1 HOW TO READ THE WIRING DIAGRAMS

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MODELS

Model code	Engine model	Transmission model
F16ASNHEL6	6G72-SOHC	F5M33 (5M/T)
F16ASNHER6	6G72-SOHC	F5M33 (5M/T)
F16ASRHEL6	6G72-SOHC	F4A33 (ELC-4A/T)
F16ASRHER6	6G72-SOHC	F4A33 (ELC-4A/T)
F16ASNXML6	6G72-DOHC	F5M33 (5M/T)
F16ASNXMR6	6G72-DOHC	F5M33 (5M/T)
F16ASRXML6	6G72-DOHC	F4A33 (ELC-4A/T)
F16ASRXMR6	6G72-DOHC	F4A33 (ELC-4A/T)
F16ASRPML6	6G72-DOHC	F4A33 (ELC-4A/T)
F16ASRPMR6	6G72-DOHC	F4A33 (ELC-4A/T)

COMPOSITION AND CONTENTS OF WIRING DIAGRAMS

This manual consists of wiring harness diagrams, installation locations of individual parts, circuit diagrams and wiring diagram.

Section	Basic contents
Wiring harness configuration diagrams	Connector locations and harness wiring configurations on actual vehicles are illustrated.
Single part installation position	Locations are shown for earth points of relays, control units, sensors, diodes, check terminals, spare terminals, fusible links, fuses, etc. In the parts lists, parts are listed in alphabetical order.
Circuit diagrams	Circuits from power supply to earth are shown completely, classified according to system. There is a main division into power circuits, and circuits classified by system. The circuits classified by system also include operation and troubleshooting hints. • Power supply circuits Circuits from the battery to fusible link, dedicated fuses, ignition switch, general purpose fuses, etc. • Circuits classified by system For each system, the circuits are shown from fuse to earth, excluding the power supply sections. • Operation The normal operation of each system is briefly described, following the route of current flow. • Troubleshooting hints This is a brief explanation of the inspection points that serve as hints when troubleshooting. Explanations of the circuits controlled by the electronic control unit are omitted. Refer to the related publications as required. • Junction block Here is the circuit for the entire junction block since only the part of the junction block needed is normally show in each circuit diagram.
Wiring diagram	All the harnesses and connectors are shown together so that the circuit diagrams and wiring harnesses of the entire vehicle can be seen at a glance.

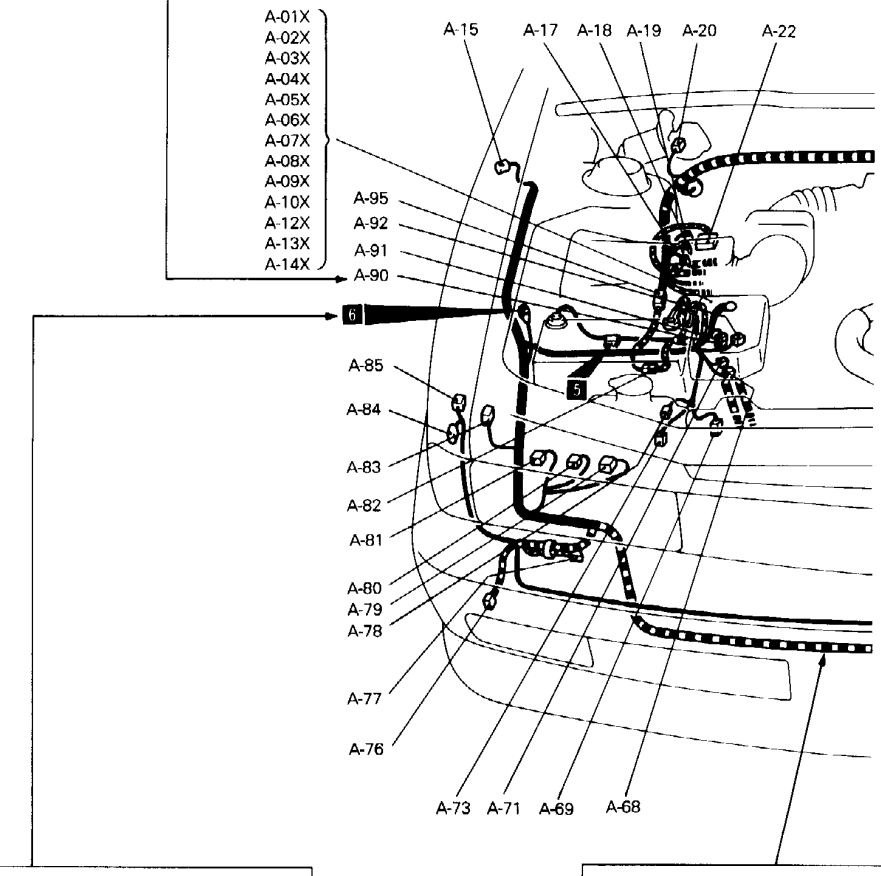
HOW TO READ CONFIGURATION DIAGRAMS

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

Denotes connector No.
The same connector No. is used throughout the circuit diagrams to facilitate connector location searches.
The first alphabetical symbol indicates the location site of the connector and a number that follows is the unique number. Numbers are assigned to parts in clockwise order on the diagram. When the connectors are centralized in one place, the connector colors are shown for easy identification.

Example: A-12 (black)

- Connector colour
- Number specific to connector (serial number)
- Connector location site symbol
  - A: Engine compartment
  - B: Engine and transmission
  - C: Dash panel
  - D: Instrument panel
  - E: Interior
  - F: Door
  - G: Luggage compartment
  - H: Trunk lid
  - J: Under rear floor

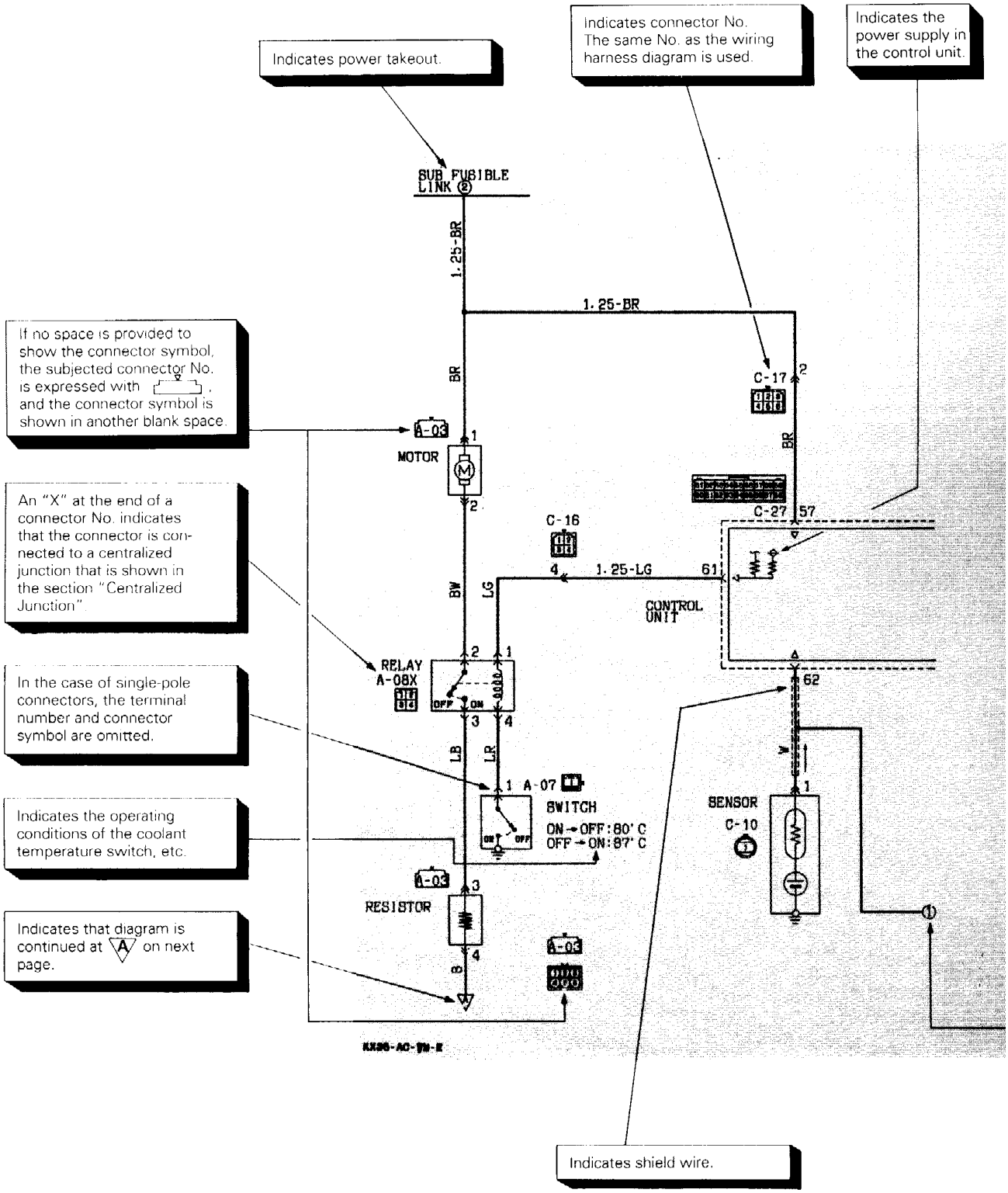


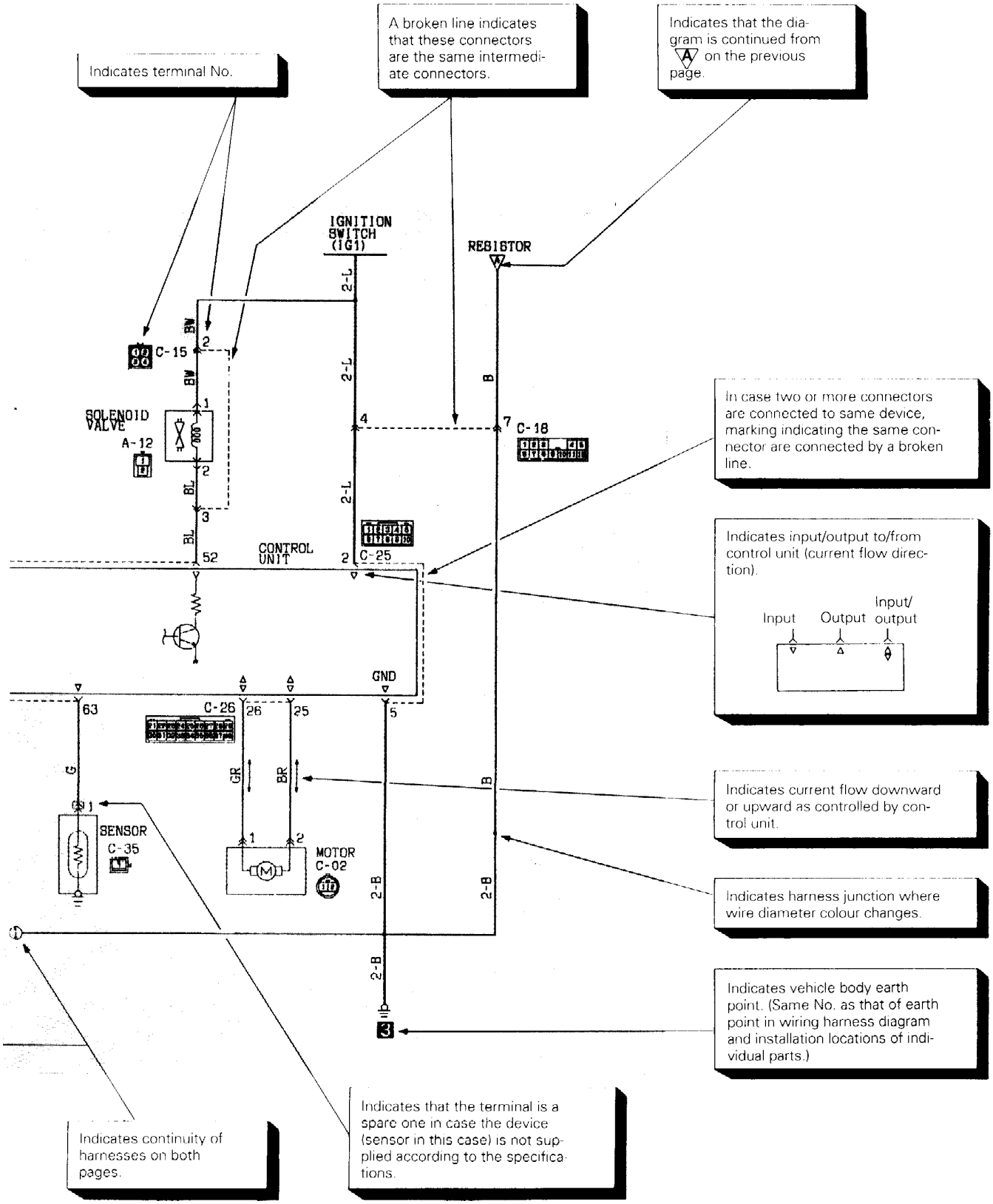
Denotes earth point.
Same earth number is used throughout circuit diagrams to facilitate search of earth point. Refer to GROUP 3 SINGLE PART INSTALLATION POSITION–EARTH MOUNTING LOCATIONS for details of earth points.

Denotes a section covered by a corrugated tube.

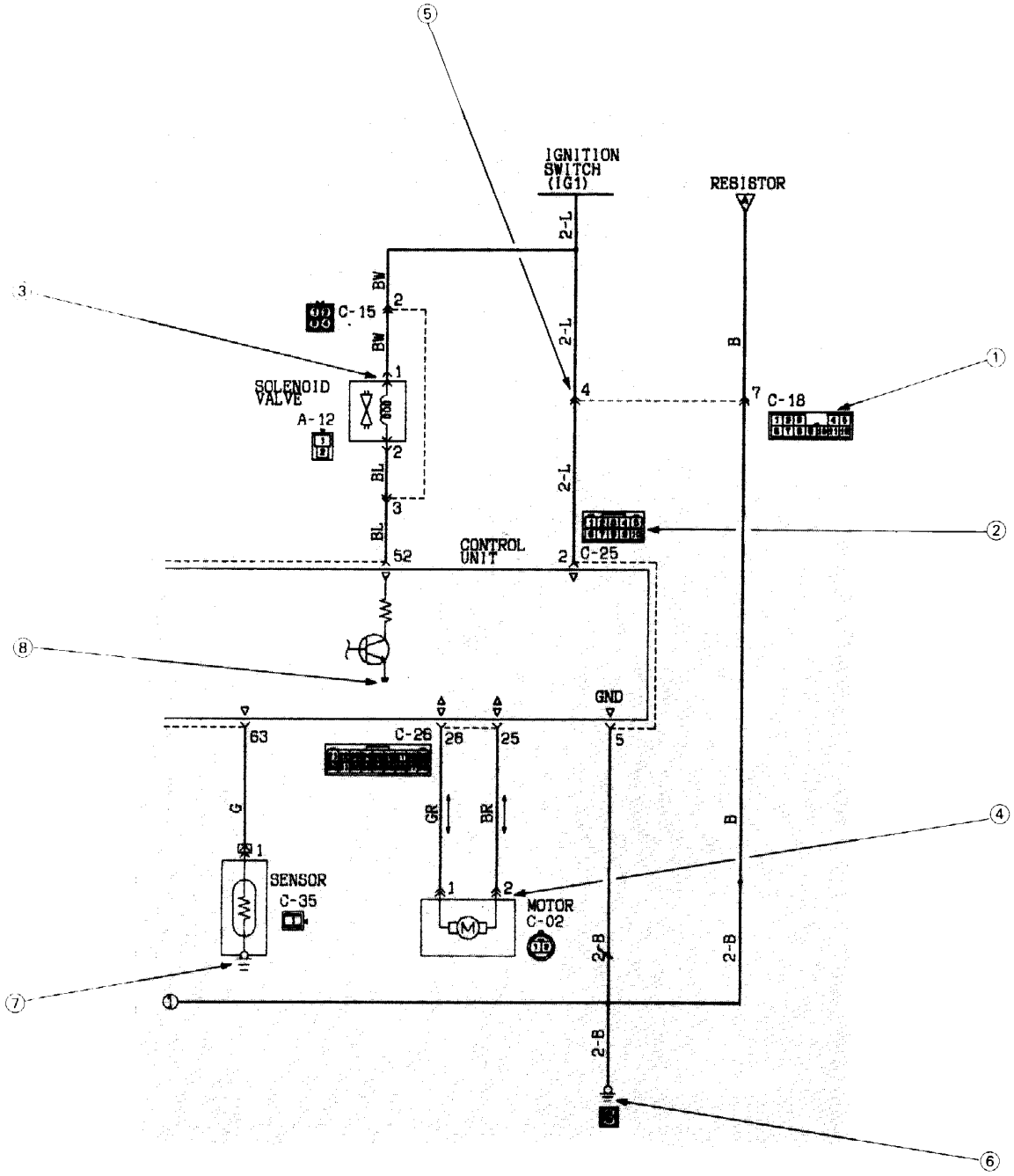
HOW TO READ CIRCUIT DIAGRAMS

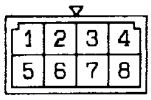
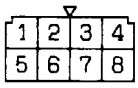
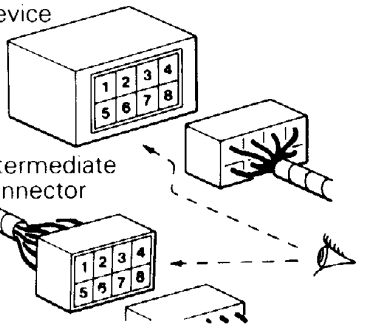
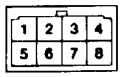
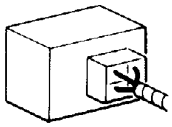
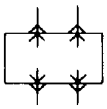
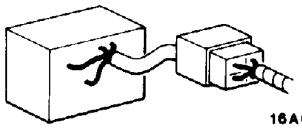
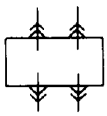
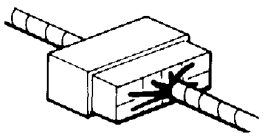
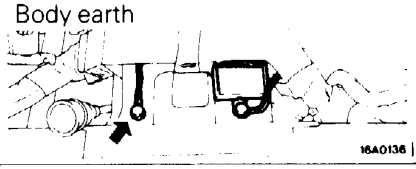
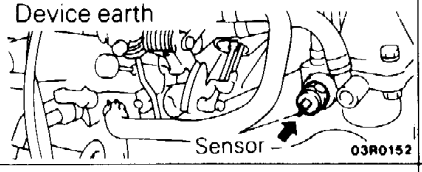
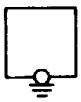
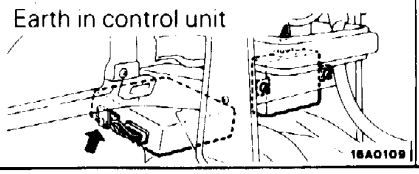
The circuit of each system from fuse (or fusible link) to earth is shown. The power supply is shown at the top and the earth at the bottom to facilitate understanding of the current flow.




Indicates terminal No.
A broken line indicates that these connectors are the same intermediate connectors.
Indicates that the diagram is continued from A on the previous page.
IGNITION SWITCH (IG1)
RESISTOR
C-15
SOLENOID VALVE
A-12
C-18
CONTROL UNIT
C-25
GND
C-26
SENSOR
C-35
MOTOR
C-02
In case two or more connectors are connected to same device, marking indicating the same connector are connected by a broken line.
Indicates input/output to/from control unit (current flow direction).
Input
Output
Input/ output
Indicates current flow downward or upward as controlled by control unit.
Indicates harness junction where wire diameter colour changes.
Indicates vehicle body earth point. (Same No. as that of earth point in wiring harness diagram and installation locations of individual parts.)
Indicates continuity of harnesses on both pages.
Indicates that the terminal is a spare one in case the device (sensor in this case) is not supplied according to the specifications.

MARKINGS FOR CONNECTOR EARTHING



	No.	Item	Symbol	Contents
Connector marking	①	Male 		Double connector contour lines indicate male connector terminals and single contour line indicates female terminals as illustrated here.
	–	Female 		
Connector symbol marking	②	Device 		The symbol indicates the connector as viewed from illustrated direction. At the connection with a device, the connector symbol on the device side is shown, and for an intermediate connector, male connector symbol is shown.
Connector connection marking	③	Direct connection type 		A connection between a device and connector on the harness side is either by direct insertion in the device (direct connection type) or by connection with a harness connector on the device side furnished (harness connection type). The two types are indicated as illustrated.
	④	Harness connection type 		
	⑤	Intermediate connector 		
Earth markings	⑥	Body earth 		Earth is either by body earth, device earth or control unit interior earth. These are indicated as illustrated.
	⑦	Device earth 		
	⑧	Earth in control unit 		

SYMBOLIC MARKS

Devices appearing in circuit diagrams are indicated by the following symbols.

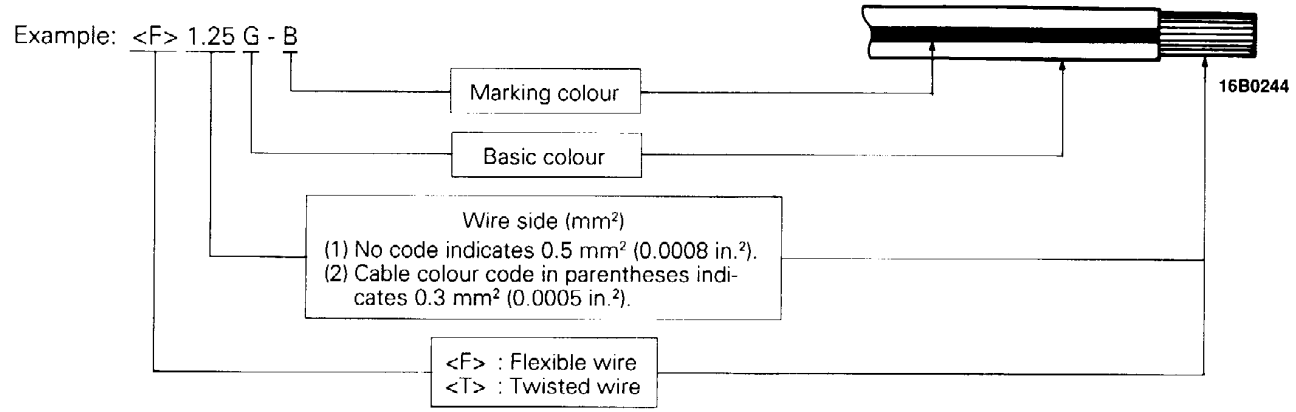
Battery	Body earth	Single bulb	Resistor	Diode	Capacitor
Fuse	Equipment earth	Dual bulb	Variable resistor	Zener diode	Crossing of wires without connection
Fusible link	ECU interior earth	Speaker	Coil	Transistor	Crossing of wires with connection
Connector (Female side / Male side)	Motor	Horn	Pulse generator	Buzzer	Chime
Thyristor	Piezoelectric device	Thermistor	Light emitting diode	Photo diode	Photo transistor

WIRE COLOUR CODES

Wire colours are identified by the following colour codes.

Code	Wire colour	Code	Wire colour
B	Black	P	Pink
BR	Brown	R	Red
G	Green	SB	Sky blue
GR	Gray	V	Violet
L	Blue	W	Whilte
LG	Light green	Y	Yellow
O	Orange		

NOTE
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 marking colour.



ABBREVIATION SYMBOLS

The abbreviation symbols used in wiring diagrams are defined below.

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
4WS	4 wheel steering system	ETACS	Electronic time and alarm control system
ABS	Anti-skid brake system	GND	Earth
DRL	Daytime running lamp	ILL	Illumination lamp
ECS	ACTIVE-electronic control suspension	IND	Indicator lamp
ELC-4 A/T	Electronic control 4-speed automatic transmission	J/B	Junction block
EPS	Electronic control power steering	TCL	Traction control system

Abbreviation symbols used for combination meters

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
4WS	4WS warning lamp	OIL	Oil pressure warning lamp
ABS	Anti-skid brake system warning lamp	OIL LEVEL	Low engine oil warning lamp
BEAM	Upper beam indicator lamp	R/FOG	Rear fog lamp indicator lamp
BRAKE	Brake warning lamp	REED	Reed switch (vehicle speed sensor)
CHECK ENGINE	Check engine warning lamp	TACHO	Tachometer
CHG	Charging warning lamp	T/GA	Engine coolant temperature gauge
DOOR	Door-ajar warning lamp	TURN (LH)	Turn signal indicator lamp (L.H.)
F/GA	Fuel gauge	TURN (RH)	Turn signal indicator lamp (R.H.)
FUEL	Low fuel warning lamp	WASHER	Low washer fluid warning lamp
HAZARD	Hazard warning indicator lamp		

Abbreviation symbols used for switches and relays

Name of switches and relays	Abbreviation symbol	Operation	Name of switches and relays	Abbreviation symbol	Operation
Dimmer passing switch	LO	Low beams ON	Turn signal switch	LH	L.H. turn signal lamps ON
	HI	High beams ON		RH	R.H. turn signal lamps ON
	PASS	Passing beams ON	Power window switch	UP	Window closed
Lighting switch	TAIL	Position, tail, license plate and instrument panel lamps ON		DOWN	Window opened
	HEAD	Headlamps ON		LOCK	Window locked
Room lamp switch	DOOR	Room lamp ON when a door is open		AUTO DOWN	Window is easily opened with one action.
			Door lock actuator	LOCK	Door locked
				UNLOCK	Door unlocked

Name of switches and relays	Abbre-viation symbol	Operation
Windshield wiper switch	LO	Wipers operate at low speed
	HI	Wipers operate at high speed
	AUTO	Wipers operate intermittently
Rear wiper switch	INT	Wiper operate intermittently
Door lock key cylinder switch	LOCK	Door locked
	UNLOCK	Door unlocked
RH/LH changeover switch	LH	L.H. mirror operates
	RH	R.H. mirror operates
ECS switch	SPORT	Suspension mode is set in the SPORT mode.
	HIGH	Vehicle height mode is set in the HIGH mode.
Sunroof switch	UP	Sunroof tilted up
	DOWN	Sunroof tilted down
	OPEN	Sunroof slides open
	CLOSE	Sunroof slides to close

Name of switches and relays	Abbre-viation symbol	Operation
Heated seat switch	LO	Normal heating
	HI	Rapid heating
Power seat switch	RECLINING FR	Seat back is stood upright.
	RECLINING RR	Seat back is leaned backward.
	SLIDE FR	Seat is moved forward.
	SLIDE RR	Seat is moved backward.
	FRONT HEIGHT UP	Front part of seat cushion is tilted up.
	FRONT HEIGHT DOWN	Front part of seat cushion is tilted down.
	REAR HEIGHT UP	Rear part of seat cushion is tilted up.
	REAR HEIGHT DOWN	Rear part of seat cushion is tilted down.
Others	ON	Switched on
	OFF	Switched off

APPLICABLE MODEL CATEGORIES

The applicable model categories are indicated below for easy identification.

Division	Contents
MPI	Indicates vehicles with multi-point injection
SOHC	Indicates vehicles with single overhead camshaft engine
DOHC	Indicates vehicles with double overhead camshafts engine
A/C	Indicates vehicles with air conditioner
A/T	Indicates vehicles with automatic transmission
M/T	Indicates vehicles with manual transmission
LHD	Indicates L.H. drive vehicles
RHD	Indicates R.H. drive vehicles