GROUP 00E

GENERAL <ELECTRICAL>

CONTENTS

HOW TO READ WIRING DIAGRAMS

COMPOSITION AND CONTENTS OF WIRING DIAGRAMS

M1001012800194

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	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. • ETACS-ECU The entire circuit for the ETACS-ECU is described, because only the part of the ETACS-ECU needed is normally shown in each circuit diagram. • J/C 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: Instrument panel
  - D: Floor
  - E: Roof
  - F: Door
  - G: Tailgate

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.

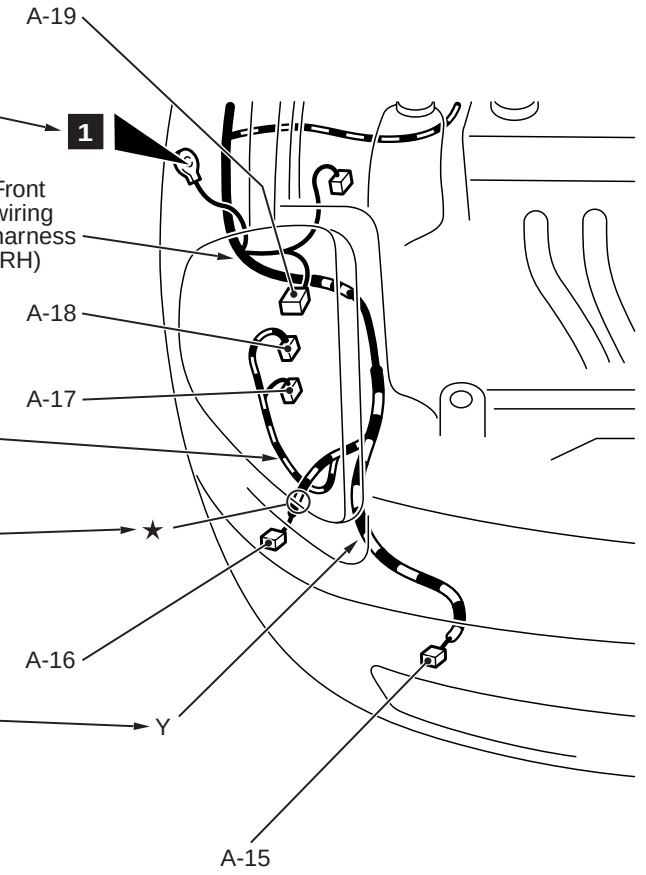
Denotes the colour of the tube (If not specified, it is black).
R: Red
Y: Yellow

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.

AC208446BD

HOW TO READ CIRCUIT DIAGRAMS

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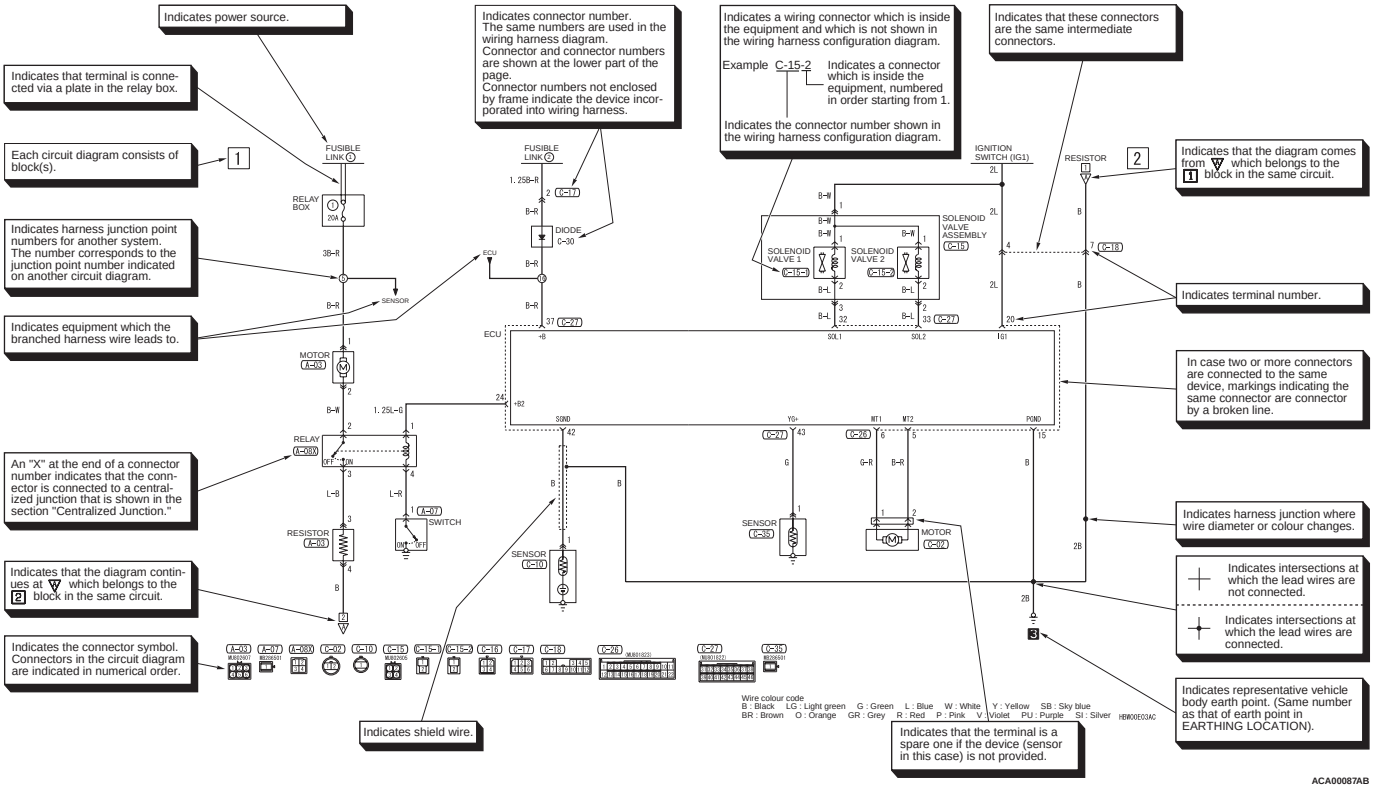
The circuit of each system from the fuse (or fusible link) to earth is shown. The power source is shown at the top and the earth at the bottom to facilitate understanding of how the current flows. The circuit diagrams show the state when switches are not operated.



MARKINGS FOR CONNECTOR AND EARTHING

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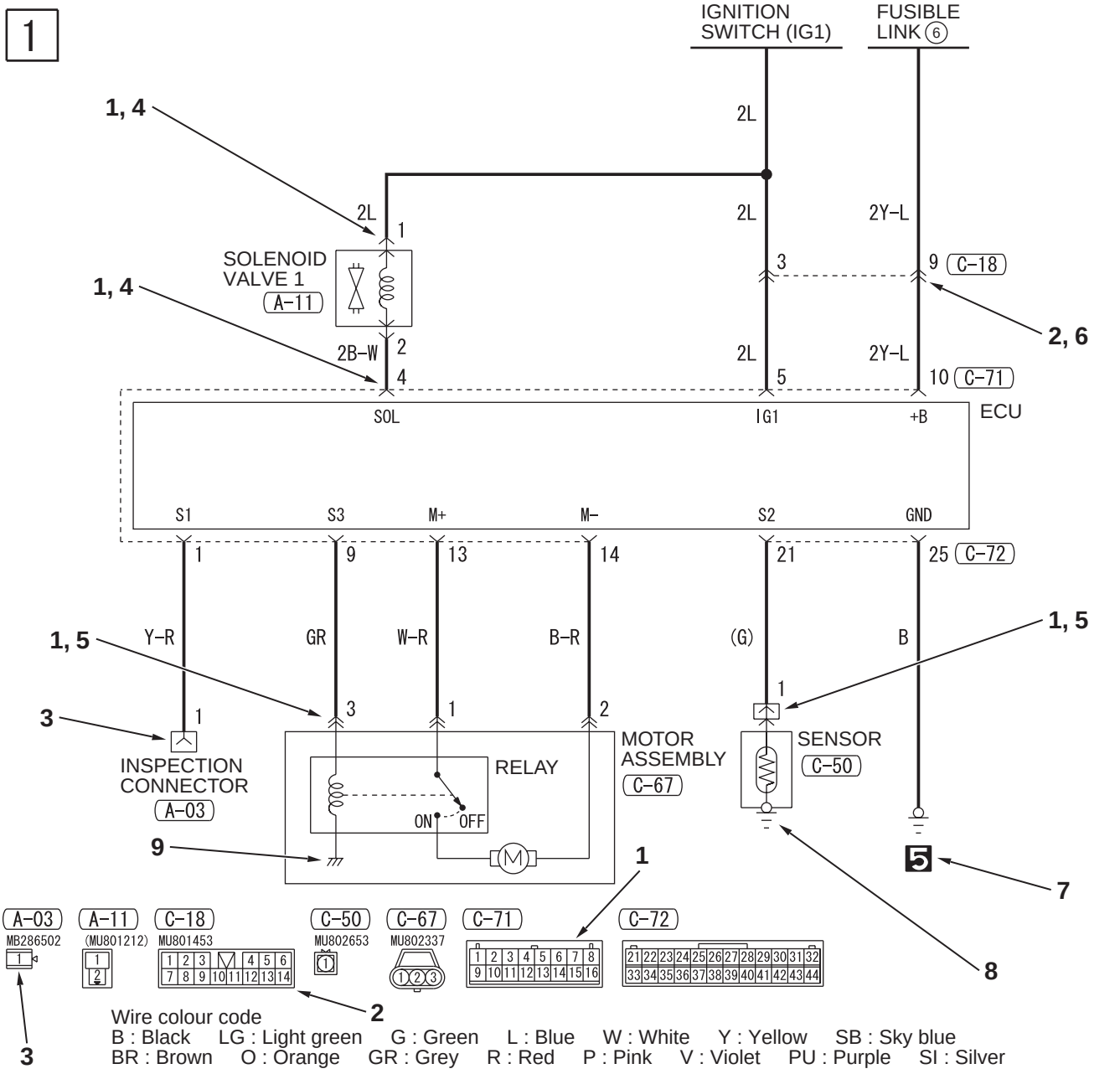
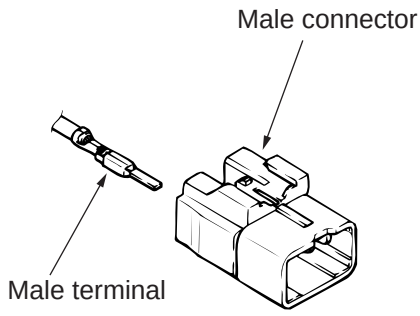
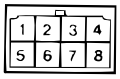
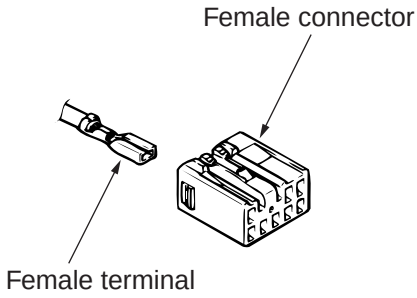
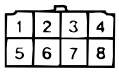
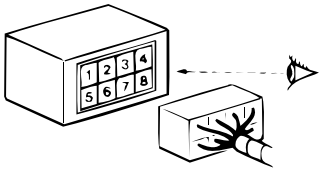
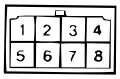
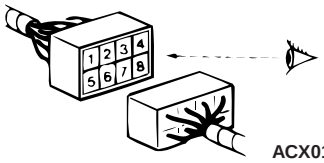
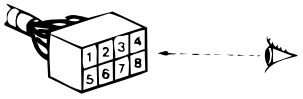
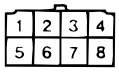
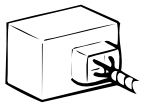
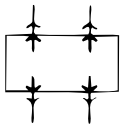
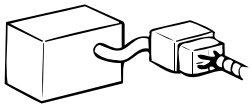
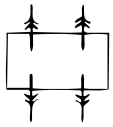
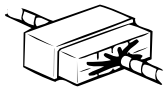


ACA00254AB

Item	No.	Connector/Earthing	Symbol	Contents
Connector and terminal marking	–	 ACX01251AE	Male terminal  ACX01252AD	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.
			Male connector  ACX01253AI	
		 ACX01254AD	Female terminal  ACX01255AD	
			Female connector  ACX01256AH	
Connector symbol marking	1	Device  ACX01257AD	 ACX01253	The symbol indicates the connector is viewed as shown. At a device connection, the connector symbol on the device side is shown. For an intermediate connector, the male connector symbol is shown. For spare connectors and check connectors, no device is connected, and so the harness-side connector symbol is shown for these connectors. However, a diagnosis connector is exceptional.
	2	Intermediate connector  ACX01258AD		
	3	Spare connector, check connector  ACX01816AD	 ACX01256	

Item	No.	Connector/Earthing	Symbol	Contents
Connector connection marking	4	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.
	5	Harness connection type  ACX01262 AD	 ACX01263	
	6	Intermediate connector  ACX01264 AD	 ACX01265	
Earth marking	7	Body earth  AC208448 AB	 ACX01274	Earthing is either by body earth, device earth or control unit interior earth. These are indicated as illustrated.
	8	Device earth  AC208449 AB	 ACX01276	
	9	Earth in control unit  AC208450 AB	 ACX01278	

WIRE COLOUR CODE

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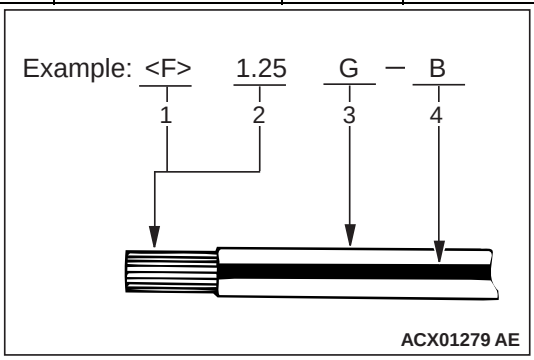
Wire colours are identified by the following colour codes.

Code	Wire colour	Code	Wire colour	Code	Wire colour	Code	Wire colour
B	Black	L	Blue	PU	Purple	V	Violet

Code	Wire colour	Code	Wire colour	Code	Wire colour	Code	Wire colour
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 mm^2. Cable colour code in parentheses indicates 0.3 mm^2.*

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
4WD	4 wheel-drive vehicles	INVECS	Intelligent and innovative vehicles electronic control system
ABS	Anti-skid braking system		
ASC	Active stability control system	J/C	Joint connector
CAN	Controller area network	KOS	Keyless operation system
CVT	Continuously variable transmission	MMCS	Mitsubishi multi-communication system
ETACS	Electronic time and alarm control system	SRS	Supplemental restraint system
HSA	Hill start assist	USB	Universal serial bus

2. FOR COMBINATION METER

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
4WD AUTO	4WD automatic indicator display	EPS	Electric power steering system warning lamp/warning display
4WD-E	4WD ECO indicator lamp	F/GA	Fuel gauge display
4WD ECO	4WD ECO indicator display	FRONT FOG	Front fog lamp indicator lamp

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
4WD FAILURE	4WD system warning display	FUEL WARNING	Low fuel warning display
4WD LOCK	4WD lock indicator display	KOS	Keyless operation system indicator lamp/indicator display
ABS	Anti-skid braking system warning lamp/warning display	LCD	Liquid crystal display
ASC OFF	ASC off indicator display	LED	Light emitting diode
ASC OPERATION	ASC operation indicator lamp/indicator display	LOCK	4WD lock indicator lamp
ASC WARNING	ASC warning display	OIL PRESSURE	Oil pressure warning lamp/warning display
BEAM	High beam indicator lamp	OSS	One touch start system warning lamp/warning display
BRAKE	Brake warning lamp/warning display	REAR FOG	Rear fog lamp indicator lamp
CHECK ENGINE	Check engine warning lamp/warning display	SPEED	Speedometer
CHG	Charging warning lamp/warning display	SRS	Supplemental restraint system warning lamp/warning display
CRUISE	Cruise control system indicator lamp/indicator display	T/GA	Engine coolant temperature gauge display
CVT FAILURE	CVT system warning display	TACHO	Tachometer
CVT POSITION	CVT shift position indicator display	TAIL	Tail lamp indicator lamp/indicator display
CVT TEMP	CVT fluid temperature warning display	TURN (LH)/TURN (RH)	Turn-signal indicator lamp, hazard warning indicator lamp
DRIVER'S SEAT BELT	Driver's seat belt warning lamp/warning display	WATER TEMP	Engine coolant temperature warning lamp/warning display
EACH DOOR	Door-ajar warning lamp/warning display		

3. FOR SWITCHES AND RELAYS

Name of switches and relays	Abbreviation symbol	Operation
Dimmer / passing switch	LO	Low beam ON
	HI	High beam ON
	PASS	High beam ON
Door lock actuator, door lock switch	LOCK	Door lock
	UNLOCK	Door unlock
Front room lamp and rear room lamp	DOOR	Front room lamp ON and rear room lamp ON when a door is open
Headlamp manual levelling switch	0, 1, 2, 3, 4	Lower the optical axis of the headlamp (LO) in steps at each position

Name of switches and relays	Abbreviation symbol	Operation
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
	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	Selector lever is at the R (REVERSE) position
	N	Selector lever is at the N (NEUTRAL) position
	D	Selector lever is at the D (DRIVE) position
	L	Selector lever is at the L (LOW) position
Lighting switch	AUTO	Headlamps or tail lamps automatically illuminate by sensing ambient brightness
	HEAD	Headlamps ON
	TAIL	Tail, position, licence plate and illumination lamps ON
	FOG	Fog lamps (front fog lamp or rear fog lamp) ON
Others (switch or relay)	ON	Switched ON or relay ON
	OFF	Switched OFF or relay OFF
Paddle shift switch	UP	Upshift by one gear
	DOWN	Downshift by one gear
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
Power window lock switch	LOCK	Prevents all switches other than the main switch from operating the power windows
	UNLOCK	Every switch can open or close the respective window
Rear wiper switch	INT	Wiper operates intermittently
Remote controlled mirror switch	LH	LH mirror operates
	RH	RH mirror operates

Name of switches and relays	Abbreviation symbol	Operation
Steering wheel multi-function switch	INFO	Switches the information
	MODE	Switches the mode
	CH UP	Changes the radio frequency or the music number in the CD
	CH DOWN	
	VOL UP	Increases the sound volume
	VOL DOWN	Decreases the sound volume
	ON HOOK	On hook the phone
	OFF HOOK	Off hook the phone
	SPEECH	Switches to the speech recognition mode
Steering wheel speed control switch	CRUISE	Cruise control system ON or OFF
	RES +	Set the vehicle speed
	SET −	
	CANCEL	Cancel the driving at a constant speed
Sunroof switch	OPEN	Sunroof slides to open
	UP	Sunroof tilts to up
	CLOSE/DOWN	Sunroof tilts down or slides to close
Turn-signal switch	LH	LH turn-signal lamps ON
	RH	RH turn-signal lamps ON
Windshield intermittent wiper interval adjusting knob	SLOW	Lengthen pause time for intermittent operation
	FAST	Shorten pause time for intermittent operation
Windshield rain sensitive wiper function adjusting knob	−	Lowers the sensitivity of the lighting control sensor to the amount of rainfall.
	+	Raises the sensitivity of the lighting control sensor to the amount of rainfall.
Windshield wiper switch	AUTO	The windshield wiper operates depending on the amount of rainfall.
	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 vehicle	IG	Ignition
A/C	Air conditioner	ILL	Illumination lamp
ACC	Accessory	IND	Indicator lamp
CTR	Centre	LH	Left hand
CPU	Central processing unit	LIN	Local interconnect network
ECU	Electronic control unit	LO	Low

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
GND	Earthing	OSS	One touch start system
HI	High	RHD	Right hand drive vehicles
IC	Integrated circuit	UHF	Ultrahigh frequency