

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 : Trunk room
H : Rear floor lower section

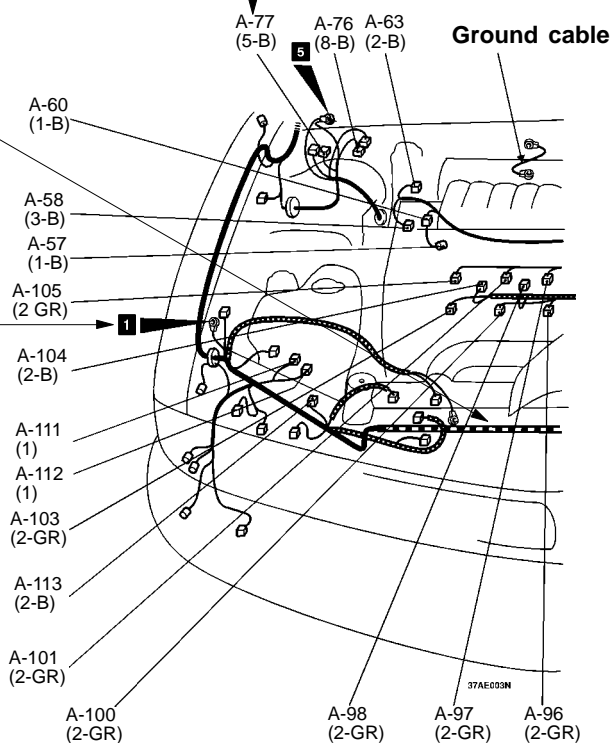
*: Typical connector colours

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.

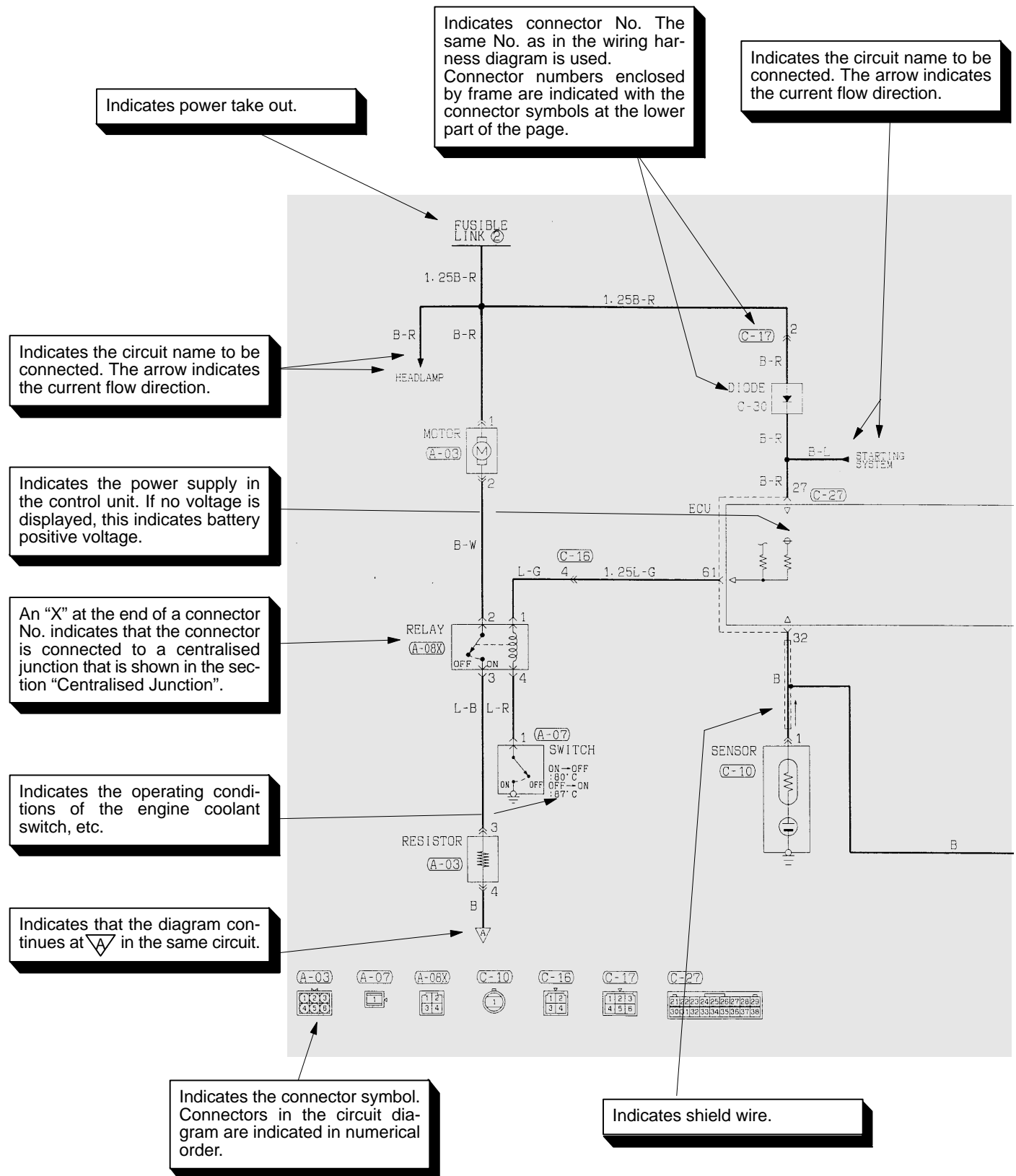
Denotes ground point.
Same ground number is used throughout circuit diagrams to facilitate search of ground point. Refer to [Group 54A](#) for details of ground points.

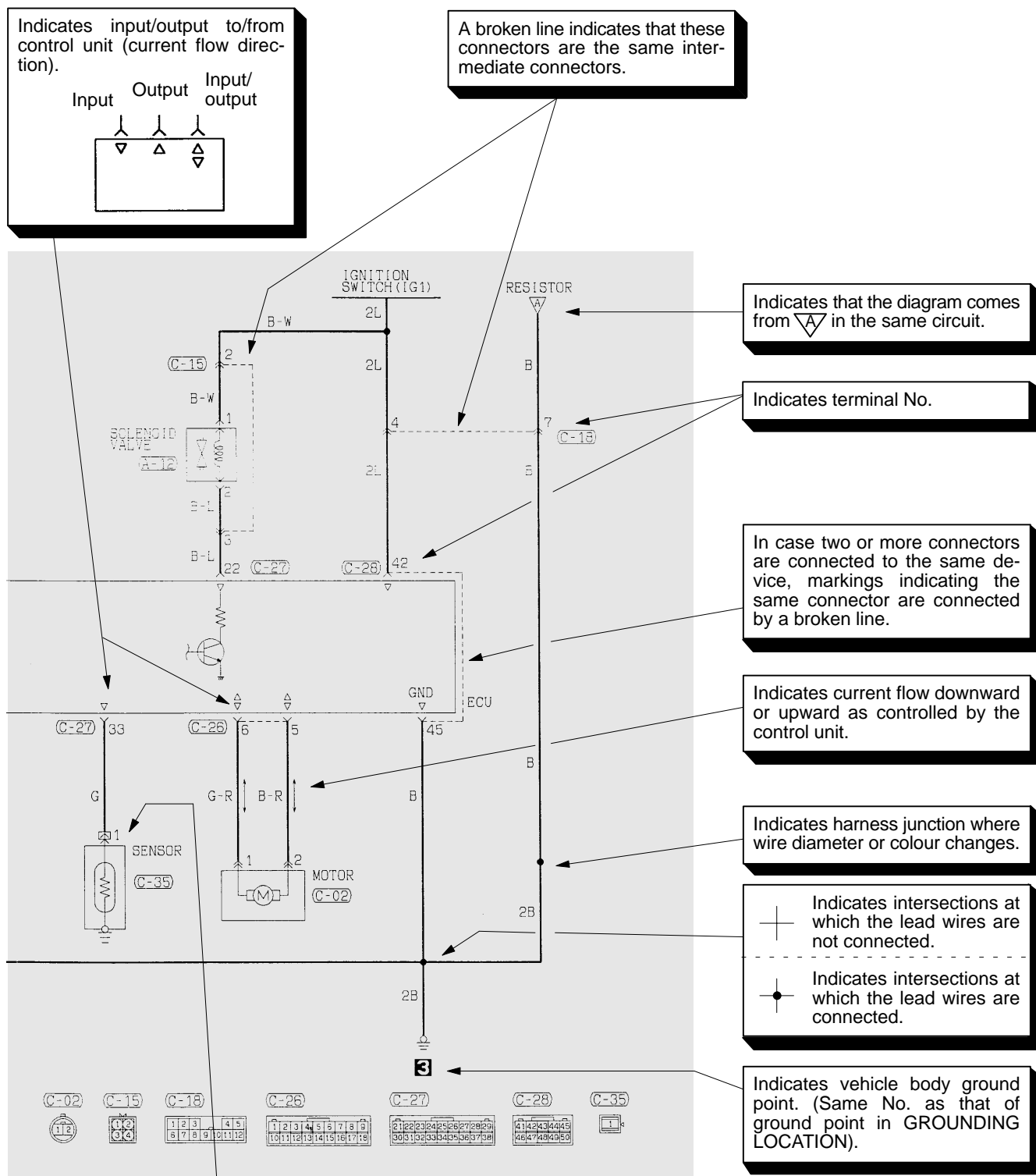
Indicates the device to which the connector is to be connected.



A-77 Valve relay <ABS>
A-57 Power steering oil pressure switch
A-58 Crank angle sensor
A-60 Connection of control harness and power steering harness
A-63 Knock sensor
A-67 Condenser
A-68 Throttle position sensor
A-70 Idle speed control servo

A-72 Air flow sensor
A-75 Checking connector (for adjusting ignition timing, checking fuel pump)
A-76 Hydraulic unit <ABS>
A-82 Distributor assembly
A-84 Connection of control harness and battery harness
A-85 Output shaft speed sensor
A-86 Input shaft speed sensor

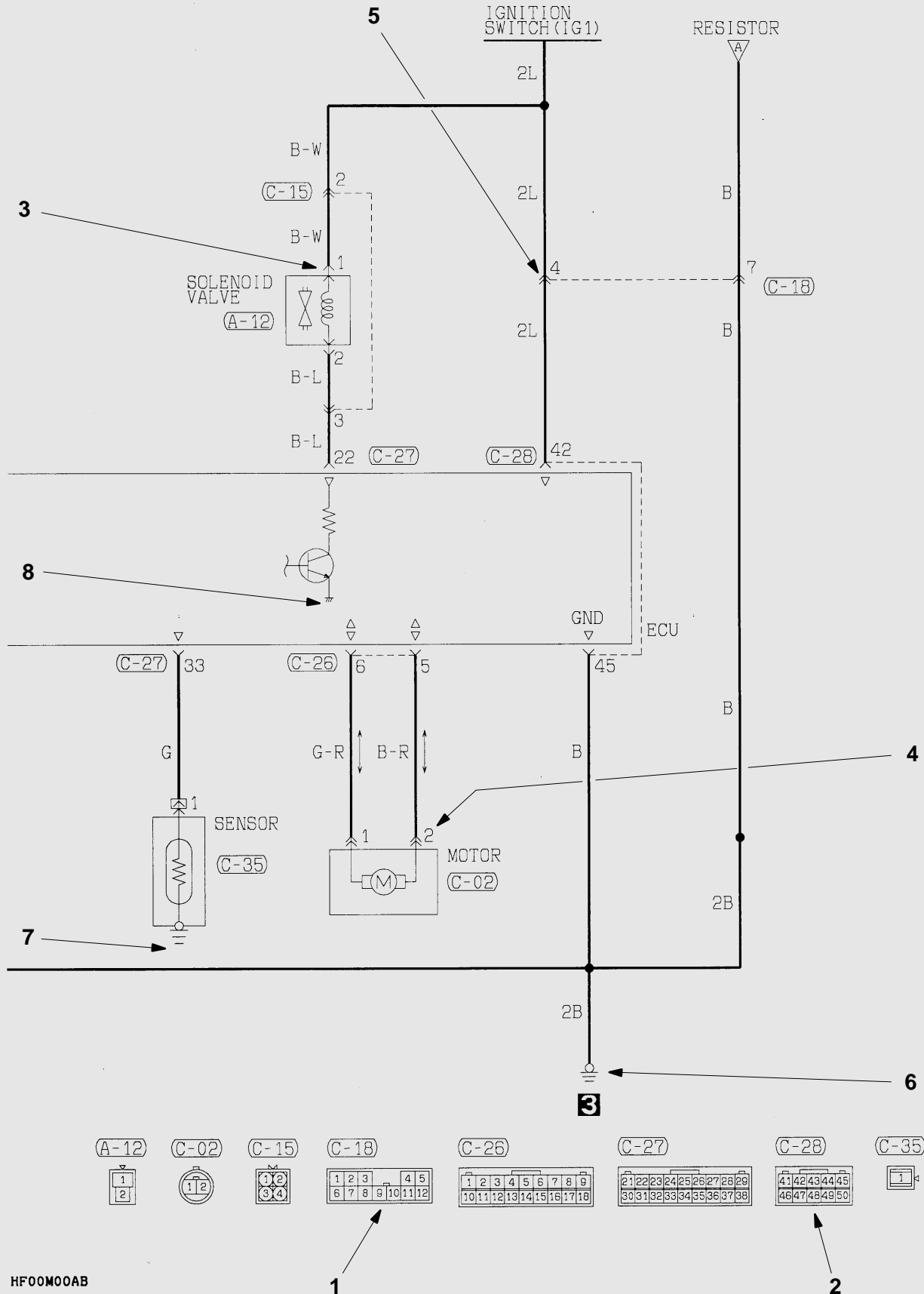




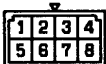

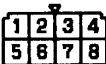

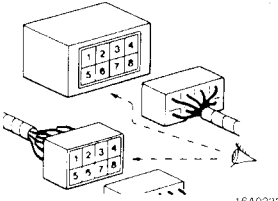
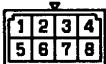

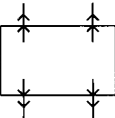
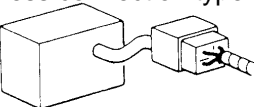
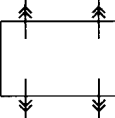


MARKINGS FOR CONNECTOR EARTHING

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54 CHASSIS ELECTRICAL <AWD> – Markings for Connector Earthing

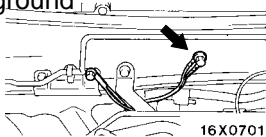

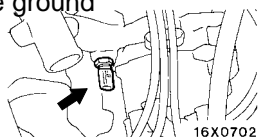



Item	NO	Connector/Earthing	Symbol	Contents
Connector marking	1	Male  WH-1	 WH-3	Double connector contour lines indicate male connector terminals and single contour lines indicates female terminals as illustrated here.
	–	Female  WH-2	 WH-4	
Connector symbol marking	2	Device  Intermediate connector 16A0333	 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	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	

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54 CHASSIS ELECTRICAL <AWD> – Markings for Connector Earthing

Item	NO	Connector/Earthing	Symbol	Contents
Ground markings	6	Body ground  16X0701	 WH-8	Ground is either by body ground, device ground or control unit interior ground. These are indicated as illustrated.
	7	Device ground  16X0702	 WH-9	
	8	Ground in control unit  16X0703	 WH-10	

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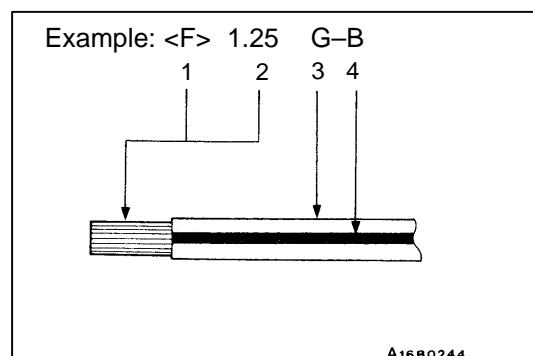
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WIRE COLOUR CODES

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 casing) 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 casing)
4	Marking colour

NOTE

*: No code indicates 0.5 mm².
Cable colour code in parentheses indicates 0.3 mm².

FUEL GAUGE CHECK

Disconnect the fuel gauge unit connector.
(Refer [Group 13F.](#))

Connect a test lamp (12V–3.4W) to the harness
side connector.

Test lamp lights up when the ignition switch is
ON.

NG

Harness to be repaired.

OK

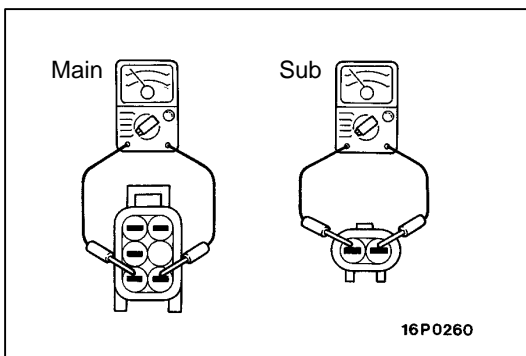
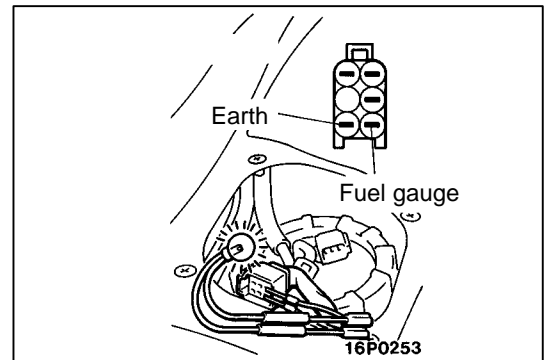
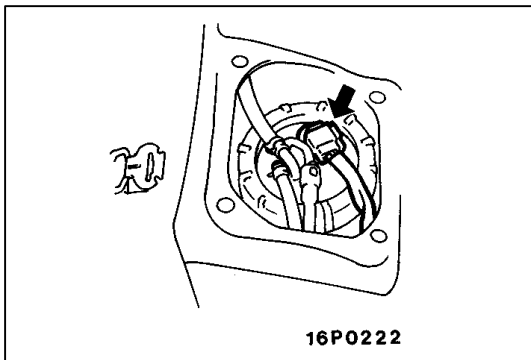
Pointer of fuel gauge
moves.

NG

Replace the fuel
gauge.

OK

Replace the fuel gauge
unit.

**INSPECTION**

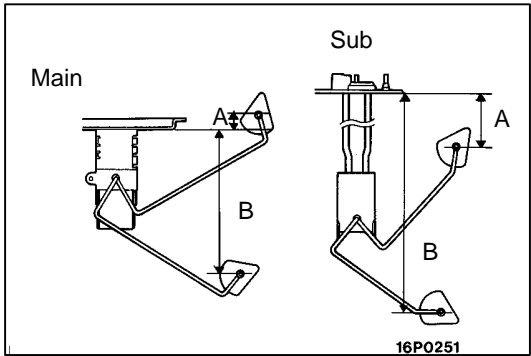
Remove fuel gauge unit from fuel tank. (Refer [Group 13F.](#))

FUEL GAUGE UNIT RESISTANCE

1. Check that resistance value between the fuel gauge terminal and earth terminal is at the standard value when fuel gauge unit float is at point F (highest) and point E (lowest).

	Main	Sub
F position	$2 \pm 1 \Omega$	$2 \pm 1 \Omega$
E position	$55 \pm 1 \Omega$	$32 \pm 1 \Omega$

2. Check that resistance value changes smoothly when float moves slowly between point F (highest) and point E (lowest).



FUEL GAUGE UNIT FLOAT HEIGHT

Move float and measure the height A at point F (highest) and B at point E (lowest) with float arm touching stopper.

	Main	Sub
A position	115 ± 3 mm	104.6 ± 3 mm
B position	126.1 ± 3 mm	244.9 ± 3 mm

NOTE:
The fuel gauge is a microcontroller driven analogue gauge. The memory must be cleared by dis-connecting the battery during and after each test.

NOTE:
If the fuel gauge reading displayed differs from the standard value, check all wiring and connections for the combination meter before replacing the meter assembly.

LOW FUEL WARNING LAMP

NOTE:
The low fuel warning lamp is operated by the internal microcontroller within the combination meter.