

SECTION 0

General Information

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VEHICLE IDENTIFICATION

Model code	Class code	2005 code	Grade	Engine model	Transmission model	Fuel supply system
GH-CT9A	SNDFZ	○	RS	4G63 (2000 DOHC 16-valve intercooler turbo)	W5M51 (4WD, 5M/T)	MPI
	SJDFZ	×	RS		W6MAA (4WD, 6M/T)	
	SNGFZ	●	GT	4G63 (2000 DOHC 16-valve MIVEC intercooler turbo)	W5M51 (4WD, 5M/T)	
	SJGFZ	○	GSR	4G63 (2000 DOHC 16-valve intercooler turbo)	W6MAA (4WD, 6M/T)	

Note : The [●] symbol indicates a new model; the [○] symbol indicates an existing model; and the [x] symbol indicates a discontinued model.

Implementation Code

GH-CT9A ; CT9A-0400001

How to Read the Wiring Diagrams

Composition and Contents of Wiring Diagrams

1. This manual contains wiring layout diagrams, individual part installation positions, circuit diagrams and an index.
2. All specifications, including those relating to optional equipment, are given in each section. Accordingly, some of the specifications may not apply to a particular vehicle.

Section	Main contents
Layout diagrams	Illustrations show the positions of the various connectors and the layout of the wiring harnesses in the actual vehicle.
Individual part installation positions	These diagrams show the installation positions and earth points for relays, ECUs, sensors, solenoids and solenoid valves, diodes, inspection connectors, spare connectors, fusible links, fuses, ground cables, and so on. Parts are listed alphabetically in the parts lists.
Circuit diagrams	<p>The circuit diagrams show the whole circuitry from power supply to earth, for each separate system. There are divided principally into power supply circuits and circuits classified by system.</p> <ul style="list-style-type: none"> • Junction block (J/B) The junction block shown in each circuit diagram only illustrates the part needed for that particular circuit. Therefore, this section shows the internal circuitry of the whole junction block. • Joint connector (J/C) The joint connectors shown in each circuit diagram only illustrate the parts needed for that particular circuit. Therefore this section shows the internal circuitry of all of the joint connectors, as well as the names of the circuit diagrams in which each of the respective terminals is used. • Power supply circuits Shows the power circuits from the battery to the fusible links, dedicated fuses, the ignition switch, general fuses, and so on. • Circuits classified by system Shows the circuitry for each system, from the fuse or fusible link to earth, excluding the power supply section described above.
Index	The index provides alphabetical lists of the Connector No. and Part Name, in order to locate the pages where all of the related connectors are shown in the layout diagrams and circuit diagrams.

Reading Layout Diagrams

The wiring layout diagrams give a clear and simple illustration of the connector positions and the routing of the wiring harnesses at different points in the actual vehicle.

Indicates connector number.
 The same connector number is used in the circuit diagrams, so that connector positions can be located easily.
 The initial letter indicates the installation position of the connector, and the number that follows is the unique number for that connector. In principle, the connectors are numbered in clockwise order in each layout diagrams, starting from the top left-hand side.
 Example : A - 19

Unique connector number (serial number)

Connector location code
 A: Engine compartment
 B: Engine / Transmission
 C: Instrument panel
 D: Floor / Roof
 E: Door
 F: Tail gate

Indicates earth point.
 The same earth numbers are used in the circuit diagrams, so earth points can be located easily.
 For details of earth points, refer to Section 2, "Individual Part Installation Positions - Earth".

Indicates name of harness

Shows section covered with corrugated tube.

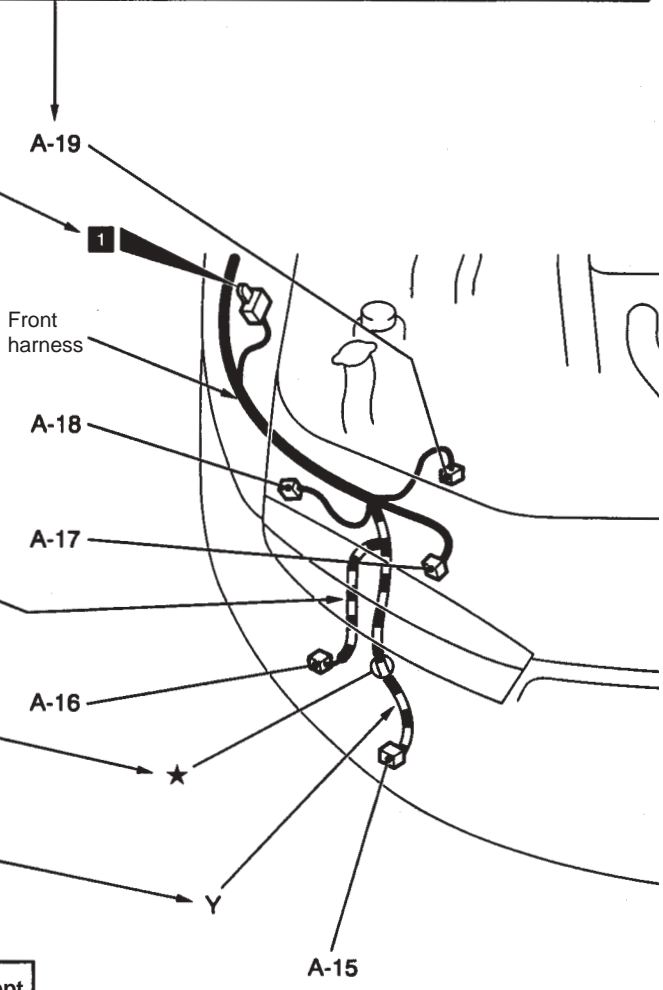
The * symbol shows a standard harness mounting point.

Indicates the external colour of the harness.
 (Black, unless specified otherwise.)
 R : Red
 Y : Yellow

The number of connector pins and the connector colour (except cream colour)* are indicated, so that they can be located easily.
 Example : 2 - Black

Colour of connector pins
 (Cream colour, unless specified otherwise)
 Number of connector pins

*A: Typical connector colours:
 Black, grey, red, blue, yellow, green, brown, etc.

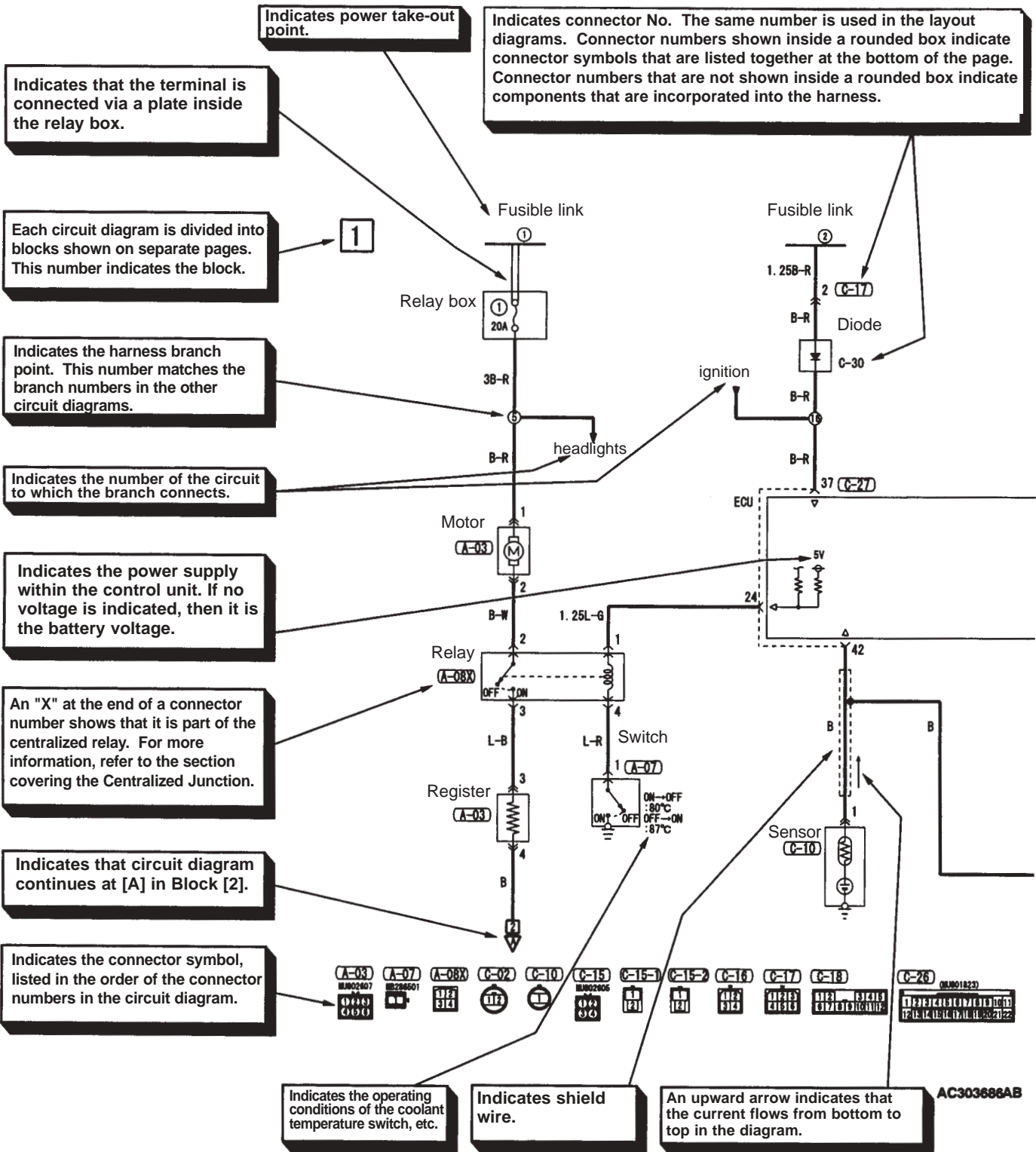


- A-15 (2) Fog lamp (RH)
- A-16 (2-Black) Windshield washer motor
- A-17 (2-Black) Headlamp (RH)
- A-18 (2-Brown) Horn (LO)
- A-19 (2-Green) Dual pressure switch

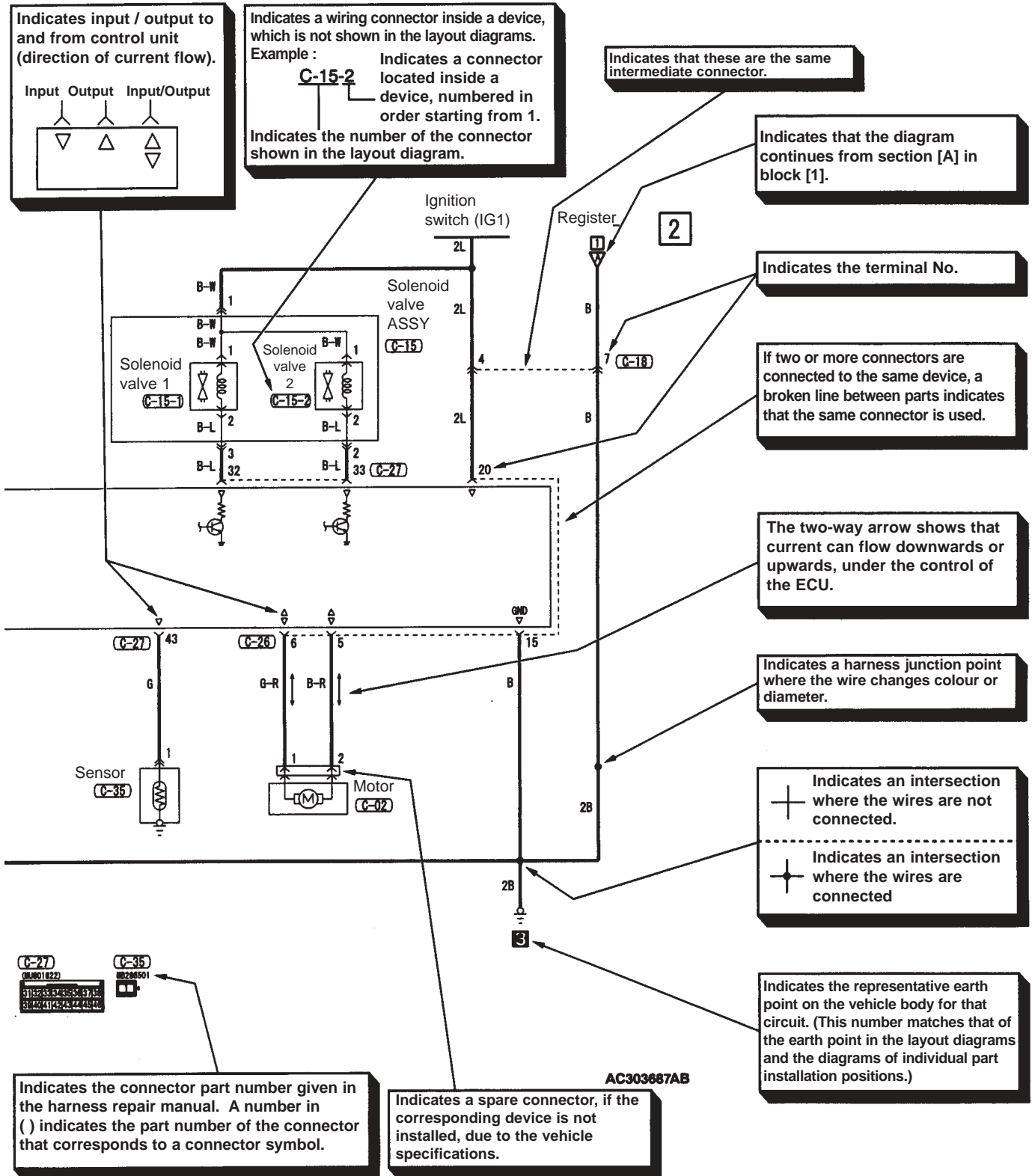
Indicates the device to which the connector is connected.

Reading Circuit Diagrams

These diagrams show the circuits for each system, from the fuse or fusible link to the earth. In principle, the power supply is shown at the top and the earth at the bottom, to make it easier to understand the flow of current in the circuit. The circuit diagrams show a state where none of the switches, etc. are operating.



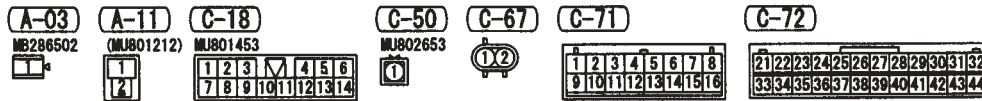
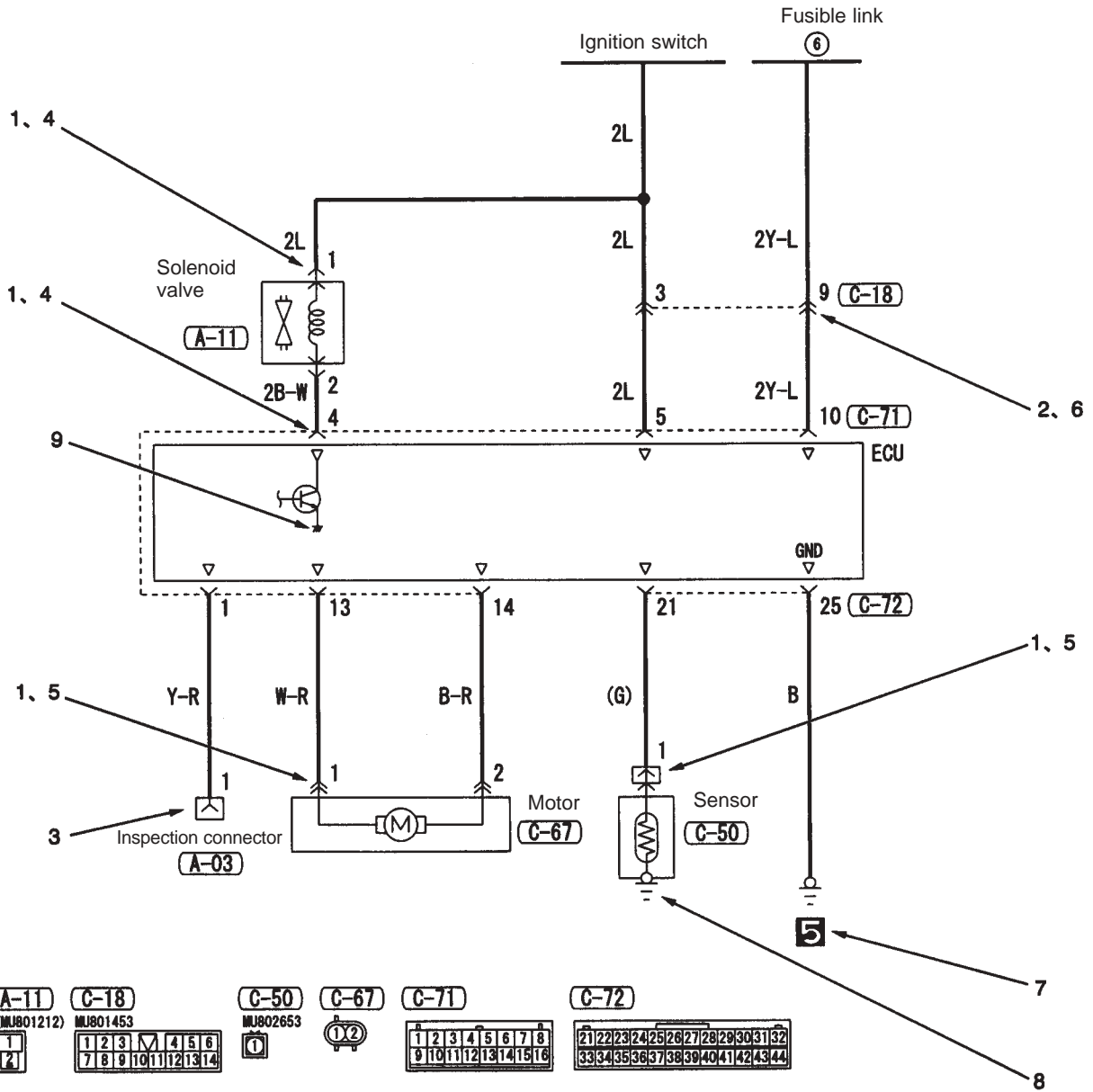
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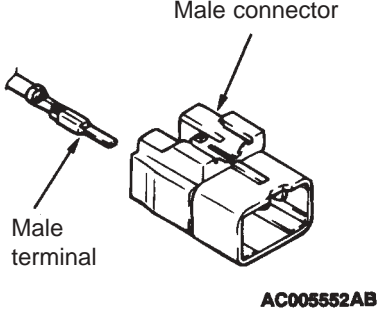

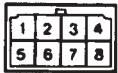
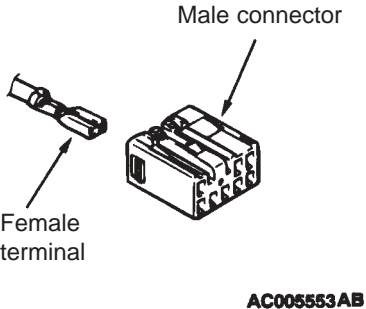


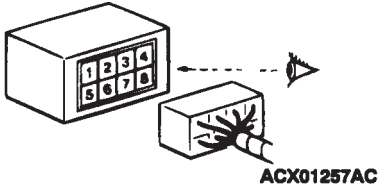
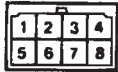
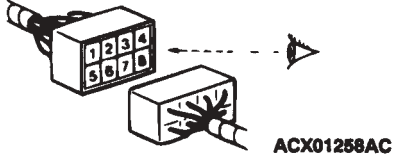
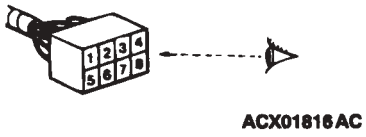
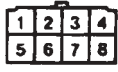



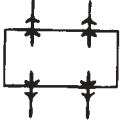

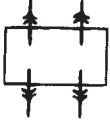








Connector / Earth Markings

The circuits contain a large number of connectors and earths, and the following system has been adopted for depicting connectors and earths in the circuit diagrams.

1



Item	No	Connector / Earth	Symbol	Details
Terminals and connectors	-		<p>Male terminal</p>  <p>AC005548AB</p>	<p>Different terminal symbols are used to indicate male terminals, which are inserted into another terminal, and female terminals, which receive other terminal. A connector containing male terminals is called a male connector, and a connector containing female connectors is called a female connector. The connector symbol for a male connector has a two-line outline, whereas the symbol for a female connector has a single-line outline, in order to distinguish them in the diagrams.</p>
			 <p>AC005549AB</p>	
			<p>Female terminal</p>  <p>AC005550AB</p>	
			 <p>AC005551AB</p>	
Connector symbols	1	<p>Device</p> 	 <p>AC005549</p>	<p>The symbol shows the connector used in the actual vehicle, as viewed from the direction of the illustration. At the connection with the device, the connector symbol on the device side, and the intermediate connector are shown by male connector symbols. Spare connectors and inspection connectors are not connected to the device, and therefore, these are represented by a harness side connector symbol. Note, however, that the above does not apply to diagnosis connectors.</p>
	2	<p>Intermediate connector</p> 		
	3	<p>Spare connector / Inspection connector</p> 	 <p>AC005551</p>	

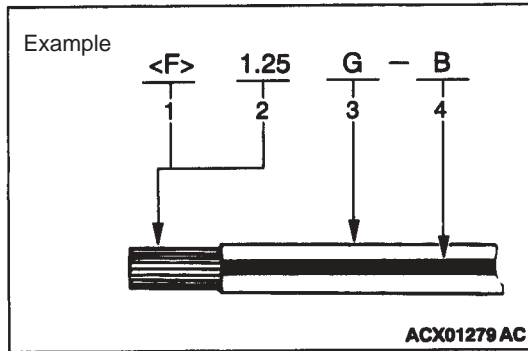
Item	No	Connector / Earth	Symbol	Details
Connector connections	4	Direct connection type  ACX01260AC	 ACX01261 AC	A connection between a device and a harness side connector may be achieved by direct insertion into the device (direct connection type) or by connecting to a harness connector on the device (harness connection type). These types of connection are shown differently in the diagrams.
	5	Harness connection type  ACX01262AC	 ACX01263 AC	
	6	Intermediate connector  ACX01264AC	 ACX01265AC	
Earths	7	Vehicle body earth  ACX01273AC	 ACX01274AC	The earth may be a vehicle body earth, a device earth, or an earth provided inside the control unit. They are depicted differently in the diagrams.
	8	Device earth  ACX01275AC	 ACX01276AC	
	9	Earth in control unit  ACX01277AC	 ACX01278AC	

Wire Colour Codes

M3000011000154

The different wire colours are indicated by the following letter codes.

Code	Wire colour	Code	Wire colour	Code	Wire colour	Code	Wire colour
B	Black	L	Blue	PU	Purple	V	Violet
BR	Brown	LG	Light green	R	Red	W	White
G	Green	O	Orange	SB	Sky blue	Y	Yellow
GR	Grey	P	Pink	SI	Silver	-	-



If a cable has two colours, the first colour code indicates the standard colour (the basic colour of the cable coating), and the second colour code indicates the marking colour.

No.	Meaning
1	<F> : Flexible wire <T> : Twisted wire
2	Wire size (mm ²) *
3	Basic colour
4	Marking colour

Note :

- * : No indication : 0.5 mm².
Cable colour in brackets indicates 0.3 mm².

Abbreviation Symbols

The abbreviation symbols used in the wiring diagrams have the following meanings.

1. Abbreviations of System Names

Abbreviation	Meaning	Abbreviation	Meaning
A/C	Air conditioning	AYC	Active Yaw Control
ABS	Antilock Brake System	ETACS	Electronic Timing and Alarm Control System
ACD	Active Centre Differential	SRS	Supplemental Restraint System

2. Abbreviations used in internal circuits of combination meter

Abbreviation	Meaning	Abbreviation	Meaning
ABS	ABS warning light	SEAT BELT	Seat belt warning lamp
BEAM	High beam indicator lamp	SPEED	Speedometer
BRAKE	Brake warning lamp	SRS	SRS airbag warning lamp
CHECK ENGINE	Engine warning lamp	T/GA	Coolant temperature gauge
CHG	Charge warning lamp	TACHO	Tachometer
DOOR	Door ajar indicator lamp	TAIL	Tail, position, licence plate indicator lamp
F/GA	Fuel gauge	TARMAC	Active centre differential mode indicator lamps
FOG	Fog lamp indicator lamp	GRAVEL	
FUEL	Remaining fuel warning lamp	SNOW	
LCD	Liquid crystal display	TURN (LH)	Turn signal indicator lamp, hazard indicator lamp
OIL	Oil pressure warning lamp	TURN (RH)	
		WATER SPRAY	Intercooler water spray indicator gauge

3. Abbreviations used in switch and relay circuits

Name of switch or relay	Abbreviation	Operation
Ignition switch	LOCK	Ignition key in LOCK position, all power circuits off.
	ACC	Power circuit completed when ignition key is in ACC (accessory) or IG (ignition) positions, but power circuit turned off when ignition key is in ST (start) position.
	IG2	Power circuit completed when ignition key is in IG position, but power circuit turned off when key is in ST (Start position)
	IG1	Power circuit completed when ignition key is in IG position, but power circuit turned off when key is in ST (start) position
	ST	Power circuit completed only when ignition key is in ST (start) position
Intercooler water spray switch	MANUAL	Water sprayed while switch pressed
	AUTO	Water sprayed automatically, depending on operating conditions
Windscreen wiper switch	MIST	Windscreen wiper operates once.
	INT	Windscreen wiper operates intermittently.
	LO	Windscreen wiper operates continuously at low speed.
	HI	Windscreen wiper operates continuously at high speed.
Variable intermittent wiper control switch	SLOW	Increases length of intermittent operation of windscreen wiper
	FAST	Reduces length of intermittent operation of windscreen wiper
Sunroof switch	OPEN	Sunroof opens
	UP	Sunroof tilts up
	CLOSE / DOWN	Sunroof tilts down and closes
Switch and relay	OFF	Switch off
	ON	Switch on
Turn signal lamp switch	LH	Left-hand side turn signal lamp flashes
	RH	Right-hand side turn signal lamp flashes

Door block actuator	LOCK	Doors lock
	UNLOCK	Doors unlock
Power window switch	UP	Window closes
	DOWN	Window opens
	AUTO UP	Window closes completely
	AUTO DOWN	Window opens completely
	LOCK	Locks opening and closing of window by any switch other than main switch
	UNLOCK	Allows all switches to open and close their respective windows
Blower switch	LO	Blower operates at low speed
	ML	Blower operates at medium-low speed
	MH	Blower operates at medium-high speed
	HI	Blower operates at high speed
Headlamp levelling switch	1	Optical axis of low beam lowered by one stage
	2	Optical axis of low beam lowered by two stages
	3	Optical axis of low beam lowered by three stages
	4	Optical axis of low beam lowered by four stages
Lighting switch	TAIL	Lights up tail lamps, position lamps, licence plate lamp and other illumination lamps
	HEAD	Headlights switch on
Remote control mirror switch	LH	Allows adjustment of angle of left-side door mirror
	RH	Allows adjustment of angle of right-side door mirror
Rear wiper / washer switch	INT	Rear wiper operates intermittently
	WASH	Rear wiper operates in synch with washer spray
Cabin light switch	DOOR	Cabin lights come on when a door is opened.

4. Other abbreviations

Abbreviation	Meaning	Abbreviation	Meaning
4WD	Four wheel drive	J/B	Junction block
ASSY	Assembly	J/C	Joint connector
CPU	Central Processing Unit	LH	Left-hand side
ECU	Electronic Control Unit	LO	Headlamp low beam, horn low level, or windscreen wiper low-speed
GND	Earth (Ground)	MUT	Multiuse tester
HI	Headlamp high beam, horn high level, or windscreen wiper high-speed	O ₂	Oxygen
IC	Integrated circuit	RH	Right-hand side
ILL	Illumination lamp		
IND	Indicator lamp		

<Notes>