

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 terminals, 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. The circuits classified by system also include operation and troubleshooting hints.</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
- 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 corrugated 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: Gray |
| R: Red | None: Milk white |

A-19

1

Front wiring harness (RH)

A-18

A-17

A-16

Y

A-15

- | | |
|-------------|-------------------------|
| 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.

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HOW TO READ CIRCUIT DIAGRAMS

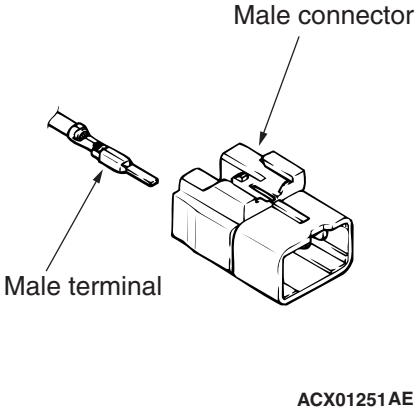

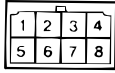
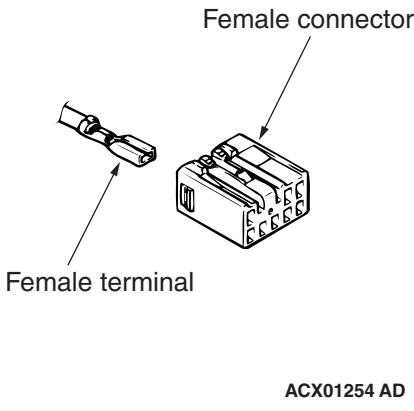

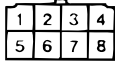
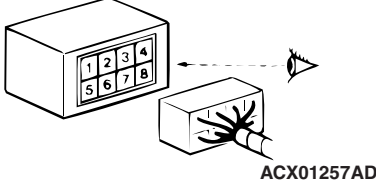
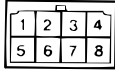
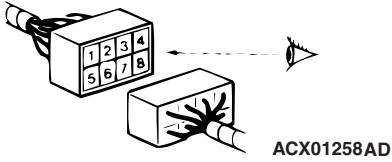
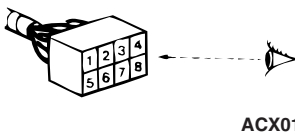

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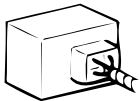
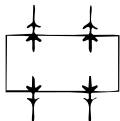
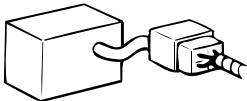
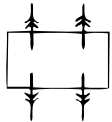






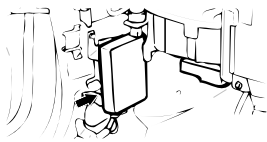

The circuit of each system from the fuse (or fusible link) to earth is shown. The power source is shown at the top and the earth at the bottom to facilitate understanding of how the current flows.



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Item	No.	Connector/Earthing	Symbol	Contents
Connector and terminal marking	1	<p>Male connector</p>  <p>Male terminal</p> <p>ACX01251 AE</p>	<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 connector</p>  <p>Female terminal</p> <p>ACX01254 AD</p>	<p>Female terminal</p>  <p>ACX01255 AD</p>	
			<p>Female connector</p>  <p>ACX01256 AH</p>	
Connector symbol marking	2	<p>Device</p>  <p>ACX01257 AD</p>	 <p>ACX01253</p>	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.
		<p>Intermediate connector</p>  <p>ACX01258 AD</p>		
		<p>Spare connector, check connector</p>  <p>ACX01816 AD</p>	 <p>ACX01256</p>	

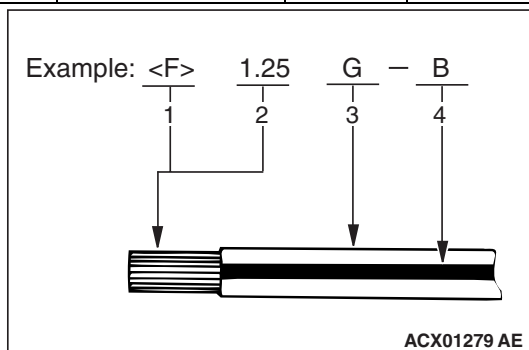
Item	No.	Connector/Earthing	Symbol	Contents
Connector connection marking	3	Direct connection type  ACX01260 AD	 ACX01261	Connection between a device and the harness is either by direct insertion in the device (direct connection type) or by connection with a harness connector furnished on the device side (harness connection type). The two types are indicated as illustrated.
	4	Harness connection type  ACX01262 AD	 ACX01263	
	5	Intermediate connector  ACX01264 AD	 ACX01265	
Earth markings	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	R	Red	Y	Yellow
BR	Brown	LG	Light green	SB	Sky blue	—	—
G	Green	O	Orange	V	Violet	—	—
GR	Gray	P	Pink	W	White	—	—



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 (0.0008 in²). Cable colour code in parentheses indicates 0.3 mm² (0.0005 in²).

The abbreviation symbols used in wiring diagrams are defined below.

1. Abbreviation symbols used for system name

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
A/T	Automatic transmission	INVECS	Intelligent and innovative vehicle electronic control system
ABS	Anti-skid braking system	LHD	L.H. drive vehicles
ASC	Active stability control system	M/T	Manual transmission
CAN	Controller area network	PTC	Positive temperature coefficient
EBD	Electronic brake-force distribution	RHD	R.H. drive vehicles
		SRS	Supplemental restraint system

ABBREVIATION SYMBOLS

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2. Abbreviation symbols used for combination meters

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
ABS	Anti-skid braking system warning lamp	ODO/TRIP	Odometer, tripmeter
ASC/TCL	ASC/TCL indicator lamp	OIL	Oil pressure warning lamp
BEAM	High beam indicator lamp	OIL LEVEL	Engine oil level warning lamp
BRAKE	Brake warning lamp	POSITION	Position lamp indicator lamp
CHECK ENGINE	Check engine warning lamp	P.R.N.D	Selector lever position indicator lamp
CHG	Charging warning lamp	REAR FOG	Rear fog lamp indicator lamp
CRUISE	Auto-cruise control system indicator lamp	SEAT BELT	Seat belt warning lamp
DOOR	Door-ajar warning lamp	SPEED	Speedometer
F/GA	Fuel gauge	SRS	Supplemental restraint system warning lamp
FET	Field-effect transistor	T/GA	Engine coolant temperature gauge
FRONT FOG	Front fog lamp indicator lamp	TACHO	Tachometer
FUEL	Low fuel warning lamp	TCL OFF	TCL off indicator lamp
LCD	Liquid crystal display	TURN (LH)	Turn signal indicator lamp, hazard warning indicator lamp
LED	Light emitting diode	TURN (RH)	

3. Abbreviation symbols used for switches and relays

Name of switches and relays	Abbreviation symbol	Operation
Dimmer passing switch	LO	Low beams ON
	HI	High beams ON
	PASS	High beams ON
Door lock actuator, door key switch	LOCK	Door locked
	UNLOCK	Door unlocked
Headlamp leveling 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

Name of switches and relays	Abbreviation symbol	Operation
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
Lighting switch	TAIL	Tail, position, 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 is easily closed with one action
	AUTO DOWN	Window is easily opened 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
Rear wiper switch	INT	Rear wiper operates intermittently
	LO	Rear wiper operates at low speed
Remote controlled mirror switch	LH	L.H. mirror operates
	RH	R.H. mirror operates
Room lamp, rear personal lamp, luggage compartment lamp	DOOR	Room lamp, personal lamp or luggage compartment lamp ON when a door is open
Shift switch assembly	AUTO MODE	Shift changes occur automatically in D (DRIVE) range
	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
	CLOSE	Sunroof slides to close
Turn signal switch	LH	L.H. turn signal lamps ON
	RH	R.H. turn signal lamps ON
Variable intermittent wiper control switch	SLOW	Pause time for intermittent operation lengthens
	FAST	Pause time for intermittent operation shortens
Windshield wiper switch	MIST	Windshield wiper operates once
	INT	Windshield wiper operates intermittently
	LO	Windshield wiper operates at low speed
	HI	Windshield wiper operates at high speed
Wiper speed switching relay	LO	Windshield wiper operates at low speed
	HI	Windshield wiper operates at high speed

4. Other abbreviation symbols

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
A/C	Air conditioner	ILL	Illumination lamp
CPU	Central processing unit	IND	Indicator lamp
ECU	Electronic control unit	J/B	Junction block
DRL	Daytime running lamp	J/C	Joint connector
ETACS	Electronic time and alarm control system	LH	Left hand
GND	Earthing	LO	Low
HI	High	RH	Right hand
IC	Integrated circuit	TCL	Traction control