSTER SWITCH ILLUMINATION

TERMS USED IN THIS MANUAL	ORIGINAL TERMS
HEATER BLOWER MOTOR	BLOWER MOTOR
HEATER BLOWER MOTOR RELAY	BLOWER RELAY
HEATING AND VENTILATION / AIR CONDITIONING	HEATER AND AIR CONDITIONER
HIGH BEAM RELAY	HEADLIGHT HIGH RELAY
HIGH MOUNTED STOPLAMP	HIGH-MOUNT BRAKE LIGHT
IDLE AIR CONTROL VALVE	IDLE SPEED MOTOR
ILLUMINATION DIMMER	PANEL LIGHT CONTROL SWITCH
ILLUMINATION LAMP	ILLUMINATION LIGHT
IMMOBILIZER COIL	COIL
JOINT AND RELAY BOX	JOINT BOX
KEY IN IGNITION WARNING SWITCH	KEY REMINDER SWITCH
LICENSE PLATE LAMP	LICENSE PLATE LIGHT
LIFTGATE LATCH ACTUATOR	LIFTGATE LOCK ACTUATOR
LIGHT SWITCH	HEADLIGHT SWITCH
LOW BEAM RELAY	HEADLIGHT LOW RELAY
LUGGAGE COMPARTMENT LAMP	CARGO COMPARTMENT LIGHT
MAP READING LAMP	MAP LIGHT
MICROPROCESSOR	MICROCOMPUTER
PARKING LAMP	PARKING LIGHT
PASSENGER / RH REAR / LH REAR POWER WINDOW CONTROL SWITCH	POWER WINDOW SUBSWITCH
PASSENGER AIR BAG DEACTIVATION (PAD) INDICATOR	PASSENGER-SIDE AIR BAG CUT-OFF INDICATOR
PASSENGER AIR BAG MODULE	PASSENGER-SIDE AIR BAG MODULE
PASSENGER SAFETY BELT PRETENSIONER	PASSENGER-SIDE PRE-TENSIONER SEAT BELT
PASSENGER SIDE AIR BAG MODULE	PASSENGER-SIDE SIDE AIR BAG MODULE
PASSENGER SIDE AIR CURTAIN MODULE	PASSENGER-SIDE CURTAIN AIR BAG MODULE
PASSENGER SIDE IMPACT SENSOR	PASSENGER-SIDE SIDE AIR BAG SENSOR
POST-CATALYST HEATED OXYGEN SENSOR (HO ₂ S)	HEATED OXYGEN SENSOR (DOWN)
PRE-CATALYST HEATED OXYGEN SENSOR (HO ₂ S)	HEATED OXYGEN SENSOR (UP)
PRE-GLOW RELAY, DIESEL	DIESEL PRE-GLOW RELAY
REAR FOG LAMP	REAR FOG LIGHT
REAR WINDOW HEATER	FILAMENT
REAR WINDOW WIPER MOTOR	REAR WIPER MOTOR
RESTRAINTS CONTROL MODULE	SAS UNIT
REVERSING LAMP	BACK-UP LIGHT
SAFETY BELT BUCKLE SWITCH	BUCKLE SWITCH
SEAT CUSHION HEATER	SEAT WARMER
SHIELD	SHIELD WIRE
SHORTING BAR	SHORT BAR
SIDE TURN SIGNAL LAMP	FRONT SIDE TURN LIGHT
START INHIBITOR	IMMOBILIZER SYSTEM
STARTER MOTOR	STARTER
STEERING POSITION SENSOR	STEERING ANGLE SENSOR
STOP LAMP	BRAKE LIGHT
STOP LAMP SWITCH	BRAKE SWITCH
SUB-HARNESS	SHORT CORD
SUPPLEMENTAL RESTRAINT SYSTEM	AIR BAG SYSTEM
TAIL LAMP	TAILLIGHT
TURN SIGNAL AND HAZARD LAMP	TURN AND HAZARD WARNING LIGHT
VEHICLE SPEED SENSOR	VEHICLE SPEEDOMETER SENSOR
WASHER PUMP MOTOR, FRONT AND REAR	WASHER MOTOR
WASHER PUMP RELAY, FRONT AND REAR	WASHER RELAY
WINDOW REGULATOR MOTOR, DRIVER SIDE FRONT (or PASSENGER SIDE FRONT)	FRONT POWER WINDOW MOTOR
WINDSHIELD WIPER HIGH RELAY	FRONT WIPER HIGH RELAY
WINDSHIELD WIPER MOTOR	FRONT WIPER MOTOR
WINDSHIELD WIPER RELAY	FRONT WIPER RELAY
WIPER / WASHER SWITCH	WIPER AND WASHER SWITCH
YAW RATE / ACCELEROMETER SENSOR	COMBINE SENSOR

ORIGINAL TERMS	TERMS USED IN THIS MANUAL
A/C CYLINDER SWITCH	A/C CYCLING SWITCH
A/C RELAY	A/C WIDE OPEN THROTTLE (WOT) RELAY
ABS/DSC HYDRAULIC UNIT/CONTROL MODULE (HU/CM)	ABS MODULE / ELECTRONIC STABILITY PROGRAM (ESP) MODULE
ACCELERATOR POSITION SENSOR	ACCELERATOR PEDAL POSITION SENSOR
AIR BAG SYSTEM	SUPPLEMENTAL RESTRAINT SYSTEM
AUTO-STOP SWITCH	AUTOLAMP SWITCH
BACK-UP LIGHT	REVERSING LAMP
BLOWER MOTOR	HEATER BLOWER MOTOR
BLOWER RELAY	HEATER BLOWER MOTOR RELAY
BONNET SWITCH	ENGINE COMPARTMENT SWITCH
BRAKE FLUID LEVEL SENSOR	BRAKE FLUID LEVEL SWITCH
BRAKE LIGHT	STOP LAMP
BRAKE PEDAL SWITCH	BRAKE PEDAL POSITION SWITCH
BRAKE SWITCH	STOP LAMP SWITCH
BUCKLE SWITCH	SAFETY BELT BUCKLE SWITCH
CARGO COMPARTMENT LIGHT	LUGGAGE COMPARTMENT LAMP
CIGARETTE LIGHTER	CIGAR LIGHTER
CLIMATE CONTROL UNIT	CLIMATE CONTROL MODULE
CLUTCH SWITCH	CLUTCH PEDAL POSITION SWITCH
COIL	IMMOBILIZER COIL
COMBINE SENSOR	YAW RATE / ACCELEROMETER SENSOR
CRASH ZONE SENSOR	CRASH SENSOR
DATA LINK CONNECTOR 2	DATA LINK CONNECTOR
DIESEL PRE-GLOW RELAY	PRE-GLOW RELAY, DIESEL
DOOR KEY CYLINDER SWITCH	DOOR LOCK CONTROL SWITCH
DOOR LOCK TIMER UNIT	DOOR LOCKING MODULE
DOOR LOCK-LINK SWITCH	DOOR LOCK BUTTON
DOOR SWITCH	DOOR AJAR SWITCH
DRIVER-SIDE AIR BAG MODULE	DRIVER AIR BAG MODULE
DRIVER-SIDE CURTAIN AIR BAG MODULE	DRIVER SIDE AIR CURTAIN MODULE
DRIVER-SIDE PRE-TENSIONER SEAT BELT	DRIVER SAFETY BELT PRETENSIONER
DRIVER-SIDE SIDE AIR BAG MODULE	DRIVER SIDE AIR BAG MODULE
DRIVER-SIDE SIDE AIR BAG SENSOR	DRIVER SIDE IMPACT SENSOR
DSC OFF SWITCH	ESP DEACTIVATION SWITCH
DYNAMIC STABILITY CONTROL (DSC) SYSTEM	ELECTRONIC STABILITY PROGRAM (ESP)
EGR SOLENOID VALVE	EXHAUST GAS RECIRCULATION (EGR) VACUUM REGULATOR SOLENOID
ENGINE CONTROL SYSTEM	ELECTRONIC ENGINE CONTROL
FAN SWITCH	BLOWER MOTOR SWITCH
FILAMENT	REAR WINDOW HEATER
FRONT AND REAR FOG LIGHT SWITCH	FRONT AND REAR FOG LAMP SWITCH
FRONT FOG LIGHT	FRONT FOG LAMP
FRONT INTERMITTENT WIPER VOLUME	FRONT INTERMITTENT WIPER POTENTIOMETER
FRONT POWER WINDOW MOTOR	WINDOW REGULATOR MOTOR, DRIVER SIDE FRONT (or PASSENGER SIDE FRONT)
FRONT SIDE TURN LIGHT	SIDE TURN SIGNAL LAMP
FRONT WIPER HIGH RELAY	WINDSHIELD WIPER HIGH RELAY
FRONT WIPER MOTOR	WINDSHIELD WIPER MOTOR
FRONT WIPER RELAY	WINDSHIELD WIPER RELAY
HAZARD WARNING SWITCH	HAZARD FLASHER SWITCH
HEADLIGHT	HEADLAMP
HEADLIGHT HIGH RELAY	HIGH BEAM RELAY
HEADLIGHT LEVELING ACTUATOR	HEADLAMP LEVELING MOTOR
HEADLIGHT LEVELING SWITCH	HEADLAMP LEVELING SWITCH
HEADLIGHT LOW RELAY	LOW BEAM RELAY
HEADLIGHT SWITCH	LIGHT SWITCH
HEATED OUTSIDE MIRROR	HEATED EXTERIOR MIRROR

Reading Wiring Diagrams

GI

ORIGINAL TERMS	TERMS USED IN THIS MANUAL
HEATED OXYGEN SENSOR (DOWN)	POST-CATALYST HEATED OXYGEN SENSOR (HO2S)
HEATED OXYGEN SENSOR (UP)	PRE-CATALYST HEATED OXYGEN SENSOR (HO2S)
HEATER AND AIR CONDITIONER	HEATING AND VENTILATION / AIR CONDITIONING
HIGH-MOUNT BRAKE LIGHT	HIGH MOUNTED STOPLAMP
IDLE SPEED MOTOR	IDLE AIR CONTROL VALVE
ILLUMINATION LIGHT	ILLUMINATION LAMP
IMMOBILIZER SYSTEM	START INHIBITOR
JOINT BOX	JOINT AND RELAY BOX
KEY REMINDER SWITCH	KEY IN IGNITION WARNING SWITCH
LICENSE PLATE LIGHT	LICENSE PLATE LAMP
LIFTGATE LOCK ACTUATOR	LIFTGATE LATCH ACTUATOR
MAGNETIC CLUTCH DIODE	A/C COMPRESSOR CLUTCH DIODE
MAGNETIC CLUTCH SOLENOID	A/C COMPRESSOR CLUTCH
MAP LIGHT	MAP READING LAMP
MICROCOMPUTER	MICROPROCESSOR
PANEL LIGHT CONTROL SWITCH	ILLUMINATION DIMMER
PARKING LIGHT	PARKING LAMP
PASSENGER-SIDE AIR BAG CUT-OFF INDICATOR	PASSENGER AIR BAG DEACTIVATION (PAD) INDICATOR
PASSENGER-SIDE AIR BAG MODULE	PASSENGER AIR BAG MODULE
PASSENGER-SIDE CURTAIN AIR BAG MODULE	PASSENGER SIDE AIR CURTAIN MODULE
PASSENGER-SIDE PRE-TENSIONER SEAT BELT	PASSENGER SAFETY BELT PRETENSIONER
PASSENGER-SIDE SIDE AIR BAG MODULE	PASSENGER SIDE AIR BAG MODULE
PASSENGER-SIDE SIDE AIR BAG SENSOR	PASSENGER SIDE IMPACT SENSOR
POWER DOOR LOCK SYSTEM	CENTRAL LOCKING SYSTEM
POWER OUTSIDE MIRROR	EXTERIOR MIRROR
POWER WINDOW MAIN SWITCH	DRIVER POWER WINDOW CONTROL SWITCH
POWER WINDOW SUBSWITCH	PASSENGER / RH REAR / LH REAR POWER WINDOW CONTROL SWITCH
POWER-CUT SWITCH	CUT-OFF SWITCH
REAR FOG LIGHT	REAR FOG LAMP
REAR WINDOW DEFROSTER	HEATED REAR WINDOW
REAR WINDOW DEFROSTER SWITCH	HEATED REAR WINDOW SWITCH
REAR WINDOW DEFROSTER SWITCH ILLUMINATION	HEATED REAR WINDOW SWITCH ILLUMINATION
REAR WIPER MOTOR	REAR WINDOW WIPER MOTOR
REFRIGERANT PRESSURE SWITCH	DUAL PRESSURE SWITCH
RELAY AND MAIN FUSE BLOCK	BATTERY JUNCTION BOX
RUNNING LIGHT	DAYTIME RUNNING LAMP
SAS UNIT	RESTRAINTS CONTROL MODULE
SEAT WARMER	SEAT CUSHION HEATER
SELECTOR ILLUMINATION	GEARSHIFT LEVER ILLUMINATION
SHIELD WIRE	SHIELD
SHORT BAR	SHORTING BAR
SHORT CORD	SUB-HARNESS
STARTER	STARTER MOTOR
STEERING ANGLE SENSOR	STEERING POSITION SENSOR
TAILLIGHT	TAIL LAMP
THEFT-DETERRENT CONTROL MODULE	ANTI-THEFT MODULE
THEFT-DETERRENT HORN	ANTI-THEFT HORN
THEFT-DETERRENT SYSTEM	ANTI-THEFT ACTIVE
TURN AND HAZARD WARNING LIGHT	TURN SIGNAL AND HAZARD LAMP
TURN LIGHT	DIRECTION INDICATOR LAMP
TURN SWITCH	DIRECTION INDICATOR SWITCH
VEHICLE SPEEDOMETER SENSOR	VEHICLE SPEED SENSOR
WASHER MOTOR	WASHER PUMP MOTOR, FRONT AND REAR
WASHER RELAY	WASHER PUMP RELAY, FRONT AND REAR
WIPER AND WASHER SWITCH	WIPER / WASHER SWITCH

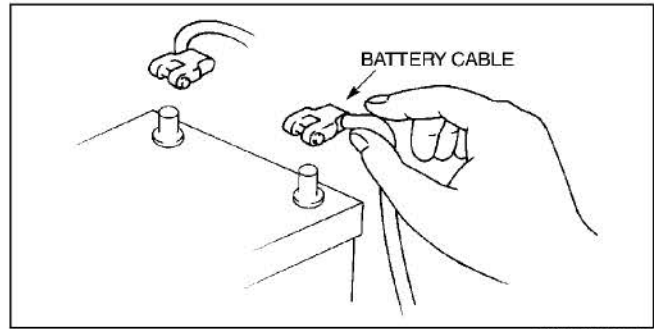
GI Electrical System General Procedures

ELECTRICAL PARTS

B6U00000006W03

Battery cable

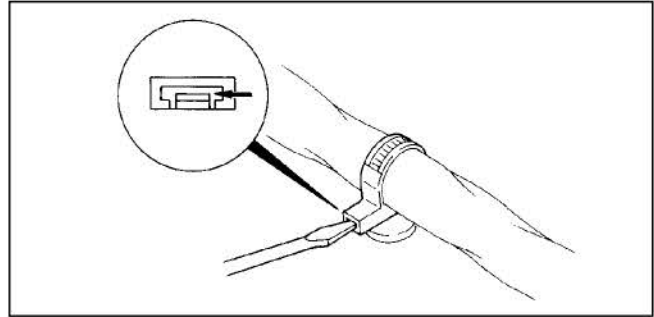
- Before disconnecting connectors or removing electrical parts, disconnect the negative battery cable.



WGIWXX0007E

Wiring Harness

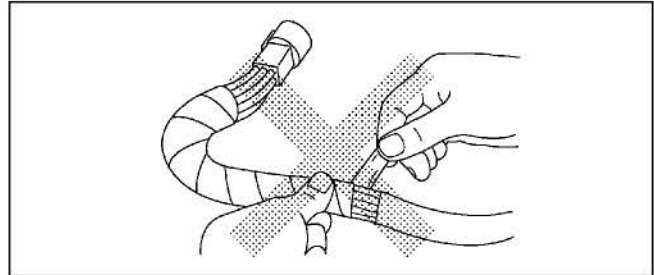
- To remove the wiring harness from the clip in the engine room, pry up the hook of the clip using a flathead screwdriver.



WGIWXX0039E

Caution

- Do not remove the Harness protective tape. Otherwise, the wires could rub against the body, which could result in water penetration and electrical shorting.



WGIWXX0040E

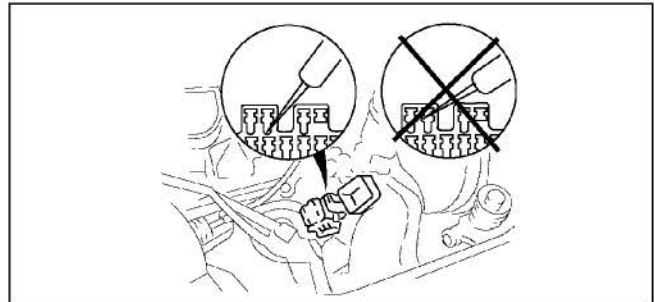
CONNECTORS

Data link connector

- Insert the probe into the terminal when connecting a jumper wire to the data link connector.

Caution

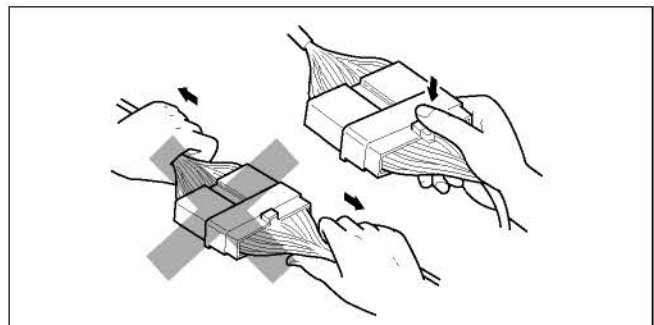
- Inserting a jumper wire probe into the data link connector terminal may damage the terminal.



X3U000WAY

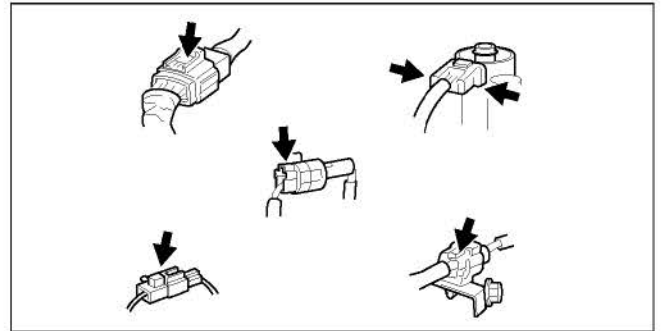
Disconnecting connectors

- When disconnecting connector, grasp the connectors, not the wires.



WGIWXX0041E

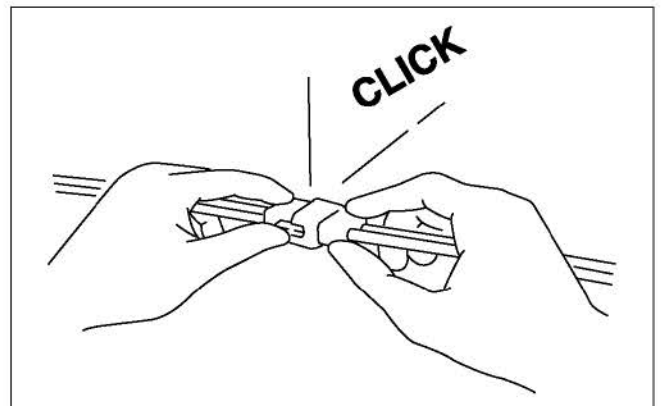
- Connectors can be disconnected by pressing or pulling the lock lever as shown.



WGIWXX0042E

Locking connector

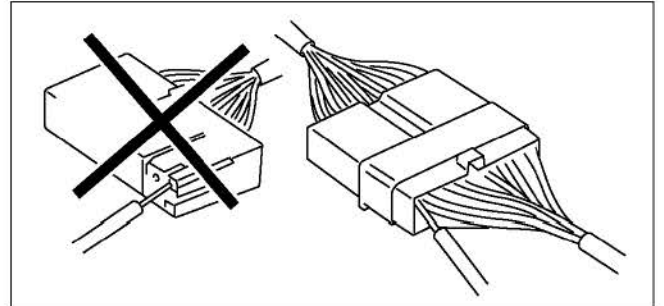
- When locking connectors, listen for a click indicating they are securely locked.



X3U000WB1

Inspection

- When a tester is used to inspect for continuity or measuring voltage, insert the tester probe from the wiring harness side.

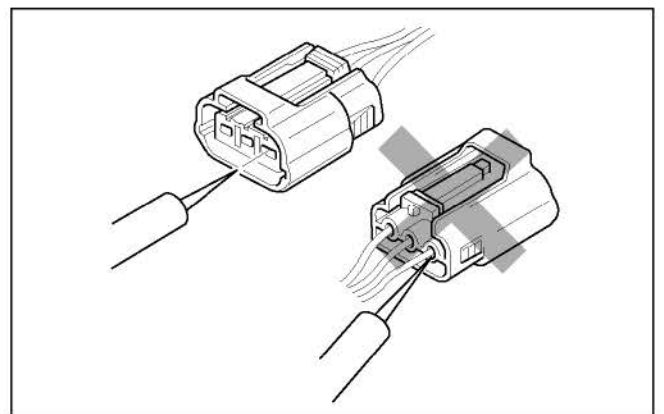


WGIWXX0044E

- Inspect the terminals of waterproof connectors from the connector side since they cannot be accessed from the wiring harness side.

Caution

- To prevent damage to the terminal, wrap a thin wire around the tester probe before inserting into terminal.

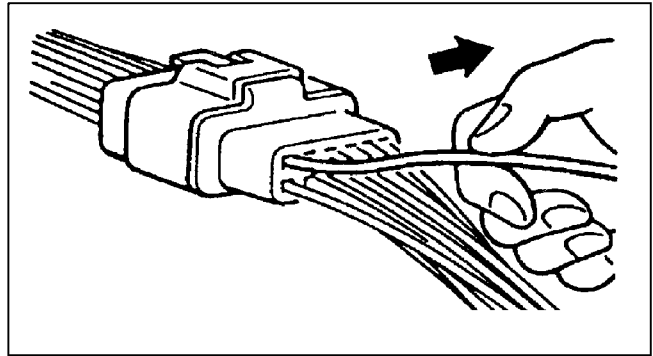


WGIWXX0045E

Terminals

Inspection

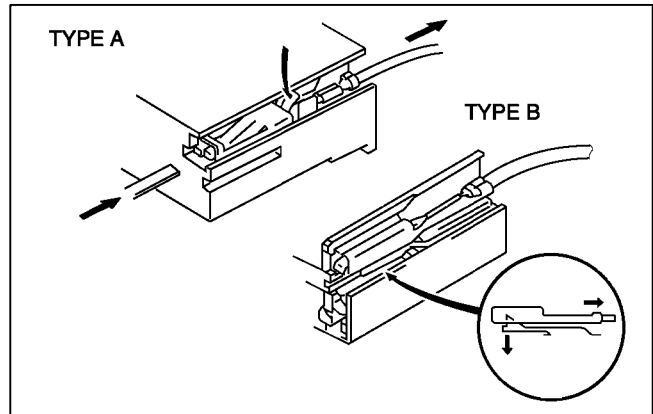
- Pull lightly on individual wires to verify that they are secured in the terminal.



X3U000WB4

Replacement

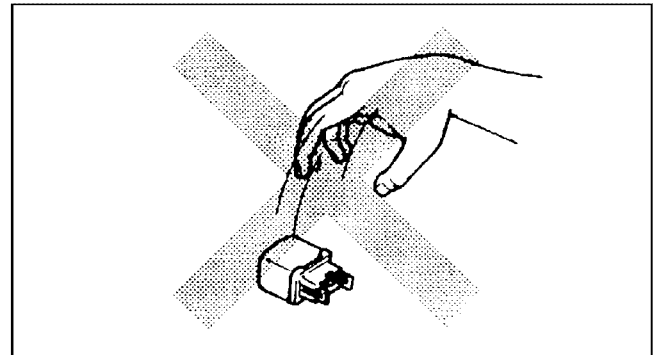
- Use the appropriate tools to remove a terminal as shown. When installing a terminal, be sure to insert it until it locks securely.
- Insert a thin piece of metal from the terminal side of the connector and with the terminal locking tab pressed down, pull the terminal out from the connector.



X3U000WB5

Sensors, Switches, and Relays

- Handle sensors, switches, and relays carefully. Do not drop them or strike them against other objects.

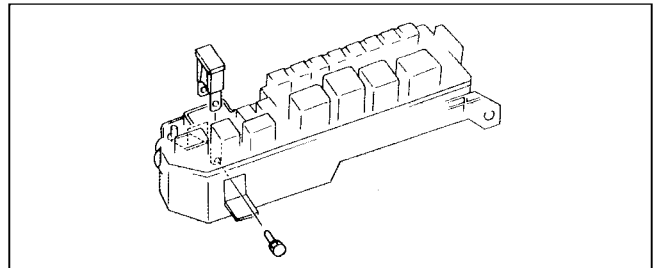


X3U000WB6

Fuse

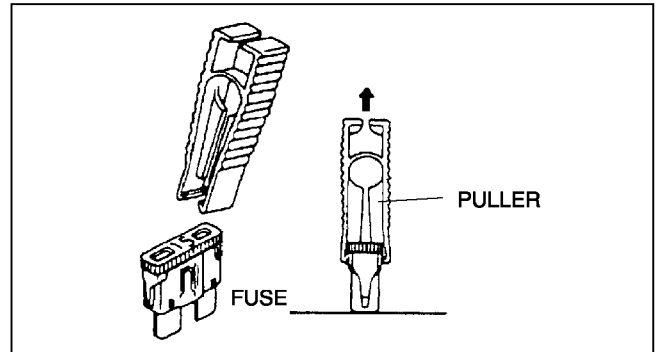
Replacement

- When replacing a fuse, be sure to replace it with one of the same capacity. If a fuse fails again, the circuit probably has a short and the wiring should be inspected.
- Be sure the negative battery terminal is disconnected before replacing a main fuse.



YMU000WA1

- When replacing a pullout fuse, use the fuse puller.



YMU000WAK

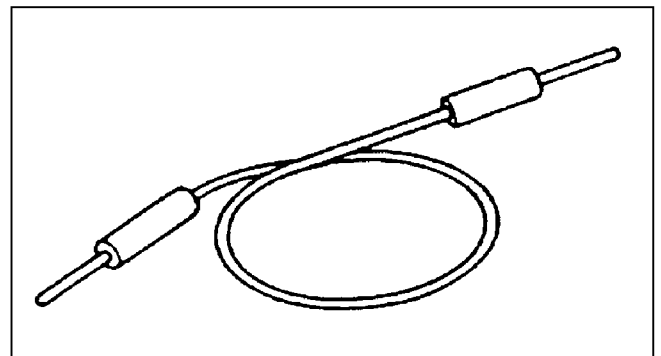
ELECTRICAL TROUBLESHOOTING TOOLS

Jumper wire

- A jumper wire is used to create a temporary circuit. Connect the jumper wire between the terminals of a circuit to bypass a switch.

Caution

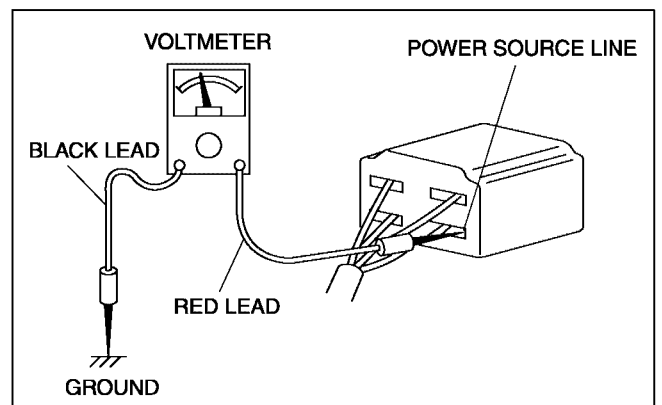
- **Do not connect a jumper wire from the power source line to a body ground. This may cause burning or other damage to wiring harnesses or electronic components.**



X3U000WBB

Voltmeter

- The DC voltmeter is used to measure circuit voltage. A voltmeter with a range of **15 V or more** is used by connecting the positive (+) probe (red lead wire) to the point where voltage will be measured and the negative (-) probe (black lead wire) to a body ground.



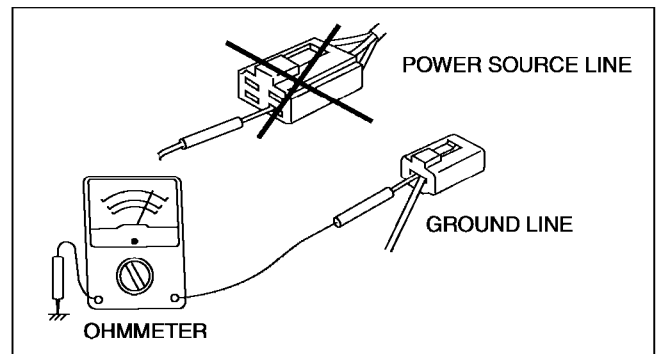
X3U000WBC

Ohmmeter

- The ohmmeter is used to measure the resistance between two points in a circuit and to inspect for continuity and short circuits.

Caution

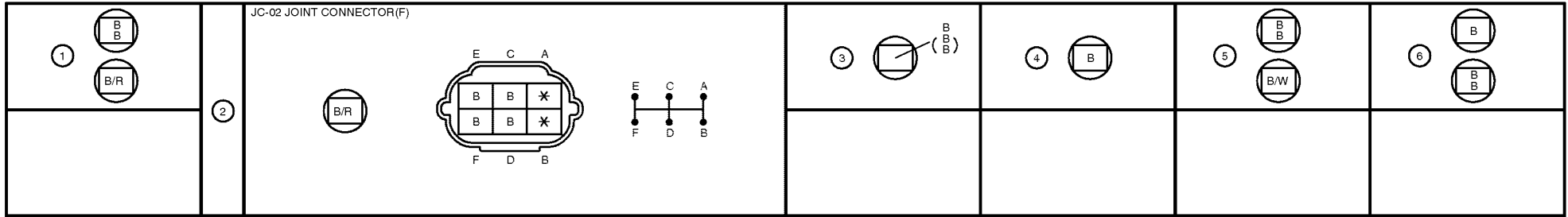
- **Do not connect the ohmmeter to any circuit where voltage is applied. This will damage the ohmmeter.**



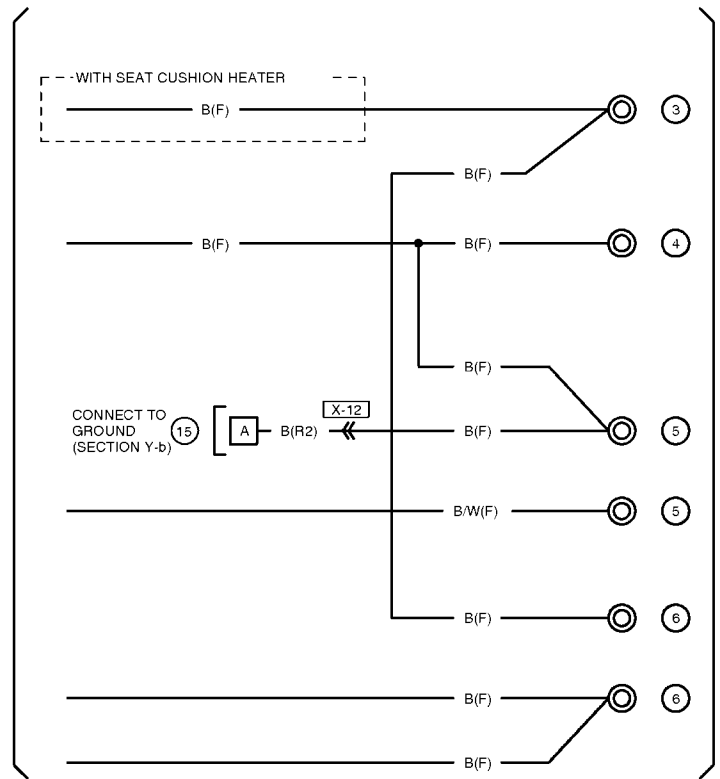
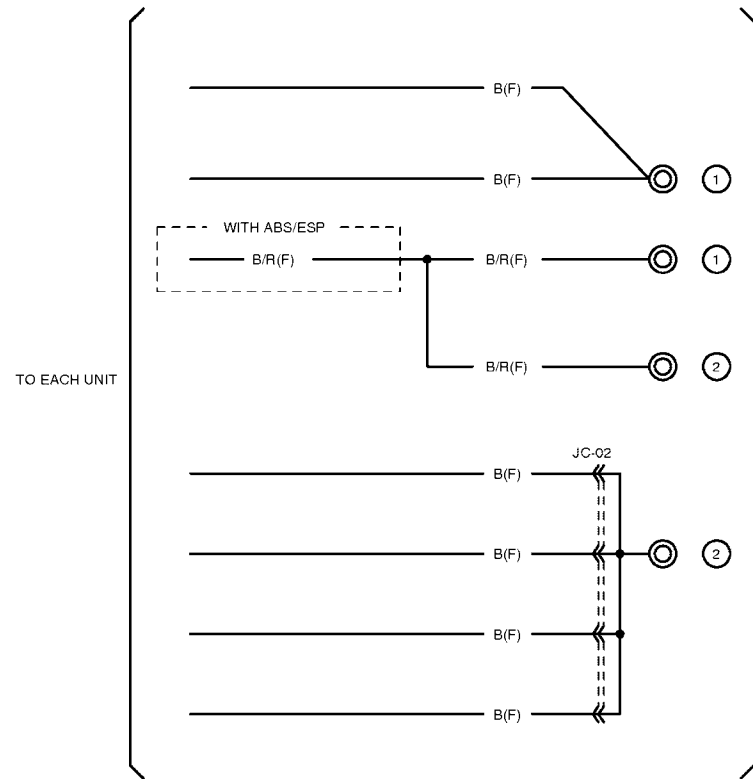
YMU000WAL

GROUND POINT

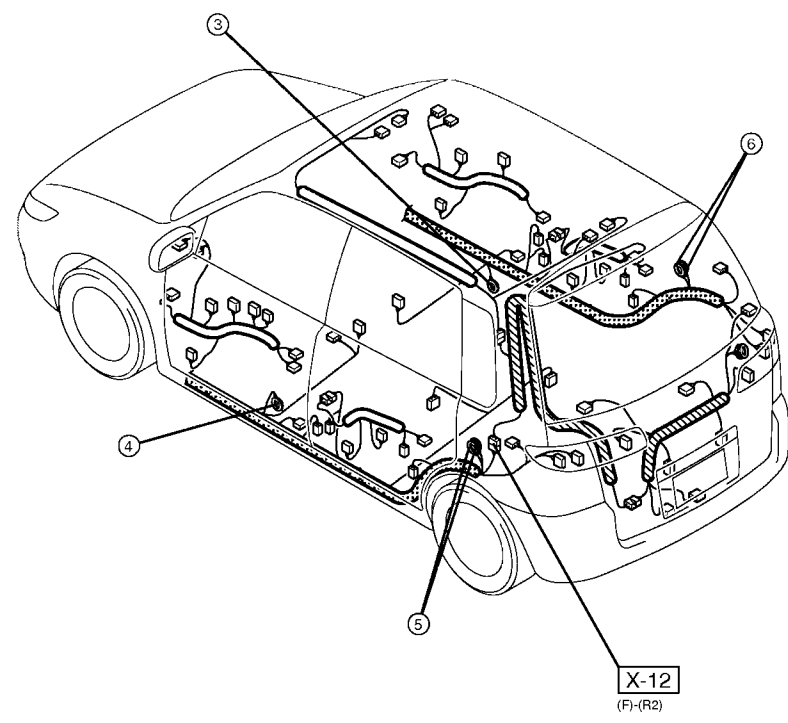
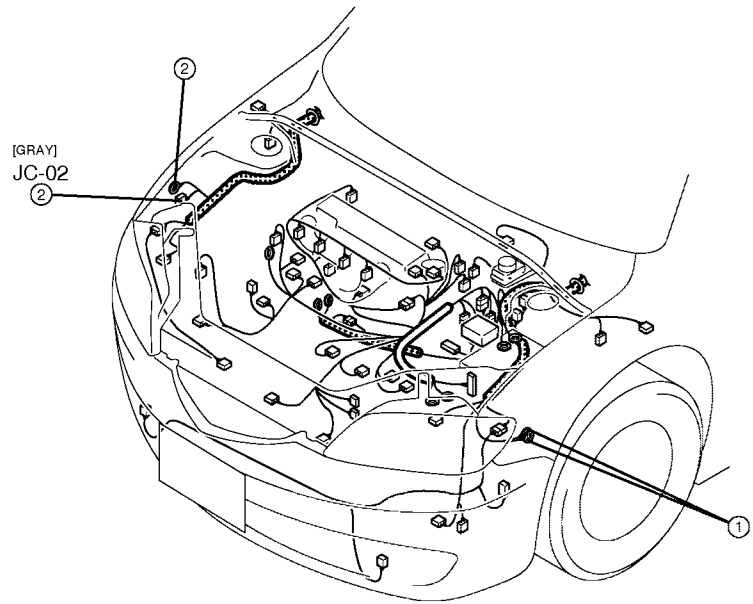
Y-a



()...WITH SEAT CUSHION HEATER



HARNES SYMBOL:  (F)  (E)  (R)

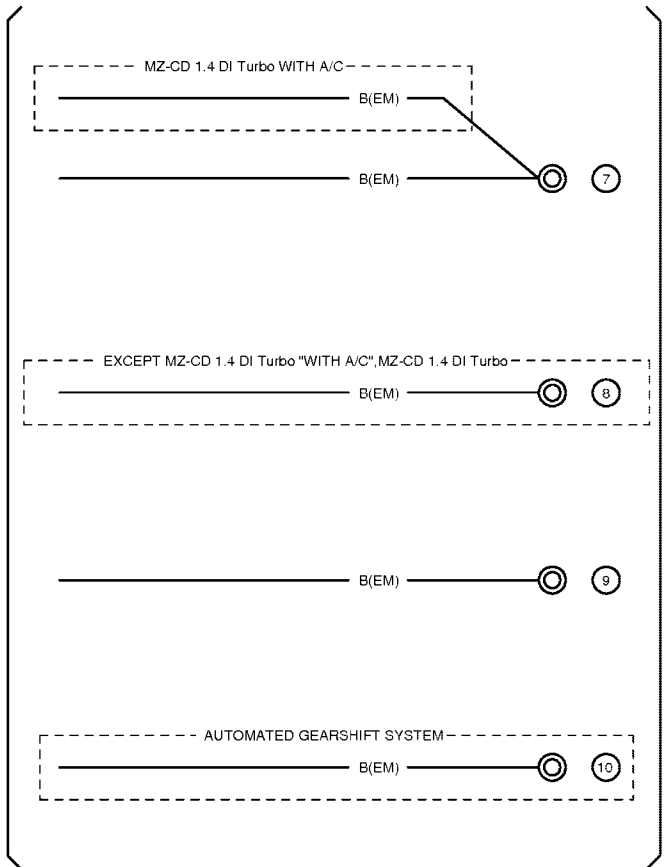


GROUND POINT

Y-b

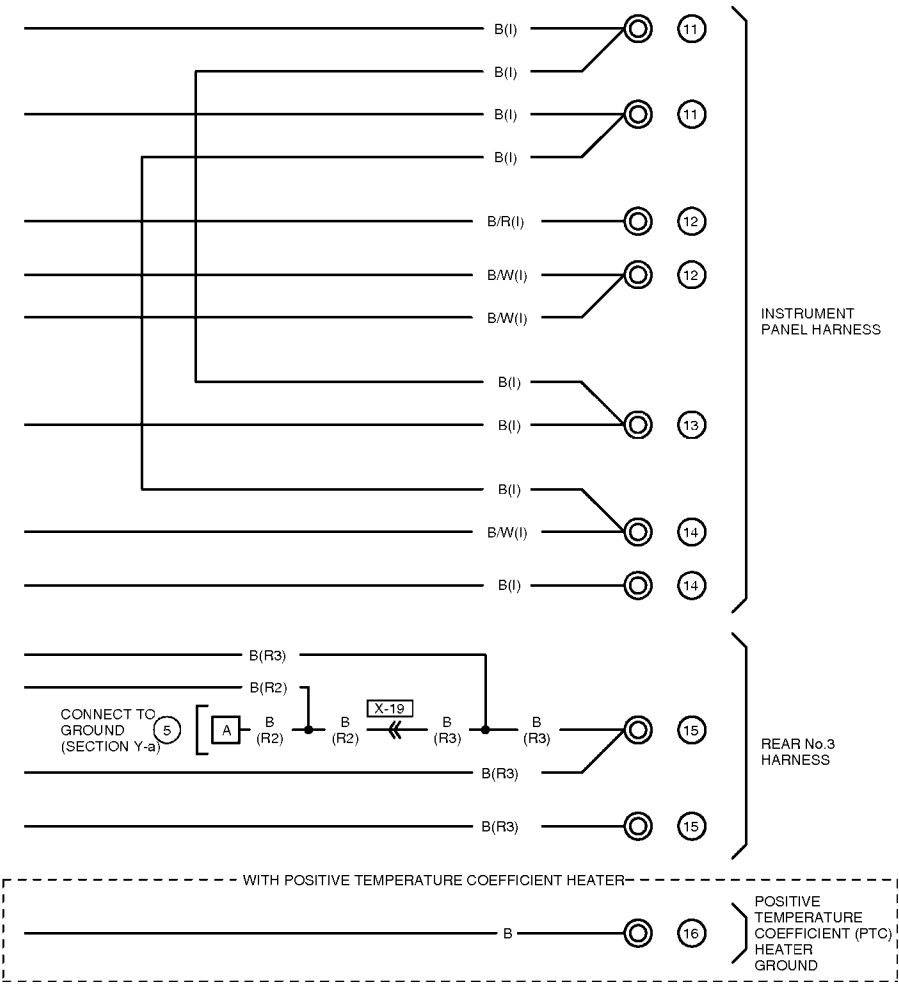
7	8	9	10	11	12	13
14	15	16				

...MZ-CD 1.4 DI Turbo WITH A/C



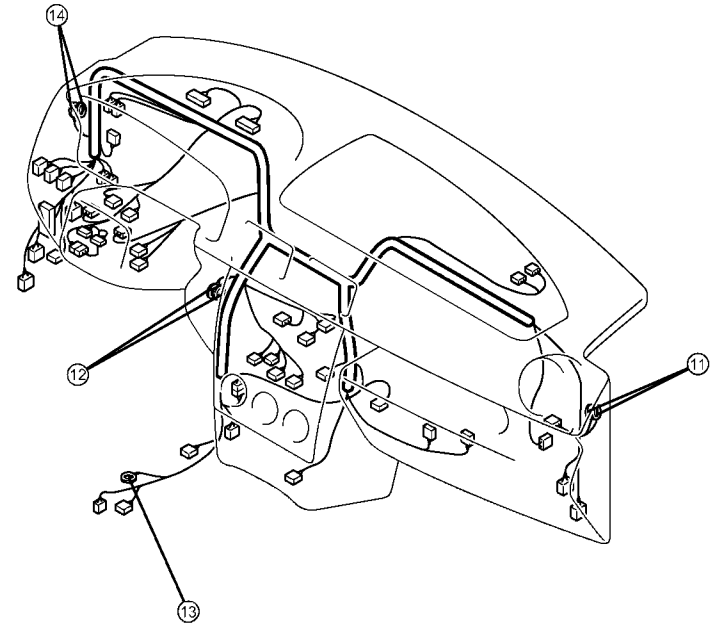
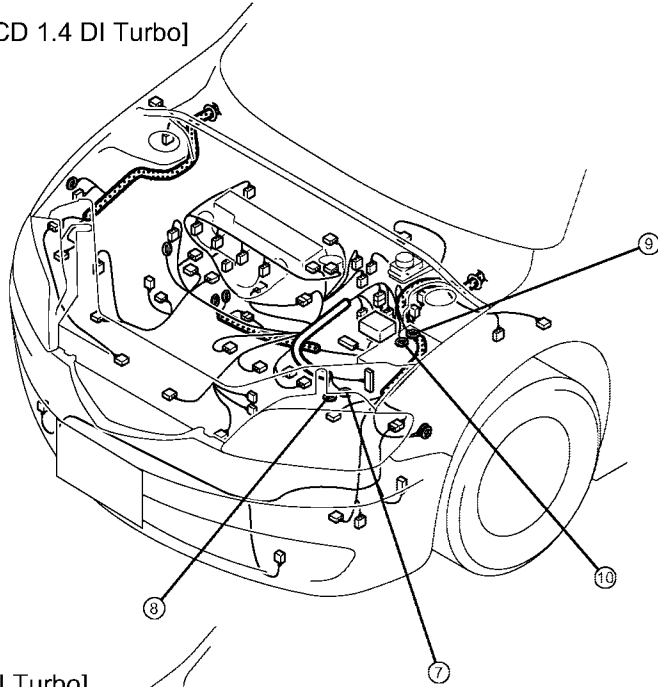
EMISSION HARNESS

TO EACH UNIT

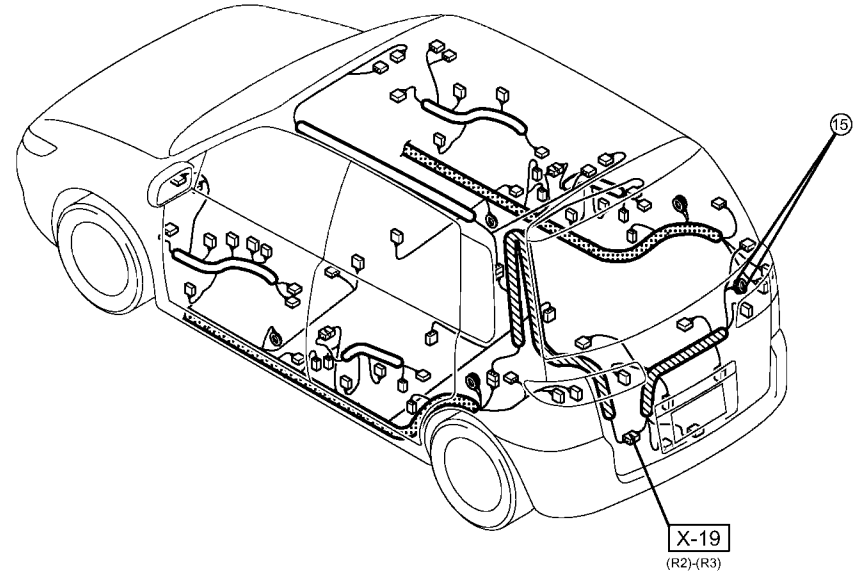
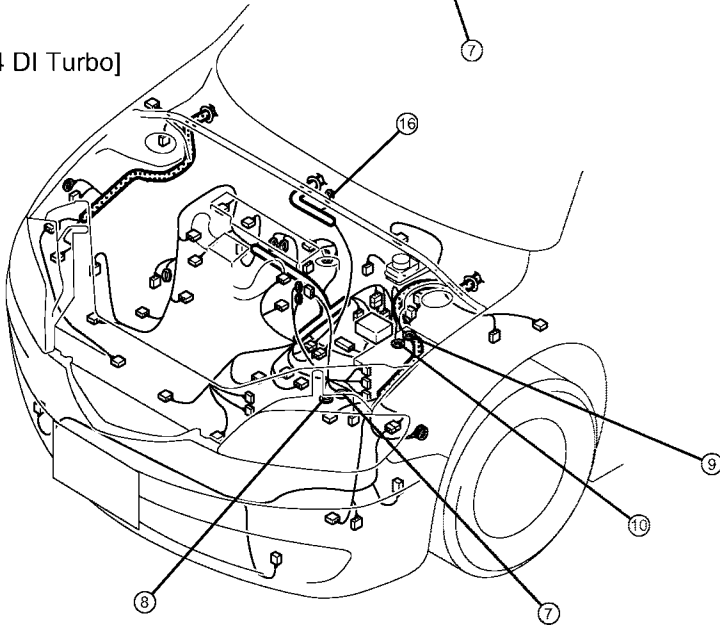


HARNESS SYMBOL:  (F)  (E)  (R)

[EXCEPT MZ-CD 1.4 DI Turbo]

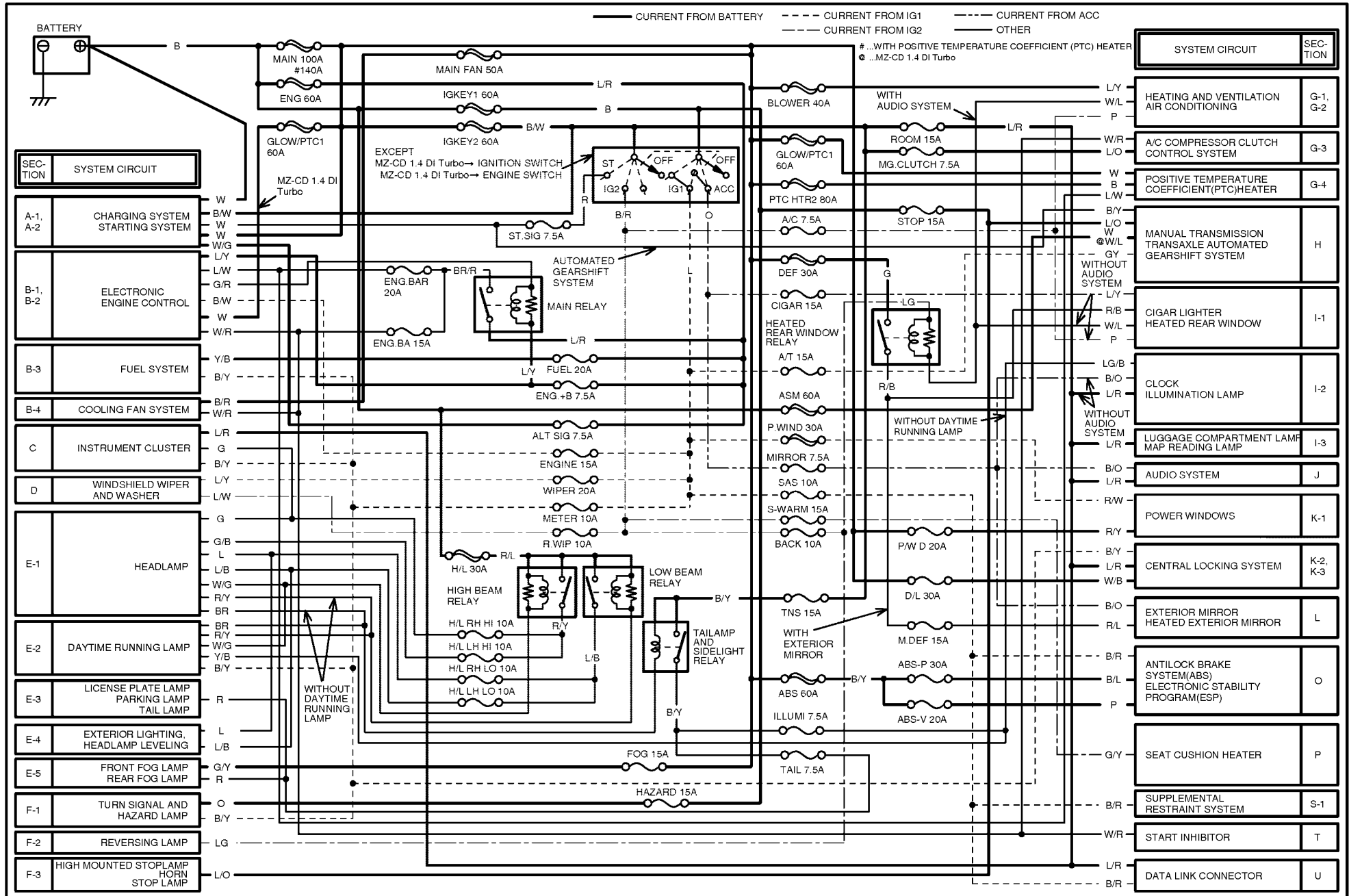


[MZ-CD 1.4 DI Turbo]



ELECTRICAL WIRING SCHEMATIC

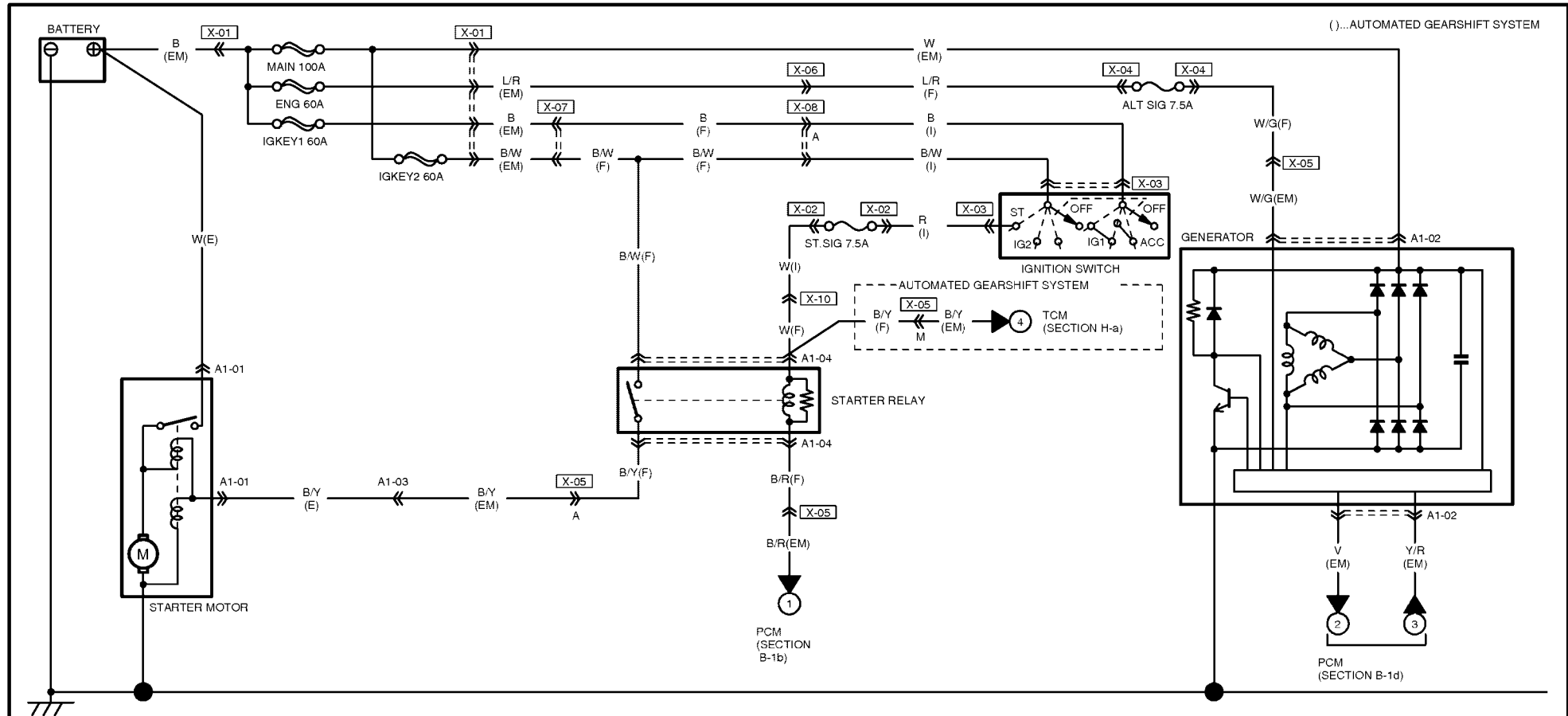
W



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CHARGING SYSTEM (EXCEPT MZ-CD 1.4 DI Turbo) / STARTING SYSTEM (EXCEPT MZ-CD 1.4 DI Turbo)

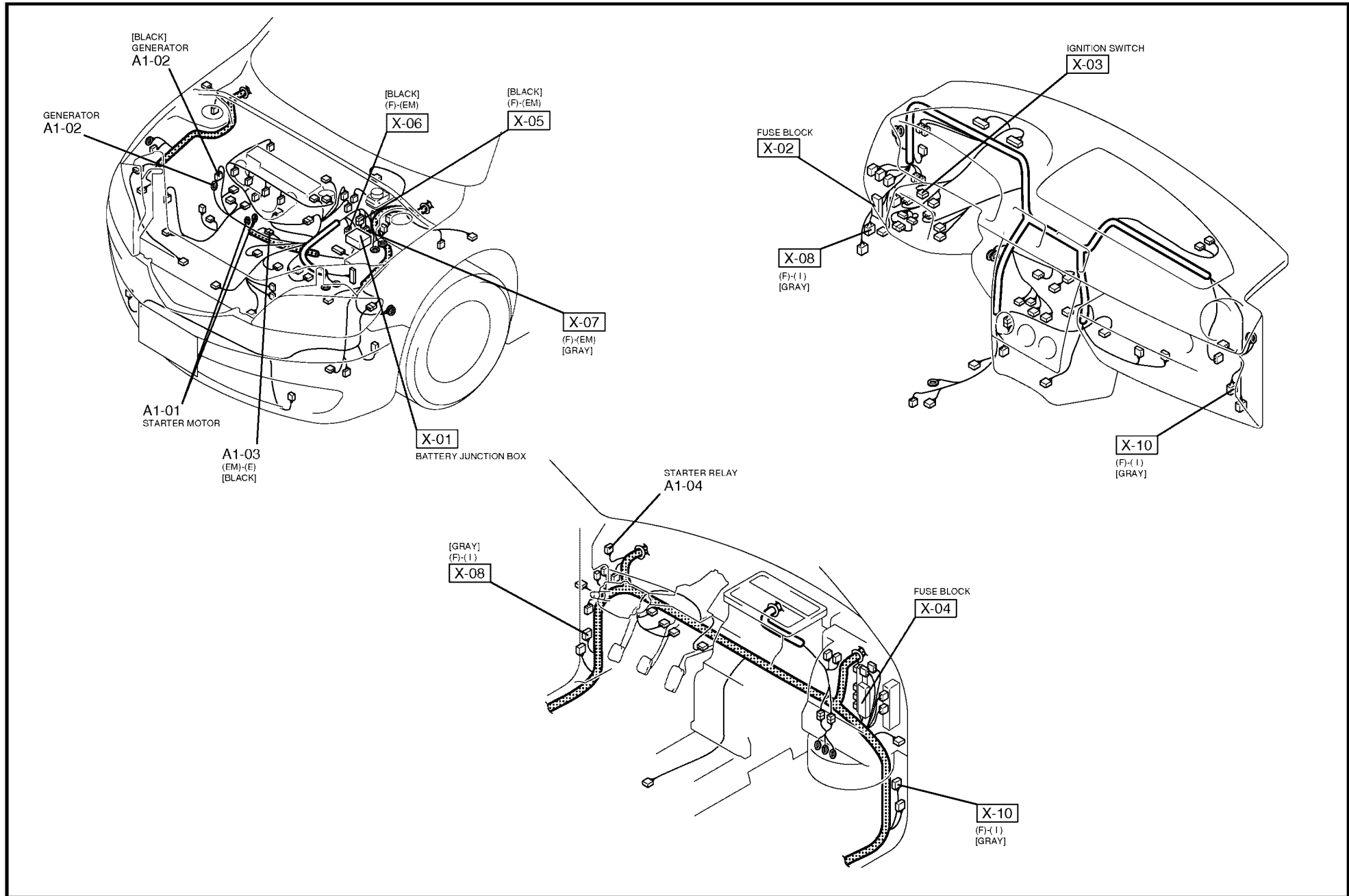
A-1



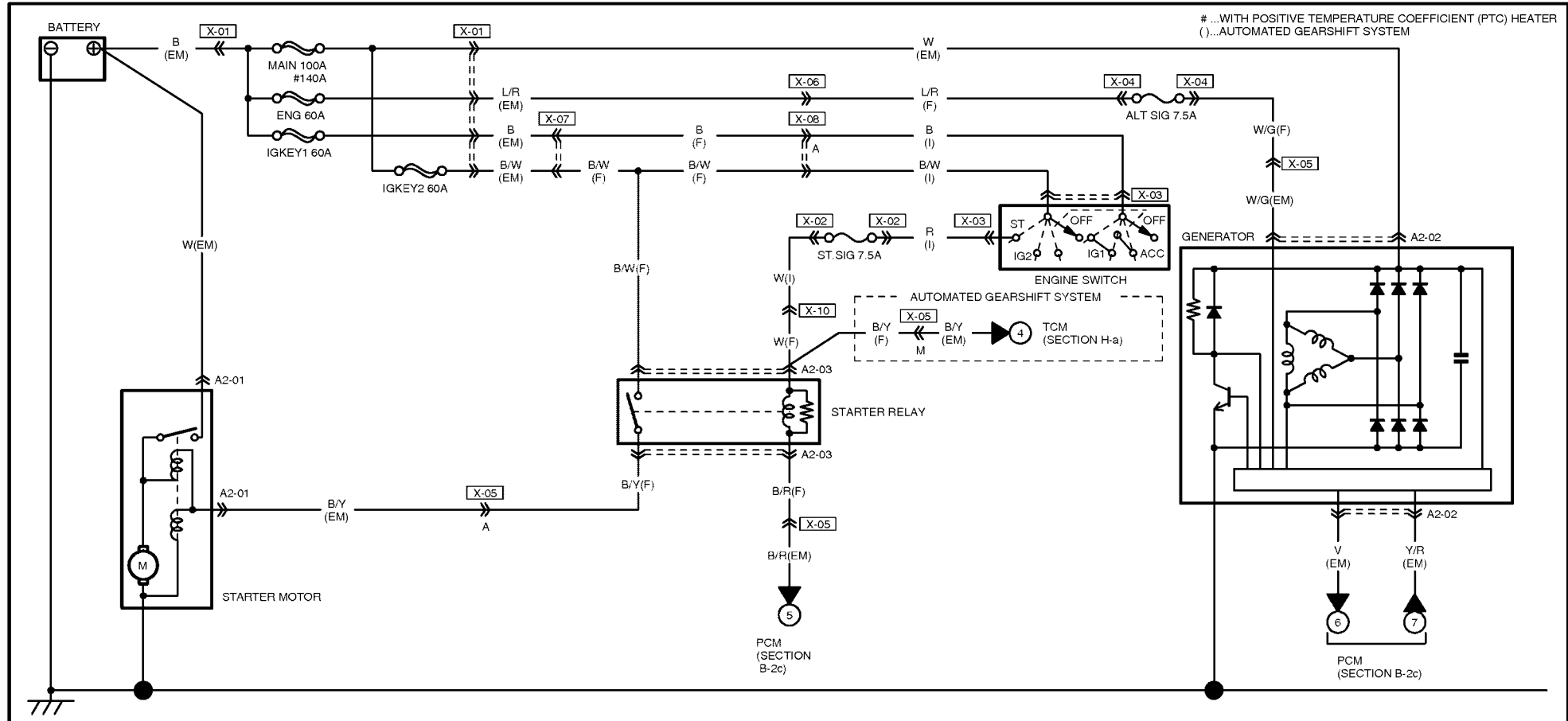
26

A1-01 STARTER MOTOR(E)	A1-02 GENERATOR(EM)	A1-03 EMISSION(EM)-ENGINE(E)		A1-04 STARTER RELAY(F)

HARNES SYMBOL:  (F)  (E)  (R)



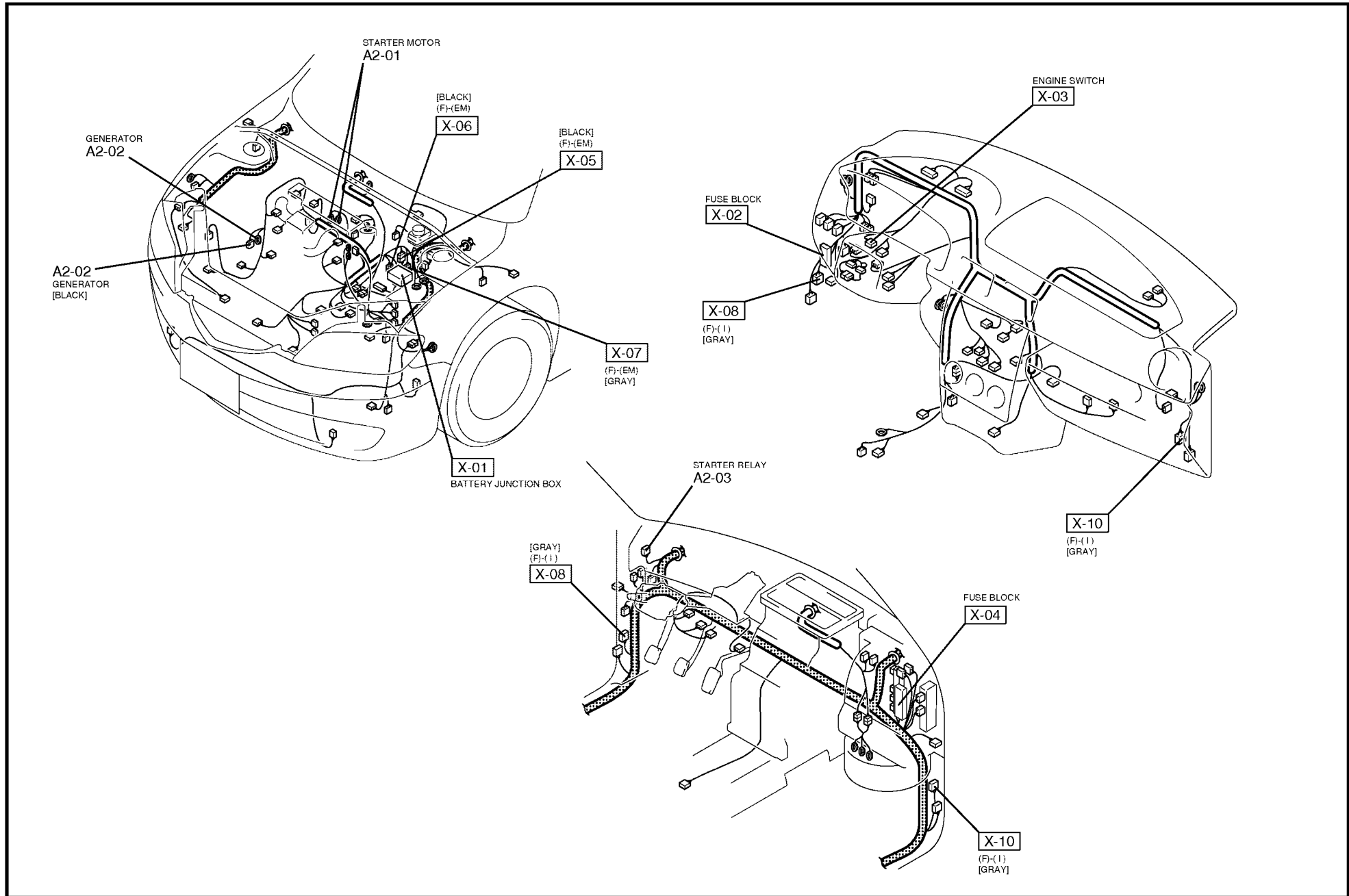
CHARGING SYSTEM (MZ-CD 1.4 DI Turbo) / STARTING SYSTEM (MZ-CD 1.4 DI Turbo)

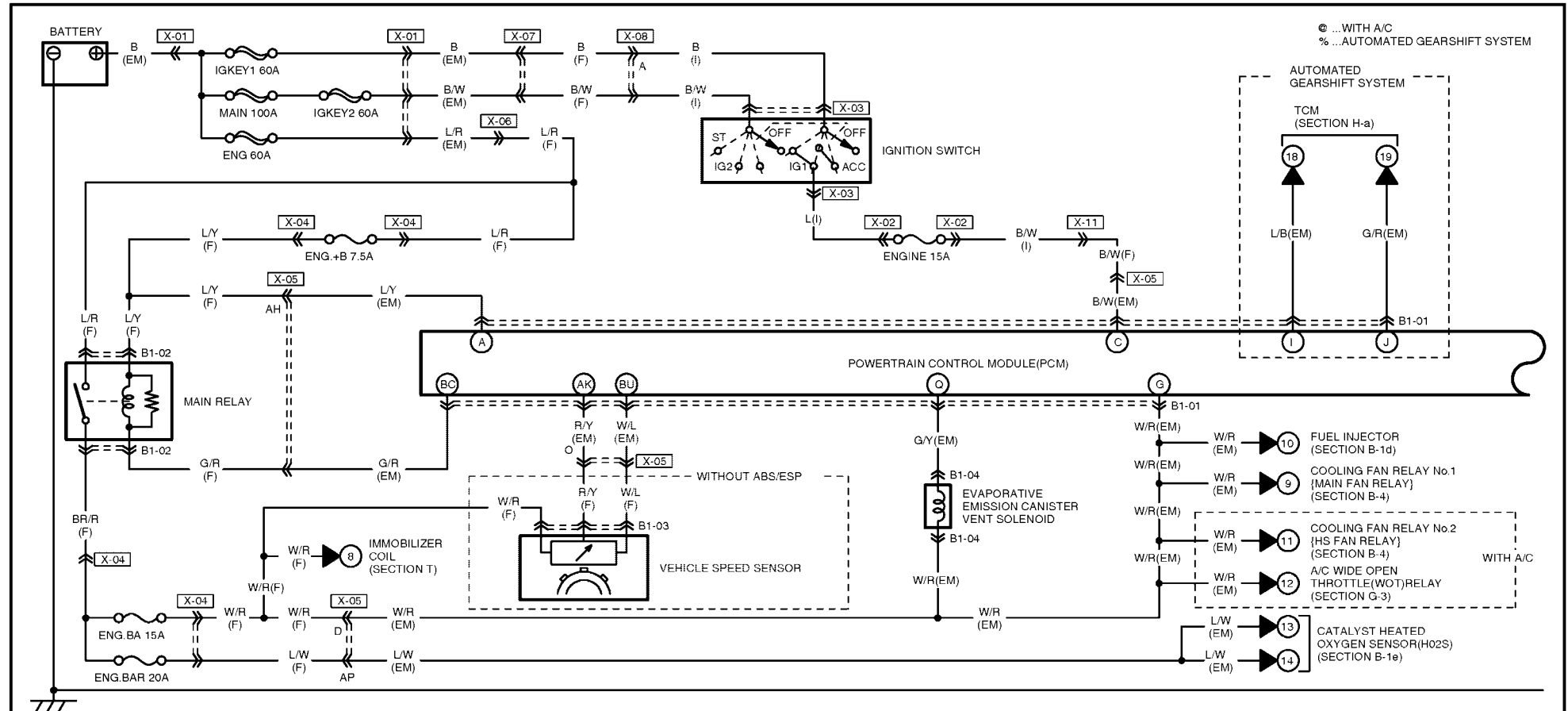


28

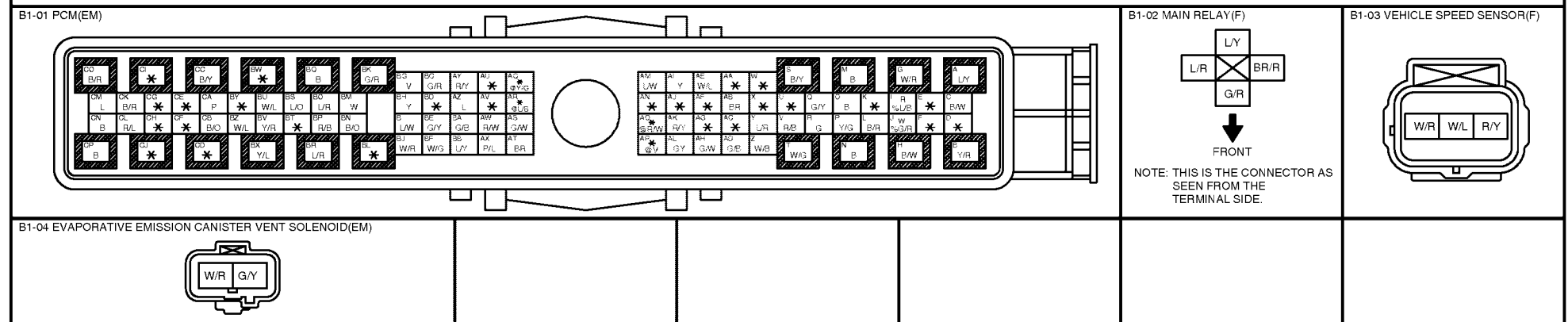
<p>A2-01 STARTER MOTOR(EM)</p>	<p>A2-02 GENERATOR(EM)</p>	<p>A2-03 STARTER RELAY(F)</p>		

HARNESS SYMBOL:  (F)  (E)  (R)

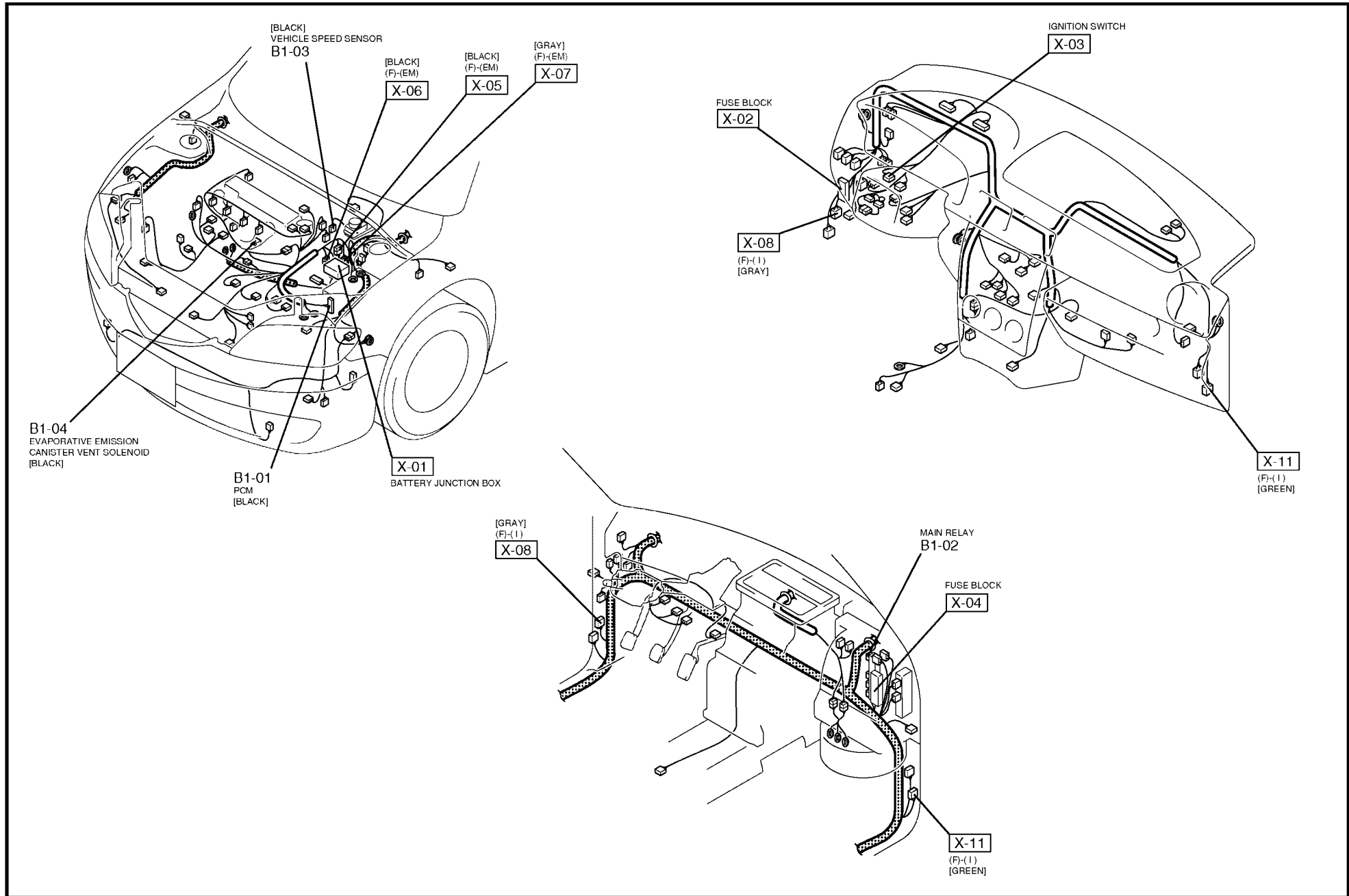




30



HARNES SYMBOL:  (F)  (E)  (R)

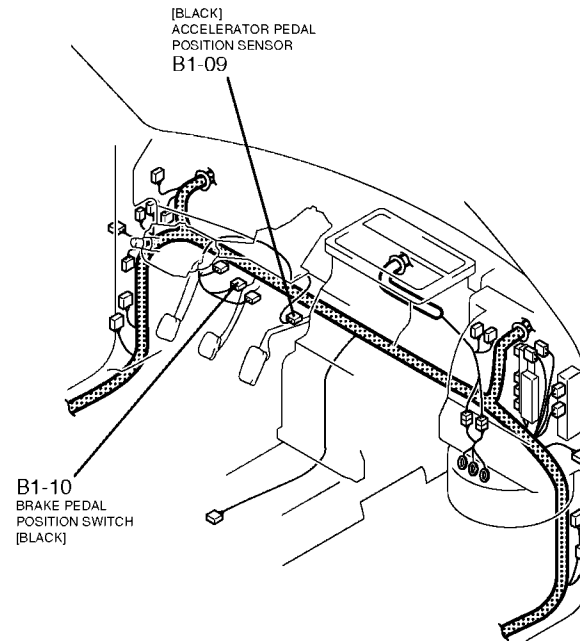
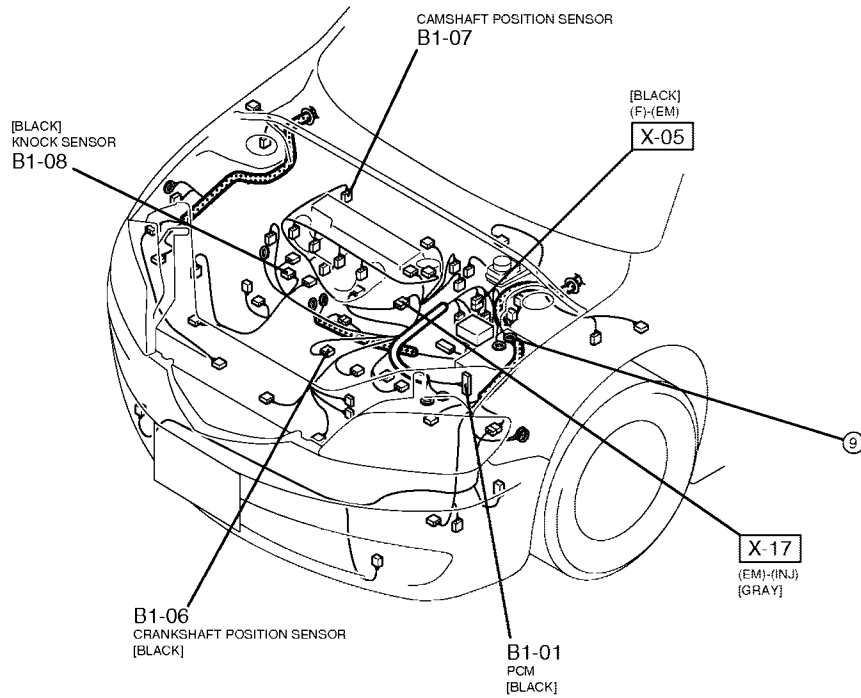


31

B-1a

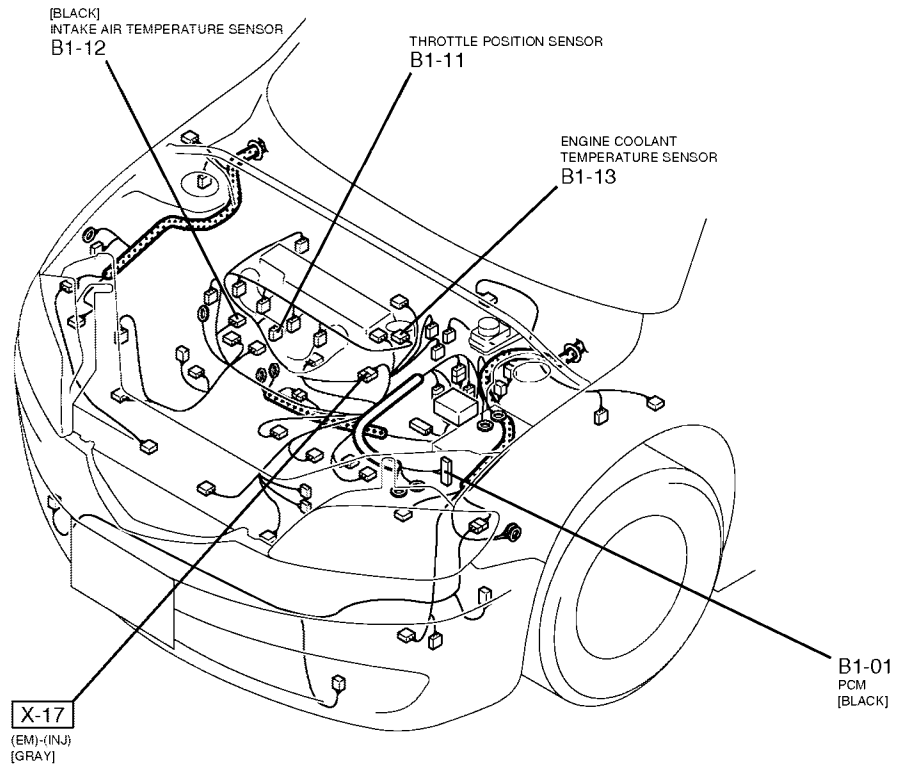
HARNES SYMBOL:  (F)  (E)  (R)

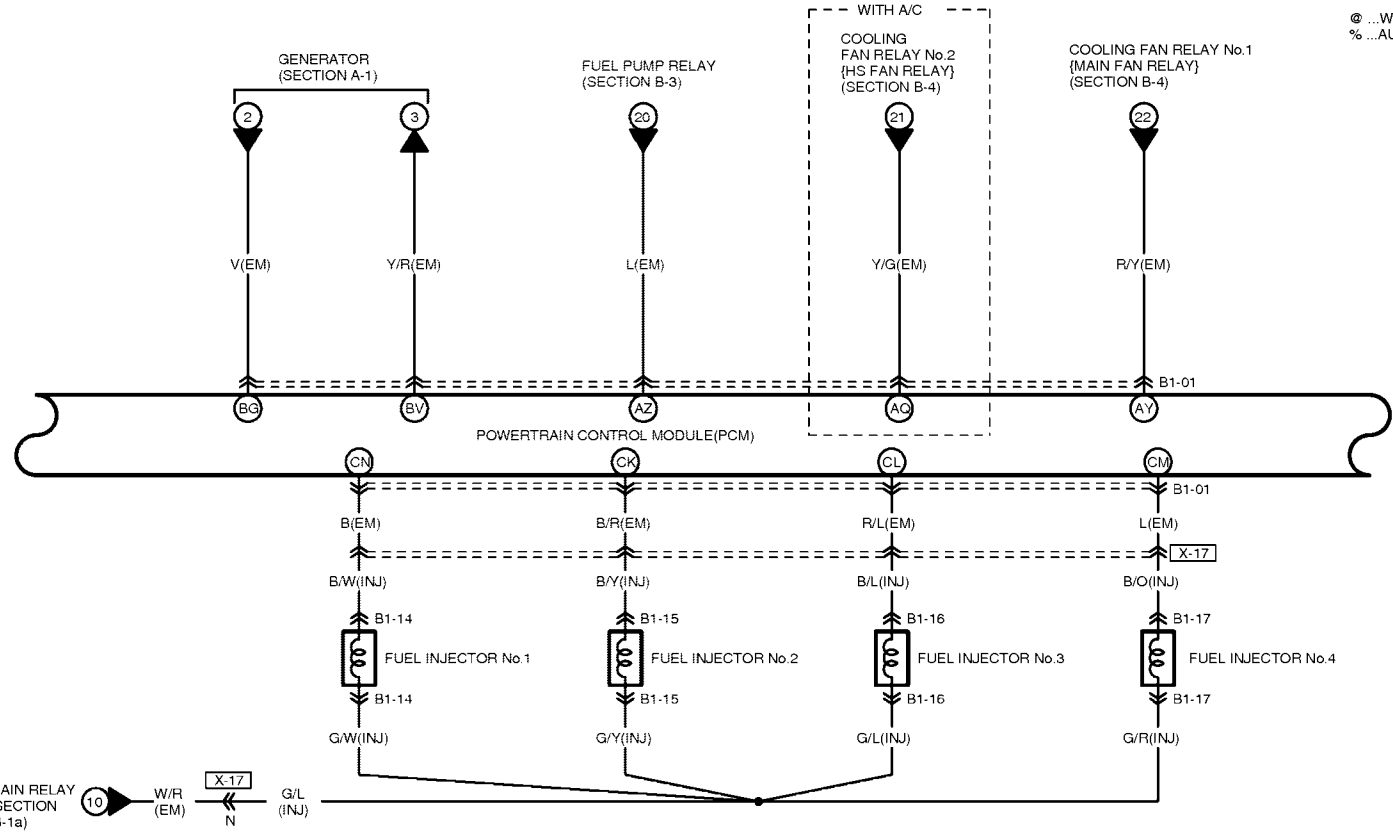
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HARNES SYMBOL:  (F)  (E)  (R)

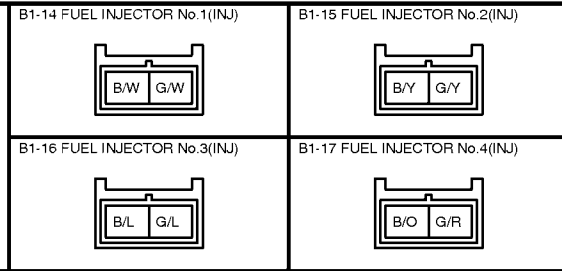
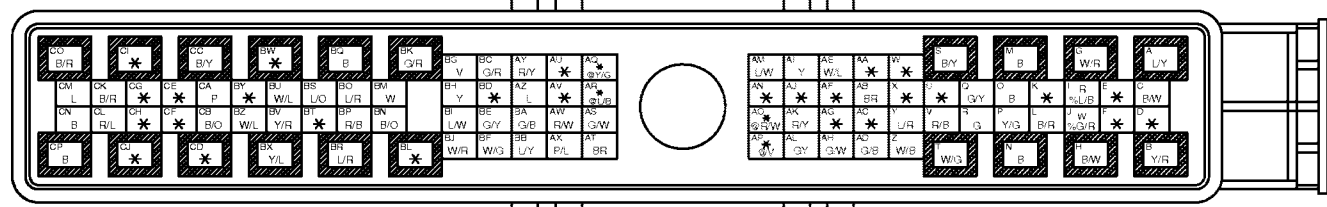
35



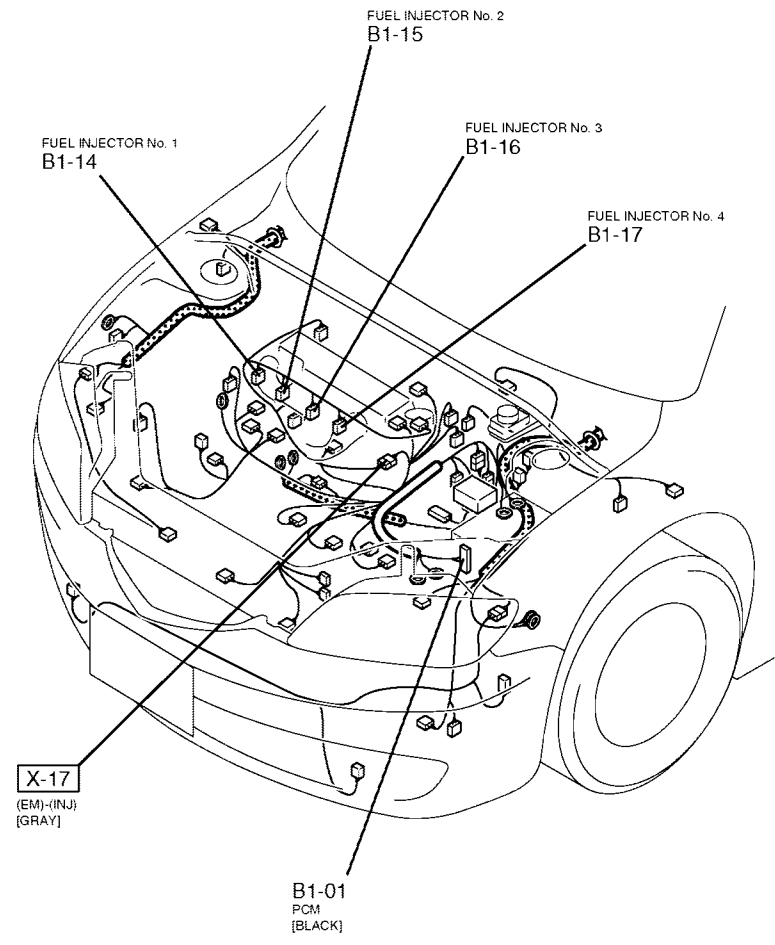


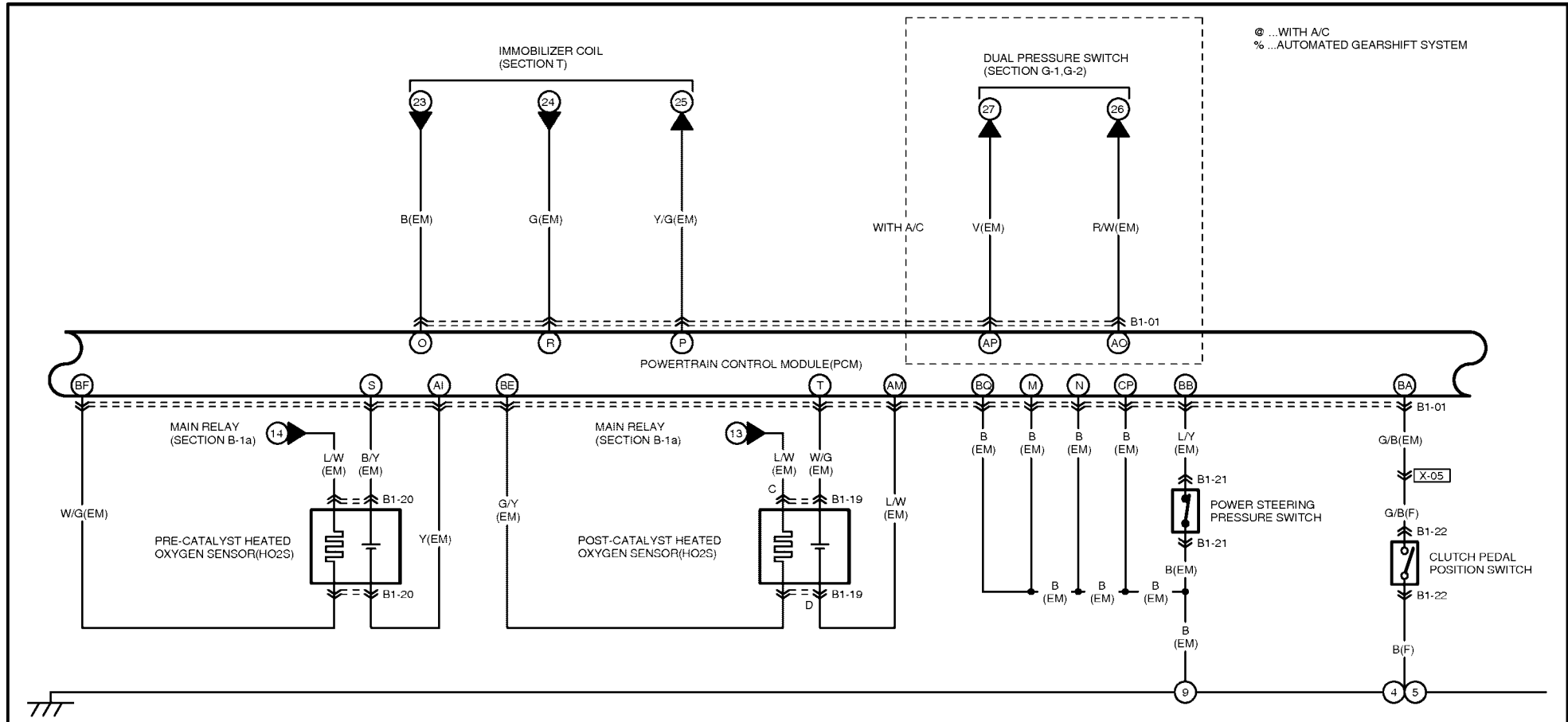
36

B1-01 PCM(EM)



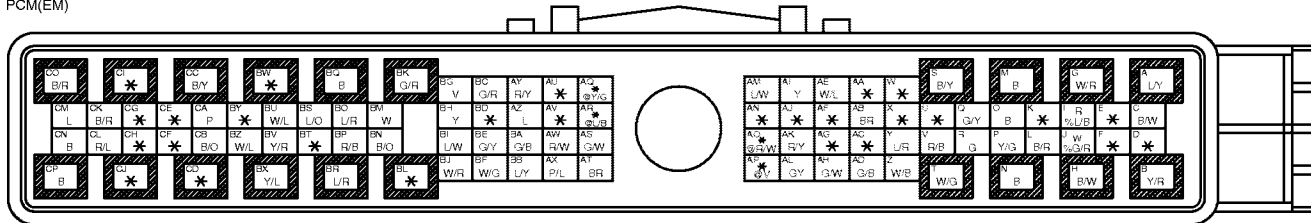
HARNES SYMBOL:  (F)  (E)  (R)



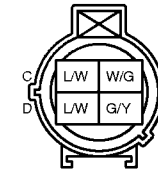


⊙ ...WITH A/C
 % ...AUTOMATED GEARSHIFT SYSTEM

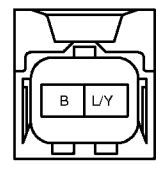
B1-01 PCM(EM)



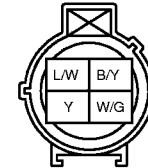
B1-19 POST-CATALYST HEATED OXYGEN SENSOR(HO2S)(EM)



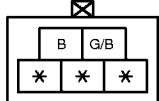
B1-21 POWER STEERING PRESSURE SWITCH(EM)



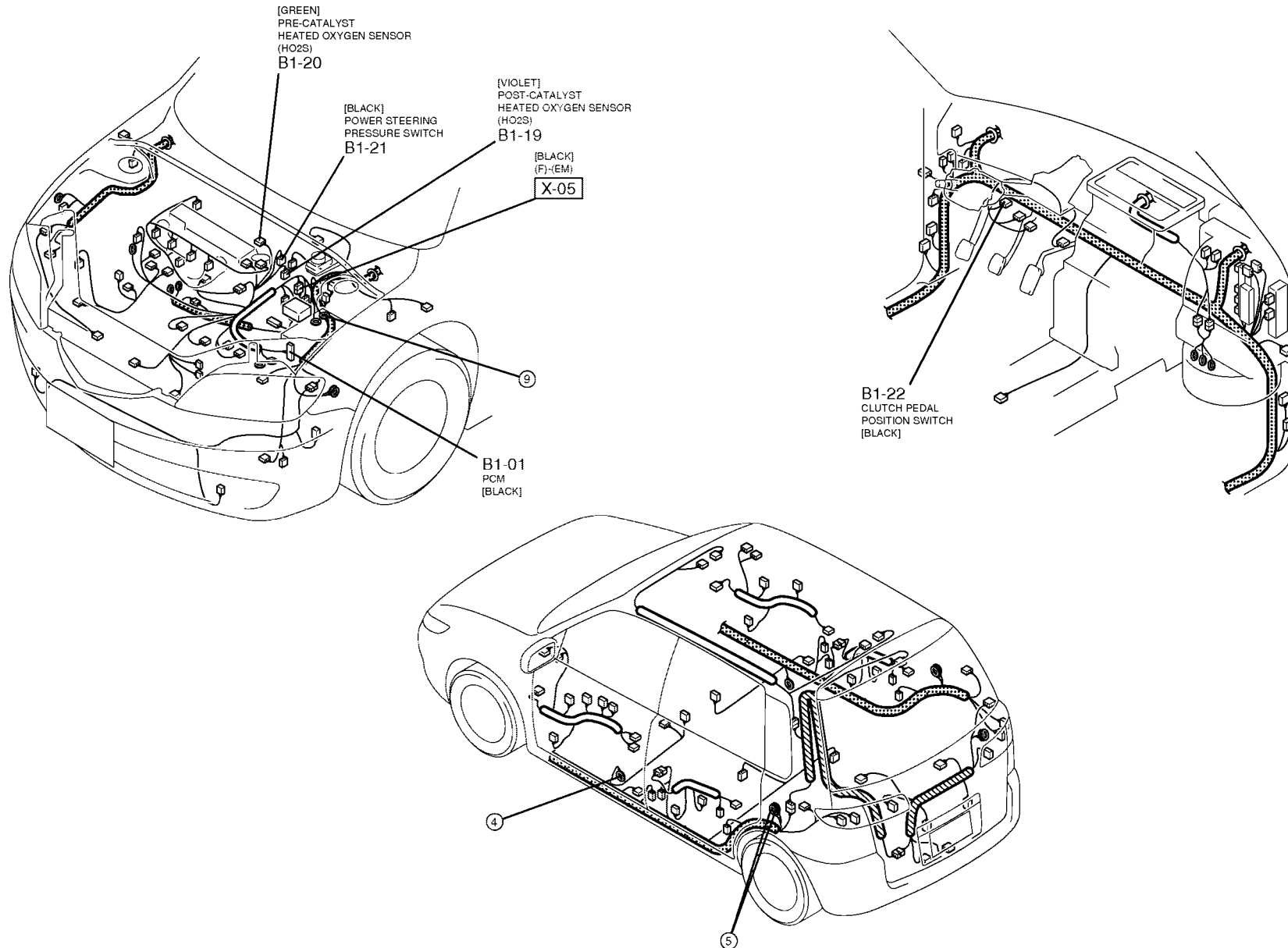
B1-20 PRE-CATALYST HEATED OXYGEN SENSOR(HO2S)(EM)



B1-22 CLUTCH PEDAL POSITION SWITCH(F)

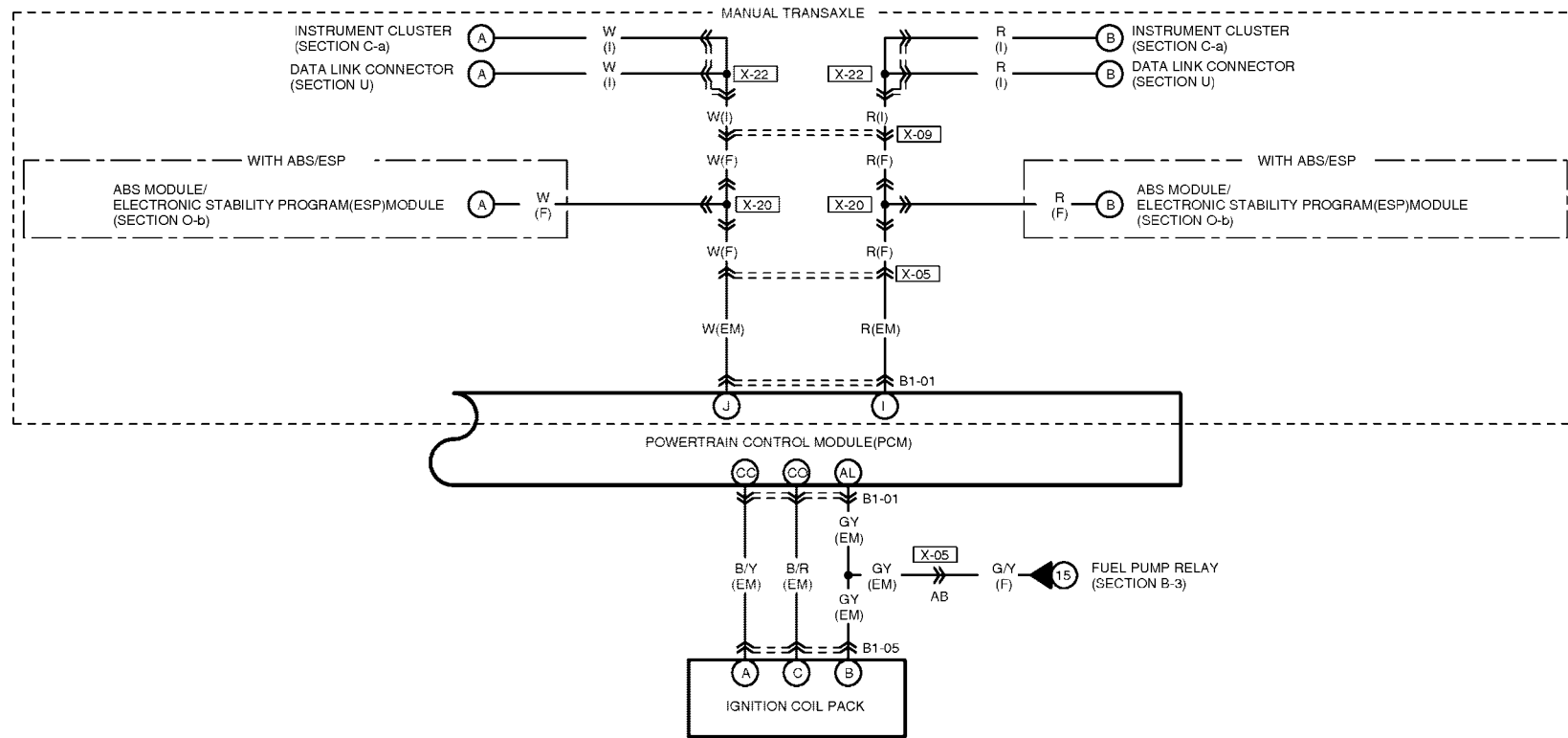


HARNES SYMBOL:  (F)  (E)  (R)



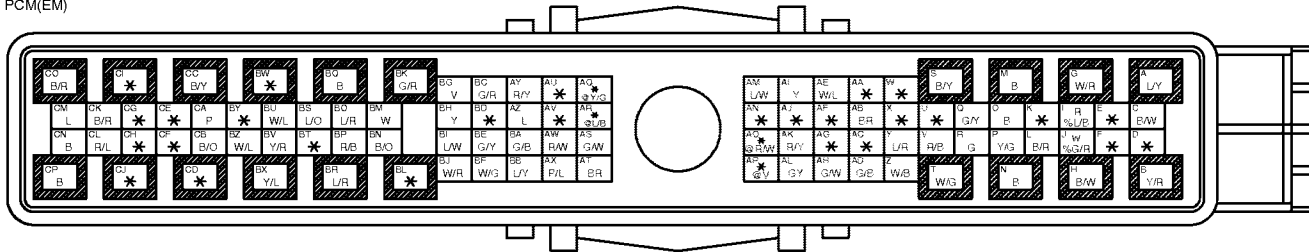
39

@ ...WITH A/C
% ...AUTOMATED GEARSHIFT SYSTEM

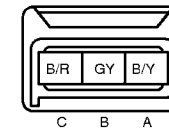


40

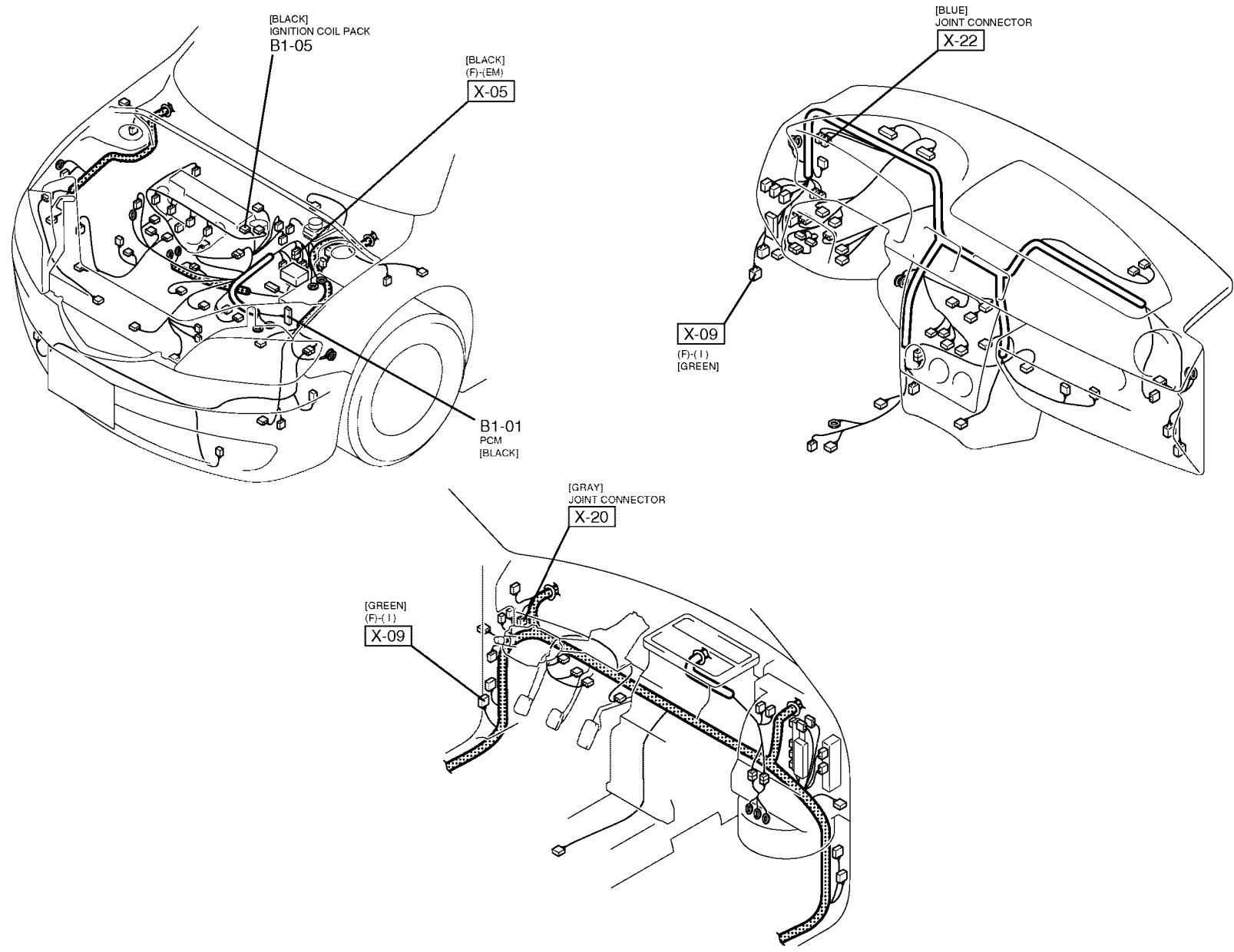
B1-01 PCM(EM)



B1-05 IGNITION COIL PACK(EM)

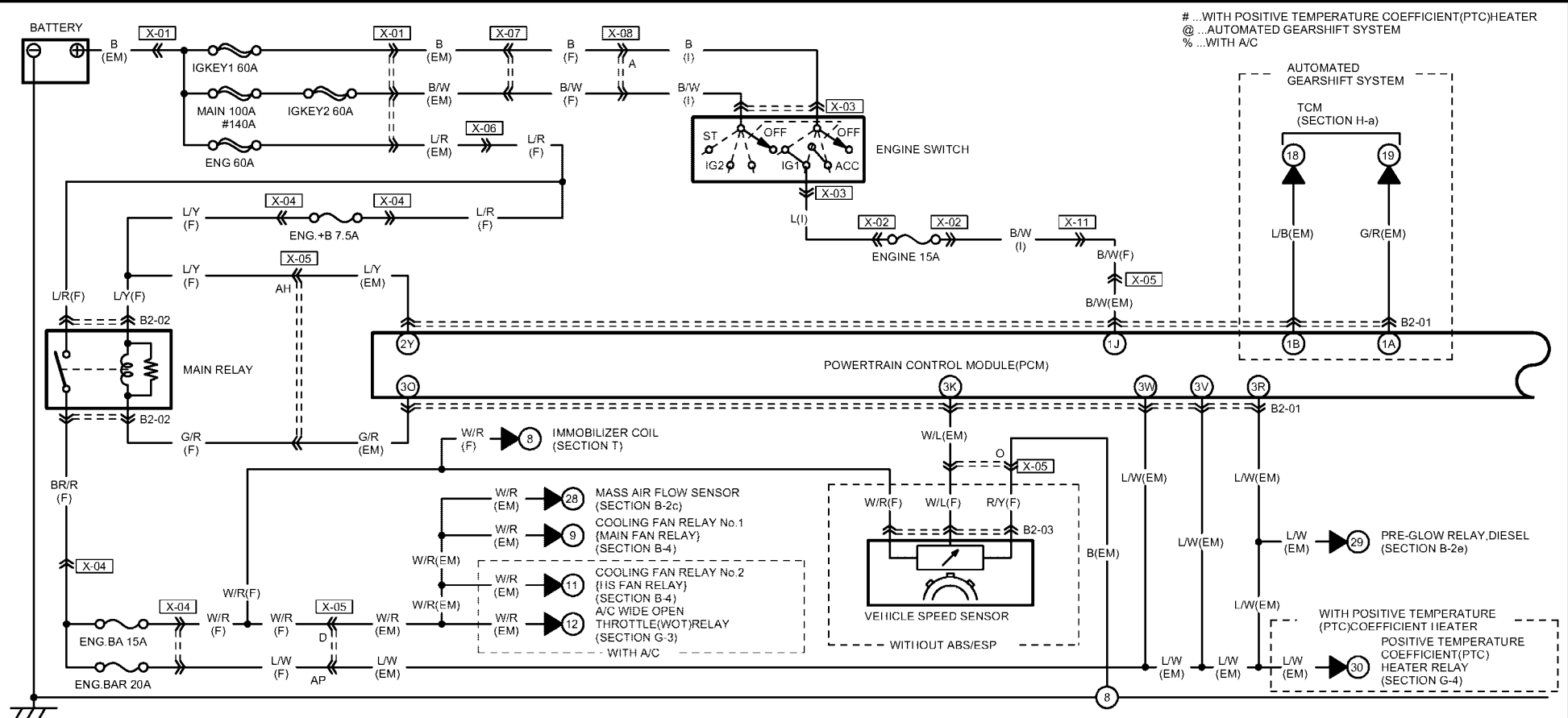


HARNES SYMBOL:  (F)  (E)  (R)



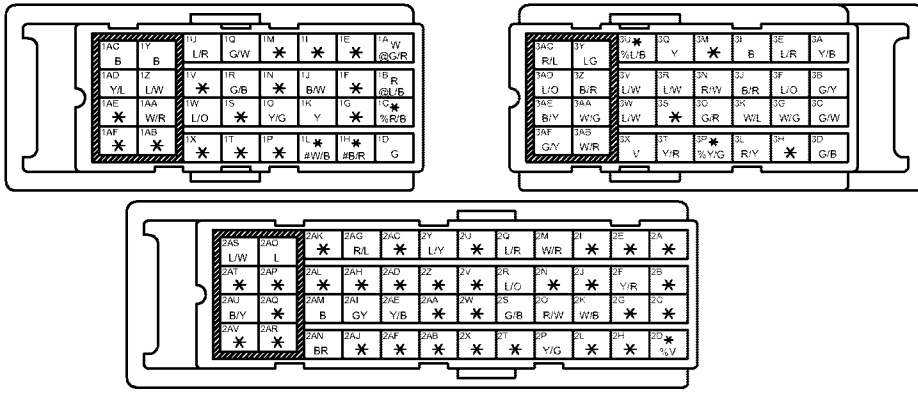
ELECTRONIC ENGINE CONTROL (MZ-CD 1.4 DI Turbo)

B-2a

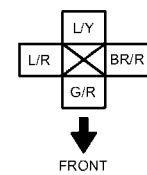


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B2-01 PCM(EM)



B2-02 MAIN RELAY(F)

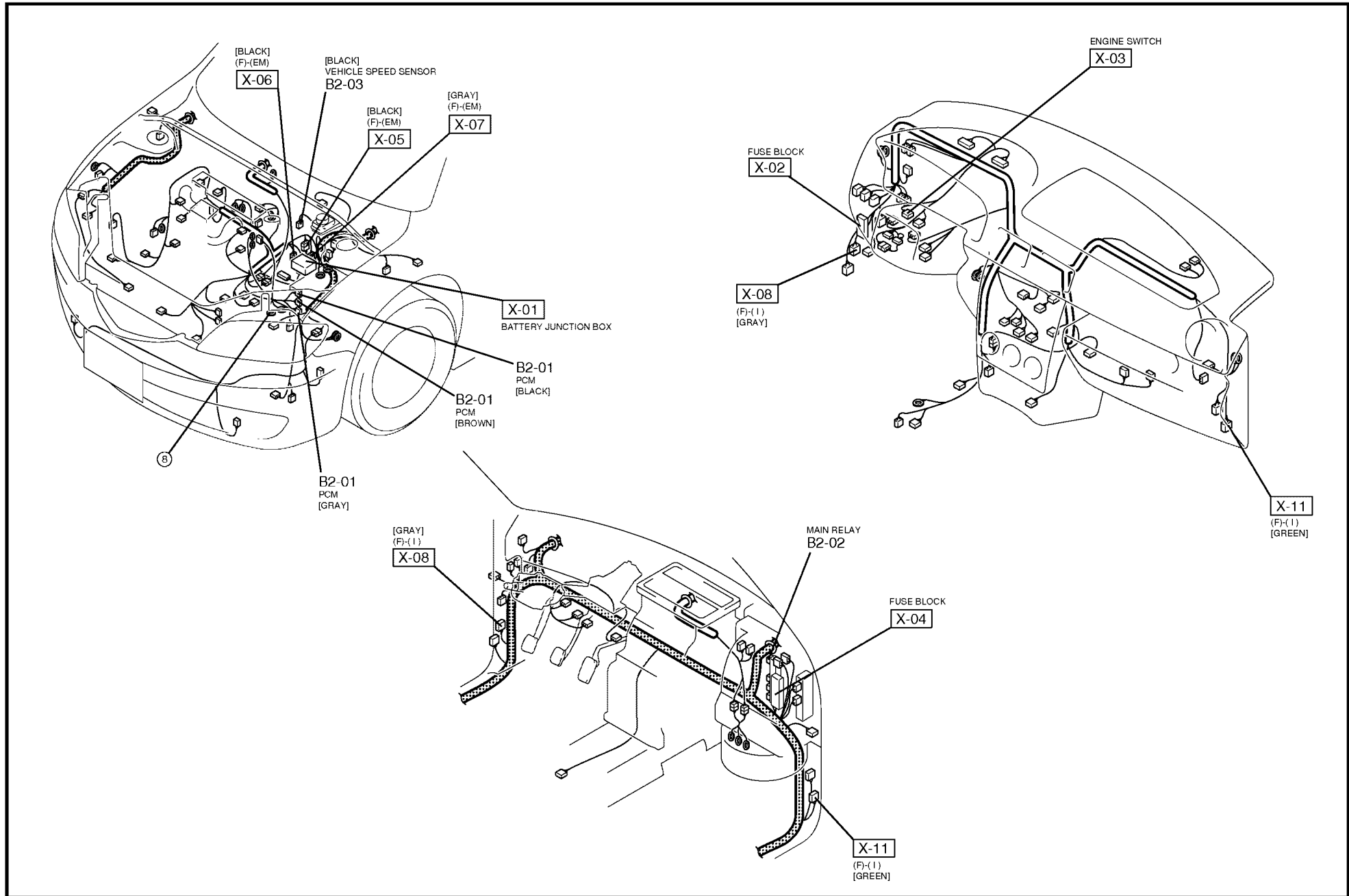


NOTE: THIS IS THE CONNECTOR AS SEEN FROM THE TERMINAL SIDE.

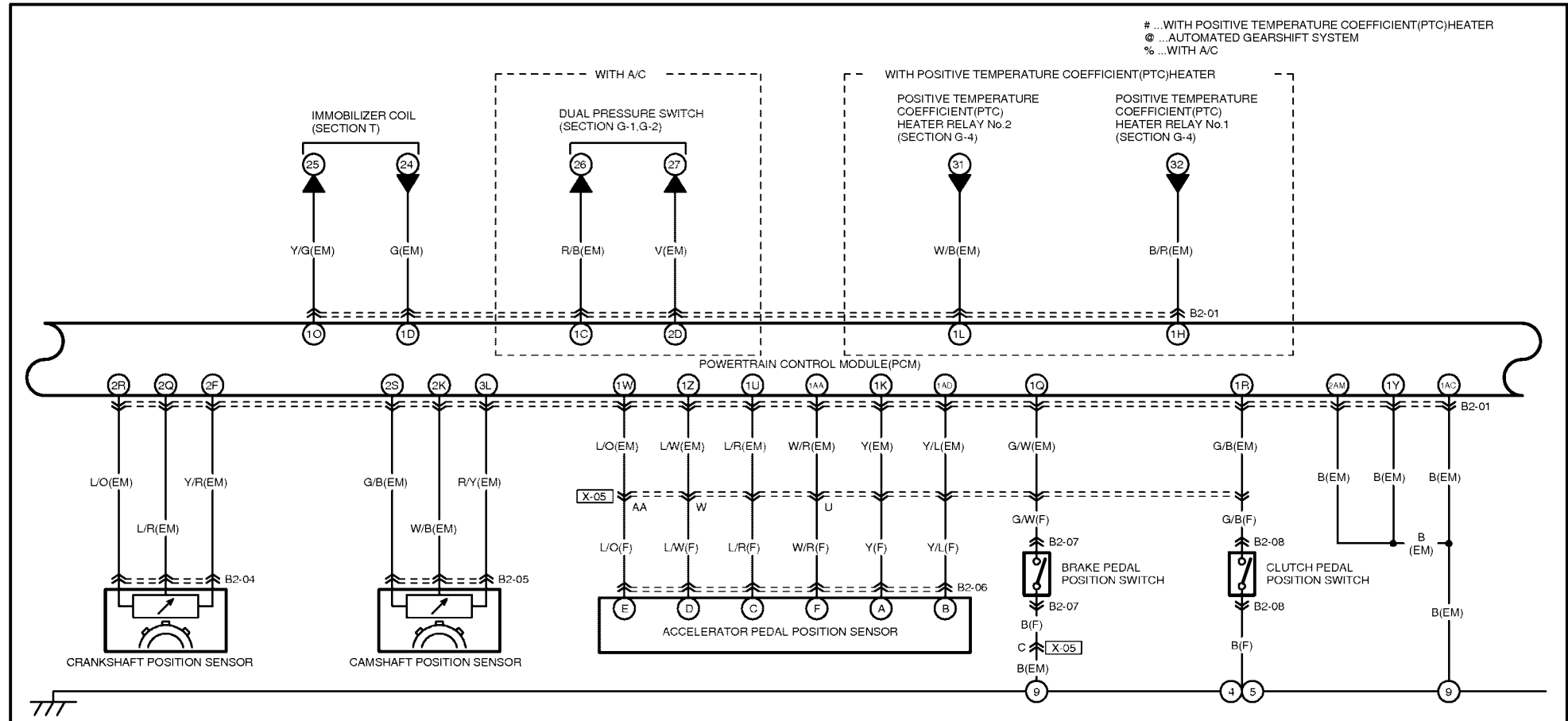
B2-03 VEHICLE SPEED SENSOR(F)



HARNES SYMBOL:  (F)  (E)  (R)



...WITH POSITIVE TEMPERATURE COEFFICIENT(PTC)HEATER
 @ ...AUTOMATED GEARSHIFT SYSTEM
 % ...WITH A/C



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B2-01 PCM(EM)

B2-04 CRANKSHAFT POSITION SENSOR (EM)

B2-06 ACCELERATOR PEDAL POSITION SENSOR(F)

B2-05 CAMSHAFT POSITION SENSOR(EM)

B2-07 BRAKE PEDAL POSITION SWITCH(F)

B2-08 CLUTCH PEDAL POSITION SWITCH (F)

HARNESS SYMBOL:  (F)  (E)  (R)

[GRAY]
CAMSHAFT POSITION SENSOR
B2-05

[BLACK]
CRANKSHAFT POSITION SENSOR
B2-04

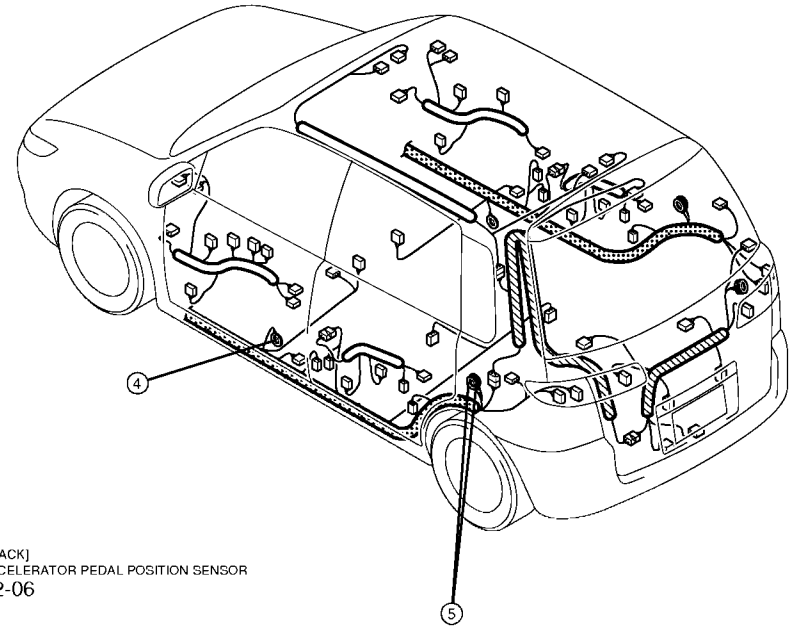
[BLACK]
(F)-(EM)
X-05

9

B2-01
PCM
[BLACK]

B2-01
PCM
[BROWN]

B2-01
PCM
[GRAY]

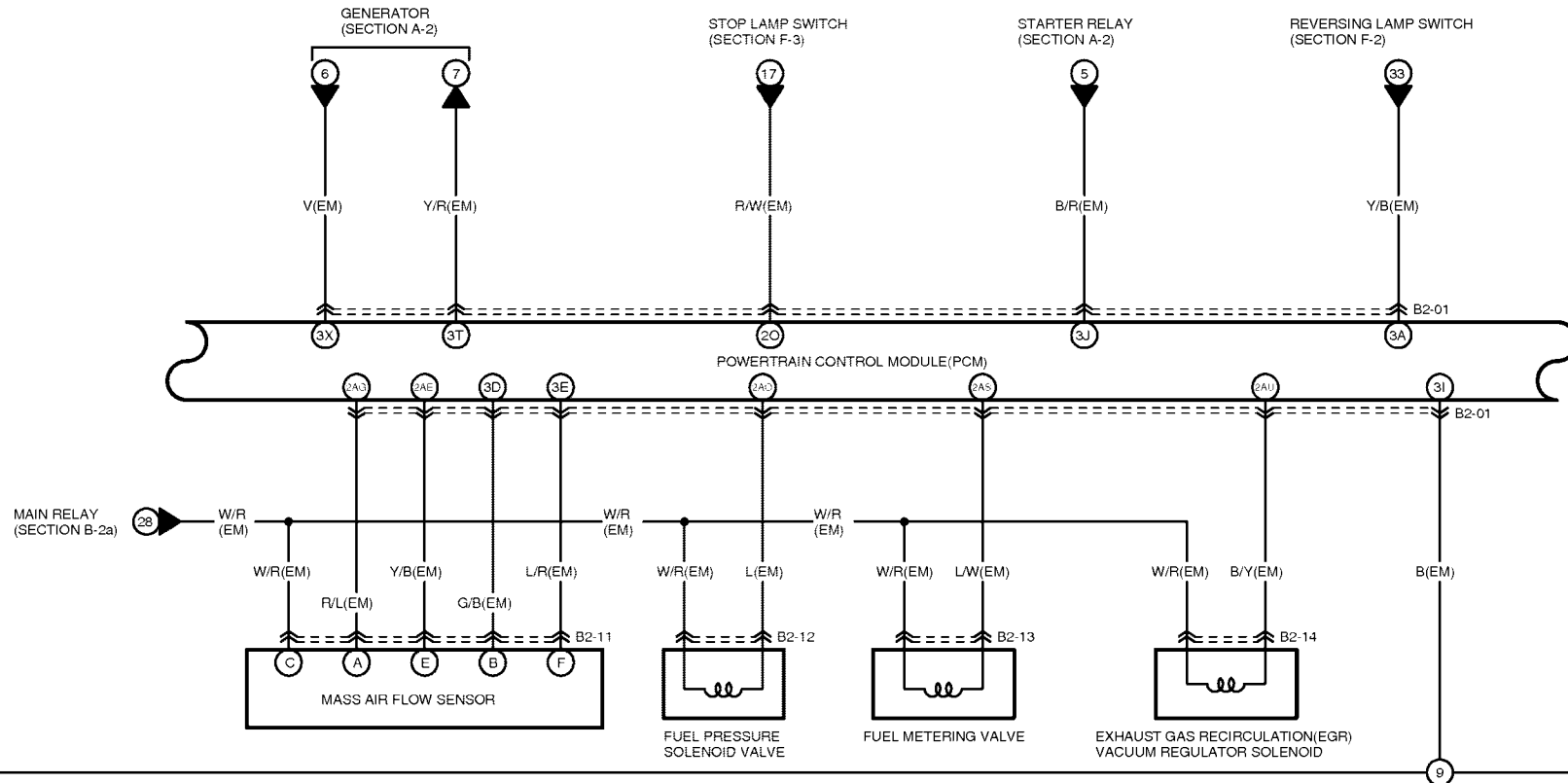


[BLACK]
ACCELERATOR PEDAL POSITION SENSOR
B2-06

B2-08
CLUTCH PEDAL
POSITION SWITCH
[BLACK]

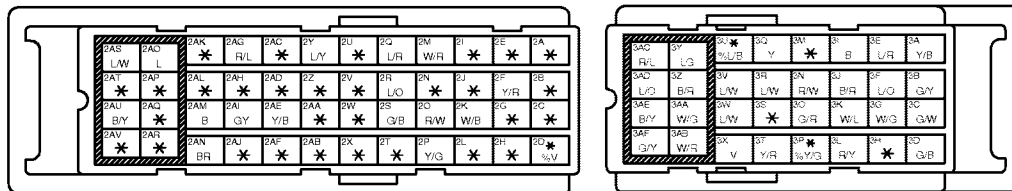
B2-07
BRAKE PEDAL
POSITION SWITCH
[BLACK]

% ...WITH A/C

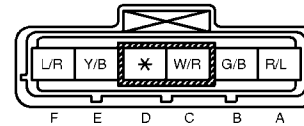


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B2-01 PCM(EM)



B2-11 MASS AIR FLOW SENSOR(EM)



B2-12 FUEL PRESSURE SOLENOID VALVE(EM)



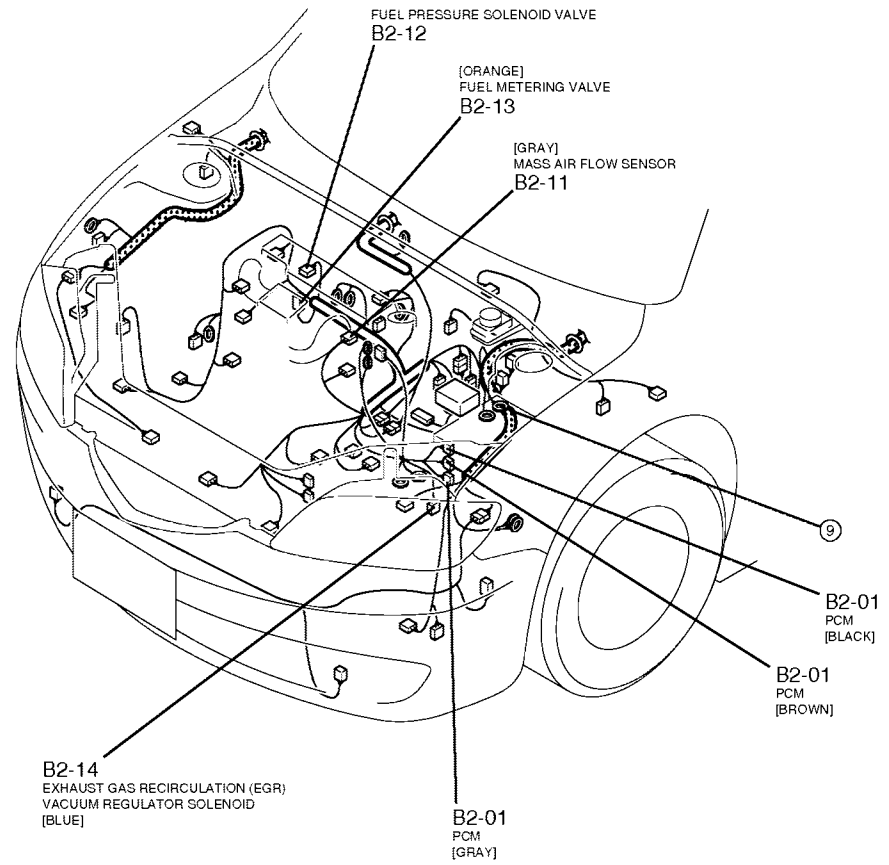
B2-13 FUEL METERING VALVE(EM)



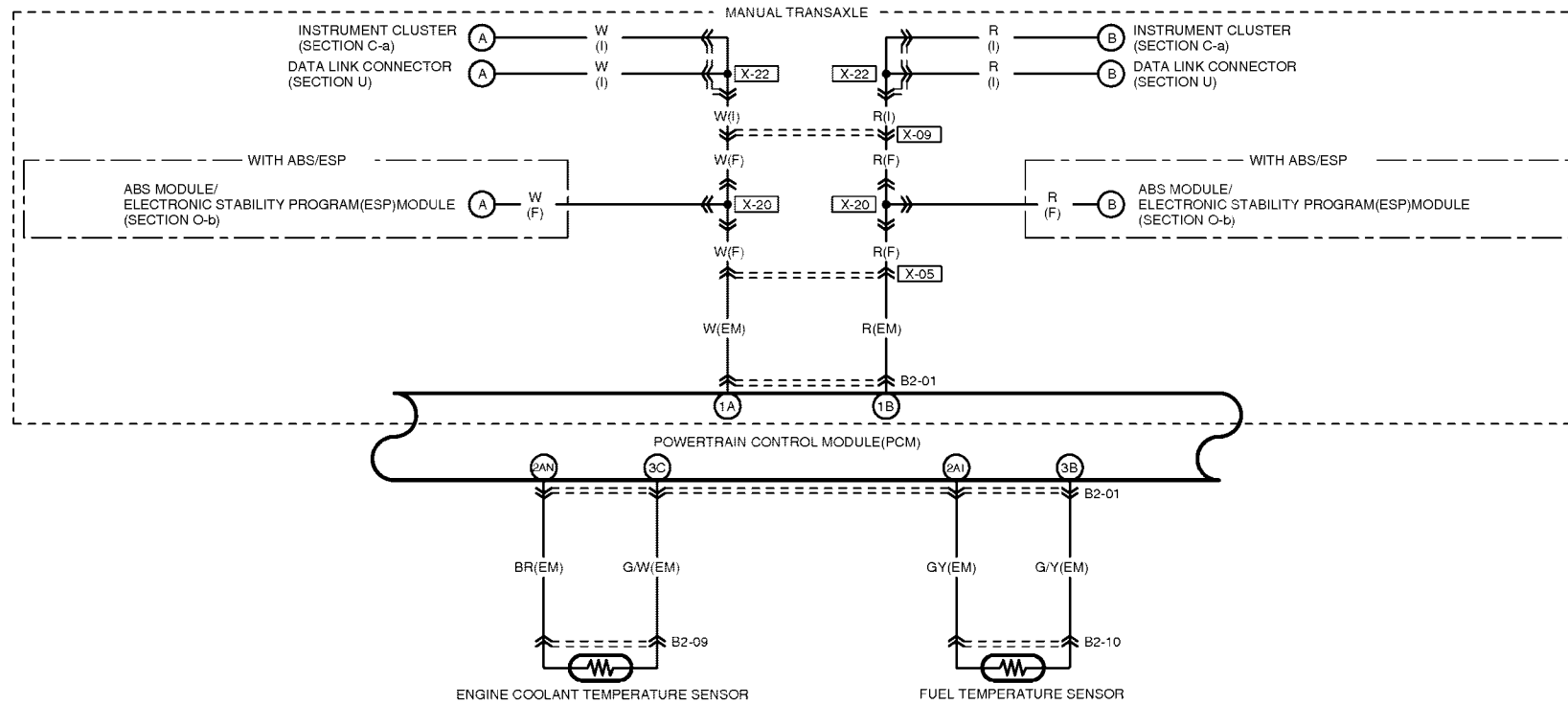
B2-14 EXHAUST GAS RECIRCULATION(EGR) VACUUM REGULATOR SOLENOID(EM)



HARNES SYMBOL:  (F)  (E)  (R)

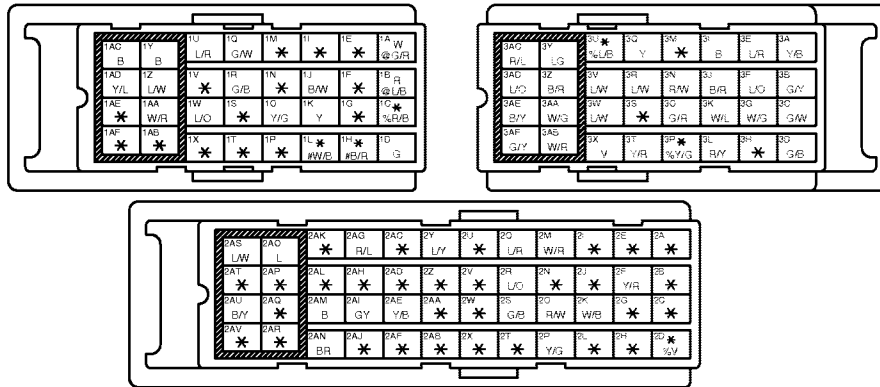


...WITH POSITIVE TEMPERATURE COEFFICIENT(PTC)HEATER
 @ ...AUTOMATED GEARSHIFT SYSTEM
 % ...WITH A/C

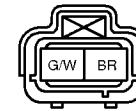


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B2-01 PCM(EM)



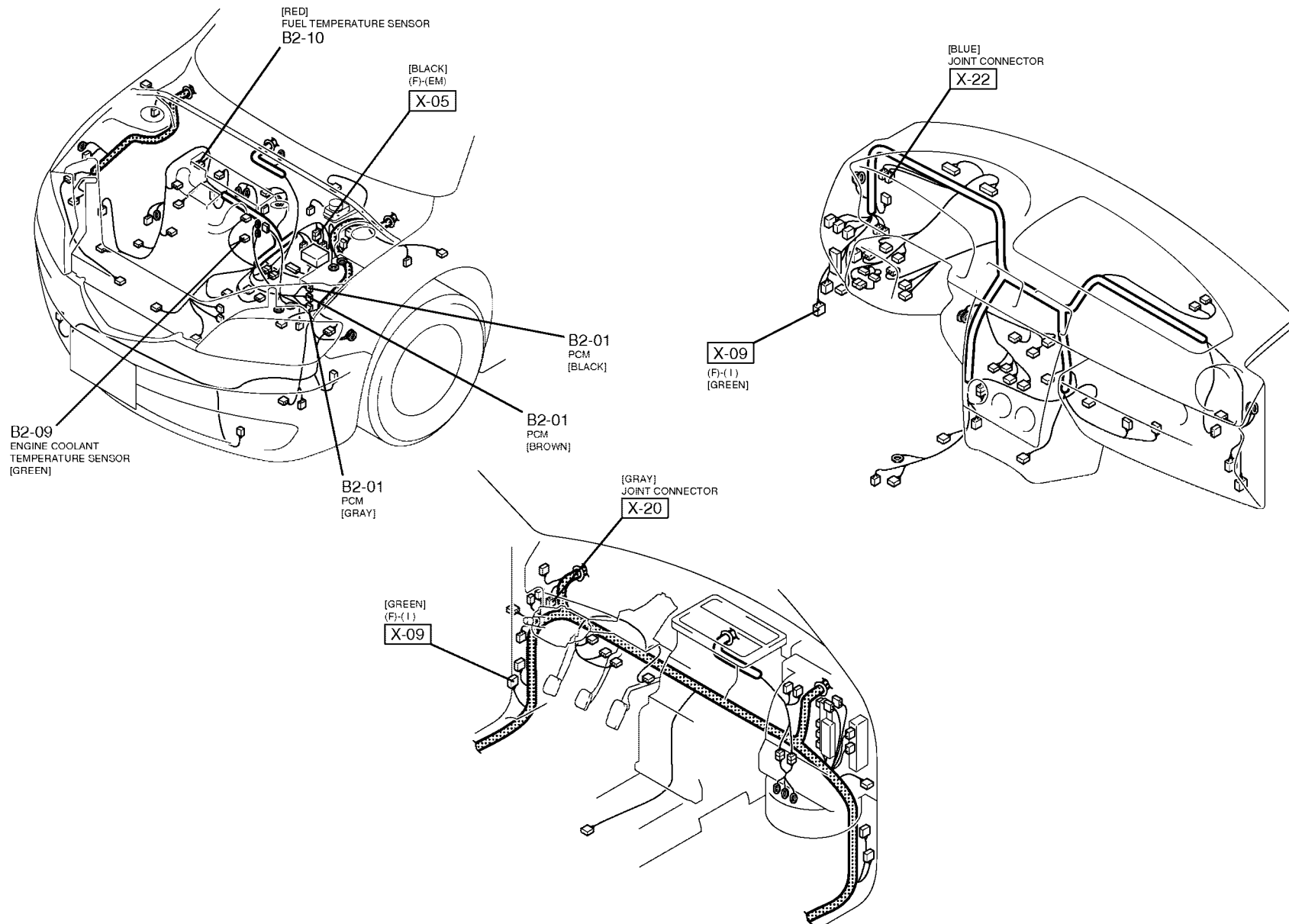
B2-09 ENGINE COOLANT TEMPERATURE SENSOR(EM)



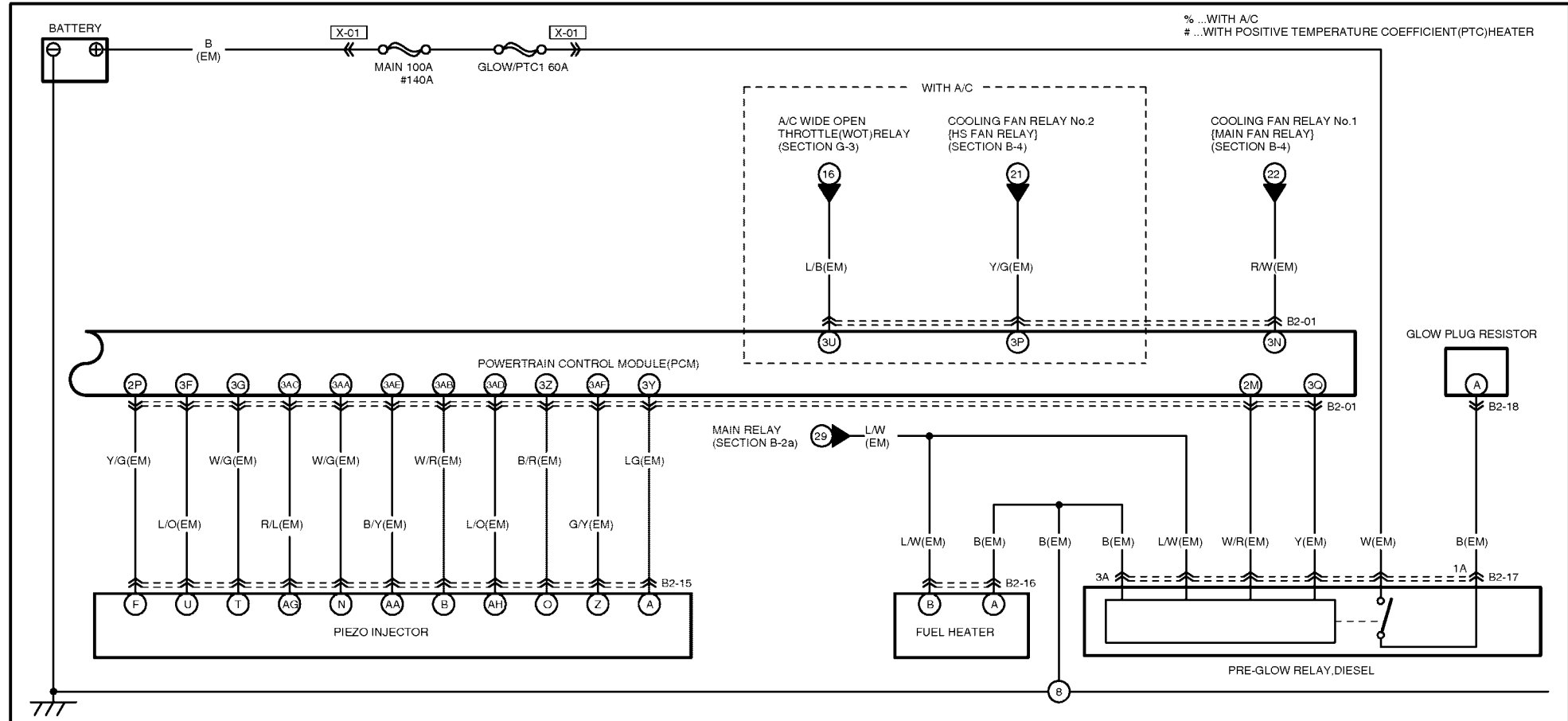
B2-10 FUEL TEMPERATURE SENSOR(EM)



HARNESS SYMBOL:  (F)  (E)  (R)

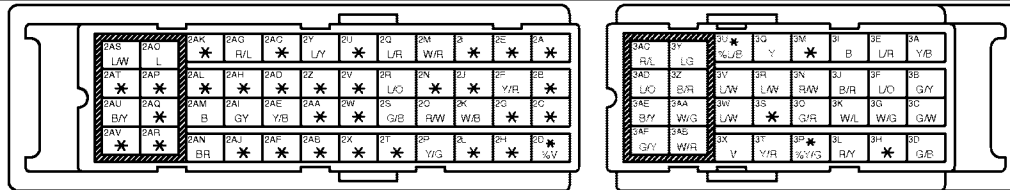


% ...WITH A/C
...WITH POSITIVE TEMPERATURE COEFFICIENT(PTC)HEATER

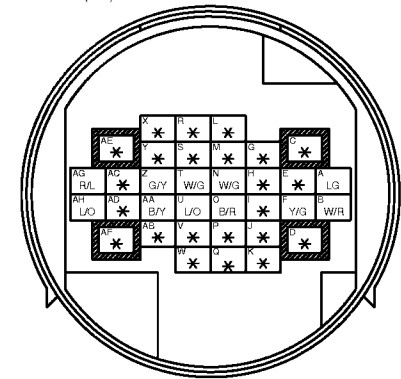


50

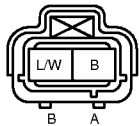
B2-01 PCM(EM)



B2-15 PIEZO INJECTOR(EM)



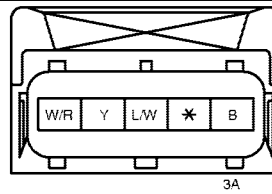
B2-16 FUEL HEATER(EM)



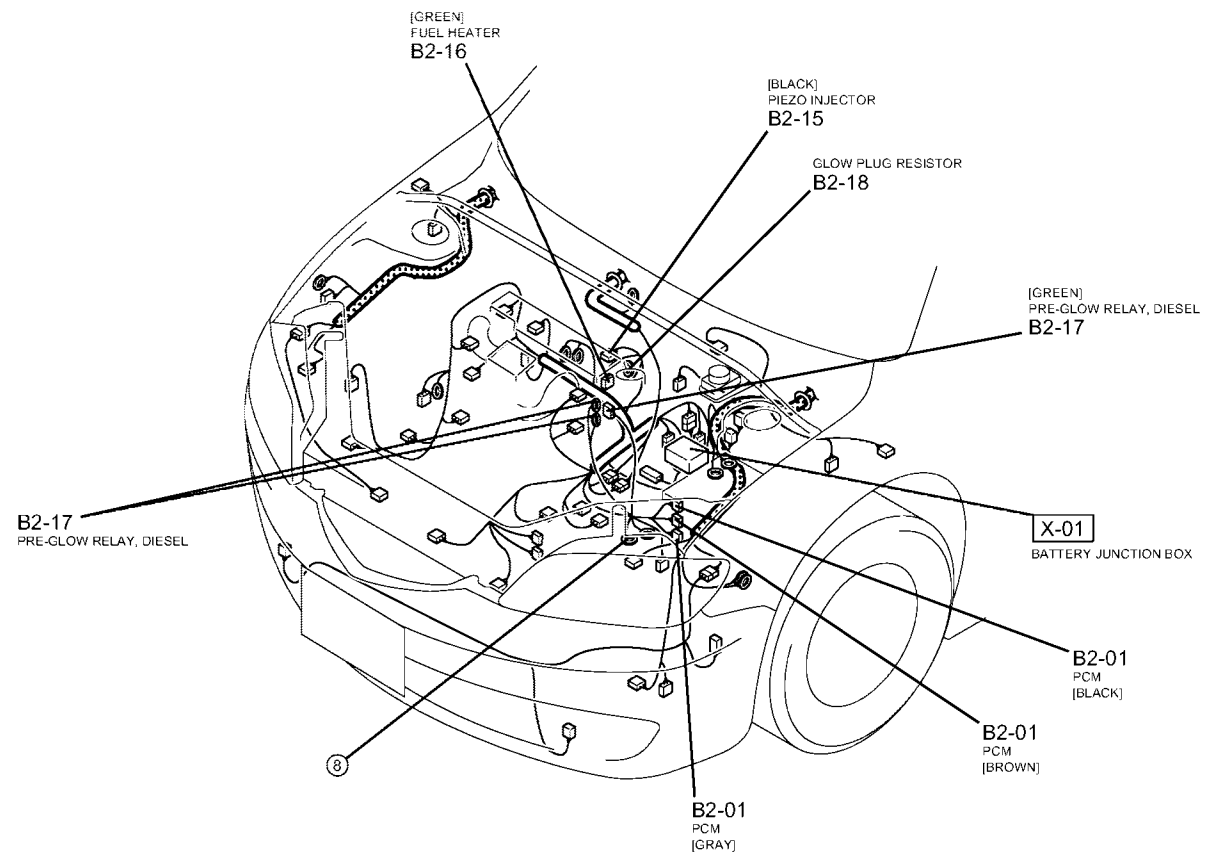
B2-17 PRE-GLOW RELAY,DIESEL(EM)



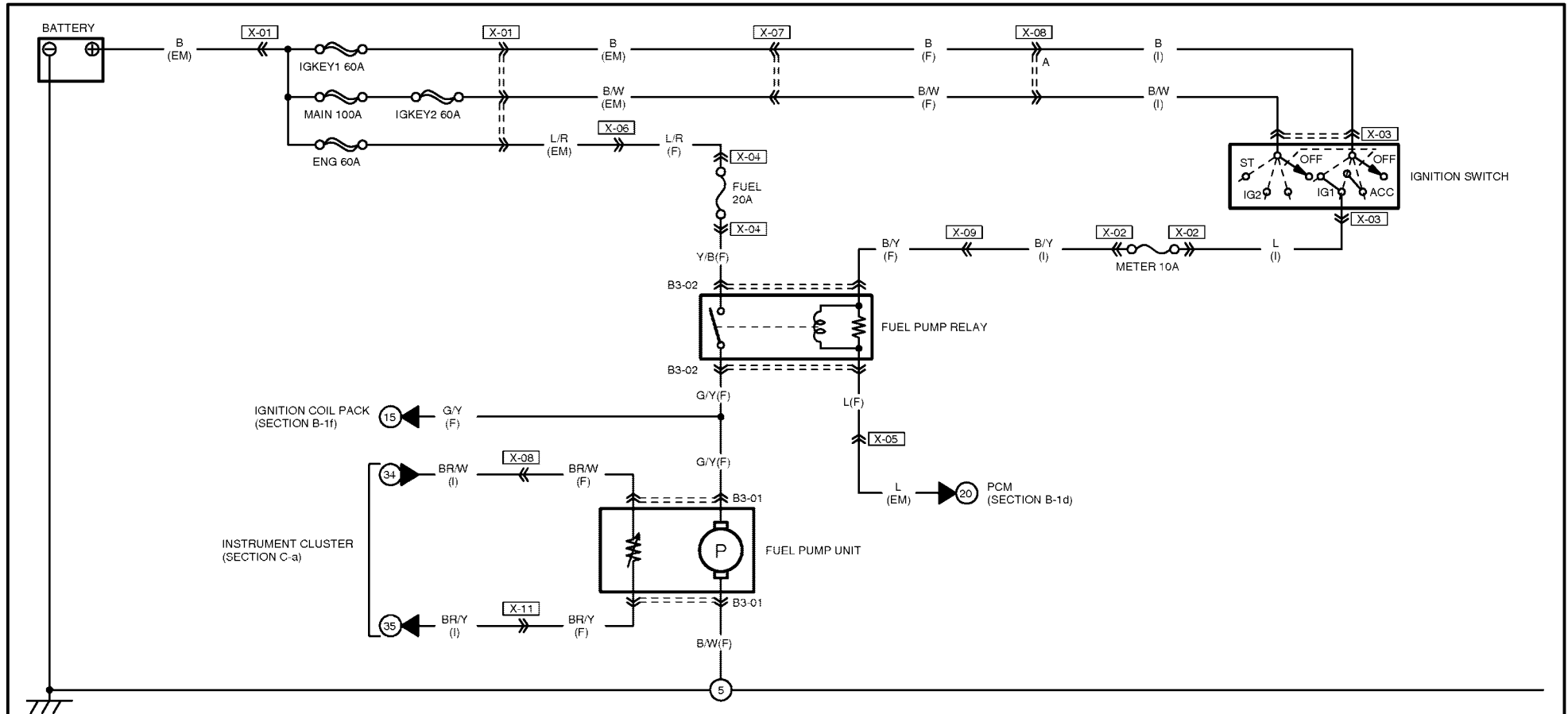
B2-18 GLOW PLUG RESISTOR(EM)




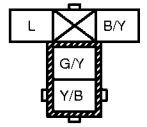
HARNES SYMBOL:  (F)  (E)  (R)



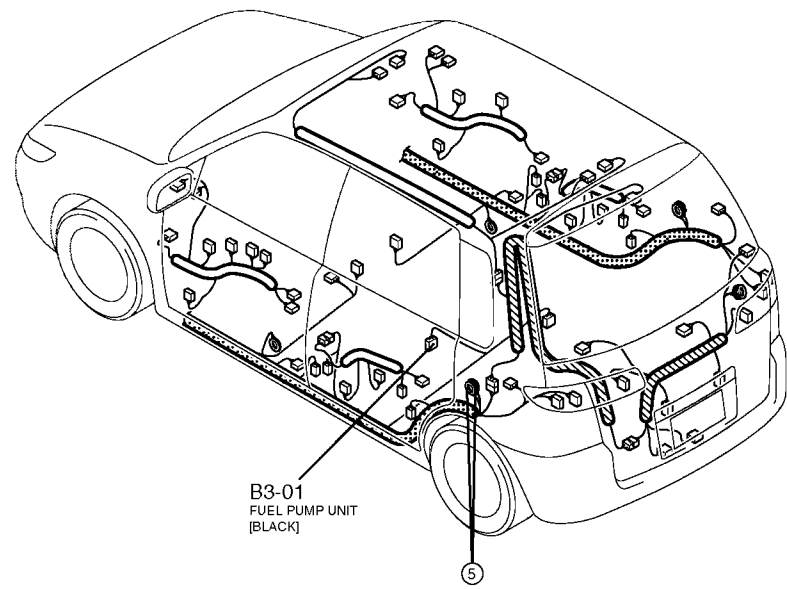
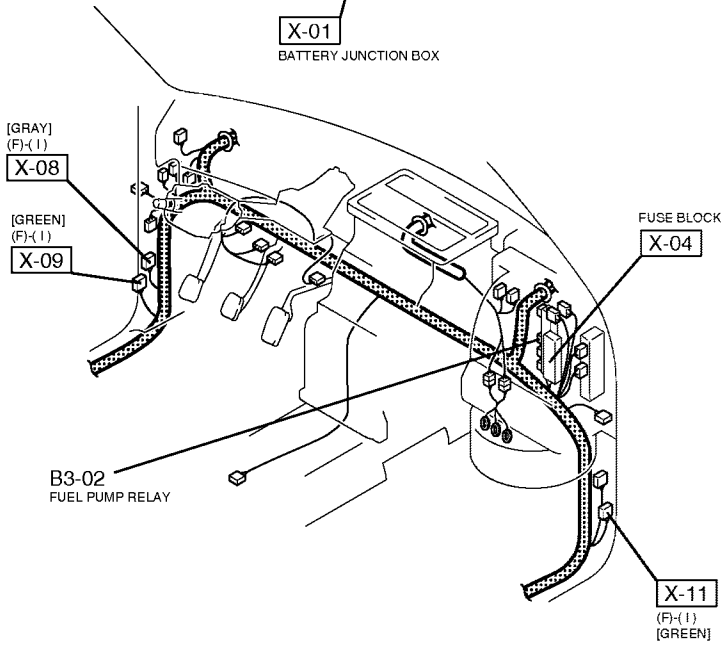
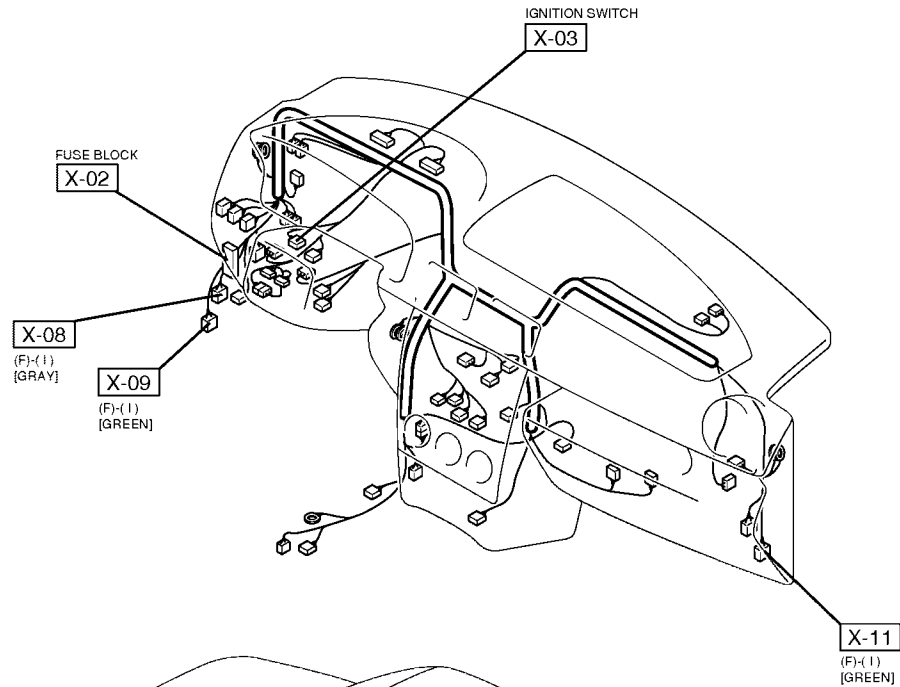
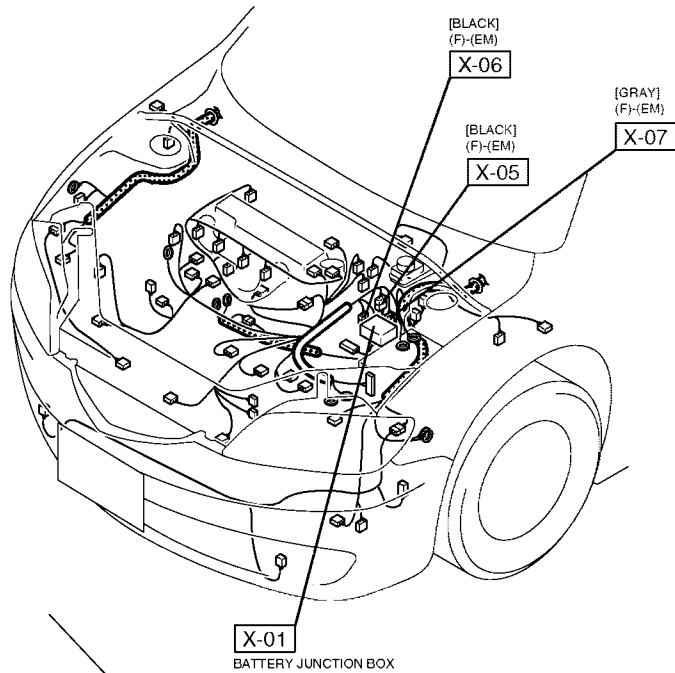
51



52

<p>B3-01 FUEL PUMP UNIT(F)</p> 	<p>B3-02 FUEL PUMP RELAY(F)</p>  <p>FRONT</p> <p>NOTE: THIS IS THE CONNECTOR AS SEEN FROM THE TERMINAL SIDE.</p>					
--	---	--	--	--	--	--

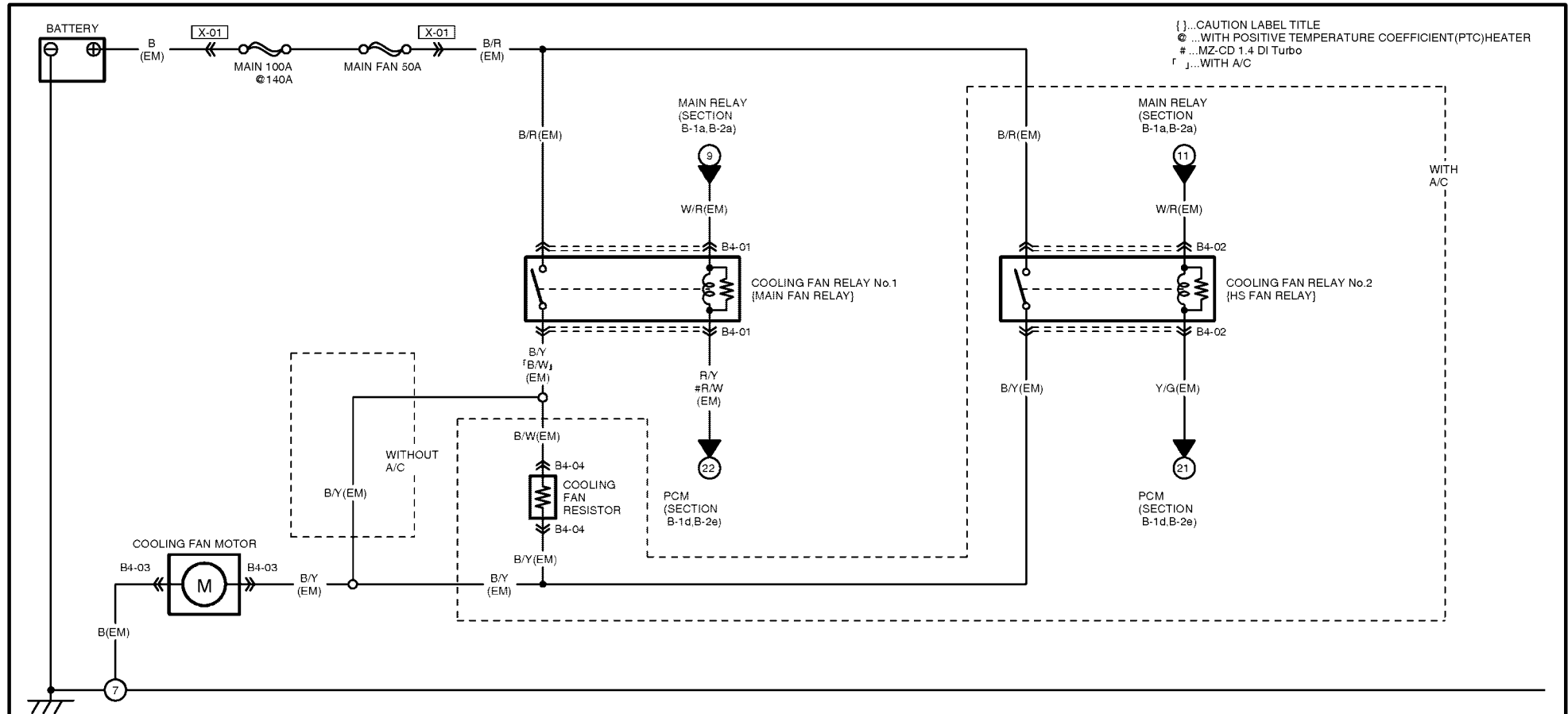
HARNES SYMBOL:  (F)  (E)  (R)



53

COOLING FAN SYSTEM

B-4

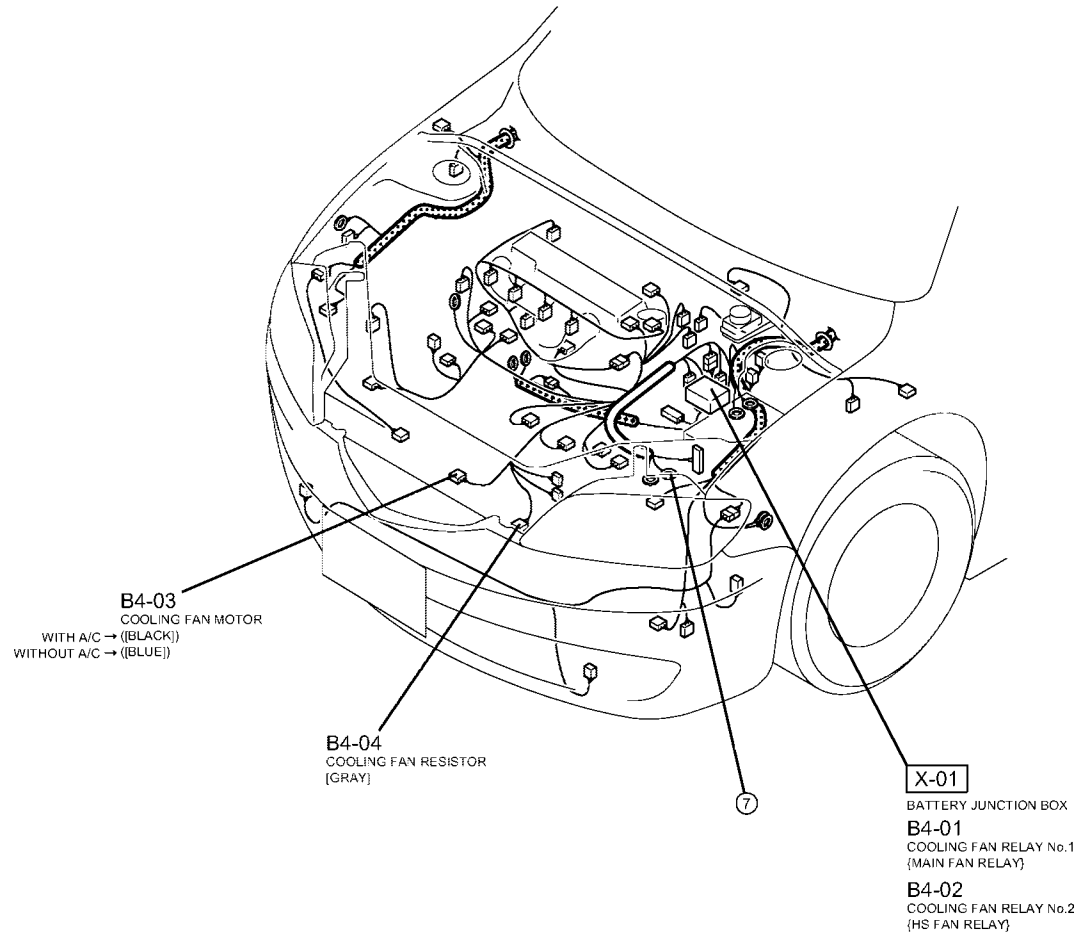


54

<p>B4-01 COOLING FAN RELAY No.1{MAIN FAN RELAY}(EM)</p> <p>NOTE: THIS IS THE CONNECTOR AS SEEN FROM THE TERMINAL SIDE.</p>	<p>B4-02 COOLING FAN RELAY No.2{HS FAN RELAY}(EM)</p> <p>NOTE: THIS IS THE CONNECTOR AS SEEN FROM THE TERMINAL SIDE.</p>	<p>B4-03 COOLING FAN MOTOR(EM)</p>	<p>B4-04 COOLING FAN RESISTOR(EM)</p>

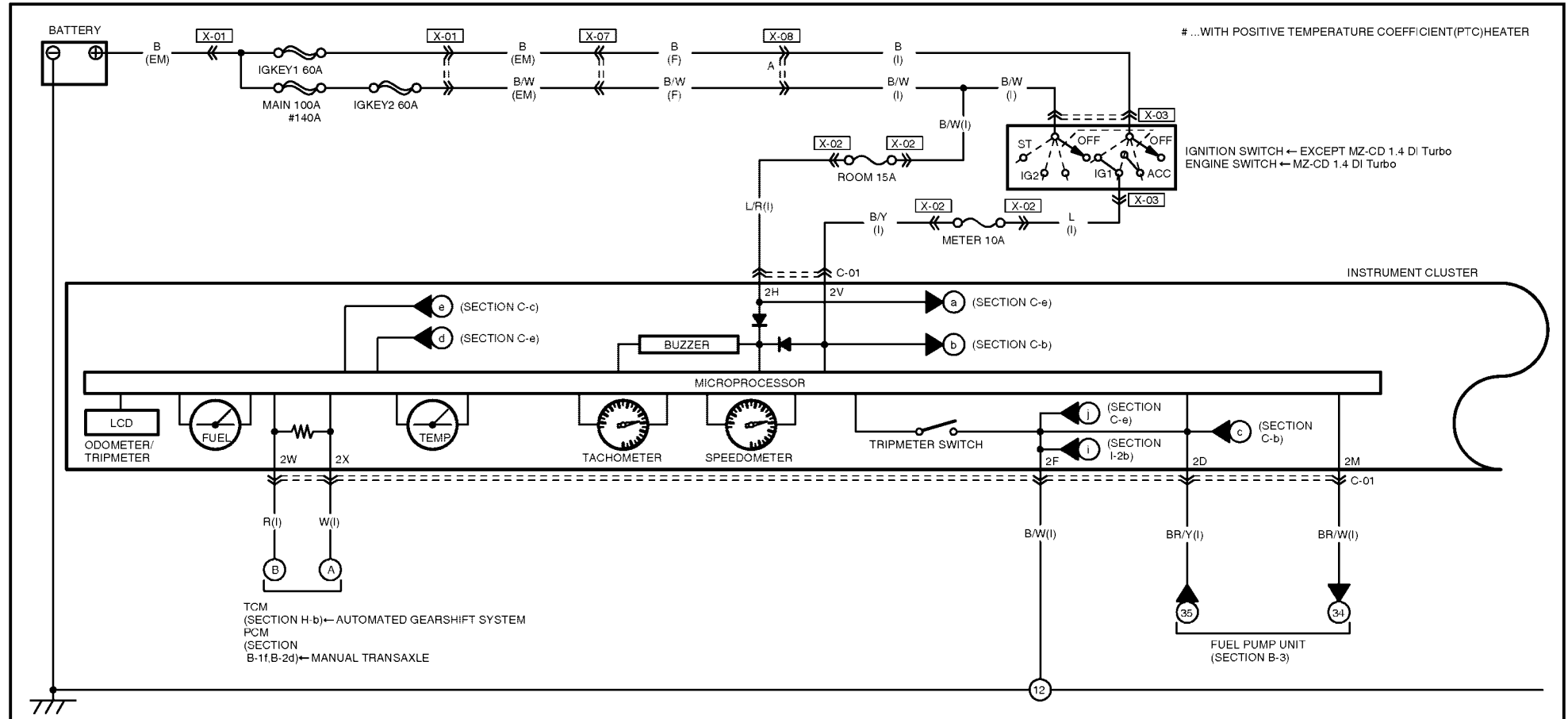
HARNES SYMBOL:  (F)  (E)  (R)

55



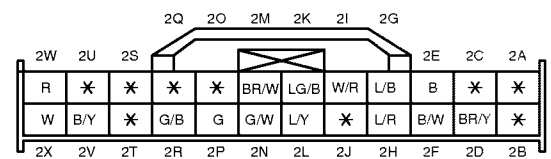
INSTRUMENT CLUSTER

C-a

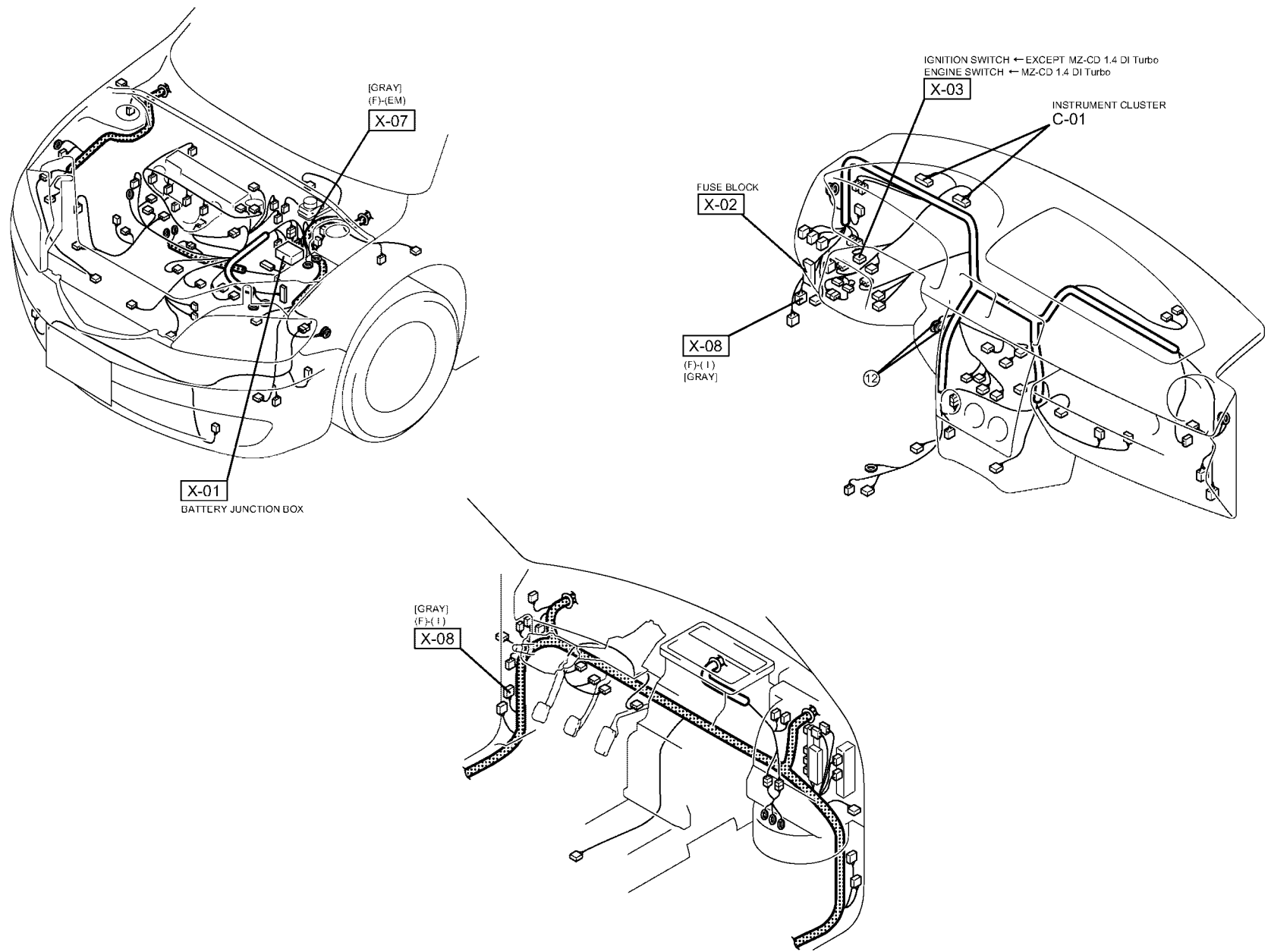


56

C-01 INSTRUMENT CLUSTER(I)

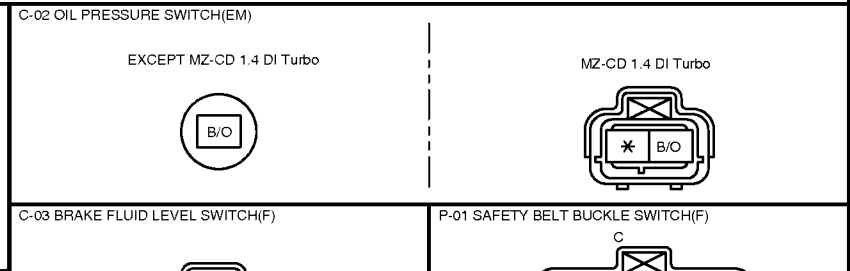
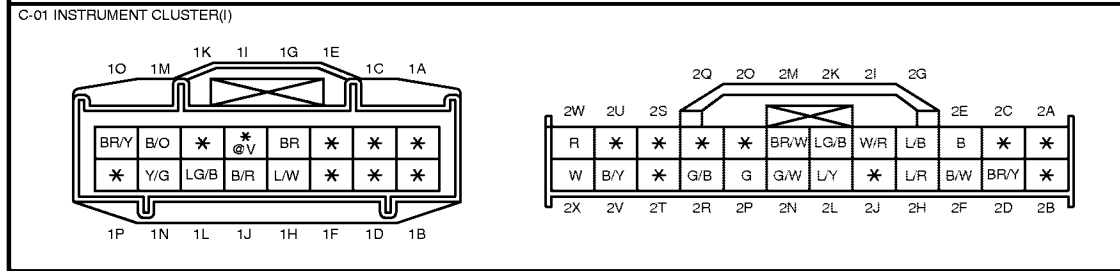
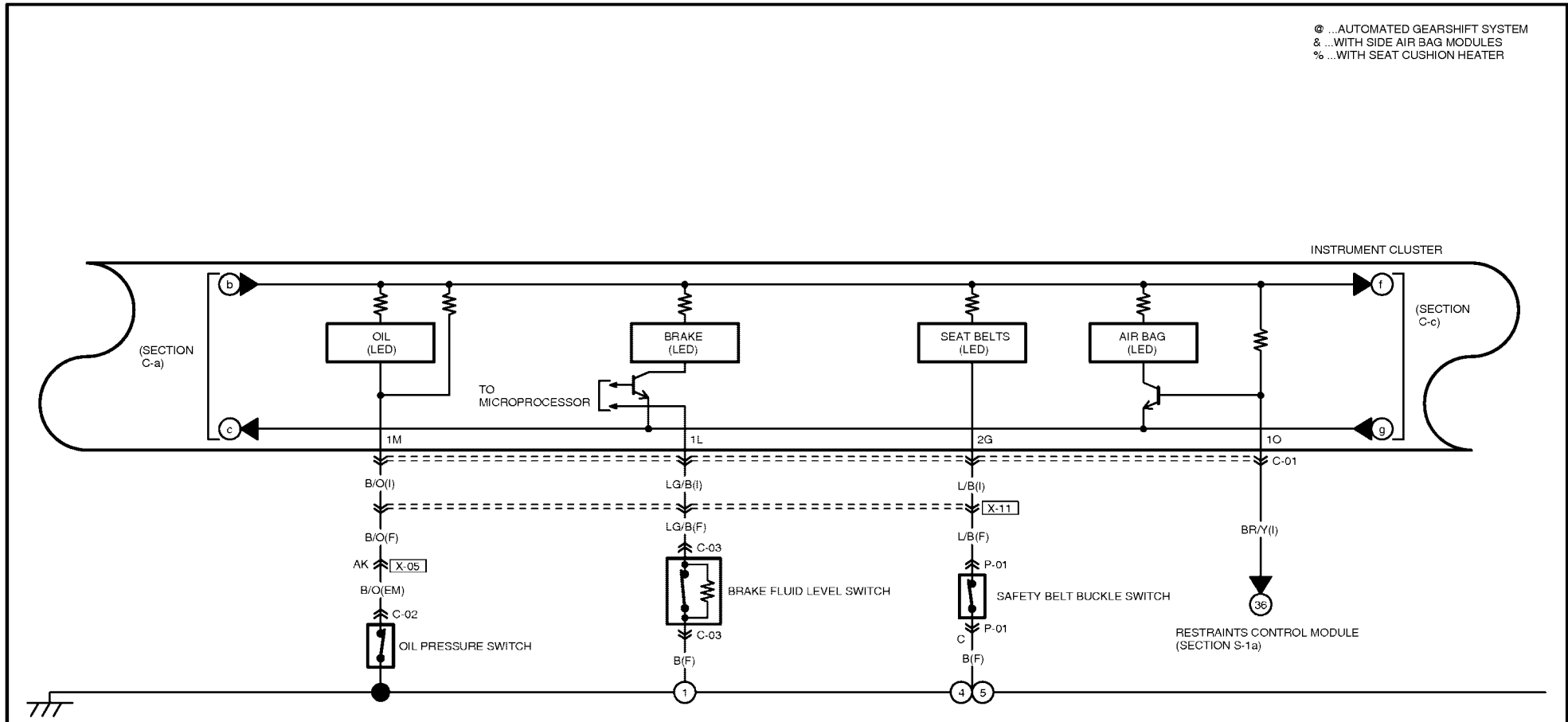





HARNES SYMBOL:  (F)  (E)  (R)



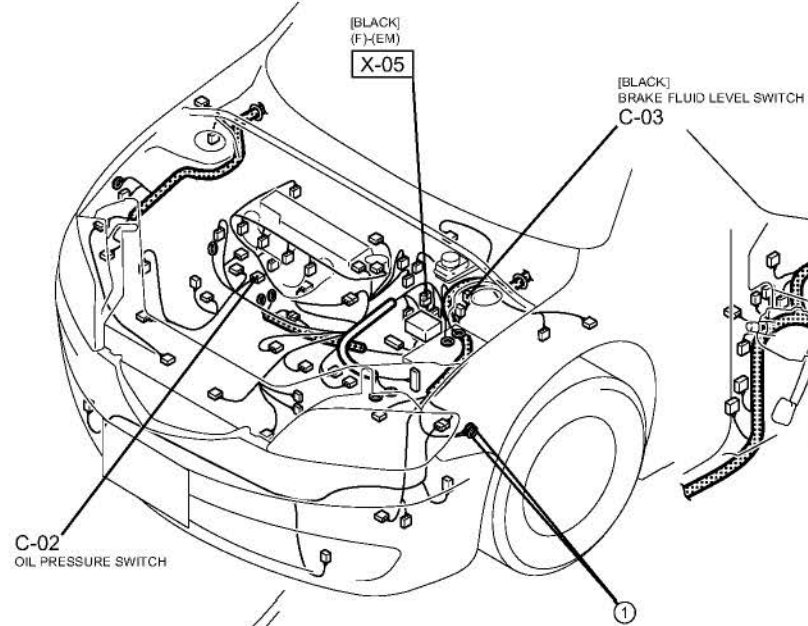
Ⓒ ...AUTOMATED GEARSHIFT SYSTEM
 & ...WITH SIDE AIR BAG MODULES
 % ...WITH SEAT CUSHION HEATER

58

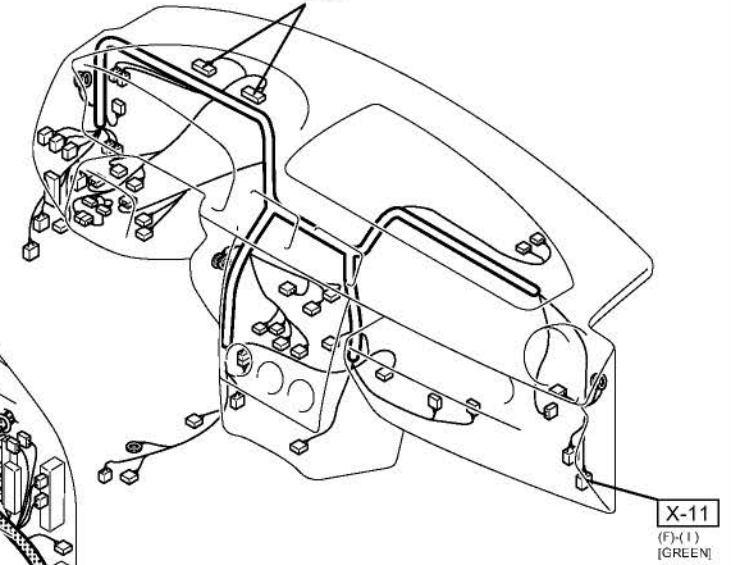


HARNES SYMBOL:  (F)  (E)  (R)

[EXCEPT MZ-CD 1.4 DI Turbo]

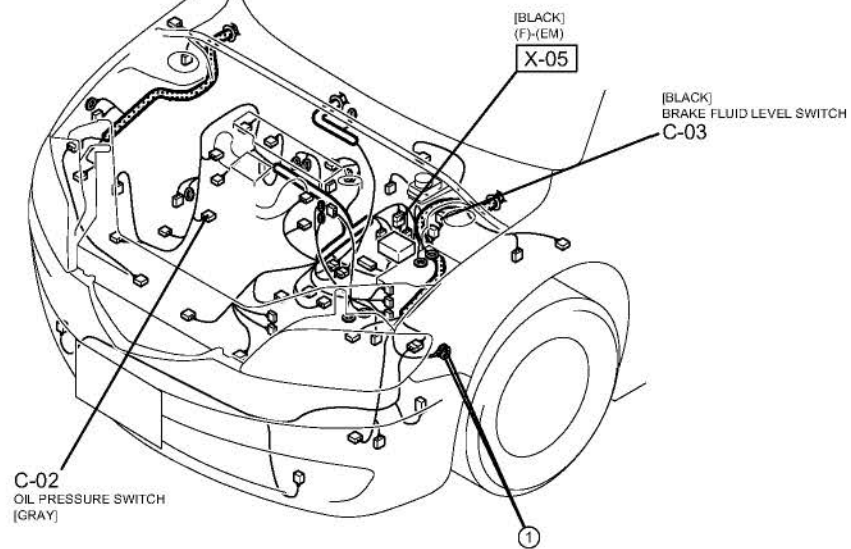


INSTRUMENT CLUSTER
C-01

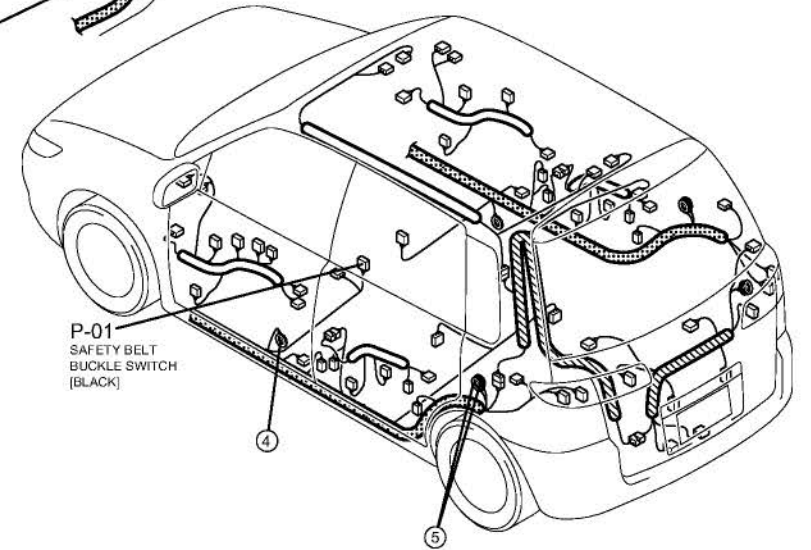


59

[MZ-CD 1.4 DI Turbo]



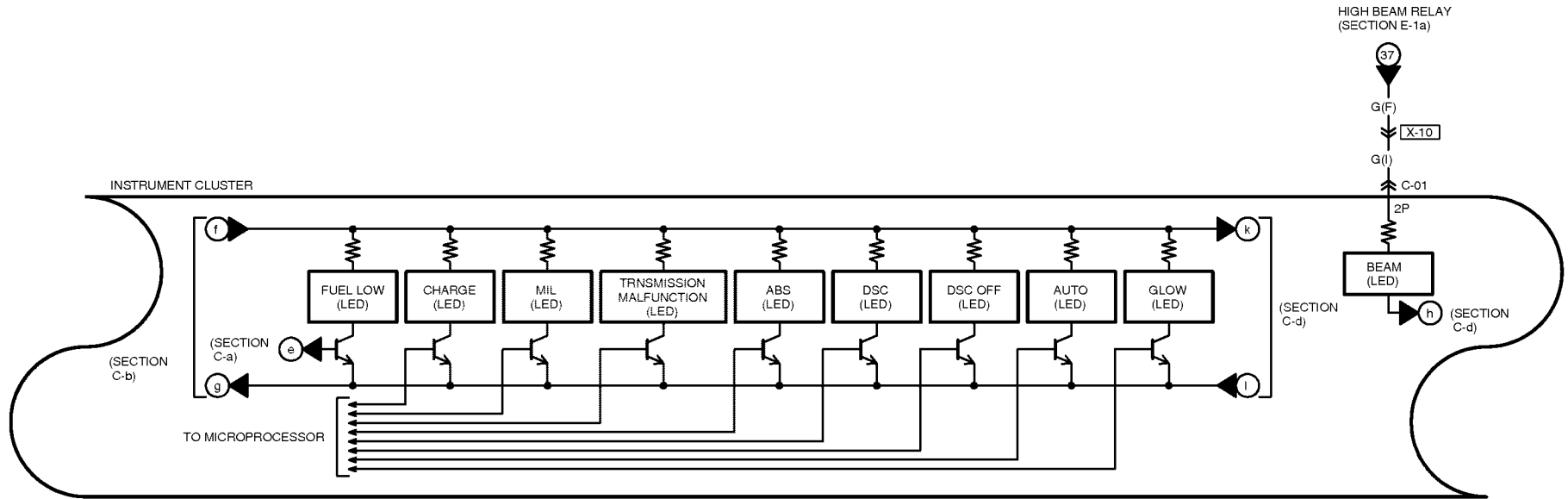
X-11
(F)-(1)
[GREEN]



C-b

INSTRUMENT CLUSTER

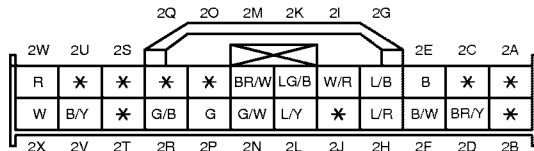
C-c



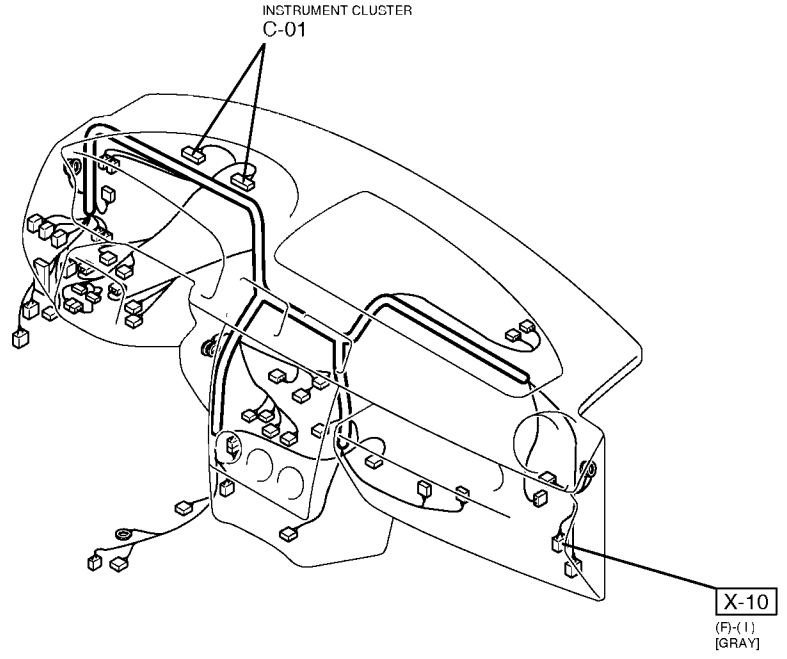
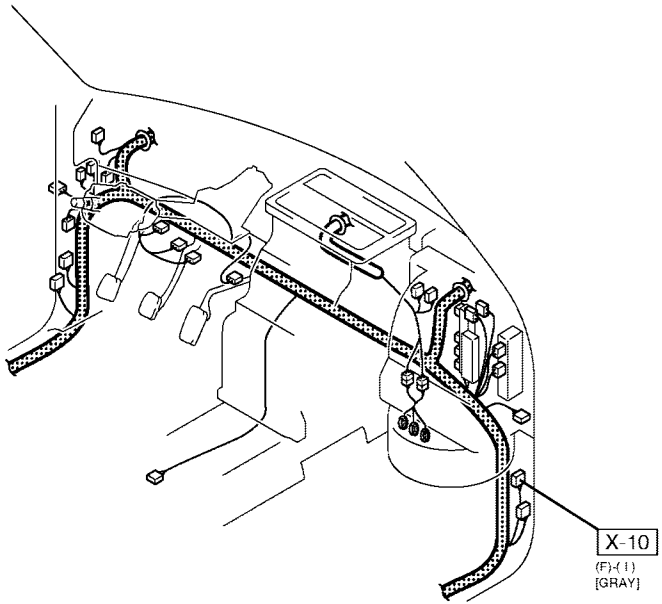
69



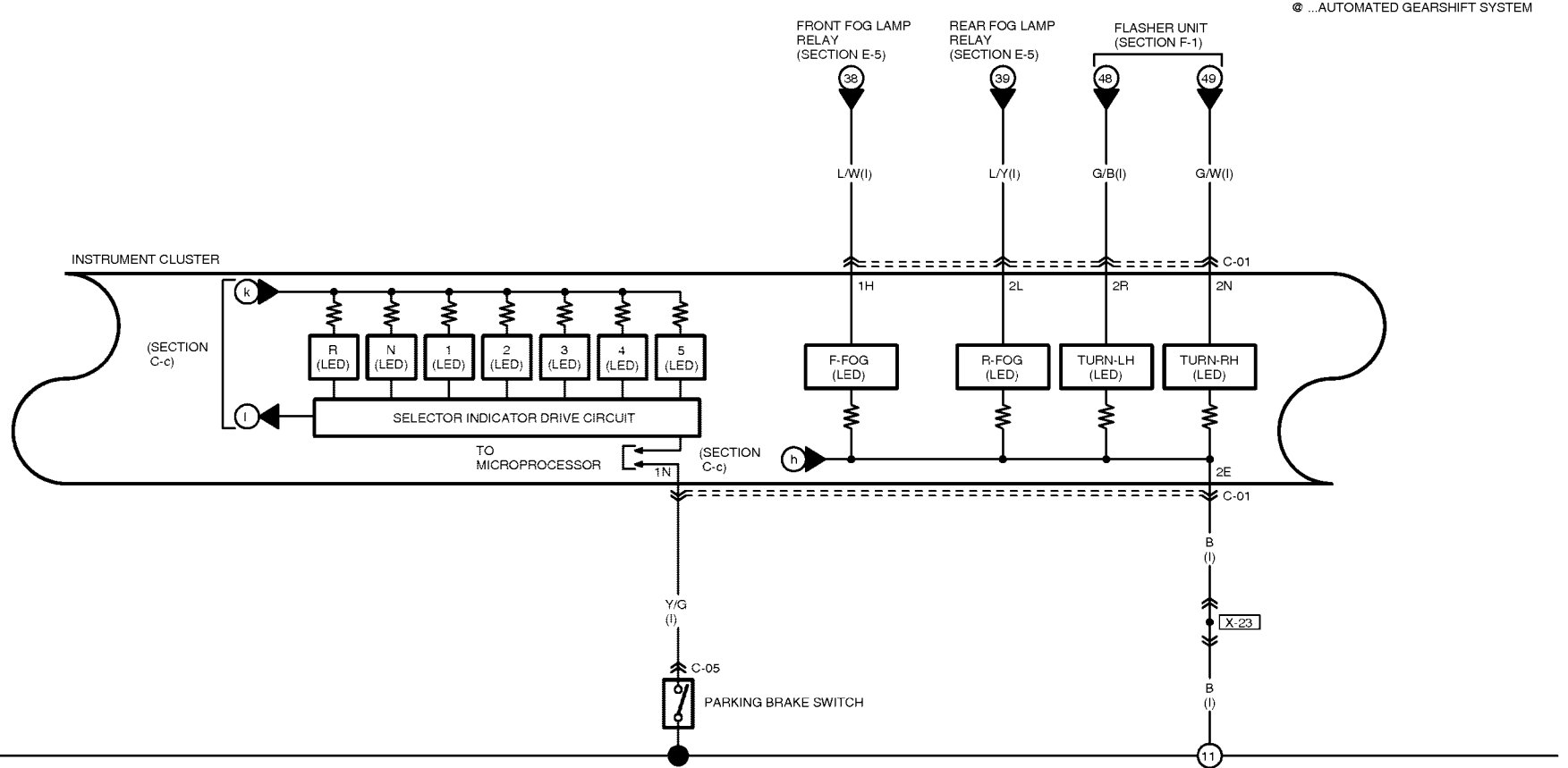
C-01 INSTRUMENT CLUSTER(I)



HARNESS SYMBOL:  (F)  (E)  (R)

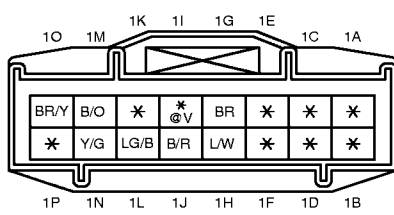


© ...AUTOMATED GEARSHIFT SYSTEM

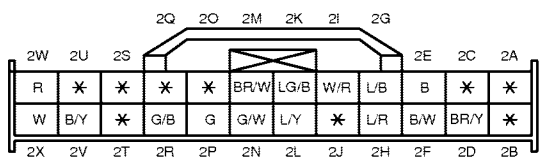


62

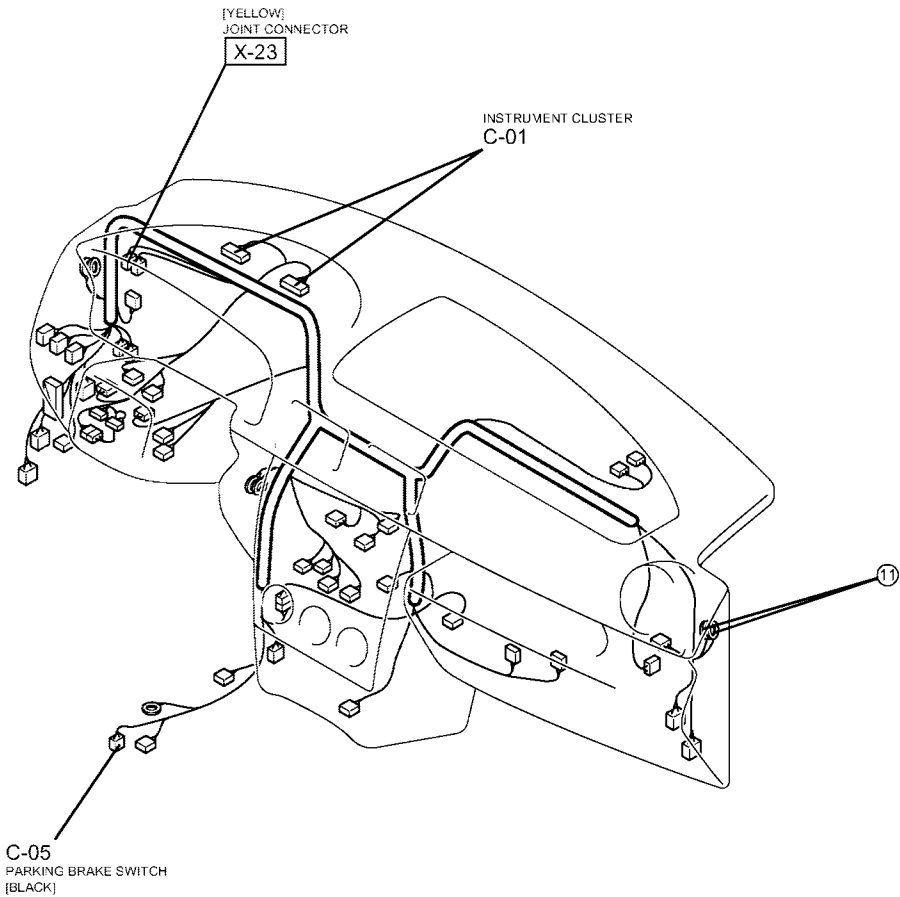
C-01 INSTRUMENT CLUSTER(I)



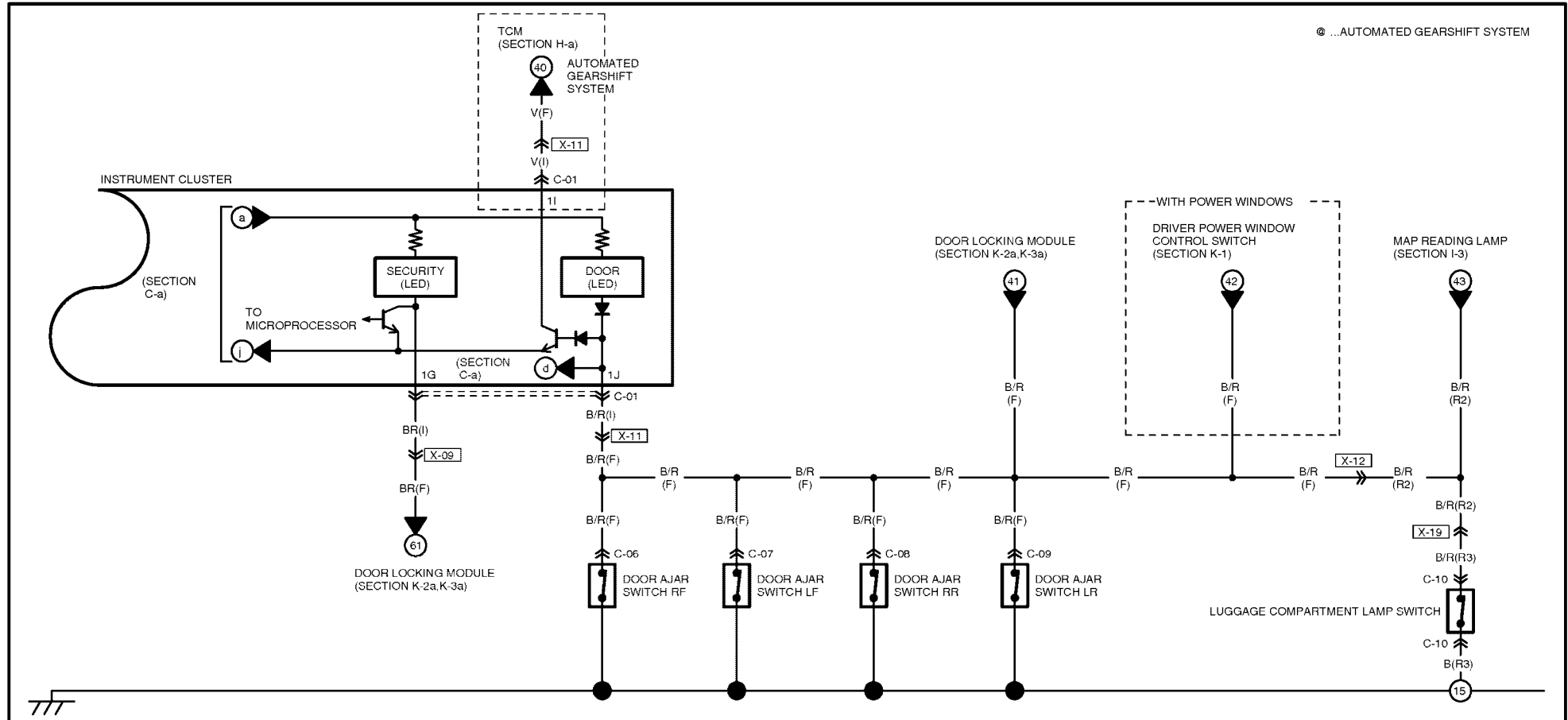
C-05 PARKING BRAKE SWITCH(I)



HARNES SYMBOL:  (F)  (E)  (R)



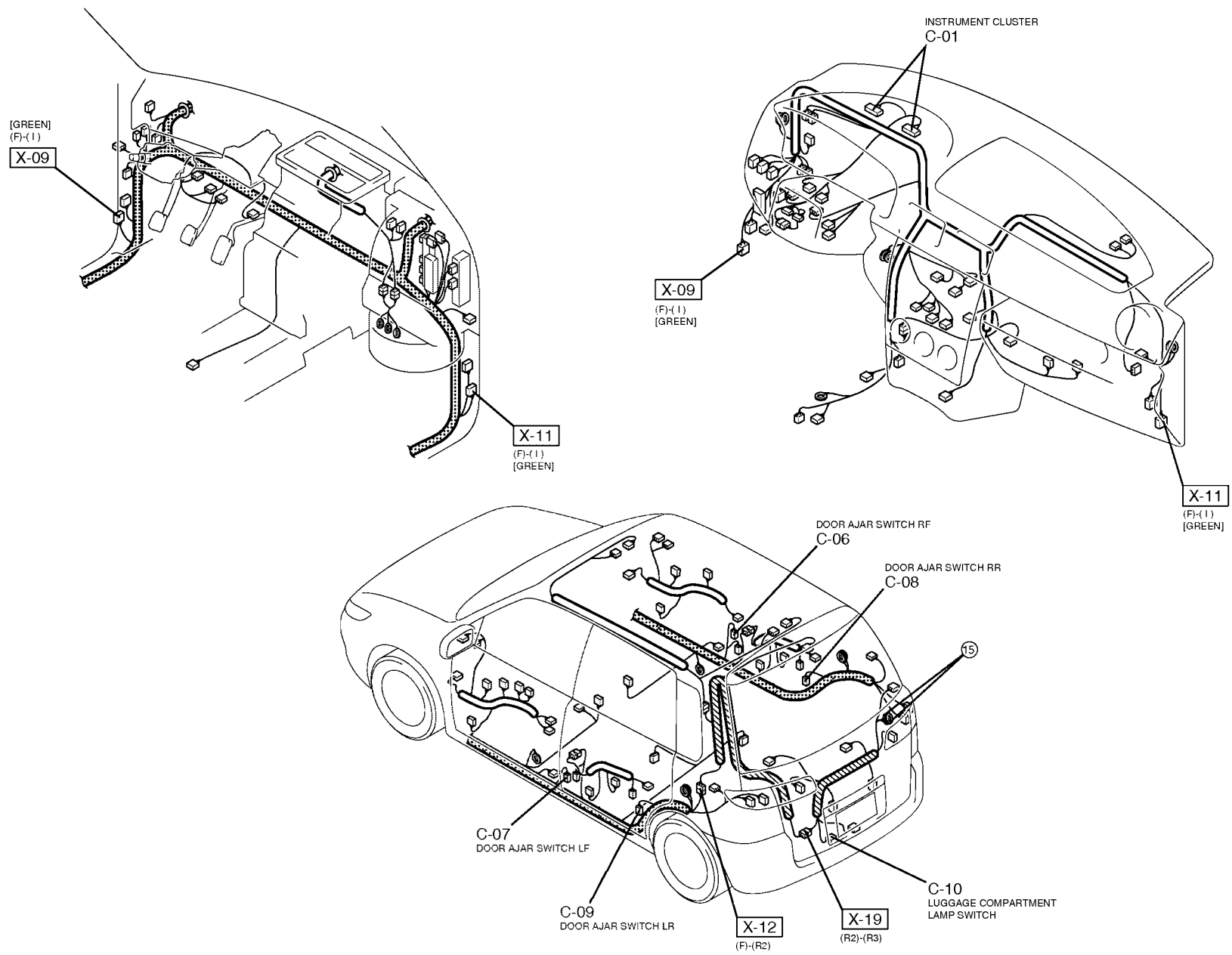
63



64

<p>C-01 INSTRUMENT CLUSTER(I)</p>	<p>C-06 DOOR AJAR SWITCH RF(F)</p>	<p>C-07 DOOR AJAR SWITCH LF(F)</p>	<p>C-08 DOOR AJAR SWITCH RR(F)</p>	<p>C-09 DOOR AJAR SWITCH LR(F)</p>	
	<p>C-10 LUGGAGE COMPARTMENT LAMP SWITCH(R3)</p>				

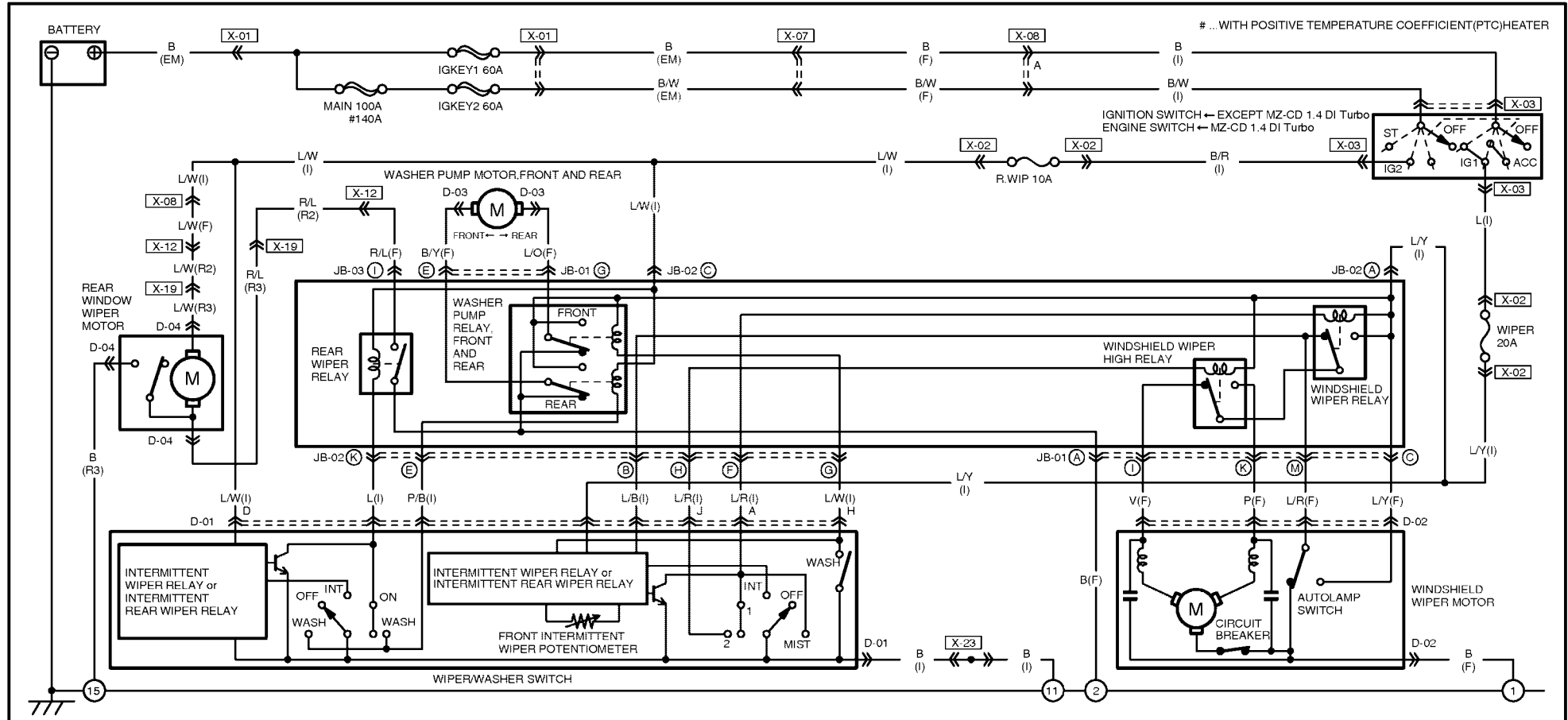
HARNES SYMBOL:  (F)  (E)  (R)



65

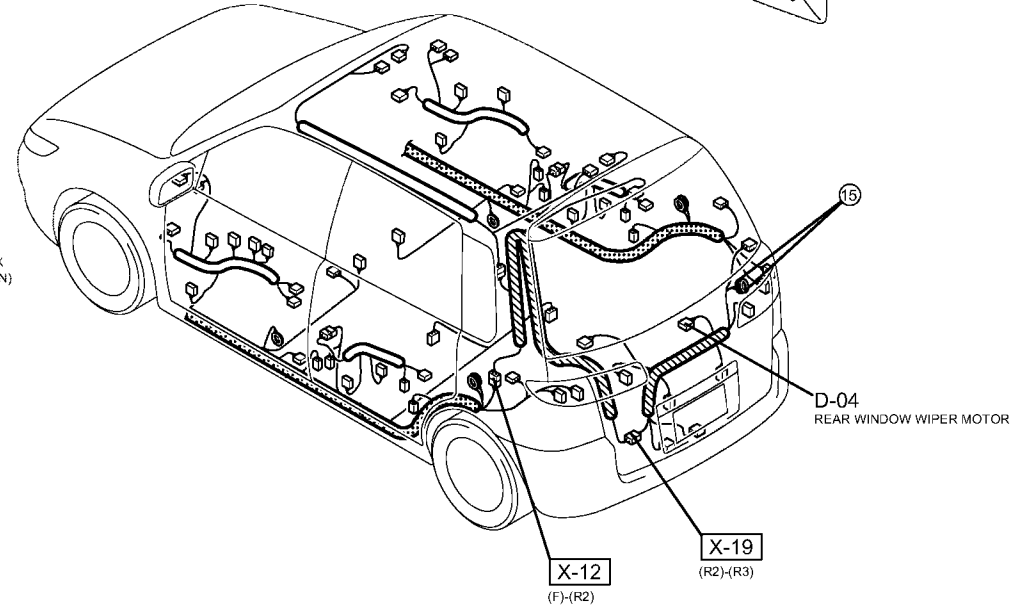
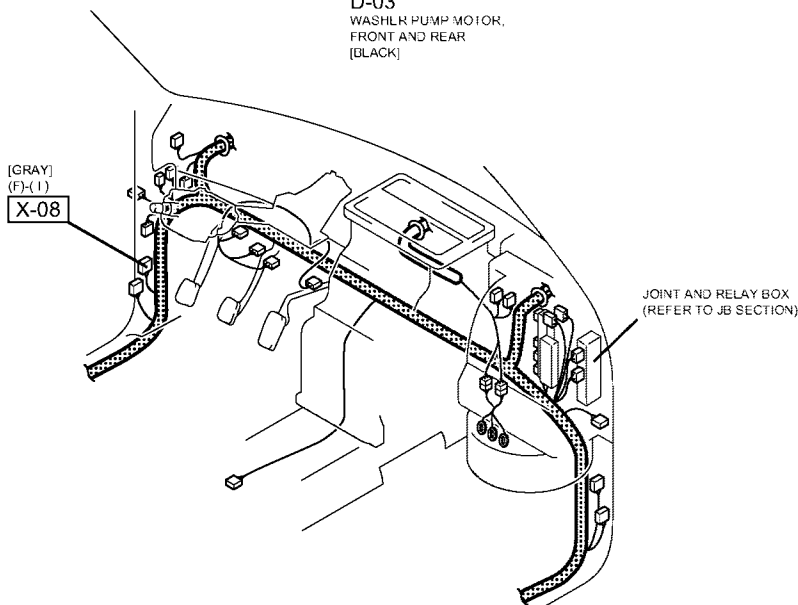
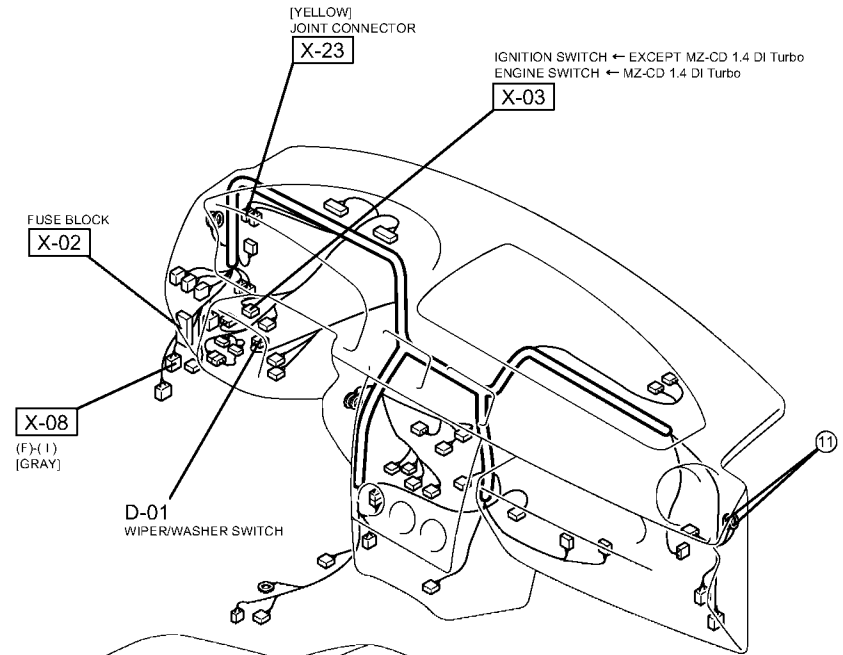
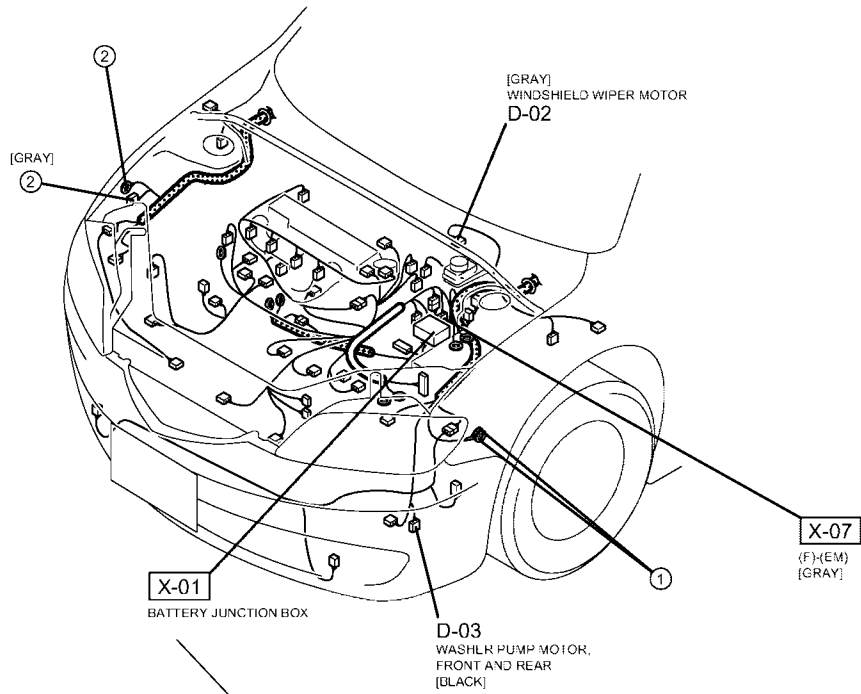
WINDSHIELD WIPER AND WASHER

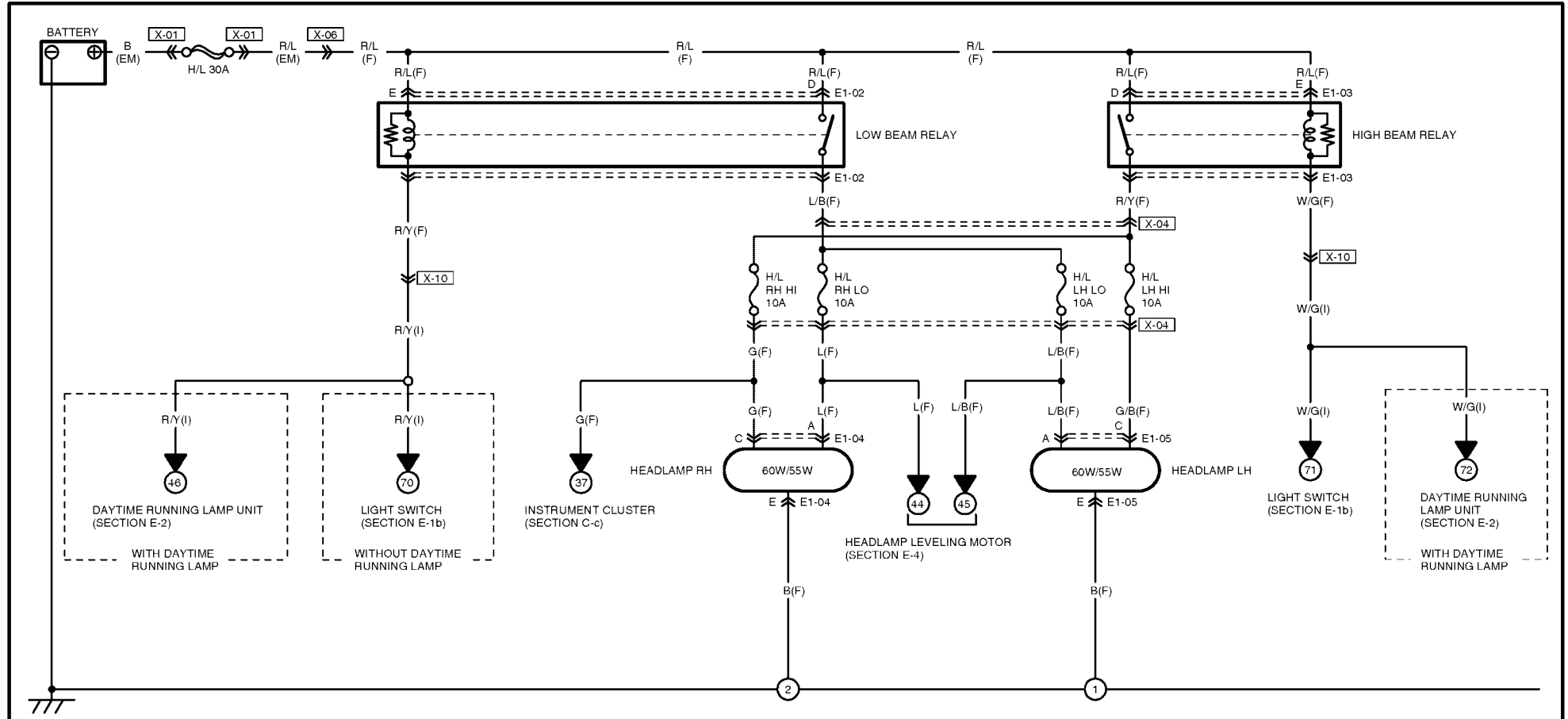
D



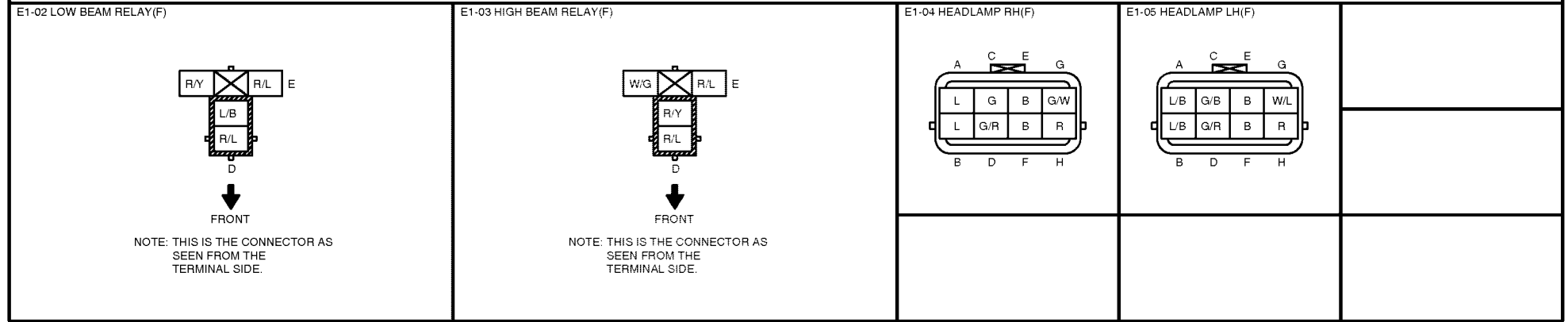
<p>D-01 WIPER/WASHER SWITCH(I)</p>	<p>D-02 WINDSHIELD WIPER MOTOR(F)</p>	<p>D-03 WASHER PUMP MOTOR, FRONT AND REAR(F)</p>	<p>D-04 REAR WINDOW WIPER MOTOR (R3)</p>		
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HARNES SYMBOL:  (F)  (E)  (R)



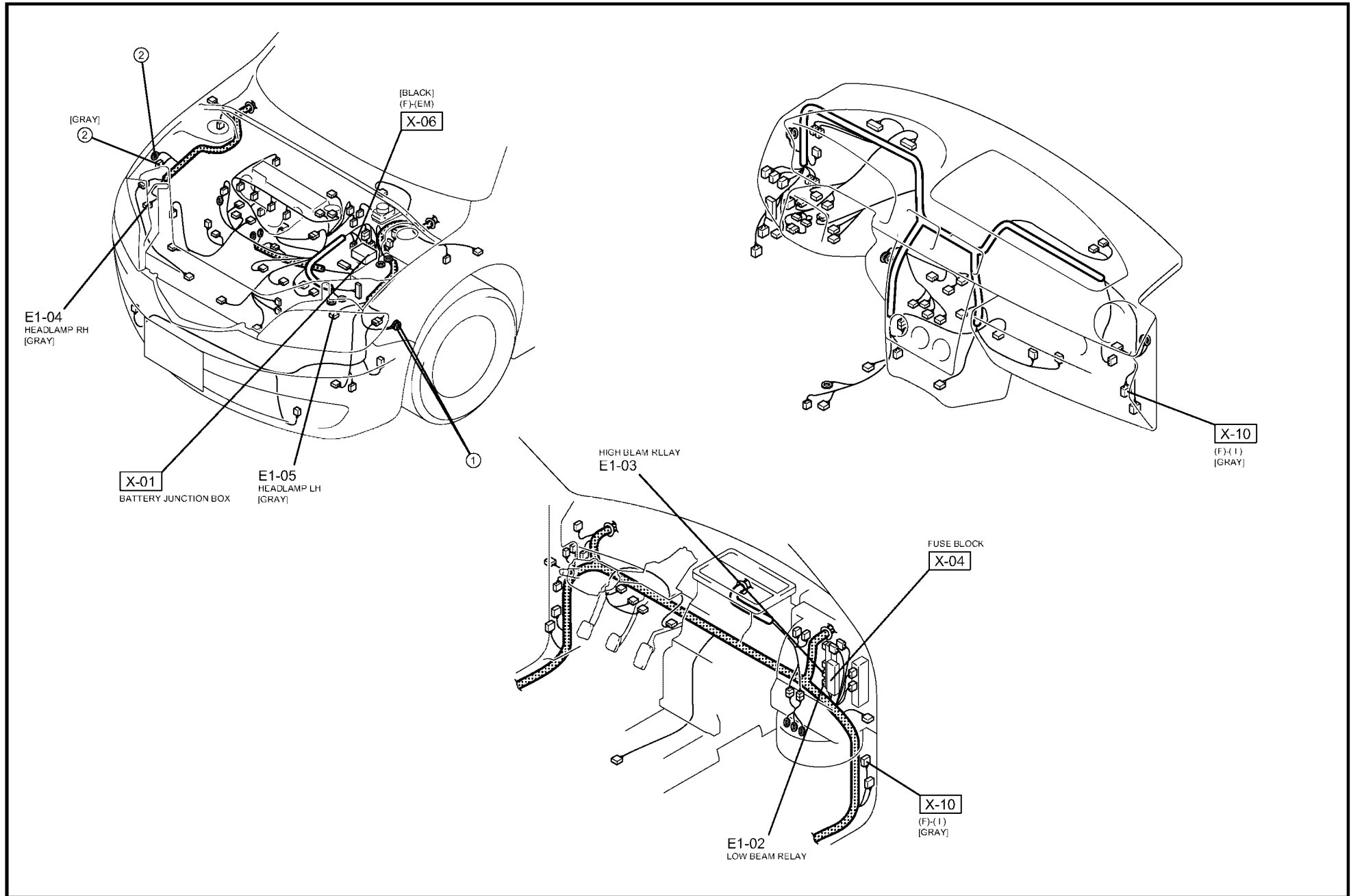


89



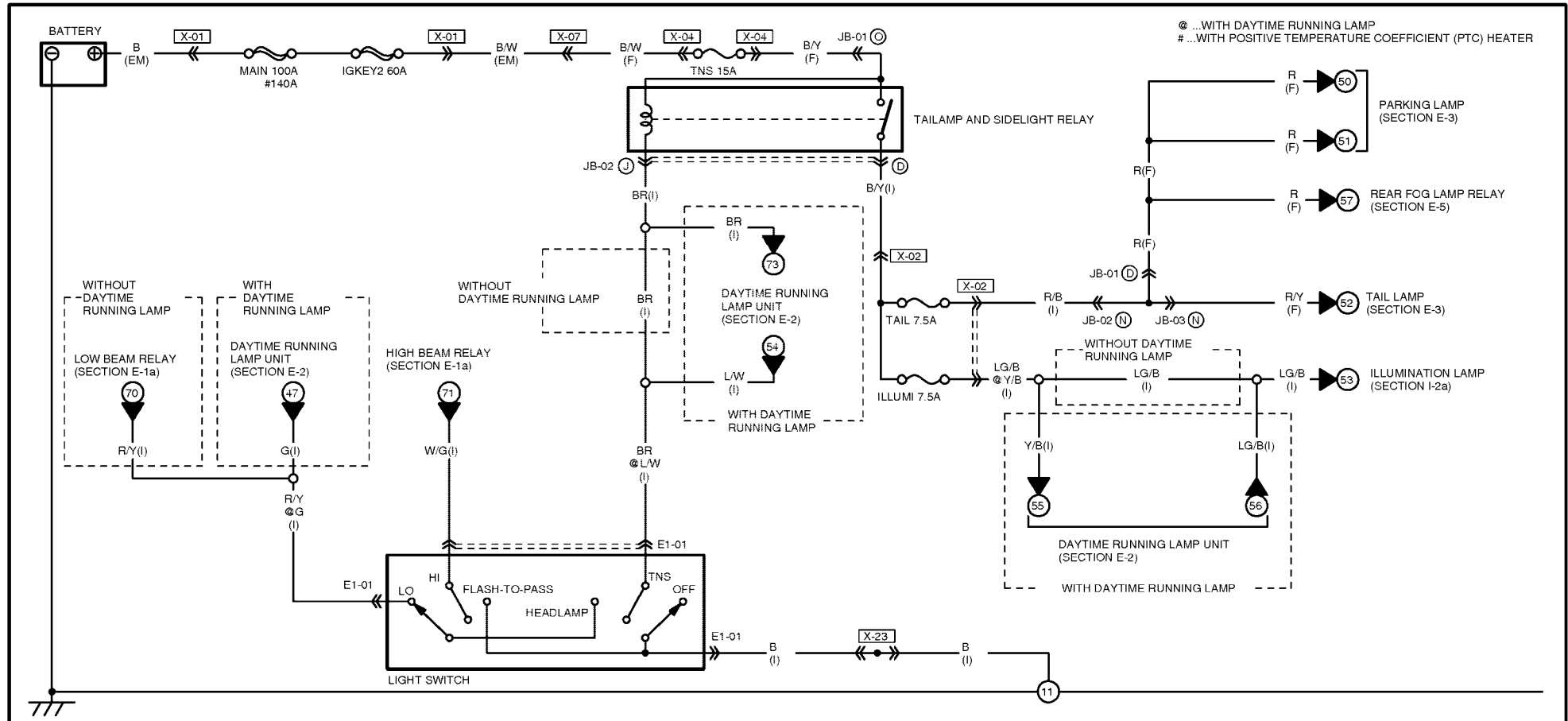
HARNES SYMBOL: [Grid] (F) [Diamond] (E) [Diagonal] (R)

69



HEADLAMP

E-1b

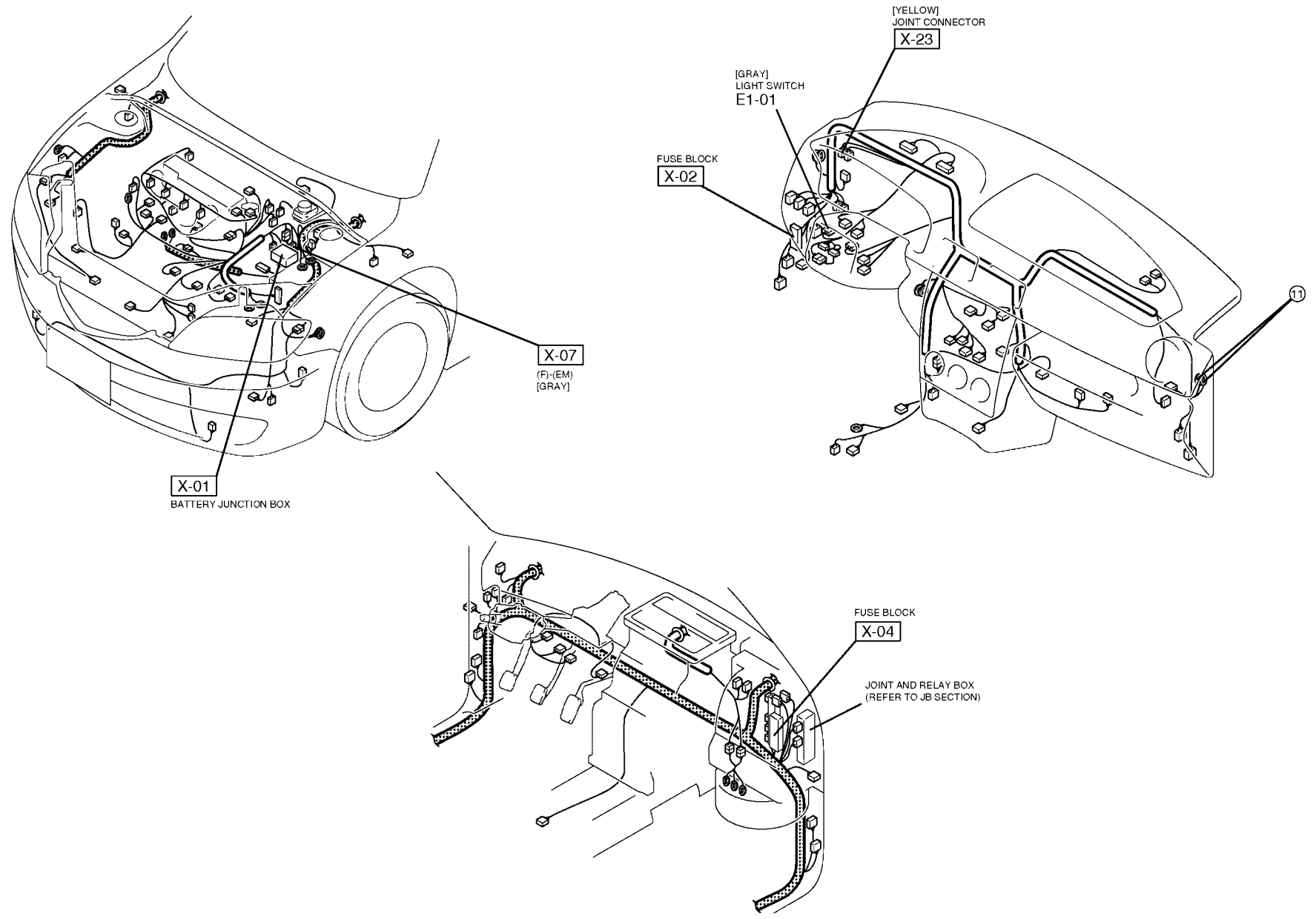


70

E1-01 LIGHT SWITCH(I)

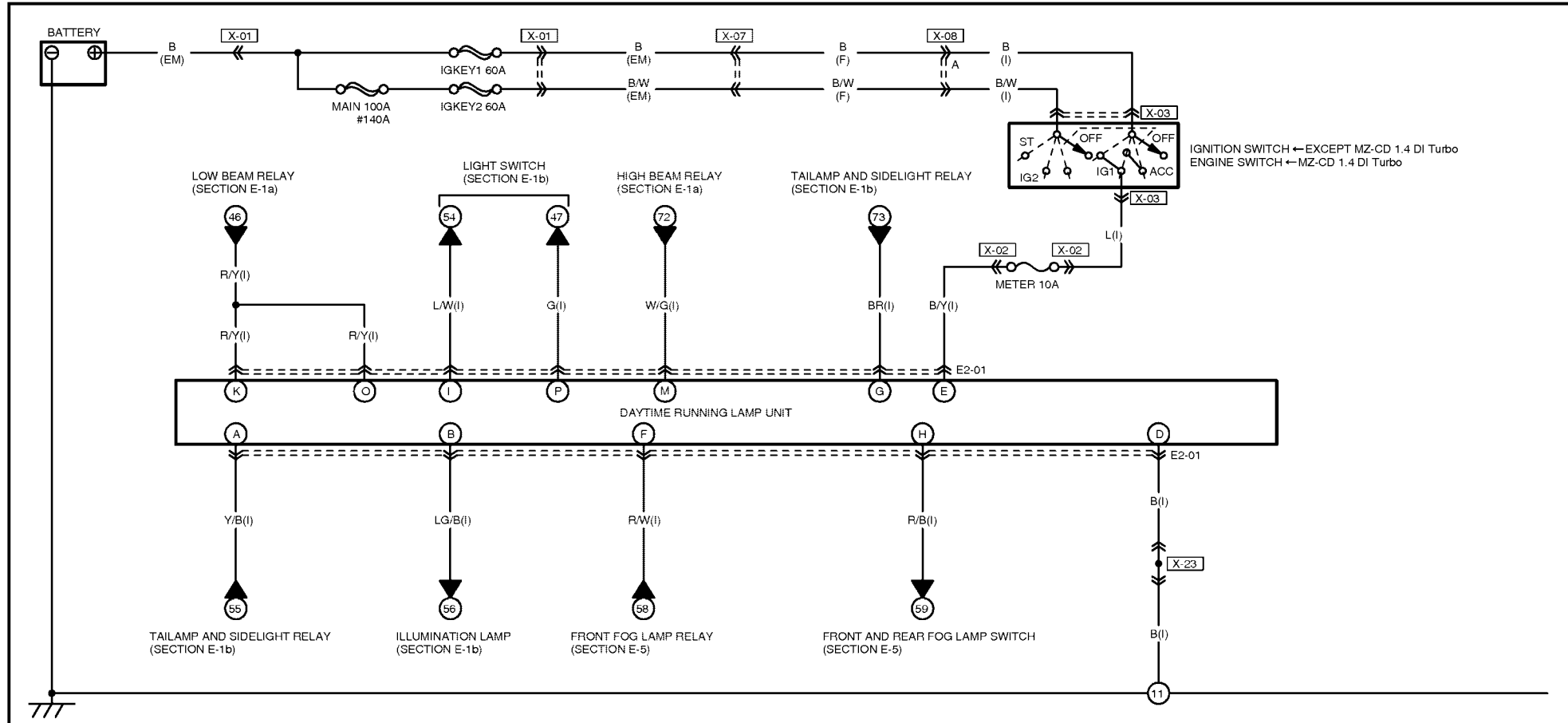
B/Y	L/Y	W/B	L/R	RAW @ R/B
R/Y @ G	W/G	*	BR @ L/W	B

HARNES SYMBOL:  (F)  (E)  (R)



71

DAYTIME RUNNING LAMP

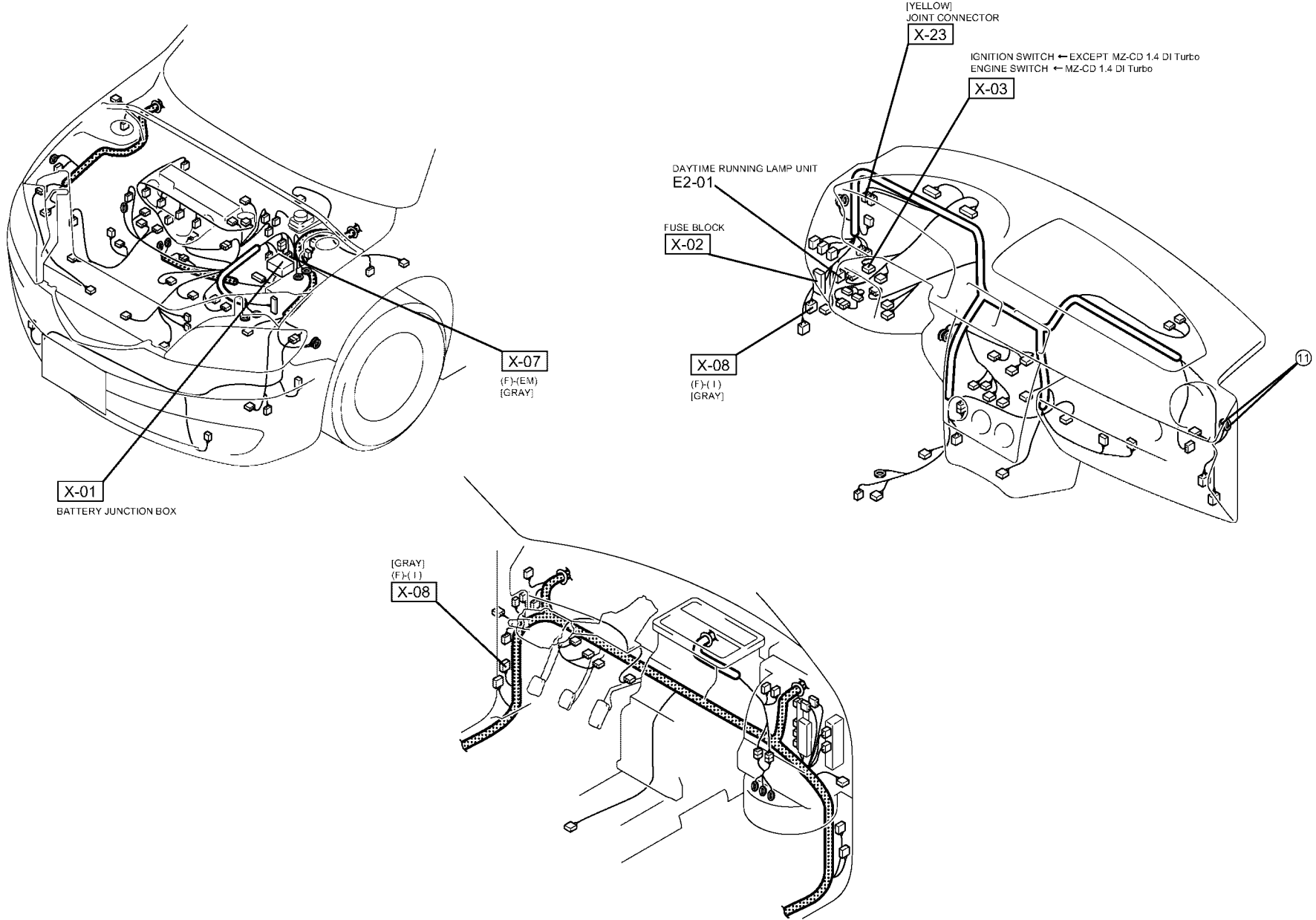


72

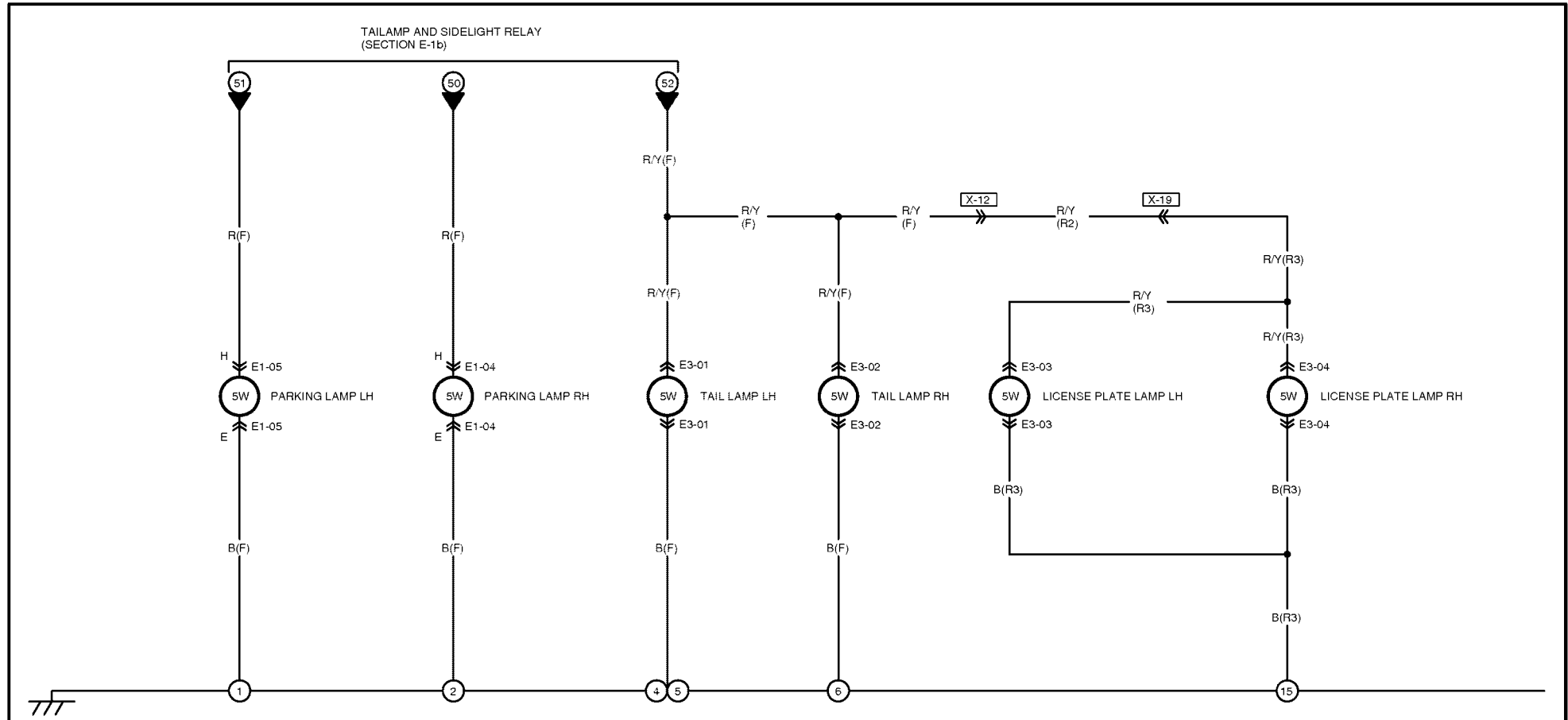
E2-01 DAYTIME RUNNING LAMP UNIT(I)

O	M	K	I	G	E	C	A
R/Y	W/G	R/Y	L/W	BR	B/Y	*	Y/B
G	*	*	*	R/B	R/W	B	LG/B
P	N	L	J	H	F	D	B

HARNES SYMBOL:  (F)  (E)  (R)



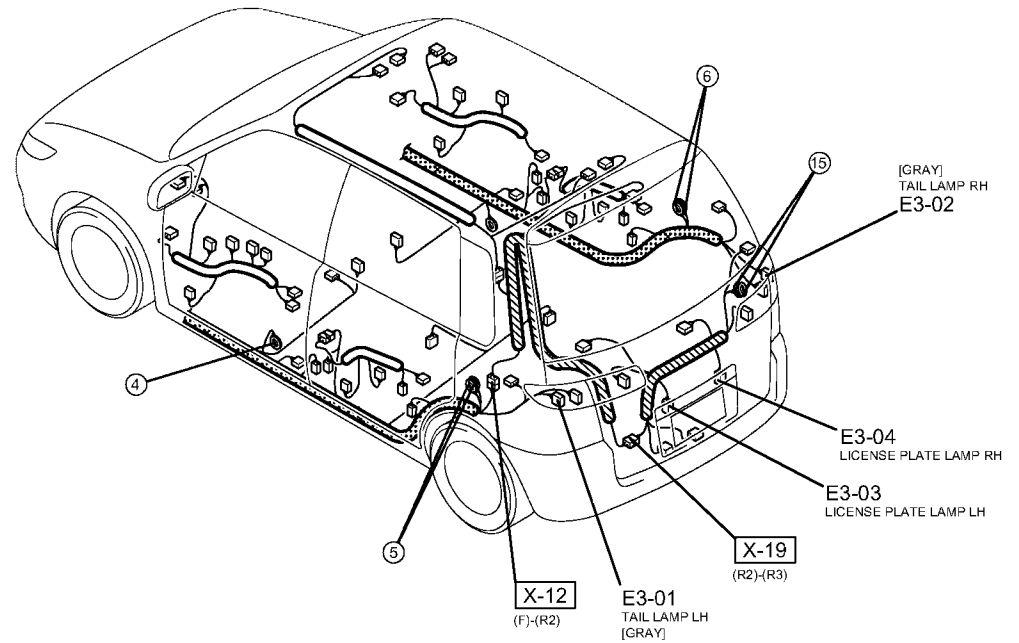
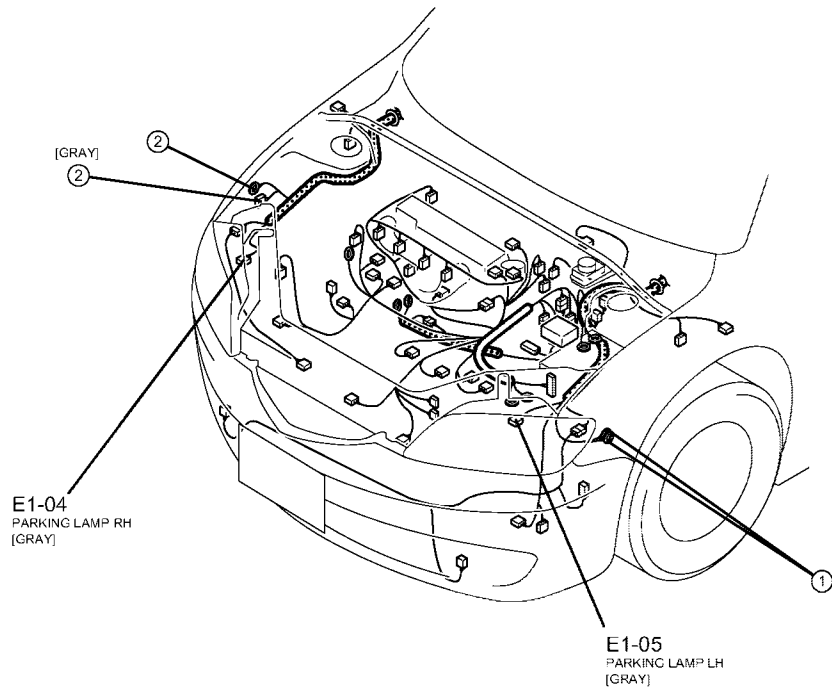
73



<p>E3-01 TAIL LAMP LH(F)</p>	<p>E3-02 TAIL LAMP RH(F)</p>	<p>E1-04 PARKING LAMP RH(F)</p>		<p>E1-05 PARKING LAMP LH(F)</p>	
<p>E3-03 LICENSE PLATE LAMP LH(R3)</p>	<p>E3-04 LICENSE PLATE LAMP RH(R3)</p>				

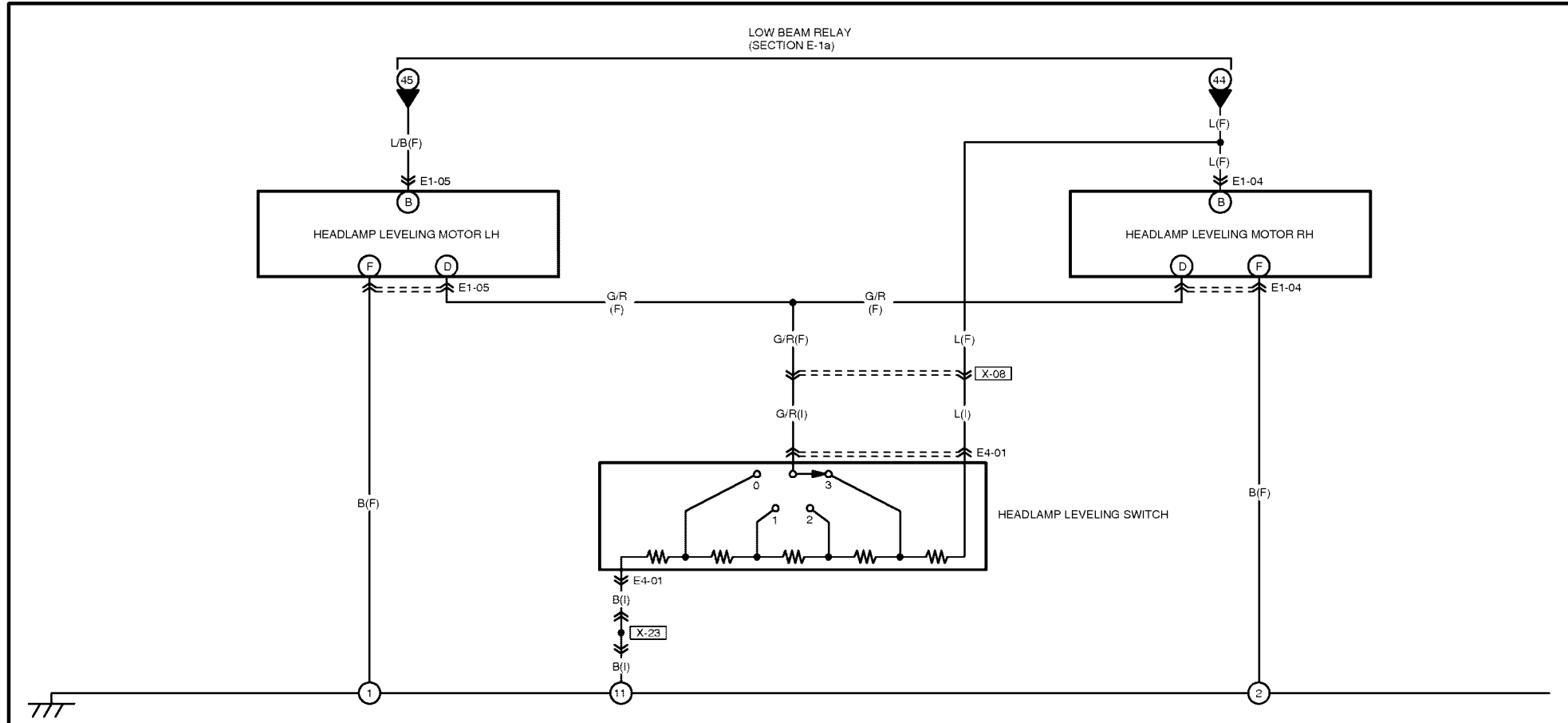
74

HARNES SYMBOL:  (F)  (E)  (R)



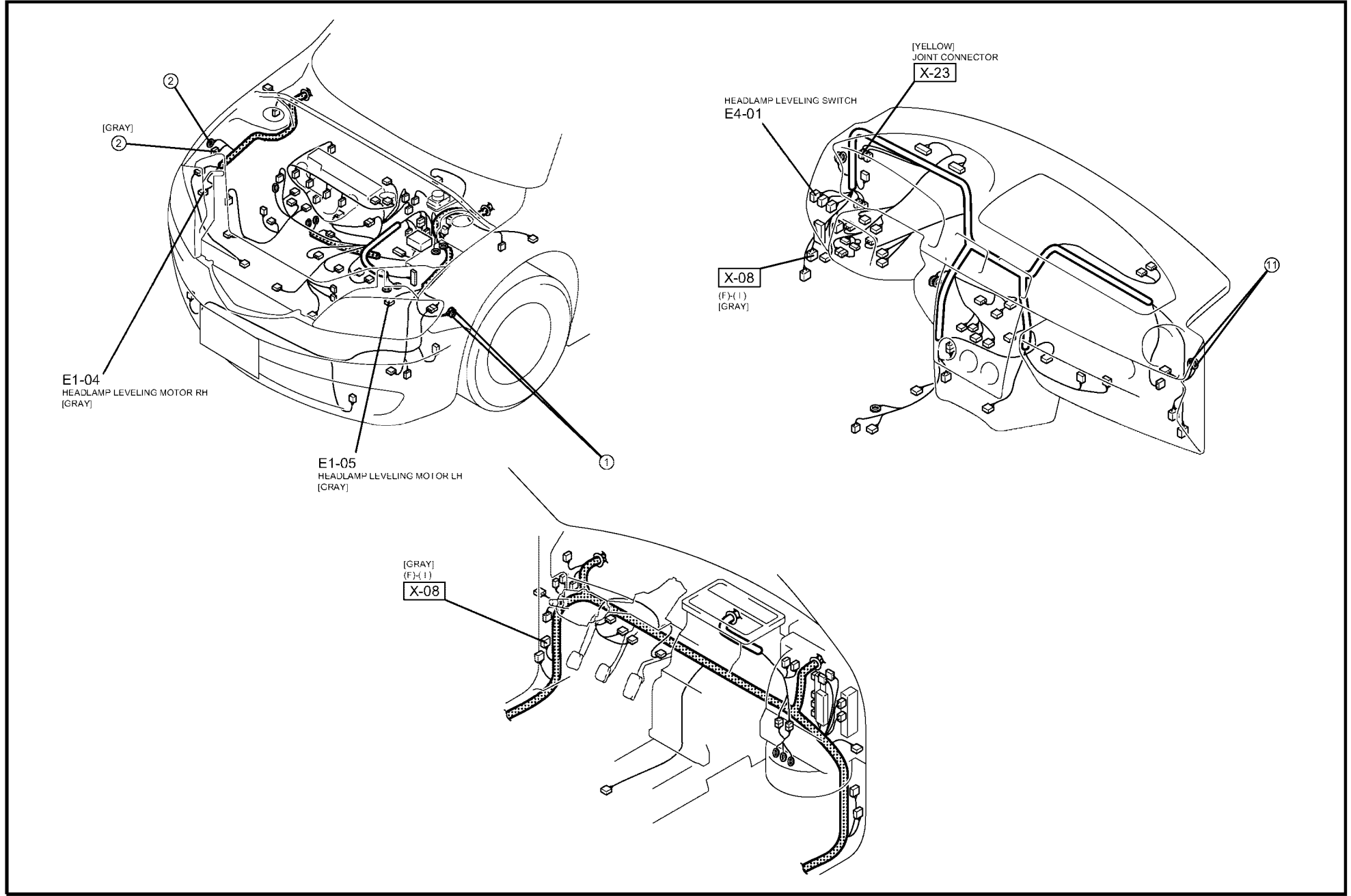
75

76



<p>E4-01 HEADLAMP LEVELING SWITCH(I)</p>	<p>E1-04 HEADLAMP LEVELING MOTOR RH(F)</p>	<p>E1-05 HEADLAMP LEVELING MOTOR LH(F)</p>	

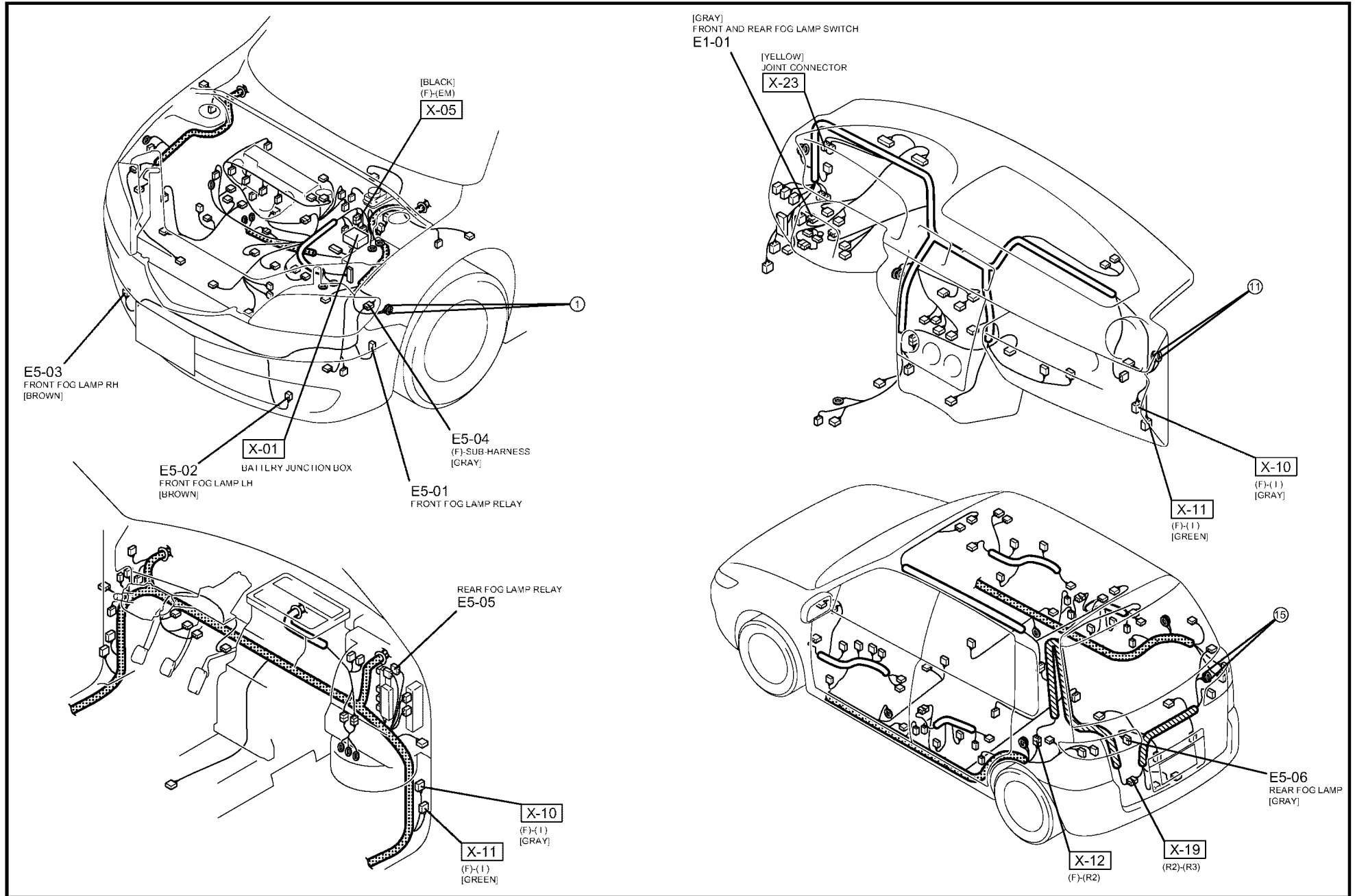
HARNES SYMBOL: [Grid] (F) [Diamond] (E) [Diagonal] (R)



77

HARNES SYMBOL:  (F)  (E)  (R)

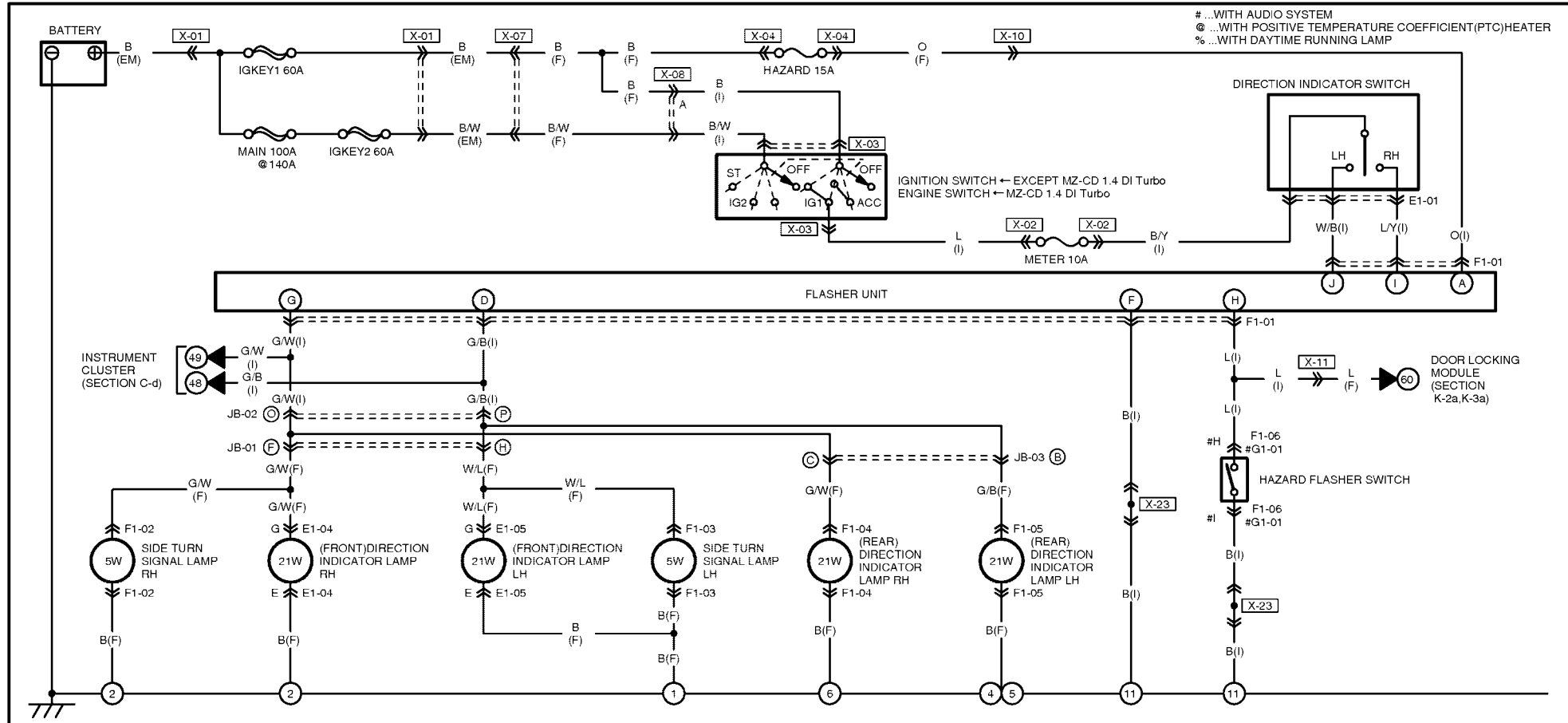
79



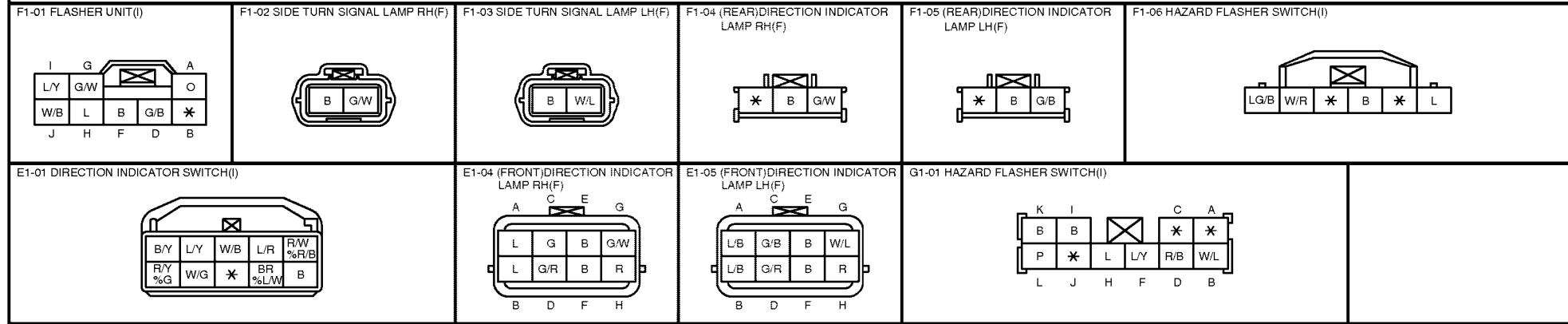
TURN SIGNAL AND HAZARD LAMP

F-1

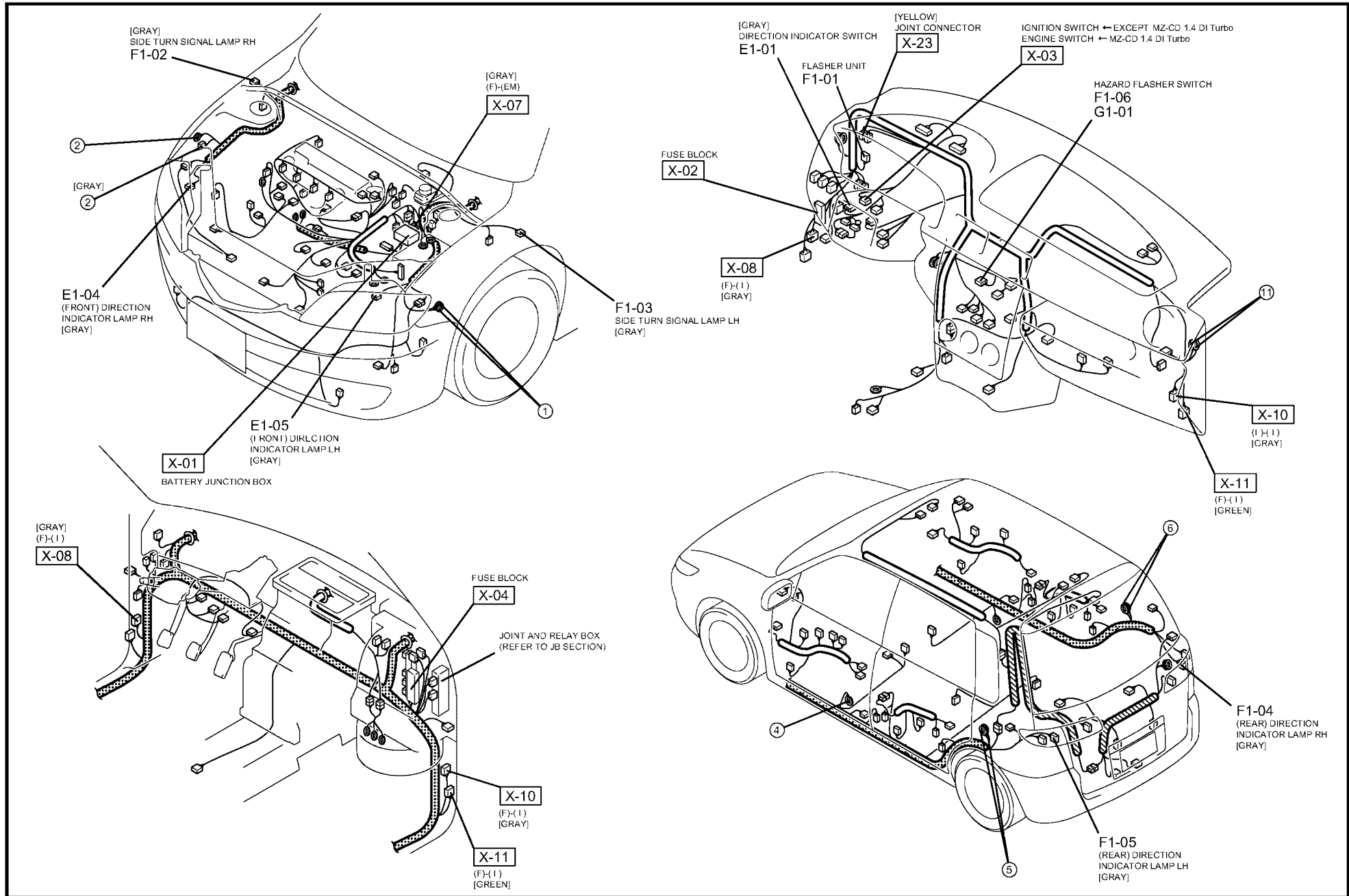
...WITH AUDIO SYSTEM
 @ ...WITH POSITIVE TEMPERATURE COEFFICIENT(PTC)HEATER
 % ...WITH DAYTIME RUNNING LAMP



80

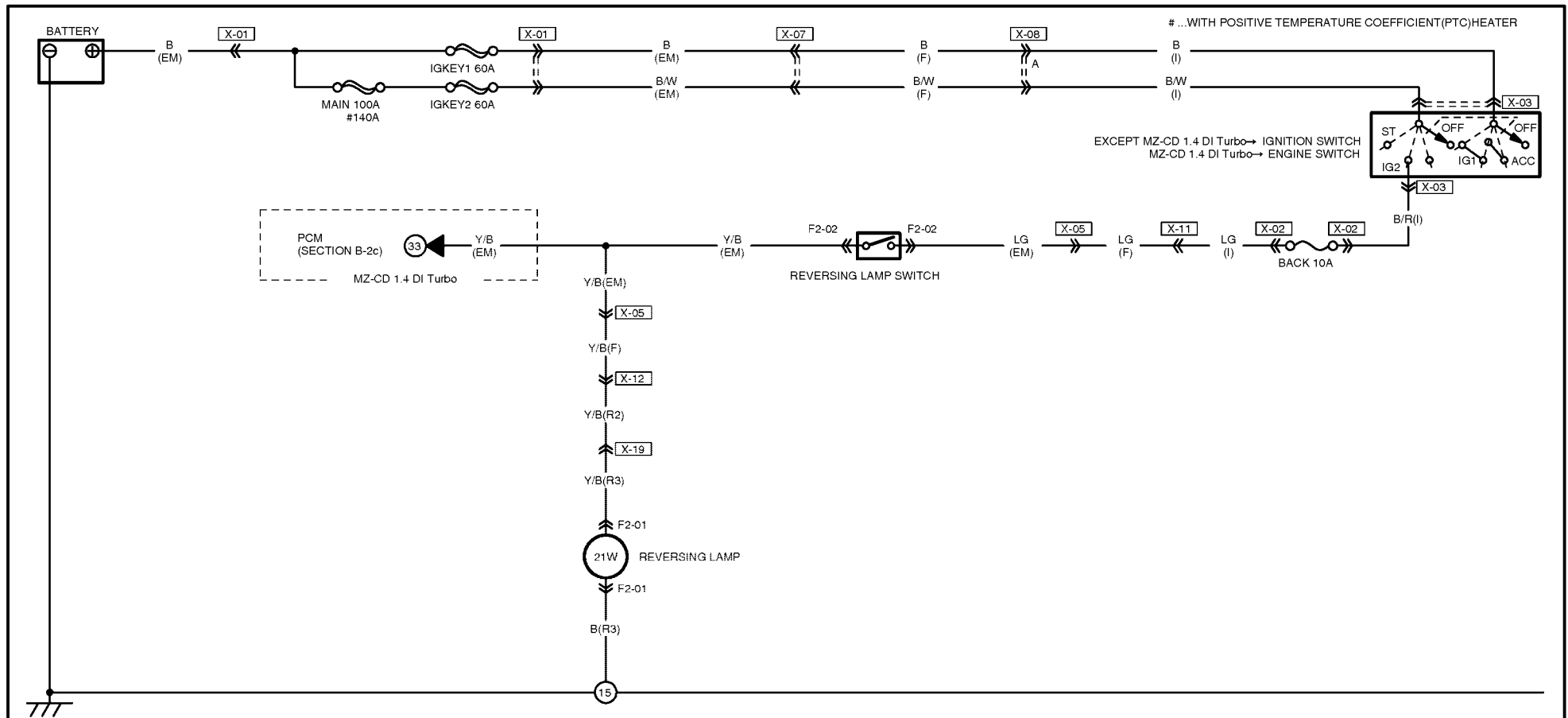


HARNES SYMBOL:  (F)  (E)  (R)

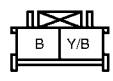
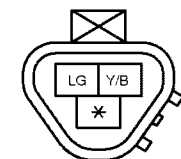


81

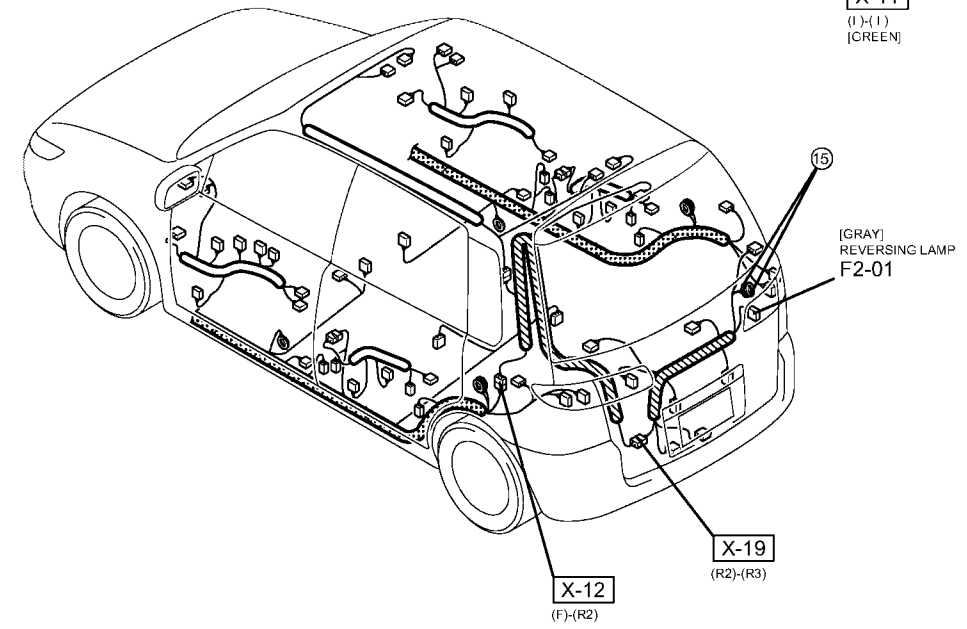
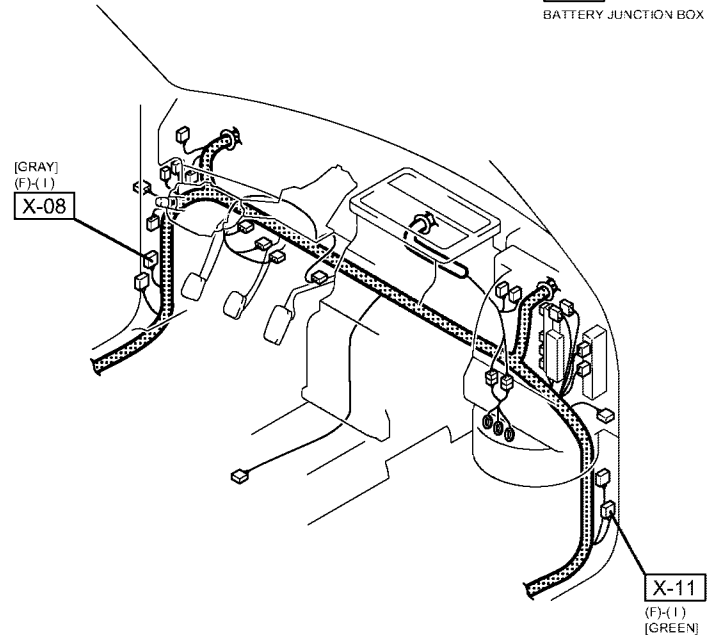
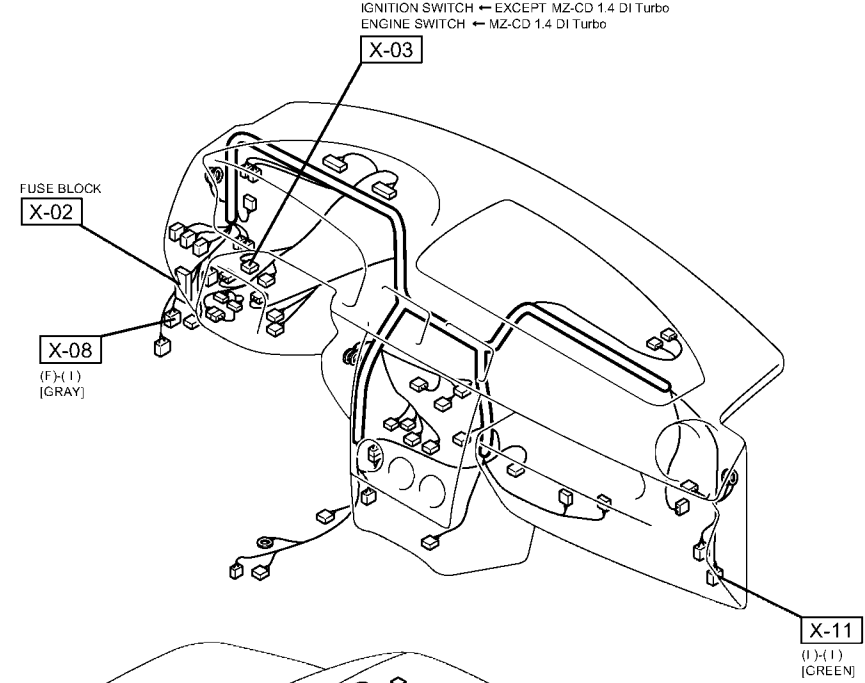
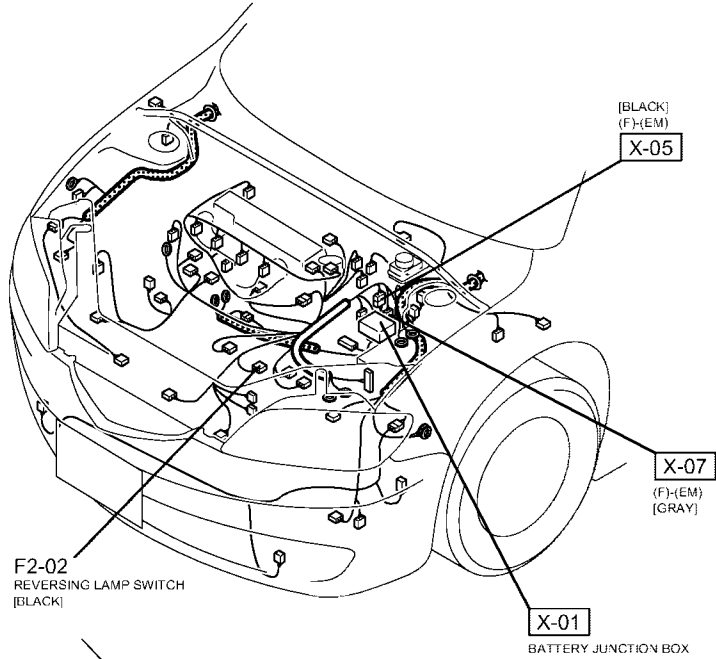
REVERSING LAMP



82

<p>F2-01 REVERSING LAMP(R3)</p> 	<p>F2-02 REVERSING LAMP SWITCH(EM)</p> 				

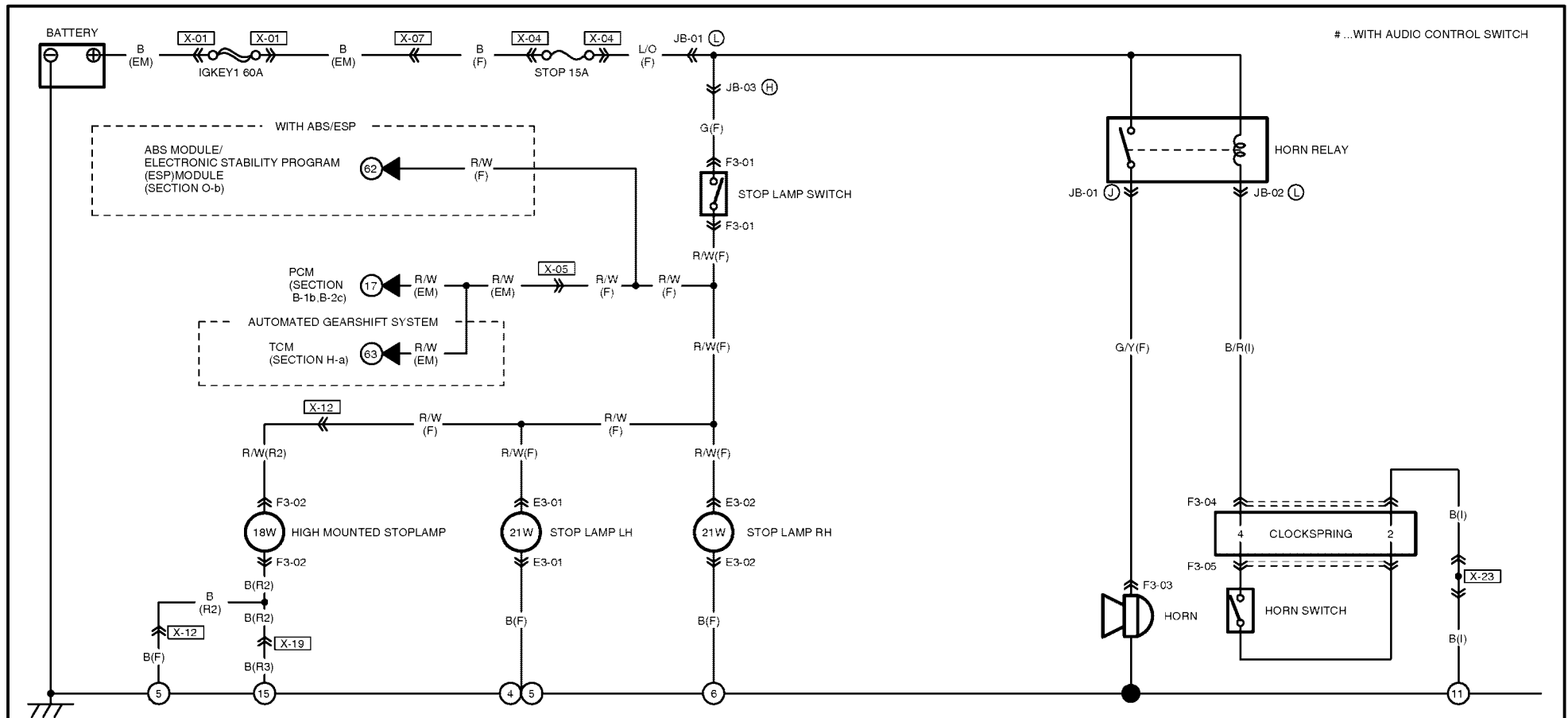
HARNESS SYMBOL:  (F)  (E)  (R)



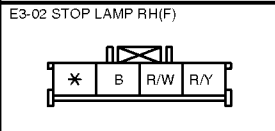
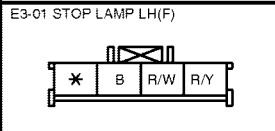
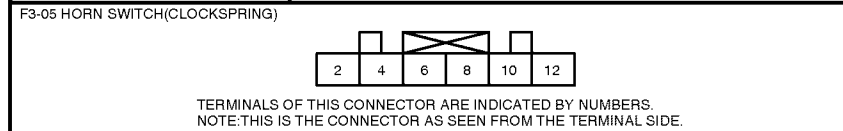
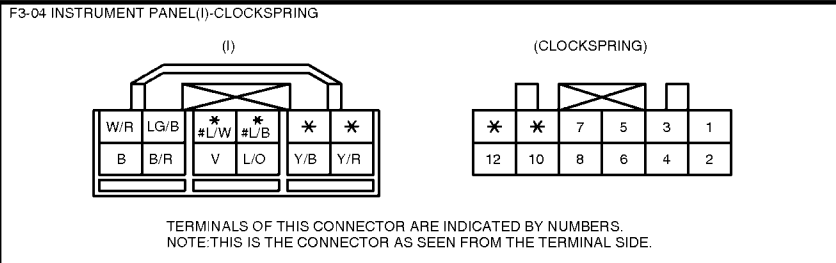
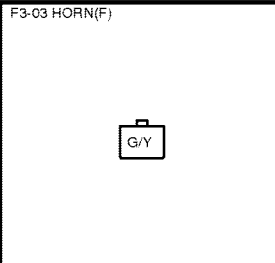
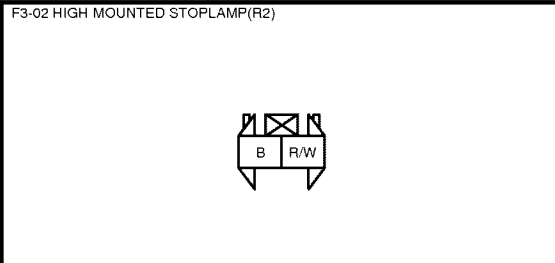
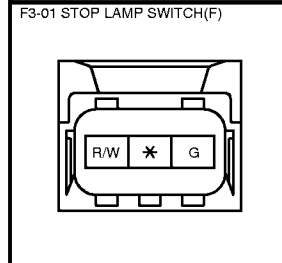
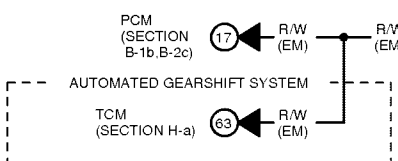
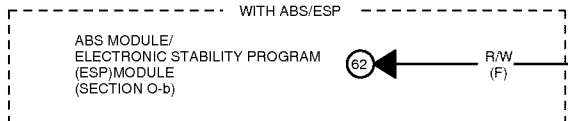
83

HIGH MOUNTED STOPLAMP / HORN / STOP LAMP

F-3



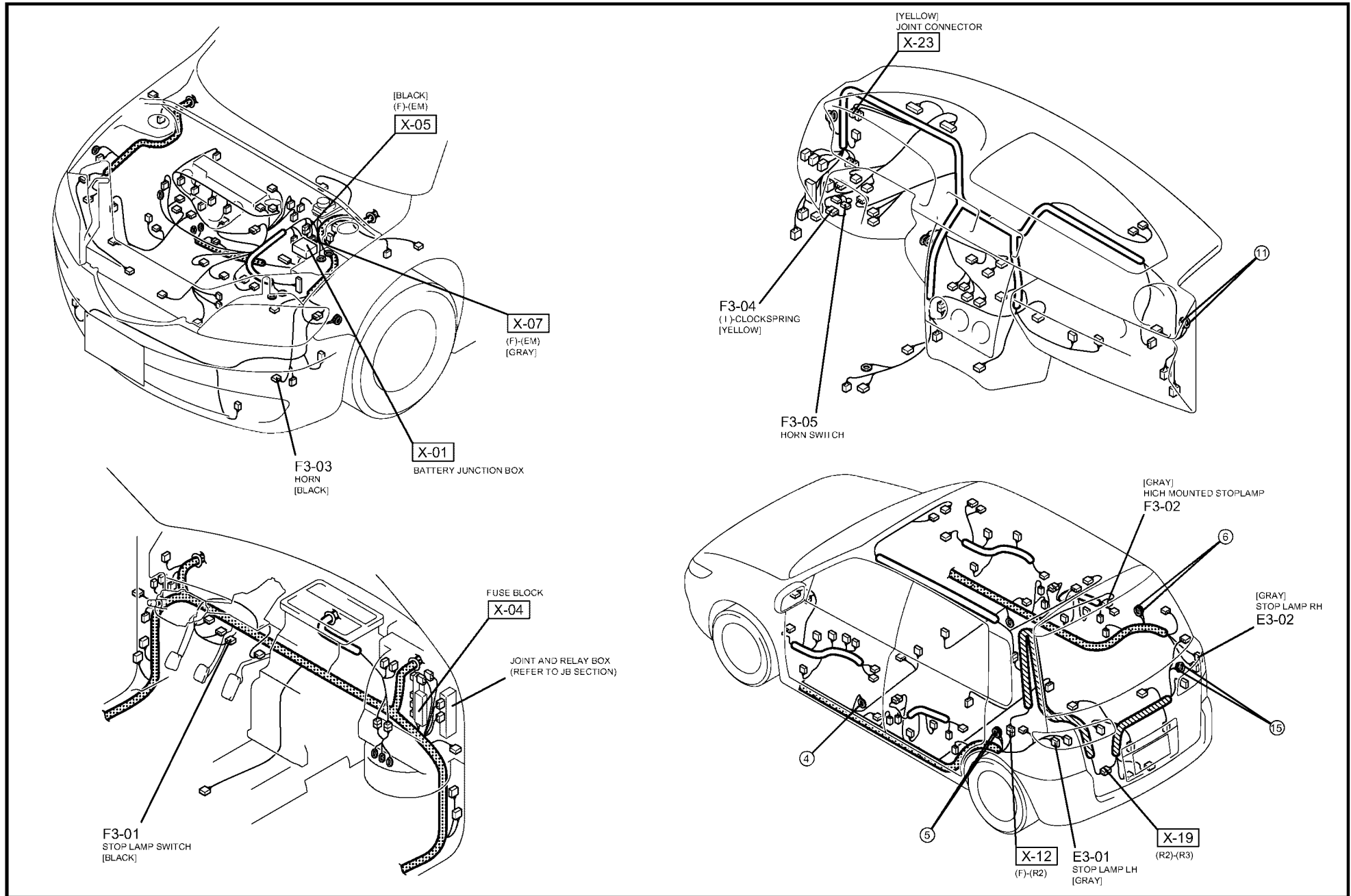
...WITH AUDIO CONTROL SWITCH



84

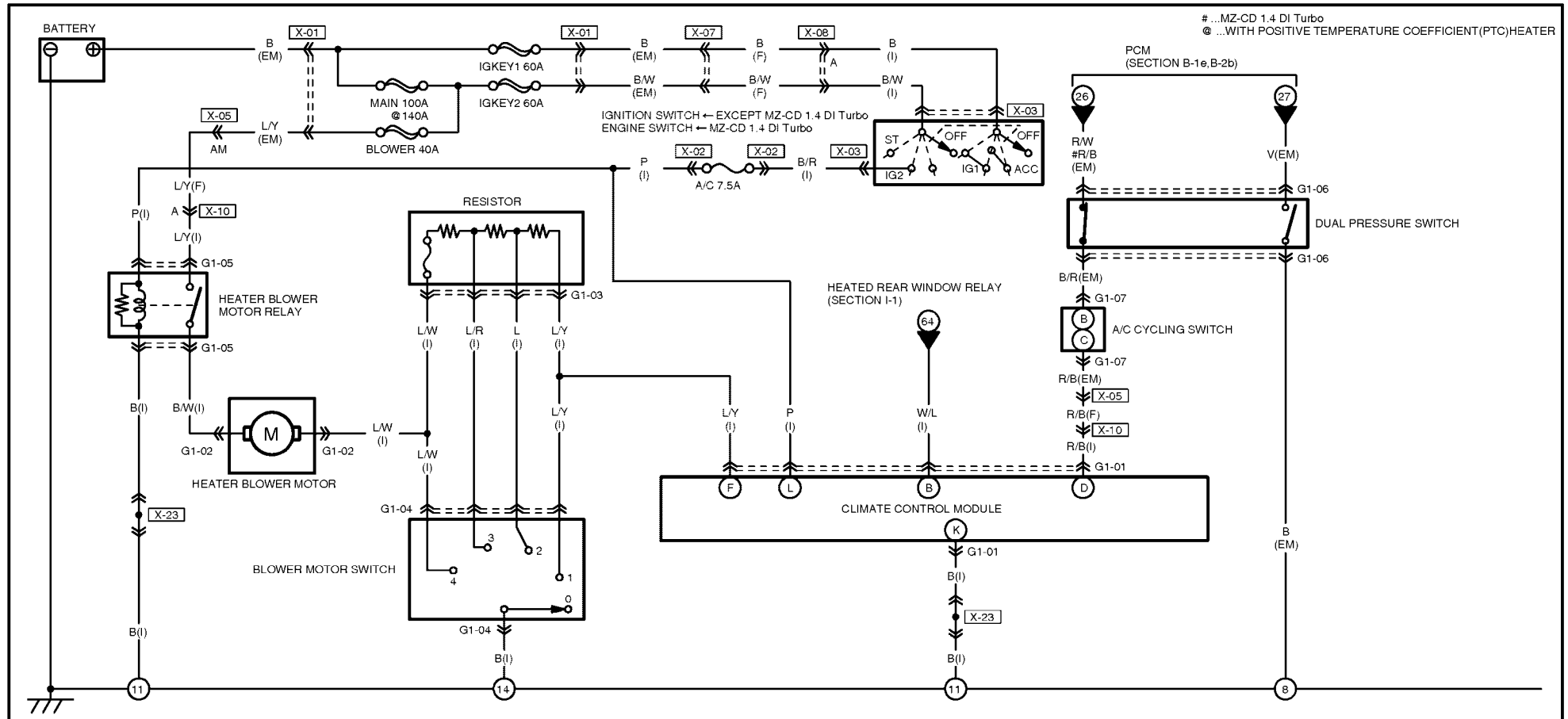
HARNESS SYMBOL:  (F)  (E)  (R)

85

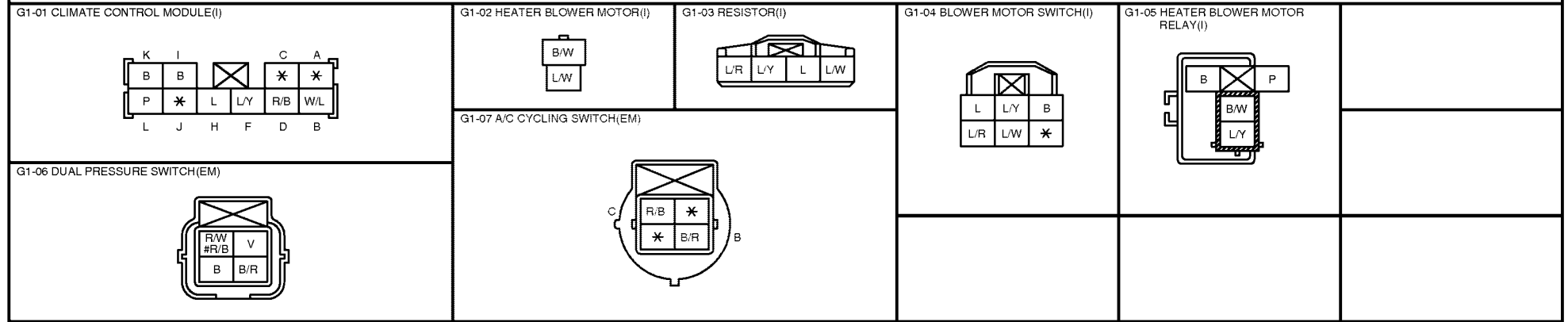


HEATING AND VENTILATION / AIR CONDITIONING (WITH AUDIO SYSTEM)

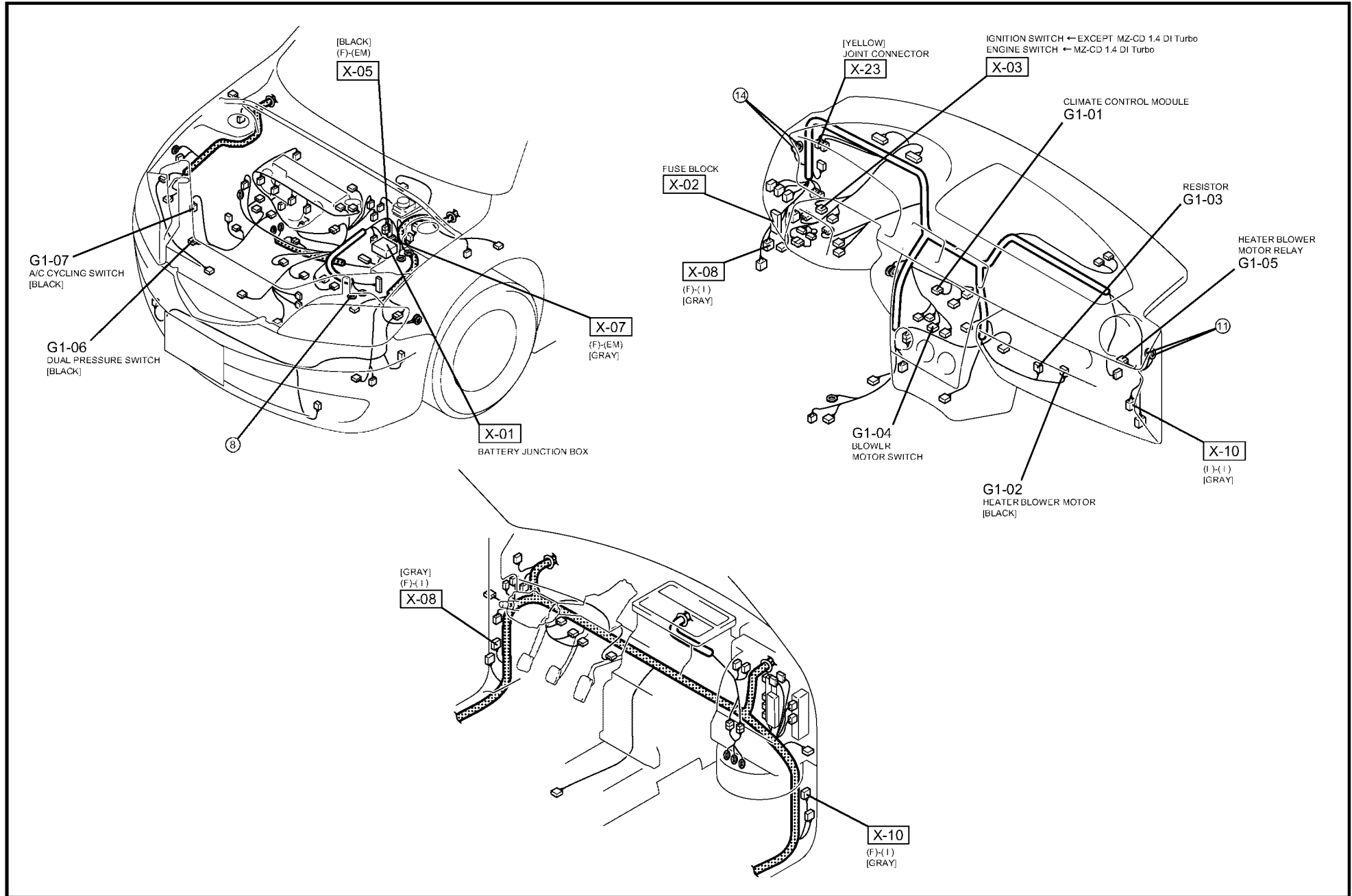
G-1



98

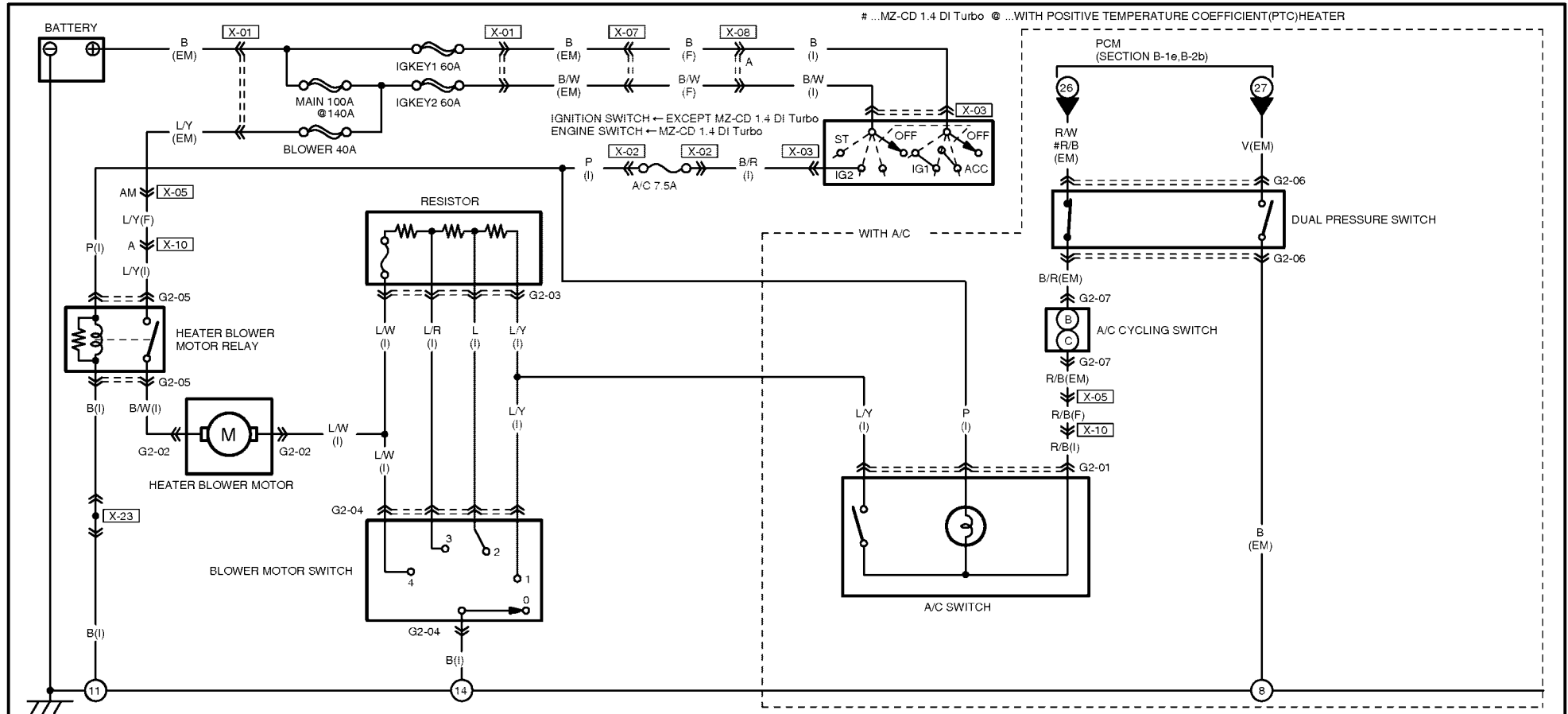


HARNES SYMBOL:  (F)  (E)  (R)



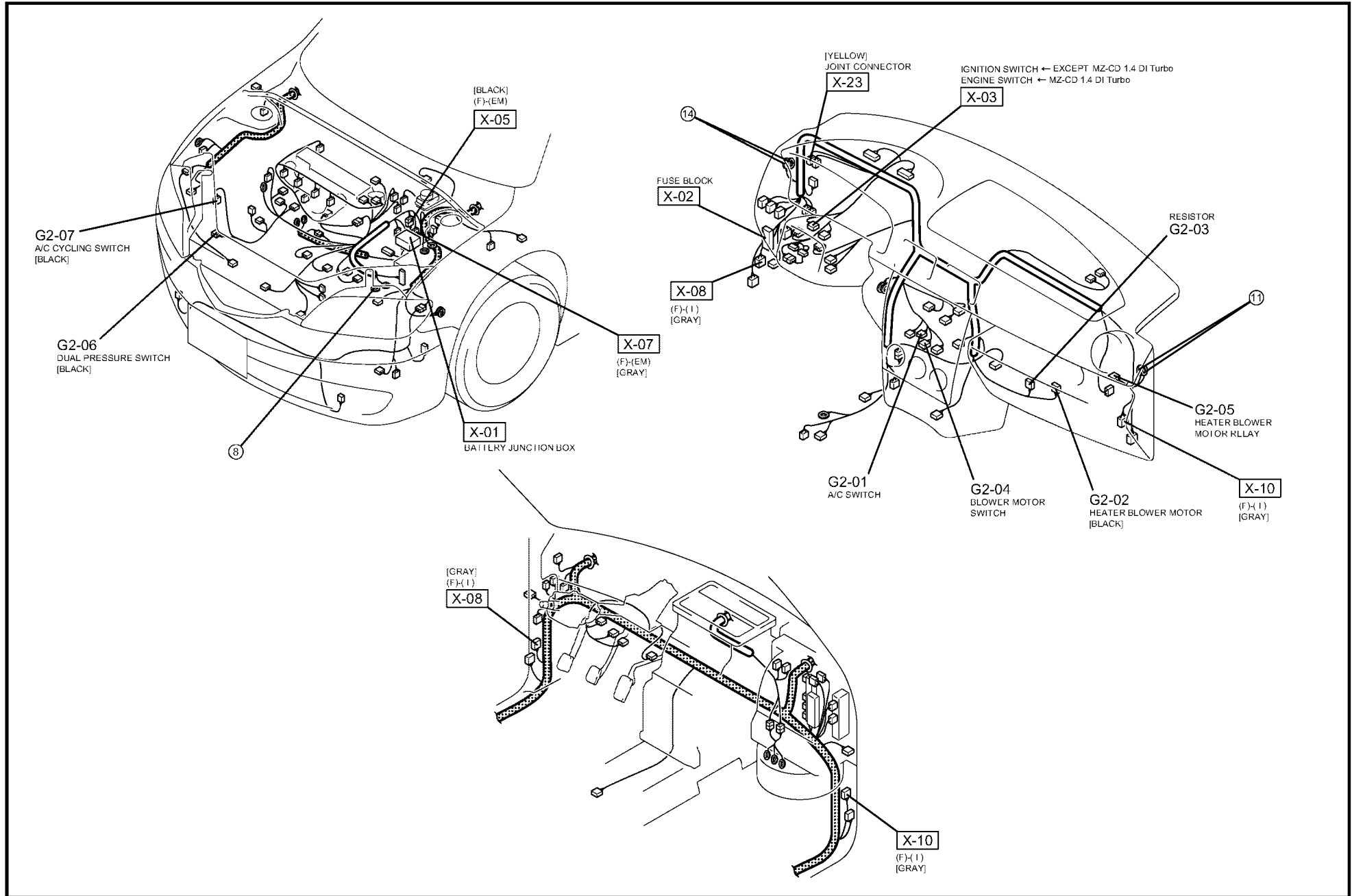
HEATING AND VENTILATION / AIR CONDITIONING (WITHOUT AUDIO SYSTEM)

G-2



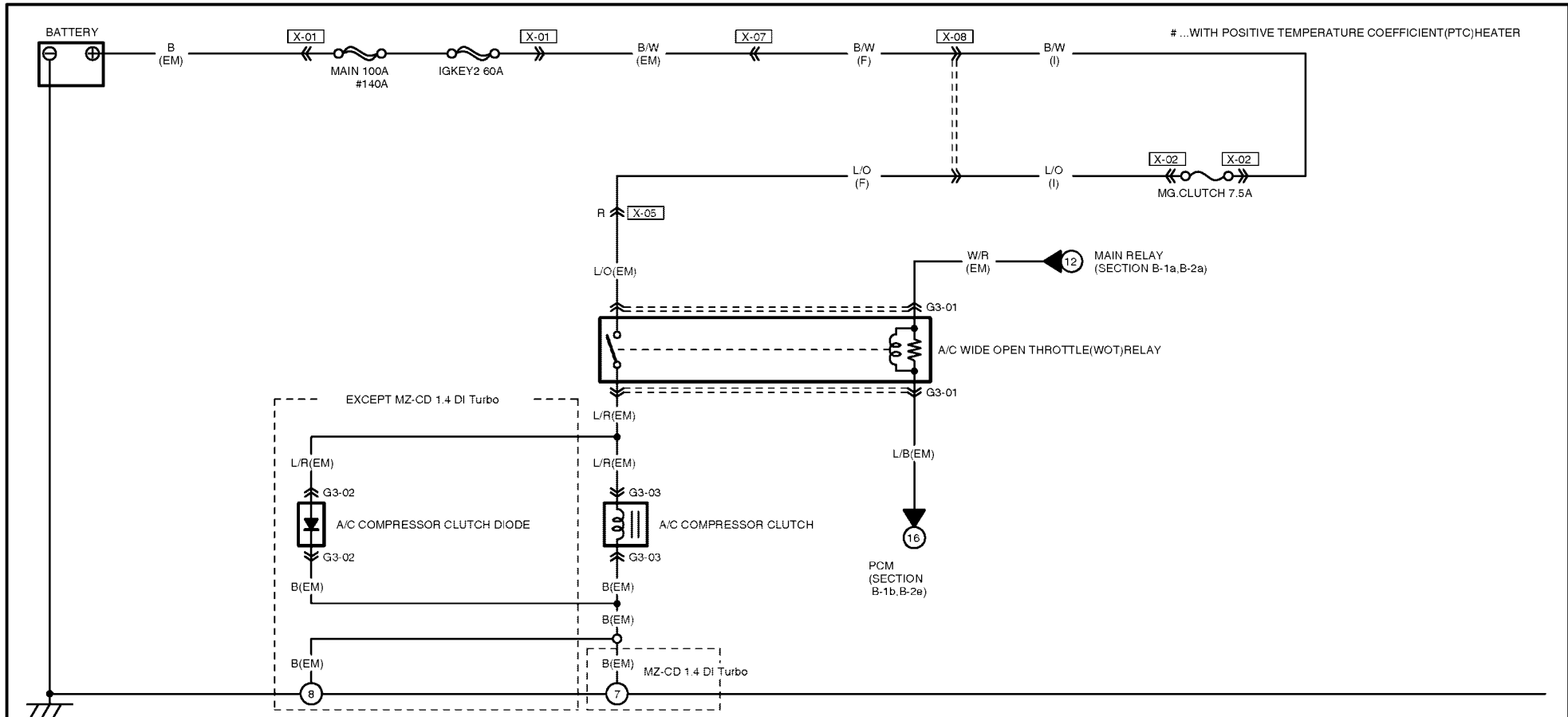
<p>G2-01 A/C SWITCH(I)</p>	<p>G2-02 HEATER BLOWER MOTOR(I)</p>	<p>G2-03 RESISTOR(I)</p>	<p>G2-04 BLOWER MOTOR SWITCH(I)</p>	<p>G2-05 HEATER BLOWER MOTOR RELAY(I)</p>	
<p>G2-06 DUAL PRESSURE SWITCH(EM)</p>	<p>G2-07 A/C CYCLING SWITCH(EM)</p>				

HARNES SYMBOL:  (F)  (E)  (R)

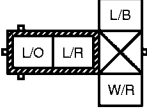
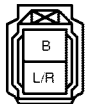
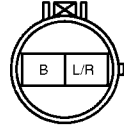


A/C COMPRESSOR CLUTCH CONTROL SYSTEM

G-3



06

<p>G3-01 A/C WIDE OPEN THROTTLE(WOT)RELAY(EM)</p>  <p>FRONT</p> <p>NOTE: THIS IS THE CONNECTOR AS SEEN FROM THE TERMINAL SIDE.</p>	<p>G3-02 A/C COMPRESSOR CLUTCH DIODE(EM)</p> 	<p>G3-03 A/C COMPRESSOR CLUTCH(EM)</p> 				
---	--	--	--	--	--	--

HARNESS SYMBOL:  (F)  (E)  (R)

[EXCEPT MZ-CD 1.4 DI Turbo]

[BLACK]
A/C COMPRESSOR CLUTCH
G3-03

[BLACK]
(F)-(EM)
X-05

[GRAY]
(F)-(EM)
X-07

G3-02
A/C COMPRESSOR
CLUTCH DIODE
[BLACK]

X-01

BATTERY JUNCTION BOX
G3-01
A/C WIDE OPEN THROTTLE (WOT) RELAY

[GRAY]
(F)-(L)
X-08

91

[MZ-CD 1.4 DI Turbo]

[BLACK]
(F)-(EM)
X-05

[GRAY]
(F)-(EM)
X-07

G3-03
A/C COMPRESSOR CLUTCH
[BLACK]

X-01

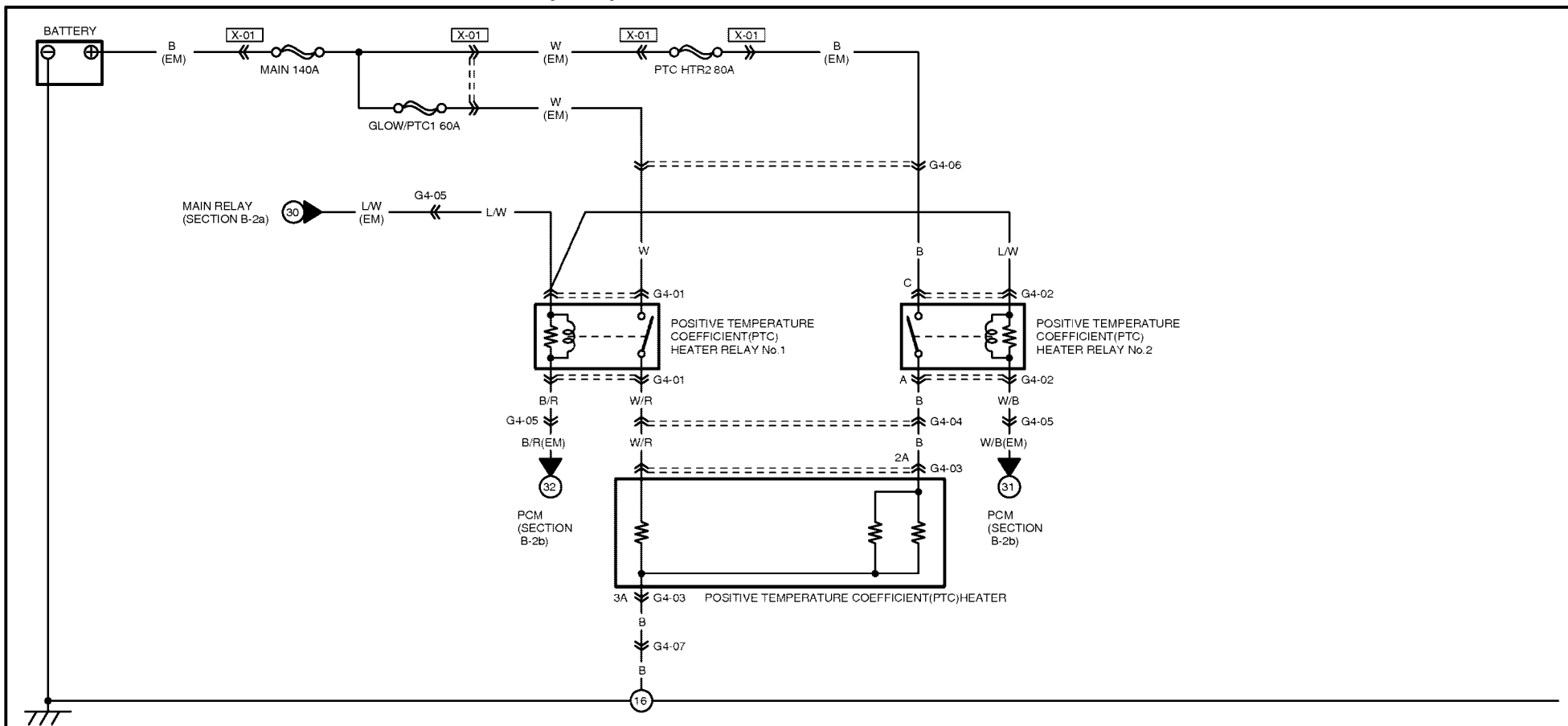
BATTERY JUNCTION BOX
G3-01
A/C WIDE OPEN THROTTLE (WOT) RELAY

FUSE BLOCK
X-02

X-08
(F)-(L)
[GRAY]

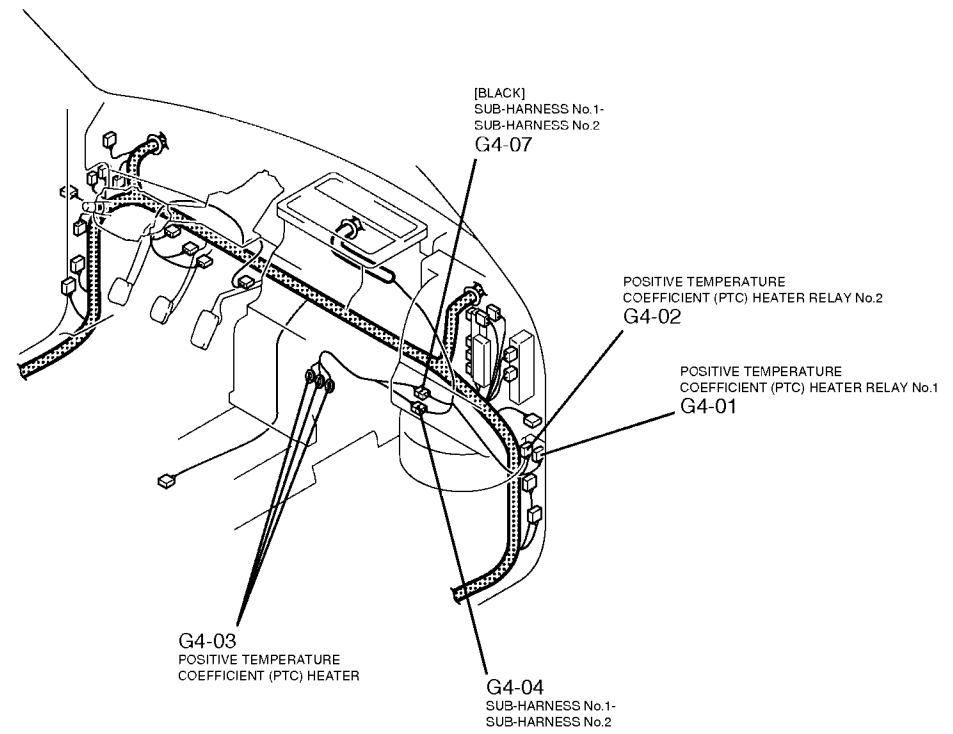
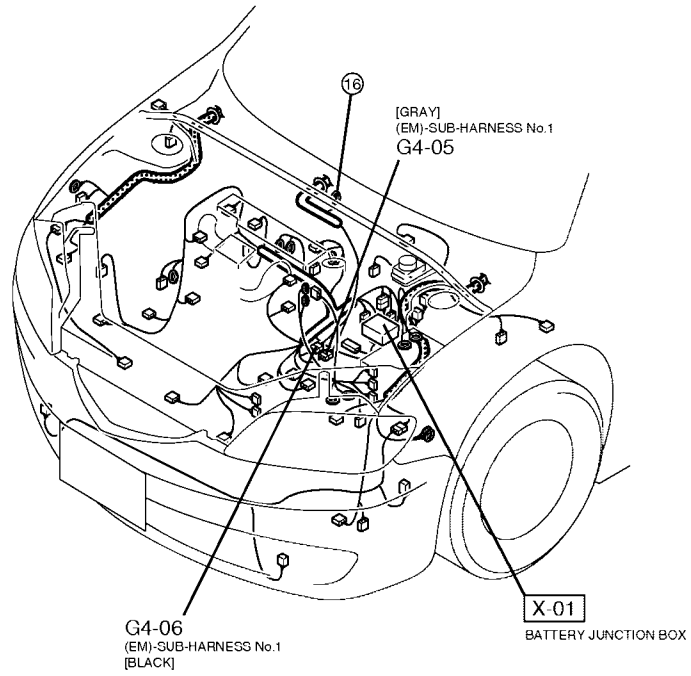
POSITIVE TEMPERATURE COEFFICIENT (PTC) HEATER

G-4



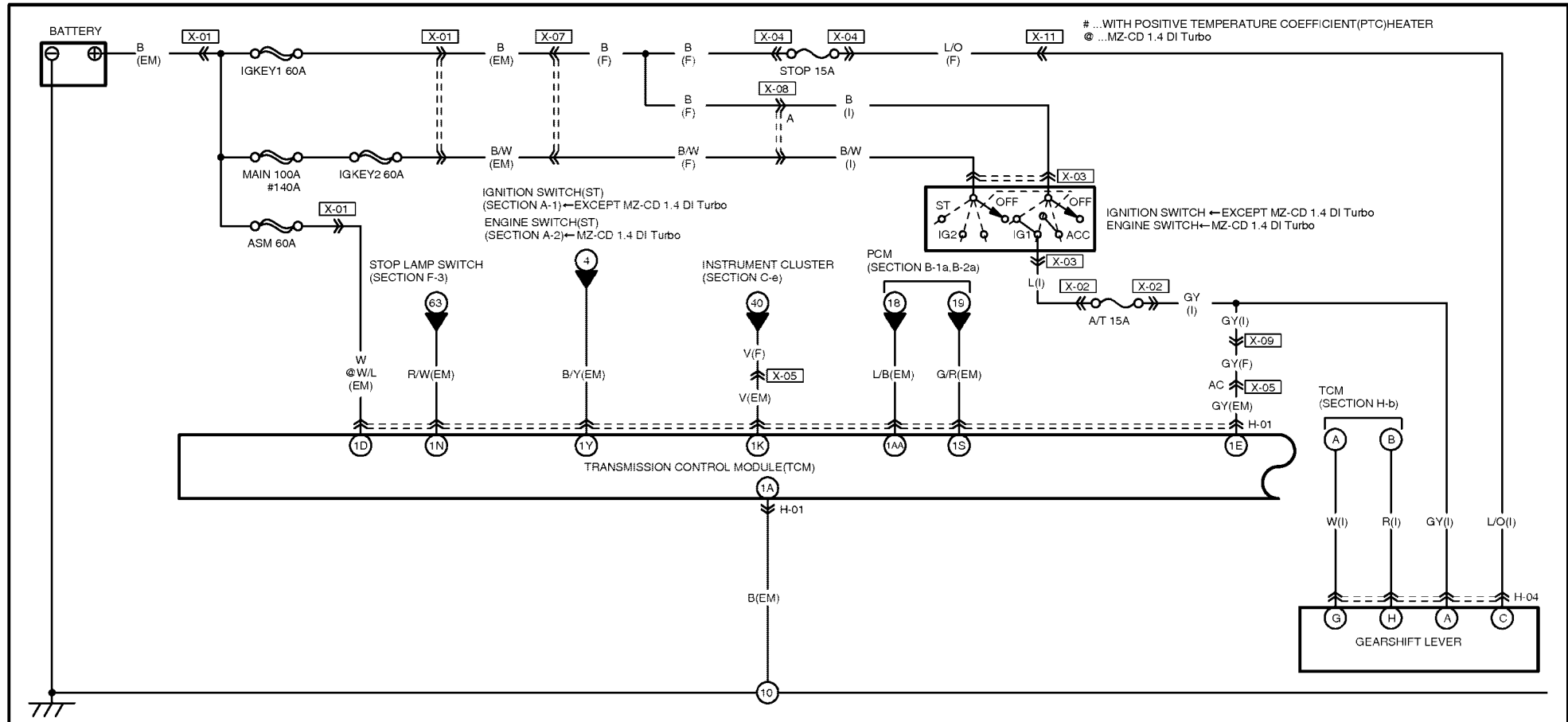
<p>G4-01 POSITIVE TEMPERATURE COEFFICIENT(PTC)HEATER RELAY No.1 (SUB-HARNESS No.1)</p>	<p>G4-02 POSITIVE TEMPERATURE COEFFICIENT(PTC)HEATER RELAY No.2 (SUB-HARNESS No.1)</p>	<p>G4-03 POSITIVE TEMPERATURE COEFFICIENT(PTC)HEATER (SUB-HARNESS No.2)</p>	
<p>G4-05 EMISSION(EM)-SUB-HARNESS No.1 (EM) (SUB-HARNESS No.1)</p>	<p>G4-06 EMISSION(EM)-SUB-HARNESS No.1 (EM) (SUB-HARNESS No.1)</p>	<p>G4-04 SUB-HARNESS No.1-SUB-HARNESS No.2 (SUB-HARNESS No.1) (SUB-HARNESS No.2)</p>	
		<p>G4-07 SUB-HARNESS No.1-SUB-HARNESS No.2 (SUB-HARNESS No.1) (SUB-HARNESS No.2)</p>	

HARNES SYMBOL:  (F)  (E)  (R)



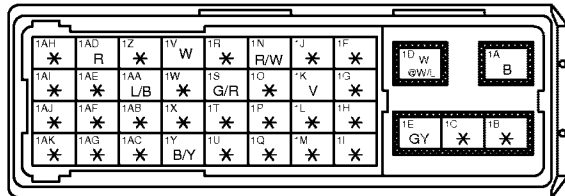
MANUAL TRANSMISSION / TRANSAXLE AUTOMATED GEARSHIFT SYSTEM

H-a

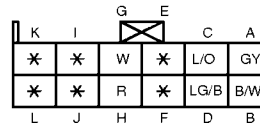


94

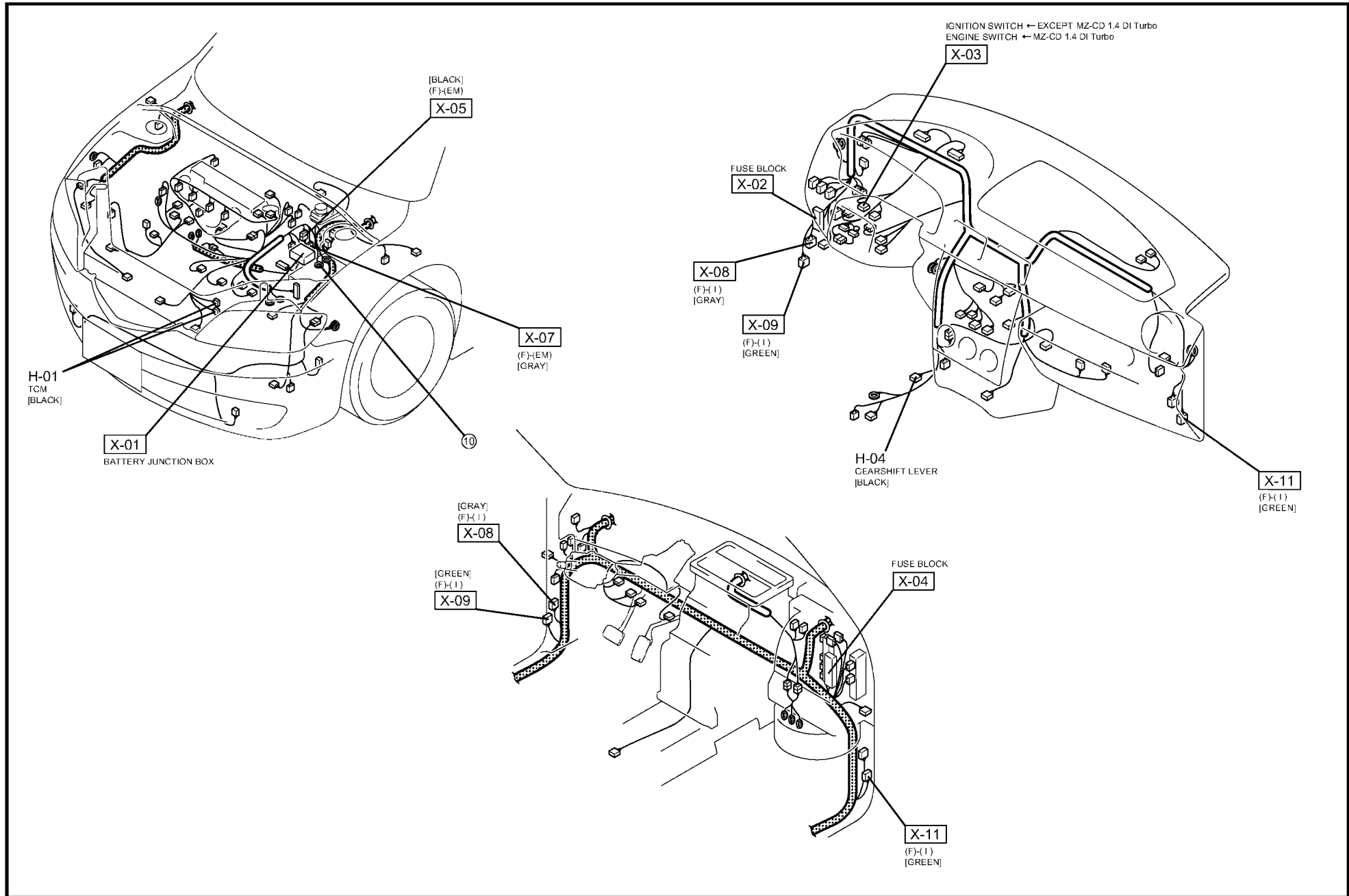
H-01 TCM(EM)

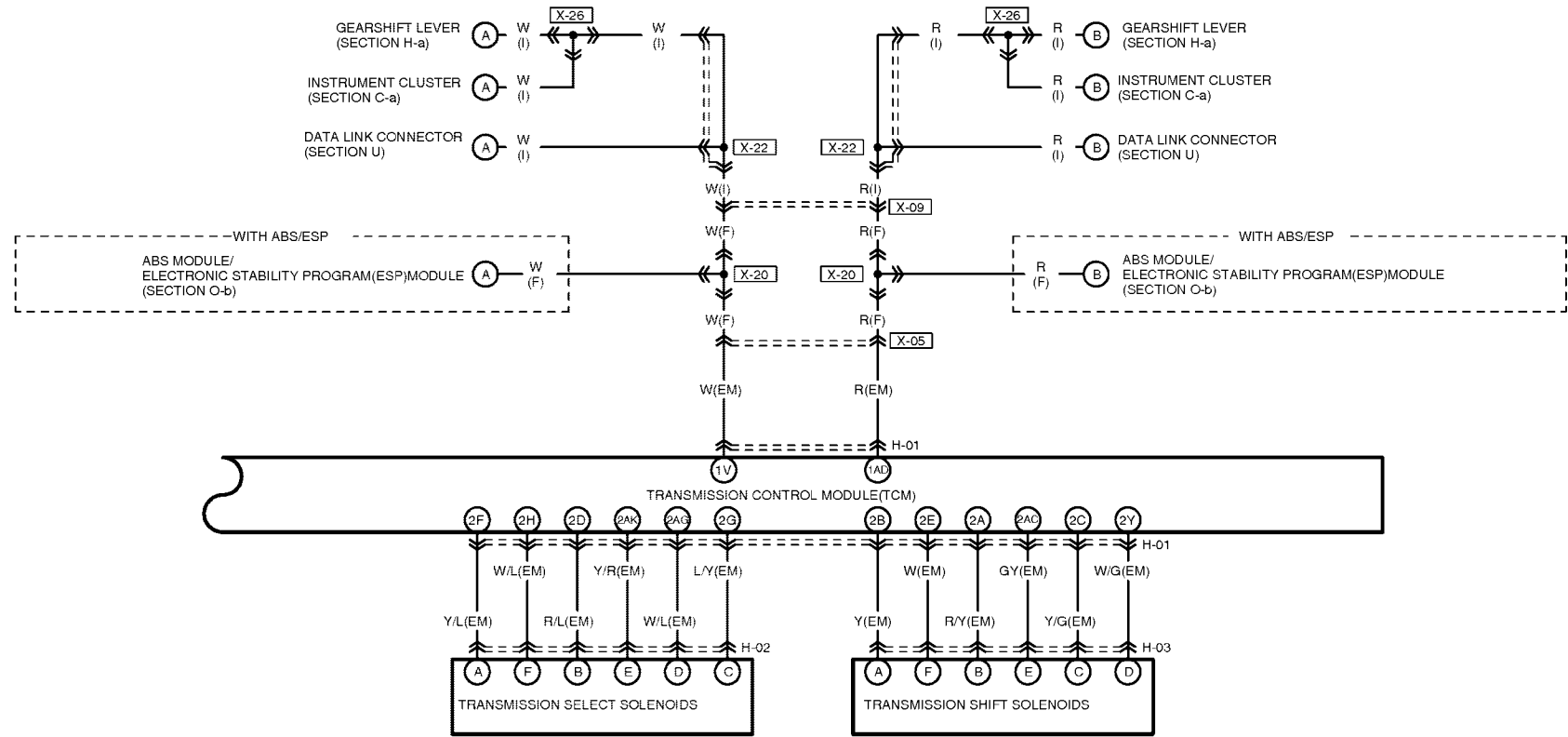


H-04 GEARSHIFT LEVER(I)



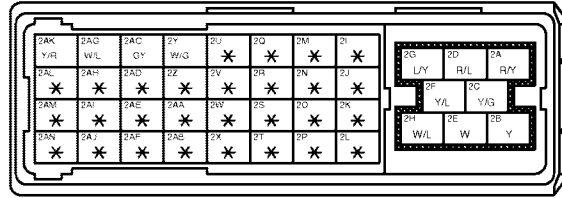
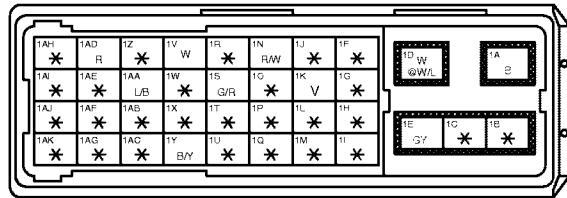
HARNES SYMBOL:  (F)  (E)  (R)



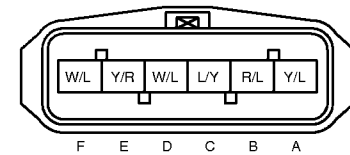


96

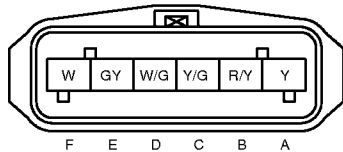
H-01 TCM(EM)



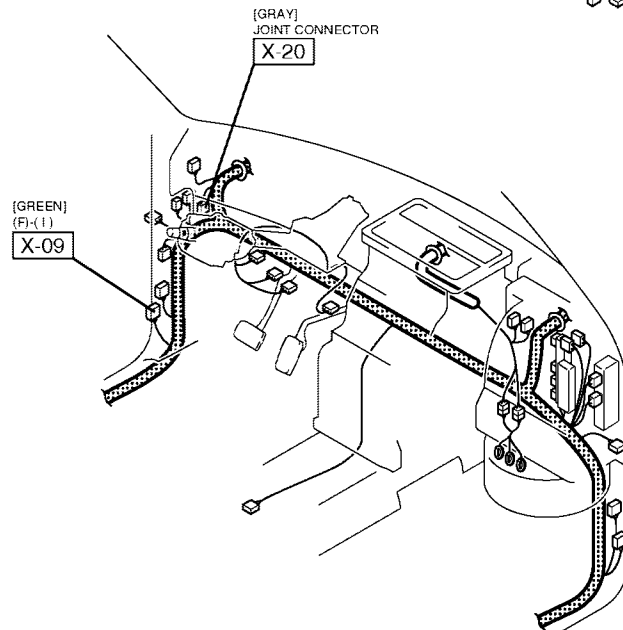
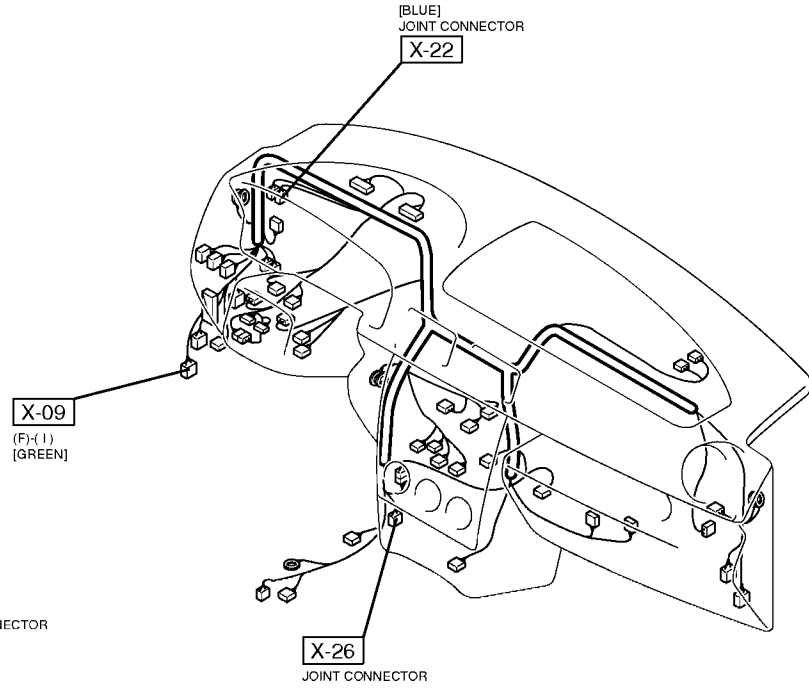
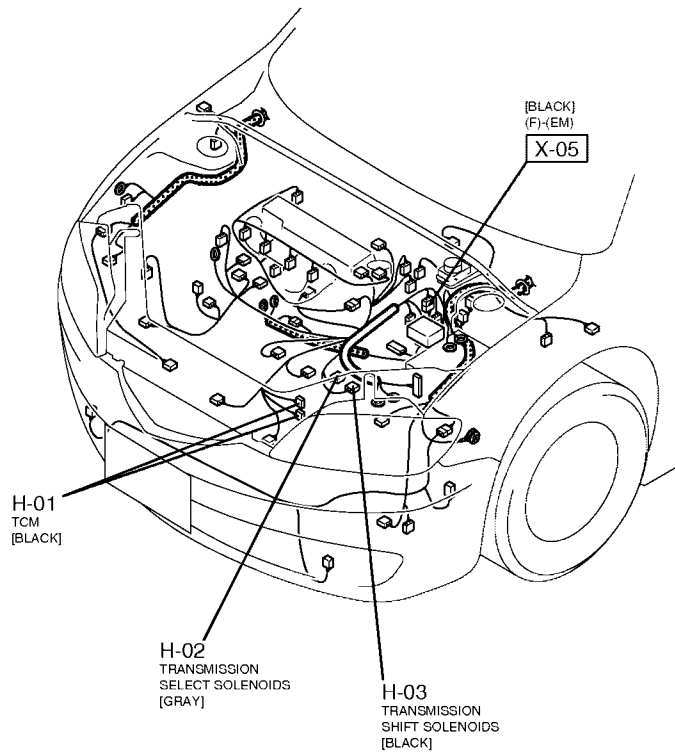
H-02 TRANSMISSION SELECT SOLENOIDS(EM)



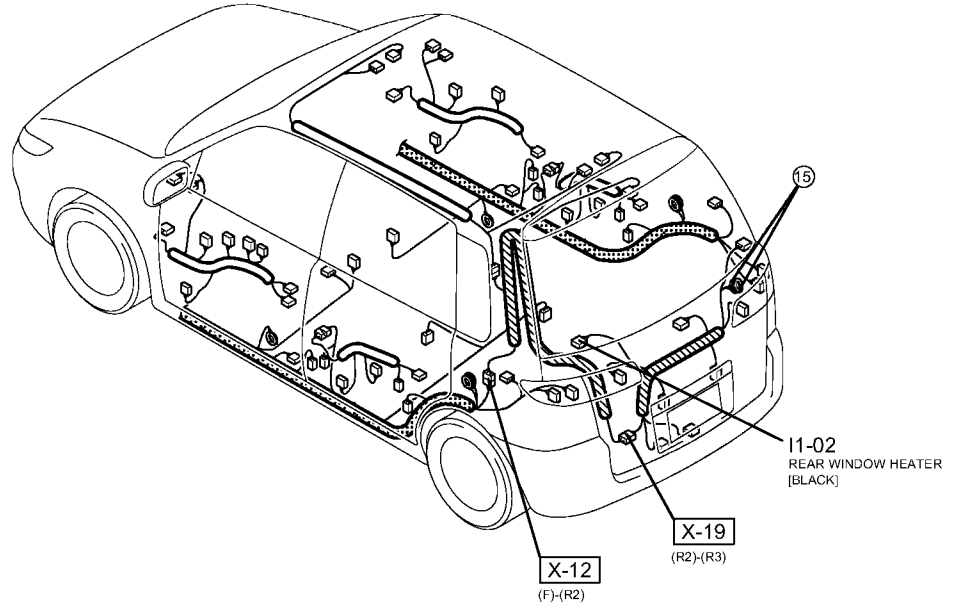
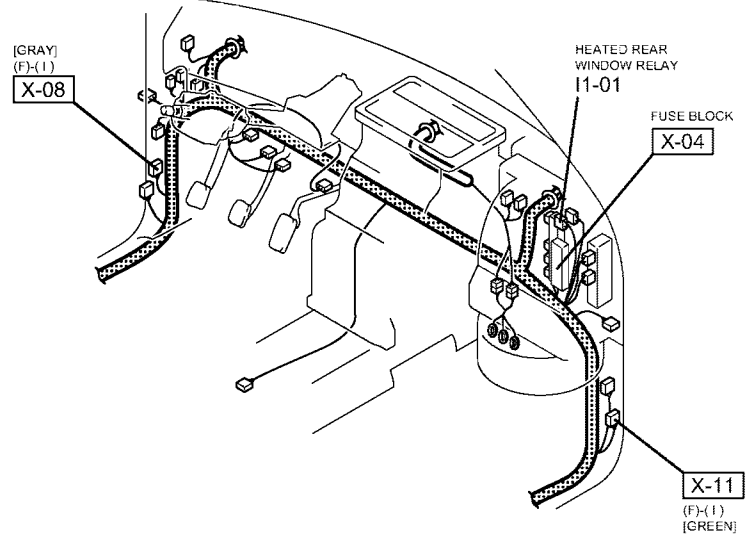
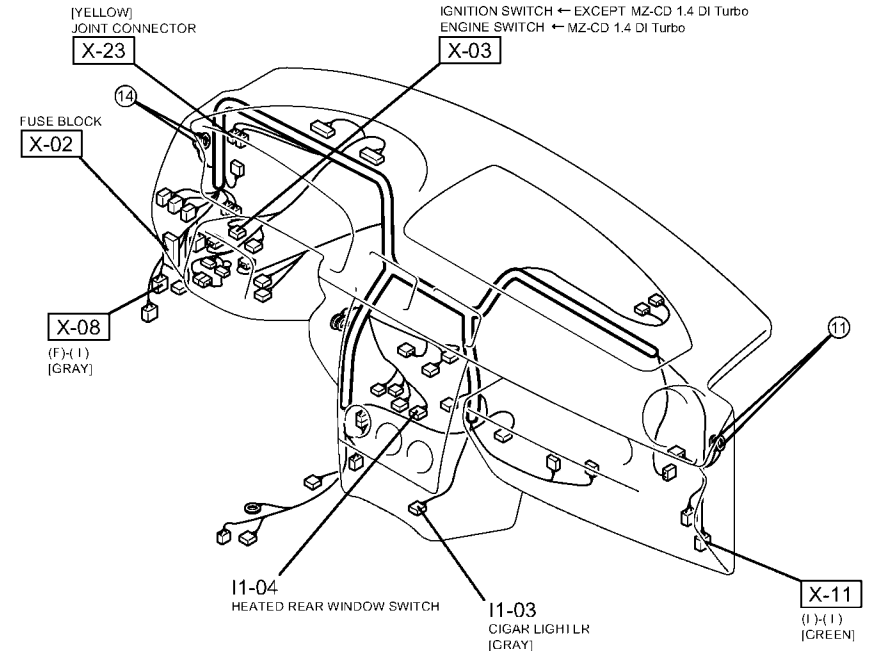
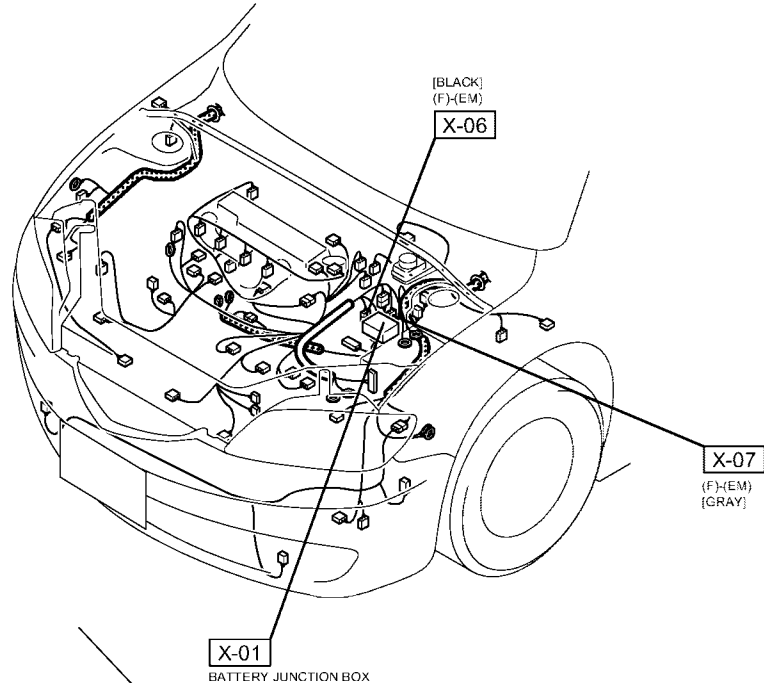
H-03 TRANSMISSION SHIFT SOLENOIDS(EM)



HARNESS SYMBOL:  (F)  (E)  (R)



HARNESS SYMBOL:  (F)  (E)  (R)

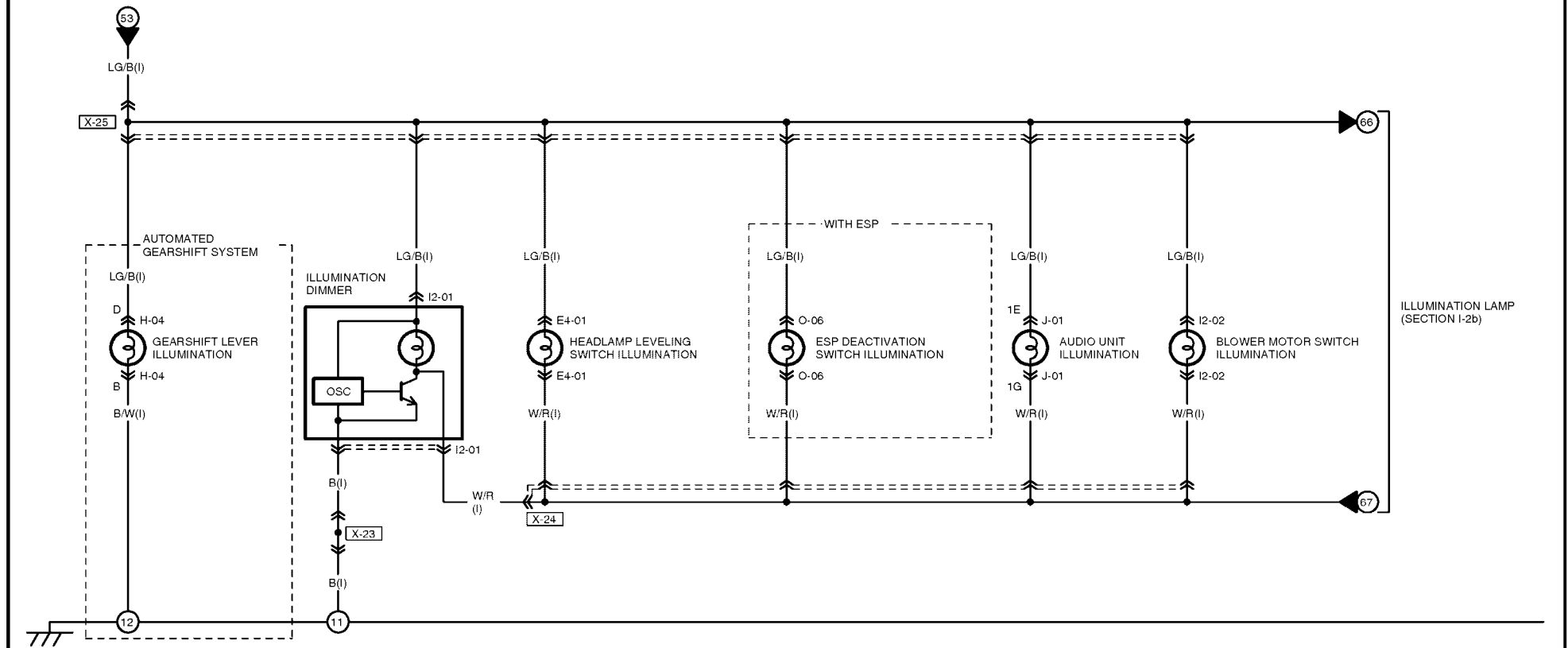


ILLUMINATION LAMP

I-2a

TAILAMP AND SIDELIGHT RELAY ← WITHOUT DAYTIME RUNNING LAMP
 DAYTIME RUNNING LAMP UNIT ← WITH DAYTIME RUNNING LAMP
 (SECTION E-1b)

... WITH AUDIO CONTROL SWITCH
 © ... WITH 6 SPEAKER

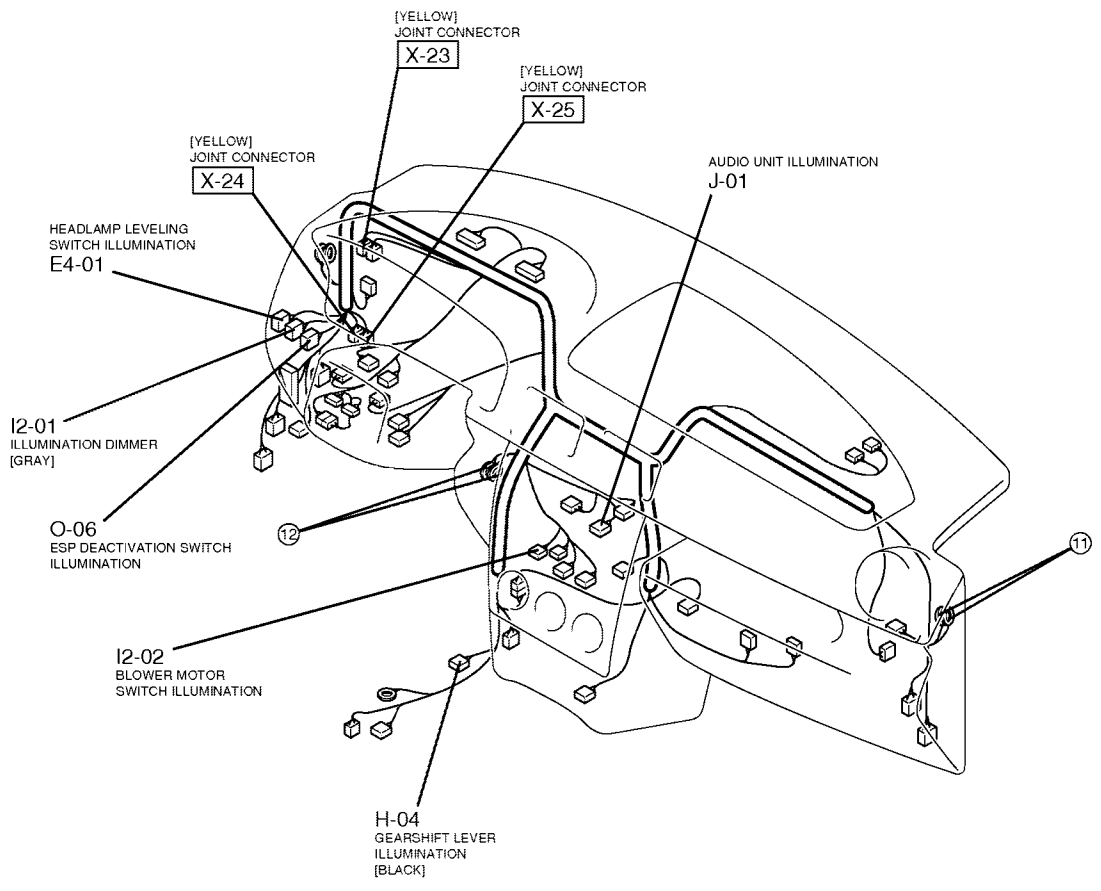


ILLUMINATION LAMP
 (SECTION I-2b)

100

<p>I2-01 ILLUMINATION DIMMER(I)</p>	<p>I2-02 BLOWER MOTOR SWITCH ILLUMINATION(I)</p>	<p>E4-01 HEADLAMP LEVELING SWITCH ILLUMINATION(I)</p>	
<p>H-04 GEARSHIFT LEVER ILLUMINATION(I)</p>	<p>J-01 AUDIO UNIT ILLUMINATION(I)</p>	<p>O-06 ESP DEACTIVATION SWITCH ILLUMINATION(I)</p>	

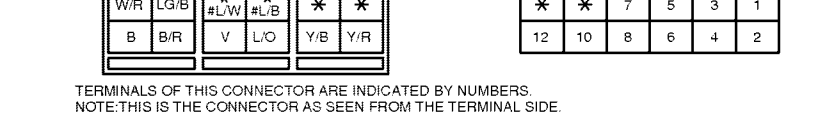
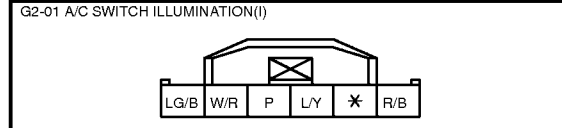
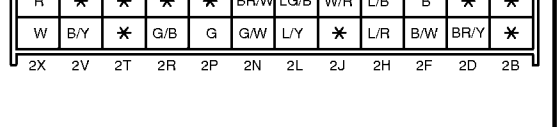
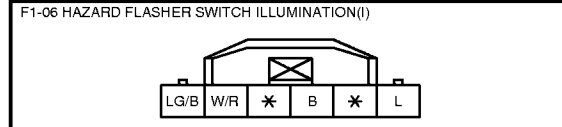
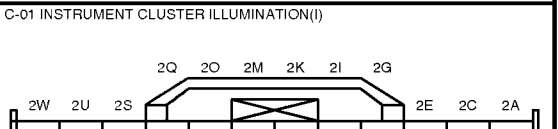
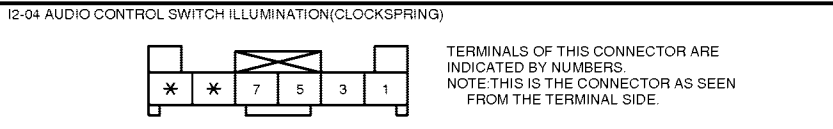
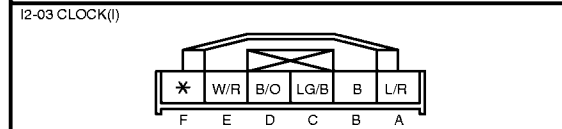
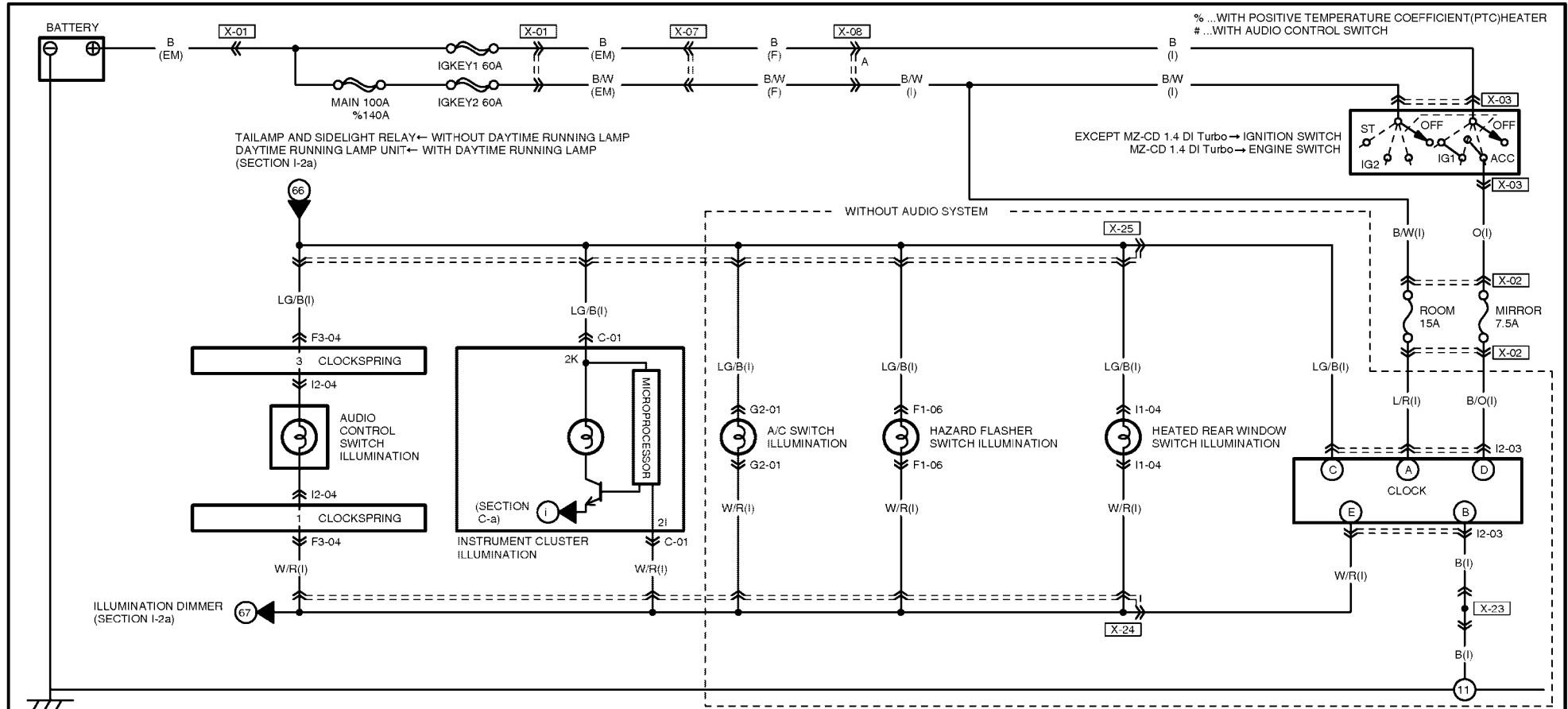
HARNES SYMBOL:  (F)  (E)  (R)



101

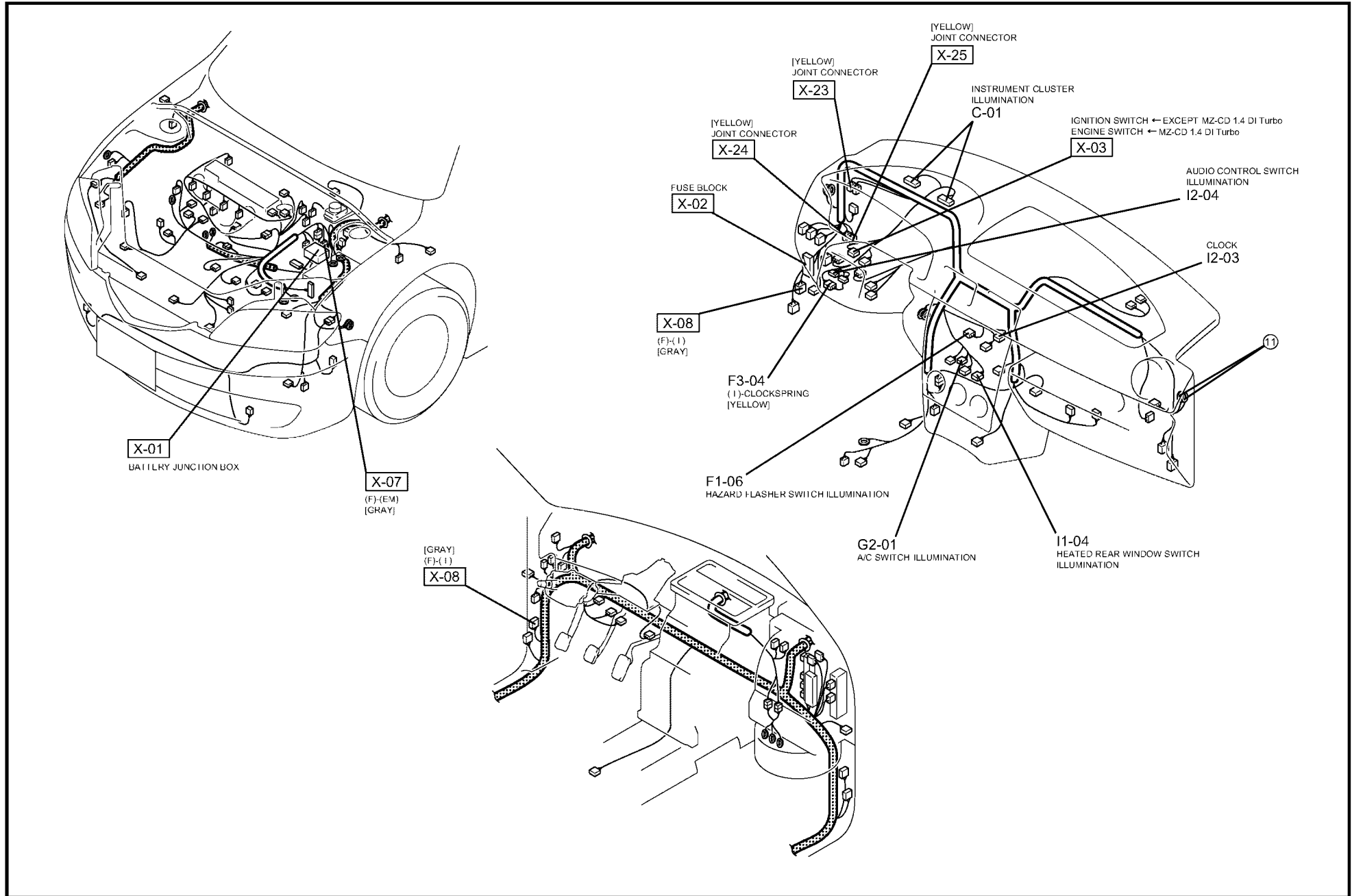
CLOCK / ILLUMINATION LAMP

I-2b



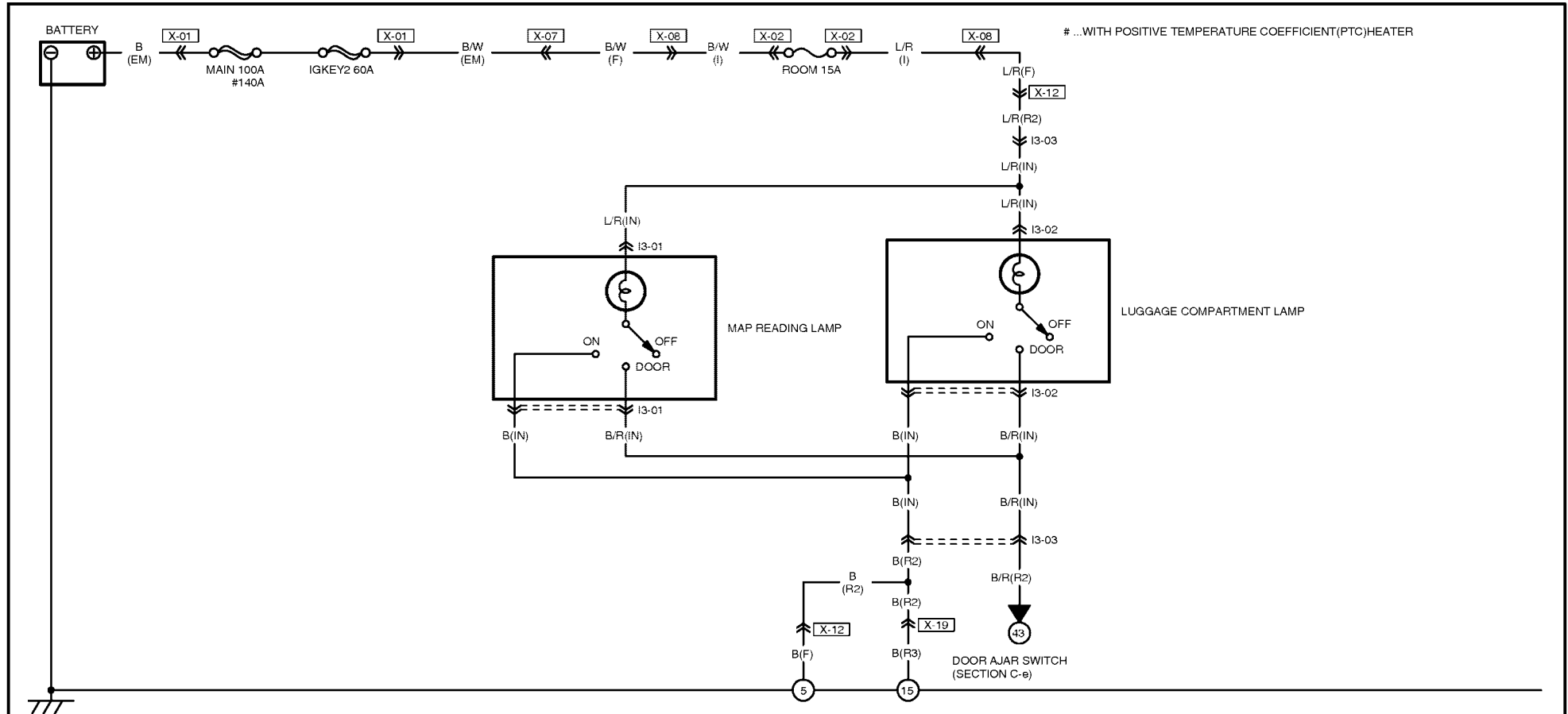
102

HARNES SYMBOL:  (F)  (E)  (R)



LUGGAGE COMPARTMENT LAMP / MAP READING LAMP

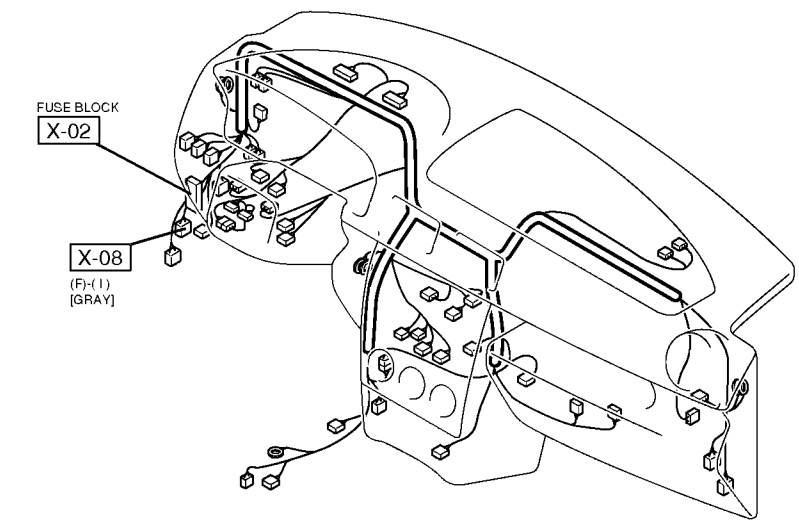
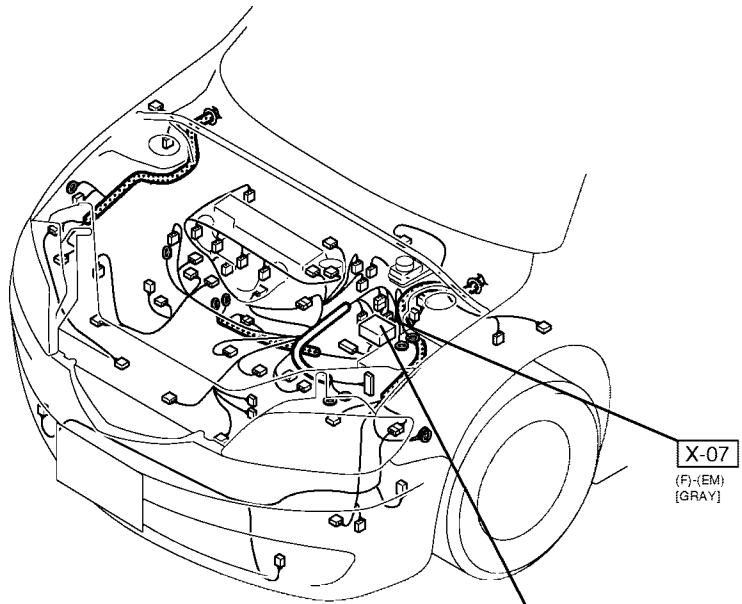
I-3



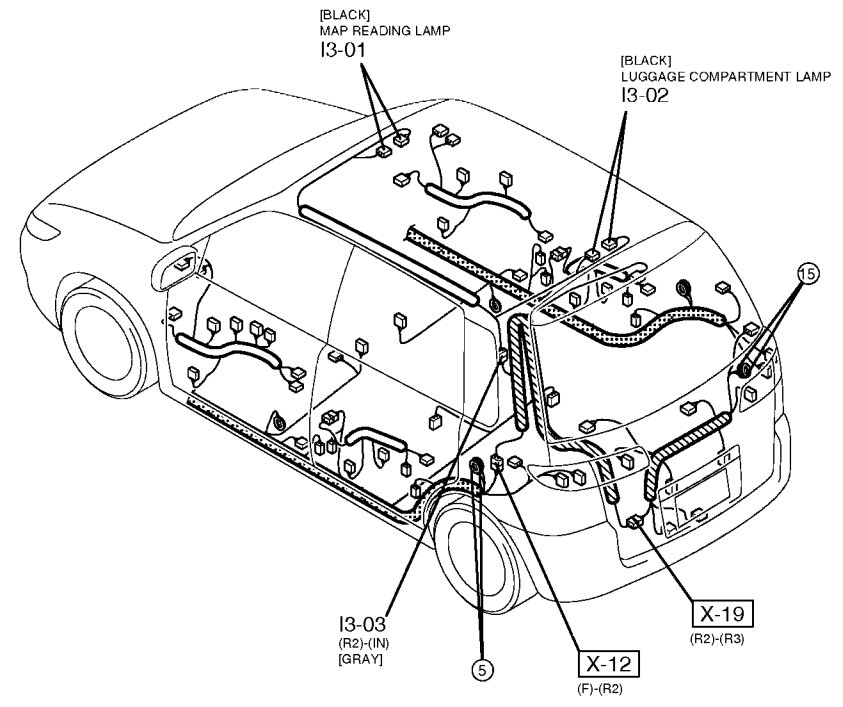
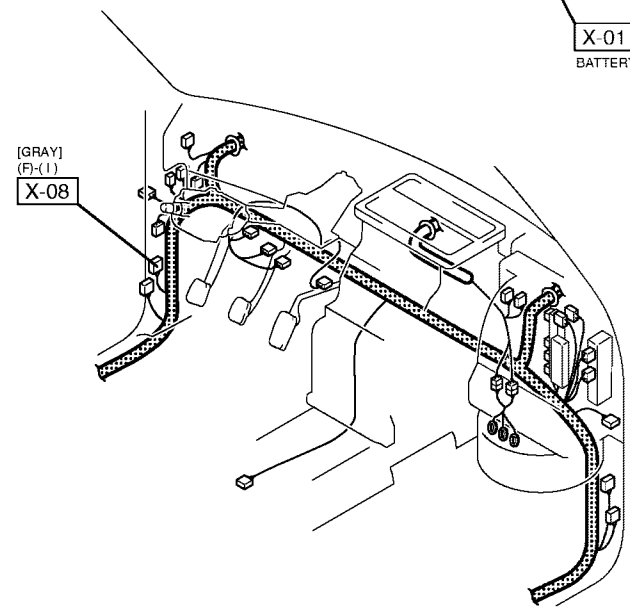
104

<p>I3-01 MAP READING LAMP(IN)</p>	<p>I3-02 LUGGAGE COMPARTMENT LAMP(IN)</p>	<p>I3-03 REAR No.2(R2)-INTERIOR LIGHT(IN)</p>
Empty cell	Empty cell	Empty cell
Empty cell	Empty cell	Empty cell

HARNESS SYMBOL:  (F)  (E)  (R)

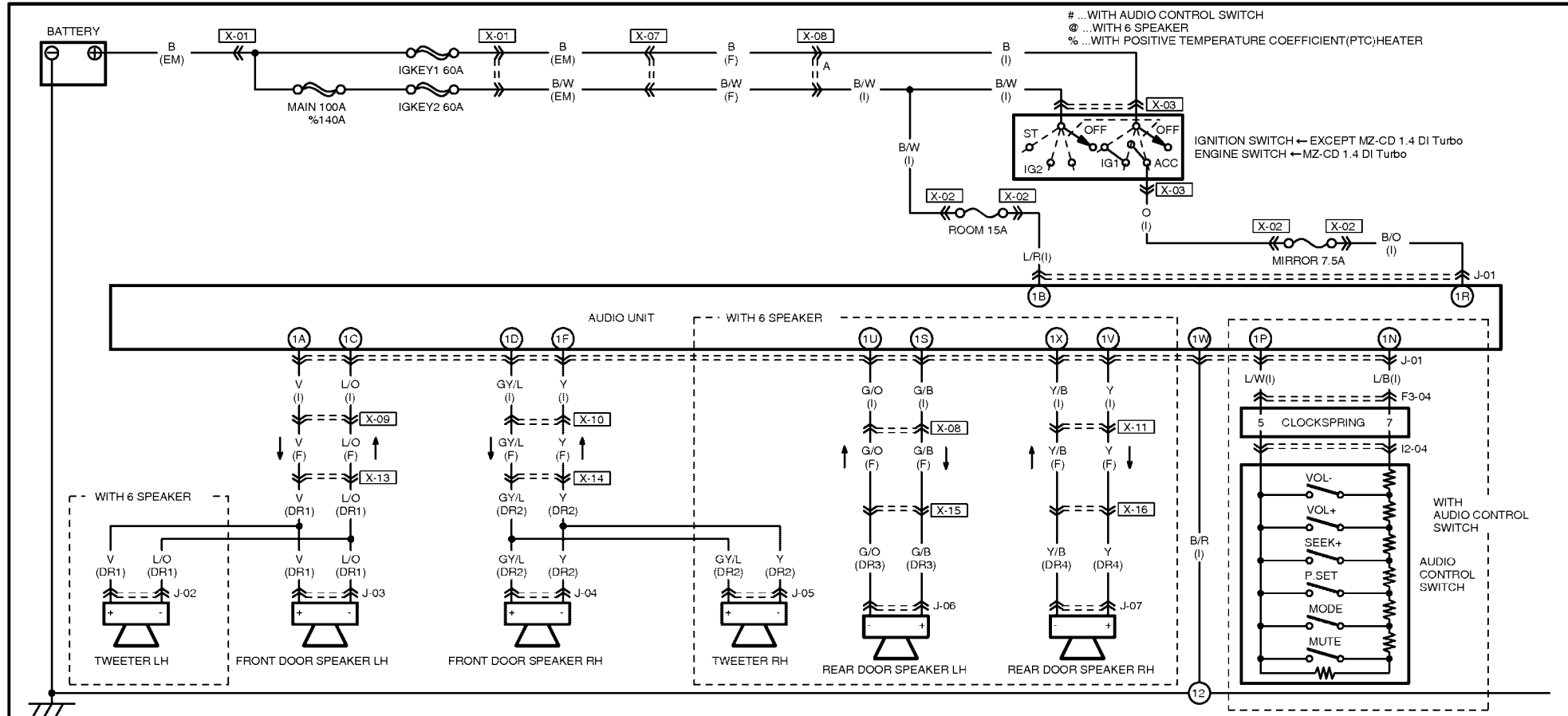


X-01
BATTERY JUNCTION BOX

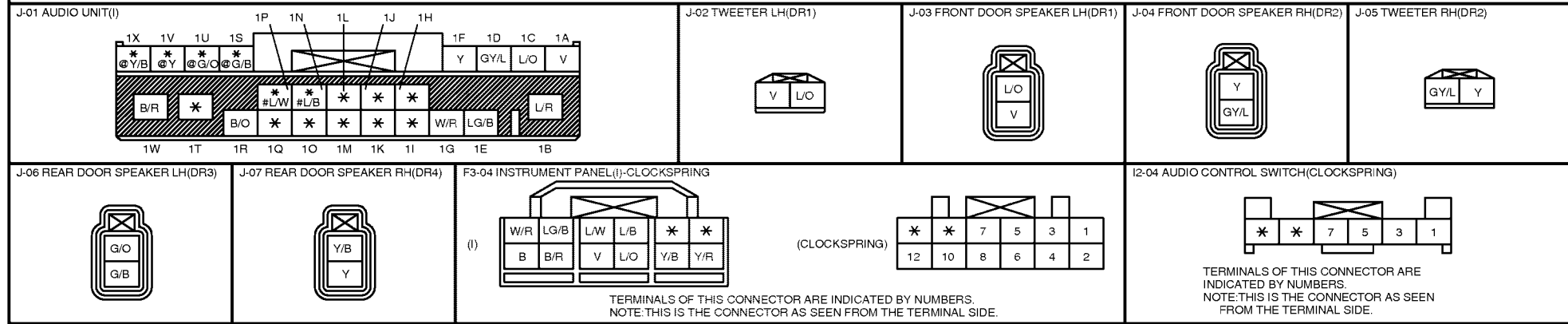



AUDIO SYSTEM

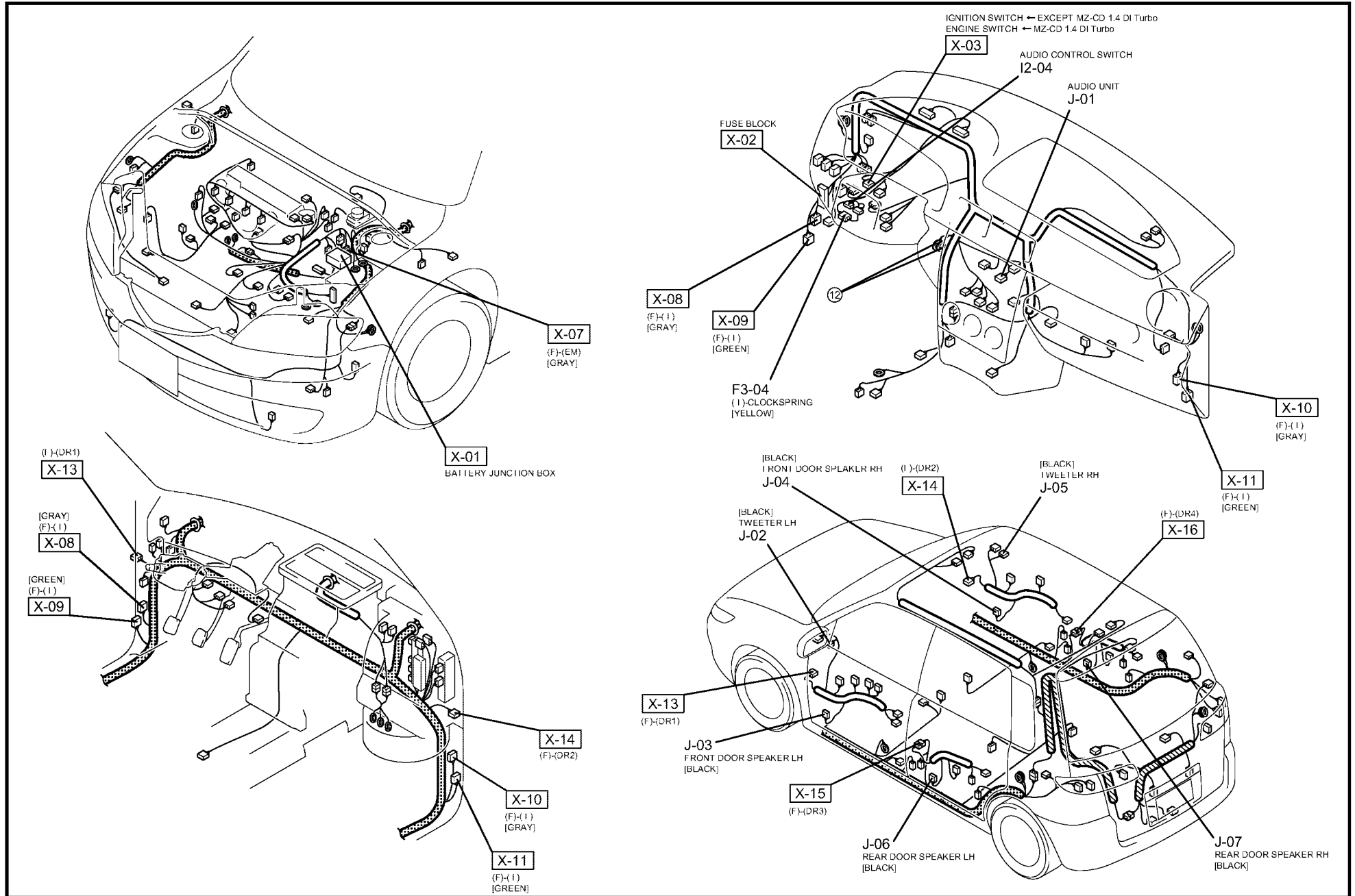
J



106



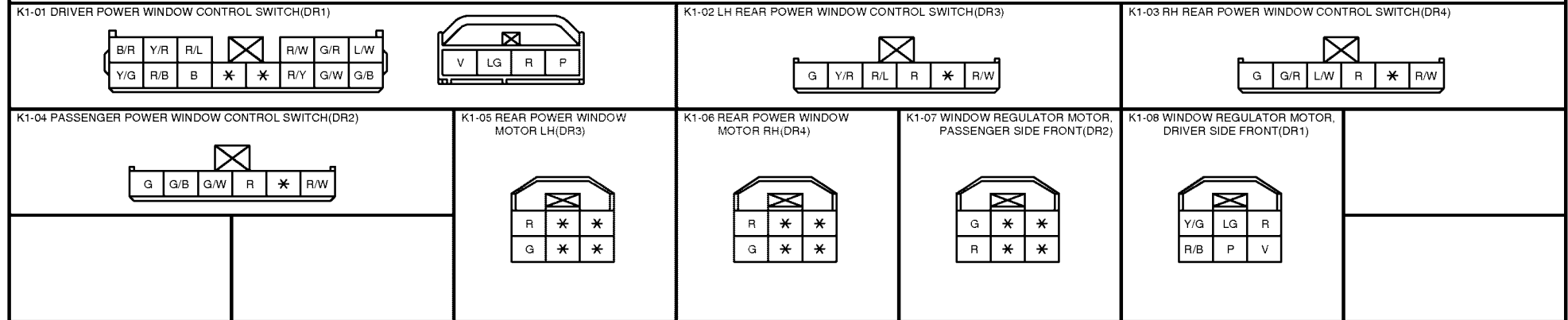
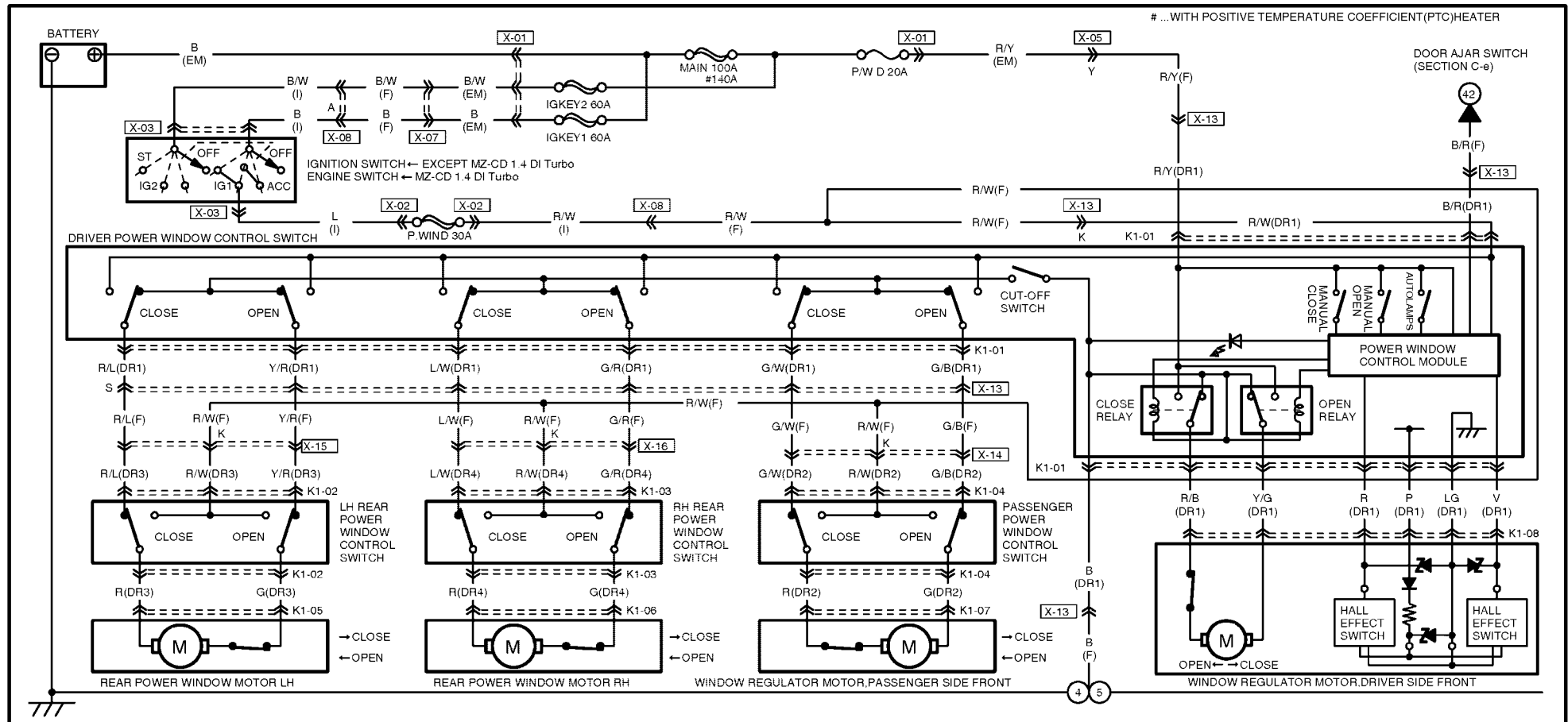
HARNES SYMBOL:  (F)  (E)  (R)



POWER WINDOWS

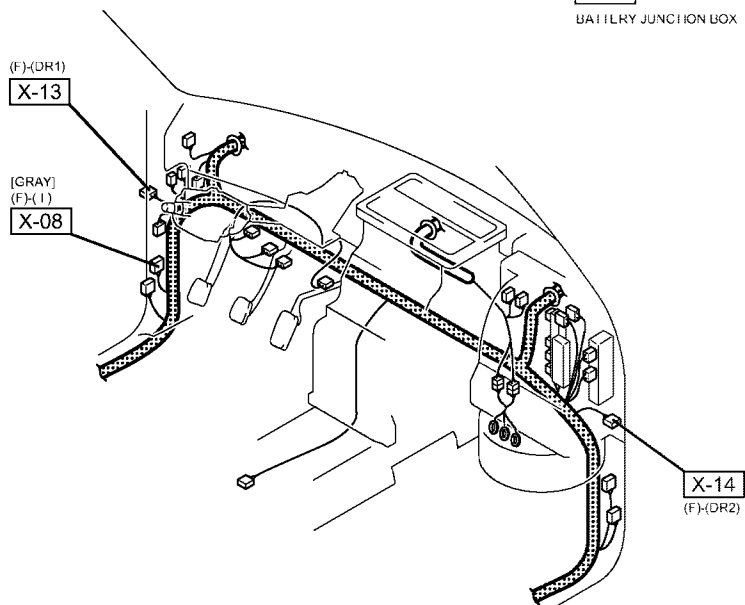
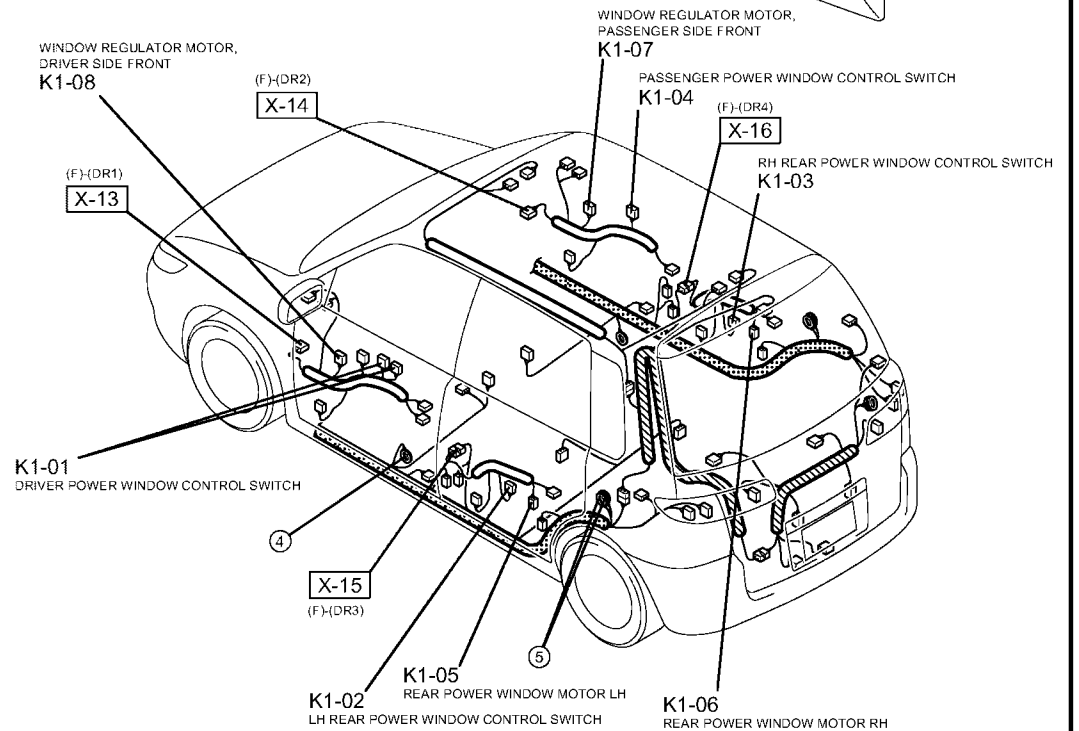
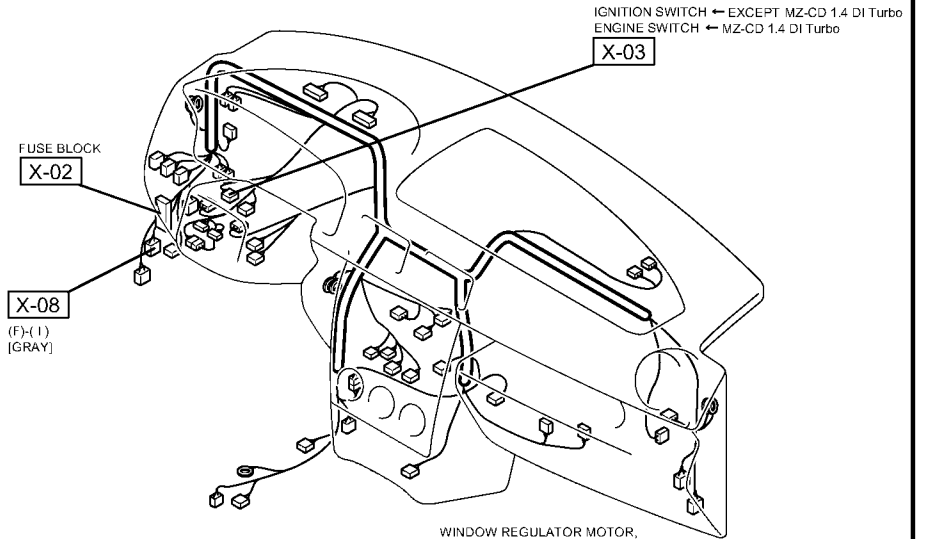
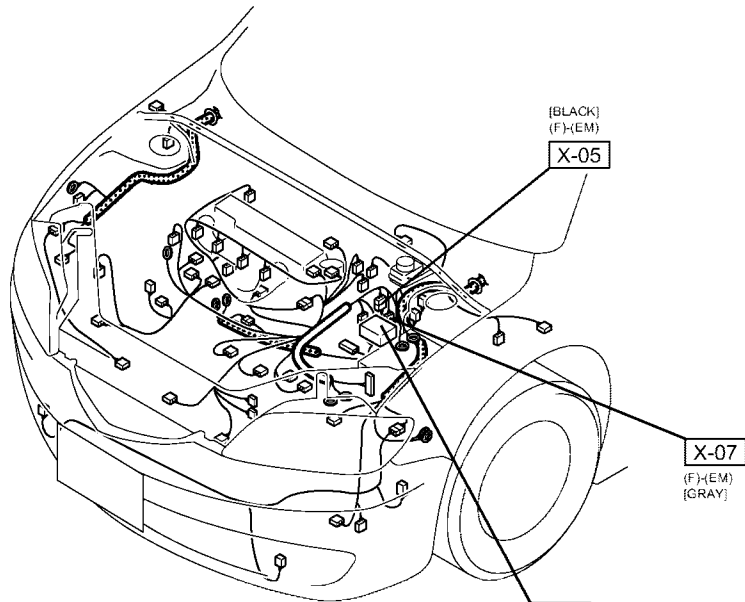
K-1

...WITH POSITIVE TEMPERATURE COEFFICIENT(PTC)HEATER



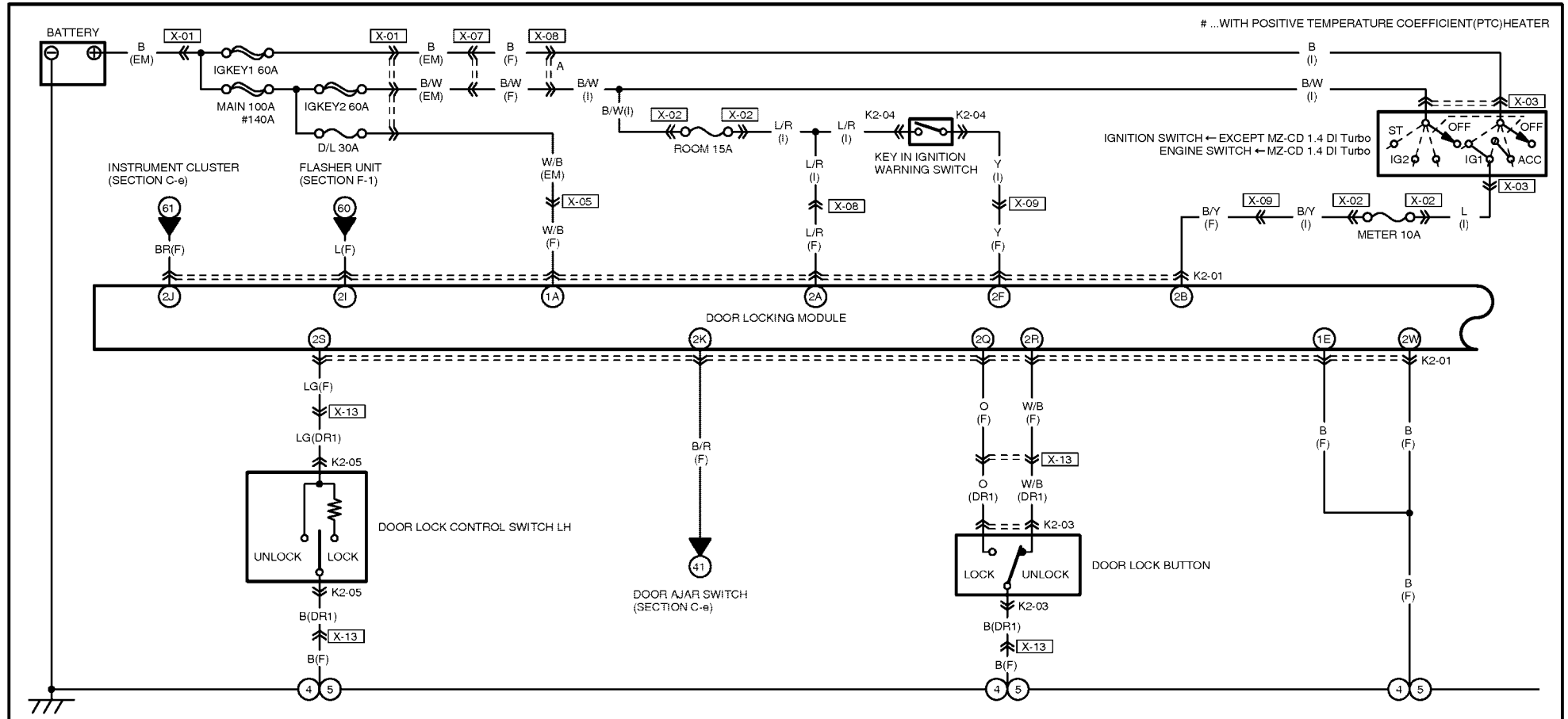
108

HARNES SYMBOL:  (F)  (E)  (R)

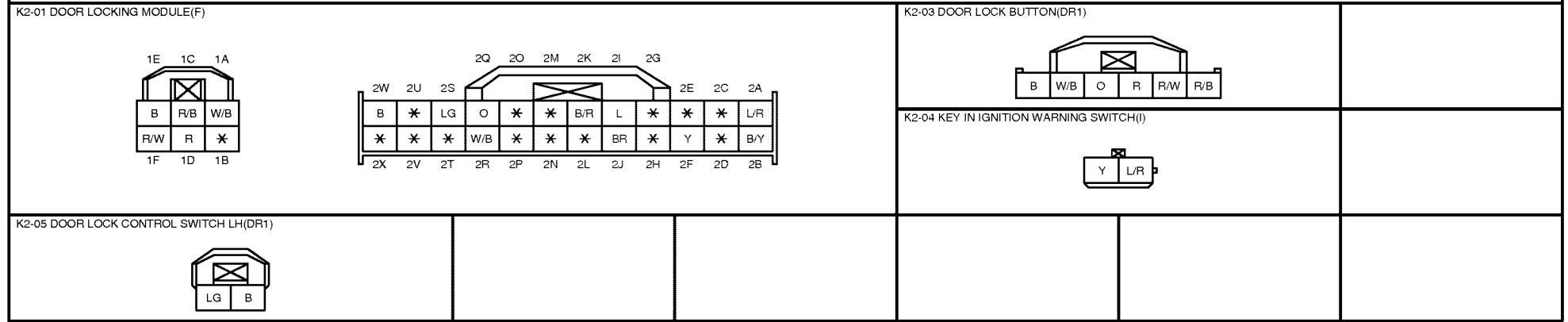


CENTRAL LOCKING SYSTEM (WITH DOUBLE LOCKING)

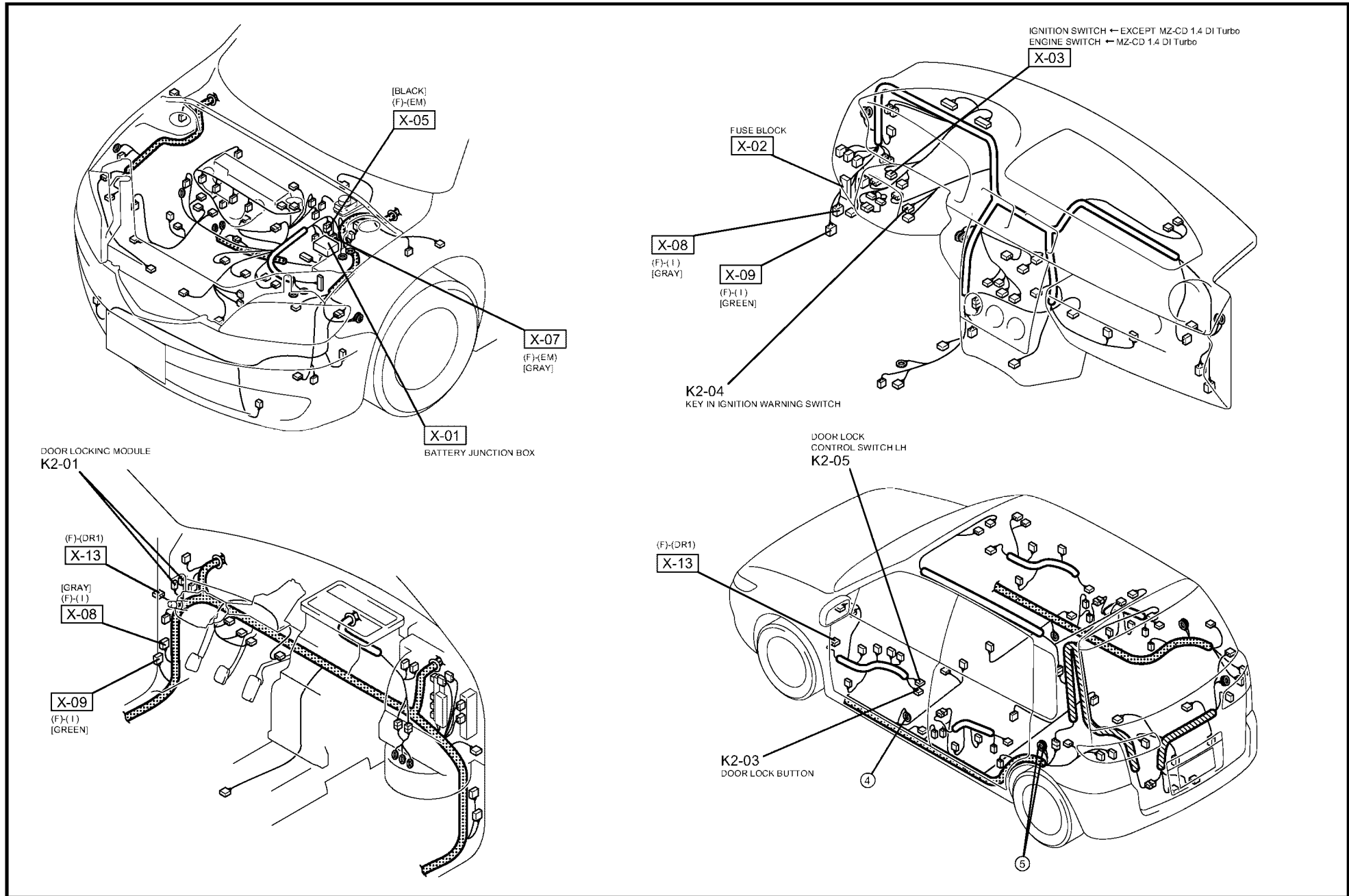
K-2a



110



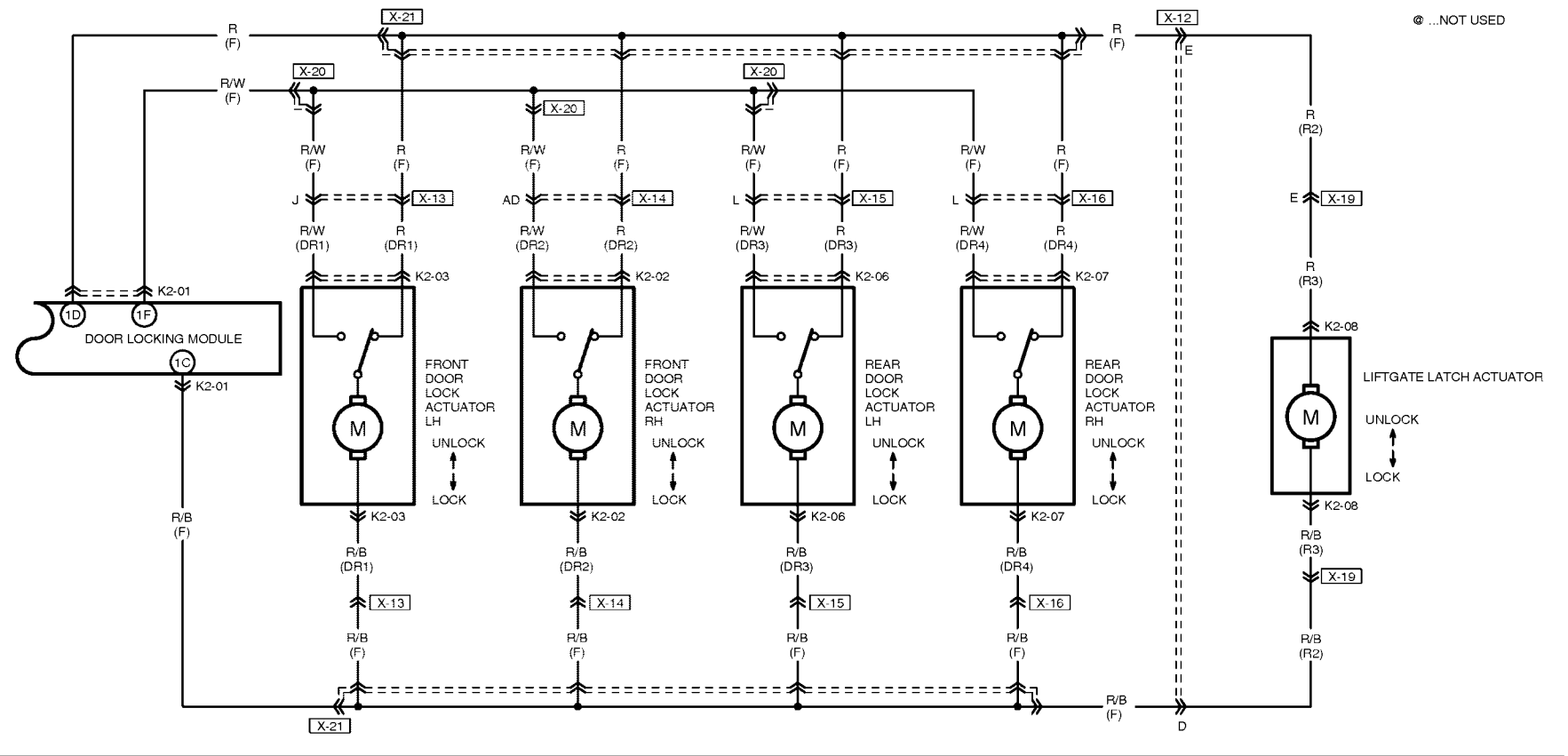
HARNES SYMBOL:  (F)  (E)  (R)



111

CENTRAL LOCKING SYSTEM (WITH DOUBLE LOCKING)

K-2b



112

<p>K2-01 DOOR LOCKING MODULE(F)</p>	<p>K2-02 FRONT DOOR LOCK ACTUATOR RH(DR2)</p>	<p>K2-03 FRONT DOOR LOCK ACTUATOR LH(DR1)</p>	<p>K2-06 REAR DOOR LOCK ACTUATOR LH(DR3)</p>
	<p>K2-07 REAR DOOR LOCK ACTUATOR RH(DR4)</p>	<p>K2-08 LIFTGATE LATCH ACTUATOR(R3)</p>	

HARNES SYMBOL:  (F)  (E)  (R)

DOOR LOCKING MODULE
K2-01

[GRAY]
JOINT CONNECTOR
X-20

(F)-(DR1)
X-13

X-21
JOINT CONNECTOR
[ORANGE]

X-14
(F)-(DR2)

(F)-(DR2)
X-14

FRONT DOOR LOCK ACTUATOR RH
K2-02

(F)-(DR4)
X-16

REAR DOOR LOCK ACTUATOR RH
K2-07

X-13
(F)-(DR1)

K2-03
FRONT DOOR LOCK ACTUATOR LH

X-15
(F)-(DR3)

K2-06
REAR DOOR LOCK ACTUATOR LH

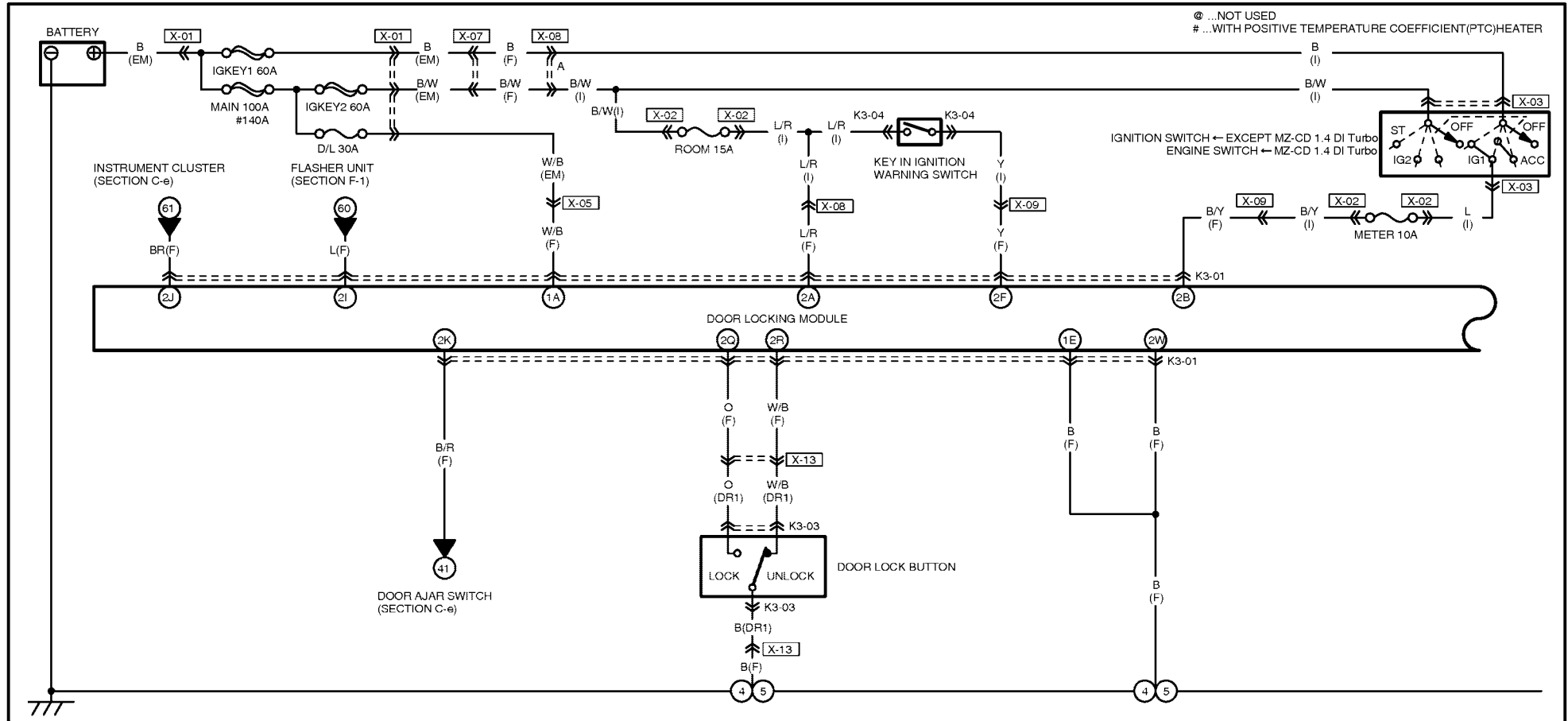
K2-08
LIFTGATE LATCH ACTUATOR

X-19
(R2)-(R3)

X-12
(F)-(R2)

CENTRAL LOCKING SYSTEM (WITHOUT DOUBLE LOCKING)

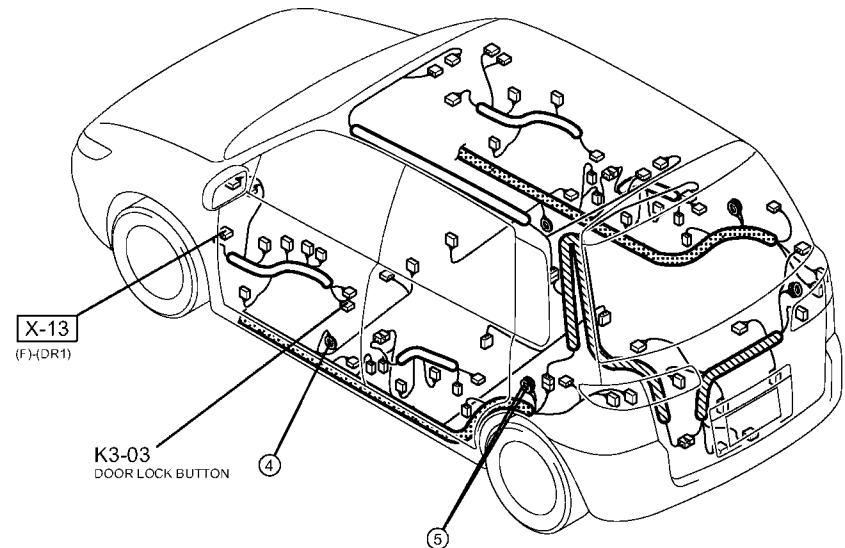
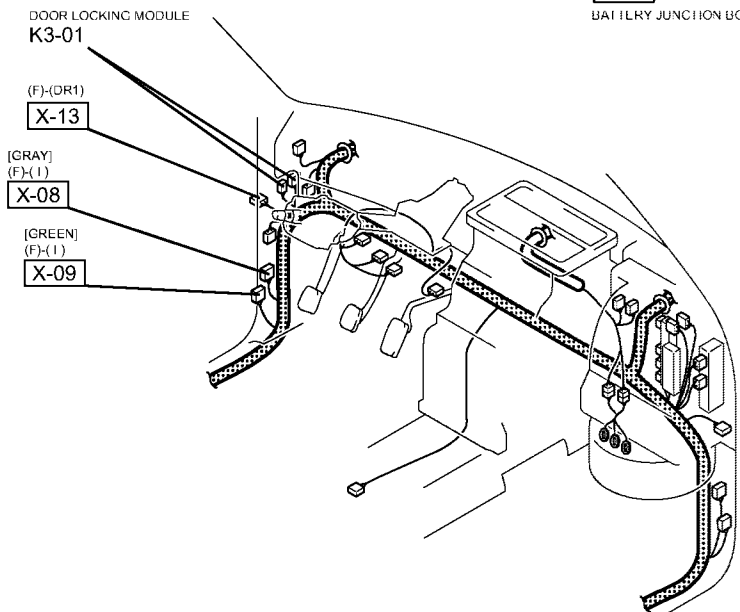
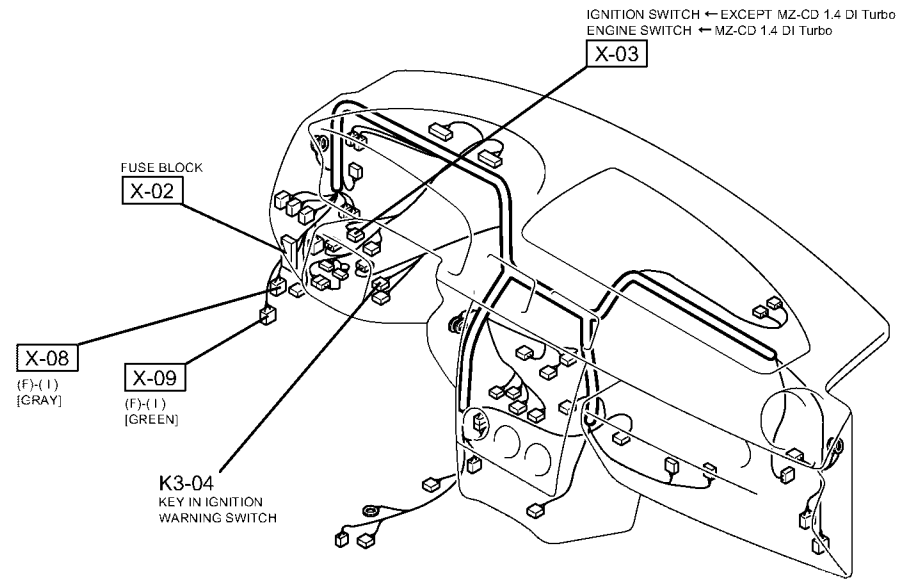
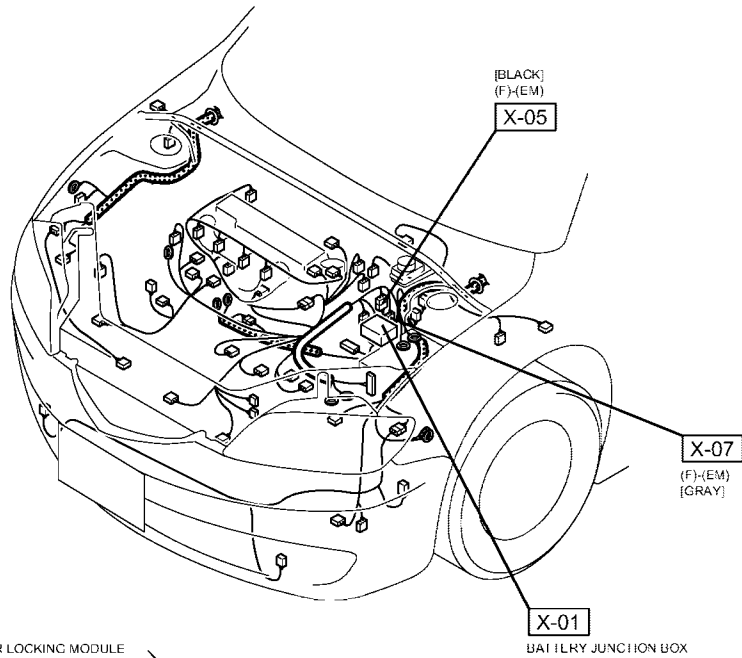
K-3a



114

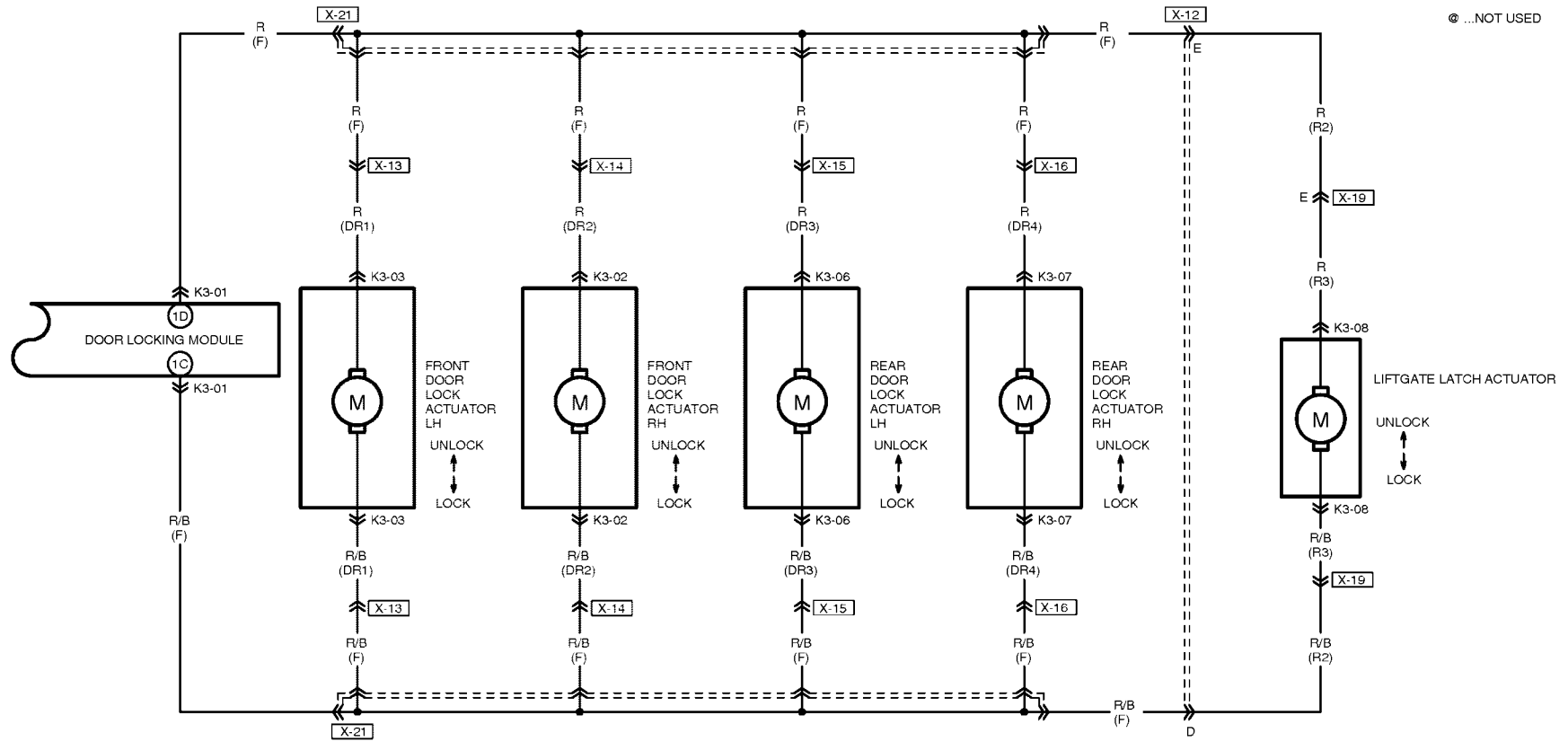
<p>K3-01 DOOR LOCKING MODULE(F)</p>	<p>K3-03 DOOR LOCK BUTTON(DR1)</p>	
	<p>K3-04 KEY IN IGNITION WARNING SWITCH(I)</p>	

HARNES SYMBOL:  (F)  (E)  (R)



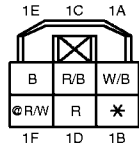
CENTRAL LOCKING SYSTEM (WITHOUT DOUBLE LOCKING)

K-3b

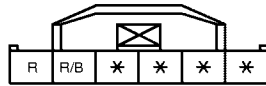


116

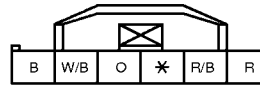
K3-01 DOOR LOCKING MODULE(F)



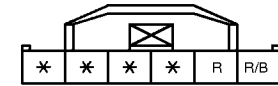
K3-02 FRONT DOOR LOCK ACTUATOR RH(DR2)



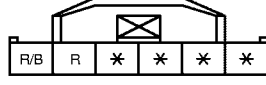
K3-03 FRONT DOOR LOCK ACTUATOR LH(DR1)



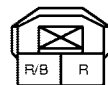
K3-06 REAR DOOR LOCK ACTUATOR LH(DR3)



K3-07 REAR DOOR LOCK ACTUATOR RH(DR4)



K3-08 LIFTGATE LATCH ACTUATOR(R3)



HARNES SYMBOL:  (F)  (E)  (R)

DOOR LOCKING MODULE
K3-01

(F)-(DR1)
X-13

X-21
JOINT CONNECTOR
[ORANGE]

X-14
(F)-(DR2)

(F)-(DR2)
X-14

FRONT DOOR LOCK ACTUATOR RH
K3-02

(F)-(DR4)
X-16

REAR DOOR LOCK ACTUATOR RH
K3-07

X-13
(F)-(DR1)

K3-03
FRONT DOOR LOCK ACTUATOR LH

X-15
(F)-(DR3)

K3-06
REAR DOOR LOCK ACTUATOR LH

X-12
(F)-(R2)

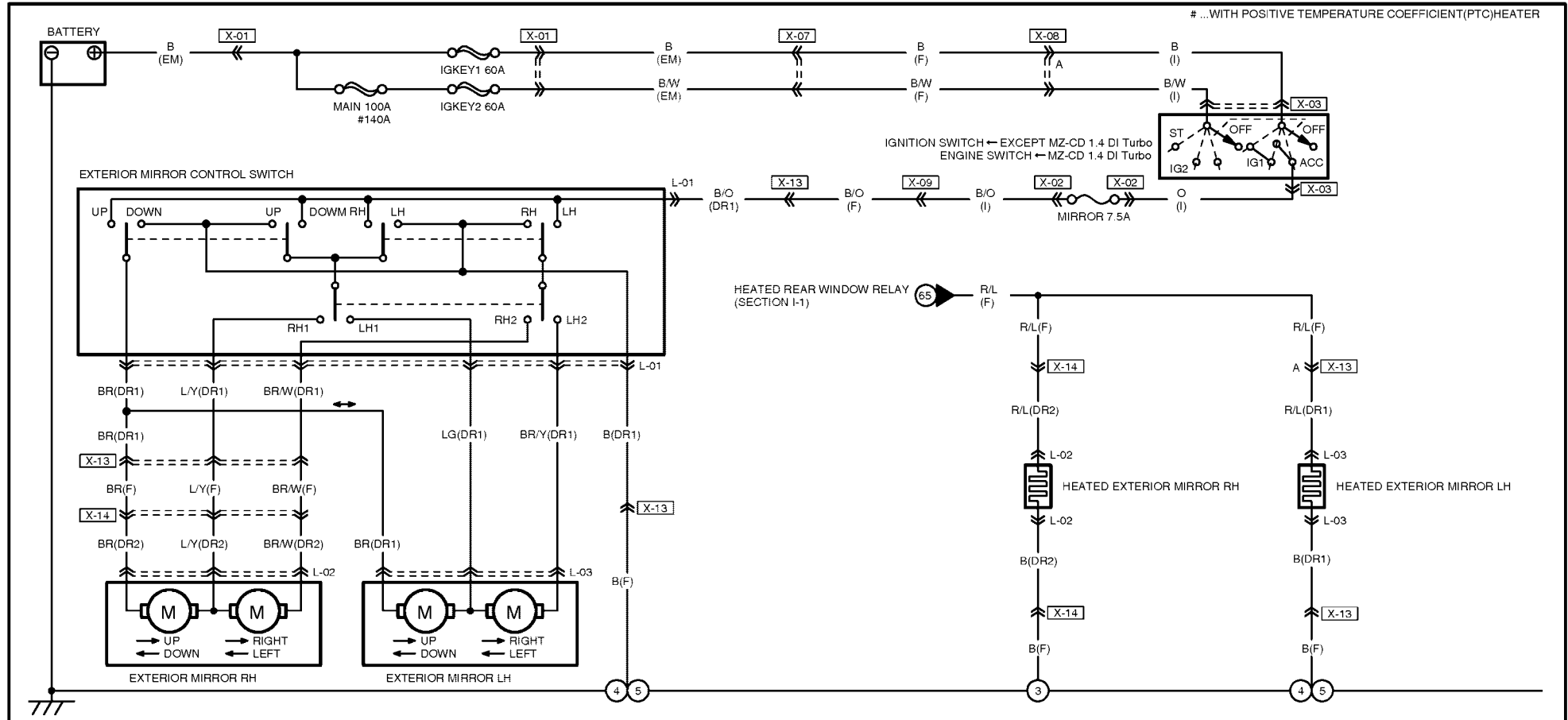
X-19
(R2)-(R3)

K3-08
LIFTGATE LATCH ACTUATOR

EXTERIOR MIRROR / HEATED EXTERIOR MIRROR

L

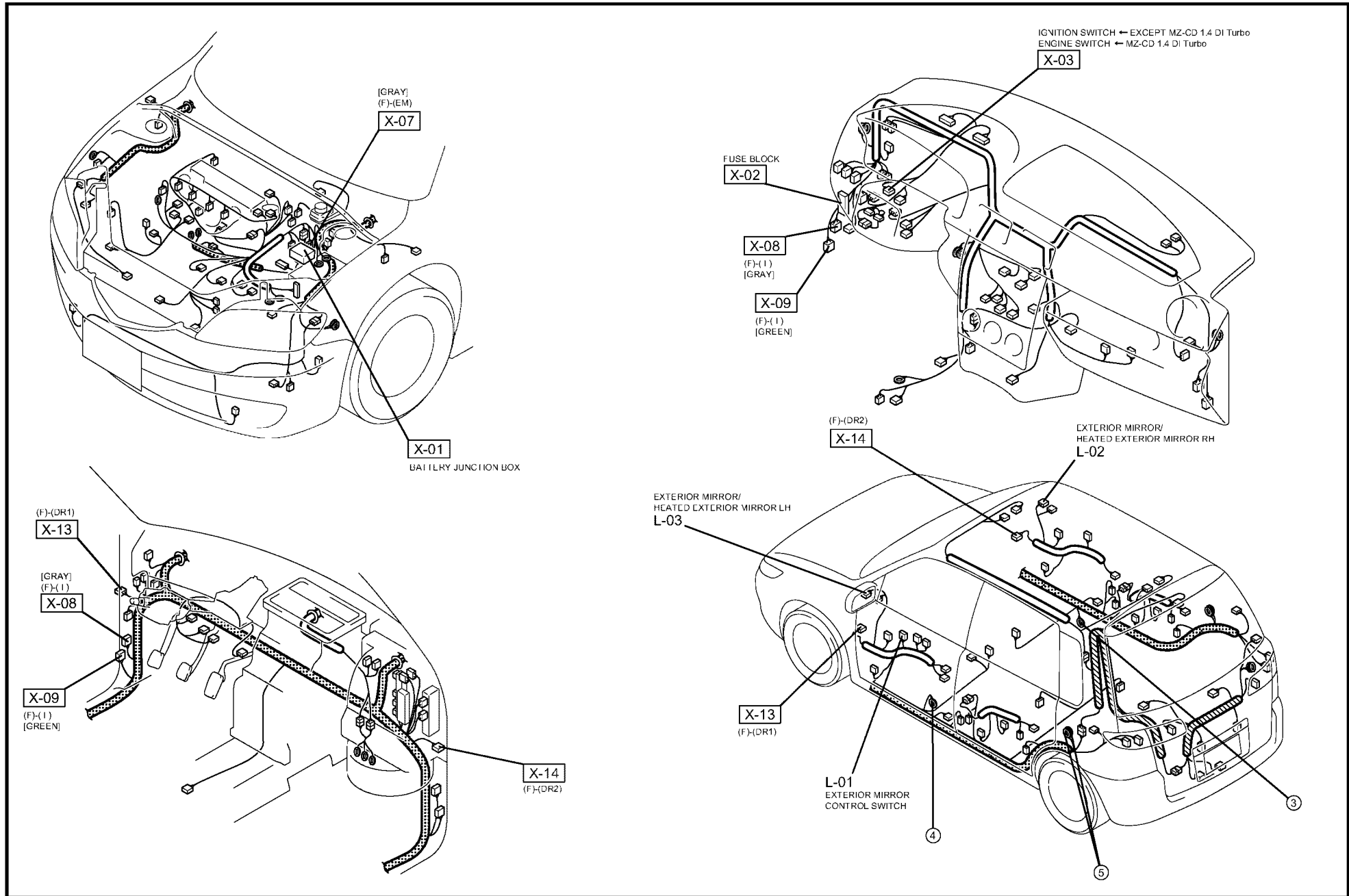
...WITH POSITIVE TEMPERATURE COEFFICIENT(PTC)HEATER



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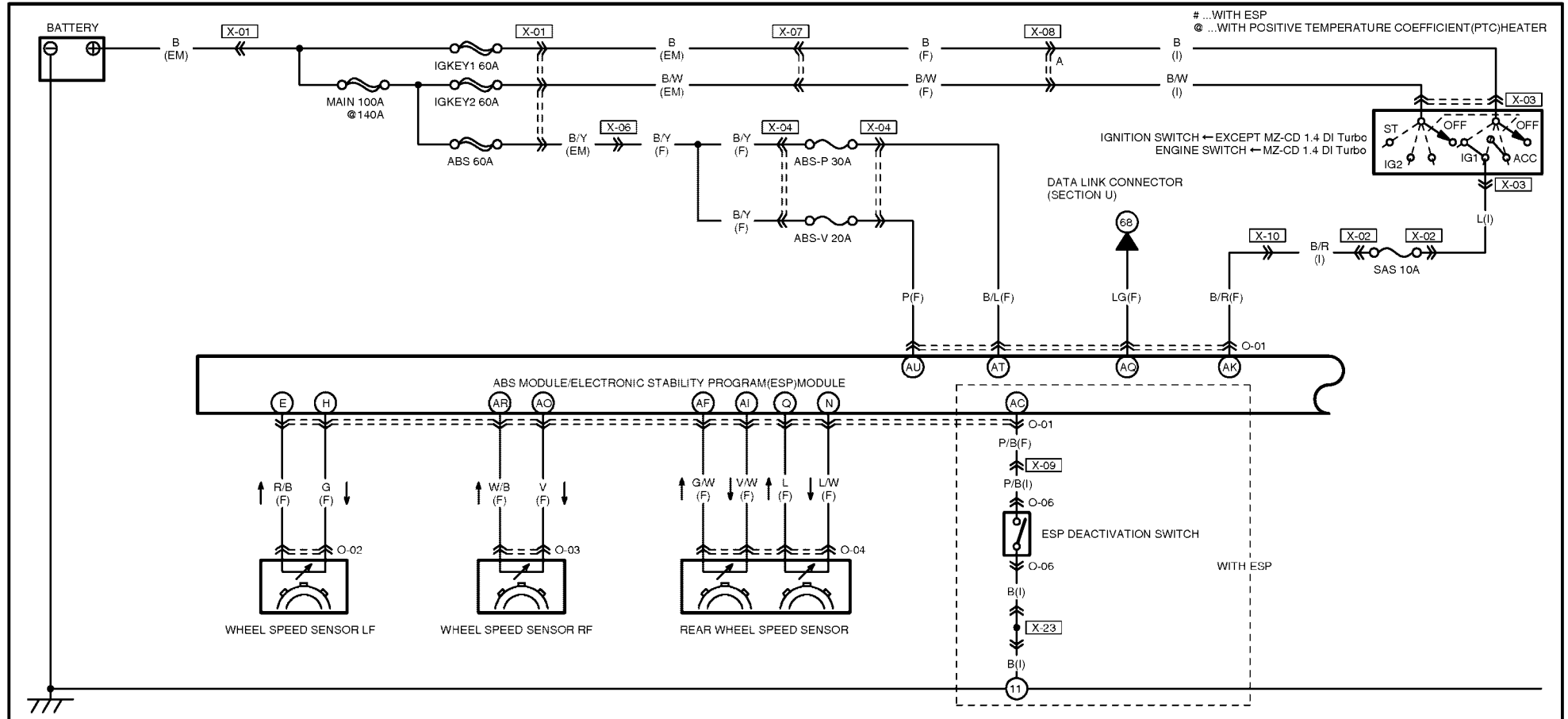
<p>L-01 EXTERIOR MIRROR CONTROL SWITCH(DR1)</p> <table border="1"> <tr> <td>BR/W</td> <td>BR</td> <td></td> <td>*</td> <td>*</td> </tr> <tr> <td>BR/Y</td> <td>L/Y</td> <td>LG</td> <td>B/O</td> <td>B</td> </tr> </table>	BR/W	BR		*	*	BR/Y	L/Y	LG	B/O	B	<p>L-02 EXTERIOR MIRROR/HEATED EXTERIOR MIRROR RH(DR2)</p> <table border="1"> <tr> <td>B</td> <td>*</td> <td>*</td> <td>R/L</td> </tr> <tr> <td>*</td> <td>BR/W</td> <td>L/Y</td> <td>BR</td> </tr> </table>	B	*	*	R/L	*	BR/W	L/Y	BR	<p>L-03 EXTERIOR MIRROR/HEATED EXTERIOR MIRROR LH(DR1)</p> <table border="1"> <tr> <td>B</td> <td>*</td> <td>*</td> <td>R/L</td> </tr> <tr> <td>*</td> <td>BR/Y</td> <td>LG</td> <td>BR</td> </tr> </table>	B	*	*	R/L	*	BR/Y	LG	BR	
BR/W	BR		*	*																									
BR/Y	L/Y	LG	B/O	B																									
B	*	*	R/L																										
*	BR/W	L/Y	BR																										
B	*	*	R/L																										
*	BR/Y	LG	BR																										

HARNES SYMBOL:  (F)  (E)  (R)

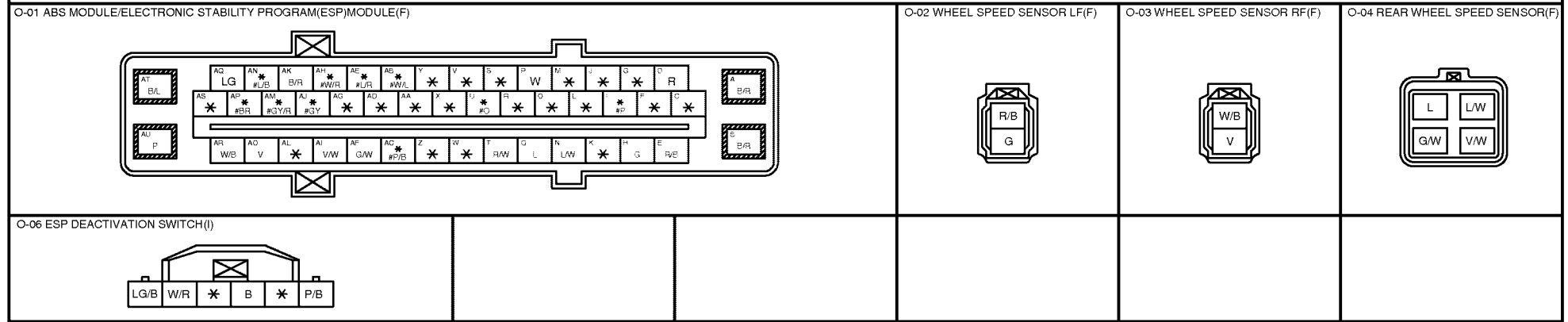


ANTILOCK BRAKE SYSTEM (ABS) / ELECTRONIC STABILITY PROGRAM (ESP)

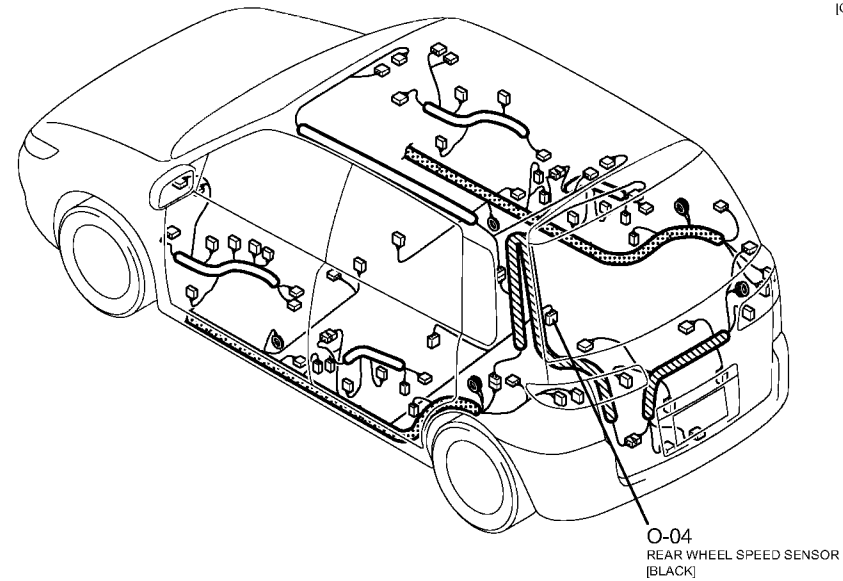
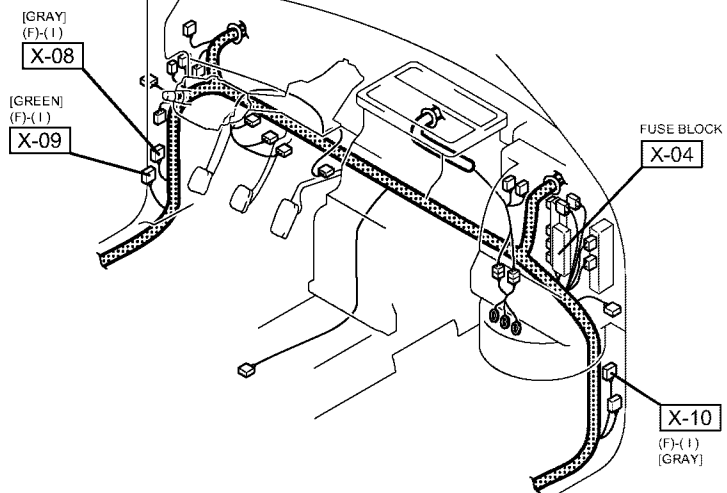
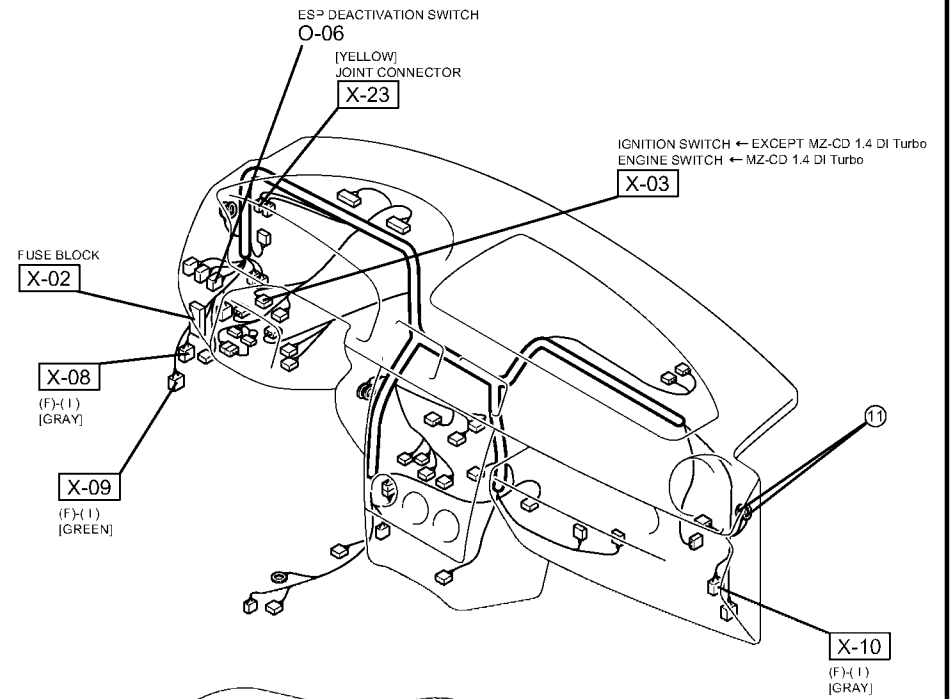
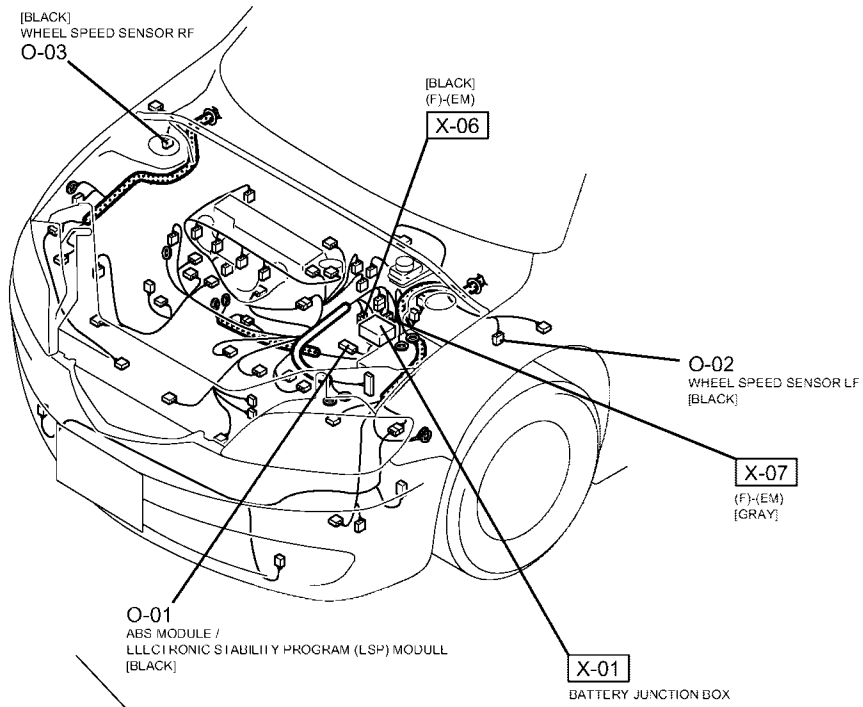
O-a



120



HARNES SYMBOL:  (F)  (E)  (R)

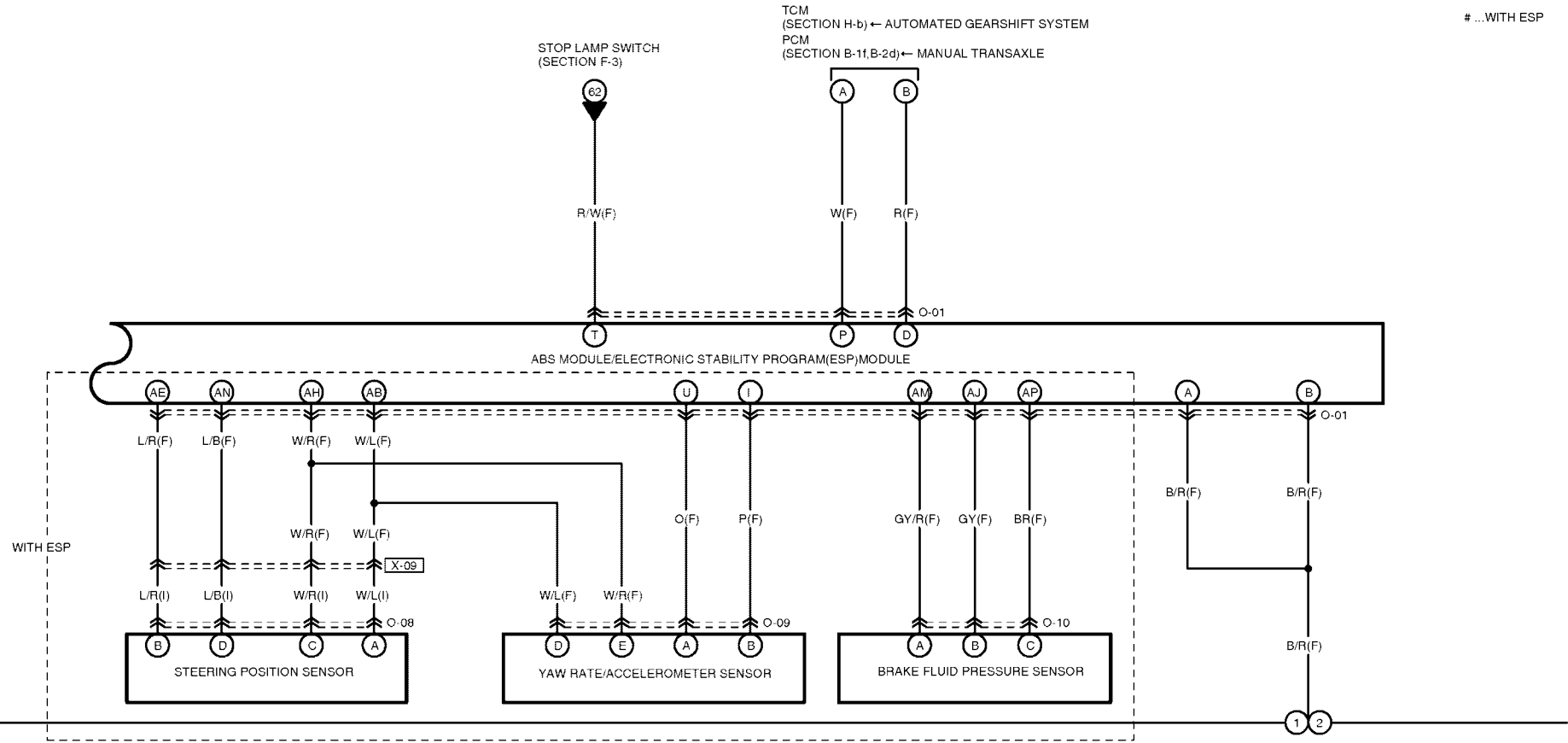


121

ANTILOCK BRAKE SYSTEM (ABS) / ELECTRONIC STABILITY PROGRAM (ESP)

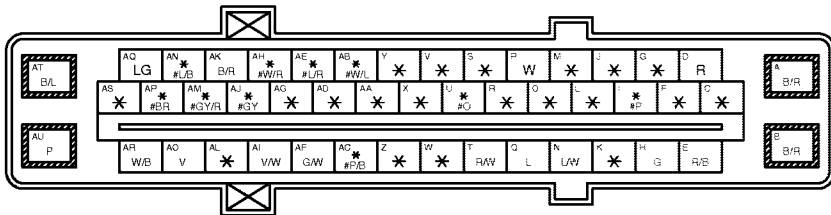
O-b

...WITH ESP

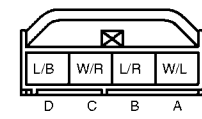


122

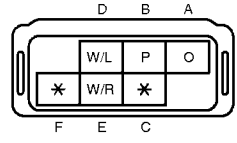
O-01 ABS MODULE/ELECTRONIC STABILITY PROGRAM (ESP)MODULE(F)



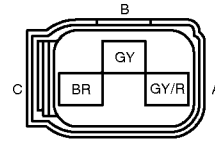
O-08 STEERING POSITION SENSOR(I)



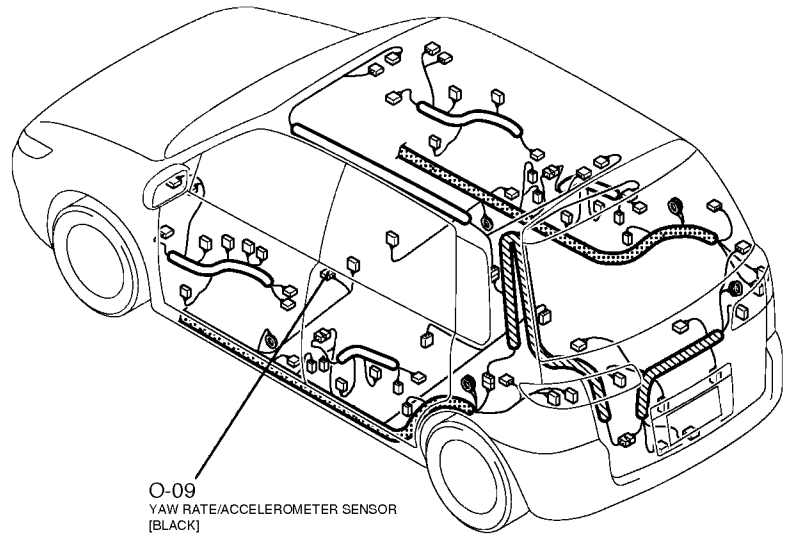
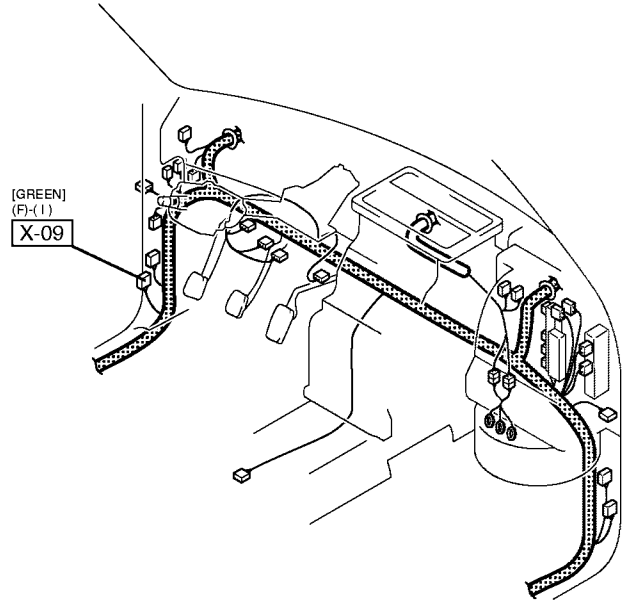
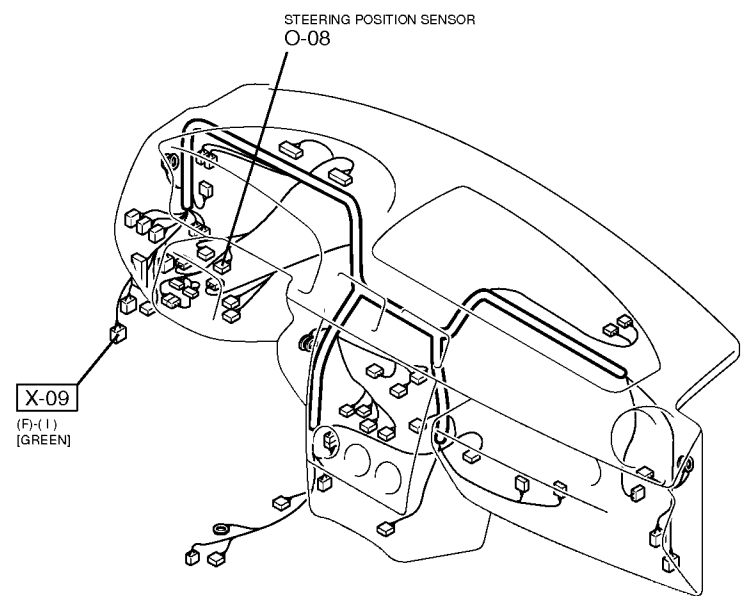
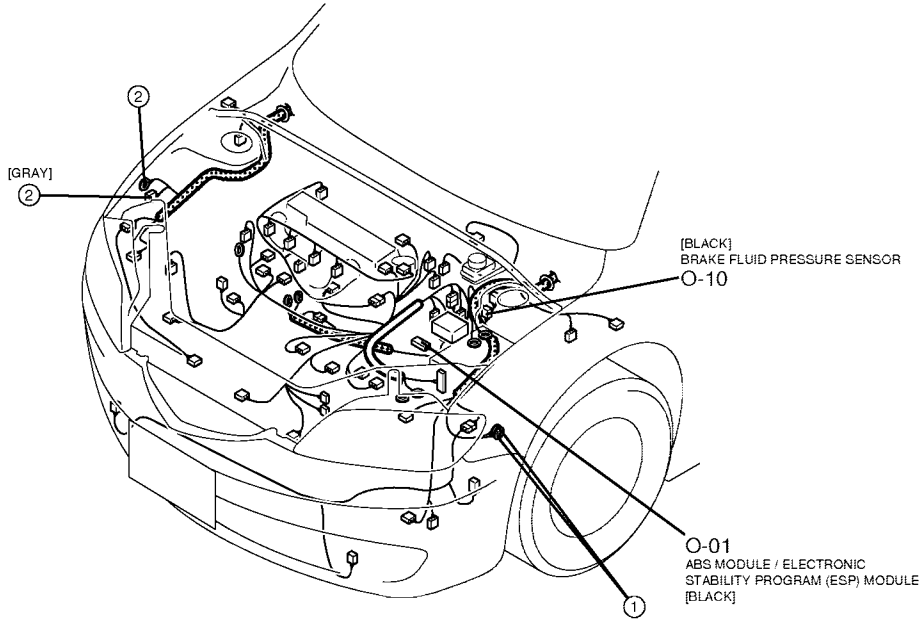
O-09 YAW RATE/ACCELEROMETER SENSOR(F)



O-10 BRAKE FLUID PRESSURE SENSOR(F)

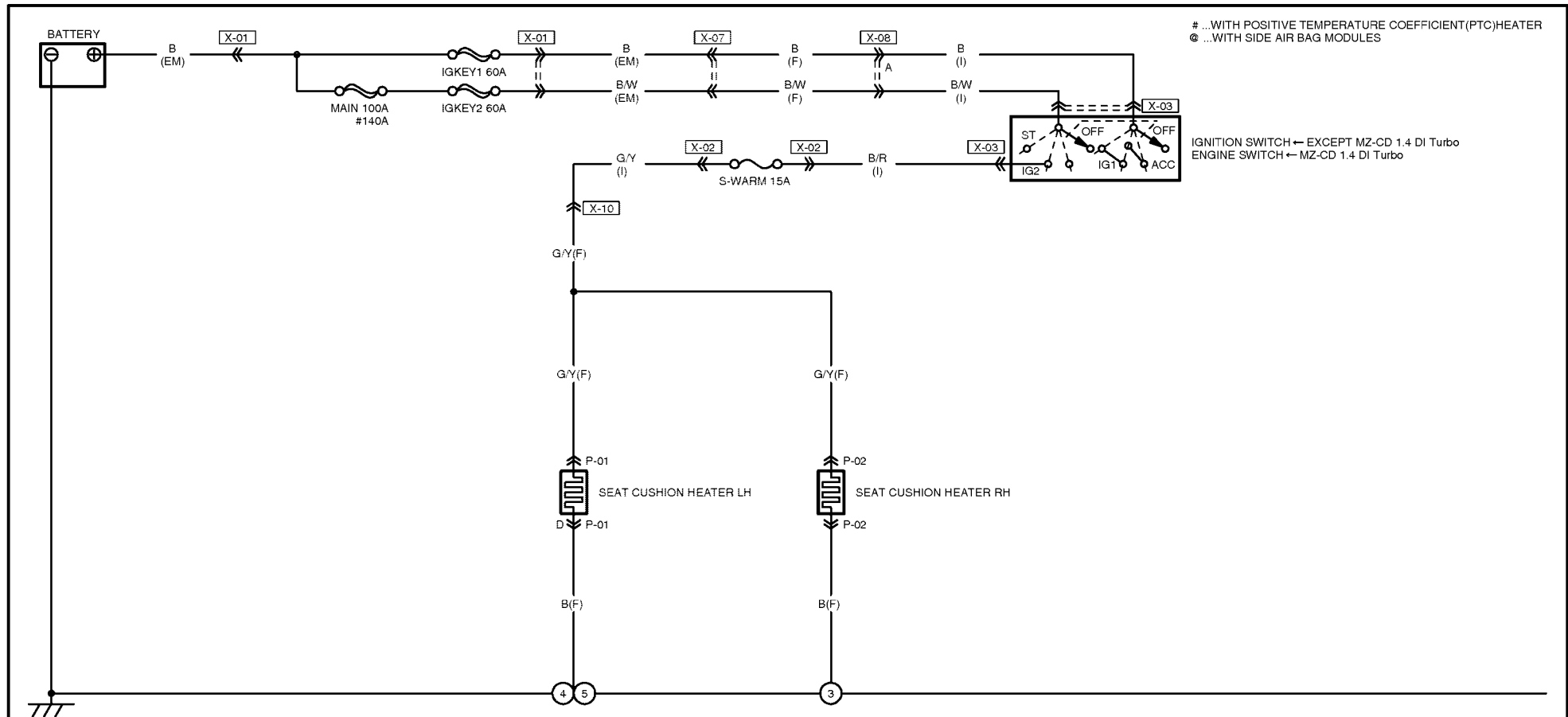


HARNESS SYMBOL:  (F)  (E)  (R)



SEAT CUSHION HEATER

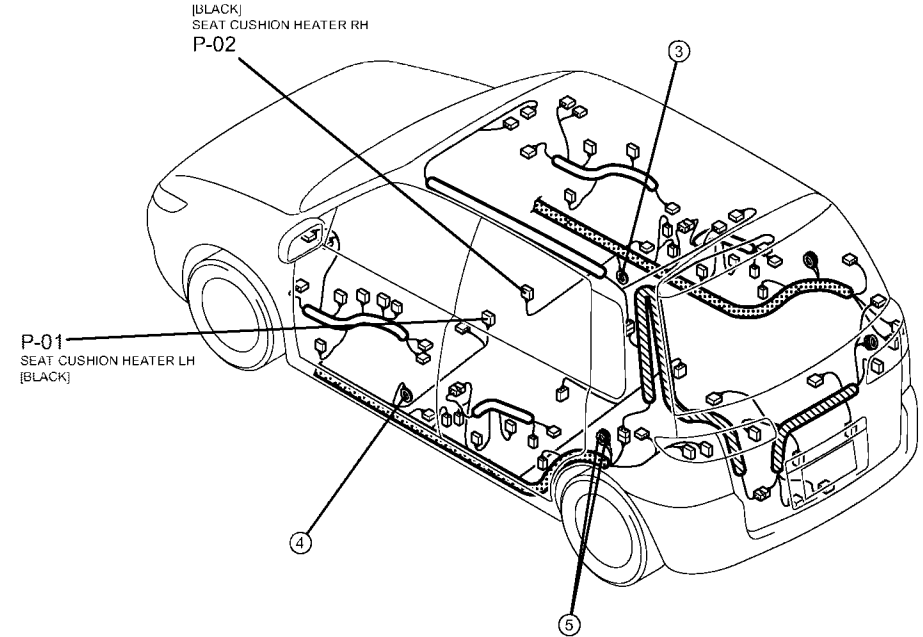
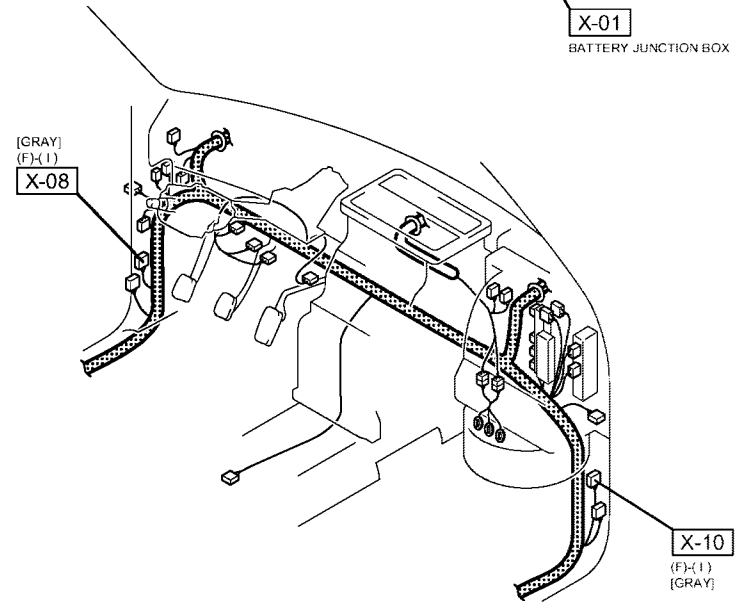
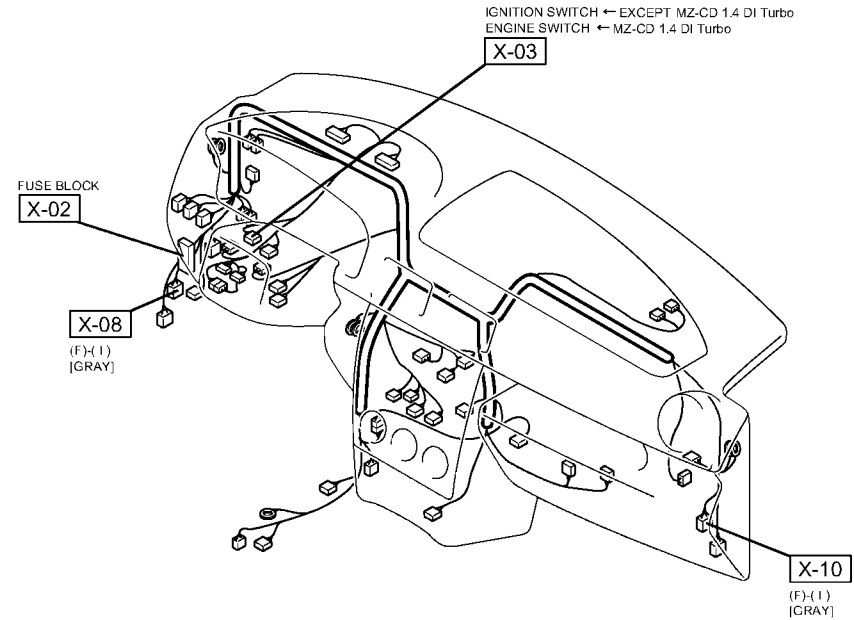
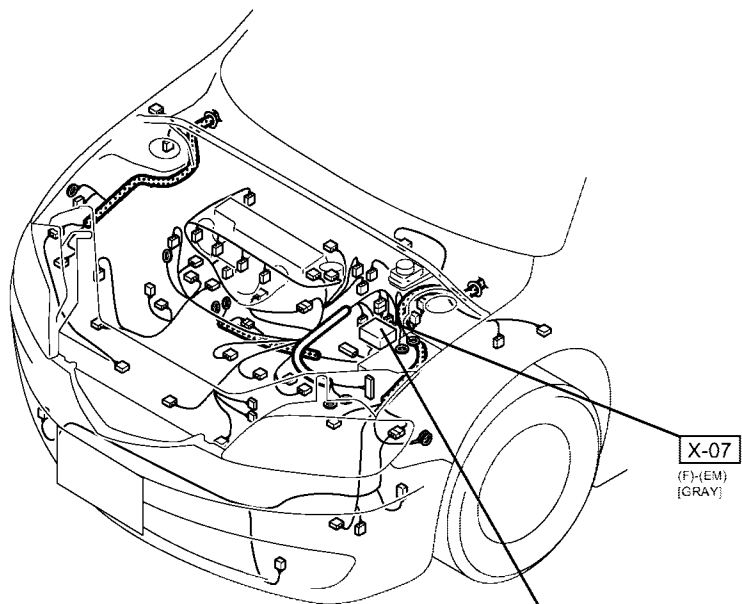
P



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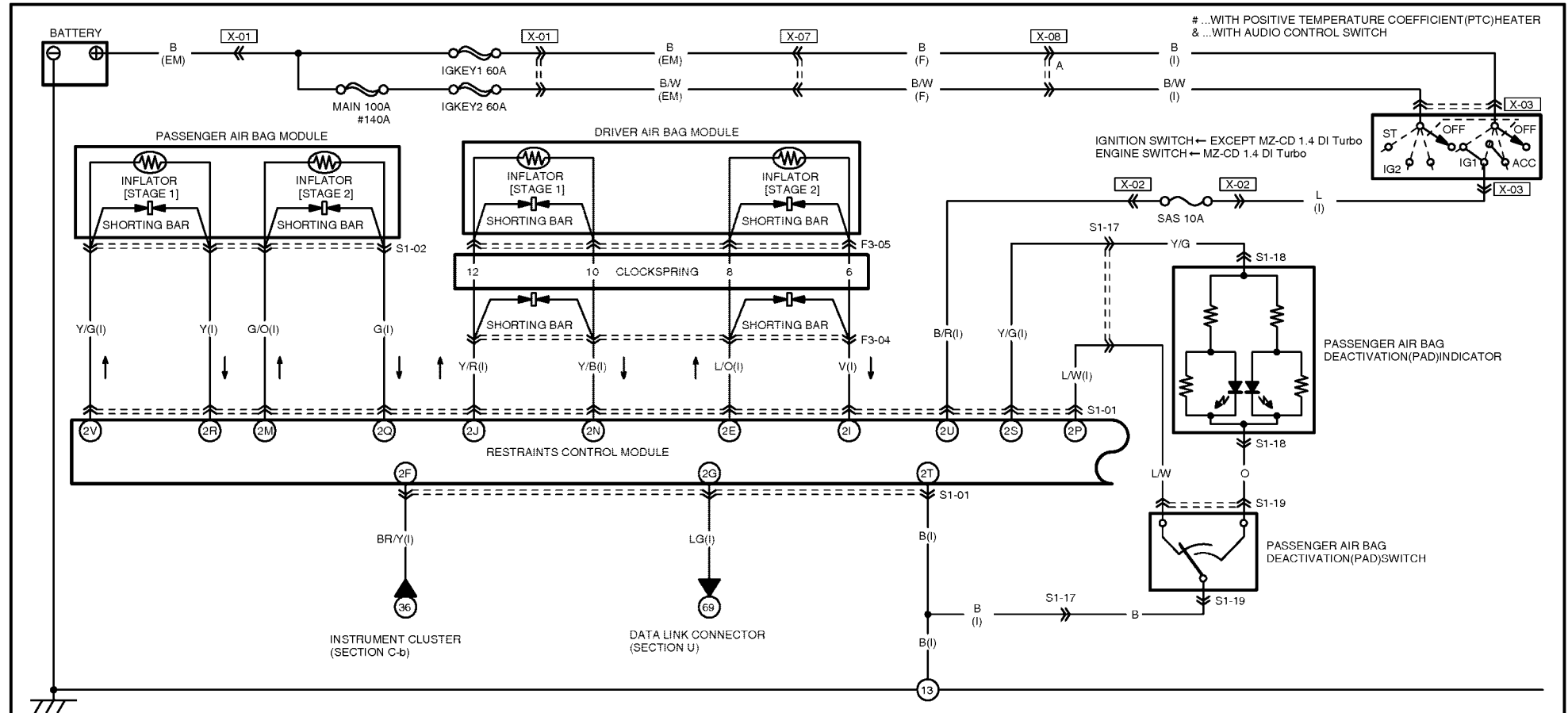
P-01 SEAT CUSHION HEATER LH(F)	P-02 SEAT CUSHION HEATER RH(F)					

HARNES SYMBOL:  (F)  (E)  (R)

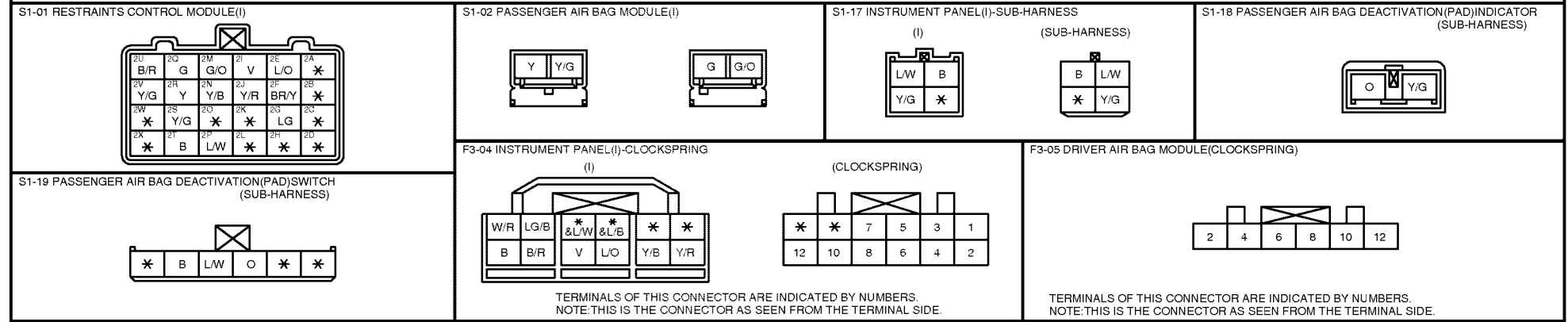


SUPPLEMENTAL RESTRAINT SYSTEM

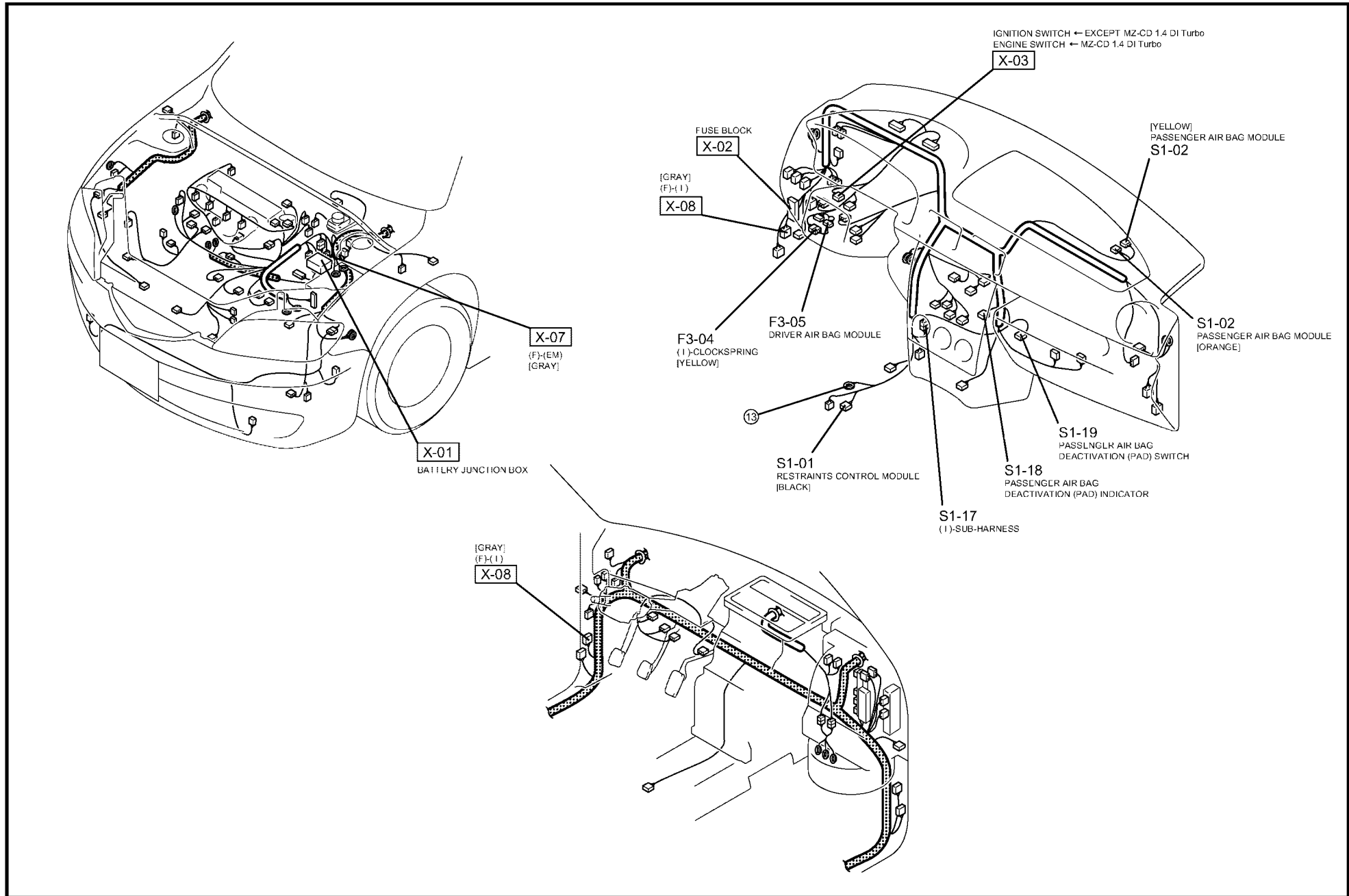
S-1a



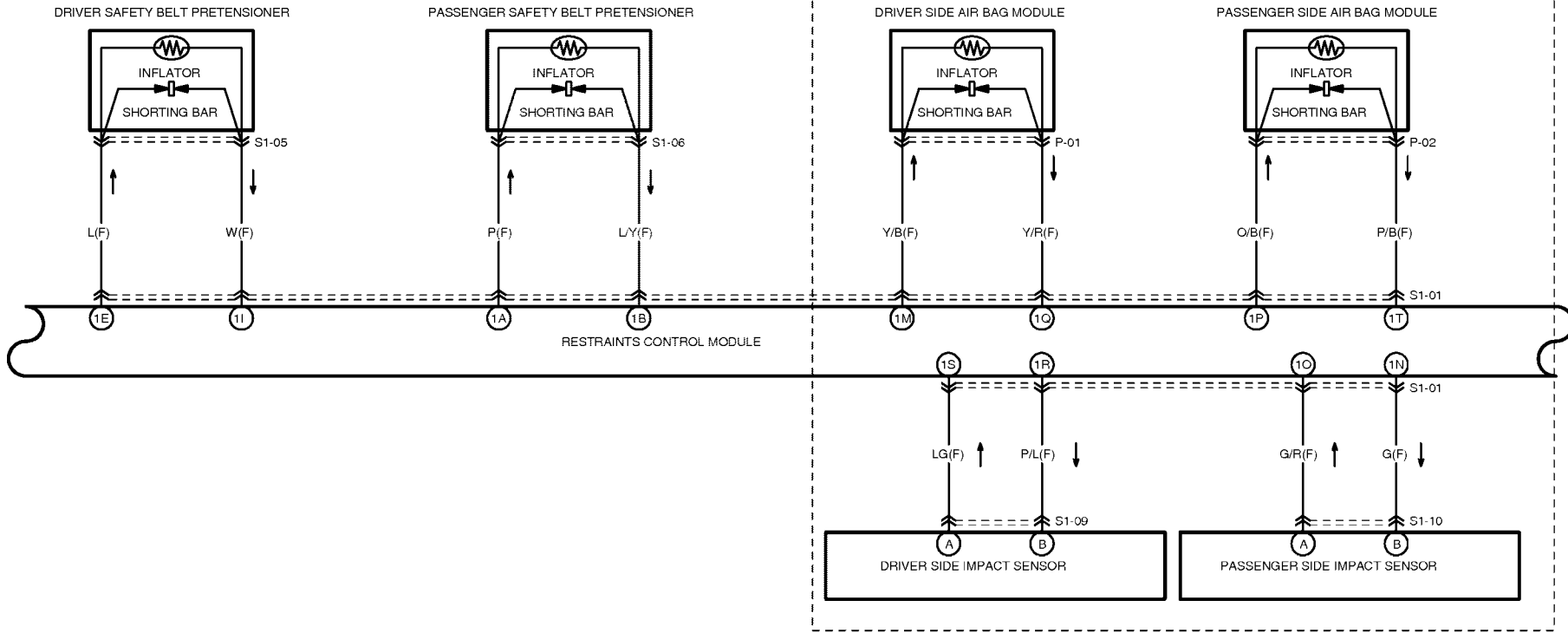
126



HARNES SYMBOL:  (F)  (E)  (R)

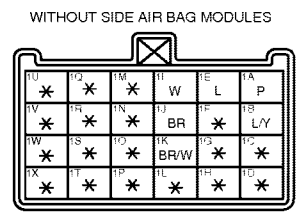
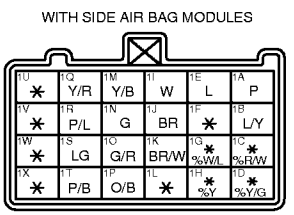


% ...WITH SIDE AIR CURTAIN MODULES
& ...WITH SEAT CUSHION HEATER

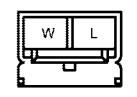


128

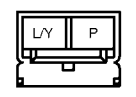
S1-01 RESTRAINTS CONTROL MODULE(F)



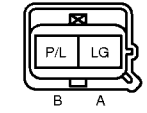
S1-05 DRIVER SAFETY BELT PRETENSIONER(F)



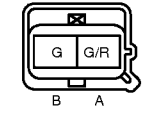
S1-06 PASSENGER SAFETY BELT PRETENSIONER(F)



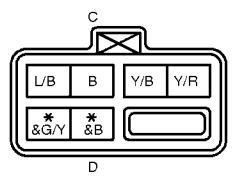
S1-09 DRIVER SIDE IMPACT SENSOR (F)



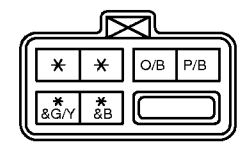
S1-10 PASSENGER SIDE IMPACT SENSOR(F)



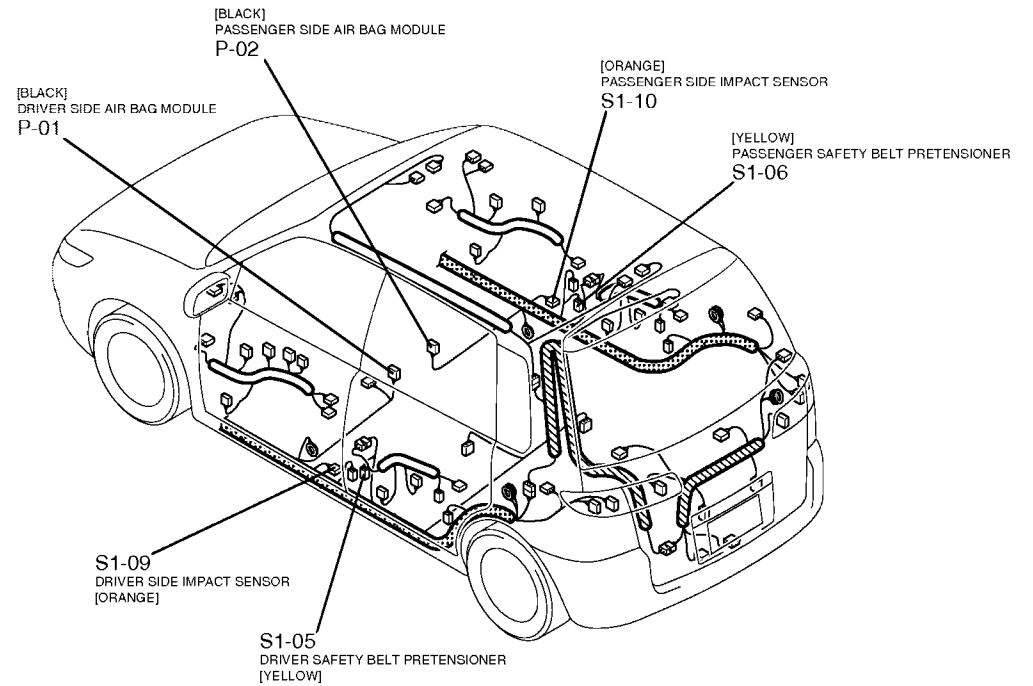
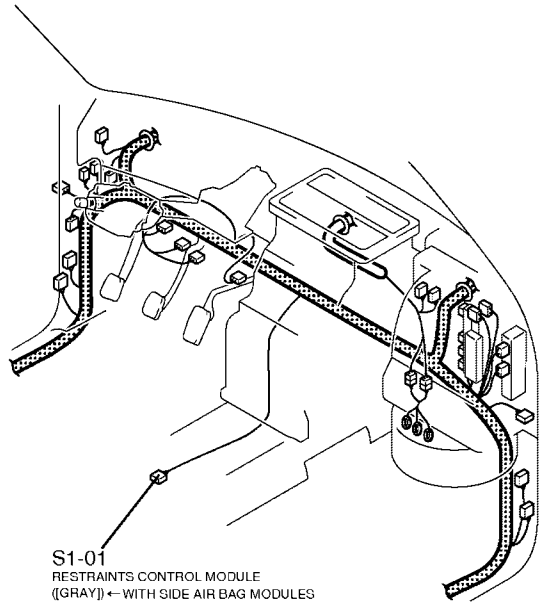
P-01 DRIVER SIDE AIR BAG MODULE(F)

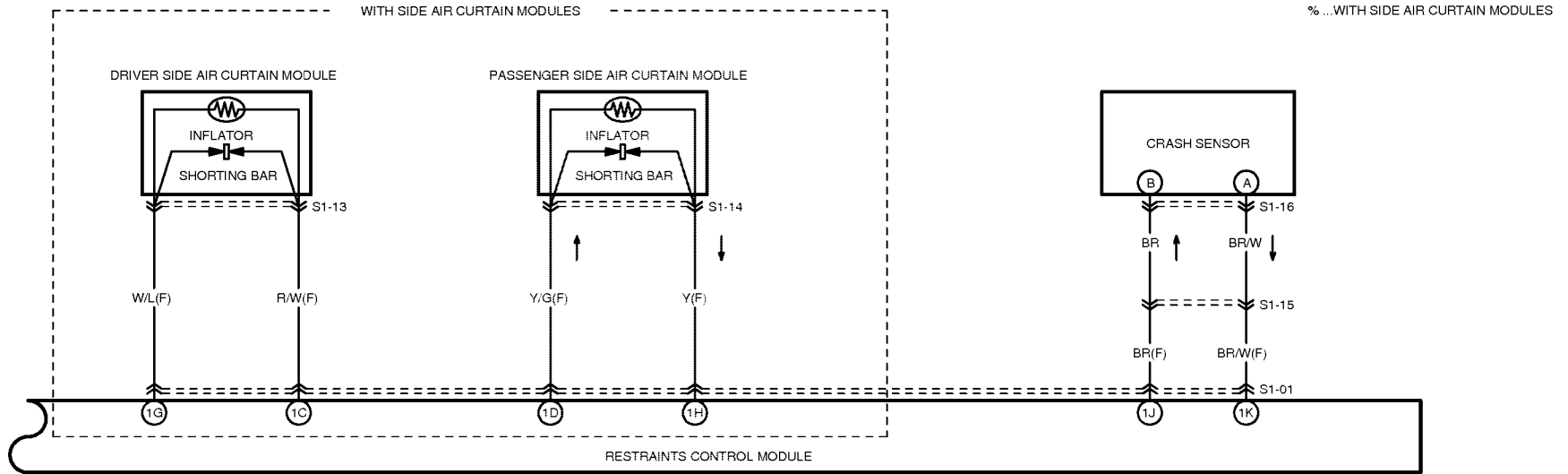


P-02 PASSENGER SIDE AIR BAG MODULE(F)



HARNES SYMBOL:  (F)  (E)  (R)

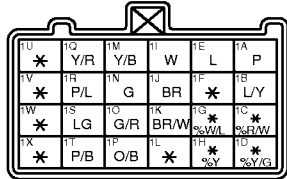




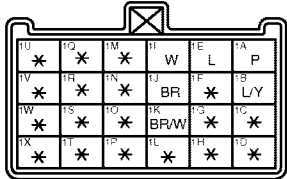
130

S1-01 RESTRAINTS CONTROL MODULE(F)

WITH SIDE AIR BAG MODULES



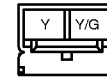
WITHOUT SIDE AIR BAG MODULES



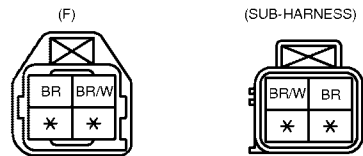
S1-13 DRIVER SIDE AIR CURTAIN MODULE(F)



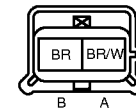
S1-14 PASSENGER SIDE AIR CURTAIN MODULE(F)



S1-15 FRONT(F)-SUB-HARNESS



S1-16 CRASH SENSOR(SUB-HARNESS)



HARNESS SYMBOL:  (F)  (E)  (R)

[GRAY]
(F)-SUB-HARNESS
S1-15

S1-16
CRASH SENSOR
[YELLOW]

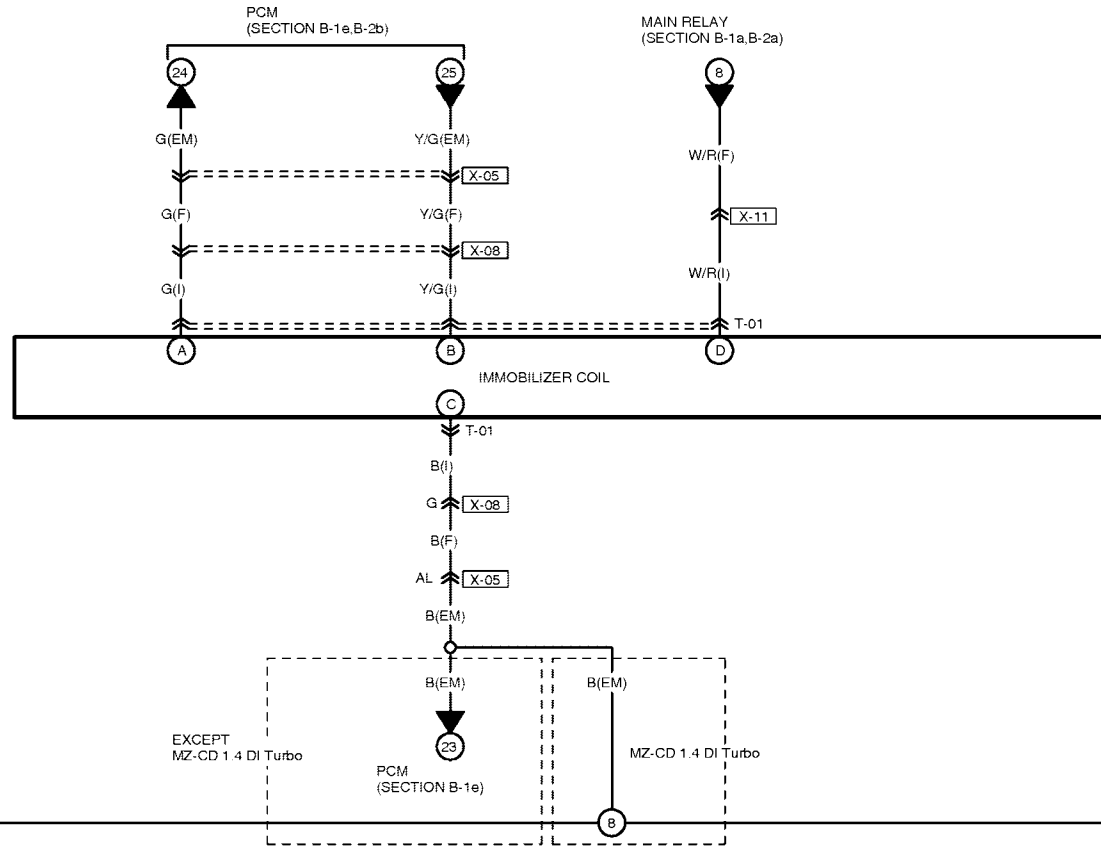
[YELLOW]
PASSENGER SIDE AIR CURTAIN MODULE
S1-14

S1-13
DRIVER SIDE AIR CURTAIN MODULE
[YELLOW]

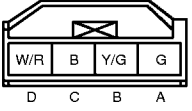
S1-01
RESTRAINTS CONTROL MODULE
[GRAY] ← WITH SIDE AIR BAG MODULES

START INHIBITOR

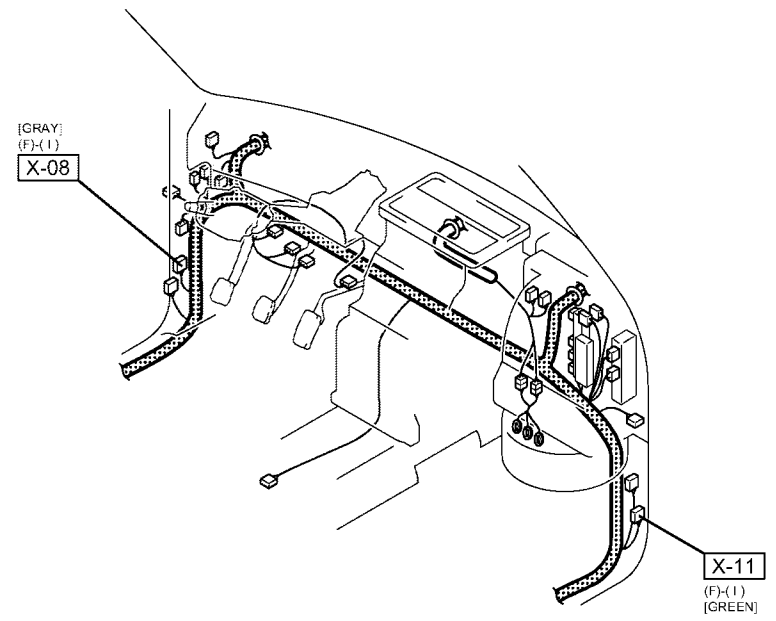
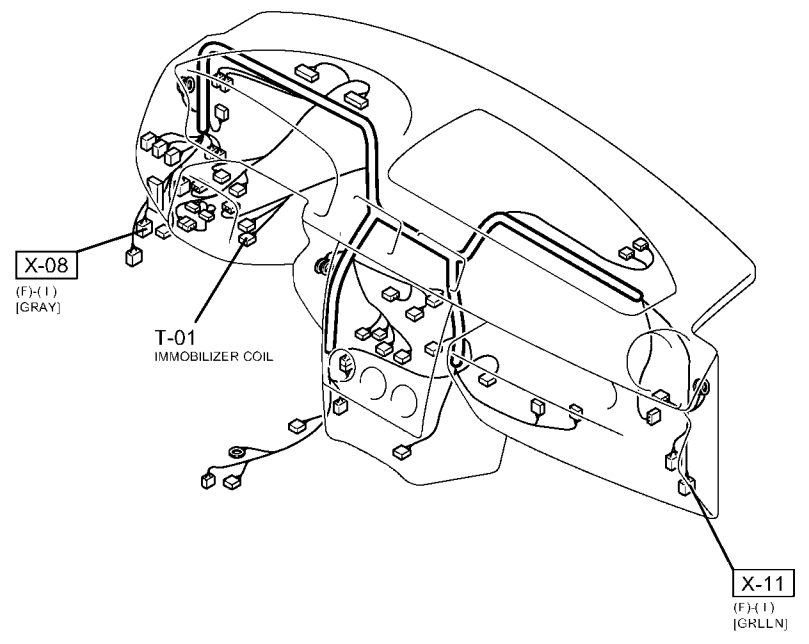
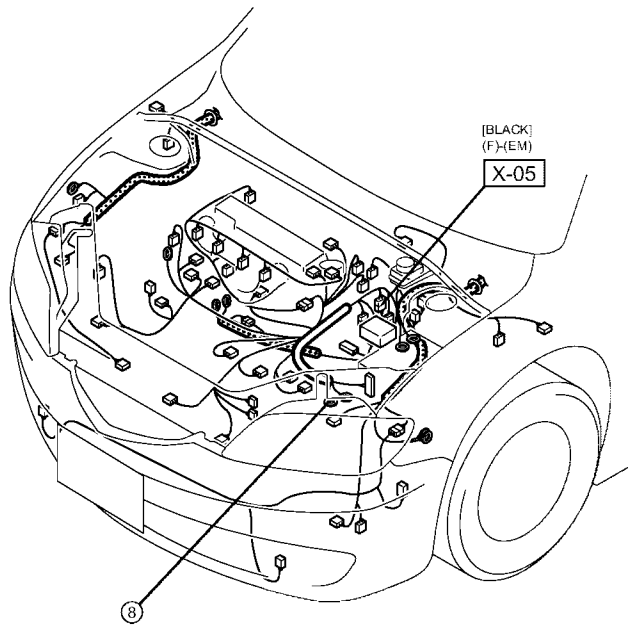
T



T-01 IMMOBILIZER COIL (I)

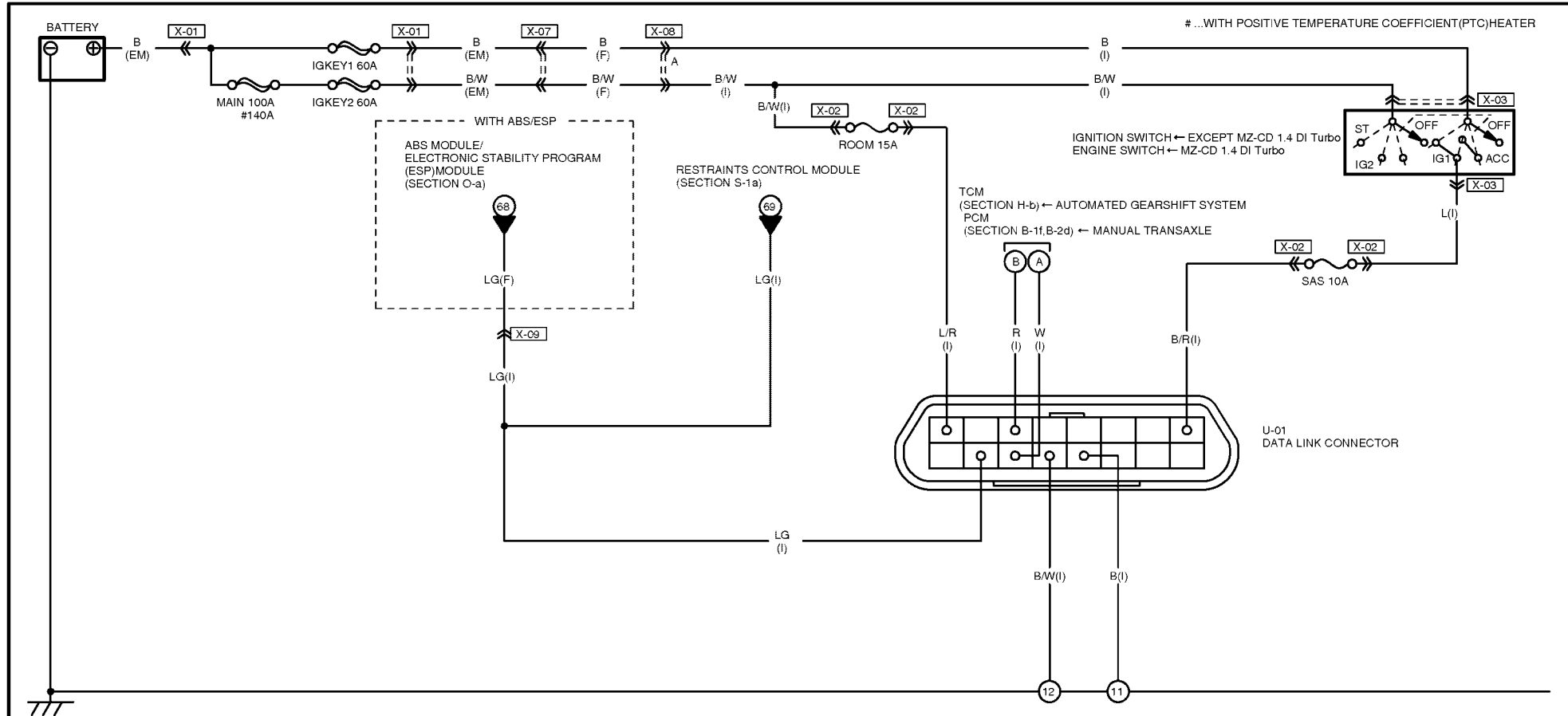


HARNESS SYMBOL:  (F)  (E)  (R)



DATA LINK CONNECTOR

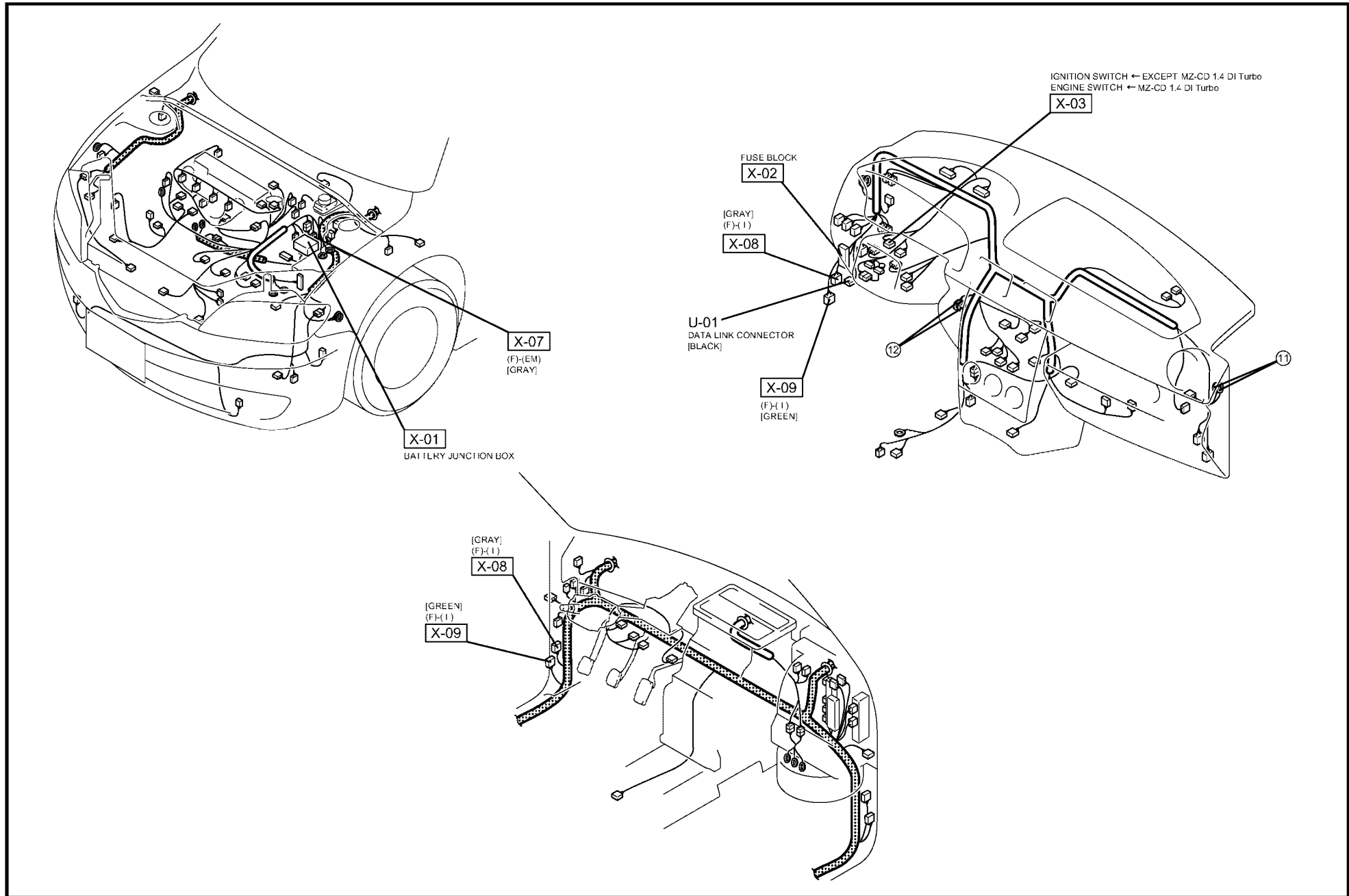
U



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<p>U-01 DATA LINK CONNECTOR(I)</p> <p>NOTE: THIS IS THE CONNECTOR AS SEEN FROM THE TERMINAL SIDE.</p>					
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HARNES SYMBOL:  (F)  (E)  (R)

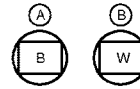
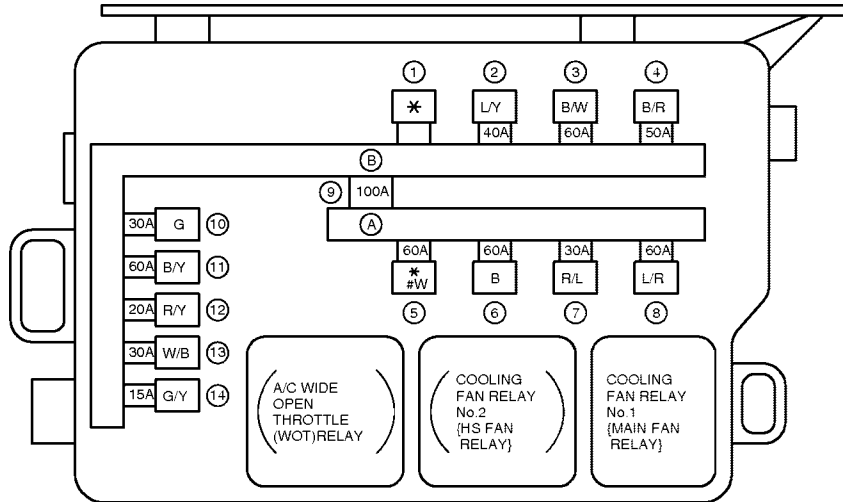


COMMON CONNECTOR LIST

X-1

X-01 BATTERY JUNCTION BOX(EM)

EXCEPT MZ-CD 1.4 Di Turbo



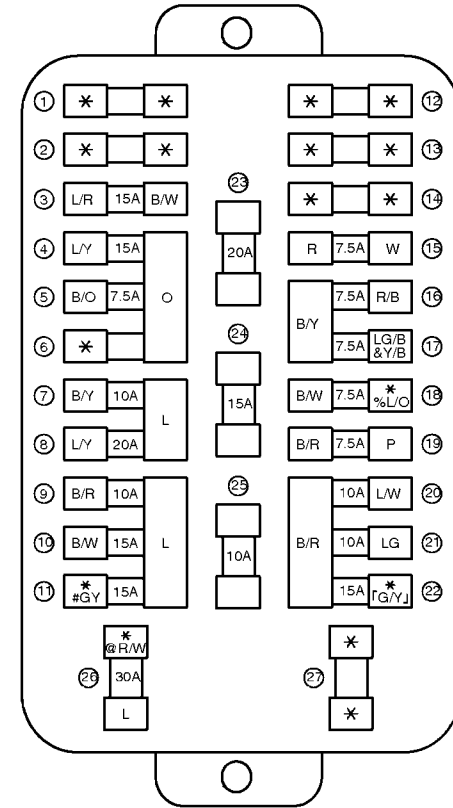
- | | |
|------------|---------|
| ① — | ⑧ ENG |
| ② BLOWER | ⑨ MAIN |
| ③ IGKEY2 | ⑩ DEF |
| ④ MAIN FAN | ⑪ ABS |
| ⑤ (ASM) | ⑫ P/W D |
| ⑥ IGKEY1 | ⑬ D/L |
| ⑦ H/L | ⑭ FOG |

NOTE: THIS IS THE CONNECTOR AS SEEN FROM THE TERMINAL SIDE.

{ } CAUTION LABEL TITLE
() IF EQUIPPED

X-02 FUSE BLOCK(I)

...AUTOMATED GEARSHIFT SYSTEM @ ...WITH POWER WINDOWS
% ...WITH A/C † ...WITH SEAT CUSHION HEATER
& ...WITH DAYTIME RUNNING LAMP



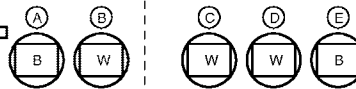
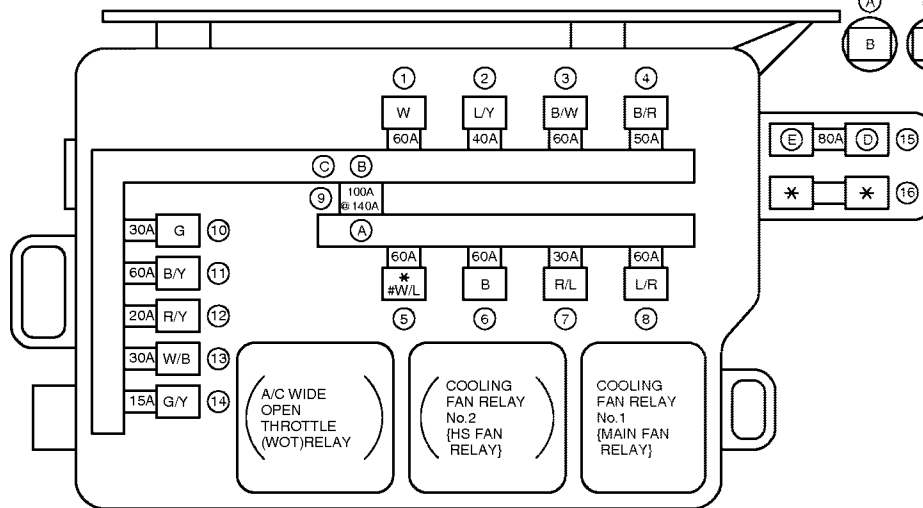
{ } IF EQUIPPED
NOTE: THIS IS THE CONNECTOR AS SEEN FROM THE TERMINAL SIDE.

- | | | |
|------------|---------------|------------|
| ① — | ⑩ ENGINE | ⑲ (A/C) |
| ② — | ⑪ (A/T) | ⑳ (R.WIP) |
| ③ ROOM | ⑫ — | ㉑ BACK |
| ④ CIGAR | ⑬ — | ㉒ (S-WARM) |
| ⑤ (MIRROR) | ⑭ — | ㉓ SPARE |
| ⑥ — | ⑮ (ST.SIG) | ㉔ SPARE |
| ⑦ METER | ⑯ TAIL | ㉕ SPARE |
| ⑧ WIPER | ⑰ ILLUMI | ㉖ (P.WIND) |
| ⑨ SAS | ⑱ (MG.CLUTCH) | ㉗ — |

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...AUTOMATED GEARSHIFT SYSTEM
@ ...WITH POSITIVE TEMPERATURE COEFFICIENT(PTC)HEATER

MZ-CD 1.4 Di Turbo



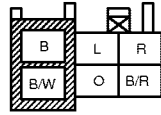
- | | |
|---------------|------------|
| ① (GLOW/PTC1) | ⑨ MAIN |
| ② BLOWER | ⑩ DEF |
| ③ IGKEY2 | ⑪ ABS |
| ④ MAIN FAN | ⑫ P/W D |
| ⑤ (ASM) | ⑬ D/L |
| ⑥ IGKEY1 | ⑭ FOG |
| ⑦ H/L | ⑮ PTC HTR2 |
| ⑧ ENG | ⑯ — |

NOTE: THIS IS THE CONNECTOR AS SEEN FROM THE TERMINAL SIDE.

{ } CAUTION LABEL TITLE
() IF EQUIPPED

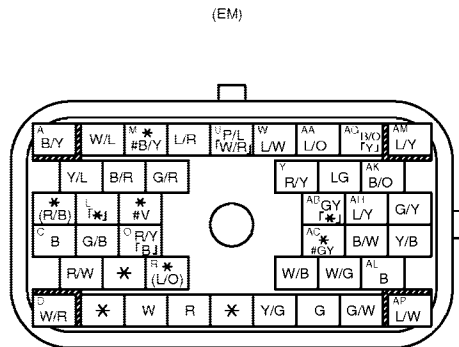
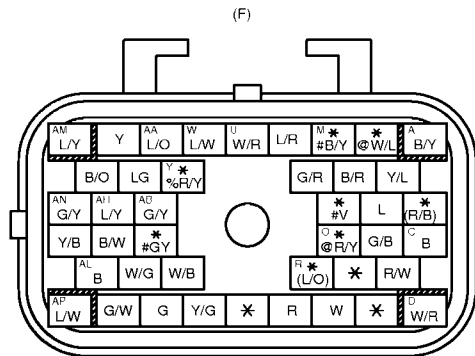
COMMON CONNECTOR LIST

X-03 IGNITION SWITCH(I) ← EXCEPT MZ-CD 1.4 DI Turbo
ENGINE SWITCH(I) ← MZ-CD 1.4 DI Turbo

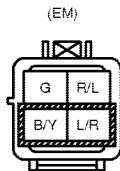
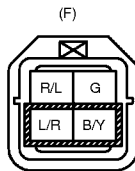


X-05 FRONT(F)-EMISSION(EM)

... AUTOMATED GEARSHIFT SYSTEM
@ ... WITHOUT ABS/ESP
% ... WITH POWER WINDOWS
() ... WITH A/C
f ... MZ-CD 1.4 DI Turbo

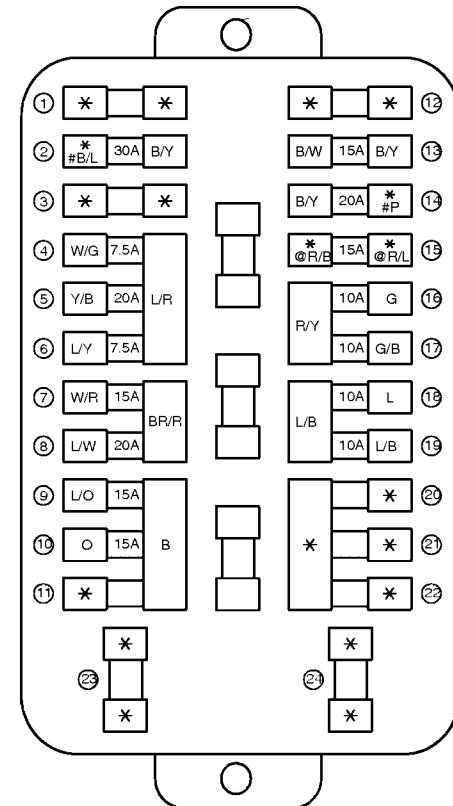


X-06 FRONT(F)-EMISSION(EM)



X-04 FUSE BLOCK(F)

... WITH ABS/ESP
@ ... WITH EXTERIOR MIRROR

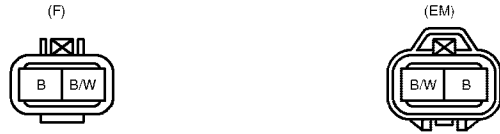


NOTE: THIS IS THE CONNECTOR AS SEEN FROM THE TERMINAL SIDE.

- | | | |
|-----------|-------------|-------------|
| ① — | ⑨ STOP | ⑰ H/L LH HI |
| ② ABS-P | ⑩ HAZARD | ⑱ H/L RH LO |
| ③ — | ⑪ — | ⑲ H/L LH LO |
| ④ ALT SIG | ⑫ — | ⑳ — |
| ⑤ FUEL | ⑬ TNS | ㉑ — |
| ⑥ ENG.+B | ⑭ ABS-V | ㉒ — |
| ⑦ ENG.BA | ⑮ M.DEF | ㉓ — |
| ⑧ ENG.BAR | ⑯ H/L RH HI | ㉔ — |

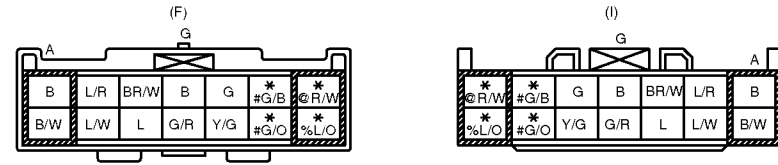
COMMON CONNECTOR LIST

X-07 FRONT(F)-EMISSION(EM)



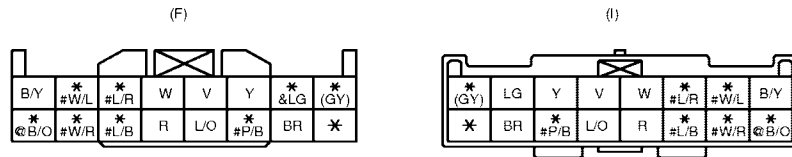
X-08 FRONT(F)-INSTRUMENT PANEL(I)

... WITH 6 SPEAKER
 @ ... WITH POWER WINDOWS
 % ... WITH A/C



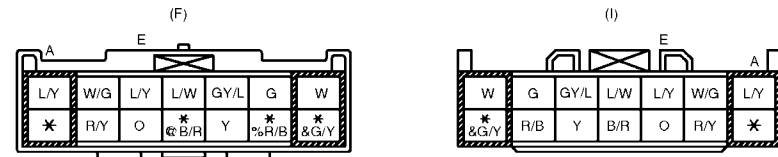
X-09 FRONT(F)-INSTRUMENT PAEL(I)

... WITH ESP
 () ... AUTOMATED GEARSHIFT SYSTEM
 & ... WITH ABS/ESP
 @ ... WITH EXTERIOR MIRROR



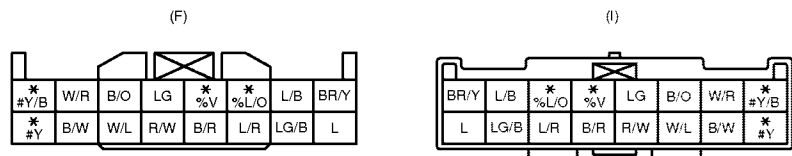
X-10 FRONT(F)-INSTRUMENT PANEL(I)

@ ... WITH ABS/ESP
 % ... WITH A/C
 & ... WITH SEAT CUSHION HEATER

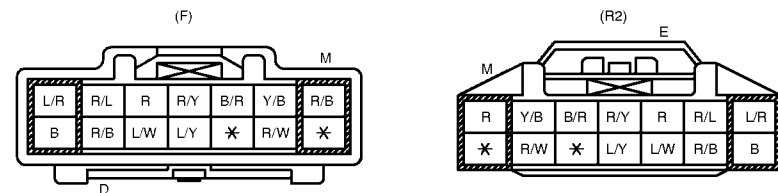


X-11 FRONT(F)-INSTRUMENT PANEL(I)

... WITH 6 SPEAKER
 % ... AUTOMATED GEARSHIFT SYSTEM



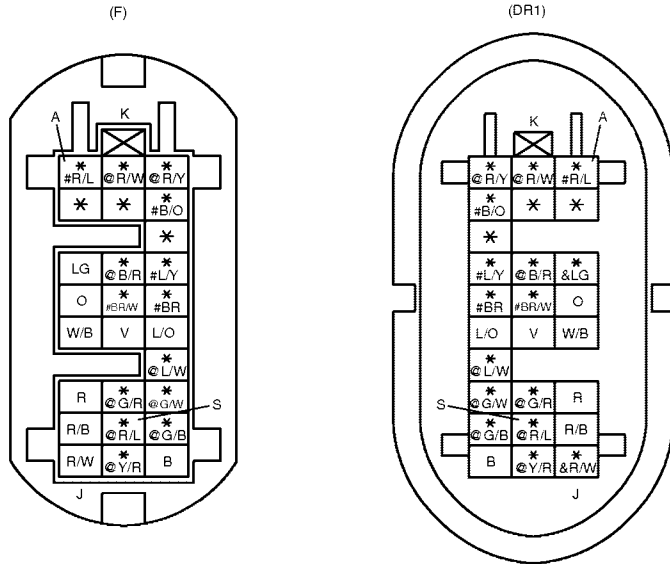
X-12 FRONT(F)-REAR No.2(R2)



COMMON CONNECTOR LIST

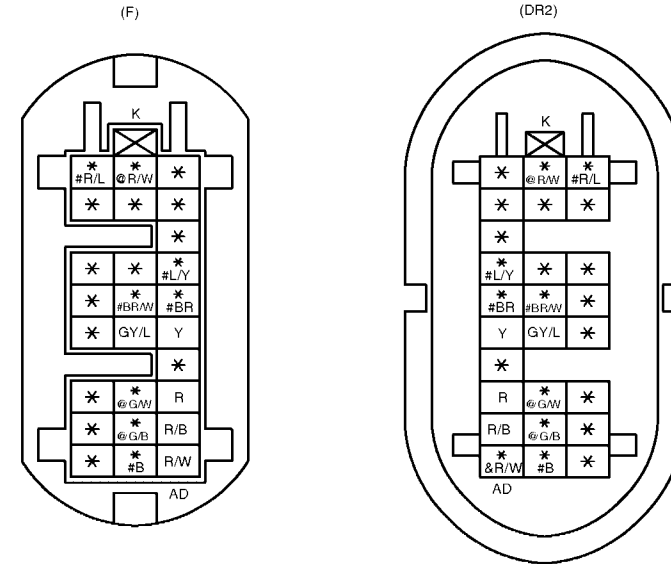
X-13 FRONT(F)-DOOR No.1(DR1)

...WITH EXTERIOR MIRROR
 @ ...WITH POWER WINDOWS
 & ...WITH DOUBLE LOCKING



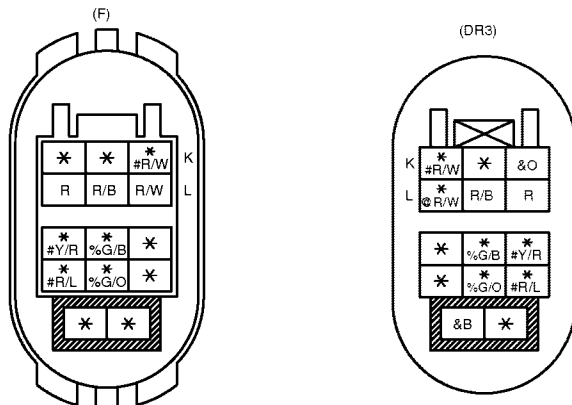
X-14 FRONT(F)-DOOR No.2(DR2)

...WITH EXTERIOR MIRROR
 @ ...WITH POWER WINDOWS
 & ...WITH DOUBLE LOCKING



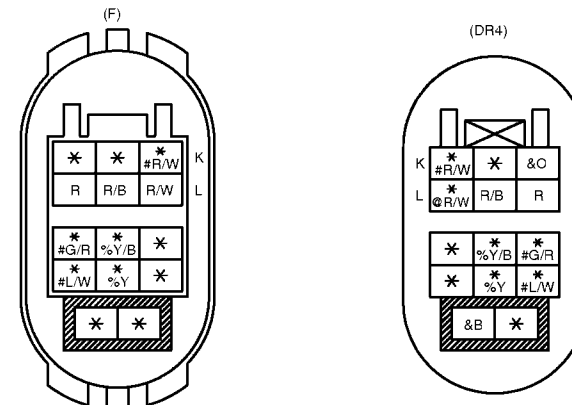
X-15 FRONT(F)-DOOR No.3(DR3)

...WITH POWER WINDOWS
 @ ...WITH DOUBLE LOCKING
 % ...WITH 6 SPEAKER
 & ...NOT USED



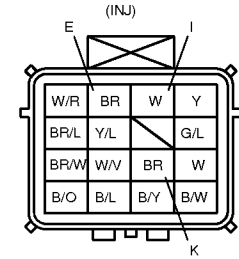
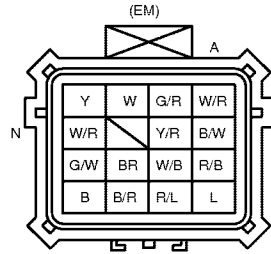
X-16 FRONT(F)-DOOR No.4(DR4)

...WITH POWER WINDOWS
 @ ...WITH DOUBLE LOCKING
 % ...WITH 6 SPEAKER
 & ...NOT USED

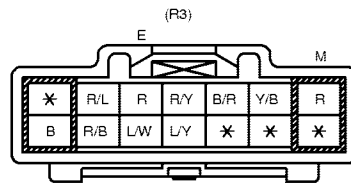
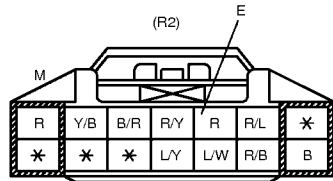


COMMON CONNECTOR LIST

X-17 EMISSION(EM)-INJECTION(INJ)

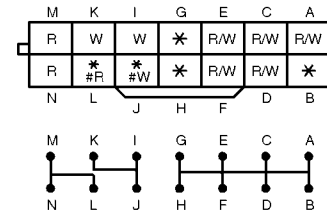


X-19 REAR No.2(R2)-REAR No.3(R3)

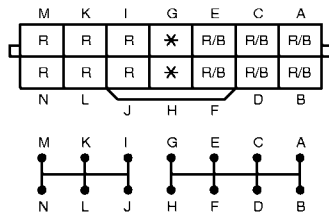


X-20 JOINT CONNECTOR(F)

...WITH ABS/ESP

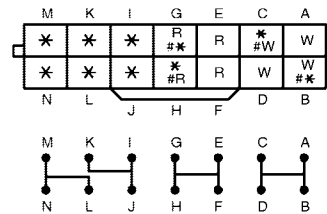


X-21 JOINT CONNECTOR(F)



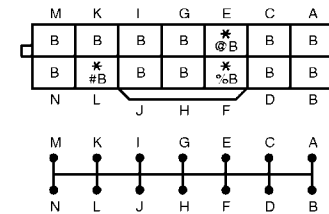
X-22 JOINT CONNECTOR(I)

...AUTOMATED GEARSHIFT SYSTEM



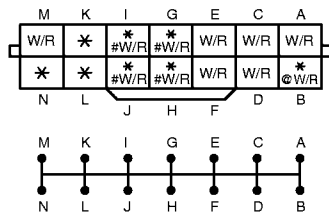
X-23 JOINT CONNECTOR(I)

...WITHOUT AUDIO SYSTEM
@ ...WITH DAYTIME RUNNING LAMP
% ...WITH ESP



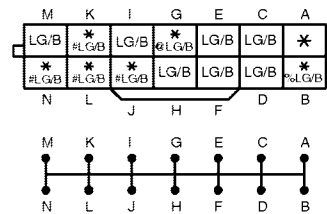
X-24 JOINT CONNECTOR(I)

...WITHOUT AUDIO SYSTEM
@ ...WITH ESP

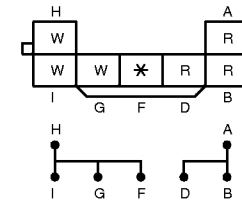


X-25 JOINT CONNECTOR(I)

...WITHOUT AUDIO SYSTEM
@ ...AUTOMATED GEARSHIFT SYSTEM
% ...WITH ESP



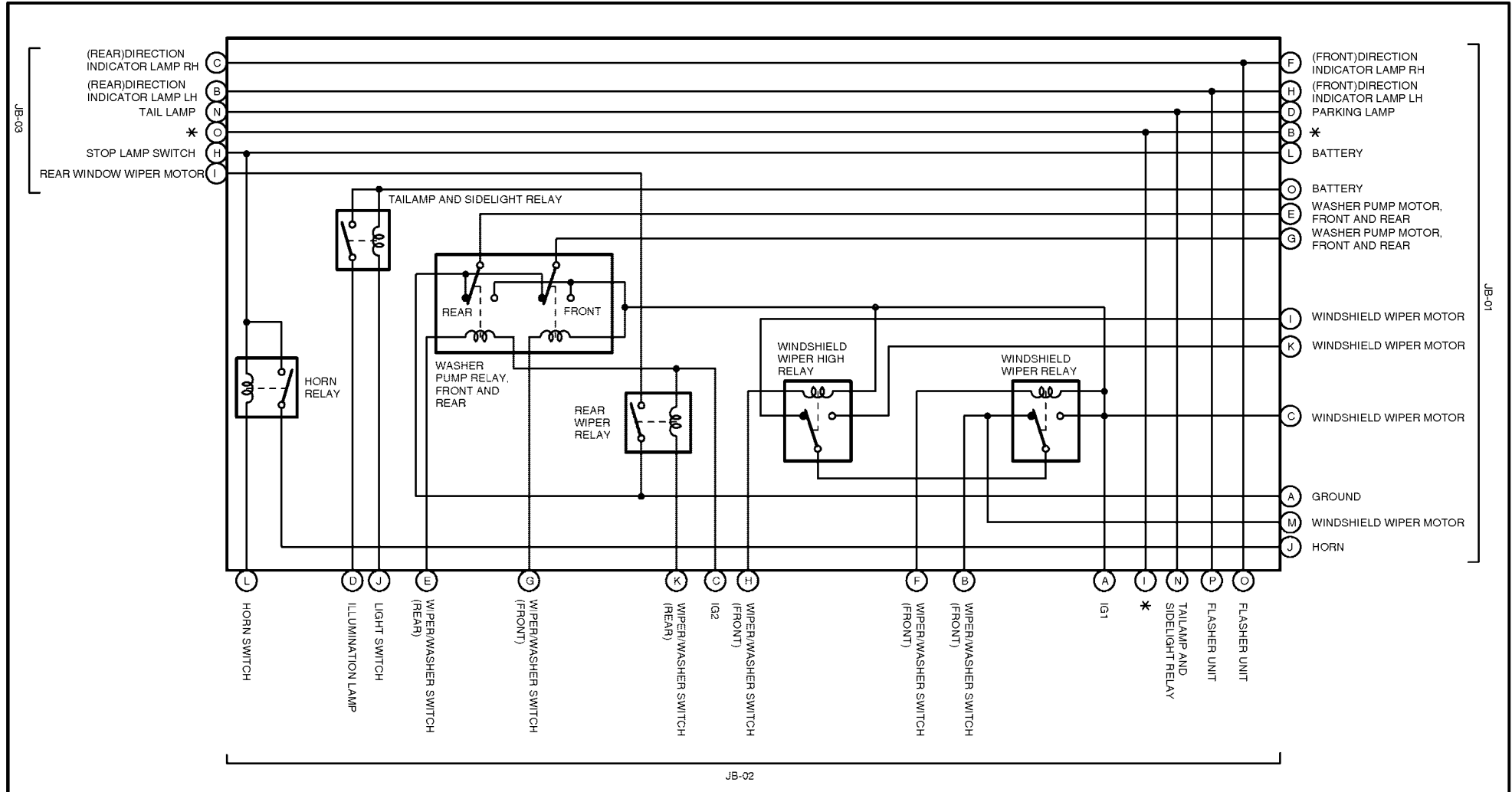
X-26 JOINT CONNECTOR(I)



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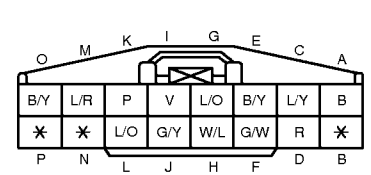
JOINT AND RELAY BOX

JB

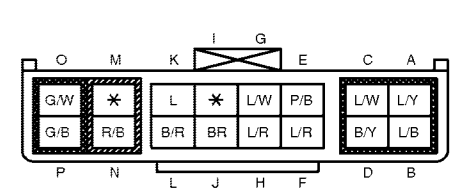


142

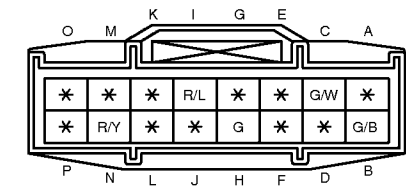
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JB-02 INSTRUMENT PANEL HARNESS(I)



JB-03 FRONT HARNESS(F)



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