
HOW TO READ THE WIRING DIAGRAMS

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NOTES

MODELS

VEHICLES FOR G.C.C.

Model code		Engine model	Transmission model	Fuel supply system
F36A	TNHELJW	6G72-SOHC (2,972 ml)	F5M51 (2WD-5M/T)	MPI
	TNXELJW			
	TRHELJW		F4A51 (2WD-4 A/T)	
	TRXELJW			

VEHICLES FOR GENERAL EXPORT

Model	Model code		Engine model	Transmission model	Fuel supply system
Except vehicles for Hong Kong	F36A	TRHERJ1	6G72-SOHC (2,972 ml)	F4A51 (2WD-4 A/T)	MPI
		TRXERJ1			
Vehicles for Hong Kong	F36A	TRHERJD	6G72-SOHC (2,972 ml)	F4A51 (2WD-4 A/T)	MPI
		TRXERJD			

VEHICLES FOR CHINA

Model code		Engine model	Transmission model	Fuel supply system
F36A	TNXELJC	6G72-SOHC (2,972 ml)	F5M51 (2WD-5 M/T)	MPI
	TRXELJC		F4A51 (2WD-4 A/T)	

COMPOSITION AND CONTENTS OF WIRING DIAGRAMS

1. This manual consists of wiring harness diagrams, installation locations of individual parts, circuit diagrams and index.
2. In each section, all specifications are listed, including optional specifications. Accordingly, some specifications may not be applicable for individual vehicles.

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 each point of relays, electronic control units, sensors, solenoids, solenoid valves, diodes, inspection connectors, spare connectors, fusible links, fuses, etc. In the part's lists, parts are listed in alphabetical order.
Circuit diagrams	<p>Circuits from power supply to earth are completely, classified according to system. There is a main division into power circuits, and circuits classified by the 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 supply circuits Circuits from the battery to fusible link, dedicated fuses, ignition switch, general purpose fuses, etc. ● Circuits classified by the system For each system, the circuits are shown from the fuse to earth, excluding the power supply sections. ● Operation The standard 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.
Index	All components used are listed by connector number and component name.

HOW TO READ CONFIGURATION DIAGRAMS

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 searches.
 The first alphabetical symbol indicates the location site of the connector to parts in clockwise order on the diagram.
 In addition, the number of connector wires and the connector colour (except milk white)* are shown for ease of retrieval.
 Example: **A-77 (5-B)**

- Connector colour (milk white if no colour is indicated)
- Number of connector wires
- Number specific to connector (serial number)
- Connector location site symbol

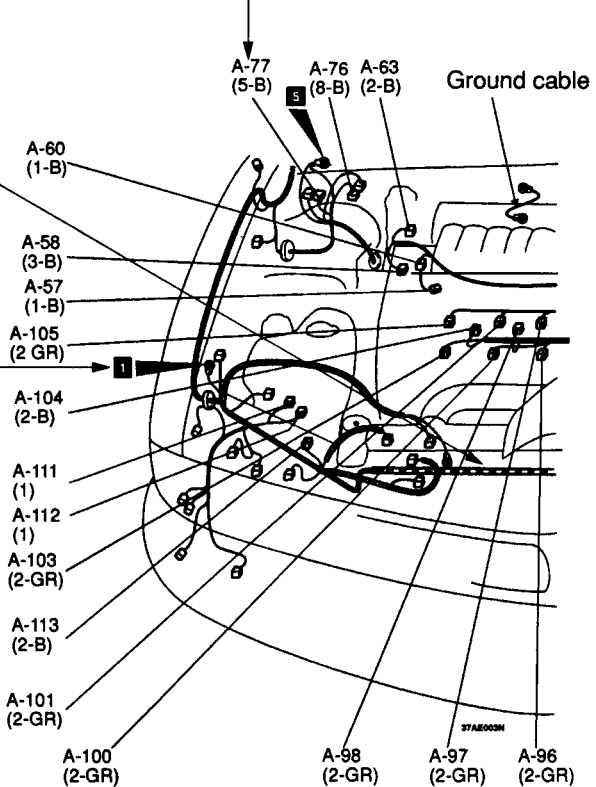
A : Engine compartment
 B : Dash panel
 C : Instrument panel
 D : Floor and roof
 E : Seat
 F : Door
 G : Luggage compartment
 H : Rear floor lower section

*: Typical connector colours
 B : Black
 Y : Yellow
 L : Blue
 G : Green
 R : Red
 BR: Brown
 V : Violet
 O : Orange
 GR: Gray

Denotes a section covered by a corrugated tube.

Denotes earth point.
 Same earth number is used throughout circuit diagrams to facilitate search of earth point. Refer to P.3-14 for details of earth points.

Indicates the device to which the connector is to be connected.

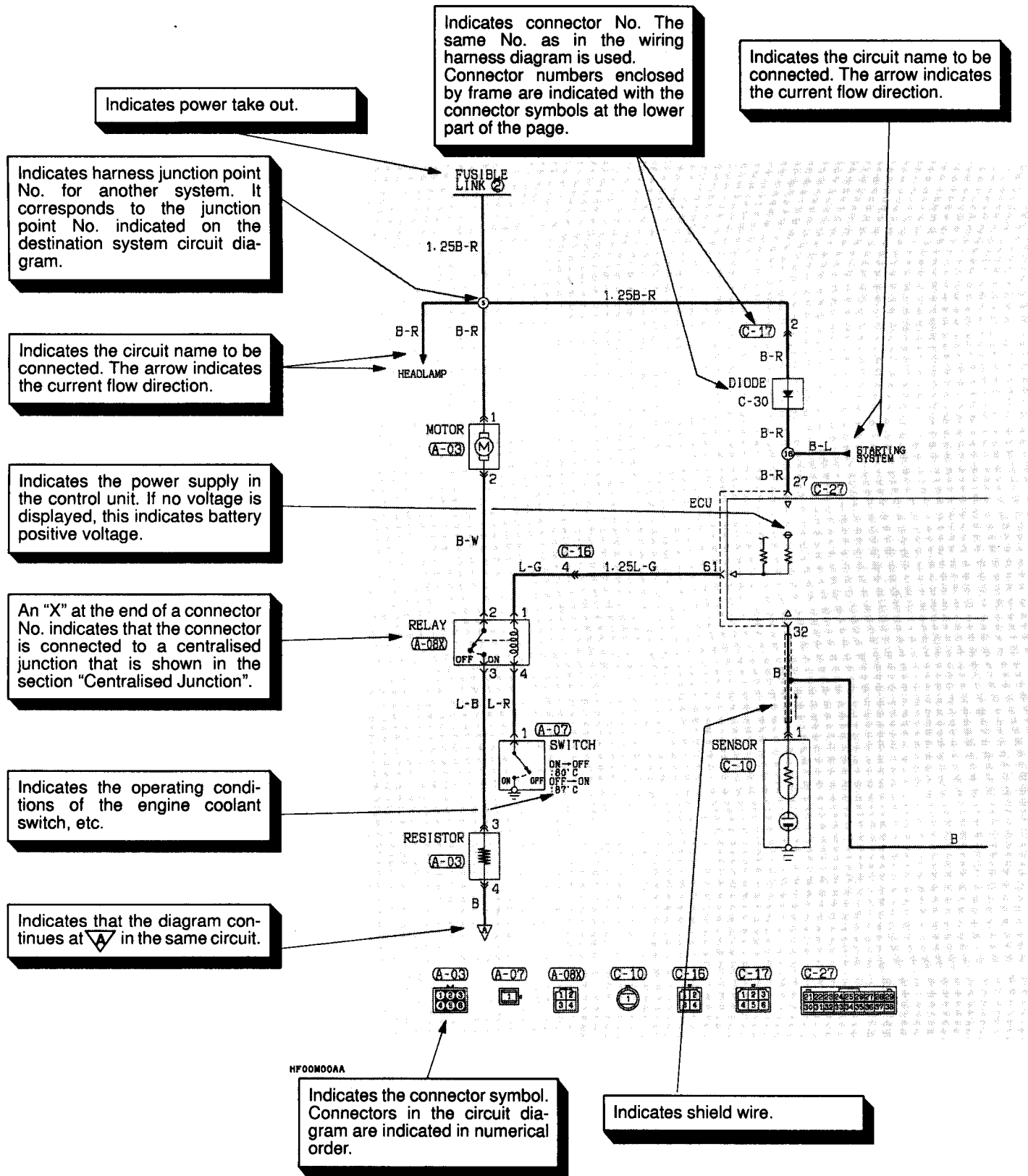


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|------|--|------|--|
| A-77 | Valve relay <ABS> | A-72 | Air flow sensor |
| A-57 | Power steering oil pressure switch | A-75 | Checking connector (for adjusting ignition timing, checking fuel pump) |
| A-58 | Crank angle sensor | A-76 | Hydraulic unit <ABS> |
| A-60 | Connection of control harness and power steering harness | A-82 | Distributor assembly |
| A-63 | Knock sensor | A-84 | Connection of control harness and battery harness |
| A-67 | Condenser | A-85 | Output shaft speed sensor |
| A-68 | Throttle position sensor | A-86 | Input shaft speed sensor |
| A-70 | Idle speed control servo | | |

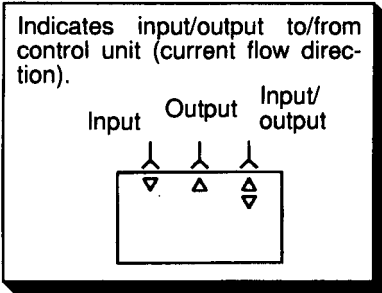
1-6 HOW TO READ THE WIRING DIAGRAMS – How to Read Circuit Diagrams

HOW TO READ CIRCUIT DIAGRAMS

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



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A broken line indicates that these connectors are the same intermediate connectors.

Indicates that the diagram comes from **A** in the same circuit.

Indicates terminal No.

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

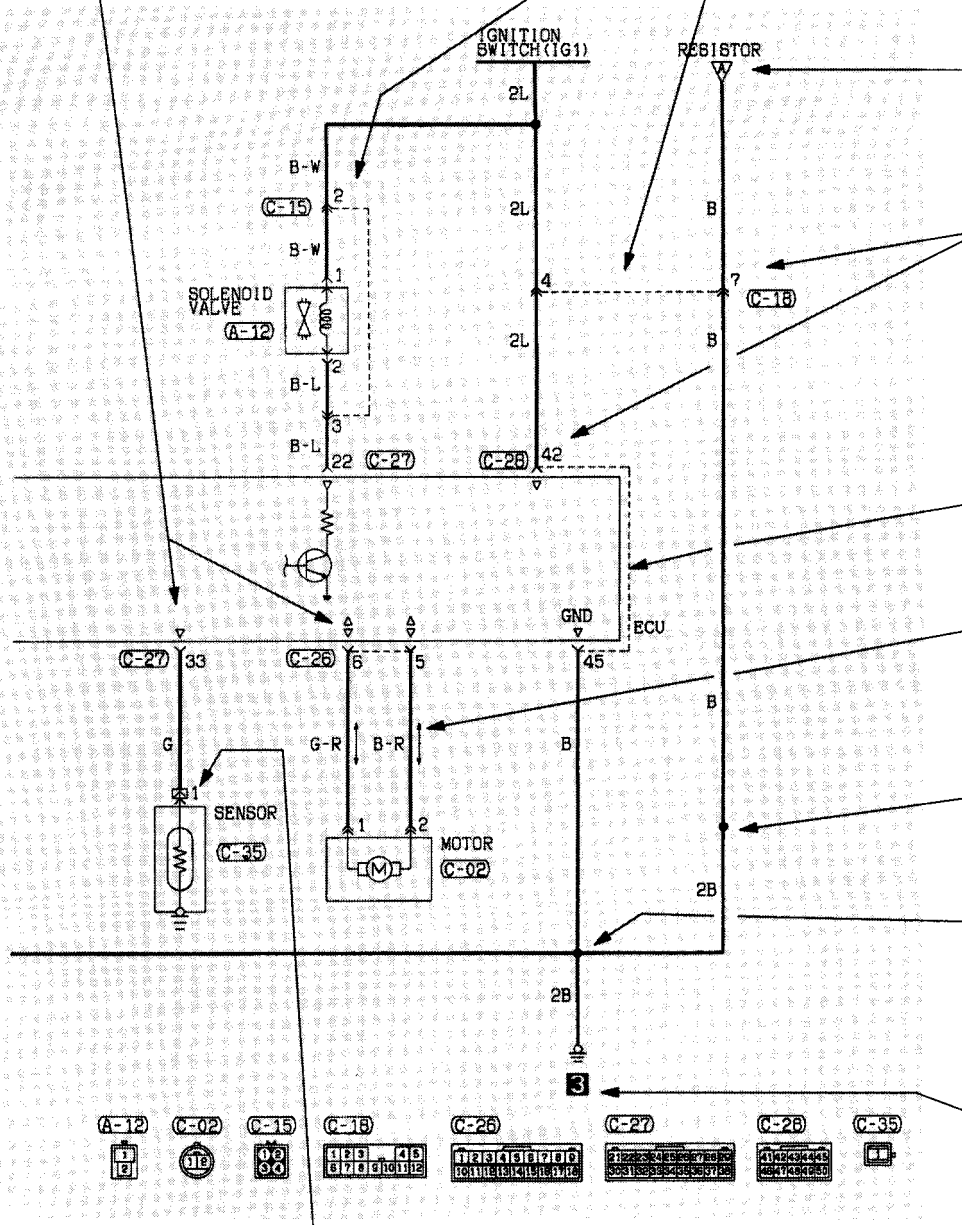
Indicates current flow downward or upward as controlled by the control unit.

Indicates harness junction where wire diameter or colour changes.

+ Indicates intersections at which the lead wires are not connected.

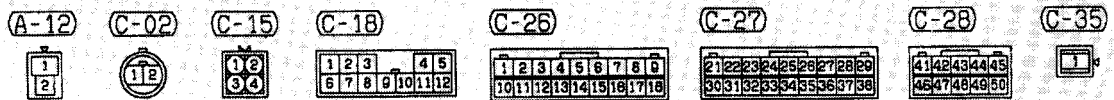
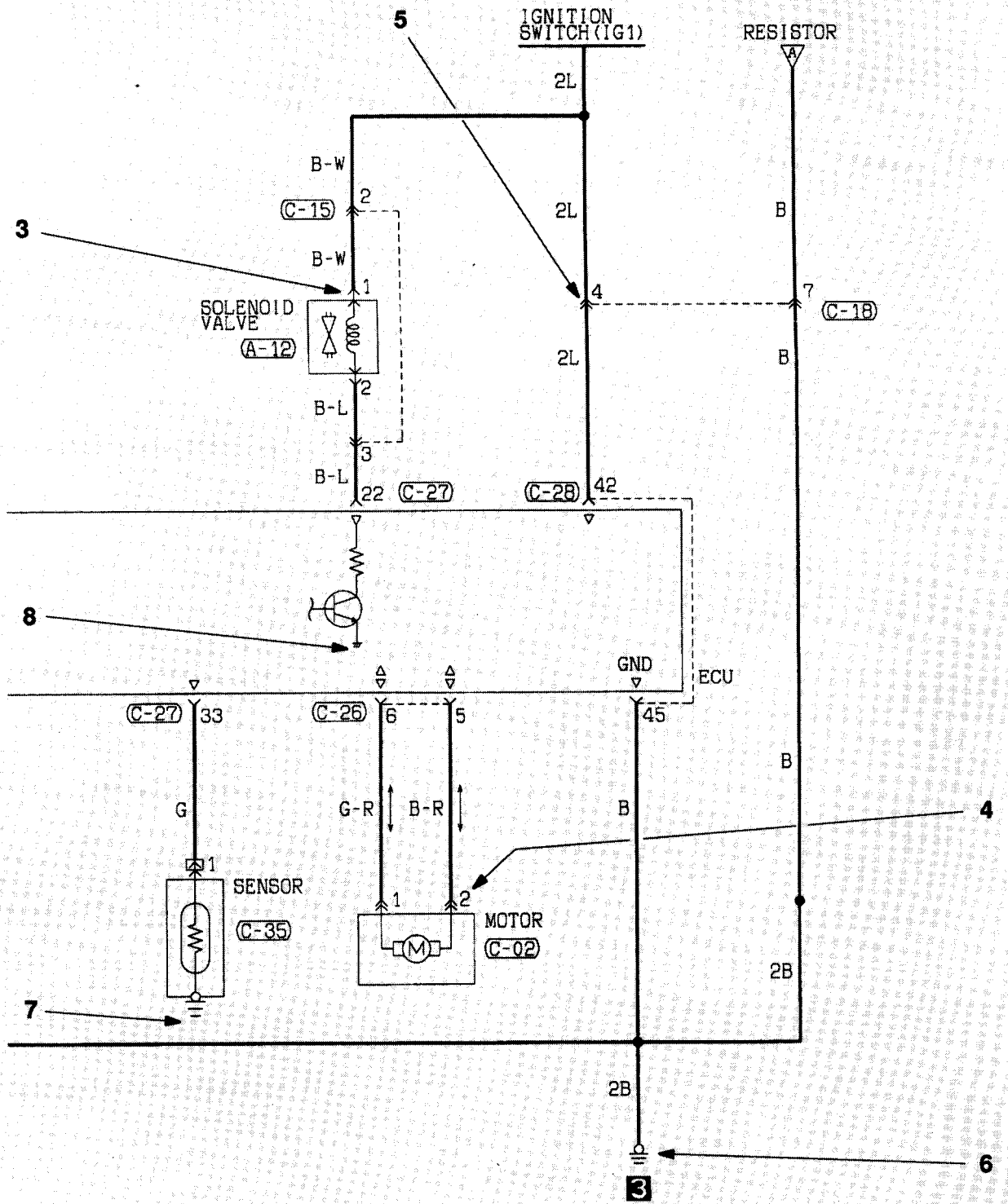
⊙ Indicates intersections at which the lead wires are not connected.





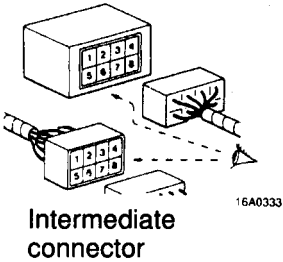


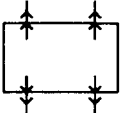
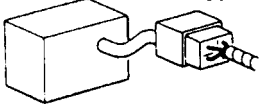
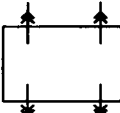
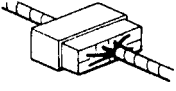

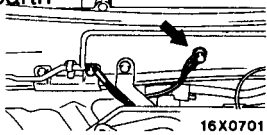

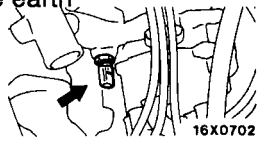



Indicates vehicle body ground point. (Same No. as that of ground point in GROUNDING LOCATION).



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

MARKINGS FOR CONNECTOR EARTHING

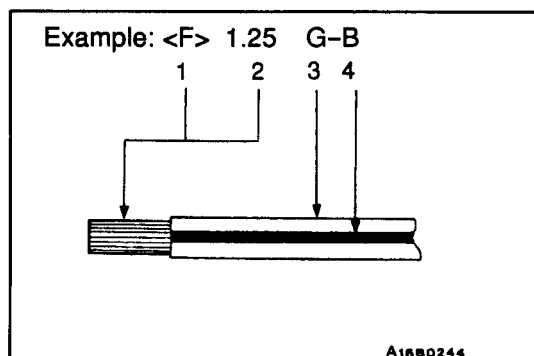


Item	NO.	Connector/Earthing	Symbol	Contents
Connector marking	1	Male  WH-1	 WH-3	Double connector contour lines indicate male connector terminals and single contour lines indicates female terminals as illustrated here.
	-	Female  WH-2	 WH-4	
Connector symbol marking	2	Device  Intermediate connector 16A0333	 WH-1	The symbol indicates the connector as viewed from the illustrated direction. At the connection with a device, the connector symbol on the device side is shown, and for an intermediate connector, the male connector symbol is shown. For the diagnosis connector, its contents differ from the previous description. Refer to "MUT-II operation instruction" in detail.
Connector connection marking	3	Direct connection type  16X0700 WH-5	 WH-5	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 furnished on the device side (harness connection type). The two types are indicated as illustrated.
	4	Harness connection type  16A0334	 WH-6	
	5	Intermediate connector  16A0339	 WH-7	
Earth markings	6	Body earth  16X0701	 WH-8	Earth is either by body earth, device earth or control unit interior earth. These are indicated as illustrated.
	7	Device earth  16X0702	 WH-9	
	8	Earth in control unit  16X0703	 WH-10	

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	White
LG	Light green	Y	Yellow
O	Orange	-	-



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

The abbreviation symbols used in wiring diagrams are defined below.

1. Abbreviation symbols used for wiring harness

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
ABS	Antilock braking system	ELC-4A/T	Electronic controlled 4-speed automatic transmission
A/C	Air conditioner	ETACS	Electronic time and alarm control system
A/T	Automatic transmission	MPI	Multi-point injection
EGR	Exhaust gas recirculation	M/T	Manual transmission
		SRS	Supplemental restraint system

2. Abbreviation symbols for combination meters

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
ABS	Antilock braking system warning lamp	OIL	Oil pressure warning lamp
BEAM	High beam indicator lamp	SEAT BELT	Seat belt warning lamp
BRAKE	Brake warning lamp	SPEED	Speedometer
CHECK ENGINE	Check engine warning lamp	SRS	Supplemental restraint system warning lamp
CHG	Charging warning lamp	TACHO	Tachometer
DOOR	Door-ajar warning lamp	T/GA	Engine coolant temperature gauge
F/GA	Fuel gauge	TURN (LH)	Turn signal indicator lamp (L.H.)
FUEL	Low fuel warning lamp	TURN (RH)	Turn signal indicator lamp (R.H.)

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3. Abbreviation symbols used for switches and relays

Names of switches and relays	Abbreviation symbols	Operation	Name of switches and relays	Abbreviation symbols	Operation
Ignition switch	ACC	When turned to the ACC (ACCESSORY) or ON position, the power circuit will start	Blower switch	LO	Blower operates at low speed
	IG1	Even when at the ST (START) position, the power circuit will start		ML	Blower operates at medium low speed
				MH	Blower operates at medium high speed
IG2	When at the ST (START) position, the power circuit will not start functioning	Windshield wiper switch	HI	Blower operates at high speed	
			LO	Wipers operate at low speed	
Dimmer passing switch	HI	High beams ON	Variable intermittent wiper control switch	HI	Wipers operate at high speed
	LO	Low beams ON		INT	Wipers operate intermittently
Lighting switch	TAIL	Position, tail, licence plate and instrument panel lamps ON	Rear wiper switch	SLOW	Pause time for intermittent operation lengthen
	HEAD	Headlamps ON		FAST	Pause time for intermittent operation shorten
Room lamp switch	DOOR	Room lamp ON when a door is open	Remote control mirror switch	LO	Wiper operates at low speed
				INT	Wiper operates intermittently
Turn signal switch	LH	L.H. turn signal lamps ON	Sunroof switch	LH	L.H. mirror operates
	RH	R.H. turn signal lamps ON		RH	R.H. mirror operates
Power window switch	UP	Window closes	Door lock actuator	OPEN	Sunroof slides to open
	DOWN	Window opens		CLOSE	Sunroof slides to close
Door lock key cylinder switch	LOCK	Door lock	Others	UP	Sunroof tilted up
	UN-LOCK	Door unlock		DOWN	Sunroof tilted down
Door lock key cylinder switch	LOCK	Door lock	Others	ON	Switched on
	UN-LOCK	Door unlock		OFF	Switched off

4. Other Abbreviation symbols

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
ECU	Electronic control unit	LH	Left hand
F/B	Fuse box	LHD	L.H. drive vehicles
GND	Earth	R/B	Relay box
ILL	Illumination lamp	RH	Right hand
IND	Indicator lamp	RHD	R.H. drive vehicles
J/B	Junction block	ROOM	Room lamp
J/C	Joint connector	SPOT	Stop lamp