

GENERAL INFORMATION

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IMPORTANT SAFETY NOTICE

GENERAL DESCRIPTION

1. The vehicle is a machine comprising a great number of parts. Basically speaking, the vehicle is potentially hazard. However, one can handle it safely if he has the required knowledge.
2. Correct service methods and repair procedures are very vital for assuring not only the safety and reliability of a vehicle, but also the safety of service personnel concerned.
3. The methods and procedures contained in this manual describe in a general way the techniques which the manufacturer has recommended. Thus, they will contribute to ensuring the reliability of the products. The contents of the servicing operations come in a wide variety of ways. Moreover, techniques, tools and parts necessary for each operation are different widely from each other.
4. This manual does not cover all details of techniques, procedures, parts, tools and handling instructions which are necessary for these operations, for such coverage is impossible. Hence, any one who obtains this manual is expected first to make his responsible selection as to techniques, tools and parts which are necessary for servicing the vehicle concerned properly. Furthermore, he must assume responsibility for his actions in connection with his own safety.
5. Therefore, one should not perform any service if he is not capable of making responsible selection and/or if he can not understand the contents herein described, for this manual has been prepared for experienced service personnel.

GI00001

WARNING, CAUTION AND NOTE

1. All these symbols have their specific purposes, respectively.

WARNING

- This symbol means that there is the possibility of personal injury of the operator himself or the nearby workers if the operator fails to follow the operating procedure prescribed in this manual.

CAUTION

- This symbol means that there is the possibility of damage to the component being repaired if the operator fails to follow the operating procedure prescribed in this manual.

NOTE

- To accomplish the operation in an efficient manner, additional instructions concerning the operation are given in this section.

GI00002

GENERAL WARNINGS**Warning over the whole service operations**

1. Always wear safety glasses for eye protection.
2. Use safety stands whenever a procedure requires you to be under the vehicle.
3. Be sure that the ignition switch is always in the OFF position, unless otherwise required by the procedure.
4. Set the parking brake when working on the vehicle.
5. Operate the engine only in a well-ventilated area to avoid the danger of carbon monoxide.
6. Keep yourself and your clothing away from moving parts, when the engine is running, especially from the fan and belts.
7. To prevent serious burns, avoid contact with hot metal parts such as the radiator, exhaust manifold, tail pipe, catalytic converter and muffler.
8. Do not smoke while working on a vehicle.
9. To avoid injury, always remove rings, watches, loose hanging jewelry, and loose clothing before beginning to work on a vehicle.
10. Keep hands and other objects clear of the radiator fan blades! The electric cooling fan is mounted on the radiator and can start to operate anytime by a rise in coolant temperature or turning ON of the air conditioner switch in the case of vehicles equipped with an air conditioner. The electric cooling fan is also mounted on the condenser for air conditioner and starts to operate anytime when the air conditioner switch is turned ON. For this reason, care should be taken to ensure that the electric cooling fan motor is completely disconnected when working under the hood.

PRECAUTION FOR VEHICLES EQUIPPED WITH SRS AIRBAG AND SEAT BELT PRETENSIONER

INSTRUCTIONS FOR SERVICE OPERATION

1. Ensure to perform the service operation for the vehicle equipped with the air bag and pretensioner seat belt according to the correct procedure and method, otherwise, the air bag or pretensioner may lead the malfunction and lead serious accident during the operation. And ensure to perform the service operation for the vehicle equipped with air bag and pretensioner according to the correct procedure and method described in this manual by reading out following items well.

GI00004

PRECAUTION PRIOR TO SERVICE OPERATION

1. Commence to perform the operation to remove the related parts of the air bag and pretensioner after 60 seconds following to the next sequence, after confirm the lighting condition of warning lamp, put ignition switch OFF(LOCK) and remove the negative terminal of battery.

WARNING

- There may be possibility for malfunction of air bag if commence the operation within 60 seconds.

NOTE

- As air bag system provides the back up capacitor (for ignition purpose), about 60 seconds are necessary as discharging time even though removed the battery negative terminal. (natural discharge)

GI00005

CAUTION

- Be careful that memory of computer of other system (such as engine control) may be erased simultaneously when removed the battery negative terminal.
2. Ensure to use the digital circuit tester for the electric inspection of the vehicle equipped with the air bag, pretensioner seat belt, and use the circuit tester which satisfies the following standard.

WARNING

- Ensure beforehand to measure the electric current value of circuit tester to be used for an operation , and confirm if it satisfies the following specified value. When the circuit tester exceeding specified value is used , there may be possibility that malfunction or deterioration of air bag occur. In addition to above, measure the electric current of the circuit tester with minimal resistance (Ω) range .

SPECIFIED VALUE: Not more than about 50 mA (0.05A)

GI00006

PRECAUTION TO PREVENT MISS OPERATION

1. Be sure not to drop the airbag system component parts during removal and installation of it.
2. Ensure not to give the impact or damage when remove the airbag system component parts .
3. Ensure to put the pad Ay and assistant driver's seat air bag unit with development surface upward during the operation though it is temporary operations. And never stack the pad Ay. (There is possibility to lead serious accident if metal surface is facing upward in an emergency)
4. Keep the airbag system component parts in the place where the effect of electricity noise, the high-temperature (not less than atmosphere temperature 85°C) ,and high humidity can be avoided.
5. Do not expose directly the airbag system component parts to high-temperature and the flame.
6. Considering the case an air bag is actuated in an emergency, perform the service operation with posture as not to get your body close to developing portion as much as possible.

GI00007

GENERAL SERVICE INSTRUCTION

1. Follow the indication of the caution plate affixed on the parts to handle the airbag system related parts.
2. Ensure to mate the center when the steering roll connector is installed.
3. As a result of the following operation, if the relation of mutual position of parts is changed, as there may be the case that steering roll connector will be snapped when the steering wheel is operated , so perform the mating of the center for steering roll connector and marking to the separating portion.

GI00008

(1) STEERING CONCERNED

1. Steering wheel, steering column, intermediate shaft steering gear or the like

(2) VEHICLE BODY CONCERNED

1. Instrument panel or the like

(3) BODY ELECTRICAL CONCERNED

1. Multi-use lever switch or the like

(4) POWER TRAIN CONCERNED

1. The case when separate the connection of steering gear at the removal and installation of the engine and transmission and so on.

GI00009

PRECAUTION PRIOR TO BODY AND PAINT OPERATION

1. As an inflator or the like are installed in the steering wheel central part, the upper part of instrument panel, the root of A pillar, the root of B pillar, the front seat back, be sure not to give the strong impact with hammer or the like, and high temperature during repairing.
2. Perform the operation after removing airbag system component parts when the use of an electric welding machine is needed.
3. Perform the operation after removing the airbag system component parts when use of impact or the high temperature is needed.
4. Do not expose the painting surface near the air bag related parts to high temperature (85°C or more) during drying it .
5. Be sure to change with new parts when an air bag related parts have the external scratch , deformation.

GI00010

ITEMS OMITTED IN THIS MANUAL

This manual does not contain the following items given below. Hence, when you carry out the check and maintenance services of the electrical system, refer to Section GI, Chassis volume of the relative manual. Furthermore, before you start to perform the check operations, make sure to carefully read the warnings, cautions and notes of the general operations.

- UNIT
- JACKING POINTS
- TOWING INSTRUCTIONS
- DIAGNOSTICS INSTRUCTIONS
- INSTRUCTIONS ON RADIO INSTALLATION
- HANDLING INSTRUCTIONS ON CATALYTIC CONVERTER-EQUIPPED VEHICLES
- VEHICLE IDENTIFICATION

INSTRUCTIONS ON OPERATIONS FOR ELECTRICAL SYSTEM

HANDLING INSTRUCTIONS ON CONNECTORS & HARNESSSES

1. Never pull out or tread on the connectors during the transport or assembling the wire harnesses.
(Reasons: Prevention of pulled-out terminals or connectors cracked or distorted, etc.)
2. Never allow the connectors or harnesses to be scratched by burrs or edges during the transport or assembling the wire harnesses.
(Reasons: Prevention of outer coating or wire insulators scratched, etc.)

3. Clamping method

- ① As for the resin clamps, ensure that the clamping section is fitted into the body hole.

NOTE

- Lightly pull out the clamp in the arrow-headed direction. Ensure that the clamp will not be pulled out.

(Reasons: Prevention of interference or bedded-in due to a disconnected clamp)

- ② As for the metal sheet welding clamps, the assembling should be made in such a way that the wire may not contact with the welding surface.

(Reasons: Prevention of wire harness scratched)

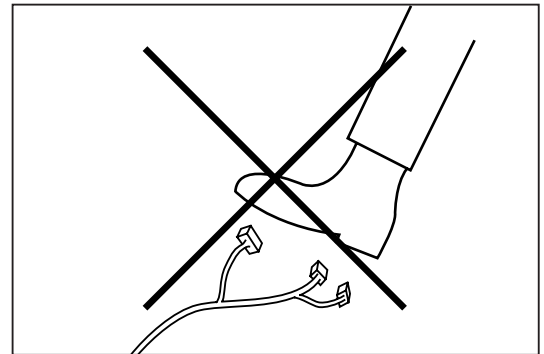
- ③ When the guide for locating the clamp position or the clamp mark is clamped, make sure that the clamp is located within the guide.

(Reasons: Prevention of sagging or interference)

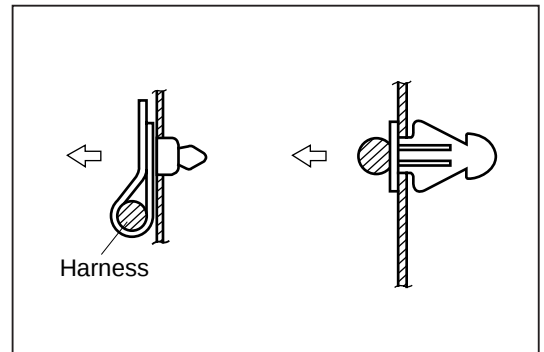
NOTE

- This precaution will not apply to those clamps without a clamp guide.

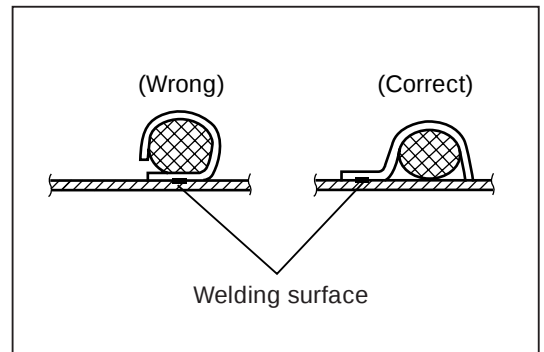
- ④ As for the clamp at the clamp mark, the clamping should be made within ± 10 mm.



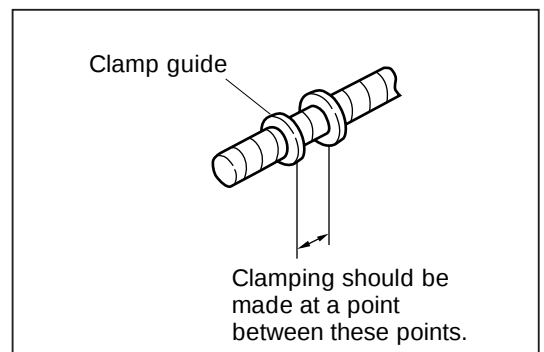
GI00012



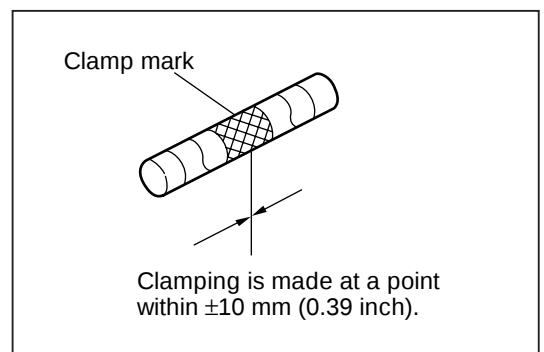
GI00013



GI00014



GI00015



GI00016

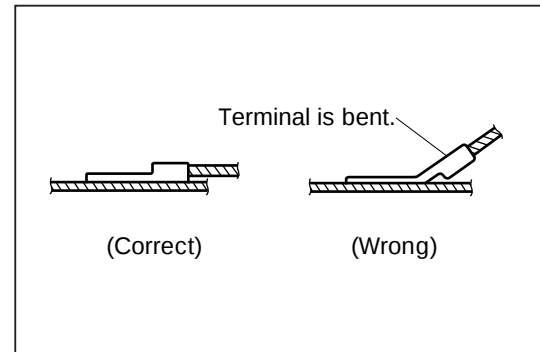
4. Terminals and connectors

- ① Ensure that the connection of each connector is carried out securely.
 - (a) Connectors with a lock : Ensure that the lock is engaged.
 - (b) Connectors without a lock : Ensure that the connector is inserted positively until it stops.

② Tightening by bolts and screws

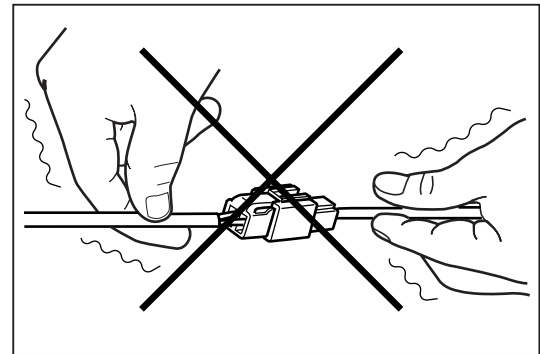
- (a) Ensure that no staked section comes on the assembling surface.
- (b) Upon completion of the tightening operations, ensure that there exists no looseness when the terminal is turned.

GI00017



GI00018

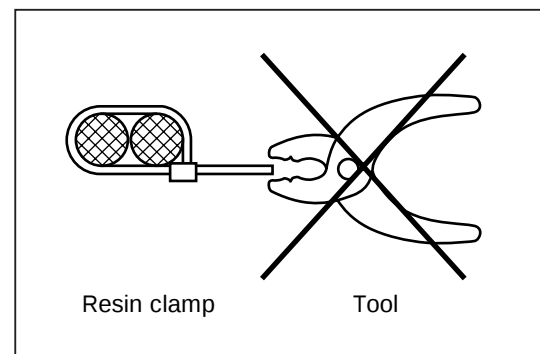
- ③ When you carry out other operations, be very careful not to disconnect any connected connectors by pulling out the harness forcibly.



GI00019

5 Band type resin clamps

- ① When a band type resin clamp is used, never use tools, such as pliers or radio pliers.
- (Reasons: Prevention of breakage of clamps or scratches on them)



GI00020

6. Modification of wire harnesses.

WARNING:

- The wire diameter and capacity of each harness have been determined to assure the normal operation of the electrical system. Hence, do not take power for accessories carelessly through the original wiring harness. Failure to observe this caution may cause system malfunction or fire.

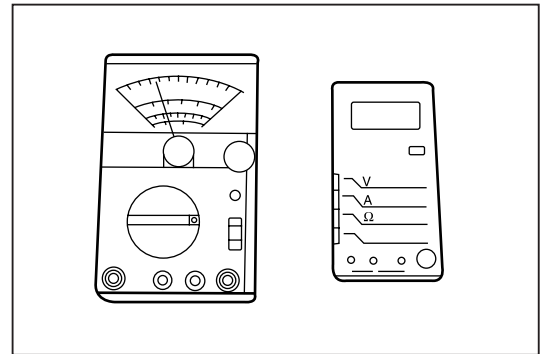
GI00021

INSPECTION

Tester (Volt/ohmmeter)

For the inspection, use a tester having an internal resistance of more than 10 kilo-ohms/V.

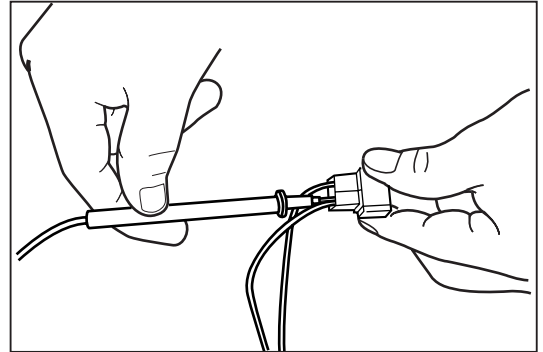
Use of a tester with a low internal resistance may cause wrong measurement or secondary troubles.



GI00022

Conventional type connector

When resistance measurement and/or voltage measurement is conducted at the connector section, insert the measuring probe from the back of the connector, being very careful not to damage the harness-to-terminal connections.



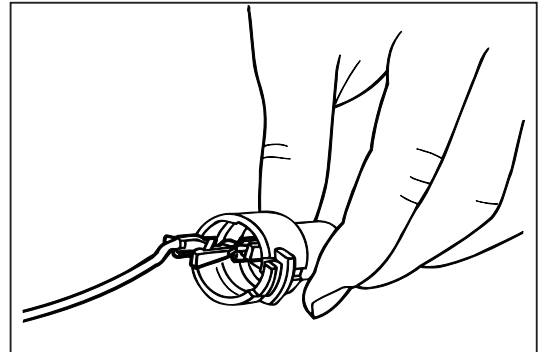
GI00023

Water-proof type connector

When resistance measurement and/or voltage measurement is conducted at the connector section, bring the measuring probe into contact with the terminal at the connection side of the connector.

Be very careful not to apply excessive force to the terminal at the connector side. Failure to observe this caution may deform the terminal, causing poor continuity.

As an alternative method, insert a male or female terminal into the connector terminal or connect an adequate attachment.

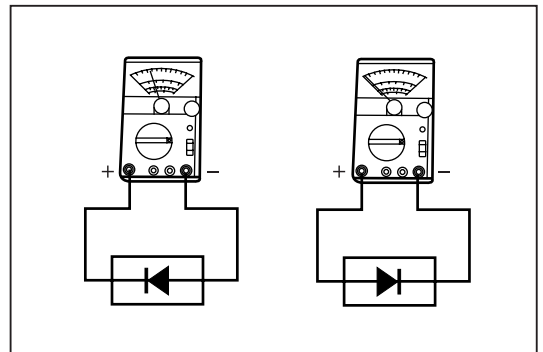


GI00024

INSPECTION OF CIRCUIT WITH TESTER

If a diode is built in the circuit, perform continuity test by changing the polarities of the measuring terminals.

In case of a general type tester, ensure that continuity exists when the negative (–) lead of the tester is connected to the positive (+) side of the diode; the positive (+) lead of the tester to the negative (–) side of the diode. Also ensure that no continuity exists when the polarities are changed.



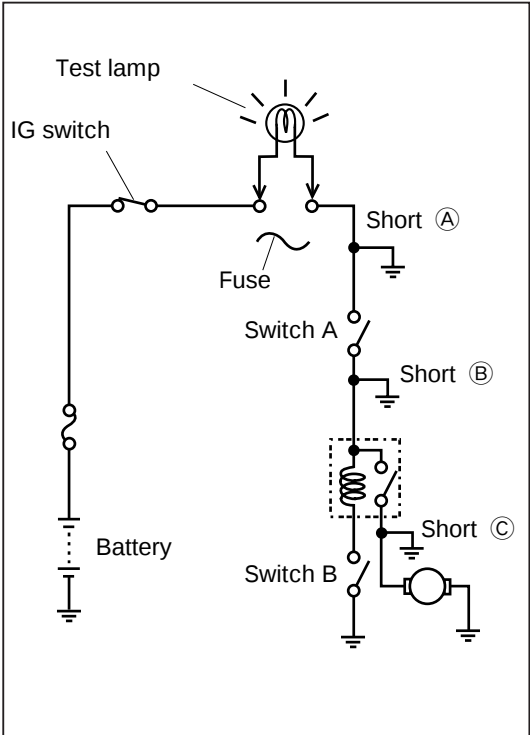
GI00025

Since some testers have different polarities, be sure to read the instruction manual of a tester to be used for the check before using it.

The inspection procedure for light emitting diodes (LED) is the same as normal diodes. However, there may be cases where the LED emits no light, unless a tester with LED check mode is used. If an adequate tester is not available, apply the battery voltage to the LED and ensure that the LED emits light.

INSPECTION OF SHORT CIRCUIT

- 1. Remove a melt fuse or fusible link.
- 2. Disconnect all connectors for loads being applied to the melt fuse.
- 3. Connect a test lamp at the position where the melt fuse or fusible link was installed.
- 4. Search for the short circuit by providing the minimum conditions which make the test lamp glow.
- 5. Perform repairs or wiring harness replacement, as required.



GI00027

Example

Short section	Connecting conditions
(A)	Ignition switch is turned ON.
(B)	Ignition switch and switch A are turned ON.
(C)	Ignition switch, switch A and switch B are turned ON with relay energized.

OPERATION OF LOCK TYPE CONNECTOR

Disconnection

The lock type of the connector comes in a push release type, a pull release type, a spring lock type, an one-way lock type and so on.

After confirming the shape of the lock, unlock the lock. Disconnect the connector while holding the connector by hand.

NOTE:

- Never pull the harness during the disconnection.
- Be sure to pull out the connector straight so as not to damage the terminal.

Connection

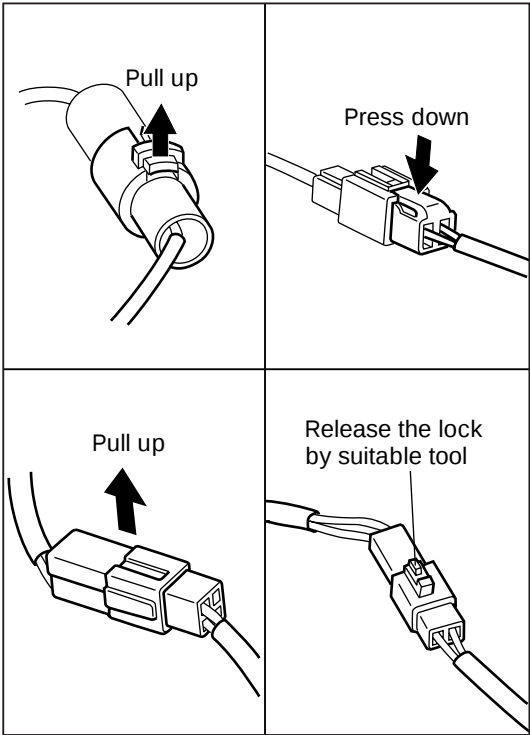
Perform the connection until the lock is completely engaged. After the connection has been made, ensure that the lock is engaged positively.

NOTE:

- Be sure to connect the connector straight so as not to damage the terminal.

NOTE:

- Disconnection and connection of each connector should be kept at a minimum level. If unnecessary disconnection or connection is repeated, it may cause unexpected troubles such as poor continuity and chattering.



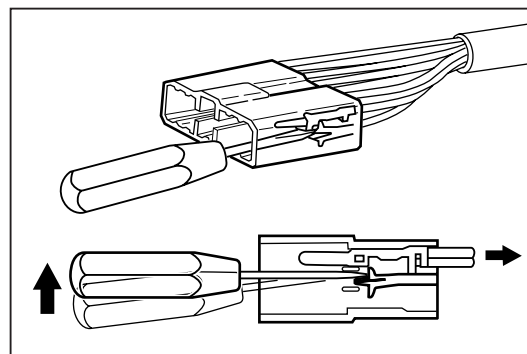
GI00028

TERMINAL REMOVAL & INSTALLATION

Removal of terminal

<Housing lance type>

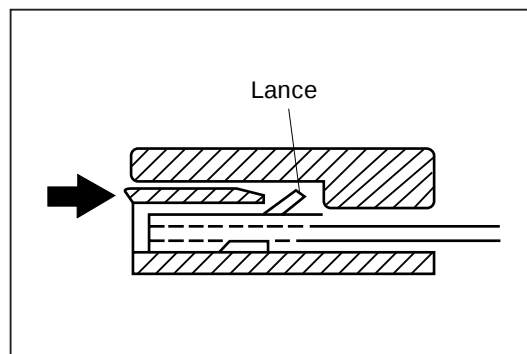
Insert a miniature screwdriver through the opening section of the connector into between the locking lug and the terminal. While prying up the locking lug with the screwdriver, pull the terminal backward.



GI00030

<Metal lance type>

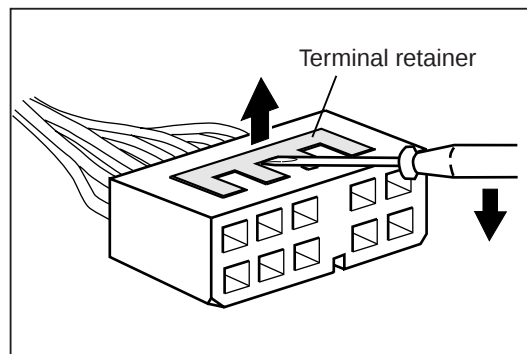
While pushing the lance with the screwdriver, pull the terminal backward.



GI00031

<Terminal retainer type>

Release the locking of the terminal retainer by means of a miniature screwdriver and pull out the terminal backward.

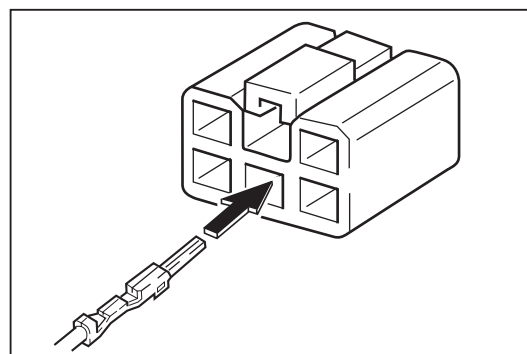


GI00032

Installation of terminal

<Housing lance type>

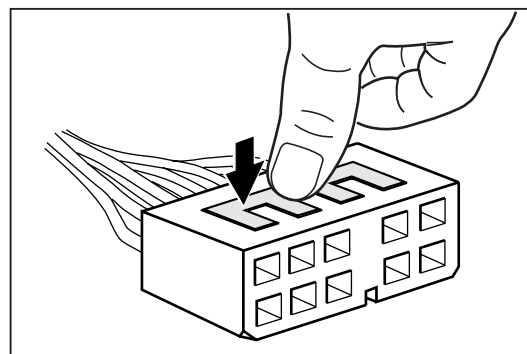
Push the terminal into the protruding section of the connector, until the lock is engaged completely. Lightly pull the harness to assure that the locking has been made completely.



GI00033

<Metal lance type>

Insert the terminal into the connector, until lance is locked completely. Lightly pull the harness to assure that the locking has been made completely.



GI00034

HOW TO USE THIS MANUAL

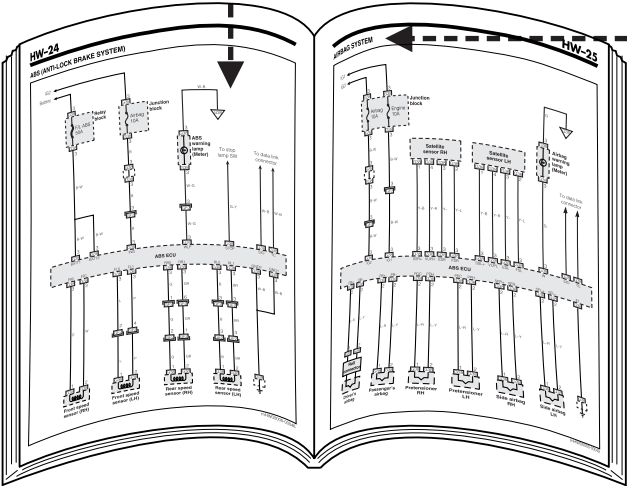
HOW TO READ EACH ITEM

This section describes how to read the circuit diagrams, connector diagrams and locations of connectors of each system.

*It should be noted that the contents posted here differ from the main text of this manual.

Circuit diagram according to function

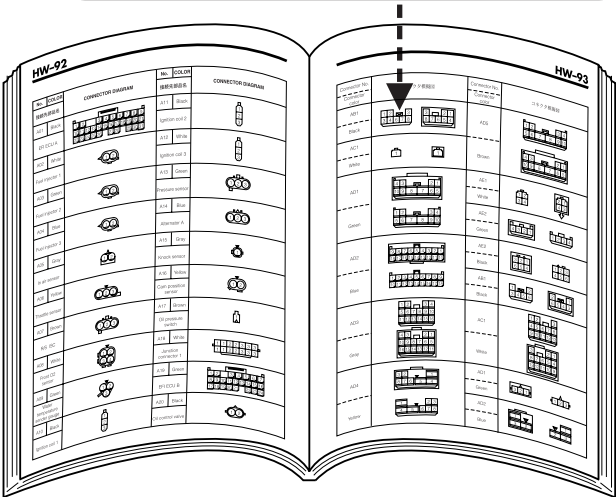
The circuit diagram comes in two kinds: the power supply circuit diagram and the circuit diagram according to function. The power supply circuit diagram describes the wiring diagram from the battery to fuses, while the circuit diagram according to function describes the wiring diagram from fuses to ground codes. For details, refer to the section under "HOW TO READ CIRCUIT DIAGRAM ACCORDING TO EACH FUNCTION." (page GI-13)



Each system name is posted.

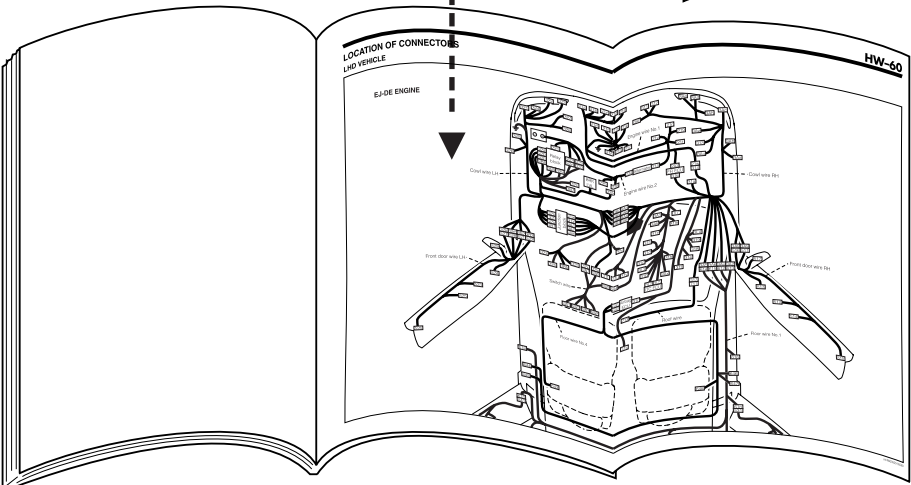
Connector List

The connector diagrams simulated for all connector numbers used in the wiring diagram are posted collectively here. They are divided into two groups: joint connectors and other connectors. These connector diagrams are arranged according to the ascending order. For the method of how to read the connector diagrams, refer to the "HOW TO READ CONNECTOR DIAGRAMS." (page GI-16)



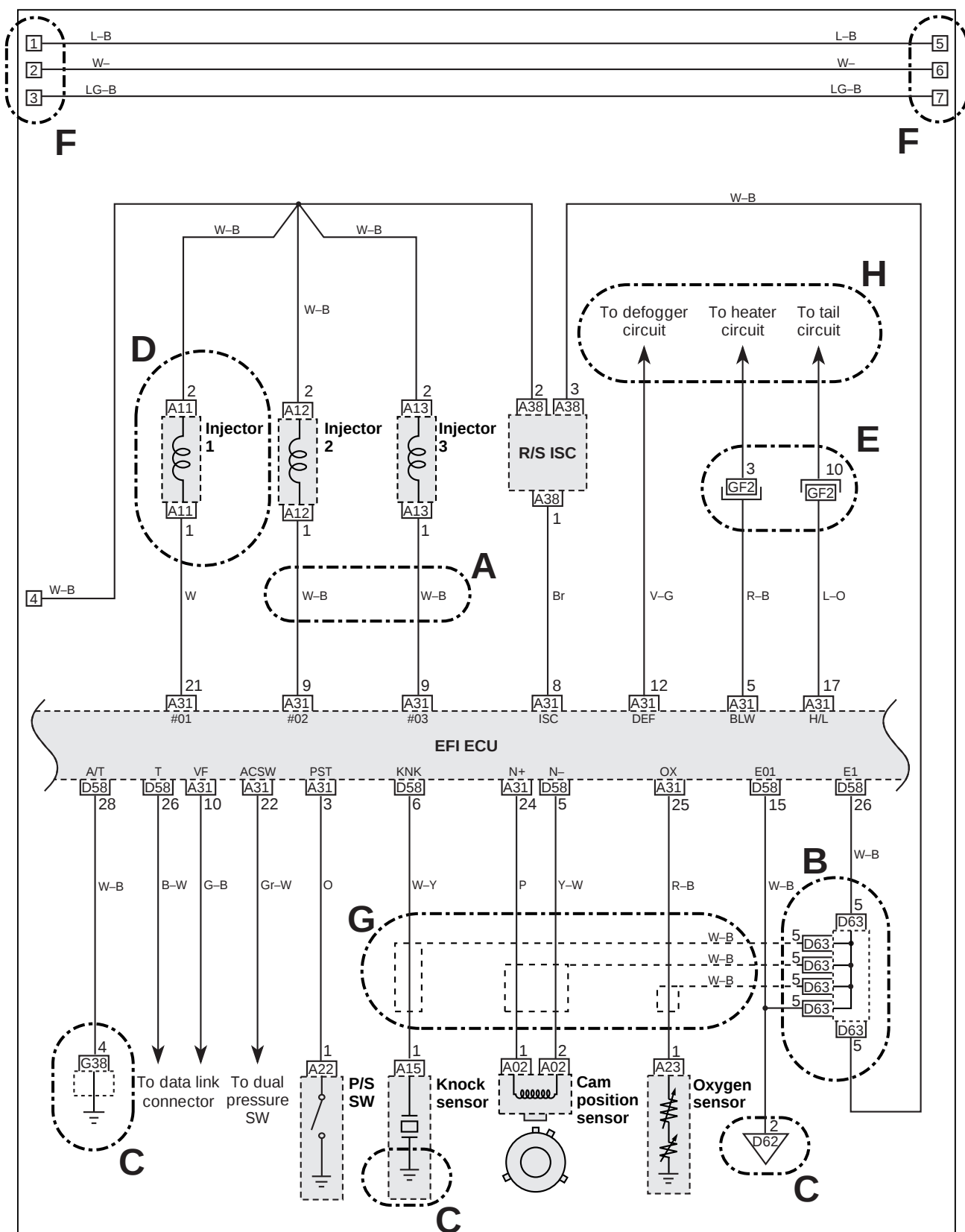
Fitting diagram

This diagram describes the positions of all connectors used in each section of the vehicle, the routing of wire harnesses and their earth points. For the method of how to read the fitting diagram, refer to the "HOW TO READ LOCATION OF CONNECTOR." (page GI-19)



HOW TO READ CIRCUIT DIAGRAM ACCORDING TO EACH FUNCTION

HW-23



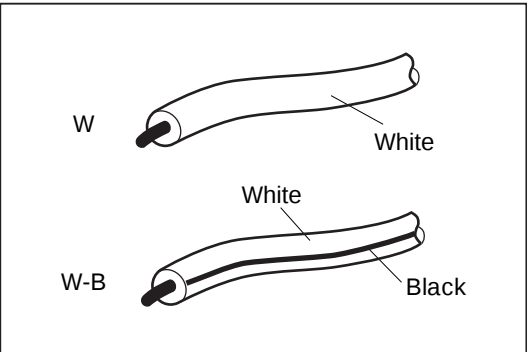
A. WIRE COLOR CODE

For identification purpose, each wire has its own color. Each color bears a code as described in the right table. These codes are used in the wiring diagram and will be helpful during trouble shooting.

Code	Color	Code	Color
B	Black	V	Violet
G	Green	W	White
L	Blue	Y	Yellow
O	Orange	Br	Brown
P	Pink	Gr	Gray
R	Red	Lg	Light green

GI00037

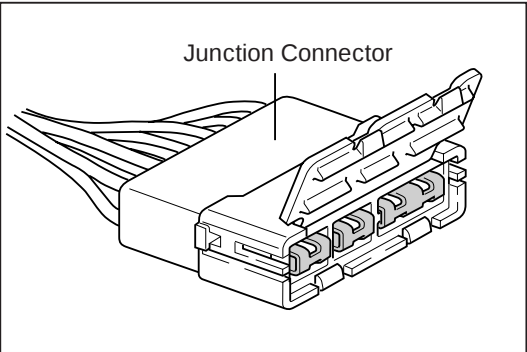
The wire color comes in two kinds: single color and composite color. In the case of single color, the whole outer coat of the harness is of a single color. In the case of composite color, a fine line of the second color is drawn on the harness basic color. In this case, the code is composed of the basic color code which comes first and the second color code which comes after a hyphen.



GI00038

B. JUNCTION CONNECTOR

Detailed explanations about the junction connectors are posted in the "HOW TO READ CONNECTOR DIAGRAMS."



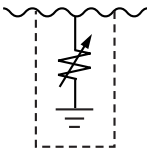
GI00039

C. GROUND

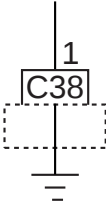
Three kinds of ground codes are used in the wiring diagrams.



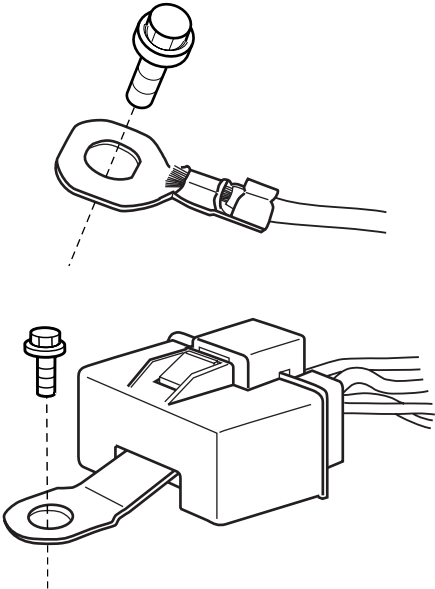
The harness is bolted directly to the vehicle body.



The part, in which connection is made to the earth inside the part, is bolted directly to the vehicle body.



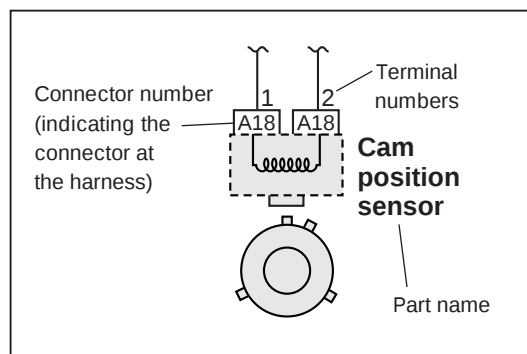
The junction connector is bolted to the vehicle body.



GI00040

D. PARTS

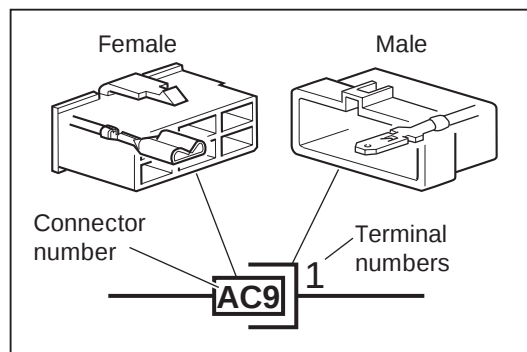
Each part is expressed by dotted lines and shaded.



GI00041

E. CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Each connector connects a harness to another harness. The connector consists of a male section and a female section. These two sections comprises a connector, for which a connector number is assigned.

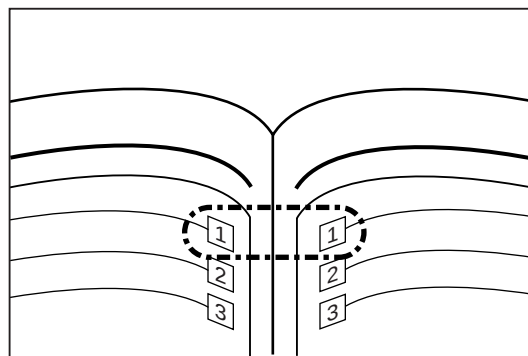


GI00042

F. NUMBER TO WHICH HARNESS IS LED

On some wiring diagrams, their wirings are described over plural pages. In this case, the point to which the wire harness is led in the next page (or in the preceding page) is indicated by a number.

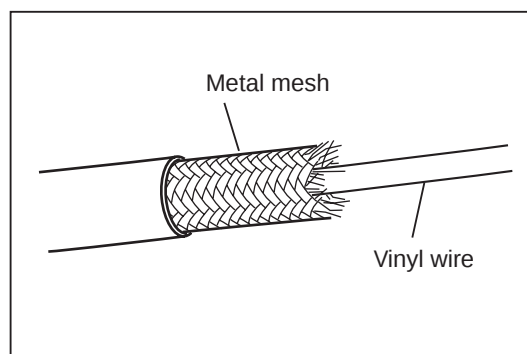
The harnesses bearing the same number are connected to each other.



GI00043

G. SHIELDING WIRE

In this wire, the vinyl wire is covered by a metal mesh. This wire prevents radio wave that will cause interference. The shielding wire must be grounded.



GI00044

H. POINT TO WHICH HARNESS IS LED

This means that the harness is connected to other circuit. Refer to the circuit diagram according to system, that bears the name to which the wire harness is connected.

GI00045

HOW TO READ CONNECTOR DIAGRAMS

HW-52

CONNECTOR LIST

No.	Color	CONNECTOR DIAGRAM	No.	Color	CONNECTOR DIAGRAM
CONNECTION			CONNECTION		
A	A01 Black		A11 Black	E	
	EFI ECU A		C		
B	A02 White		A12 White	D	
	Fuel injector 1		Junction block C		
C	A03 Green		A13 Green		
	Fuel injector 2		Pressure sensor		
	A04 Blue		A14 Blue		
	Fuel injector 3		Alternator A		
	A05 Gray		A15 Gray		
	In air sensor		Knock sensor		

HW-58

Connector No.	Connector color	CONNECTOR DIAGRAM	Connector No.	Connector color	CONNECTOR DIAGRAM
AB1	Black		AD5		
AC1	White		Brown		

A. CONNECTOR NUMBER

<General connector>

The general connectors mean those other than the joint connectors.

The first digit of each connector represents a code that indicates this connector belongs to which harness. On the other hand, the lowest two digits mean a serial number that starts from 01.

For the table showing wire harness codes that are used in the circuit diagrams in this manual, refer to page WH-1.

<Connector joining wire harness and wire harness>

This connector connects a harness to another harness. The first two digits of the connector number represent a code that indicates this connector belongs to which harness. On the other hand, the lowest digit means a serial number that starts from 1.

For the table showing wire harness codes that are used in the circuit diagrams in this manual, refer to page HW-1.

B. CONNECTOR COLOR

The connector colors are posted.

C. PART NAME TO WHICH HARNESS IS CONNECTED

This indicates that this connector is connected to which part. However, in the case of a junction connector, there is no part to which the harness is connected. Therefore, no description is given.

This letter shows that this connector belongs to which wire harness. In this case, this connector belongs to Wire A.

Serial number

A03

GI00047

This is a connector that connects a wire to a wire. In this case, this is a connector that connects Wire A to Wire B.

Serial number

AB1

GI00048

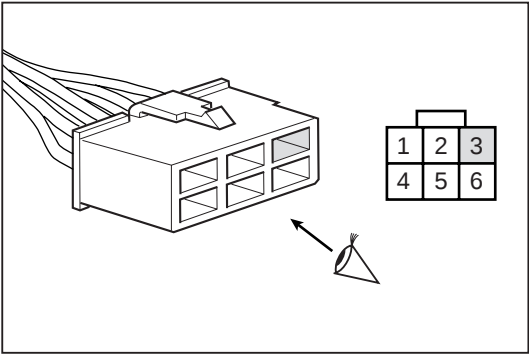
GI00050

GI00051

D. TERMINAL NAME

<Connector led to parts>

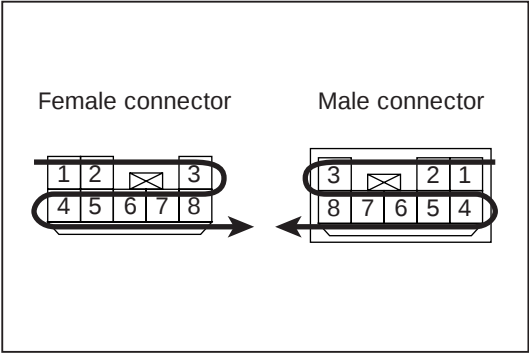
Basically, the female connectors only exist. Numbers are assigned in series, starting from the left/upper to the right/lower. These number are given even to blank terminals. The connector diagram posted here is for the connector at the harness side. Their connector positions are such ones that are seen when the connector is viewed from the front side.



GI00052

<CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS>

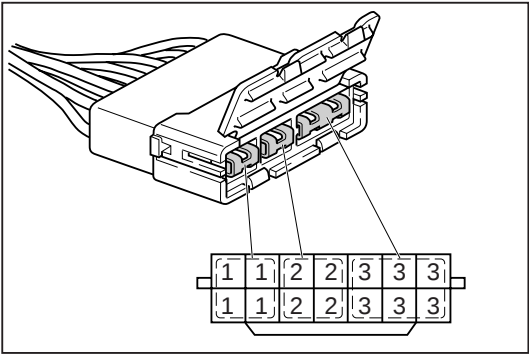
A set, that is comprising of a male terminal and a female terminal, is posted in the figure. In the case of the female connector, numbers are assigned in series, starting from the left/upper to the right/lower. On the other hand, in the case of the male connector, numbers are assigned in series, starting from the right/upper to the left/lower. These number are given even to blank terminals.



GI00053

<JUNCTION CONNECTOR>

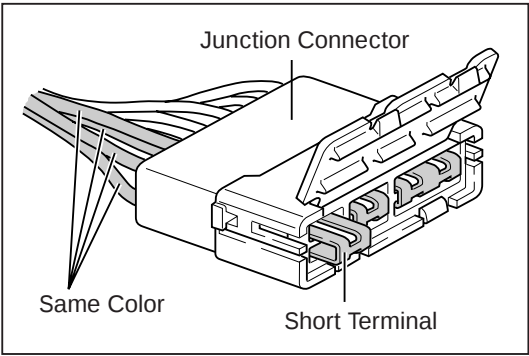
The same terminal number is given to the terminals that are shorted in the same short terminal.



GI00054

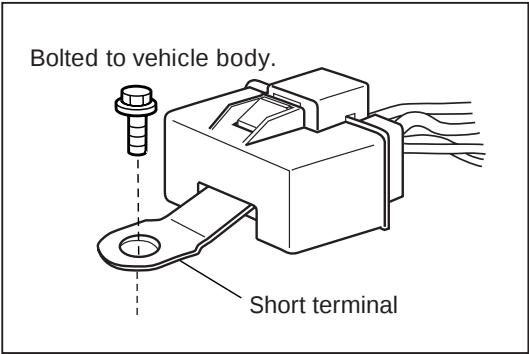
E. JUNCTION CONNECTOR

The junction connector is a connector in which plural harnesses are shorted to each other in the connector.



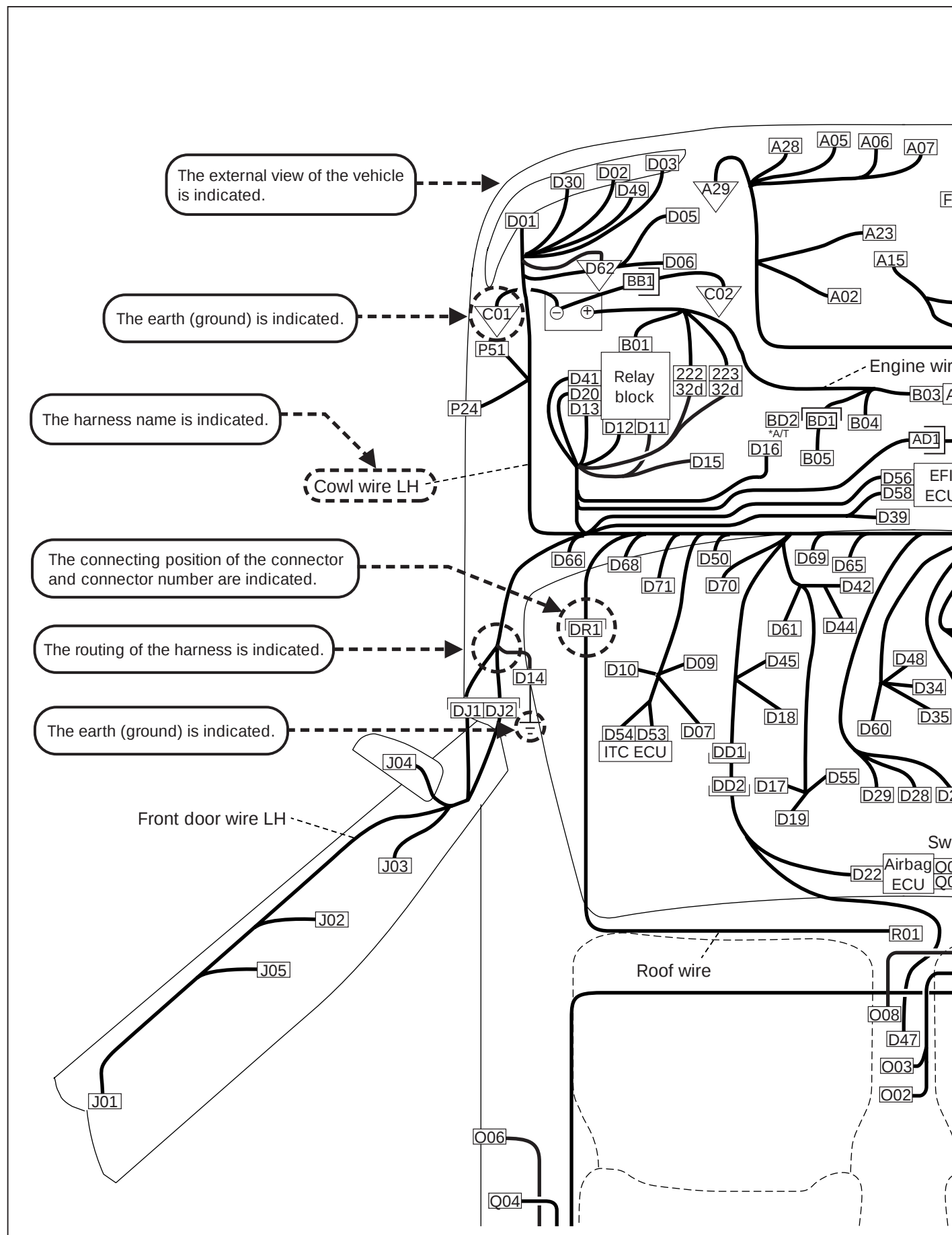
GI00055

The junction connector comes in three different kinds. One is a connector in which shorting is made with a short terminal; another is a connector in which shorting is made with a short pin; and the third is a connector in which the short terminal is bolted to the vehicle body.



GI00056

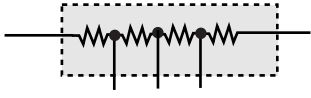
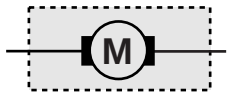
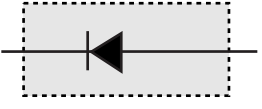
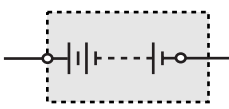
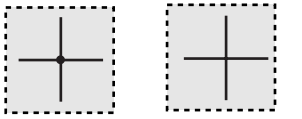
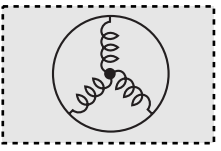
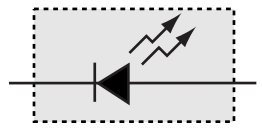
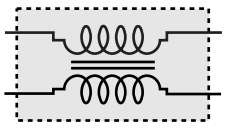
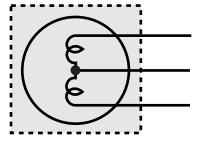
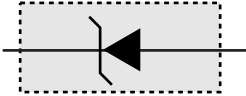
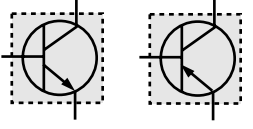
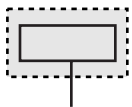
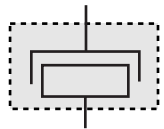
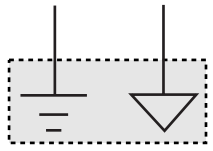
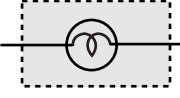
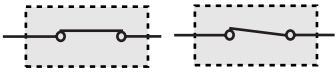
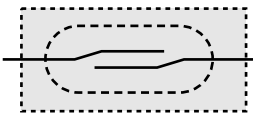
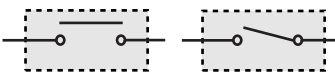
HOW TO READ LOCATION OF CONNECTOR



ABBREVIATION CODES

ABBREVIATION CODE	ORIGINAL WORD
A/B , AB	Airbag system
ABS	Anti-lock brake system
ACC	Accessory
A/C , AC	Air conditioner
ADJ	Adjustment
ANT	Antenna
A/T , AT	Automatic transaxle , Automatic transmission
BUZ	Buzzer
CDS	Condensor
DLC	Data link connector
D/L	Door lock
ECU	Electronic control unit
EFI	Electronic fuel injection
EVAP.	Evaporative emission
E/G	Engine
FR	Front
F/L	Fusible link
G	Gravity
GND	Ground
H/L	Head lamp
I/G , IG	Ignition
ILL. , ILLUM.	Illumination
ISC	Idle speed control
ITC	Integrated timer controller
J/B	Junction block
J/C	Junction connector
LED	Light emitting diode
LH	Left-hand
LHD	Left-hand drive
MGC	Magnet clutch
M/T , MT	Manual transaxle , Manual transmisson
OCV	Oil contorol valve
P/S	Power steering
PRESS.	Pressure
RAD	Radiator
RH	Right-hand
RHD	Right-hand drive
RR	Rear
R/B	Relay block
SW	Switch
SRS	Supplemental restrain system
TEMP.	Temperature
THERMO.	Thermostat
VSV	Vacuum switching valve
w/	With
w/o	Without

GLOSSARY OF TERMS AND SYMBOLS

Fuse 	Solenoid 	Tapped resistor 	Motor 
Diode 	Battery 	Wires Joint Not connected 	Stator coil 
LED 	Transformer 	Double filament bulb 	
Zener Diode 	Transistor NPN type PNP type 	Connector 	
Fusible link 	Variable resistor 	Wire to wire connector 	
Ground 	Resistor 	Single filament bulb 	
Relay Normally closed Normally open 	Switch Normally closed 	Condenser 	
Reed switch 	Double throw switch 	Switch Normally open 	

MEMO

Dotted lines for writing content.