HOW TO READ THE WIRING DIAGRAMS

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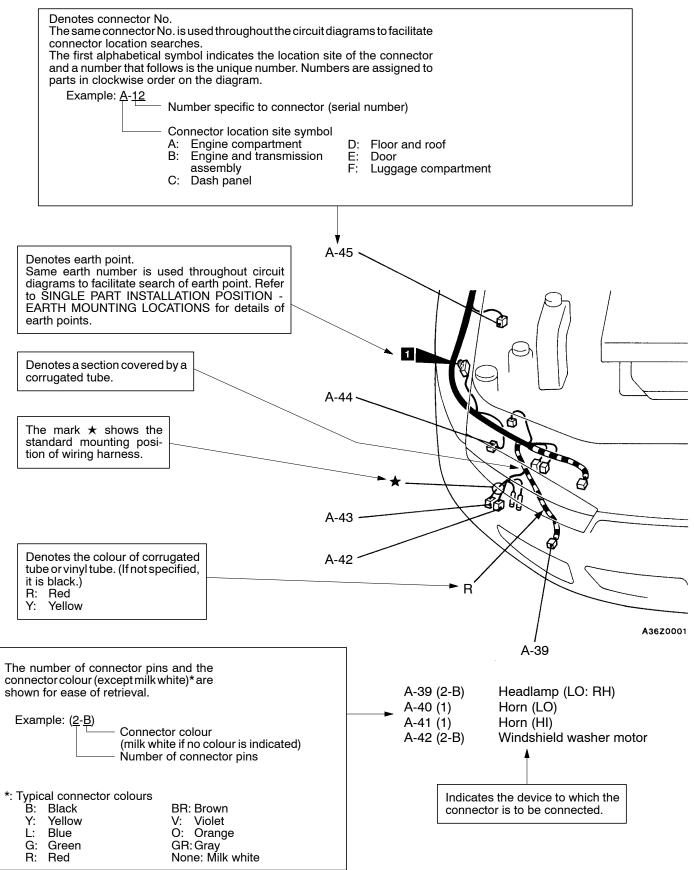
COMPOSITION AND CONTENTS OF WIRING DIAGRAMS

- (1) This manual consists of wiring harness diagrams, installation locations of individual parts, circuits 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	 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. 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 system For each system, the circuits are shown from 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.

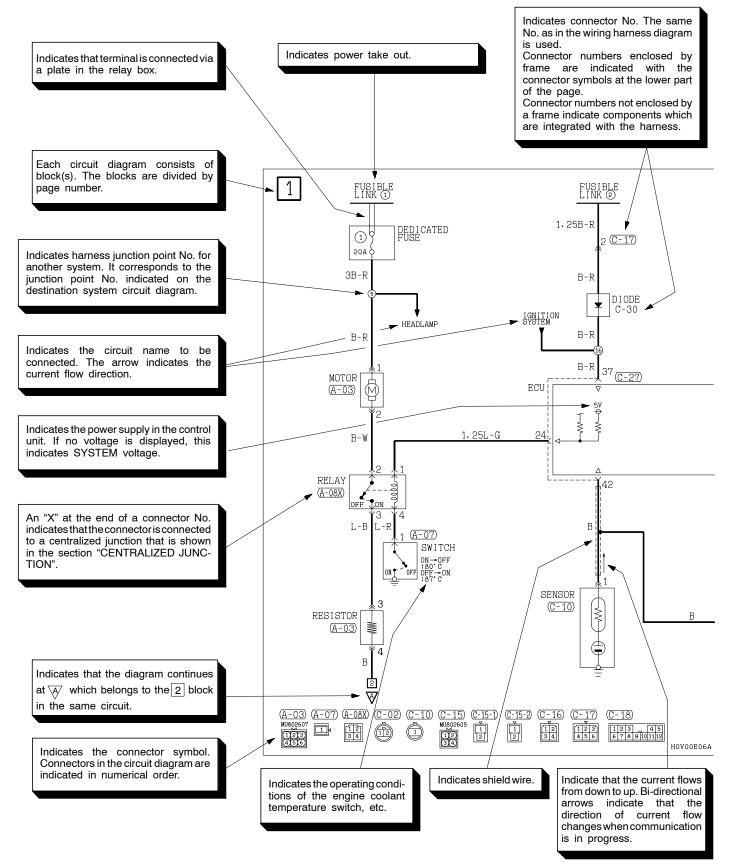
HOW TO READ CONFIGURATION DIAGRAMS

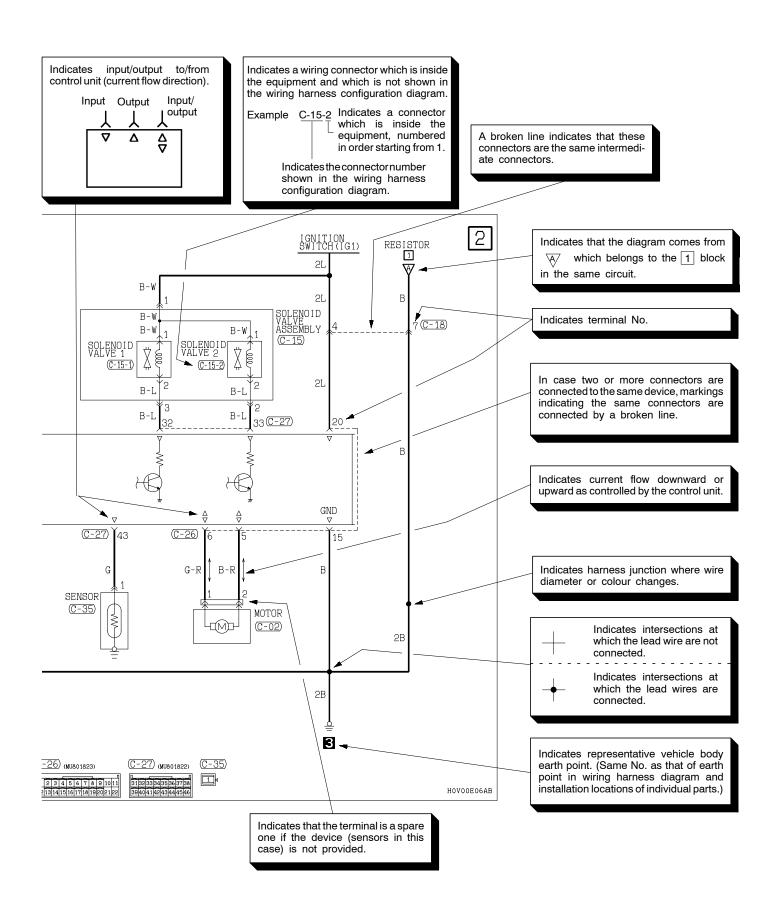
The wiring harness diagrams clearly show the connector locations and harness routings at each site on actual vehicles.



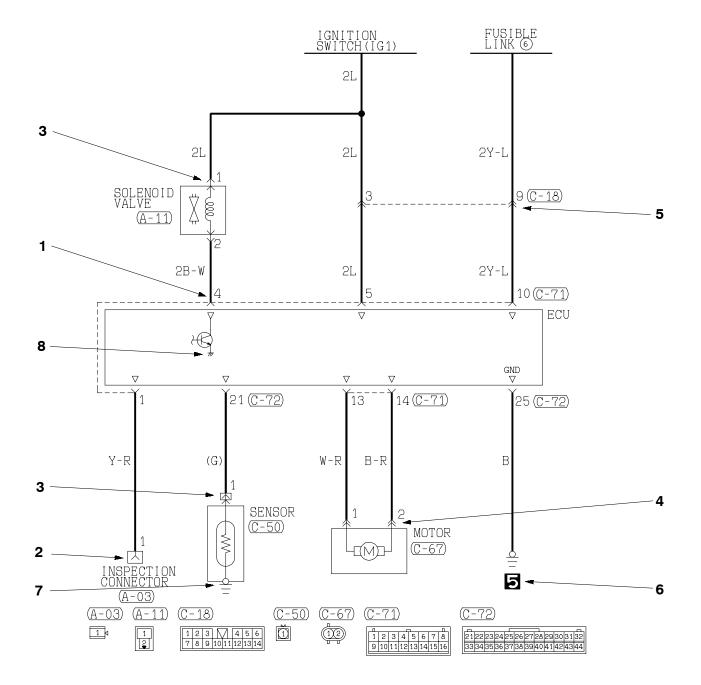
HOW TO READ CIRCUIT DIAGRAMS

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.





MARKINGS FOR CONNECTOR EARTHING



0V00E01AA

Item	No.	Connector/Earthing	Symbol	Contents
Connector and terminal marking	1	Male connector Male terminal	Male terminal \downarrow $_{16Z0021}$ Male connector $\boxed{1234}{5678}$ $_{16Z0016}$	The male and female terminals are indicated as shown. The connector with male terminal(s) is called as male connector and indicated by double connector contour linens, while the connector with female terminal(s) is called as female connector and indicated by single connector contour line.
	-	Female terminal	Female terminal 16Z0022 Female connector 1234 5678 16Z0017	
Connector symbol marking	2	Device	1 2 3 4 5 6 7 8 16Z0016	The symbol indicates the vehicle connector as viewed from the illustrated direction. At the connec- tion with a device, the connector symbol on the device side is shown, and for an intermediate connector, a male connector sym- bol is shown. For spare connectors and check connectors, no device is connected, and so the harness- side connector symbol is shown for these connectors. The details for the diagnosis connector differ from the above description. For details, refer to the "MUT-II operation instructions".
		Spare connector, check connector	1 2 3 4 5 6 7 8 16Z0017	

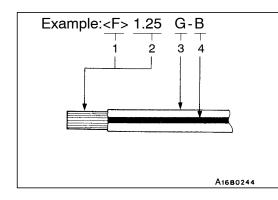
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Item	No.	Connector/Earthing	Symbol	Contents
Connector connection marking 3 Direct connection type			+ + + 16Z0023	A connection between a device and connector on the harness side is either by direct insertion in the device (direct connection type) or by connection with a harness connector on the device side furnished (harness connection type). The two types are indicated
	4	Harness connection type	+ + + + 16Z0024	as illustrated.
	5	Intermediate connector	16Z0025	
Earth markings	6	Body earth	<u>0</u> = 16Z0018	Earth is either by body earth, device earth or control unit interior earth. These are indicated as illustrated.
	7	Device earth	 = 16Z0019	
	8 Earth in control unit		# 16Z0020	

WIRE COLOUR CODES

Wire colours are identified by the follow colour codes.

Code	Wire colour	Code	Wire colour
В	Black	Р	Pink
BR	Brown	R	Red
G	Green	SB	Sky blue
GR	Gray	SI	Silver
L	Blue	V	Violet
LG	Light green	W	White
0	Orange	Υ	Yellow



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</f>
	<t>:Twisted wire</t>
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 system name

Abbreviation symbols	Meaning	Abbreviation symbols	Meaning
A/C	Air conditioner	EGR	Exhaust gas recirculation
ABS	Anti-skid braking system	ETACS	Electronic time alarm control system
ACD	Active center differential	SRS	Supplemental restraint system
AYC	Active yaw control		

2. Abbreviation symbols used for combination meters

Abbreviation symbols	Meaning	Abbreviation symbols	Meaning
ABS	Anti-skid braking system warning lamp	SNOW	Active center differential mode indicator lamp
BEAM	High beam indicator lamp	SPEED	Speedmeter
BRAKE	Brake warning lamp	SRS	Supplemental restraint system warning lamp
CHECK ENGINE	Check engine warning lamp	TARMAC	Active center differential mode indicator lamp
CHG	Charging warning lamp	T/GA	Engine coolant temperature gauge
DOOR	Door-ajar warning lamp	ТАСНО	Tachometer
F/GA	Fuel gauge TAIL		Tail, position and licence plate indicator
FRONT FOG	Front fog indicator lamp		lamp
FUEL	Low fuel warning lamp	TRIP	Tripmeter
GRAVEL	Active center differential mode indicator lamp	TURN (LH)	Turn signal indicator lamp (LH)
ODO	Odometer	TURN (RH)	Trun signal indicator lamp (RH)
OIL	Oil pressure warning lamp	WATER	Intercooler water spray indicator lamp
REAR FOG	Rear fog indicator lamp	JULAI	

3. Abbreviation symbols used for switched and relay

Name of switches and relays	Abbreviation symbols	Operation	
Blower switch	LO	Blower operates at low speed	
	ML	Blower operates at medium low speed	
	МН	Blower operates at medium high speed	
	HI	Blower operates at high speed	

Name of switches and relays	Abbreviation symbols	Operation	
Dimmer passing	LO	Low beams ON	
switch	н	High beams ON	
	PASS		
Door lock actuator	LOCK	Door lock	
	UNLOCK	Door unlock	
Headlamp leveling	1	Low beam light axis drops by one step	
switch	2	Low beam light axis drops by two step	
	3	Low beam light axis drops by three step	
	4	Low beam light axis drops by four step	
Ignition switch	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	
IG2 When at the ST (START) posi functioning		When at the ST (START) position, the power circuit will not start functioning	
		Water is sprayed while the switch is being pressed	
switch	AUTO	Water is sprayed automatically according to driving conditions	
Lighting switch TAIL Position, tail, licence plate and illumination		Position, tail, licence plate and illumination lamps ON	
	HEAD	Headlamps ON	
Others	OFF	Switched OFF	
	ON	Switched ON	
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	
Remote controlled	LH	L.H. mirror operates	
mirror switch	RH	R.H. mirror operates	
Room lamp switch	DOOR	Room lamp ON when a door is open	
Turn signal switch	LH	L.H. signal lamps ON	
	RH	R.H. signal lamps ON	

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Name of switches and relays	Abbreviation symbols	Operation
Windshield wiper	MIST	Wiper operates once
switch	INT	Wiper operates intermittently
	LO	Wiper operates at low speed
Н		Wiper operates at high speed

4. Other abbreviation symbols

Abbreviation symbols	Meaning	Abbreviation symbols	Meaning
ECU	Electronic control unit	LCD	Liquid crystal display
GND	Earth	LH	Left hand
ILL	Illumination lamp	LHD	L.H. drive vehicles
IND	Indicator lamp	RH	Right hand
J/B	Junction block	RHD	R.H. drive vehicles
J/C	Joint connector		