

GROUP 00E

**GENERAL
<ELECTRICAL>**

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HOW TO READ WIRING DIAGRAMS

COMPOSITION AND CONTENTS OF WIRING DIAGRAMS

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In each section, all specifications are listed, including optional specifications. Accordingly, some specifications may not be applicable for individual vehicles.

Section	Basic contents
Component locations	Locations are shown for each point of relays, ECUs, sensors, solenoid valves, inspection connectors, fusible links, fuses, etc. In the part's lists, parts are listed in alphabetical order.
Configuration diagrams	Connector locations and harness wiring configurations on actual vehicles are illustrated.
Circuit diagrams	<p>Circuits from power source to earth are shown completely, classified according to system. There is a main division into power source circuits and circuits classified by system.</p> <ul style="list-style-type: none"> • Junction block The entire circuit for the junction block is described, because only the part of the junction block needed is normally shown in each circuit diagram. • Joint connectors The internal circuits for all joint connectors are described, because only the part needed is shown in each circuit diagram. • Power source circuits Circuits from the battery to fusible link, fuse, ignition switch, etc are shown. • Circuits classified by system For each system, the circuits are shown from fuse to earth, excluding the power source sections.

HOW TO READ CONFIGURATION DIAGRAMS

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The wiring harness diagrams clearly show the connector locations and harness routings at each site on actual vehicles.

Denotes connector No.
The same connector No. is used throughout the circuit diagrams to facilitate connector location search.
The first alphabetical symbol indicates the location site of the connector and a number that follows is the unique number.
Numbers are usually assigned to part in clockwise order on the diagram.

Example: A-19

- └── Number specific to connector (serial number)
- └── Connector location site symbol

- A: Engine compartment
- B: Engine and transmission
- C: Dash panel
- D: Floor and roof
- E: Door
- F: Trunk (luggage compartment) <SEDAN> or tailgate <WAGON>

Denotes earth point.
Same earth number is used throughout circuit diagrams to facilitate search of earth point.
Refer to GROUP 70 COMPONENT LOCATIONS - EARTH MOUNTING LOCATIONS for details of earth points.

Denotes harness name.

Denotes a section covered by a corrugated tube.

The mark ★ shows the standard mounting position of wiring harness.

Denotes the colour of the tube
(If not specified, it is black).
R: Red
Y: Yellow

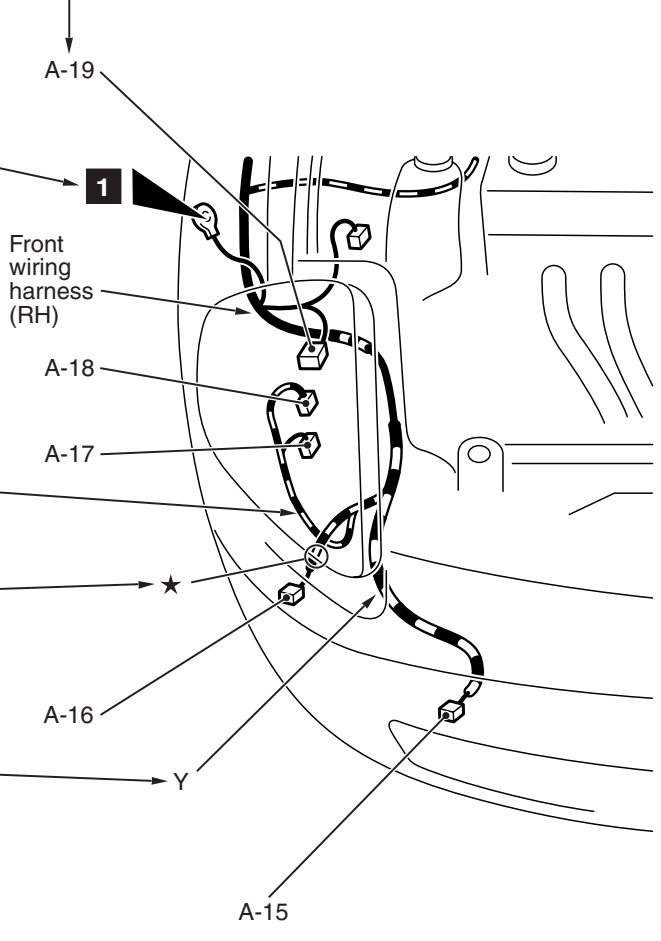
The number of connector pins and the connector colour (except milk white)* are shown for ease of retrieval.

Example: (2-B)

- └── Connector colour (milk white if no colour is indicated)
- └── Number of connector pins

*: Typical connector colours

B: Black	BR: Brown
Y: Yellow	V: Violet
L: Blue	O: Orange
G: Green	GR: Grey
R: Red	None: Milk white



- A-15 (2) Fog lamp (RH)
- A-16 (2-GR) Horn (LO)
- A-17 (2-B) Headlamp (RH)
- A-18 (2-B) Windshield washer motor
- A-19 (2-GR) Dual pressure switch

Indicates the device to which the connector is connected.

HOW TO READ CIRCUIT DIAGRAMS

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The circuit of each system from the fuse (or fusible link) to earth is shown. The power source is shown at the top and the earth at the bottom to facilitate understanding of how the current flows. The circuit diagrams show the state when switches are not operated.

Indicates power source.

Indicates that terminal is connected via a plate in the relay box.

Each circuit diagram consists of block(s).

Indicates harness junction point numbers for another system. The number corresponds to the junction point number indicated on another circuit diagram.

Indicates the circuit name to be connected. The arrow indicates the current flow direction.

Indicates the power supply in the control unit. If no voltage is displayed, this indicates battery positive voltage.

An "X" at the end of a connector number indicates that the connector is connected to a centralized junction that is shown in the section "Centralized Junction."

Indicates that the diagram continues at ▽ which belongs to the ② block in the same circuit.

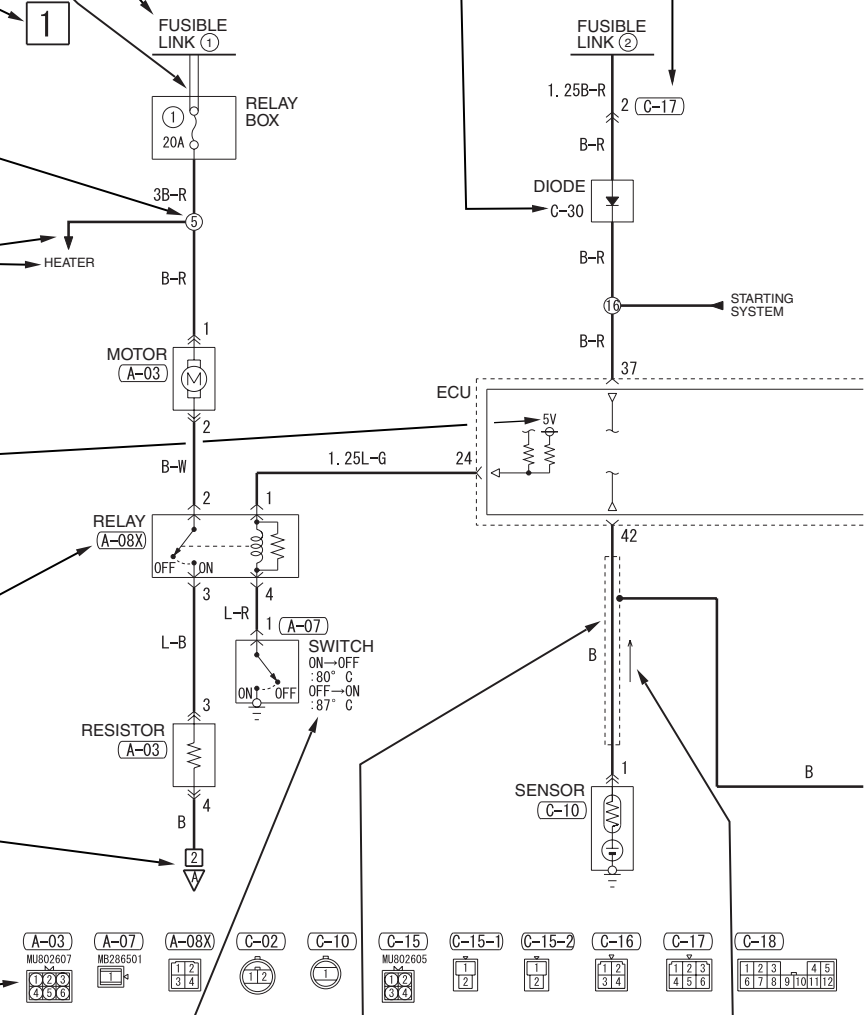
Indicates the connector symbol. Connectors in the circuit diagram are indicated in numerical order.

Indicates connector number. The same numbers are used in the wiring harness diagram. Connector and connector numbers are shown at the lower part of the page. Connector numbers not enclosed by frame indicate the device incorporated into wiring harness.

Indicates the operating conditions of the engine coolant switch, etc.

Indicates shield wire.

One-directional arrow indicates that current flows upwards.



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Indicates input/output to/from control unit (current flow direction).

Indicates a wiring connector which is inside the equipment and which is not shown in the wiring harness configuration diagram.

Example C-15-2 Indicates a connector which is inside the equipment, numbered in order starting from 1.

Indicates the connector number shown in the wiring harness configuration diagram.

Indicates that the diagram comes from ▽ which belongs to the 1 block in the same circuit.

Indicates that these connectors are the same intermediate connectors.

Indicates terminal number.

In case two or more connectors are connected to the same device, markings indicating the same connector are connector by a broken line.

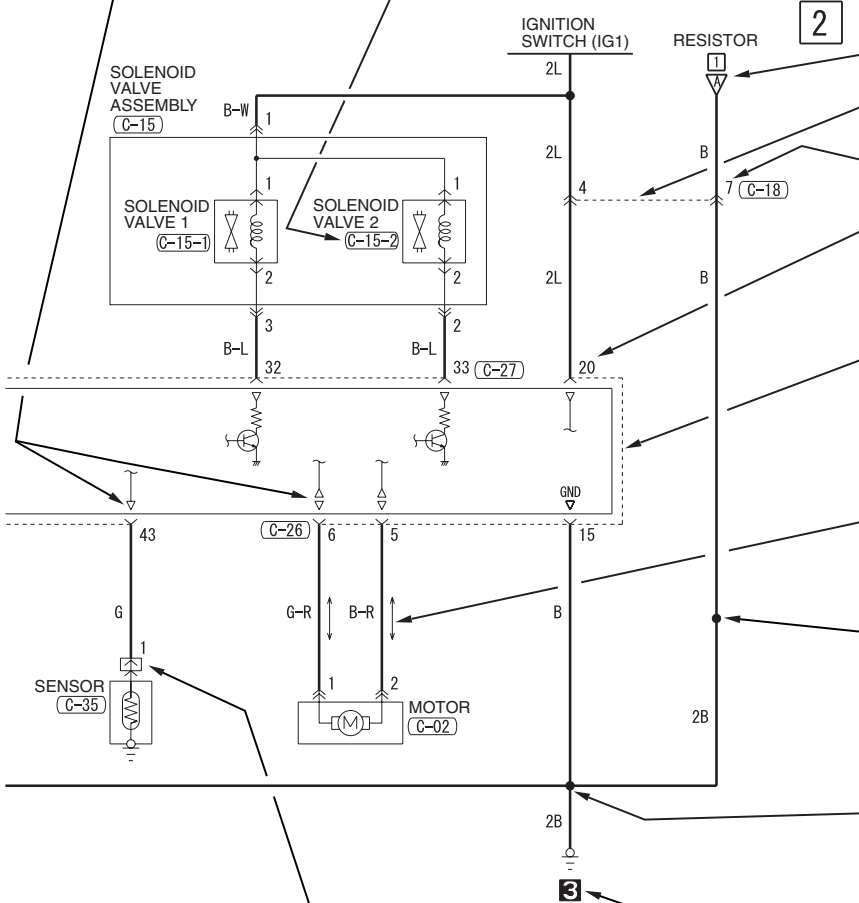
Bi-directional arrow indicates that current flows in both directions due to control by an ECU.

Indicates harness junction where wire diameter or colour changes.

Indicates intersections at which the lead wires are not connected.

Indicates intersections at which the lead wires are connected.

Indicates representative vehicle body earth point. (Same number as that of earth point in EARTHING LOCATION).



C-26 (MU801823)										
1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22

C-27 (MU801828)										
31	32	33	34	35	36	37	38			
39	40	41	42	43	44	45	46			

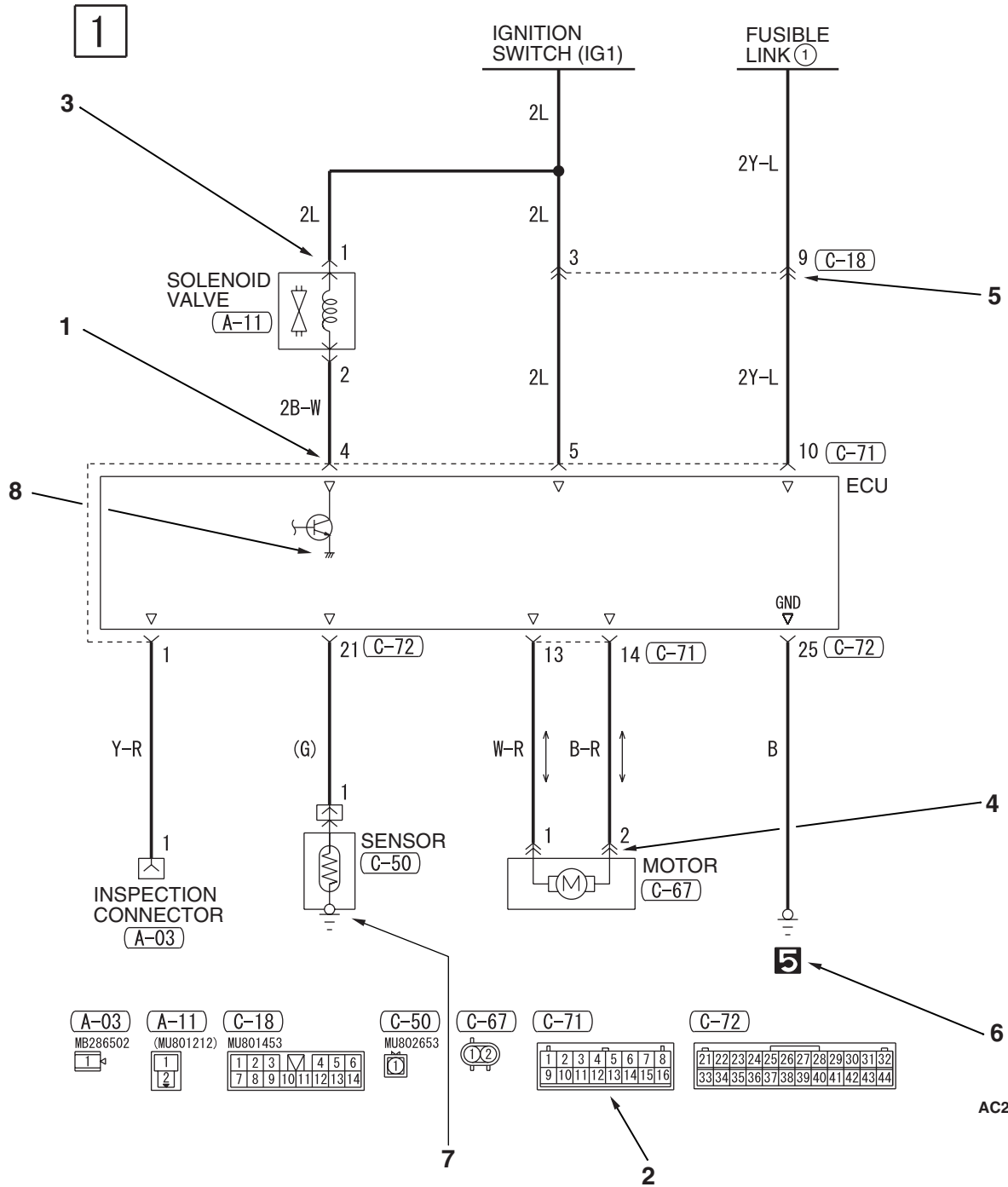
C-35 (MB286501)										
[Sensor symbol]										

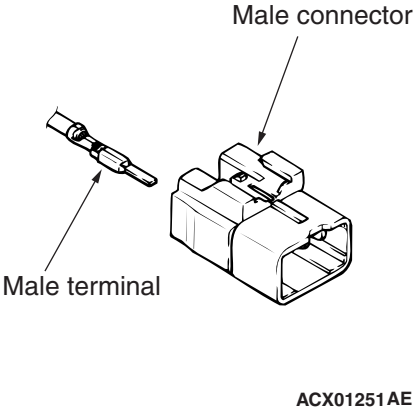

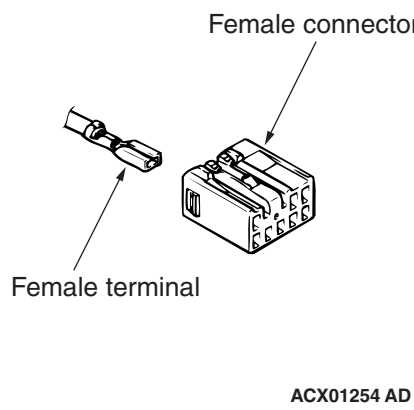
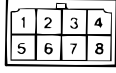

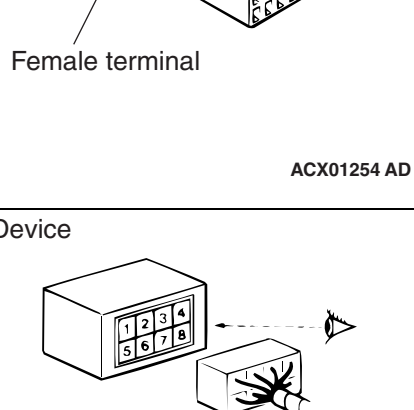
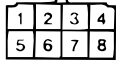
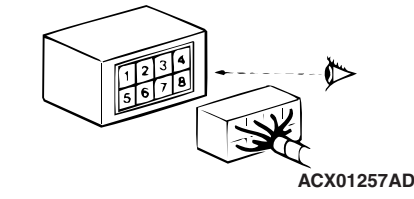
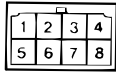
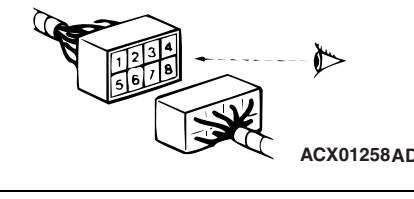

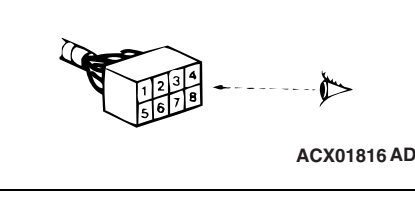
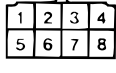
Indicates that the terminal is a spare one if the device (sensor in this case) is not provided.

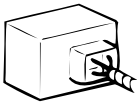
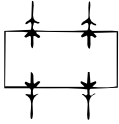
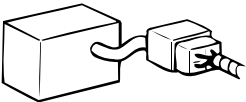
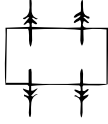
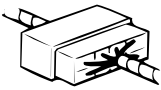

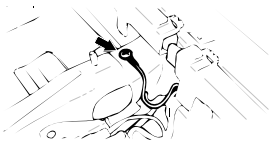





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MARKINGS FOR CONNECTOR AND
EARTHING

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Item	No.	Connector/Earthing	Symbol	Contents	
Connector and terminal marking	1		<p>Male terminal</p>  <p>ACX01252 AD</p>	The male and female terminals are indicated as shown. The connector with male terminal(s) is called as male connector and indicated by two connector contour lines, while the connector with female terminal(s) is called as female connector and indicated by single connector contour line.	
			<p>Male connector</p>  <p>ACX01253 AI</p>		<p>Female terminal</p>  <p>ACX01255 AD</p>
			<p>Female connector</p>  <p>ACX01256 AH</p>		
		<p>Device</p> 	 <p>ACX01253</p>		
<p>Intermediate connector</p> 					
<p>Spare connector, check connector</p> 	 <p>ACX01256</p>				

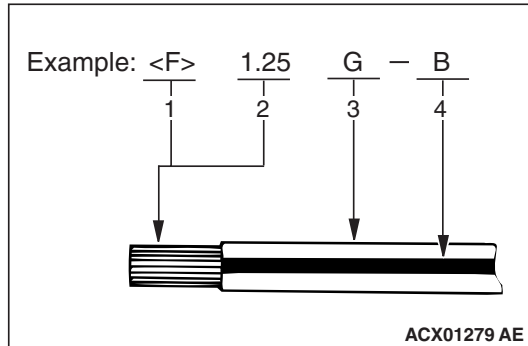
Item	No.	Connector/Earthing	Symbol	Contents
Connector connection marking	3	Direct connection type  ACX01260 AD	 ACX01261	Connection between a device and the harness is either by direct insertion in the device (direct connection type) or by connection with a harness connector furnished on the device side (harness connection type). The two types are indicated as illustrated.
	4	Harness connection type  ACX01262 AD	 ACX01263	
	5	Intermediate connector  ACX01264 AD	 ACX01265	
Earth marking	6	Body earth  AC208448 AB	 ACX01274	Earthing is either by body earth, device earth or control unit interior earth. These are indicated as illustrated.
	7	Device earth  AC208449 AB	 ACX01276	
	8	Earth in control unit  AC208450 AB	 ACX01278	

WIRE COLOUR CODE

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Wire colours are identified by the following colour codes.

Code	Wire colour	Code	Wire colour	Code	Wire colour	Code	Wire colour
B	Black	L	Blue	PU	Purple	V	Violet
BR	Brown	LG	Light green	R	Red	W	White
G	Green	O	Orange	SB	Sky blue	Y	Yellow
GR	Grey	P	Pink	SI	Silver	–	–



If a cable has two colours, the first of the two colour code characters indicates the basic colour (colour of the cable coating) and the second indicates the marking colour.

No.	Meaning
1	<F>: Flexible wire
	<T>: Twisted wire
2	Wire size (mm ²)*
3	Basic colour (colour of the cable coating)
4	Marking colour

NOTE:

*: No code indicates 0.5 mm². Cable colour code in parentheses indicates 0.3 mm².

ABBREVIATION SYMBOLS

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The abbreviation symbols used in wiring diagrams are defined below.

1. For system name

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
A/C	Air conditioner	INVECS-II	Intelligent and innovative vehicles electronic control system
A/T	Automatic transmission	M/T	Manual transmission
ABS	Anti-skid braking system	MPI	Multi-point injection
DOHC	Double overhead camshaft engine	SRS	Supplemental restraint system

2. For combination meter

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
ABS	Anti-skid braking system warning lamp	ODO	Odometer
BEAM	High beam indicator lamp	OIL	Oil pressure warning lamp
		P.R.N.D	Selector lever position indicator lamp
BRAKE	Brake warning lamp	REAR FOG	Rear fog lamp indicator lamp
CHECK ENGINE	Check engine warning lamp	SPEED	Speedometer

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
CHG	Charging warning lamp	SRS	Supplemental restraint system warning lamp
CLEARANCE	Position lamp indicator lamp	T/GA	Engine coolant temperature gauge
DOOR	Door-ajar warning lamp	TACHO	Tachometer
F/GA	Fuel gauge	TRIP	Tripmeter
FRONT FOG	Front fog lamp indicator lamp	TURN (LH)	Turn signal indicator lamp, hazard indicator lamp
FUEL	Low fuel warning lamp	TURN (RH)	
LCD	Liquid crystal display		

3. For switches and relays

Name of switches and relays	Abbreviation symbol	Operation
Blower switch	LO	Blower operates at low speed
	ML	Blower operates at medium low speed
	MH	Blower operates at medium high speed
	HI	Blower operates at high speed
Dimmer passing switch	LO	Low beams ON
	HI	High beams ON
	PASS	High beams ON
Door lock actuator	LOCK	Door lock
	UNLOCK	Door unlock
Front room lamp, rear room lamp	DOOR	Room lamp or personal lamp ON when a door is open
Headlamp levelling switch	1	Lower the low-beam in one step
	2	Lower the low-beam in two steps
	3	Lower the low-beam in three steps
	4	Lower the low-beam in four steps
Heated seat switch	LO	Normal heating
	HI	Rapid heating
Ignition switch	LOCK	When turned to the LOCK position, no circuits will start
	ACC	When turned to the ACC (ACCESSORY) or ON position, the power circuit will start
	IG2	When at the ST (START) position, the power circuit will not start functioning
	IG1	Even when at the ST (START) position, the power circuit will start
	ST	Only when turned to the ST (START) position, the power circuit will start
Inhibitor switch	P	Selector lever is at the P (PARKING) position
	R	Shift lever is at the R (REVERSE) position
	N	Shift lever is at the N (NEUTRAL) position
	D	Shift lever is at the D (DRIVE) position

Name of switches and relays	Abbreviation symbol	Operation
Lighting switch	TAIL	Position, tail, licence plate and illumination lamps ON
	HEAD	Headlamps ON
Others	ON	Switched ON
	OFF	Switched OFF
Power window switch	UP	Window closes
	DOWN	Window opens
	AUTO UP	Window easily closes with one action
	AUTO DOWN	Window easily opens with one action
	LOCK	Prevents all switches other than the main switch from operating the power windows
	UNLOCK	Every switch can open or close the respective window
Remote controlled mirror switch	LH	LH mirror operates
	RH	RH mirror operates
Shift switch assembly	AUTO MODE	Shift changes occur automatically in D (DRIVE) position
	SPORTS MODE	Manual shift changes between 1st and 4th are possible
	UP	Upshifting occurs one gear at a time
	DOWN	Downshifting occurs one gear at a time
Sunroof switch	OPEN	Sunroof slides to open
	UP	Sunroof tilts up
	CLOSE/DOWN	Sunroof tilts down or slides to close
Switch and relay	OFF	Switched OFF
	ON	Switched ON
Turn signal switch	LH	LH turn signal lamps ON
	RH	RH turn signal lamps ON
Variable intermittent wiper control switch	SLOW	Lengthen pause time for intermittent operation
	FAST	Shorten pause time for intermittent operation
Windshield wiper switch or rear wiper switch	MIST	Wiper operates once
	INT	Wiper operates intermittently
	LO	Wiper operates at low speed
	HI	Wiper operates at high speed

4. For others

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
2WD	Front wheel-drive vehicles	IC	Integrated circuit
4WD	4 wheel-drive vehicles	ILL	Illumination lamp
AC	Alternating current	J/B	Junction block
CPU	Central processing unit	J/C	Joint connector
ECU	Electronic control unit	LH	Left hand
EGR	Exhaust gas recirculation	LHD	LH drive vehicles
ETACS	Electronic time and alarm control system	LO	Low
GND	Earth	RH	Right hand
HI	High	RHD	RH drive vehicles