

MITSUBISHI 3000GT

WORKSHOP MANUAL ELECTRICAL WIRING

FILING INSTRUCTION

Please keep these manual pages in the binder which is keeping the manual PHUE9201.

File these pages according to the signs "ADDED" and "REVISED" on the "List of effective pages" which are interpreted below.

ADDED: File the pages with this sign additionally in your manual.

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1 LIST OF EFFECTIVE PAGES

Group/ Page	Revision code	Date	Remarks
LIST OF EFFECTIVE PAGES			
1	C	Jul. 1994	REVISED
2	C	Jul. 1994	ADDED
<1993 models>			
Foreword		May. 1992	
1-HOW TO READ THE WIRING DIAGRAMS			
1	A	Aug. 1993	
2 thru 3		May. 1992	
4 thru 5	A	Aug. 1993	
6 thru 8		May. 1992	
9 thru 10	A	Aug. 1993	
11		May. 1992	
2-WIRING HARNESS CONFIGURATION DIAGRAMS			
1 thru 22		May. 1992	
3-SINGLE PART INSTALLATION POSITION			
1 thru 19		May. 1992	
4-CIRCUIT DIAGRAM			
1 thru 211		May. 1992	
WIRING DIAGRAM <L.H. drive vehicles>			
1 thru 4		May. 1992	
WIRING DIAGRAM <R.H. drive vehicles>			
5 thru 8		May. 1992	
<1994 models>			
Foreword	B	Dec. 1993	
1A-HOW TO READ THE WIRING DIAGRAMS			
1 thru 2	A	Aug. 1993	
2A-WIRING HARNESS CONFIGURATION DIAGRAMS			
1 thru 3	A	Aug. 1993	
4 thru 7	B	Dec. 1993	
8 thru 10	A	Aug. 1993	
11 thru 13	B	Dec. 1993	
14	A	Aug. 1993	
15	B	Dec. 1993	
16	A	Aug. 1993	
17	B	Dec. 1993	
18 thru 22	A	Aug. 1993	

Group/ Page	Revision code	Date	Remarks
3A-SINGLE PART INSTALLATION POSITION			
1	A	Aug. 1993	
2	B	Dec. 1993	
3 thru 19	A	Aug. 1993	
4A-CIRCUIT DIAGRAM			
1 thru 2	B	Dec. 1993	
3 thru 6	A	Aug. 1993	
7	B	Dec. 1993	
8 thru 9	A	Aug. 1993	
10	B	Dec. 1993	
11	A	Aug. 1993	
12	B	Dec. 1993	
13 thru 16	A	Aug. 1993	
17	B	Dec. 1993	
18 thru 157	A	Aug. 1993	
158	B	Dec. 1993	
159 thru 160	A	Aug. 1993	
160-1 thru 160-4	B	Dec. 1993	
161	B	Dec. 1993	
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189	A	Aug. 1993	
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WIRING DIAGRAM <L.H. drive vehicles>			
1 thru 4	A	Aug. 1993	
WIRING DIAGRAM <R.H. drive vehicles>			
5 thru 8	A	Aug. 1993	

Group/ Page	Revision code	Date	Remarks
<1995 models>			
Foreword	C	Jul. 1994	ADDED
1B-HOW TO READ THE WIRING DIAGRAMS			
1 thrn 2	C	Jul. 1994	ADDED
2B-WIRING HARNESS CONFIGURATION DIAGRAMS			
1 thrn 22	C	Jul. 1994	ADDED
3B-SINGLE PART INSTALLATION POSITION			
1 thrn 18	C	Jul. 1994	ADDED
4B-CIRCUIT DIAGRAM			
1 thrn 193	C	Jul. 1994	ADDED
INDEX			
1 thrn 16	C	Jul. 1994	ADDED

RJCR410022-260
RJCR312028-54
RJCR308028-270
RJCR205038-270
ADDED



MITSUBISHI 3000GT'95

WORKSHOP MANUAL ELECTRICAL WIRING

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MITSUBISHI 3000GT

ELECTRICAL WIRING

FOREWORD

This Electrical Wiring Manual contains information necessary for inspection and servicing of electrical wiring in the Mitsubishi 3000GT edited in the form of wiring harness configuration diagrams and function-separated circuit diagrams.

It is recommended that all service mechanics engaged in the servicing of the vehicle refer to the following publications as well as this manual.

TECHNICAL INFORMATION MANUAL
PYUE9201

WORKSHOP MANUAL
Chassis Group PWUE9119
(Loose-leaf edition)
Engine Group PWEE□□□□
(Loose-leaf edition)

PARTS CATALOGUE B608K405A□

All information, illustrations and product descriptions contained in this manual are current as of time of publication. We, however, reserve the right to make changes at any time without prior notice or obligation.



GROUP INDEX

HOW TO READ THE WIRING DIAGRAMS	1B
WIRING HARNESS CONFIGURATION DIAGRAMS	2B
SINGLE PART INSTALLATION POSITION	3B
CIRCUIT DIAGRAM	4B
INDEX	

HOW TO USE THIS MANUAL

CONTENTS

The preceding page contains GROUP INDEX which lists the group title and group number.

PAGE NUMBERS

All page numbers consist of two sets of digits separated by a dash. The digits preceding the dash identify the number of the group. The digits following the dash represent the consecutive page number within the group. The page numbers can be found on the top left or right of each page.

OPERATION AND TROUBLESHOOTING HINTS

In the GROUP 4A circuit diagrams, the operation and troubleshooting hints are given on the previous page or following page for each circuit where necessary.

1 HOW TO READ THE WIRING DIAGRAMS

MODELS	1-2
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MODELS

Model code	Engine model	Transmission model
Z16AMNGFL6	6G72-DOHC-TURBOCHARGER	W5MG1 (5M/T)
Z16AMNGFR6	6G72-DOHC-TURBOCHARGER	W5MG1 (5M/T)

COMPOSITION AND CONTENTS OF WIRING DIAGRAMS

- (1) This manual consists of wiring harness diagrams, installation locations of individual parts, circuit diagrams and wiring diagram.
- (2) In each of the sections, 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 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	<p>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.</p> <ul style="list-style-type: none"> • 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

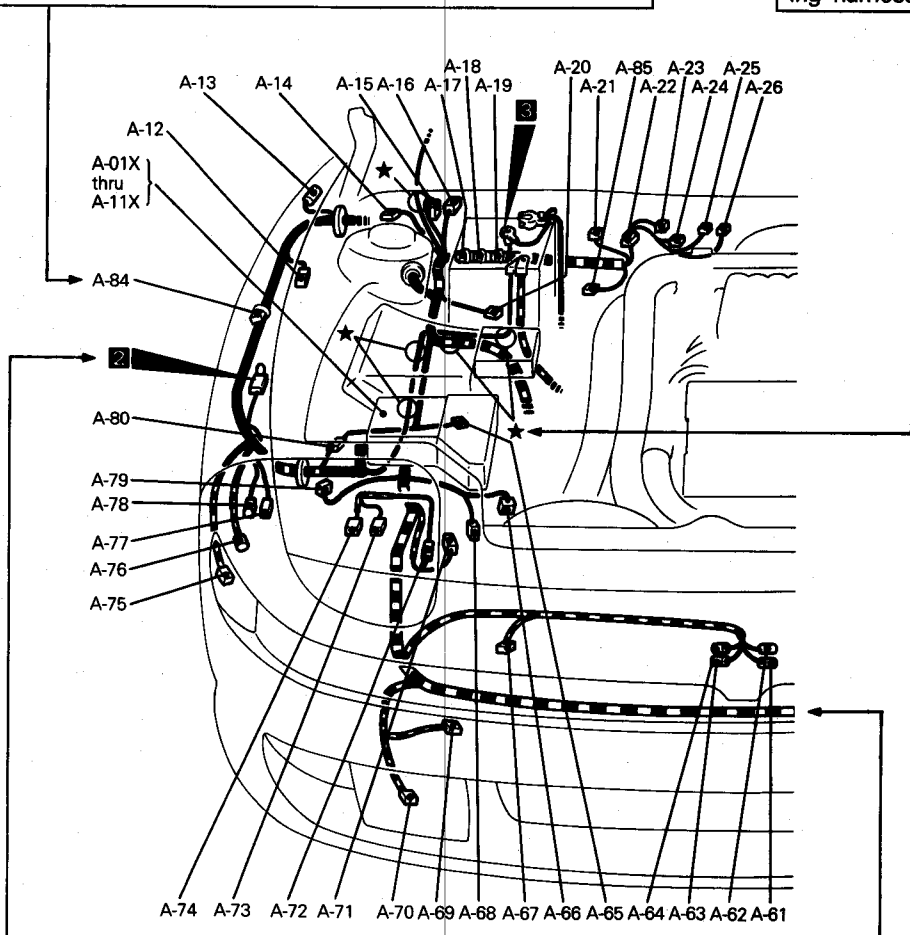
The wiring harness diagrams clearly show the connector locations and harness routings at each site in actual vehicles.

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 colours are shown for easy identification.

Example: A-12 (black)

- Connector colour
- Number specific to connector (serial number)
- Connector location site symbol
- A: Engine room
- B: Engine and transmission
- C: Dash panel
- D: Instrument panel and floor console
- E: Interior
- F: Luggage compartment

The mark ★ shows the standard mounting position of wiring harness.



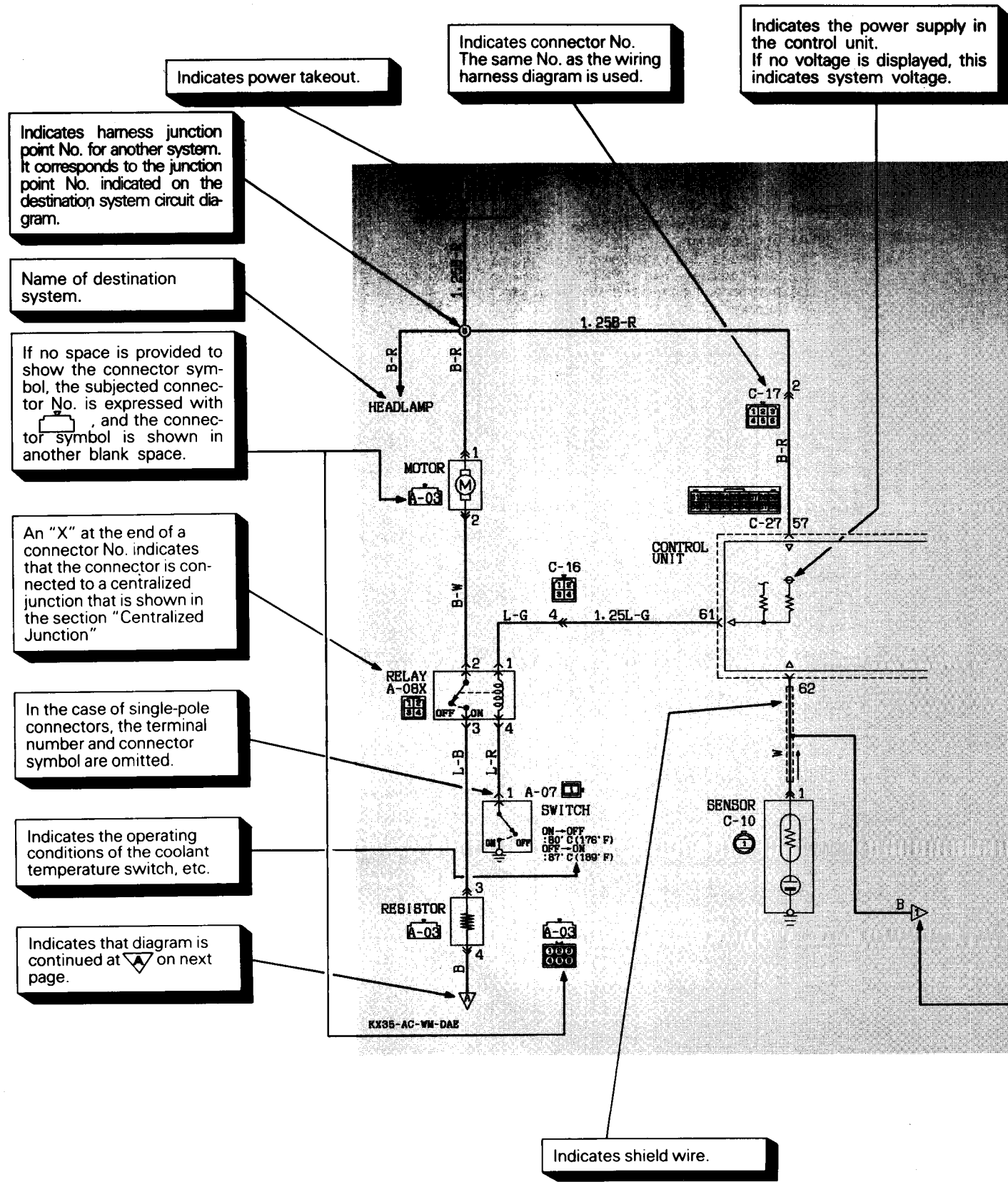
Denotes earth point.
 Same earth number is used throughout circuit diagrams to facilitate search of earth point. Refer to GROUP 3 SINGLE PART INSTALLATION POSITION-EARTH MOUNTING LOCATIONS for details of earth points.

Denotes a section covered by a corrugated tube.

1-4 HOW TO READ THE WIRING DIAGRAMS — How to Read Circuit Diagrams

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 power takeout.

Indicates connector No. The same No. as the wiring harness diagram is used.

Indicates the power supply in the control unit. If no voltage is displayed, this indicates system voltage.

Indicates harness junction point No. for another system. It corresponds to the junction point No. indicated on the destination system circuit diagram.

Name of destination system.

If no space is provided to show the connector symbol, the subjected connector No. is expressed with [] and the connector symbol is shown in another blank space.

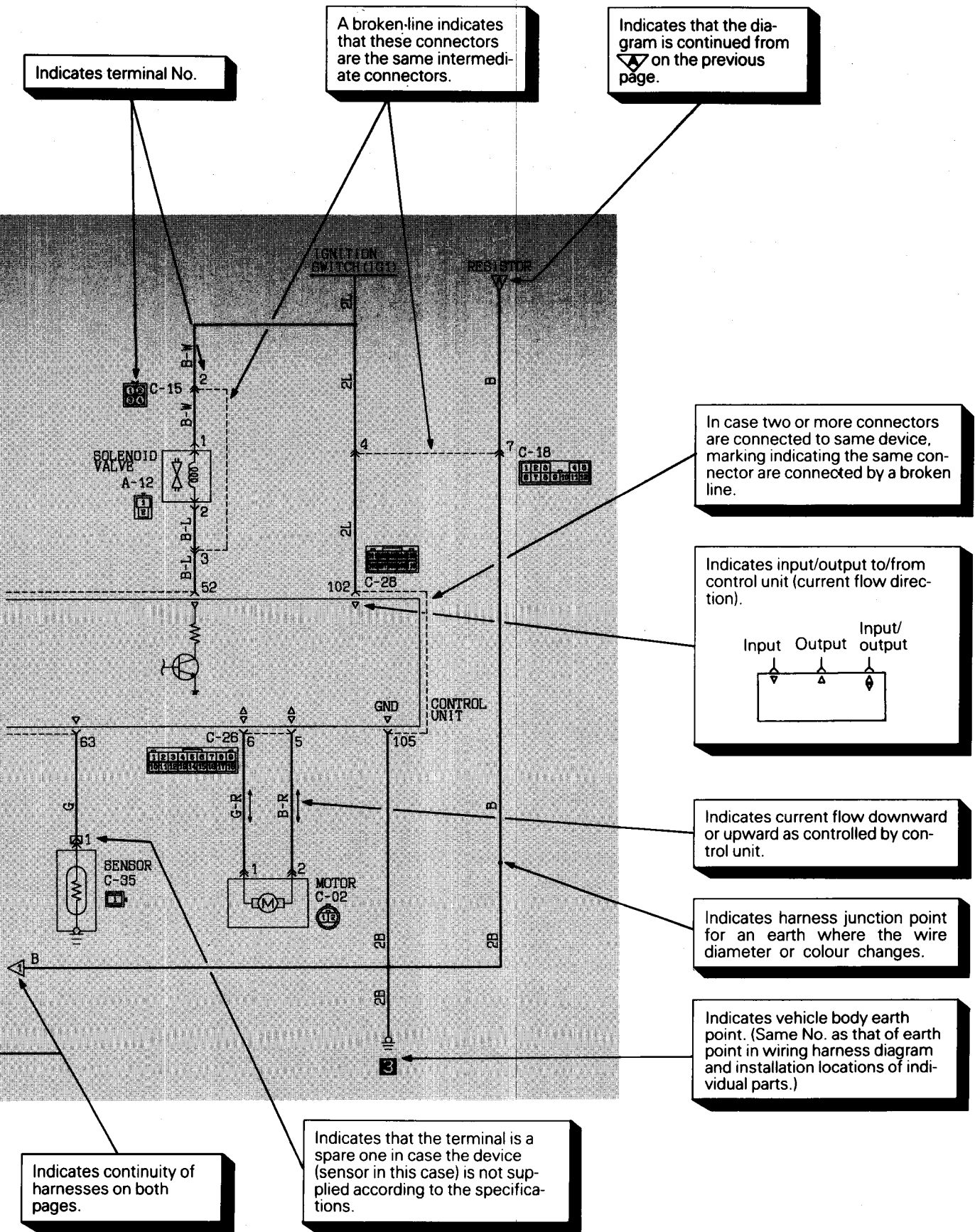
An "X" at the end of a connector No. indicates that the connector is connected to a centralized junction that is shown in the section "Centralized Junction"

In the case of single-pole connectors, the terminal number and connector symbol are omitted.

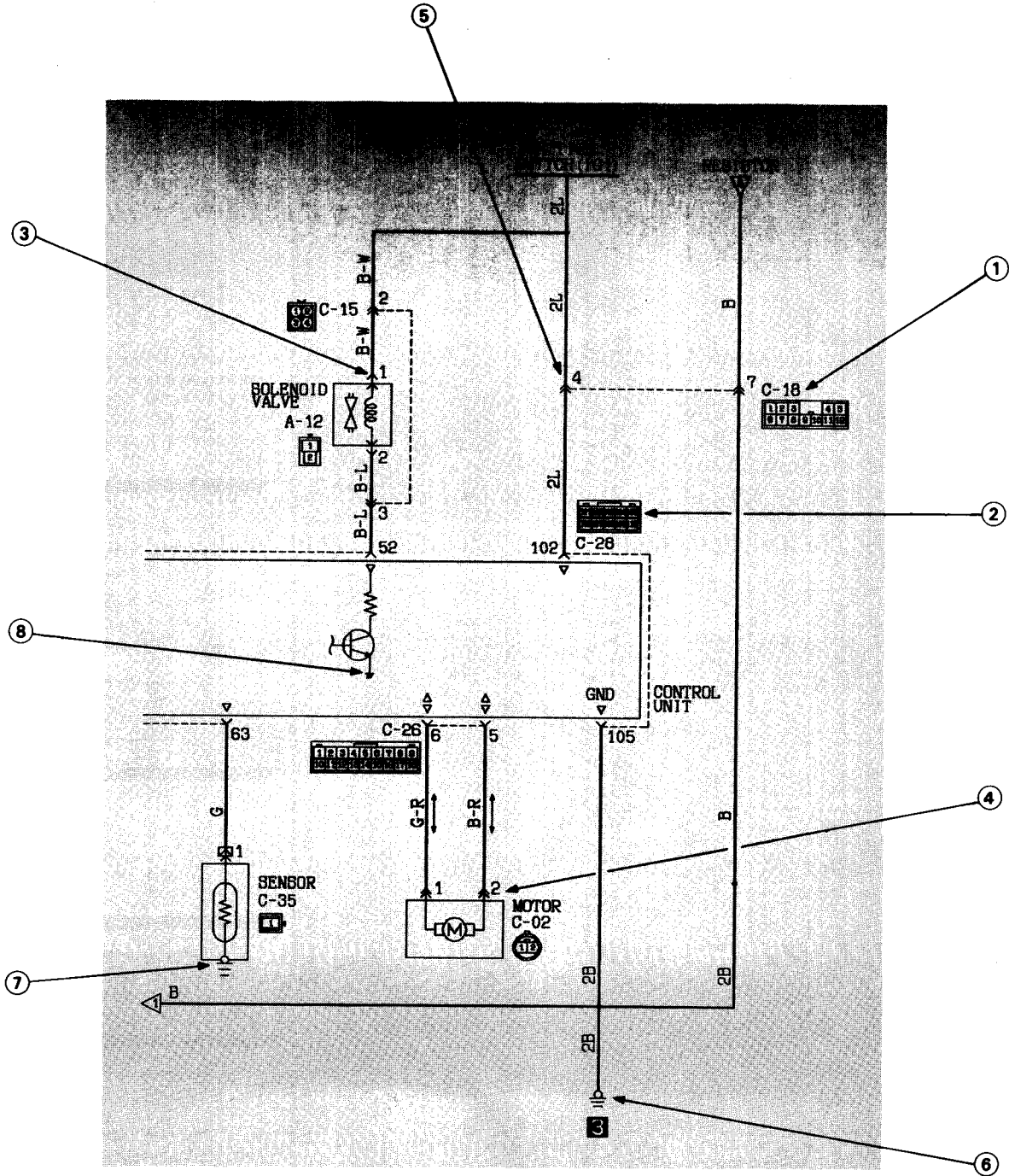
Indicates the operating conditions of the coolant temperature switch, etc.

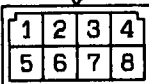



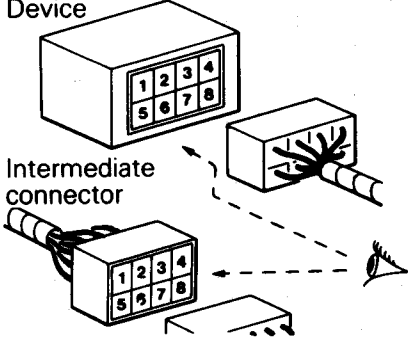
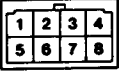
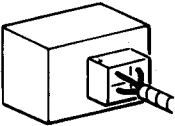
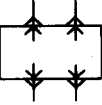
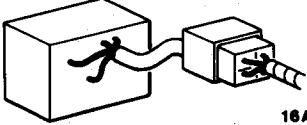
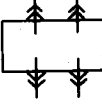
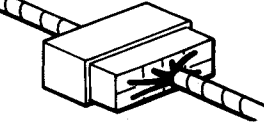

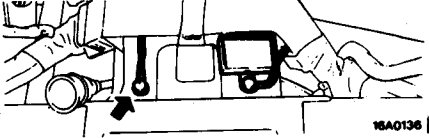

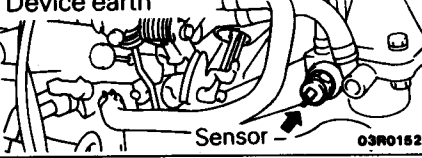

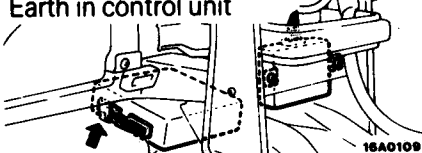

Indicates that diagram is continued at ▽ on next page.

Indicates shield wire.



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  16A0333		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  16A0334		
	⑤ Intermediate connector  16A0339		
Earth markings	⑥ Body earth  16A0136		Earth is either by body earth, device earth or control unit interior earth. These are indicated as illustrated.
	⑦ Device earth  Sensor 03R0152		
	⑧ Earth in control unit  16A0109		

1-8 HOW TO READ THE WIRING DIAGRAMS — Symbolic Marks/Wire Colour Codes

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

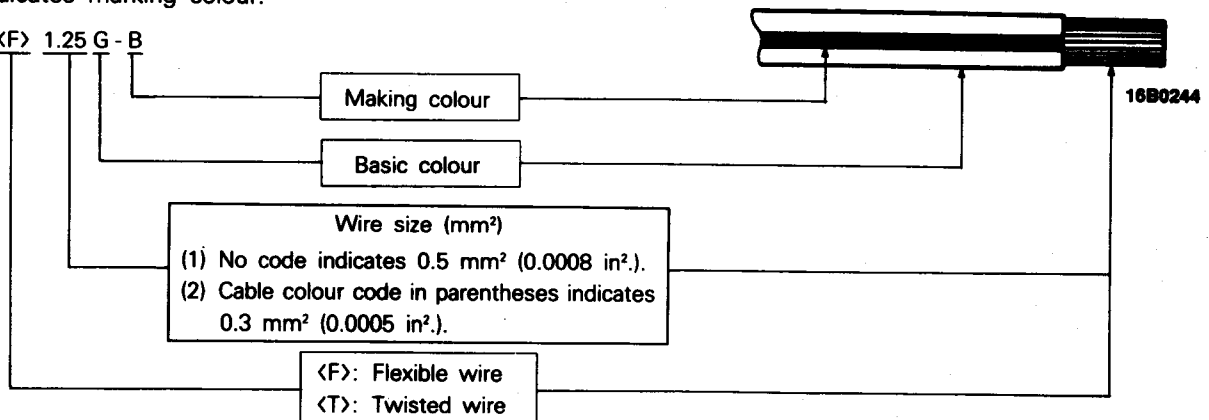
Wire colours are identified by the following colour codes.

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	White
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.

Example: <F> 1.25 G - B



ABBREVIATION SYMBOLS

The abbreviation symbols used in wiring diagrams are defined below.

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
4WS	4 wheel steering system	GND	Earth
ABS	Anti-lock brake system	ILL	Illumination lamp
DRL	Daytime running lamp	IND	Indicator lamp
ECS	Electronic control suspension	J/B	Junction block
ETACS	Electronic time and alarm control system	SRS	Supplemental restraint system

Abbreviation symbols used for combination meters

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
4WS	4WS warning lamp	O/GA	Oil pressure gauge
ABS	Anti-lock brake system warning lamp	OIL	Oil pressure warning lamp
AERO	Active aero system warning lamp	OIL LEVEL	Low engine oil warning lamp
ASC ON	Cruise control ON indicator lamp	REAR FOG	Rear fog lamp indicator lamp
BEAM	Upper beam indicator lamp	SECURITY	Security indicator lamp
BOOST	Boost meter	SPEED	Speedometer
BRAKE	Brake warning lamp	SPORT	Sport mode indicator lamp
CHECK ENGINE	Check engine warning lamp	SRS	Supplemental restraint system warning lamp
CHG	Charging warning lamp	TACHO	Tachometer
CRUISE	Cruise control indicator lamp	T/GA	Engine coolant temperature gauge
DOOR	Door-ajar warning lamp	TOUR	Tour mode indicator lamp
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.)
HAZARD	Hazard warning indicator lamp	WASHER	Low washer fluid warning 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	Room lamp switch	DOOR	Room lamp ON when a door is open
	HI	High beams ON	Turn signal switch	LH	L.H. turn signal lamps ON
Lighting switch	TAIL	Position, tail, licence plate and instrument panel lamps ON		RH	R.H. turn signal lamps ON
	HEAD	Headlamps ON	Power window switch	UP	Window closed
Headlamp pop up switch	UP	Headlamps extended		DOWN	Window opened
	DOWN	Headlamps retracted	Door lock actuator/Door lock power relay	LOCK	Door locked
		UN-LOCK		Door unlocked	

Name of switches and relays	Abbreviation symbol	Operation	Name of switches and relays	Abbreviation symbol	Operation
Wiper switch	LO	Wipers operate at low speed	Power seat switch	SLIDE FR	Seat is moved forward.
	HI	Wipers operate at high speed		SLIDE RR	Seat is moved backward.
	INT	Wipers operate intermittently		FRONT HEIGHT UP	Front part of seat cushion is tilted up.
Remote controlled mirror switch	LH	L.H. mirror operates		FRONT HEIGHT DOWN	Front part of seat cushion is tilted down.
	RH	R.H. mirror operates		REAR HEIGHT UP	Rear part of seat cushion is tilted up.
Power seat switch	LUMBER SUPPORT PUSH	Seat back is stood upright.		REAR HEIGHT DOWN	Rear part of seat cushion is tilted down.
	LUMBER SUPPORT RELEASE	Seat back is leaned backward.		ON	Switched on
	SIDE SUPPORT CLOSE	Side support of seat back is closed.		OFF	Switched off
	SIDE SUPPORT SPREAD	Side support of seat back is spread.		Others	

APPLICABLE MODEL CATEGORIES

The applicable model categories are indicated below for easy identification.

Division	Contents
MPI	Indicates vehicles with multi-point injection
LHD	Indicates L.H. drive vehicles
RHD	Indicates R.H. drive vehicles

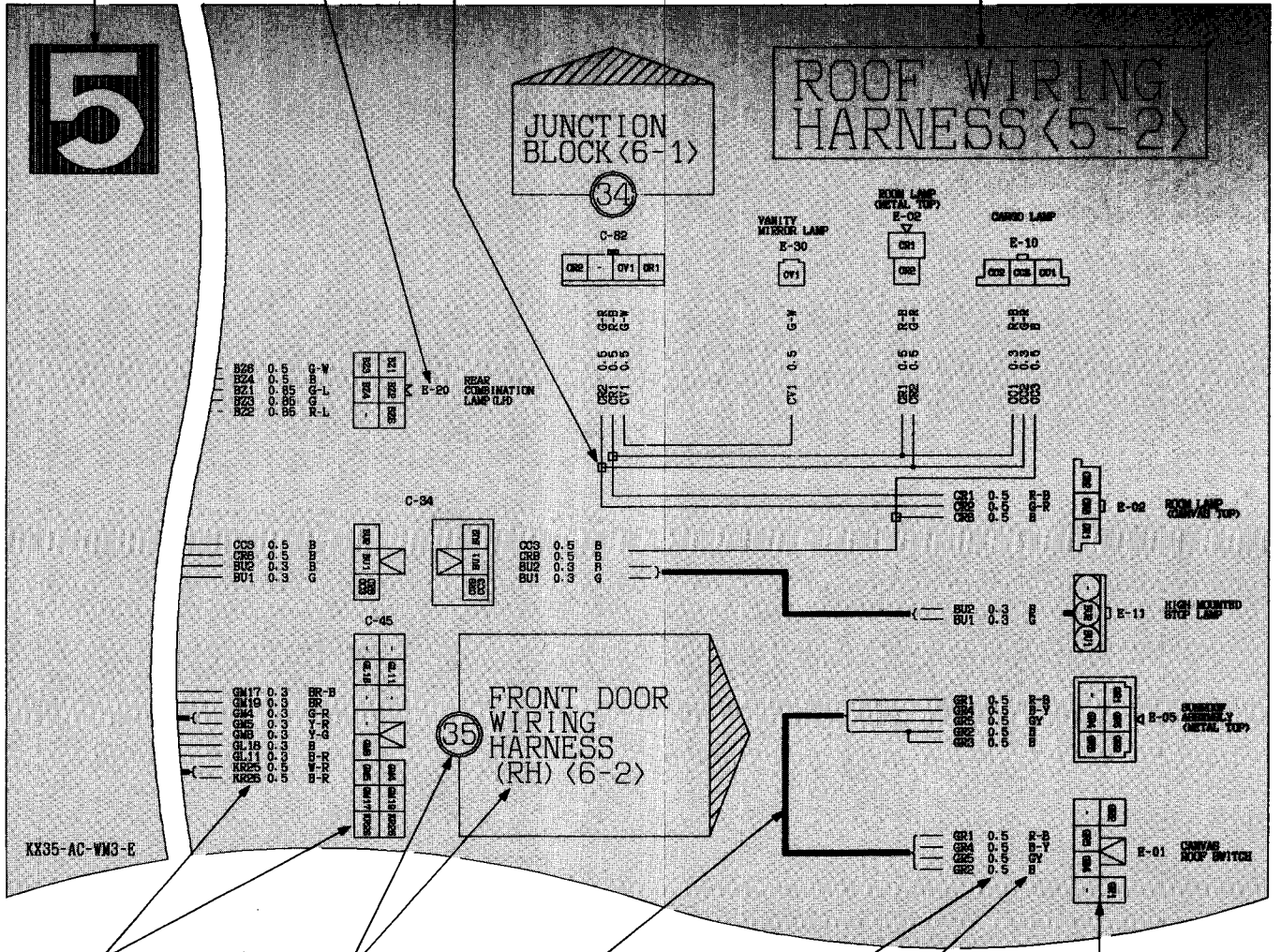
HOW TO READ WIRING DIAGRAM

Indicates the connector No.
The same No. as the wiring diagram
and circuit diagram is used.

Indicates the
harness entry
location number.

Junction points indicated by
a square (□) indicate circuits
with differences in
specifications.

Indicates the harness name and harness
entry location.
(In this case, this indicates that the harness
is the roof harness, and that it is entered in
the harness entry location number of 5.)
Example: <5-2>
└─ Classification number
└─ Harness entry location
number



Indicates the name of
the harness to connect
to and the number of
the relevant connector.

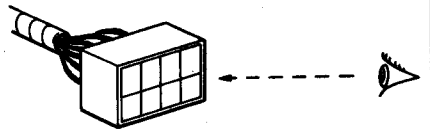
Wires with the same destination
are indicated with a
single thick line.

Indicates the connector terminal
No.
Identical symbols are
entered to indicate which harness
corresponds to which
connector terminal.

Indicates
size of wire
(mm²)

Indicates
wire colour
code.

The connector symbol shows the harness-side
connector as seen from
front-on (from the direction shown in
the illustration).



NOTES

1B HOW TO READ THE WIRING DIAGRAMS

MODELS	1B-2
COMPOSITION AND CONTENTS OF WIRING DIAGRAMS	1B-2
HOW TO READ CONFIGURATION DIAGRAMS	} Refer to '93 models' Electrical wiring
HOW TO READ CIRCUIT DIAGRAMS	
MARKINGS FOR CONNECTOR EARTHING	
WIRE COLOUR CODES	
ABBREVIATION SYMBOLS	

MODELS

Model code		Engine model	Transmission model	Fuel supply system
Z16A	MNGFL6	6G72 (3000-DOHC-24V-twin turbocharger)	W5MG1 (4WD-5M/T)	MPI
	MNGFR6			
	MJGFL6		W6MG1 (4WD-6M/T)	
	MJGFR6			

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 of the sections, 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 earth points of relays, control units, sensors, solenoids, solenoid valves, diodes, inspection connectors, spare connectors, fusible links, fuses, etc. In the parts lists, parts are listed in alphabetical order.
Circuit diagrams	<p>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.</p> <ul style="list-style-type: none"> • 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 shown in each circuit diagram.
Index	All components used are listed by connector number and component name.

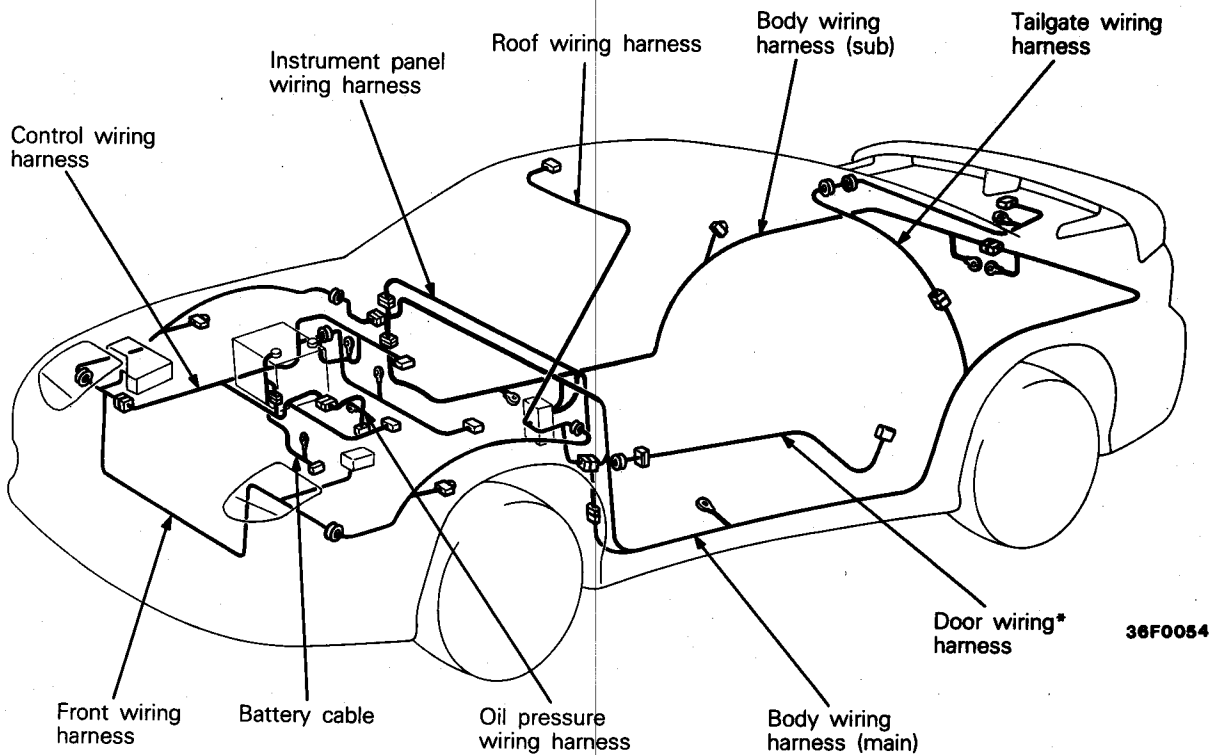
2 WIRING HARNESS CONFIGURATION DIAGRAMS

1 OVERALL WIRING DIAGRAM	
1-1 L.H. drive vehicles	2-3
1-2 R.H. drive vehicles	2-3
2 ENGINE COMPARTMENT A	
2-1 L.H. drive vehicles	2-4
2-2 R.H. drive vehicles	2-6
3 ENGINE AND TRANSMISSION B	2-8
4 DASH PANEL C	
4-1 L.H. drive vehicles	2-10
4-2 R.H. drive vehicles	2-12
5 INSTRUMENT PANEL AND FLOOR CONSOLE D	
5-1 L.H. drive vehicles	2-14
5-2 R.H. drive vehicles	2-16
6 INTERIOR E	
6-1 L.H. drive vehicles	2-18
6-2 R.H. drive vehicles	2-20
7 LUGGAGE COMPARTMENT F	2-22

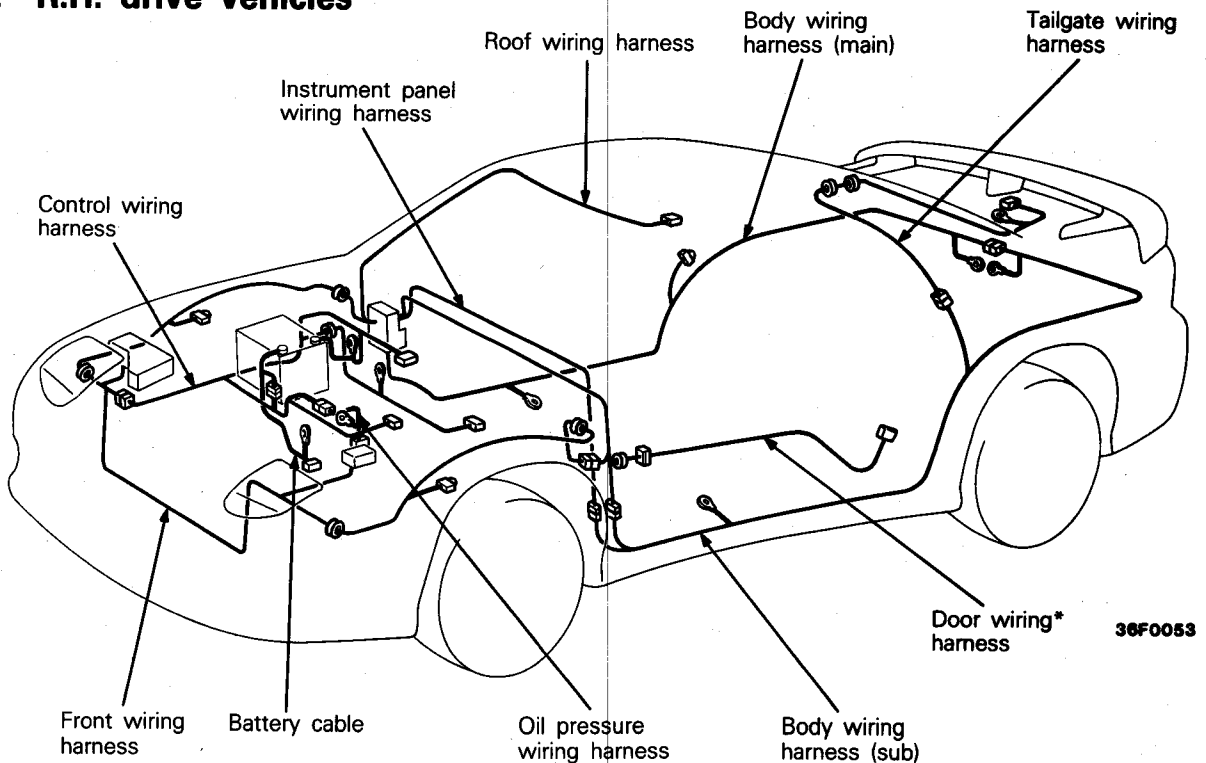
NOTES

1 OVERALL WIRING DIAGRAM

1-1 L.H. drive vehicles



1-2 R.H. drive vehicles

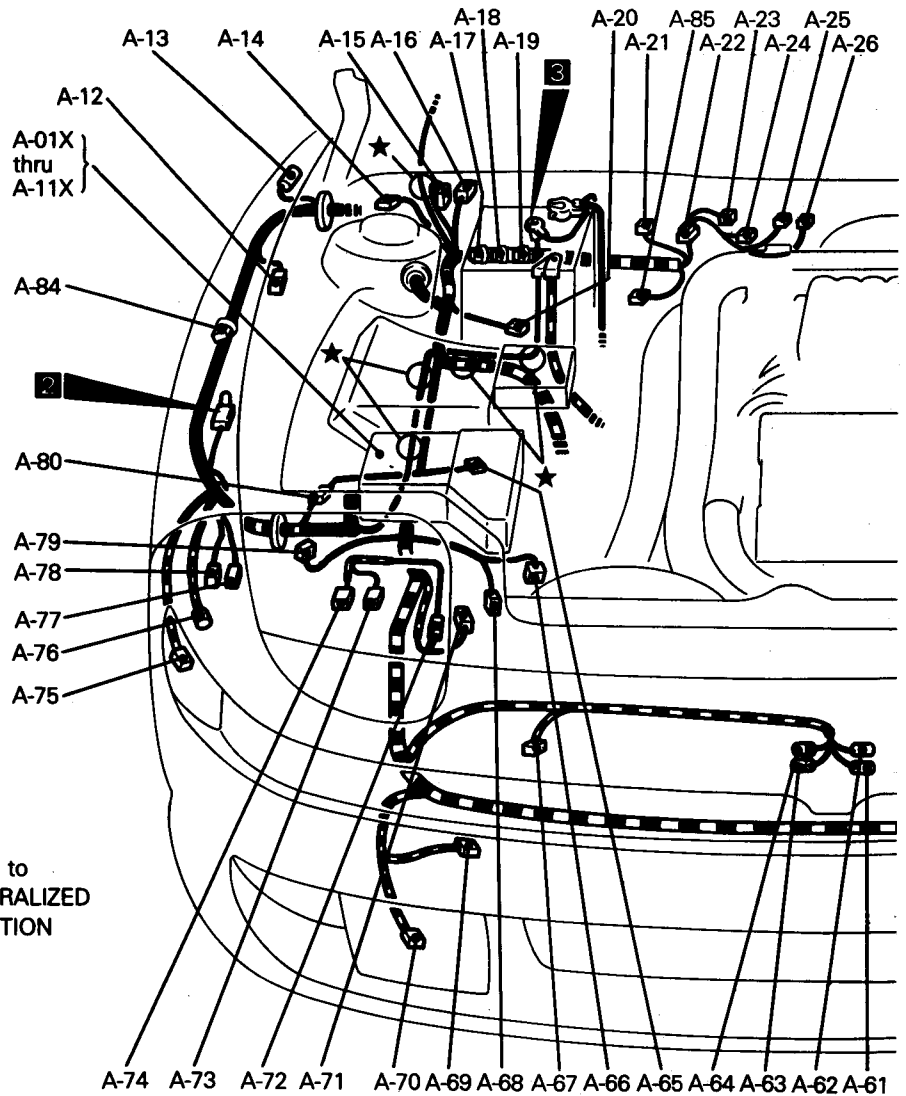
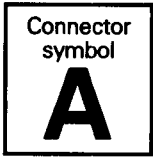


NOTE

- (1) This illustration shows only the major wiring harness.
- (2) *indicates also equipped at the right side.

2 ENGINE COMPARTMENT

2-1 L.H. drive vehicles



- A-01X Headlamp relay
- A-02X ABS power relay
- A-03X Driving lamp relay
- A-04X Radiator fan motor relay (LO)
- A-05X Tail lamp relay
- A-06X Horn relay
- A-07X Radiator fan motor relay (HI)
- A-08X Pop-up motor relay
- A-09X Starter relay
- A-10X Alternator relay
- A-11X Storage connector

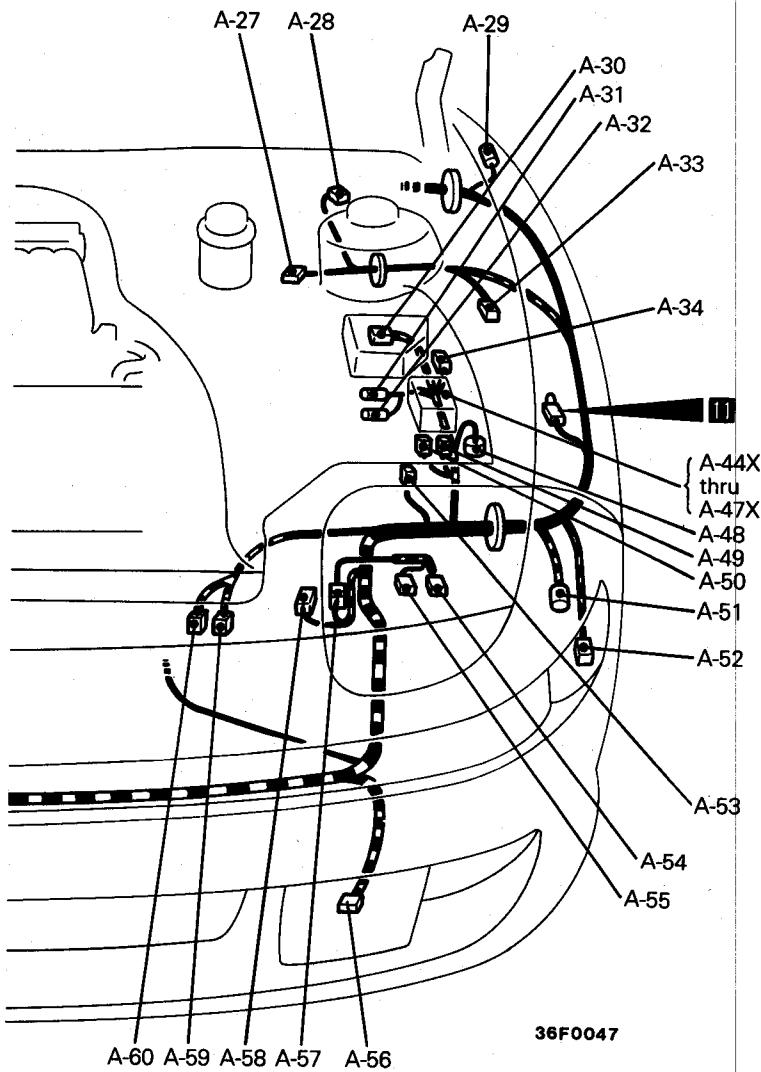
Refer to
CENTRALIZED
JUNCTION

- A-12 ABS front speed sensor (RH)
- A-13 Side turn signal lamp (RH)
- A-14 ECS front shock absorber (RH)
- A-15 Washer fluid level sensor
- A-16 Front wiper motor
- A-17 Engine speed detection connector
- A-18 Fuel pump check connector
- A-19 Ignition timing adjustment connector
- A-20 Front washer motor
- A-21 Resistor
- A-22 Control wiring harness and solenoid valve harness combination
- A-23 Waste gate solenoid valve
- A-24 Fuel pressure solenoid valve
- A-25 Purge control solenoid valve
- A-26 EGR control solenoid valve
- A-27 Brake fluid level sensor
- A-28 ECS front shock absorber (LH)
- A-29 Side turn signal lamp (LH)
- A-30 Auto-cruise vacuum pump
- A-31 } Theft-alarm horn
- A-32 }

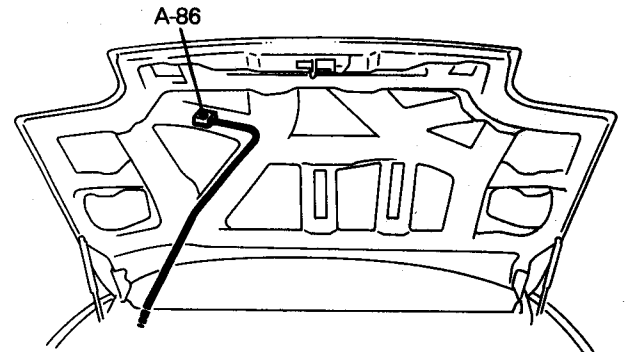
- A-74
- A-73
- A-72
- A-71
- A-70
- A-69
- A-68
- A-67
- A-66
- A-65
- A-64
- A-63
- A-62
- A-61

- A-33 ABS front speed sensor (LH)
- A-34 4WS fluid level sensor
- A-35 } Daytime running lamp relay 1.2
- A-36 }
- A-37 Daytime running lamp control unit
- A-38 } thru —
- A-43 }
- A-44X Condenser fan motor relay (HI)
- A-45X Radiator fan motor control relay
- A-46X Magnetic clutch relay
- A-47X Condenser fan motor relay (LO)
- A-48 Dual pressure switch
- A-49 } Air conditioner relay box
- A-50 }

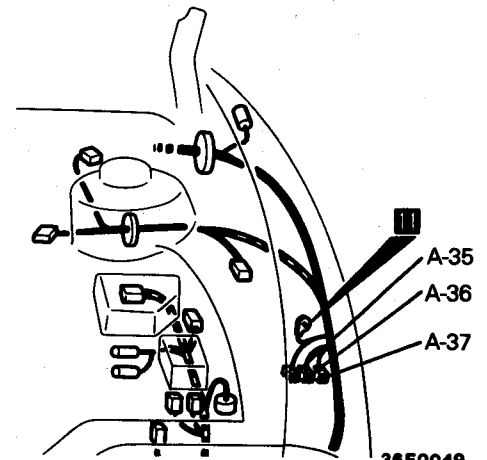
Refer to
CENTRALIZED
JUNCTION



ENGINE HOOD



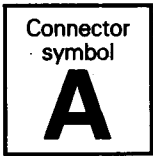
16F0174



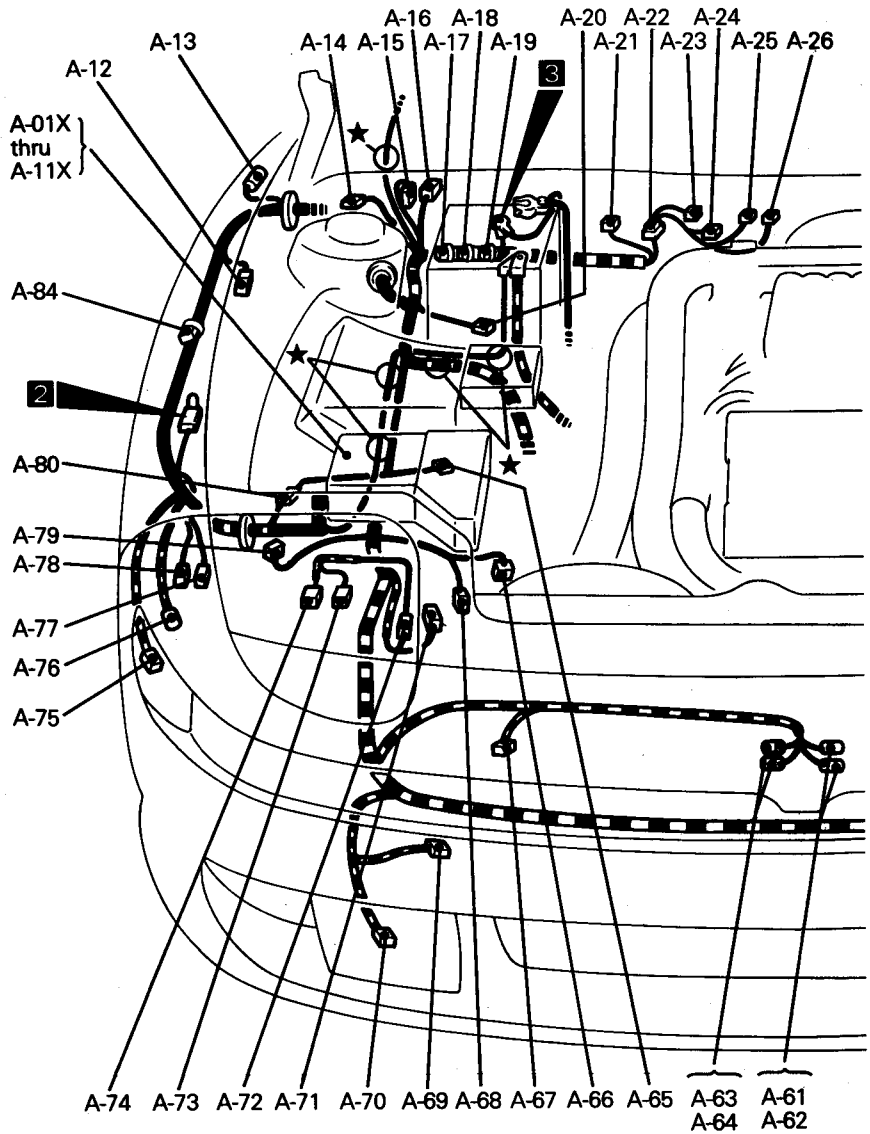
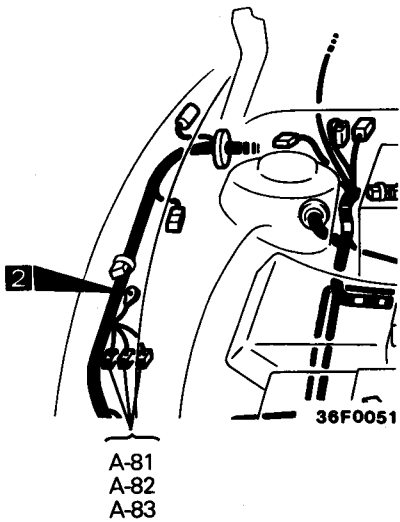
36F0049

- | | | | |
|------------------|---|------------------|---|
| A-51 | SRS front impact sensor (LH) | A-69 | Active aero front venturi skirt |
| A-52 | Front combination lamp (LH) | A-70 | Driving lamp (RH) |
| A-53 | Inspection lamp switch | A-71 | Pop-up motor (RH) |
| A-54 | Headlamp (LH) | A-72 | Front wiring harness and headlamp wiring harness (RH) combination |
| A-55 | Headlamp leveling unit (LH) | A-73 | Headlamp leveling unit (RH) |
| A-56 | Driving lamp (LH) | A-74 | Headlamp (RH) |
| A-57 | Front wiring harness and headlamp wiring harness (LH) combination | A-75 | Front combination lamp (RH) |
| A-58 | Pop-up motor (LH) | A-76 | SRS front impact sensor (RH) |
| A-59 }
A-60 } | Condenser fan motor | A-77 }
A-78 } | ABS hydraulic unit |
| A-61 }
A-64 } | Horn | A-79 | Hood switch |
| A-65 | Fuel pump resistor | A-80 | Front wiring harness and control wiring harness combination |
| A-66 | Radiator fan motor | A-81 }
A-82 } | — |
| A-67 | Headlamp washer motor | A-83 } | |
| A-68 | Engine coolant level sensor | A-84 | Diode (for ABS circuit) |
| | | A-85 | No connection |
| | | A-86 | Inspection lamp |

2-2 R.H. drive vehicles



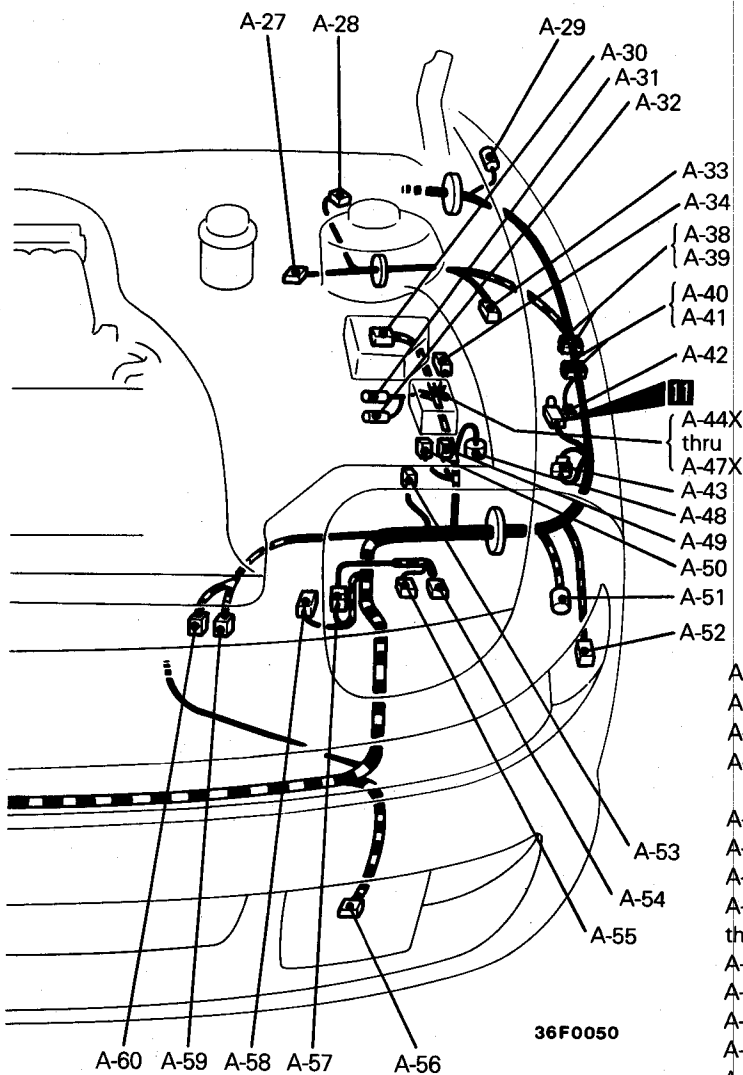
Vehicles with dim-dip lamp



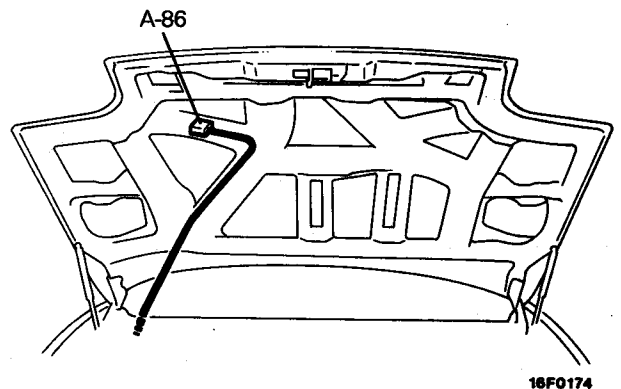
- A-01X Headlamp relay
- A-02X ABS power relay
- A-03X Driving lamp relay
- A-04X Radiator fan motor relay (LO)
- A-05X Tail lamp relay
- A-06X Horn relay
- A-07X Radiator fan motor relay (HI)
- A-08X Pop-up motor relay
- A-09X Starter relay
- A-10X Alternator relay
- A-11X Storage connector
- A-12 ABS front speed sensor (RH)
- A-13 Side turn signal lamp (RH)
- A-14 ECS front shock absorber (RH)
- A-15 Washer fluid level sensor
- A-16 Front wiper motor
- A-17 Engine speed detection connector
- A-18 Fuel pump check connector
- A-19 Ignition timing adjustment connector

Refer to
CENTRALIZED
JUNCTION

- A-20 Front washer motor
- A-21 Resistor
- A-22 Control wiring harness and solenoid valve harness combination
- A-23 Waste gate solenoid valve
- A-24 Fuel pressure solenoid valve
- A-25 Purge control solenoid valve
- A-26 EGR control solenoid valve
- A-27 Brake fluid level sensor
- A-28 ECS front shock absorber (LH)
- A-29 Side turn signal lamp (LH)
- A-30 Auto-cruise vacuum pump
- A-31 } Theft-alarm horn
- A-32 }
- A-33 ABS front speed sensor (LH)
- A-34 4WS fluid level sensor
- A-35 }
- A-36 }
- A-37 }



ENGINE HOOD



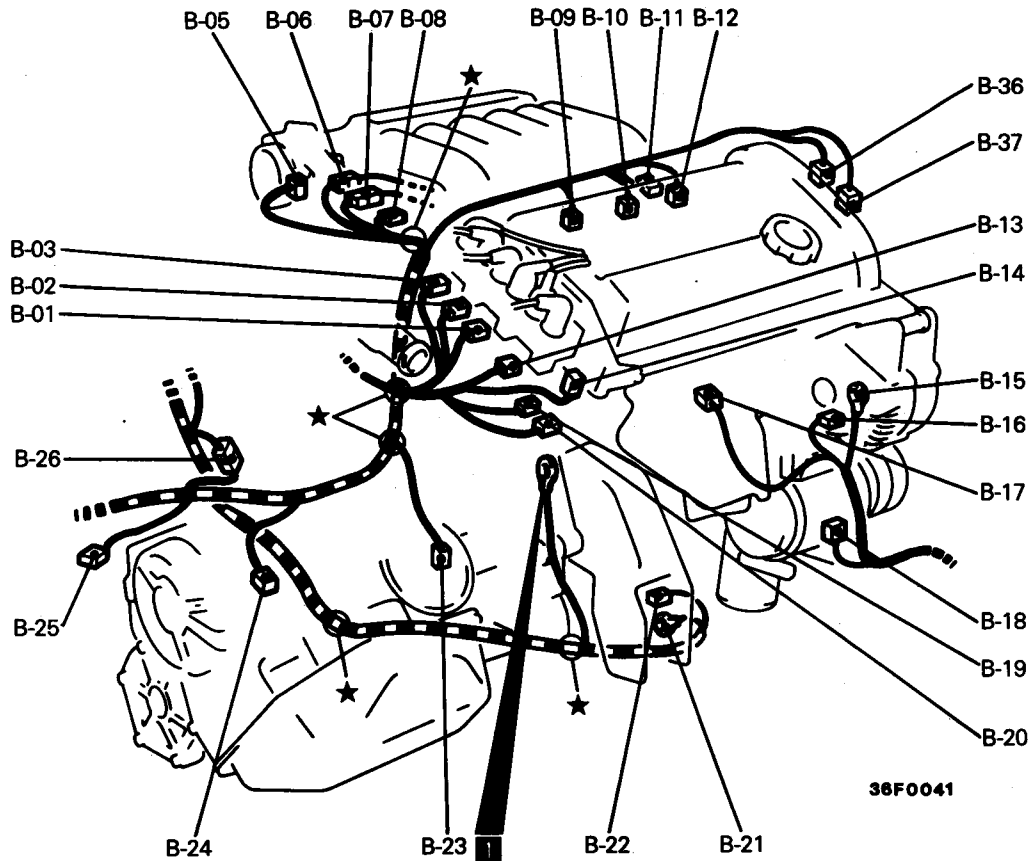
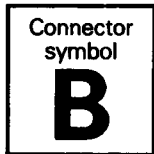
18F0174

- A-38 } Diode (for dim-dip lamp)
- thru }
- A-41 }
- A-42 Resistor (Vehicles with dim-dip lamp)
- A-43 Jumper connector (Vehicles with dim-dip lamp)
- A-44X Condenser fan motor relay (HI)
- A-45X Radiator fan motor control relay
- A-46X Magnetic clutch relay
- A-47X Condenser fan motor relay (LO)
- A-48 Dual pressure switch
- A-49 } Air conditioner relay box
- A-50 }
- A-51 SRS front impact sensor (LH)
- A-52 Front combination lamp (LH)
- A-53 Inspection lamp switch

Refer to
CENTRALIZED
JUNCTION

- A-54 Headlamp (LH)
- A-55 Headlamp leveling unit (LH)
- A-56 Driving lamp (LH)
- A-57 Front wiring harness and headlamp wiring harness (LH) combination
- A-58 Pop-up motor (LH)
- A-59 } Condenser fan motor
- A-60 }
- A-61 } Horn
- A-64 }
- A-65 Fuel pump resistor
- A-66 Radiator fan motor
- A-67 Headlamp washer motor
- A-68 Engine coolant level sensor
- A-69 Active aero front venturi skirt
- A-70 Driving lamp (RH)
- A-71 Pop-up motor (RH)
- A-72 Front wiring harness and headlamp wiring harness (RH) combination
- A-73 Headlamp leveling unit (RH)
- A-74 Headlamp (RH)
- A-75 Front combination lamp (RH)
- A-76 SRS front impact sensor (RH)
- A-77 } ABS hydraulic unit
- A-78 }
- A-79 Hood switch
- A-80 Front wiring harness and control wiring harness combination
- A-81 } Dim-dip lamp relay 1.2.3
- A-82 }
- A-83 }
- A-84 Diode (for ABS circuit)
- A-85 —
- A-86 Inspection lamp

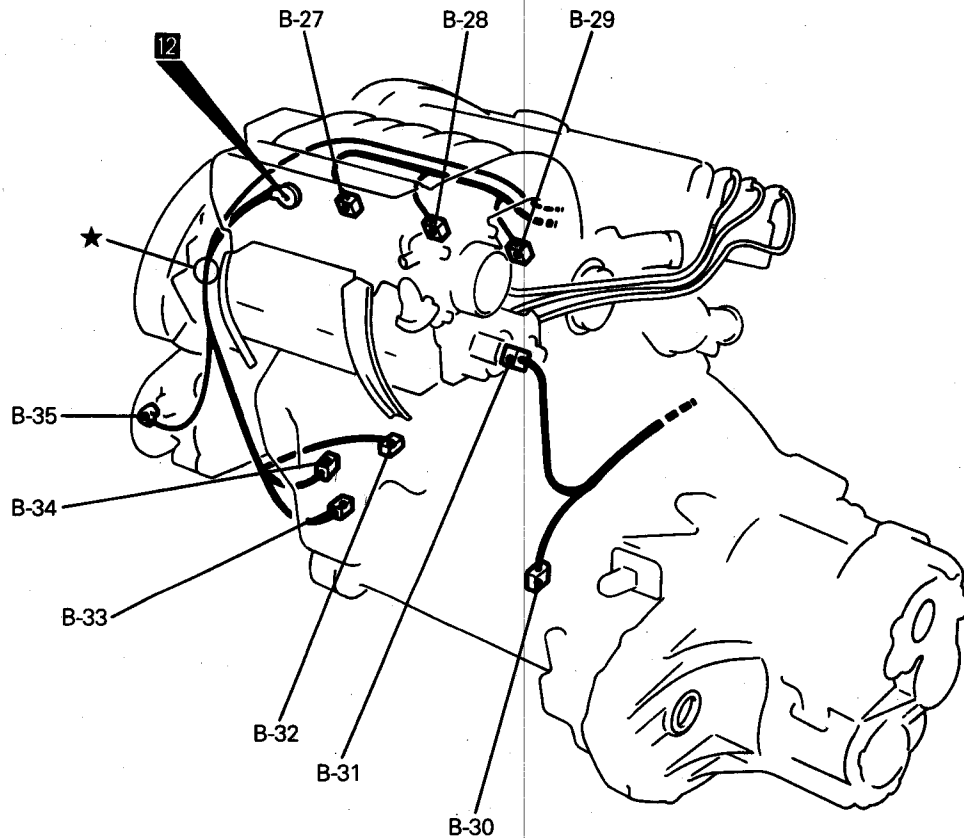
3 ENGINE AND TRANSMISSION



36F0041

- B-01 Engine coolant temperature gauge unit
- B-02 Engine coolant temperature sensor
- B-03 Engine coolant temperature switch (for air conditioner circuit)
- B-04 —
- B-05 Throttle position sensor
- B-06 Control wiring harness and oil pressure wiring harness combination
- B-07 Control wiring harness and injector wiring harness combination
- B-08 Detonation sensor

- B-09 Injector No. 5
- B-10 Injector No. 3
- B-11 Oxygen sensor (LH)
- B-12 Injector No. 1
- B-13 Ignition coil
- B-14 Noise capacitor
- B-15 } Alternator
- B-16 }
- B-17 Oxygen sensor (RH)
- B-18 Magnetic clutch



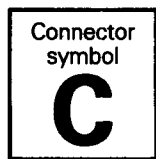
36F0034

- B-19 } Power transistor
- B-20 }
- B-21 } Starter motor
- B-22 }
- B-23 Back-up lamp switch
- B-24 Fuel pump relay
- B-25 Air flow sensor (with intake air temperature sensor and atmospheric sensor)
- B-26 Control wiring harness and battery cable combination
- B-27 Injector No. 2

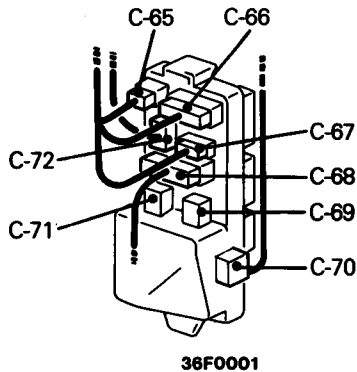
- B-28 Injector No. 4
- B-29 Injector No. 6
- B-30 Speed sensor
- B-31 Idle speed control servo (stepper motor)
- B-32 Engine oil pressure level sensor
- B-33 Oil pressure gauge unit
- B-34 Oil pressure switch
- B-35 Power steering oil pressure switch
- B-36 Cam position sensor
- B-37 Crank angle sensor

4 DASH PANEL

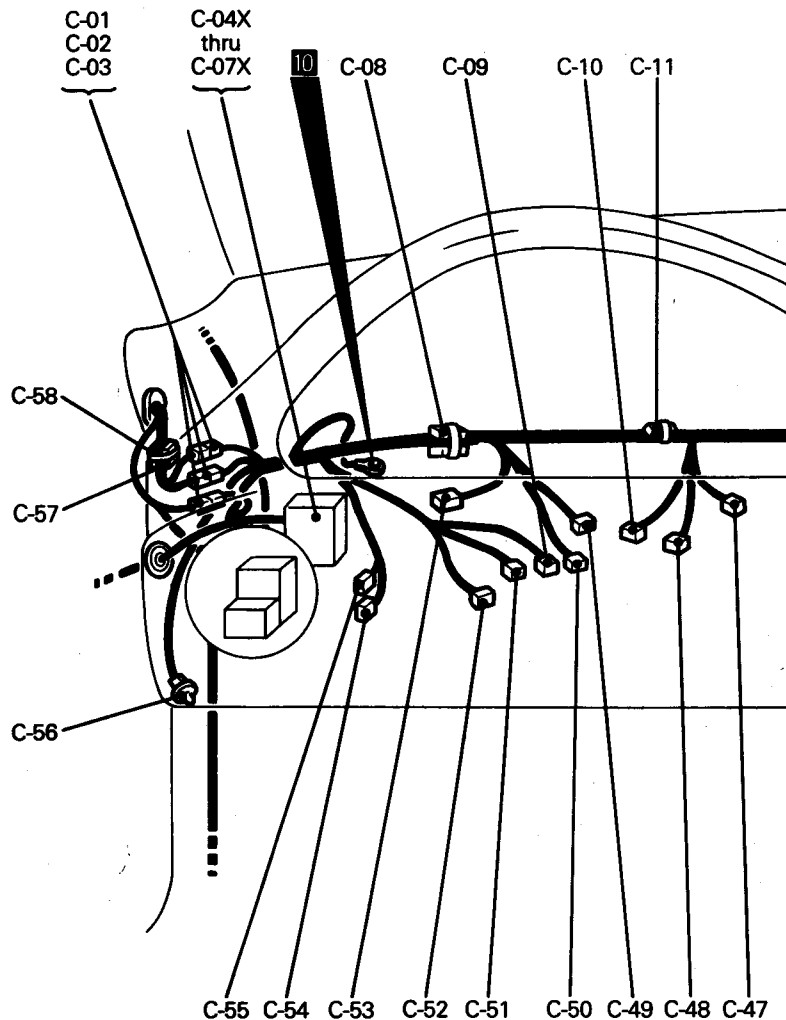
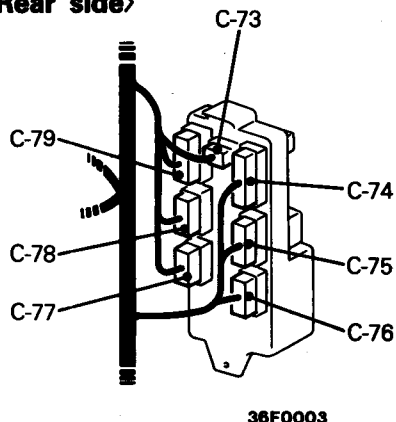
4-1 L.H. drive vehicles



JUNCTION BLOCK <Front side>

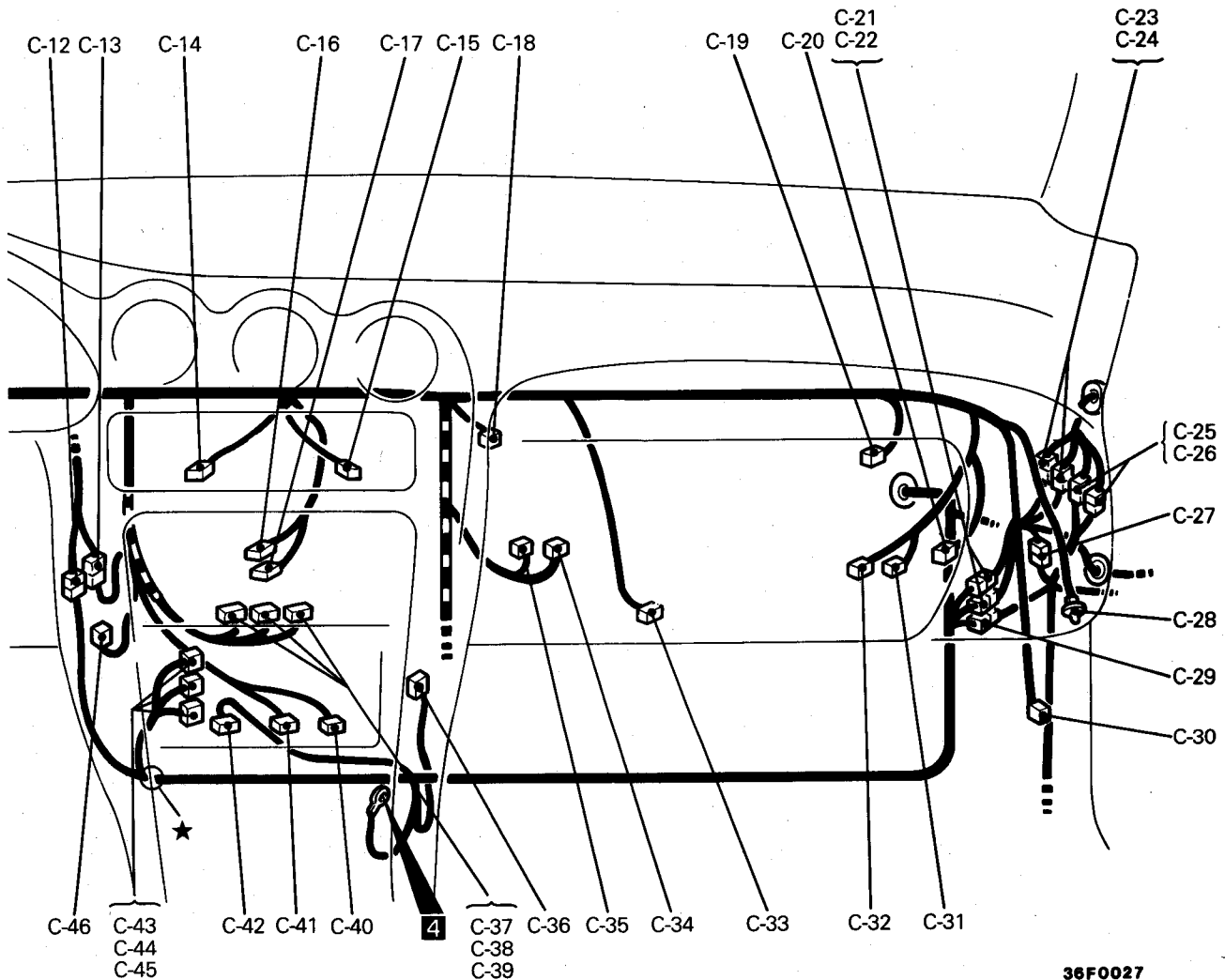


<Rear side>



- | | | |
|-------|--|---------------------------------------|
| C-01 | Body wiring harness (main) | } Refer to
CENTRALIZED
JUNCTION |
| C-02 | and front wiring | |
| C-03 | harness combination | |
| C-04X | Door lock relay | |
| C-05X | Rear fog lamp relay | |
| C-06X | Defogger relay | |
| C-07X | Power window relay | |
| C-08 | Diode (for daytime running lamp) | |
| C-09 | Column switch | |
| C-10 | | |
| C-11 | Diode (for theft-alarm circuit) | |
| C-12 | Control wiring harness and instrument panel wiring harness combination | |
| C-13 | Body wiring harness (main) and instrument panel wiring harness combination | |
| C-14 | Blend air damper control motor | |
| C-15 | Mode selection damper control motor | |
| C-16 | Air conditioner control panel | |
| C-17 | | |
| C-18 | Power transistor (for air conditioner circuit) | |

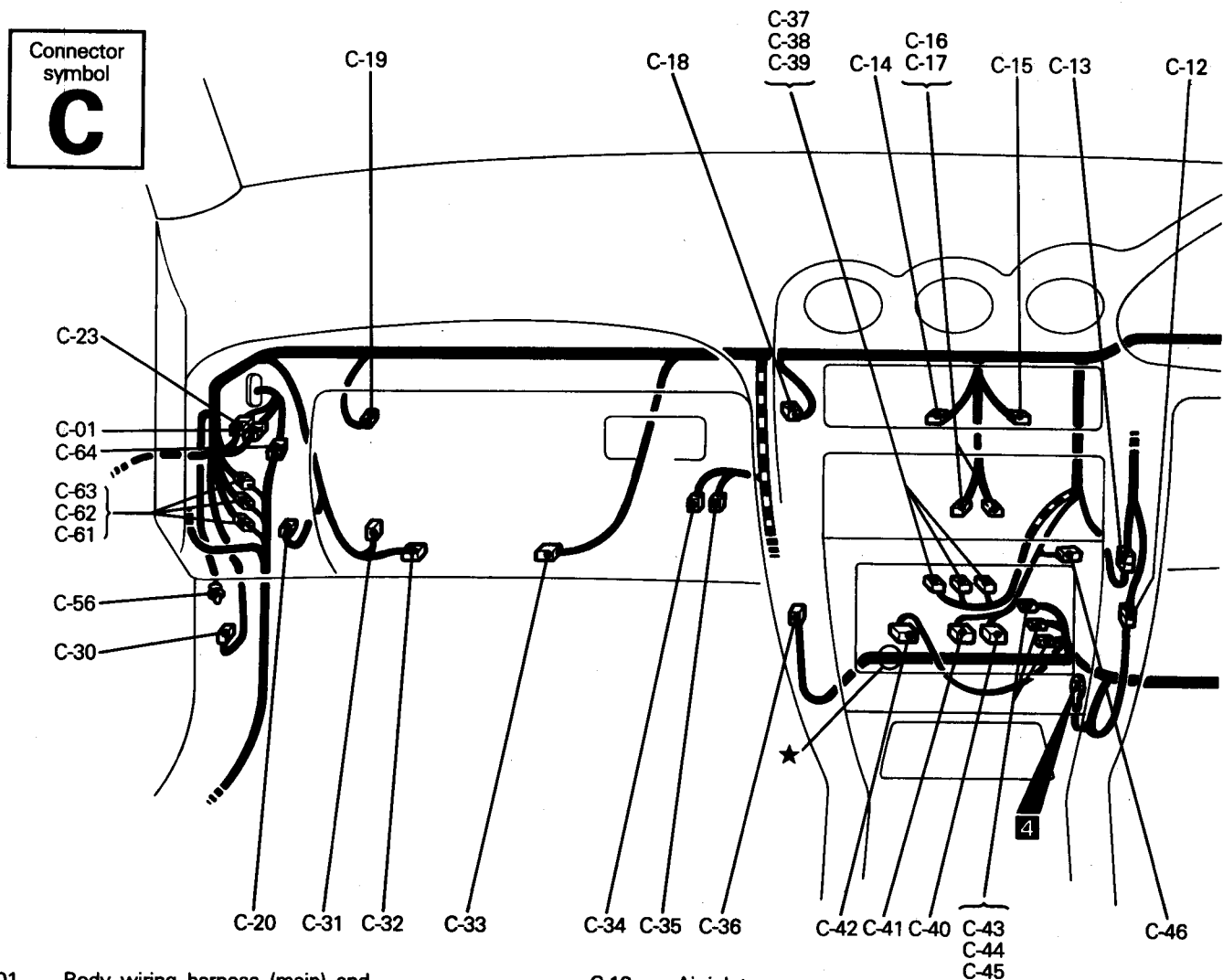
- | | |
|------|--|
| C-19 | Air-inlet sensor |
| C-20 | Air selection damper control motor |
| C-21 | Body wiring harness (main) and control wiring harness combination |
| C-22 | |
| C-23 | Body wiring harness (main) and front wiring harness combination |
| C-24 | harness combination |
| C-25 | Body wiring harness (sub) and front wiring harness combination |
| C-26 | |
| C-27 | Body wiring harness (main) and body wiring harness (sub) combination |
| C-28 | Foot lamp (RH) |
| C-29 | Body wiring harness (sub) and control wiring harness combination |
| C-30 | Auto-cruise control unit |
| C-31 | Blower motor |
| C-32 | Blower motor relay (HI) |
| C-33 | Air conditioner compressor lock controller |
| C-34 | Air-thermo sensor |
| C-35 | Engine coolant temperature sensor |
| C-36 | Engine control relay |



36F0027

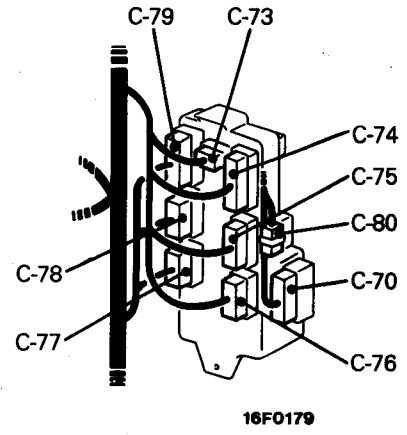
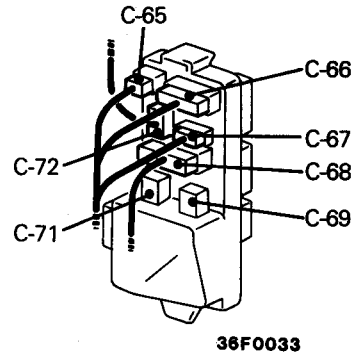
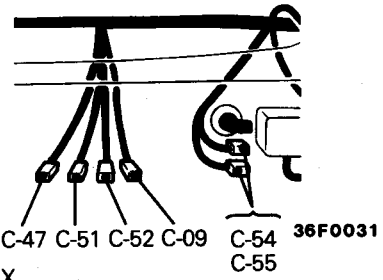
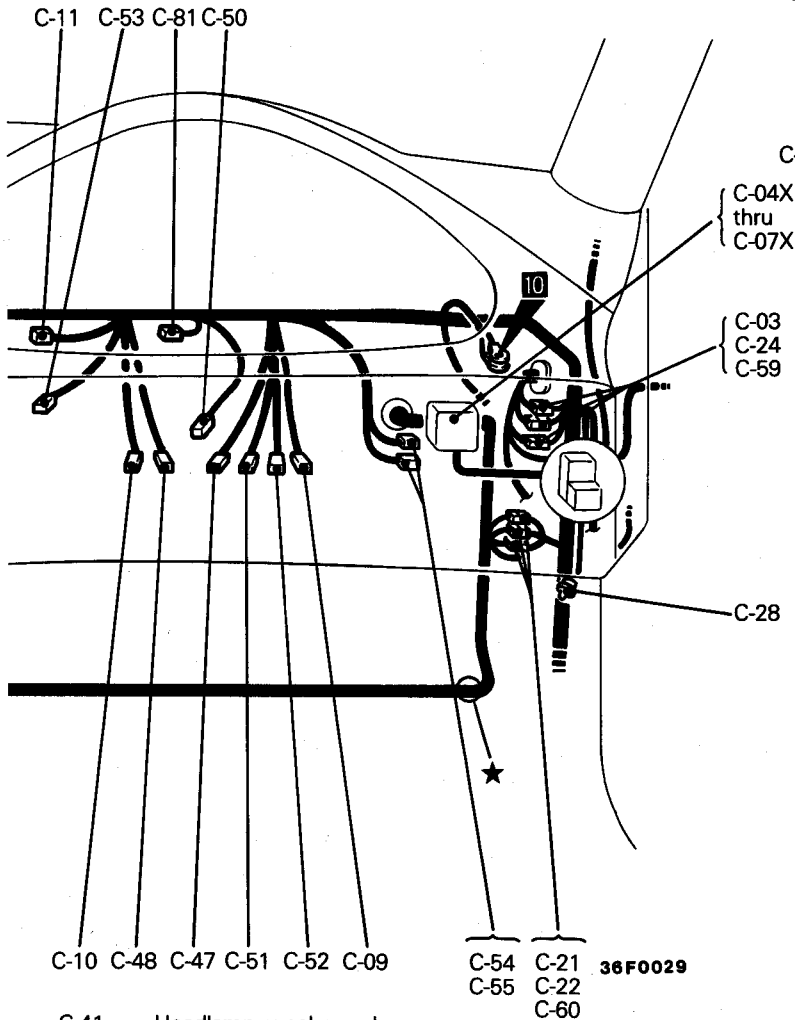
- | | | | |
|------|-----------------------------------|------|---|
| C-37 | Air conditioner control unit | C-57 | Diode (for daytime running lamp) |
| C-38 | | C-58 | Diode (for rear fog lamp circuit) |
| C-39 | | C-59 | — |
| C-40 | Lighting monitor buzzer | C-64 | — |
| C-41 | Headlamp washer relay | C-65 | Front wiring harness and junction block combination |
| C-42 | Engine oil level sensor relay | C-66 | |
| C-43 | Engine control unit | C-67 | |
| C-44 | | C-68 | Adapter wiring harness and junction block combination |
| C-45 | | C-69 | Theft-alarm horn relay |
| C-46 | Auto-cruise relay | C-70 | Diagnosis connector |
| C-47 | Steering wheel angle speed sensor | C-71 | Blower motor relay |
| C-48 | Clock spring | C-72 | Roof wiring harness and junction block combination |
| C-49 | No connection | C-73 | Body wiring harness (main) and junction block combination |
| C-50 | Stop lamp switch | C-79 | |
| C-51 | Key reminder switch | C-80 | |
| C-52 | Ignition switch | | |
| C-53 | Clutch pedal switch | | |
| C-54 | ETACS control unit | | |
| C-55 | | | |
| C-56 | Foot lamp (LH) | | |

4-2 R.H. drive vehicles



- | | | | |
|--------|--|--|--|
| C-01 | Body wiring harness (main) and front wiring harness combination | C-19 | Air-inlet sensor |
| C-02 | — | C-20 | Air selection damper control motor |
| C-03 | Body wiring harness (main) and front wiring harness combination | C-21 } Body wiring harness (main) and control | |
| C-04X | Door lock relay | C-22 } wiring harness combination | |
| C-05X | Rear fog lamp relay | C-23 } Body wiring harness (main) and front wiring harness | |
| C-06X | Defogger relay | C-24 } combination | |
| C-07X | Power window relay | C-25 } | |
| C-08 | — | C-26 } | |
| C-09 } | Column switch | C-27 } | |
| C-10 } | | | |
| C-11 | Diode (for theft-alarm circuit) | C-28 | Foot lamp (RH) |
| C-12 | Control wiring harness and instrument panel wiring harness combination | C-29 | — |
| C-13 | Body wiring harness (main) and instrument panel wiring harness combination | C-30 | Auto-cruise control unit |
| C-14 | Blend air damper control motor | C-31 | Blower motor |
| C-15 | Mode selection damper control motor | C-32 | Blower motor relay (HI) |
| C-16 } | Air conditioner control panel | C-33 | Air conditioner compressor lock controller |
| C-17 } | | | |
| C-18 | Power transistor (for air conditioner circuit) | C-34 | Air-thermo sensor |
| | | C-35 | Engine coolant temperature sensor |
| | | C-36 | Engine control relay |
| | | C-37 } | Air conditioner control unit |
| | | C-38 } | |
| | | C-39 } | Lighting monitor buzzer |
| | | C-40 } | |

Vehicles with theft-alarm system

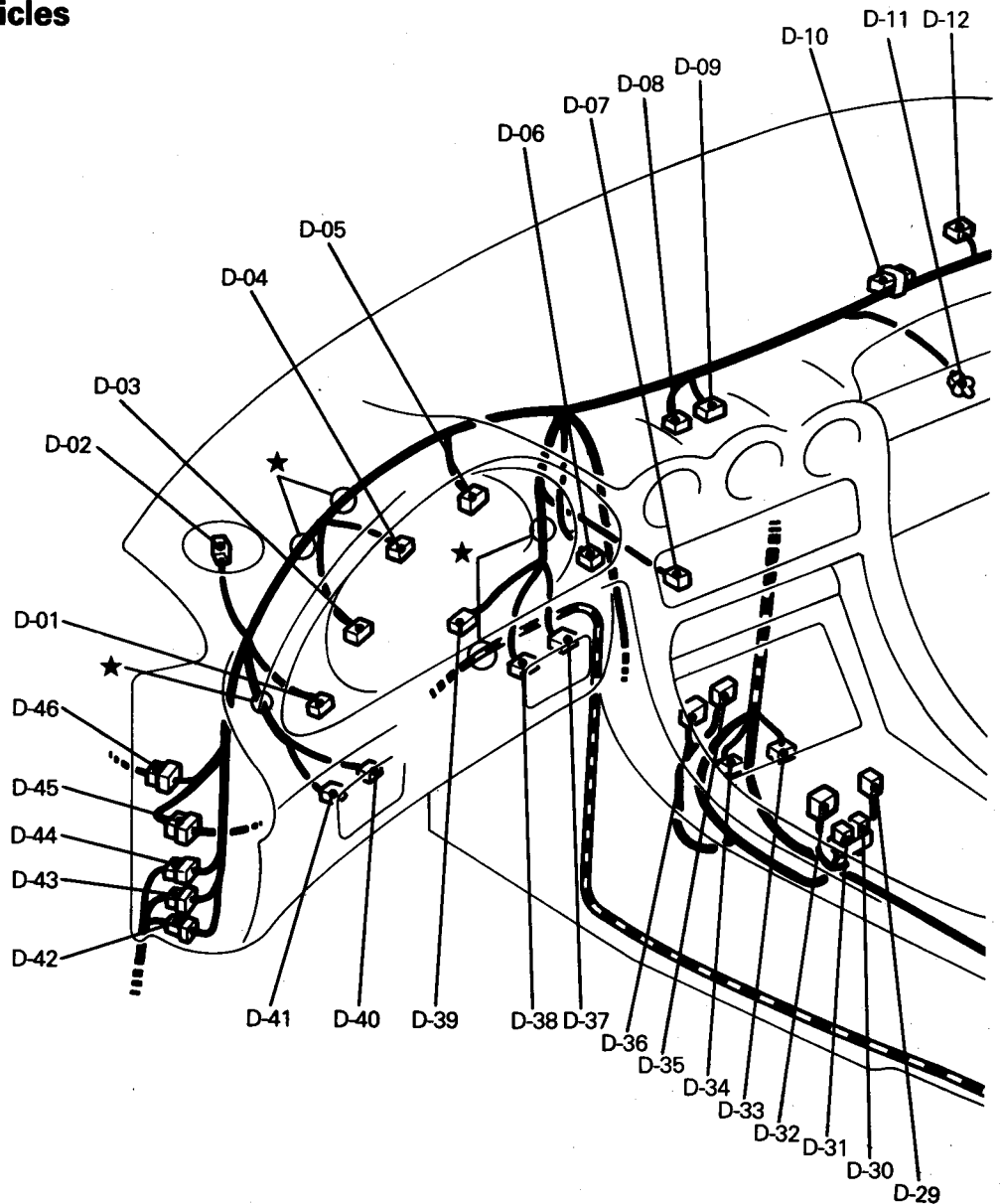
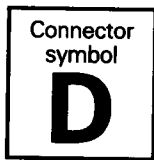


- C-41 Headlamp washer relay
- C-42 Engine oil level sensor relay
- C-43 } Engine control unit
- C-44 }
- C-45 }
- C-46 Auto-cruise relay
- C-47 Steering wheel angle speed sensor
- C-48 Clock spring
- C-49 —
- C-50 Stop lamp switch
- C-51 Key reminder switch
- C-52 Ignition switch
- C-53 Clutch pedal switch
- C-54 } ETACS control unit
- C-55 }
- C-56 Foot lamp (LH)
- C-57 —
- C-58 —
- C-59 Body wiring harness (main) and front wiring harness combination
- C-60 Body wiring harness (main) and control wiring harness combination

- C-61 } Body wiring harness (main) and body wiring harness (sub) combination
- C-62 }
- C-63 }
- C-64 Body wiring harness (sub) and front wiring harness combination
- C-65 } Front wiring harness and junction block combination
- C-66 }
- C-67 }
- C-68 Adapter wiring harness and junction block combination
- C-69 Theft-alarm horn relay
- C-70 Diagnosis connector
- C-71 Blower motor relay
- C-72 Roof wiring harness and junction block combination
- C-73 } Body wiring harness (main) and junction block combination
- C-74 }
- C-75 }
- C-76 }
- C-77 }
- C-78 }
- C-79 }
- C-80 No connection
- C-81 Diode (pop-up circuit)

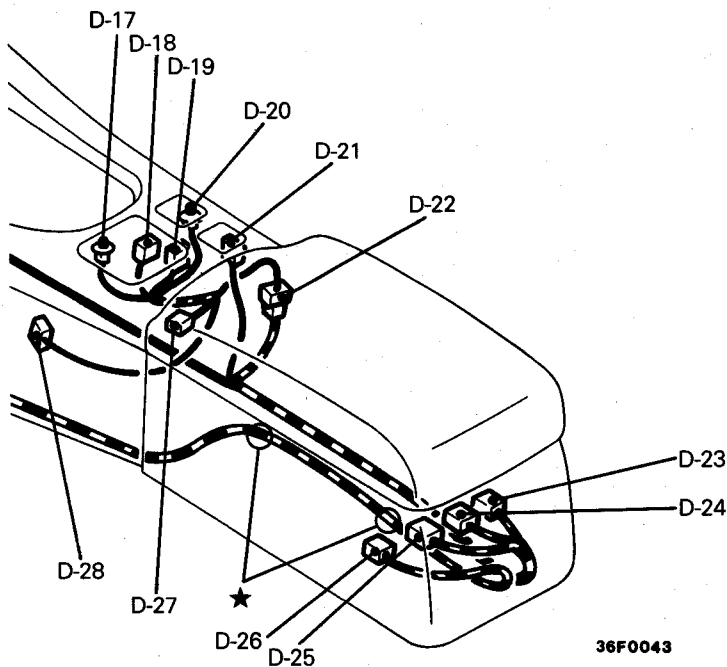
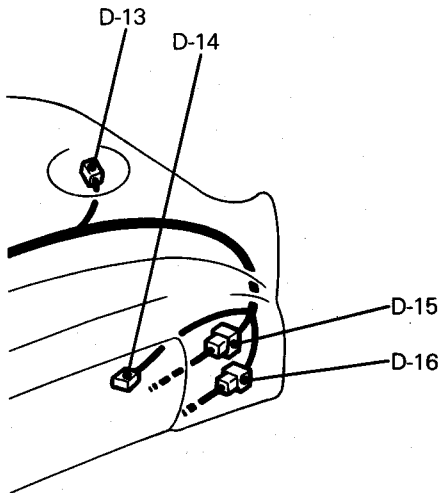
5 INSTRUMENT PANEL AND FLOOR CONSOLE

5-1 L.H. drive vehicles



D-01 Pop-up switch and fog lamp switch
 D-02 Front speaker (LH)
 D-03 }
 thru } Combination meter
 D-05 }
 D-06 Defogger switch and ECS switch
 D-07 Hazard switch
 D-08 Clock
 D-09 Combination gauge
 D-10 Diode (for 4WS fluid level warning lamp circuit)
 D-11 Glove box illumination lamp
 D-12 Photo sensor

D-13 Front speaker (RH)
 D-14 Glove box illumination lamp switch
 D-15 Instrument panel wiring harness and control wiring harness combination
 D-16 Instrument panel wiring harness and body wiring harness (sub) combination
 D-17 Ashtray illumination lamp
 D-18 }
 D-19 } Cigarette lighter
 D-20 Cigarette lighter illumination lamp
 D-21 Power seat switch
 D-22 Body wiring harness (main) and console wiring harness combination

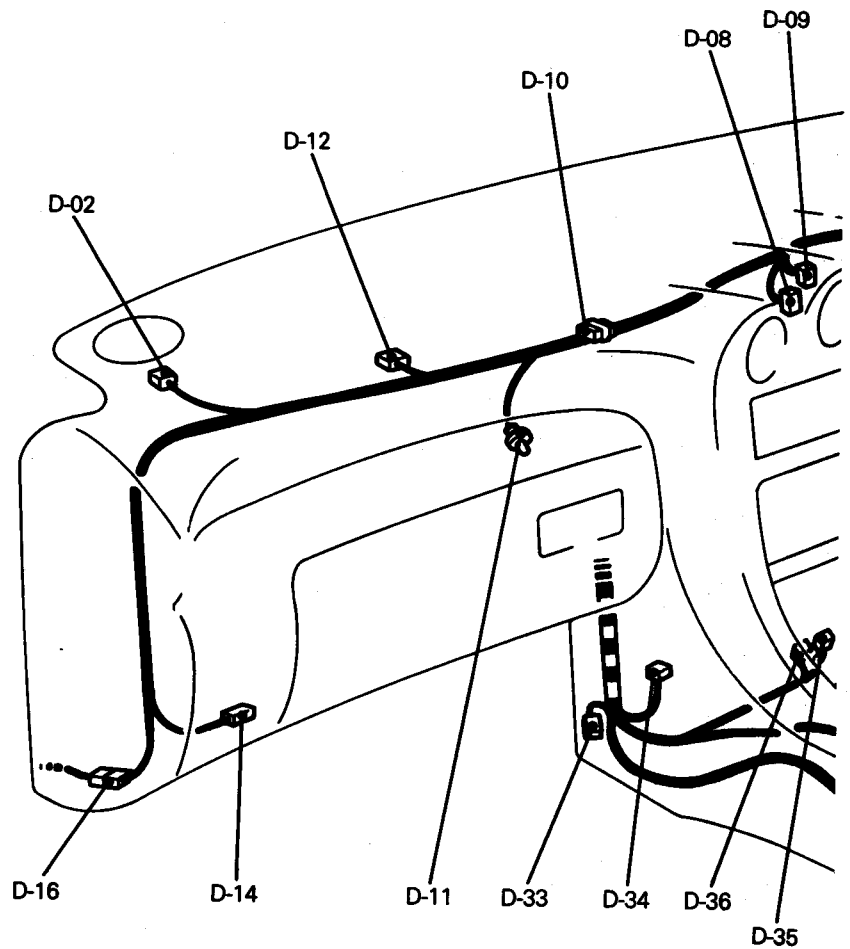
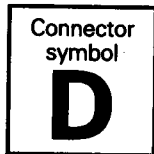


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- D-23 } SRS diagnosis unit
- D-26 }
- D-27 ABS G sensor
- D-28 Parking brake switch
- D-29 Active aero switch
- D-30 } Accessory socket
- D-31 }
- D-32 Auto-cruise main switch
- D-33 Jumper connector
- D-34 Pop-up relay
- D-35 } Radio
- D-36 }

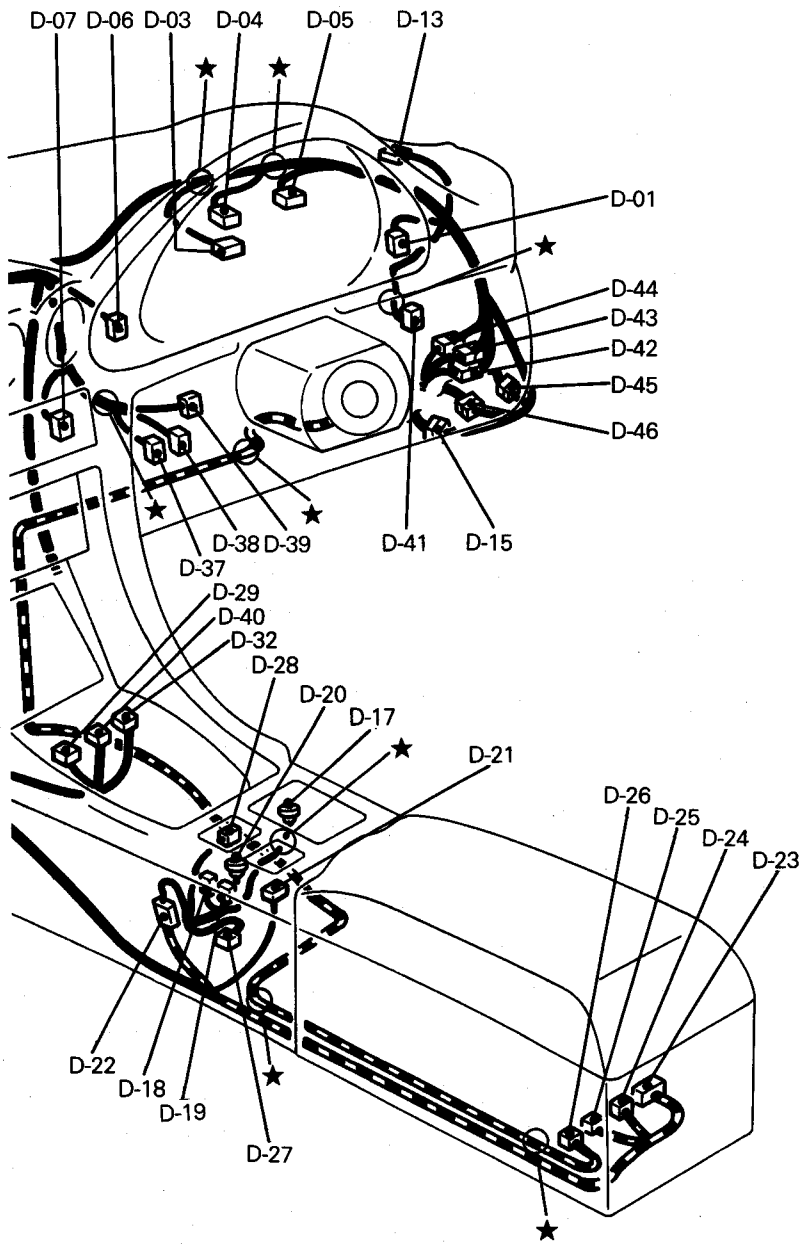
- D-37 Rear wiper and washer switch
- D-38 Headlamp leveling switch
- D-39 No connection
- D-40 Remote-control mirror switch
- D-41 Rheostat
- D-42 } Instrument panel wiring harness and
- D-43 } body wiring harness (main) combination
- D-44 }
- D-45 Instrument panel wiring harness and adapter
- wiring harness combination
- D-46 Instrument panel wiring harness and front
- wiring harness combination

5-2 R.H. drive vehicles



D-01 Pop-up switch and fog lamp switch
 D-02 Front speaker (LH)
 D-03 }
 D-04 } Combination meter
 D-05 }
 D-06 Defogger switch and ECS switch
 D-07 Hazard switch
 D-08 Clock
 D-09 Combination gauge
 D-10 Diode (for 4WS fluid level warning lamp circuit)
 D-11 Glove box illumination lamp
 D-12 Photo sensor

D-13 Front speaker (RH)
 D-14 Glove box illumination lamp switch
 D-15 Instrument panel wiring harness and control wiring harness combination
 D-16 Instrument panel wiring harness and body wiring harness (sub) combination
 D-17 Ashtray illumination lamp
 D-18 }
 D-19 } Cigarette lighter
 D-20 Cigarette lighter illumination lamp
 D-21 Power seat switch
 D-22 Body wiring harness (main) and console wiring harness combination

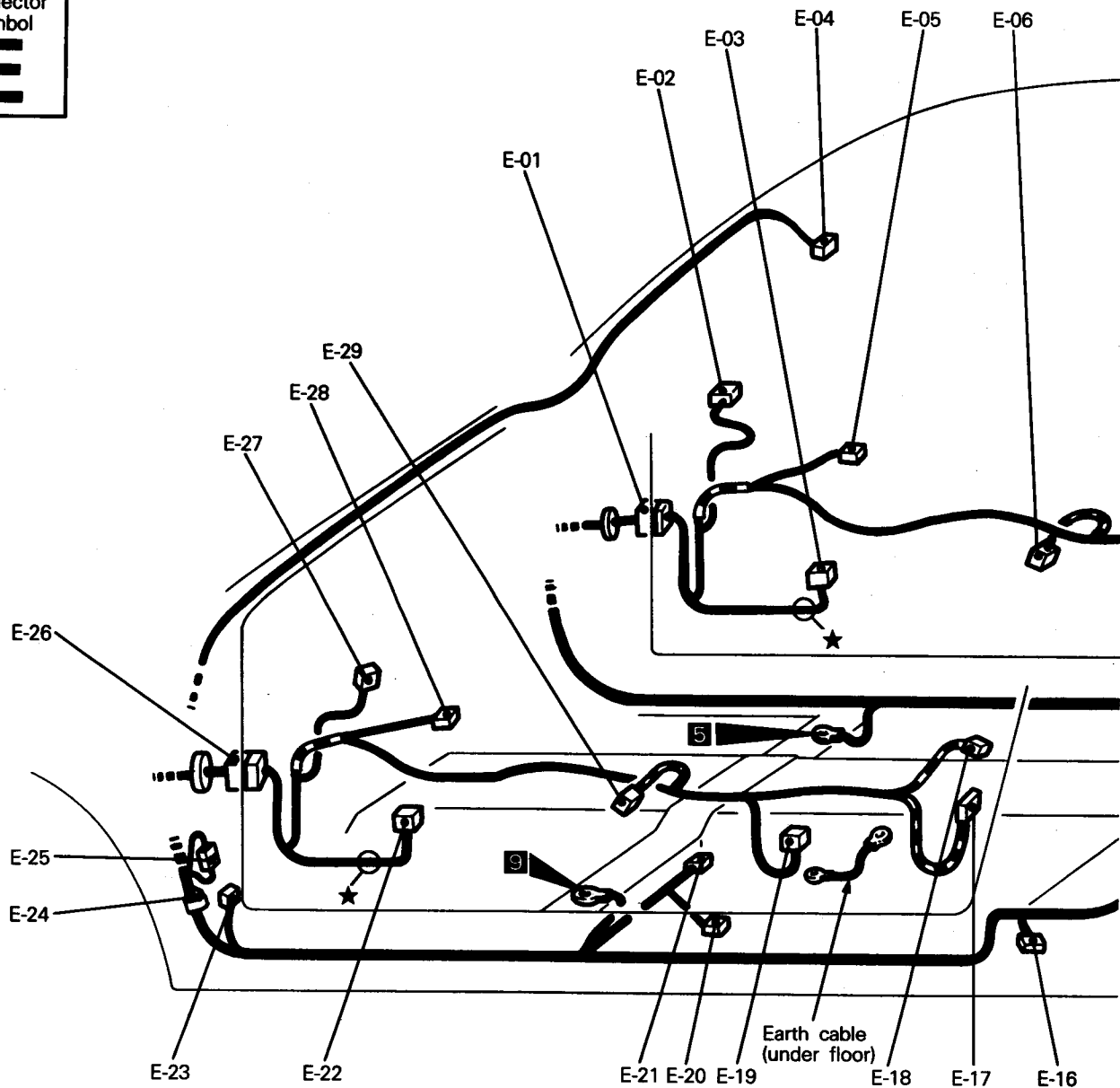
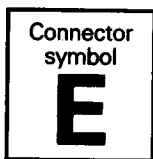


- | | | | |
|----------------------------|-------------------------|------------------|---|
| D-23 }
thru }
D-26 } | SRS diagnosis unit | D-37 | Rear wiper and washer switch |
| D-27 | ABS G sensor | D-38 | Headlamp leveling switch |
| D-28 | Parking brake switch | D-39 | No connection |
| D-29 | Active aero switch | D-40 | Remote-control mirror switch |
| D-30 }
D-31 } | — | D-41 | Rheostat |
| D-32 | Auto-cruise main switch | D-42 }
D-43 } | Instrument panel wiring harness and
body wiring harness (main) combination |
| D-33 | Jumper connector | D-44 } | |
| D-34 | Pop-up relay | D-45 | Instrument panel wiring harness and adapter
wiring harness combination |
| D-35 }
D-36 } | Radio | D-46 | Instrument panel wiring harness and front
wiring harness combination |

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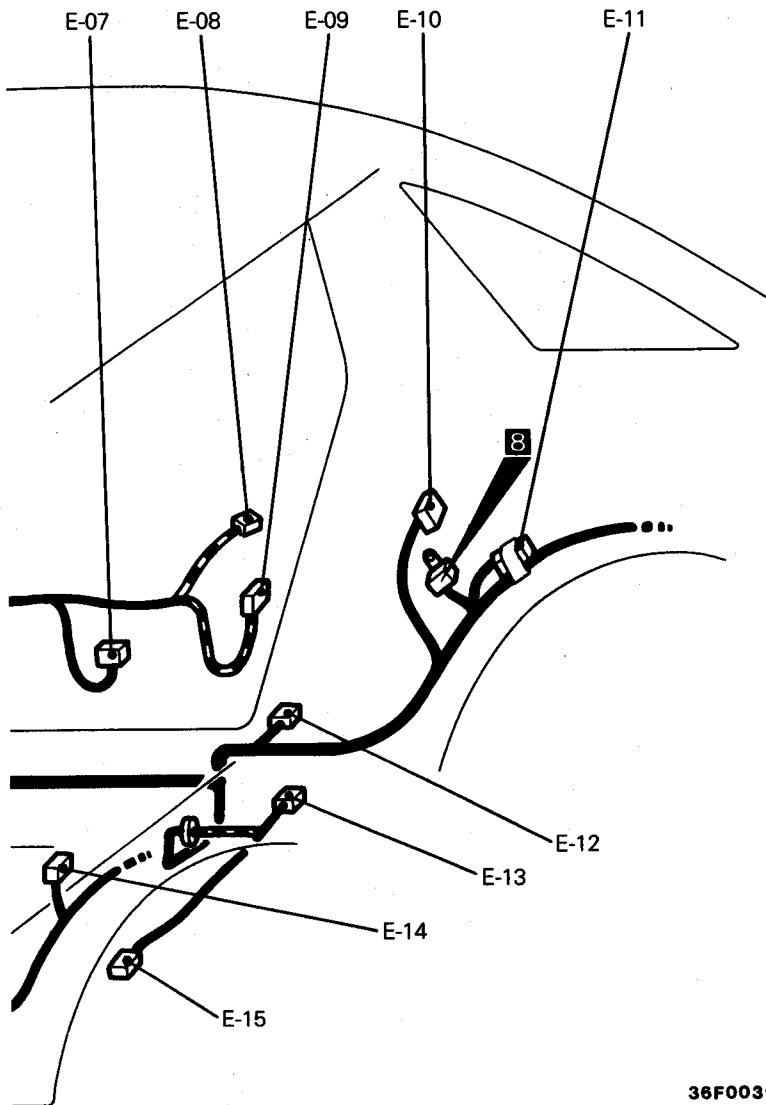
6 INTERIOR

6-1 L.H. drive vehicles



E-01 Body wiring harness (main) and door wiring harness (RH) combination
 E-02 Door mirror (RH)
 E-03 Door speaker (RH)
 E-04 Room lamp
 E-05 Power window sub switch
 E-06 Power window motor (Passenger's side)
 E-07 Door lamp (Passenger's side)

E-08 Door key cylinder unlock switch (Passenger's side)
 E-09 Door lock actuator (Passenger's side)
 E-10 ABS control unit
 E-11 ABS resistor
 E-12 Door switch (Passenger's side)
 E-13 ABS rear speed sensor (RH)
 E-14 Rear intermittent wiper relay
 E-15 ABS rear speed sensor (LH)

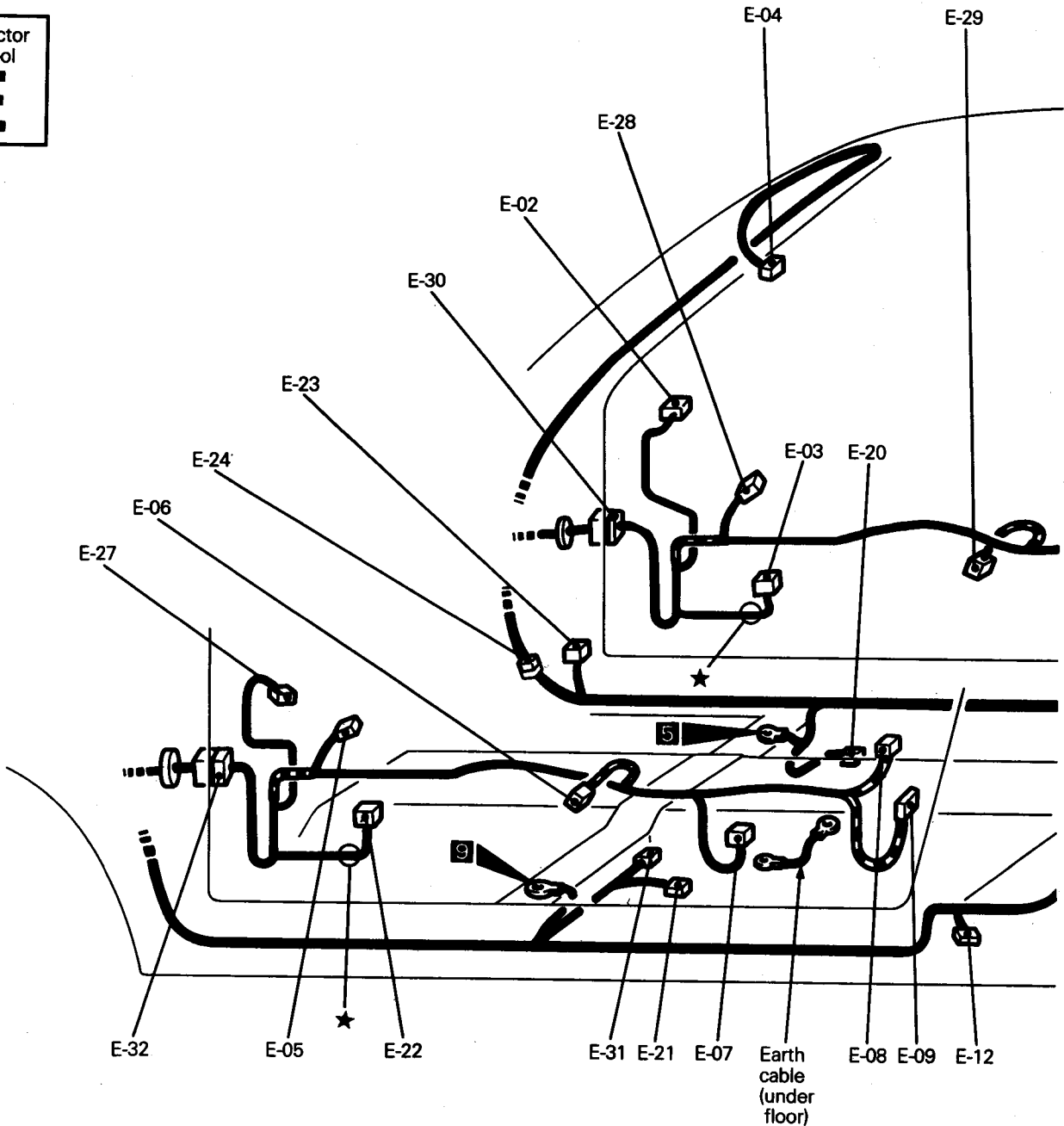
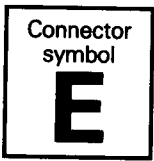


36F0039

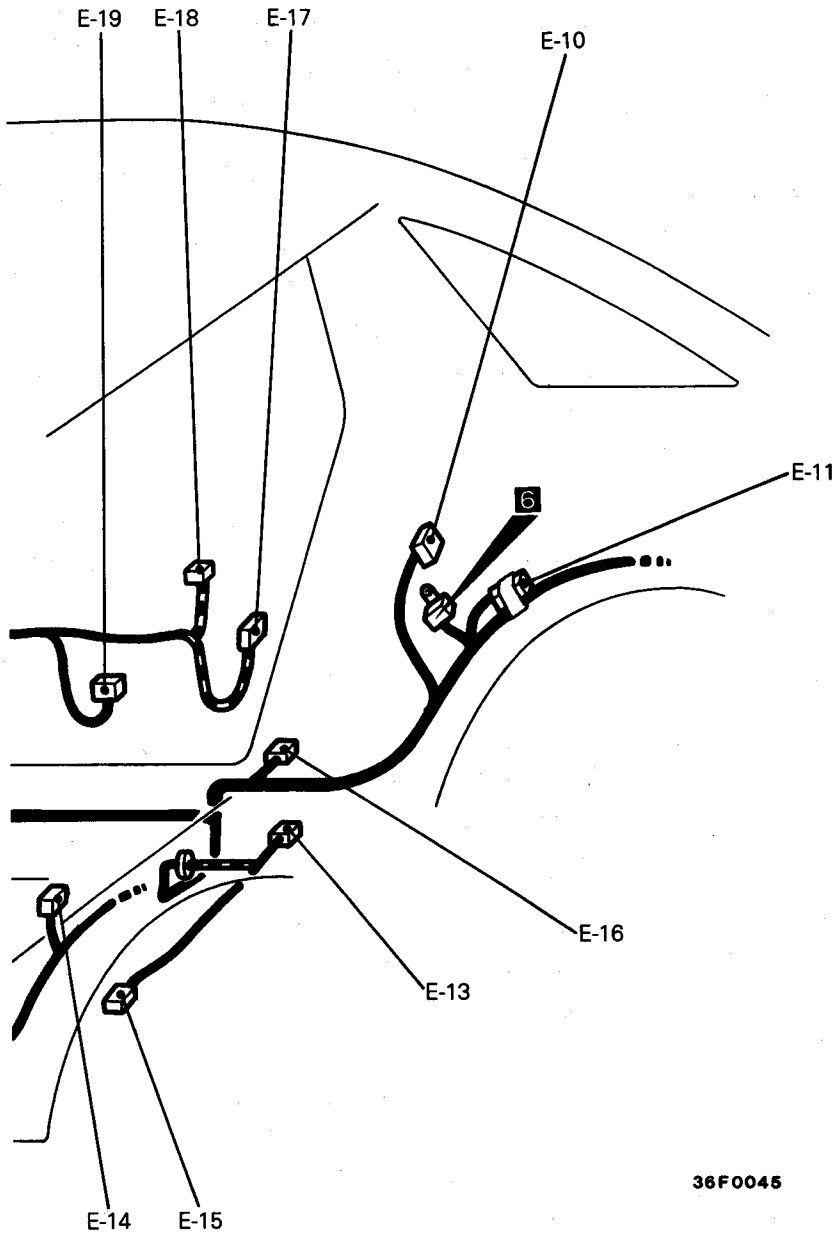
- E-16 Door switch (Driver's side)
- E-17 Door lock actuator (Driver's side)
- E-18 Door key cylinder unlock switch (Driver's side)
- E-19 Door lamp (Driver's side)
- E-20 Power seat assembly
- E-21 ECS G sensor
- E-22 Door speaker
- E-23 Turn signal and hazard flasher unit
- E-24 Diode (for MPI circuit)

- E-25 Jumper connector
- E-26 Body wiring harness (main) and door wiring harness (LH) combination
- E-27 Door mirror (LH)
- E-28 Power window main switch
- E-29 Power window motor (Driver's side)
- E-30 } —
- E-31 } —
- E-32 } —

6-2 R.H. drive vehicles



- | | | | |
|------|--|------|---------------------------------------|
| E-01 | — | E-09 | Door lock actuator (Passenger's side) |
| E-02 | Door mirror (RH) | E-10 | ABS control unit |
| E-03 | Door speaker (RH) | E-11 | ABS resistor |
| E-04 | Room lamp | E-12 | Door switch (Passenger's side) |
| E-05 | Power window sub switch | E-13 | ABS rear speed sensor (RH) |
| E-06 | Power window motor (Passenger's side) | E-14 | Rear intermittent wiper relay |
| E-07 | Door lamp (Passenger's side) | E-15 | ABS rear speed sensor (LH) |
| E-08 | Door key cylinder unlock switch (Passenger's side) | E-16 | Door switch (Driver's side) |

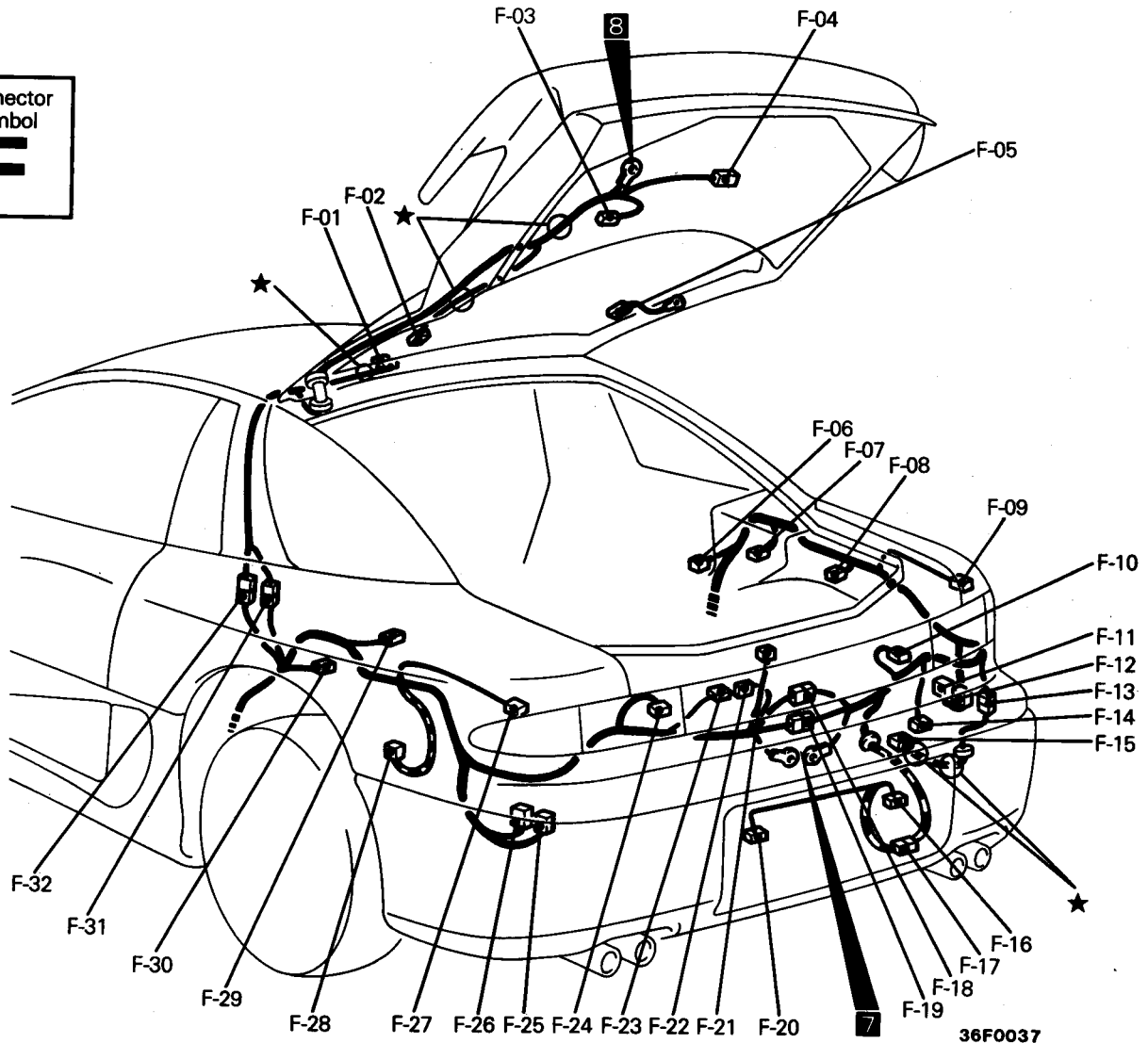


36F0045

- | | | | |
|------|---|------|---|
| E-17 | Door lock actuator (Driver's side) | E-26 | Body wiring harness (main) and door wiring harness (LH) combination |
| E-18 | Door key cylinder unlock switch (Driver's side) | E-27 | Door mirror (LH) |
| E-19 | Door lamp (Driver's side) | E-28 | Power window main switch |
| E-20 | Power seat assembly | E-29 | Power window motor (Driver's side) |
| E-21 | ECS G sensor | E-30 | Body wiring harness (main) and door wiring harness (RH) combination |
| E-22 | Door speaker | E-31 | No connection |
| E-23 | Turn signal and hazard flasher unit | E-32 | Body wiring harness (main) and door wiring harness (LH) combination |
| E-24 | Diode (for MPI circuit) | | |
| E-25 | Jumper connector | | |

7 LUGGAGE COMPARTMENT

Connector symbol
F



- | | | | |
|--------|---|--------|---|
| F-01 | Interior temperature sensor | F-17 | Body wiring harness (sub) and rear bumper wiring harness combination <LHD> |
| F-02 | Defogger (+) | | Body wiring harness (main) and rear bumper wiring harness combination <RHD> |
| F-03 | Rear wiper motor | F-18 } | Body wiring harness (main) and body wiring harness (sub) combination |
| F-04 | Active aero rear spoiler | F-19 } | |
| F-05 | Defogger (-) | F-20 | License plate lamp (LH) |
| F-06 | Rear speaker (RH) | F-21 | Luggage compartment lamp switch |
| F-07 | ECS rear shock absorber (RH) | F-22 | Tailgate cylinder lock switch |
| F-08 | Luggage compartment lamp | F-23 | Tailgate switch |
| F-09 | Rear combination lamp (RH) | F-24 | Buck-up lamp (LH) |
| F-10 | Back-up lamp (RH) | F-25 } | Active aero control unit |
| F-11 } | ECS control unit | F-26 } | |
| F-12 } | | | |
| F-13 | Body wiring harness (sub) and fuel tank wiring harness combination <LHD> | F-27 | Rear combination lamp (LH) |
| | Body wiring harness (main) and fuel tank wiring harness combination <RHD> | F-28 | Motor antenna control unit |
| F-14 | Rear washer motor | F-29 | ECS rear shock absorber (LH) |
| F-15 | Fuel tank | F-30 | Rear speaker (LH) |
| F-16 | Licence plate lamp (RH) | F-31 } | Body wiring harness (main) and tailgate wiring harness combination <LHD> |
| | | F-32 } | |

2B WIRING HARNESS CONFIGURATION DIAGRAMS

OVERALL WIRING DIAGRAM

L.H. drive vehicles	2B-3
R.H. drive vehicles	2B-3

ENGINE COMPARTMENT **A**

L.H. drive vehicles	2B-4
R.H. drive vehicles	2B-6

ENGINE AND TRANSMISSION **B** 2B-8

DASH PANEL **C**

L.H. drive vehicles	2B-10
R.H. drive vehicles	2B-12

INSTRUMENT PANEL AND FLOOR CONSOLE **D**

L.H. drive vehicles	2B-14
R.H. drive vehicles	2B-16

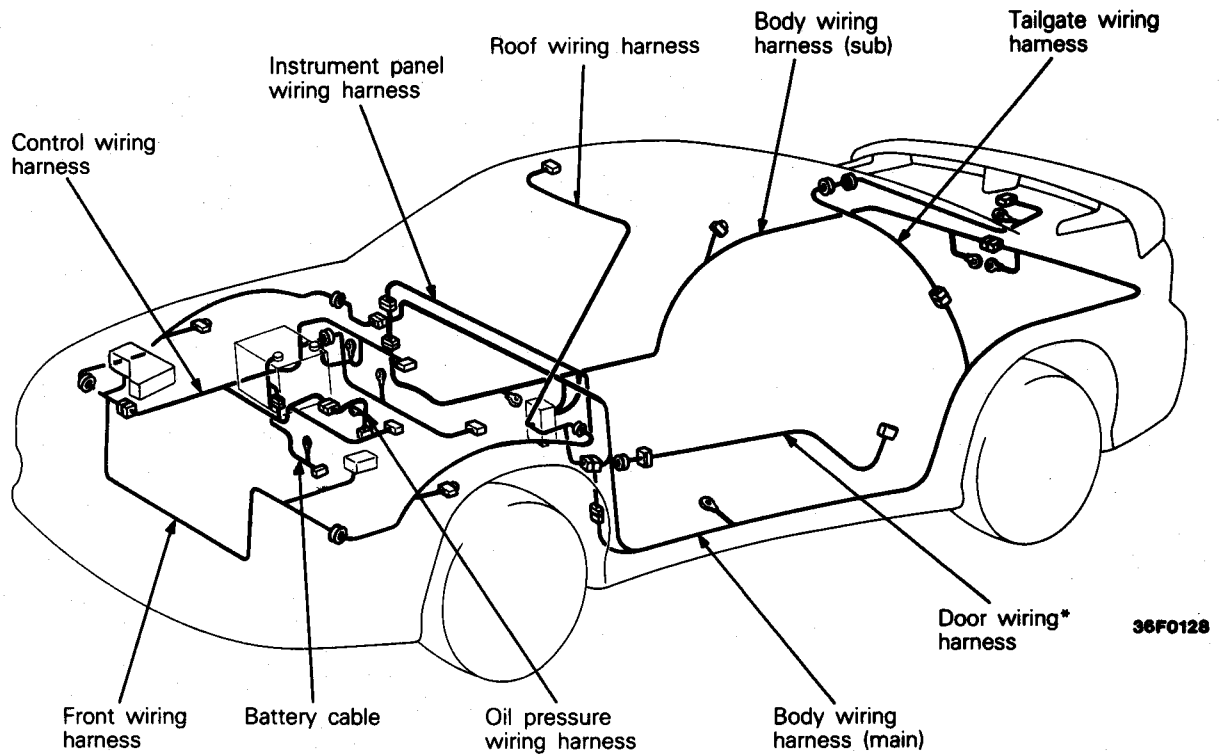
INTERIOR **E**

L.H. drive vehicles	2B-18
R.H. drive vehicles	2B-20

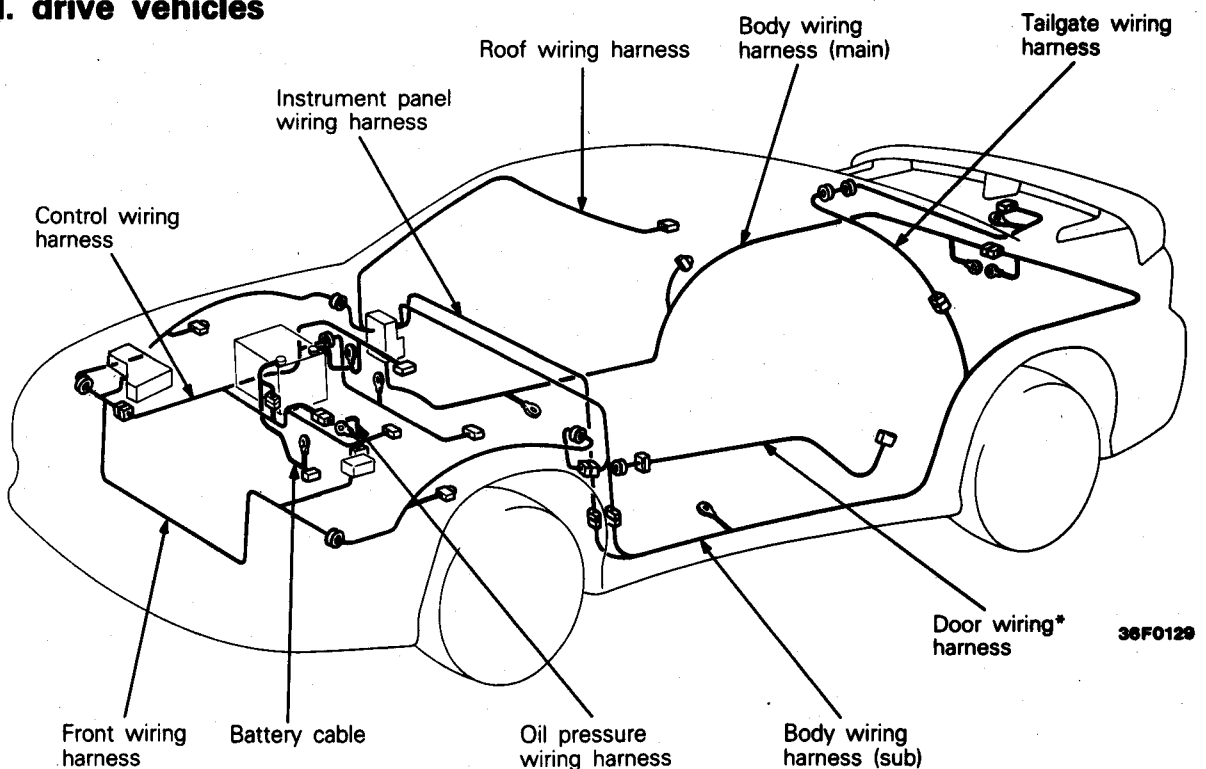
LUGGAGE COMPARTMENT **F** 2B-22

OVERALL WIRING DIAGRAM

L.H. drive vehicles



R.H. drive vehicles

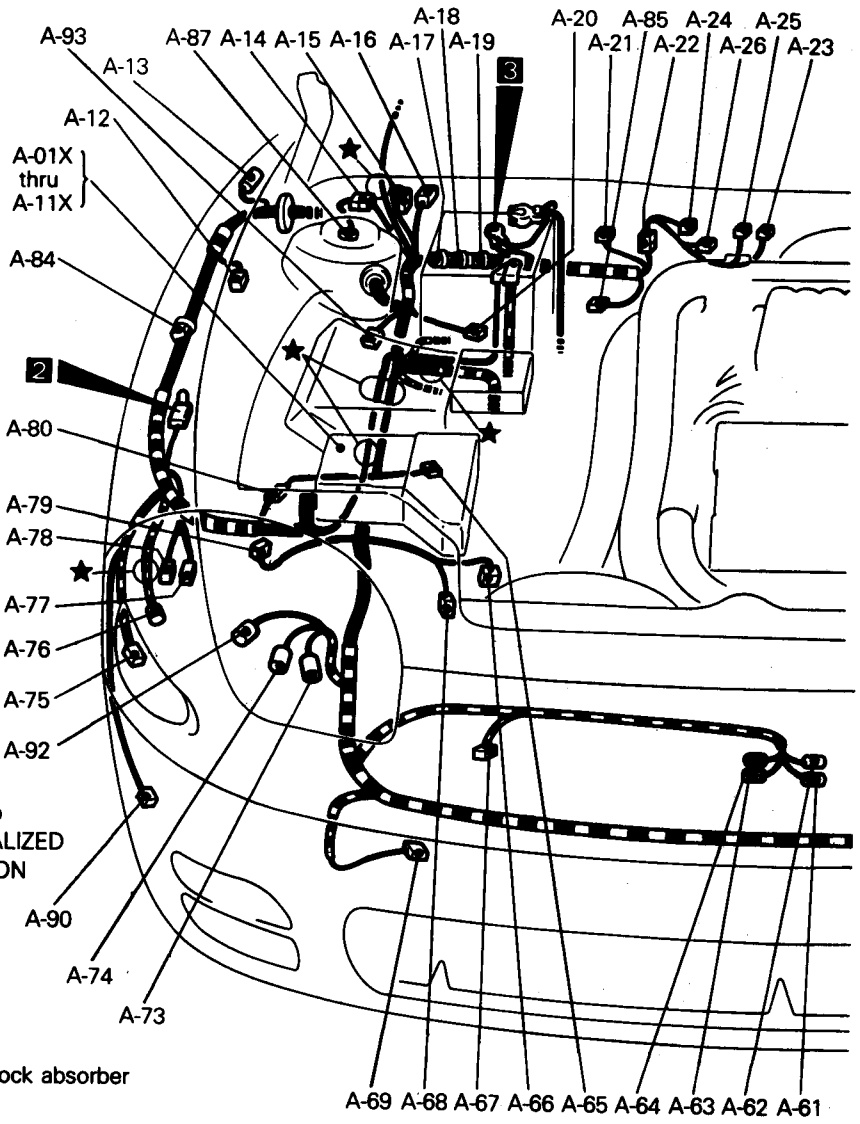
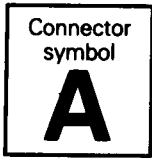


NOTE

- (1) This illustration shows only the major wiring harness.
- (2) *indicates also equipped at the right side.

ENGINE COMPARTMENT

L.H. drive vehicles

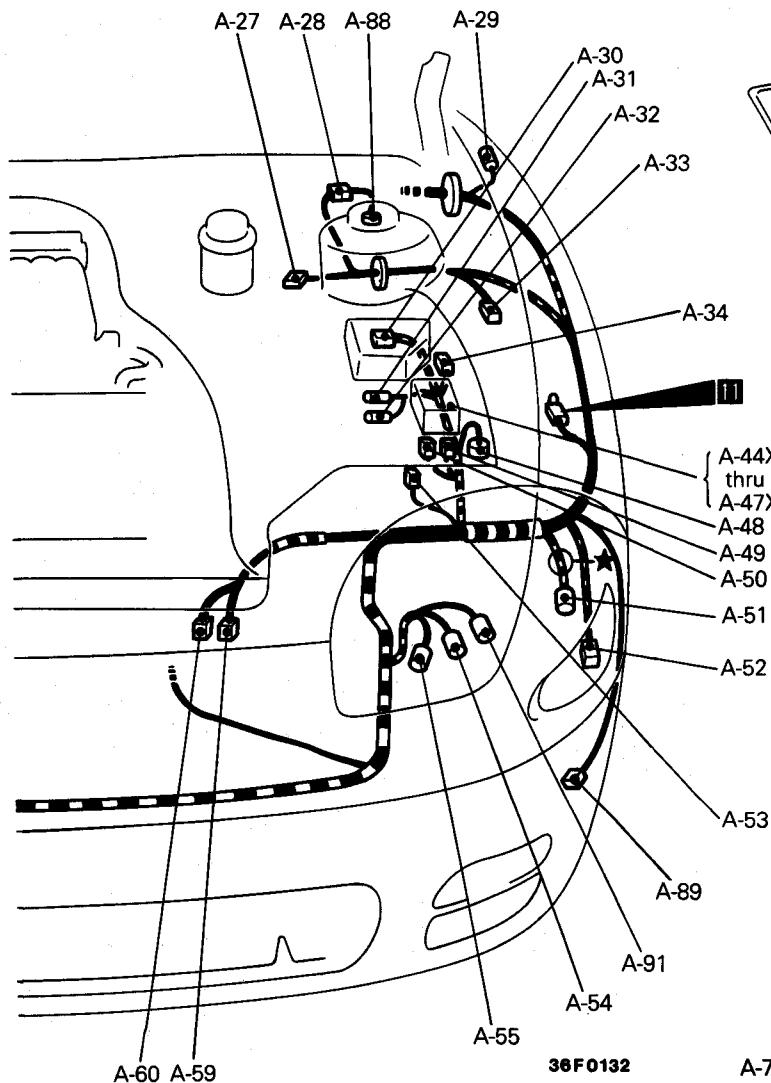


- A-01X Headlamp relay
- A-02X —
- A-03X —
- A-04X Radiator fan motor relay (LO)
- A-05X Tail lamp relay
- A-06X Horn relay
- A-07X Radiator fan motor relay (HI)
- A-08X —
- A-09X Starter relay
- A-10X Alternator relay
- A-11X Storage connector
- A-12 ABS front speed sensor (RH)
- A-13 Side turn signal lamp (RH)
- A-14 Control wiring harness and ECS front shock absorber joint wiring harness (RH) combination
- A-15 Washer fluid level sensor
- A-16 Windshield wiper motor
- A-17 Engine speed detection connector
- A-18 Fuel pump check connector
- A-19 Ignition timing adjustment connector
- A-20 Windshield washer motor
- A-21 Resistor
- A-22 Control wiring harness and solenoid valve wiring harness combination
- A-23 Waste gate solenoid valve
- A-24 Fuel pressure solenoid valve
- A-25 Purge control solenoid valve
- A-26 EGR control solenoid valve
- A-27 Brake fluid level sensor
- A-28 Front wiring harness and ECS front shock absorber joint wiring harness (LH) combination
- A-29 Side turn signal lamp (LH)
- A-30 Auto-cruise vacuum pump
- A-31 } Theft-alarm horn
- A-32 }

Refer to
CENTRALIZED
JUNCTION

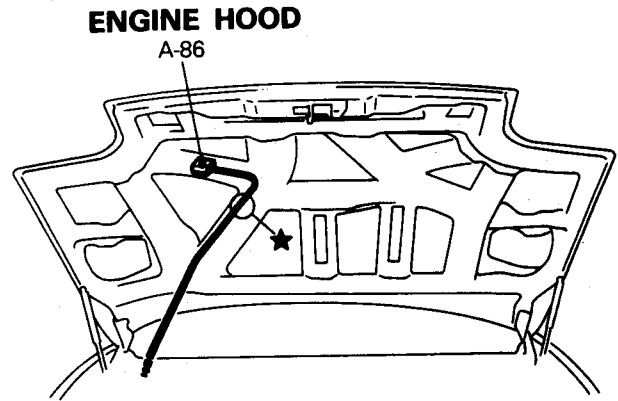
- A-33 ABS front speed sensor (LH)
- A-34 4WS fluid level sensor
- A-35 —
- A-36 Daytime running lamp relay
- A-37 Daytime running lamp control unit
- A-38 } —
- A-43 }
- A-44X Condenser fan motor relay (HI)
- A-45X —
- A-46X Magnetic clutch relay
- A-47X Condenser fan motor relay (LO)
- A-48 Dual pressure switch
- A-49 } A/C relay box
- A-50 }
- A-51 SRS front impact sensor (LH)
- A-52 Front turn signal lamp (LH)

Refer to
CENTRALIZED
JUNCTION



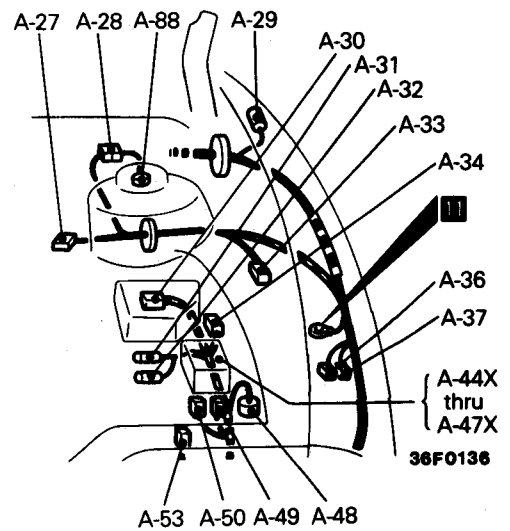
36F0132

- A-60 A-59
- A-53 Inspection lamp switch
- A-54 Headlamp (LH: HI)
- A-55 Headlamp leveling unit (LH)
- A-56 } —
- A-57 } —
- A-58 } —
- A-59 } Condenser fan motor
- A-60 } —
- A-61 thru A-64 } Horn
- A-65 Fuel pump resistor
- A-66 Radiator fan motor
- A-67 Headlamp washer motor
- A-68 Engine coolant level sensor
- A-69 Active aero front venturi skirt
- A-70 } —
- A-71 } —
- A-72 } —
- A-73 Headlamp leveling unit (RH)



16F0174

Vehicles with daytime running lamp

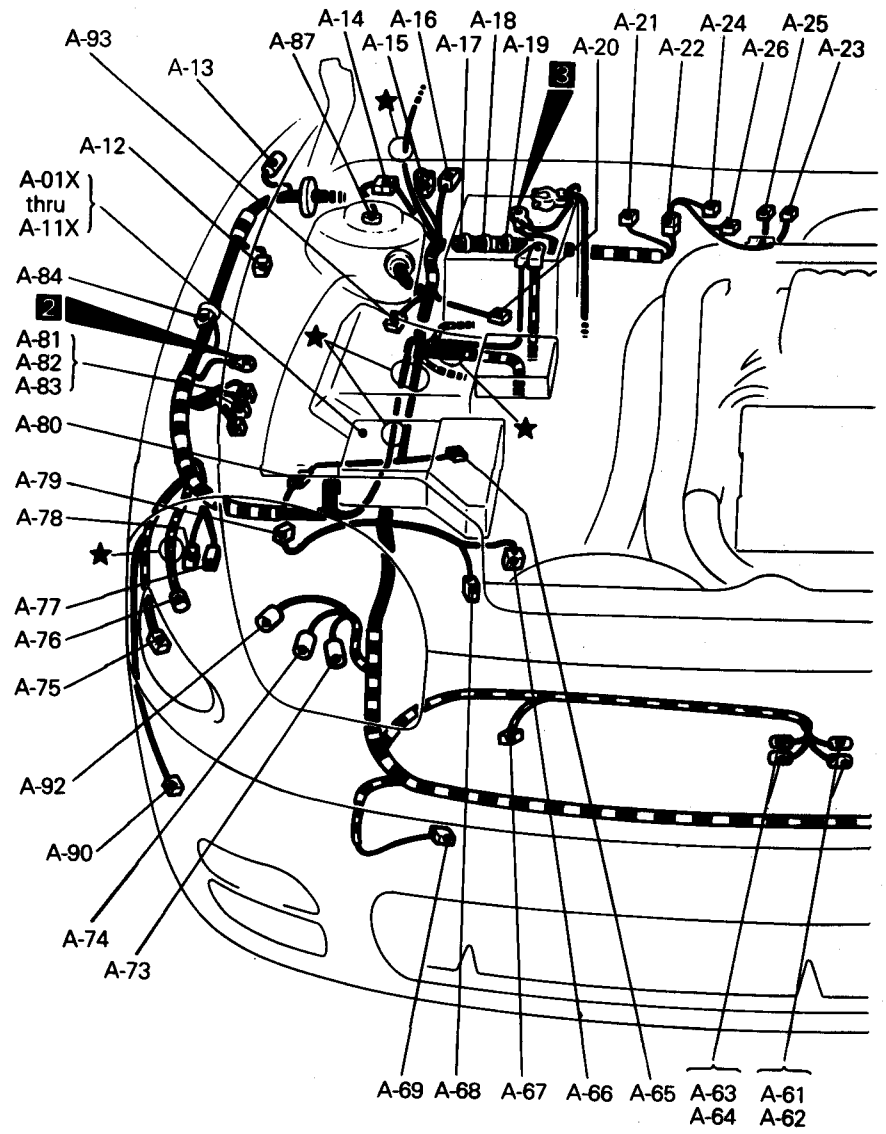
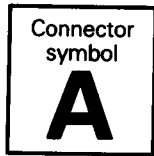


36F0136

- A-74 Headlamp (RH: HI)
- A-75 Front turn signal lamp (RH)
- A-76 SRS front impact sensor (RH)
- A-77 } ABS hydraulic unit
- A-78 } —
- A-79 Hood switch (Vehicles with theft-alarm system)
- A-80 Front wiring harness and control wiring harness combination
- A-81 } —
- A-82 } —
- A-83 } —
- A-84 Diode (for ABS circuit)
- A-85 No connection
- A-86 Inspection lamp
- A-87 ECS front shock absorber (RH)
- A-88 ECS front shock absorber (LH)
- A-89 Position lamp (LH)
- A-90 Position lamp (RH)
- A-91 Headlamp (LH: LO)
- A-92 Headlamp (RH: LO)
- A-93 No connection

ENGINE COMPARTMENT

R.H. drive vehicles

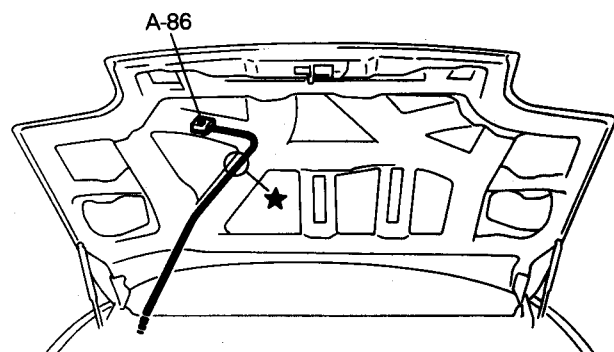
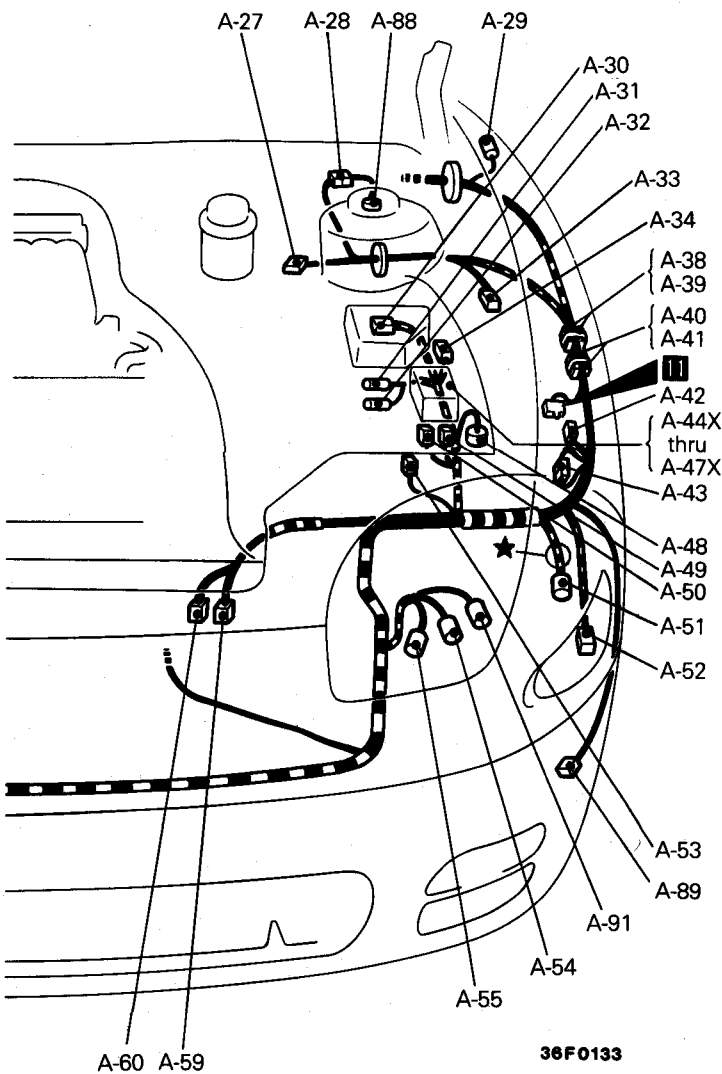


- A-01X Headlamp relay
- A-02X —
- A-03X —
- A-04X Radiator fan motor relay (LO)
- A-05X Tail lamp relay
- A-06X Horn relay
- A-07X Radiator fan motor relay (HI)
- A-08X —
- A-09X Starter relay
- A-10X Alternator relay
- A-11X Storage connector
- A-12 ABS front speed sensor (RH)
- A-13 Side turn signal lamp (RH)
- A-14 Control wiring harness and ECS front shock absorber joint wiring harness (RH) combination
- A-15 Washer fluid level sensor
- A-16 Windshield wiper motor
- A-17 Engine speed detection connector
- A-18 Fuel pump check connector
- A-19 Ignition timing adjustment connector
- A-20 Windshield washer motor
- A-21 Resistor

Refer to
CENTRALIZED
JUNCTION

- A-22 Control wiring harness and solenoid valve wiring harness combination
- A-23 Waste gate solenoid valve
- A-24 Fuel pressure solenoid valve
- A-25 Purge control solenoid valve
- A-26 EGR control solenoid valve
- A-27 Brake fluid level sensor
- A-28 Front wiring harness and ECS front shock absorber joint wiring harness (LH) combination
- A-29 Side turn signal lamp (LH)
- A-30 Auto-cruise vacuum pump
- A-31 } Theft-alarm horn
- A-32 }
- A-33 ABS front speed sensor (LH)
- A-34 4WS fluid level sensor
- A-35 }
- A-36 }
- A-37 }

ENGINE HOOD



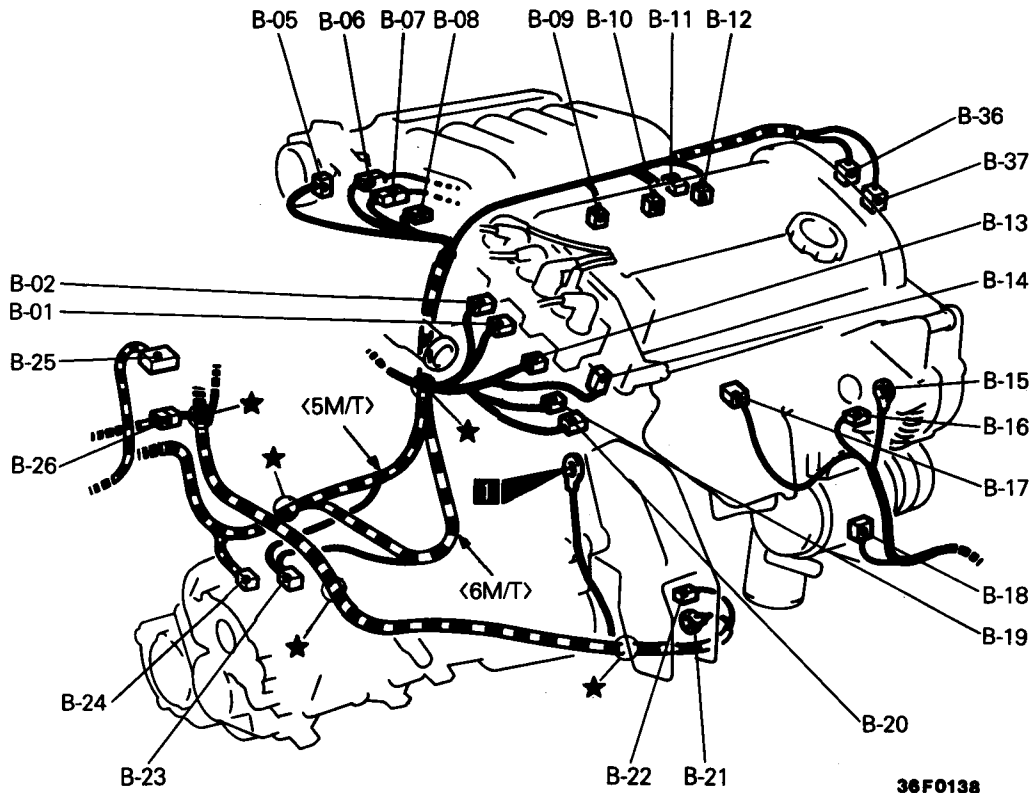
- A-38 } Diode (for dim-dip lamp)
- thru }
- A-41 }
- A-42 Resistor (Vehicles with dim-dip lamp)
- A-43 Joint connector (Vehicles with dim-dip lamp)
- A-44X Condenser fan motor relay (HI)
- A-45X —
- A-46X Magnetic clutch relay
- A-47X Condenser fan motor relay (LO)
- A-48 Dual pressure switch
- A-49 } A/C relay box
- A-50 }
- A-51 SRS front impact sensor (LH)
- A-52 Front turn signal lamp (LH)
- A-53 Inspection lamp switch
- A-54 Headlamp (LH: HI)
- A-55 Headlamp leveling unit (LH)

Refer to
CENTRALIZED
JUNCTION

- A-56 } —
- A-57 }
- A-58 }
- A-59 } Condenser fan motor
- A-60 }
- A-61 } Horn
- thru }
- A-64 }
- A-65 } Fuel pump resistor
- A-66 } Radiator fan motor
- A-67 } Headlamp washer motor
- A-68 } Engine coolant level sensor
- A-69 } Active aero front venturi skirt
- A-70 } —
- A-71 }
- A-72 }
- A-73 } Headlamp leveling unit (RH)
- A-74 } Headlamp (RH: HI)
- A-75 } Front turn signal lamp (RH)
- A-76 } SRS front impact sensor (RH)
- A-77 } ABS hydraulic unit
- A-78 }
- A-79 } Hood switch (Vehicles with theft-alarm system)
- A-80 } Front wiring harness and control wiring harness combination
- A-81 } Dim-dip lamp relay 1 or no connection
- A-82 } Dim-dip lamp relay 2,3 or jumper connector
- A-83 }
- A-84 } Diode (for ABS circuit)
- A-85 } —
- A-86 } Inspection lamp
- A-87 } ECS front shock absorber (RH)
- A-88 } ECS front shock absorber (LH)
- A-89 } Position lamp (LH)
- A-90 } Position lamp (RH)
- A-91 } Headlamp (LH: LO)
- A-92 } Headlamp (RH: LO)
- A-93 } No connection

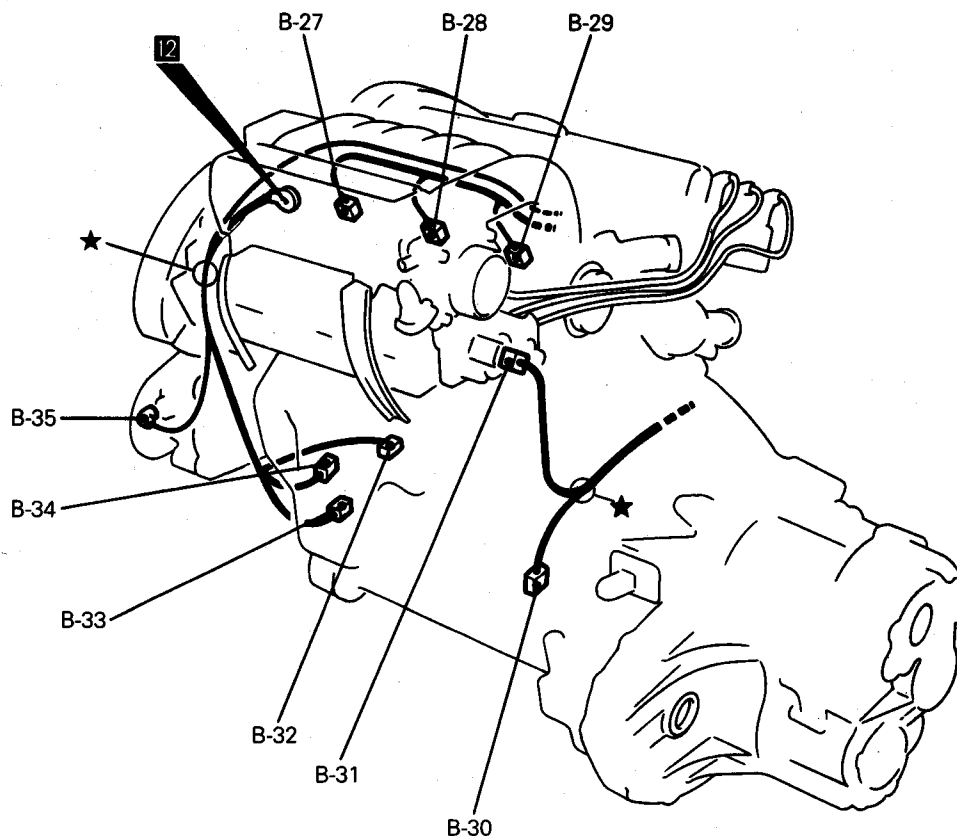
ENGINE AND TRANSMISSION

Connector symbol
B



36F0138

- | | | | |
|----------|--|-------------------|--------------------|
| B-01 | Engine coolant temperature gauge unit | B-09 | Injector No. 5 |
| B-02 | Engine coolant temperature sensor | B-10 | Injector No. 3 |
| B-03 } — | | B-11 | Oxygen sensor (LH) |
| B-04 } — | | B-12 | Injector No. 1 |
| B-05 | Throttle position sensor | B-13 | Ignition coil |
| B-06 | Control wiring harness and oil pressure wiring harness combination | B-14 | Noise capacitor |
| B-07 | Control wiring harness and injector wiring harness combination | B-15 } Alternator | |
| B-08 | Detonation sensor | B-16 } | |
| | | B-17 | Oxygen sensor (RH) |
| | | B-18 | Magnetic clutch |

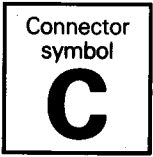


36F0034

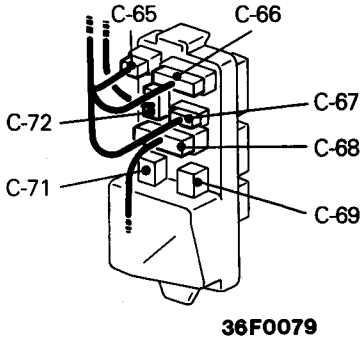
- | | | |
|-------------------------|------|--|
| B-19 } Power transistor | B-28 | Injector No. 4 |
| B-20 } Power transistor | B-29 | Injector No. 6 |
| B-21 } Starter motor | B-30 | Speed sensor |
| B-22 } Starter motor | B-31 | Idle speed control servo (stepper motor) |
| B-23 | B-32 | Engine oil level sensor |
| B-23 | B-33 | Oil pressure gauge unit |
| B-24 | B-34 | Oil pressure switch |
| B-24 | B-35 | Power steering oil pressure switch |
| B-25 | B-36 | Cam position sensor |
| B-25 | B-37 | Crank angle sensor |
| B-26 | | |
| B-26 | | |
| B-27 | | |

DASH PANEL

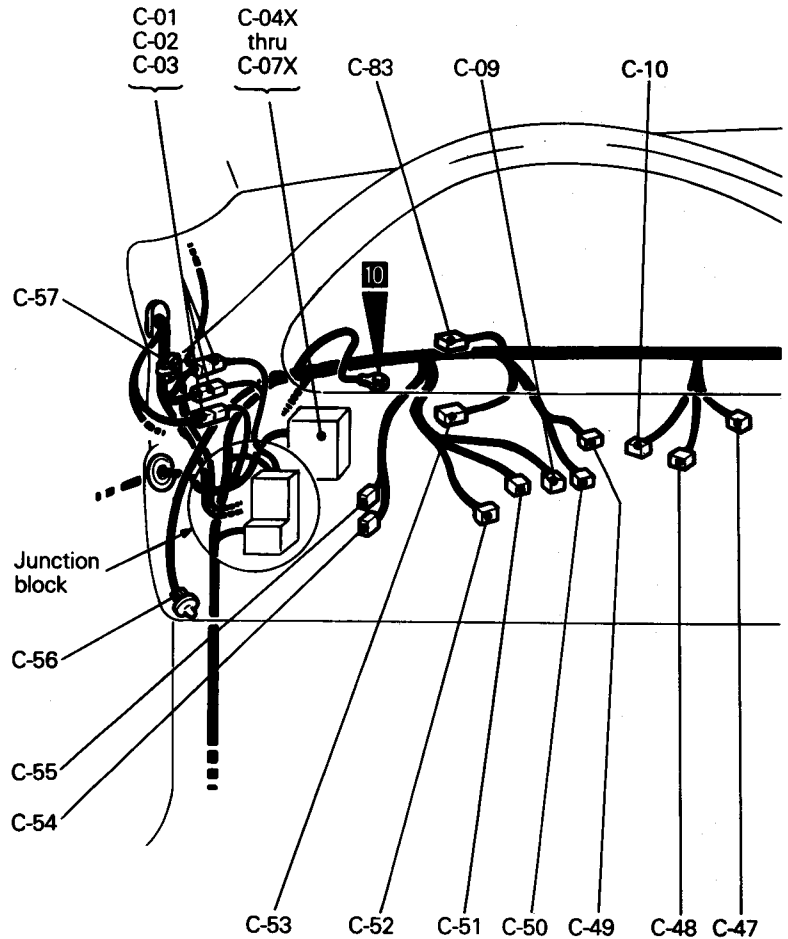
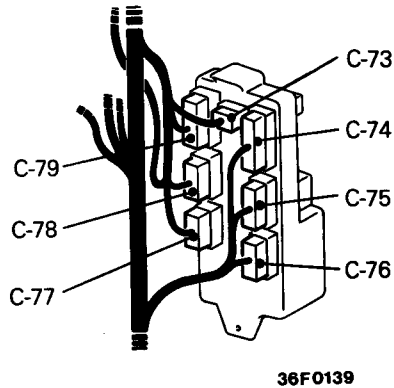
L.H. drive vehicles



JUNCTION BLOCK (Front side)



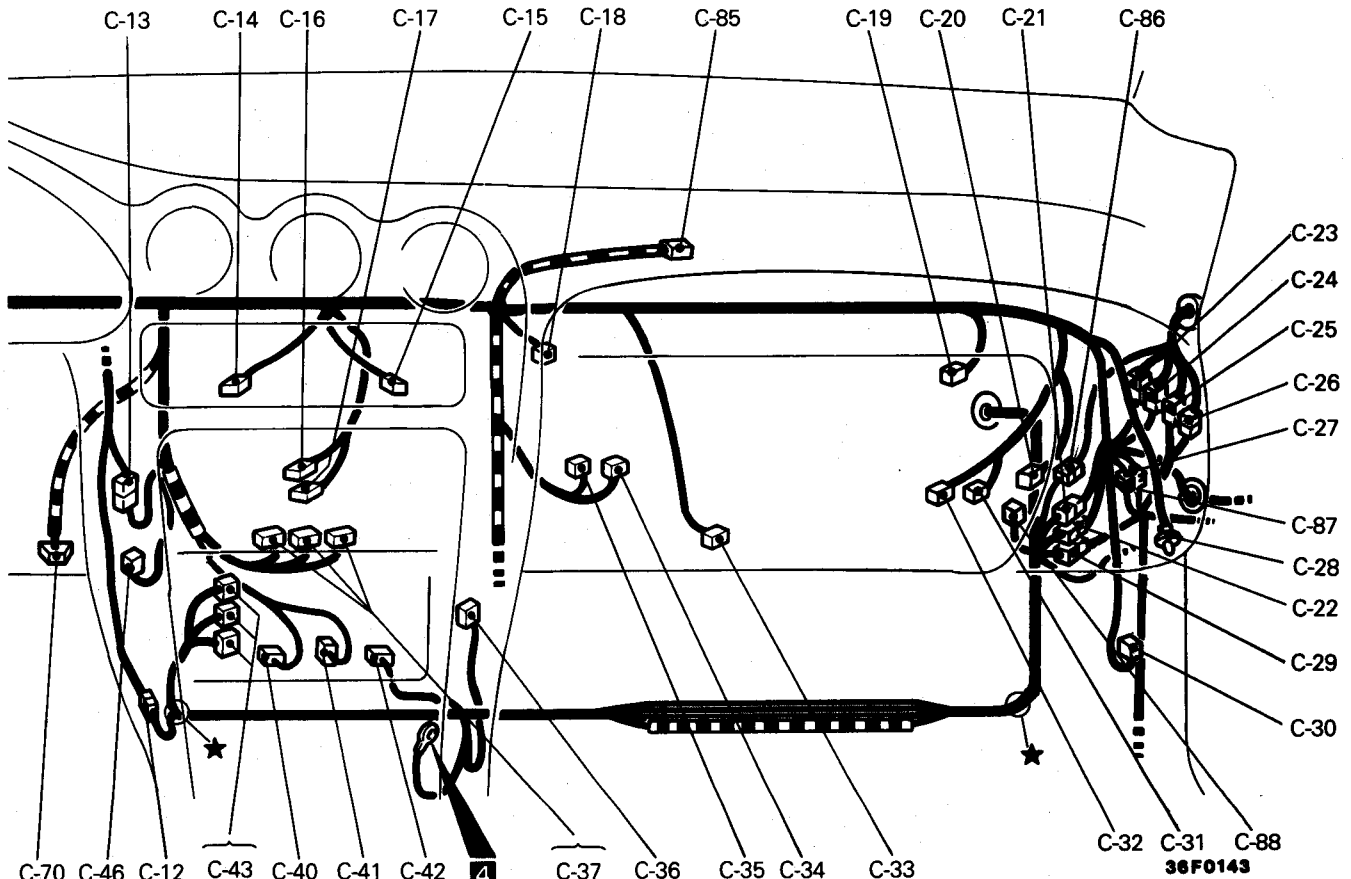
(Rear side)



- C-01 } Body wiring harness (main) and front wiring harness
- C-02 } combination
- C-03 }
- C-04X Door lock power relay
- C-05X Rear fog lamp relay
- C-06X Defogger relay
- C-07X Power window relay
- C-08 —
- C-09 } Column switch
- C-10 }
- C-11 —
- C-12 Control wiring harness and instrument panel wiring harness combination
- C-13 Body wiring harness (main) and instrument panel wiring harness combination
- C-14 Blend air damper control motor
- C-15 Mode selection damper control motor
- C-16 } A/C control panel
- C-17 }

Refer to
CENTRALIZED
JUNCTION

- C-18 Power transistor (for A/C circuit)
- C-19 Air-inlet sensor
- C-20 Air selection damper control motor
- C-21 } Body wiring harness (main) and control wiring harness
- C-22 } combination
- C-23 } Body wiring harness (main) and front wiring harness
- C-24 } combination
- C-25 } Body wiring harness (sub) and front wiring harness
- C-26 } combination
- C-27 Body wiring harness (main) and body wiring harness (sub) combination
- C-28 Foot lamp (RH)
- C-29 Body wiring harness (sub) and control wiring harness combination
- C-30 Auto-cruise control unit
- C-31 Blower motor
- C-32 Blower motor relay (HI)
- C-33 A/C compressor lock controller
- C-34 Air-thermo sensor



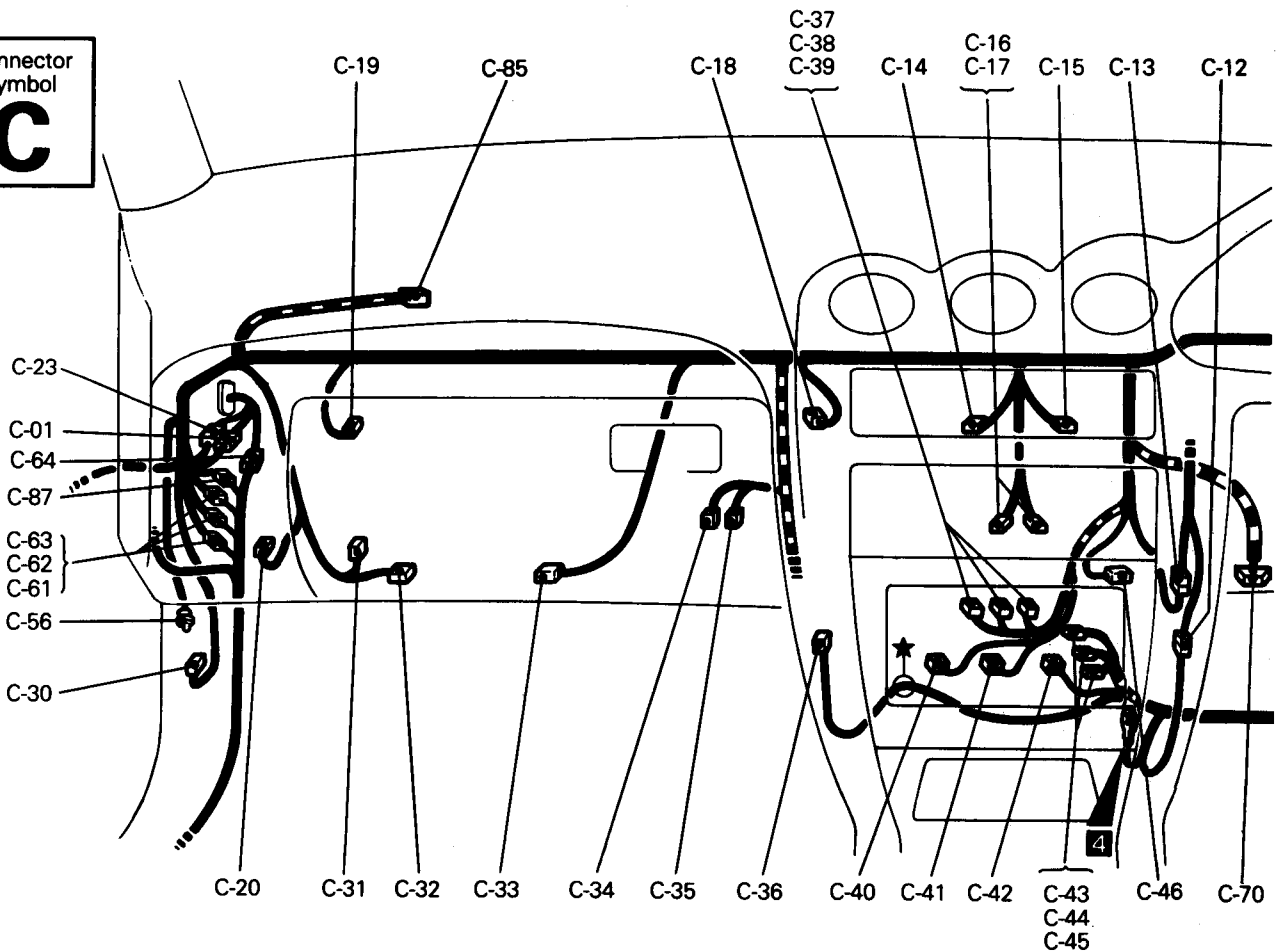
- | | | | | |
|------|-----------------------------------|------|--|---|
| C-35 | Engine coolant temperature sensor | C-58 | thru | — |
| C-36 | Engine control relay | C-64 | — | |
| C-37 | A/C control unit | C-65 | Front wiring harness and junction block combination | |
| C-38 | | C-66 | | |
| C-39 | | C-67 | | |
| C-40 | Lighting monitor buzzer | C-68 | Instrument panel adapter wiring harness and junction block combination | |
| C-41 | Headlamp washer relay | C-69 | Theft-alarm horn relay | |
| C-42 | Engine oil level relay | C-70 | Diagnosis connector | |
| C-43 | Engine control unit | C-71 | Blower motor relay | |
| C-44 | | C-72 | Roof wiring harness and junction block combination | |
| C-45 | | C-73 | Body wiring harness (main) and junction block combination | |
| C-46 | Auto-cruise control relay | C-79 | | |
| C-47 | Steering wheel angle speed sensor | C-80 | | — |
| C-48 | Clock spring | C-81 | — | |
| C-49 | No connection | C-82 | — | |
| C-50 | Stop lamp switch | C-83 | No connection | |
| C-51 | Key reminder switch | C-84 | — | |
| C-52 | Ignition switch | C-85 | Air bag module (Passenger's side) | |
| C-53 | Clutch pedal switch | C-86 | Front wiring harness and control wiring harness combination | |
| C-54 | ETACS control unit | C-87 | Body wiring harness (main) and body wiring harness (sub) combination | |
| C-55 | | C-88 | No connection | |
| C-56 | Foot lamp (LH) | | | |
| C-57 | Diode (for headlamp circuit) | | | |

36F0143

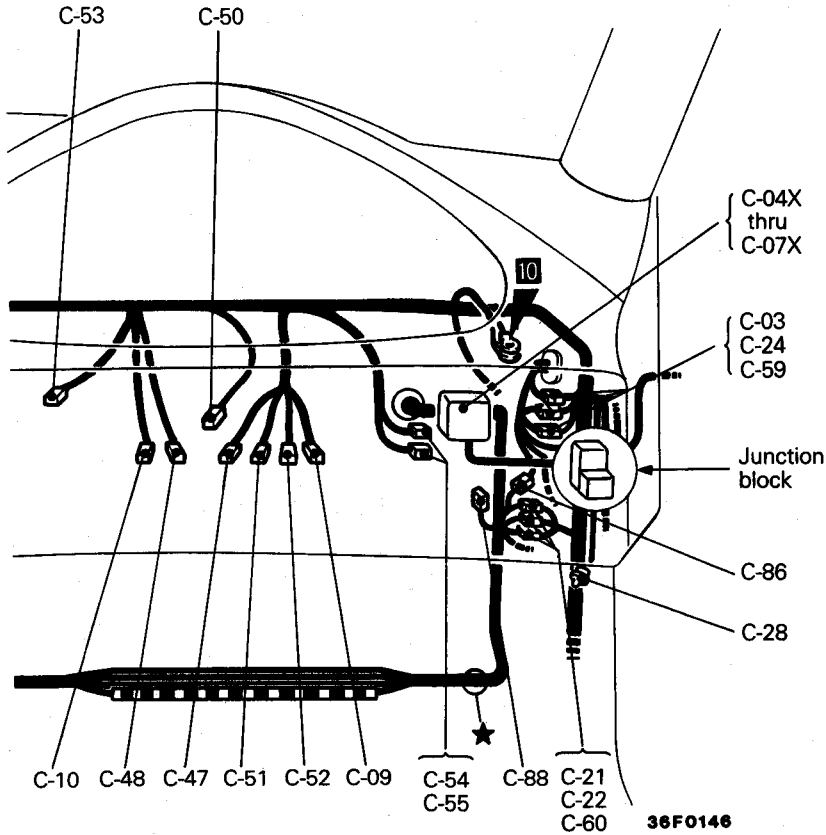
DASH PANEL

R.H. drive vehicles

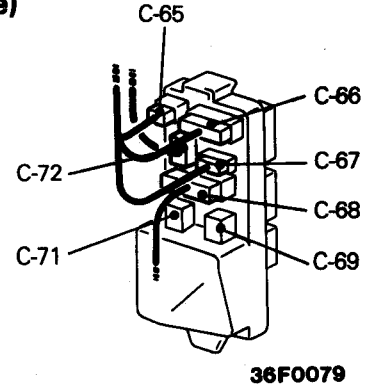
Connector symbol
C



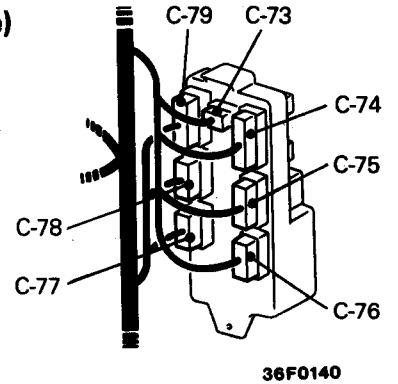
- | | | | | |
|--------|--|---------------------------------------|--------|---|
| C-01 | Body wiring harness (main) and front wiring harness combination | | C-19 | Air-inlet sensor |
| C-02 | — | | C-20 | Air selection damper control motor |
| C-03 | Body wiring harness (main) and front wiring harness combination | | C-21 } | Body wiring harness (main) and control wiring harness combination |
| C-04X | Door lock power relay | } Refer to
CENTRALIZED
JUNCTION | C-22 } | |
| C-05X | Rear fog lamp relay | | C-23 } | Body wiring harness (main) and front wiring harness combination |
| C-06X | Defogger relay | | C-24 } | Body wiring harness (main) and front wiring harness combination |
| C-07X | Power window relay | | C-25 } | — |
| C-08 | — | | C-26 } | — |
| C-09 } | Column switch | | C-27 } | — |
| C-10 } | | | C-28 | Foot lamp (RH) |
| C-11 | — | | C-29 | — |
| C-12 | Control wiring harness and instrument panel wiring harness combination | | C-30 | Auto-cruise control unit |
| C-13 | Body wiring harness (main) and instrument panel wiring harness combination | | C-31 | Blower motor |
| C-14 | Blend air damper control motor | | C-32 | Blower motor relay (HI) |
| C-15 | Mode selection damper control motor | | C-33 | A/C compressor lock controller |
| C-16 } | A/C control panel | | C-34 | Air-thermo sensor |
| C-17 } | | | C-35 | Engine coolant temperature sensor |
| C-18 | Power transistor (for A/C circuit) | | C-36 | Engine control relay |
| | | | C-37 } | A/C control unit |
| | | | C-38 } | |
| | | | C-39 } | |



**JUNCTION BLOCK
(Front side)**



(Rear side)

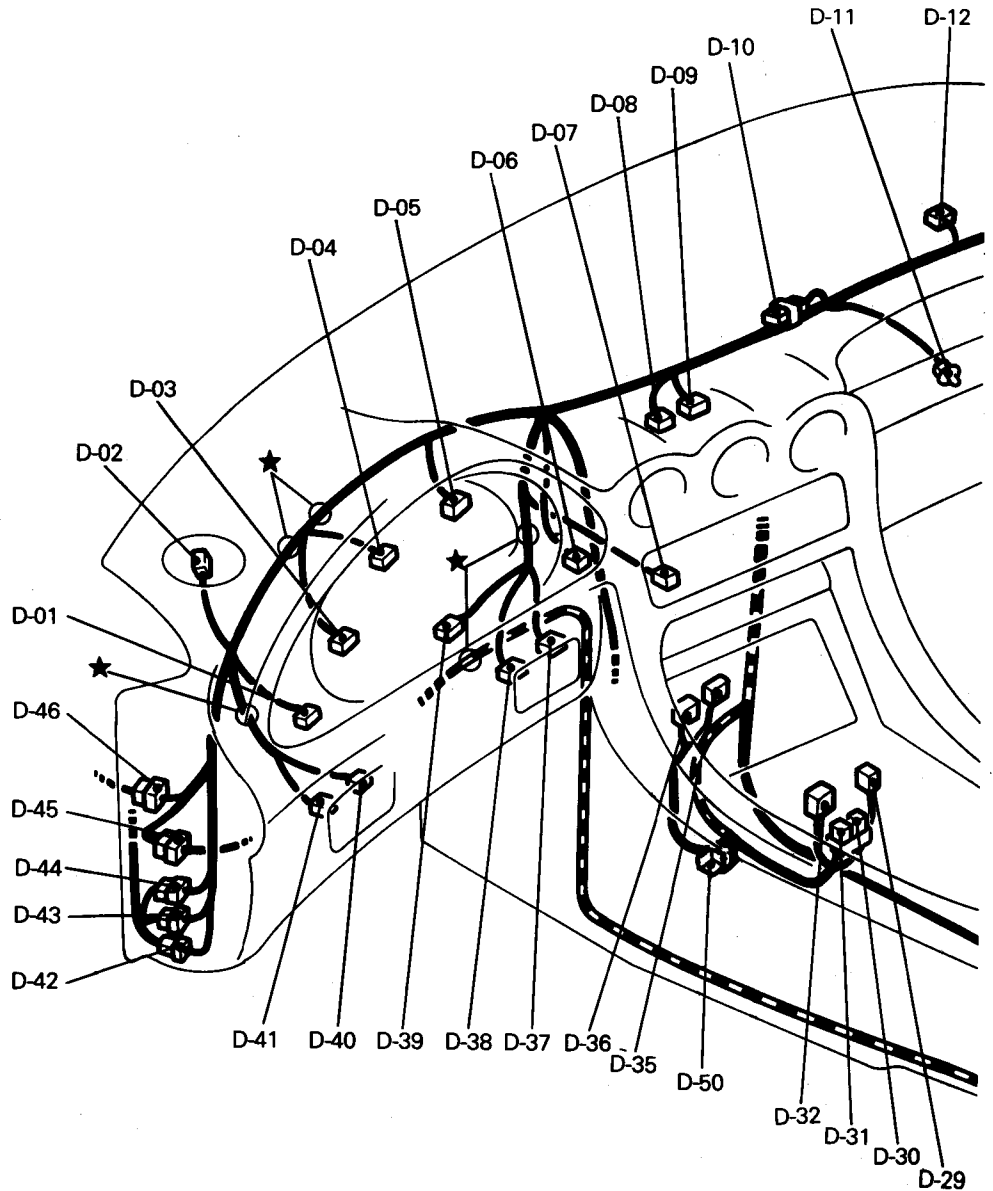
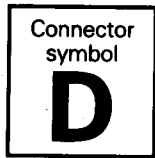


- C-40 Lighting monitor buzzer
- C-41 Headlamp washer relay
- C-42 Engine oil level relay
- C-43 } Engine control unit
- C-44 }
- C-45 }
- C-46 Auto-cruise control relay
- C-47 Steering wheel angle speed sensor
- C-48 Clock spring
- C-49 —
- C-50 Stop lamp switch
- C-51 Key reminder switch
- C-52 Ignition switch
- C-53 Clutch pedal switch
- C-54 } ETACS control unit
- C-55 }
- C-56 Foot lamp (LH)
- C-57 } —
- C-58 }
- C-59 Body wiring harness (main) and front wiring harness combination
- C-60 Body wiring harness (main) and control wiring harness combination
- C-61 } Body wiring harness (main) and body wiring harness (sub) combination
- C-62 }
- C-63 }

- C-64 Body wiring harness (sub) and front wiring harness combination
- C-65 } Front wiring harness and junction block combination
- C-66 }
- C-67 }
- C-68 Instrument panel adapter wiring harness and junction block combination
- C-69 Theft-alarm horn relay
- C-70 Diagnosis connector
- C-71 Blower motor relay
- C-72 Roof wiring harness and junction block combination
- C-73 } Body wiring harness (main) and junction block combination
- C-74 }
- C-75 }
- C-76 }
- C-77 }
- C-78 }
- C-79 } —
- C-80 }
- C-81 }
- C-82 }
- C-83 }
- C-84 }
- C-85 Air bag module (Passenger's side)
- C-86 Front wiring harness and control wiring harness combination
- C-87 Body wiring harness (main) and body wiring harness (sub) combination
- C-88 No connection

INSTRUMENT PANEL AND FLOOR CONSOLE

L.H. drive vehicles



D-01 Rear fog lamp switch

D-02 Front speaker (LH)

D-03

D-04 } Combination meter

D-05 }

D-06 Defogger switch and ECS switch

D-07 Hazard switch

D-08 Clock

D-09 Combination gauge

D-10 Diode (for 4WS fluid level warning lamp circuit)

D-11 Glove box lamp

D-12 Photo sensor

D-13 Front speaker (RH)

D-14 Glove box lamp switch

D-15 Instrument panel wiring harness and control wiring harness combination

D-16 Instrument panel wiring harness and body wiring harness (sub) combination

D-17 Ashtray illumination lamp

D-18 } Cigarette lighter

D-19 }

D-20 Cigarette lighter illumination lamp

D-21 Power seat switch

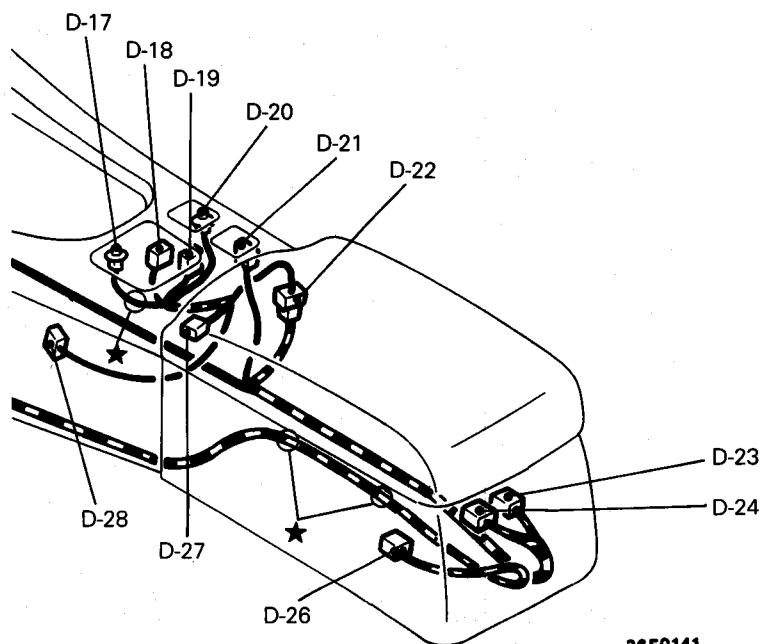
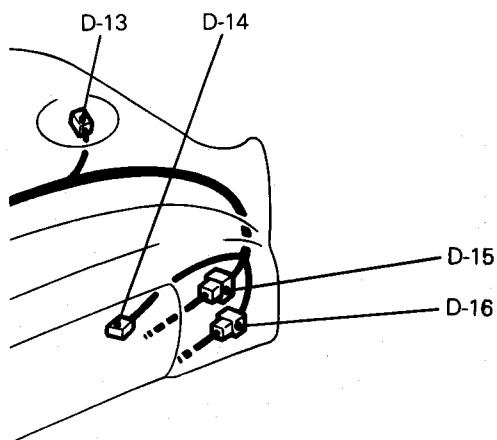
D-22 Body wiring harness (main) and console wiring harness combination

D-23 } SRS diagnosis unit

D-24 }

D-25 —

D-26 SRS diagnosis unit

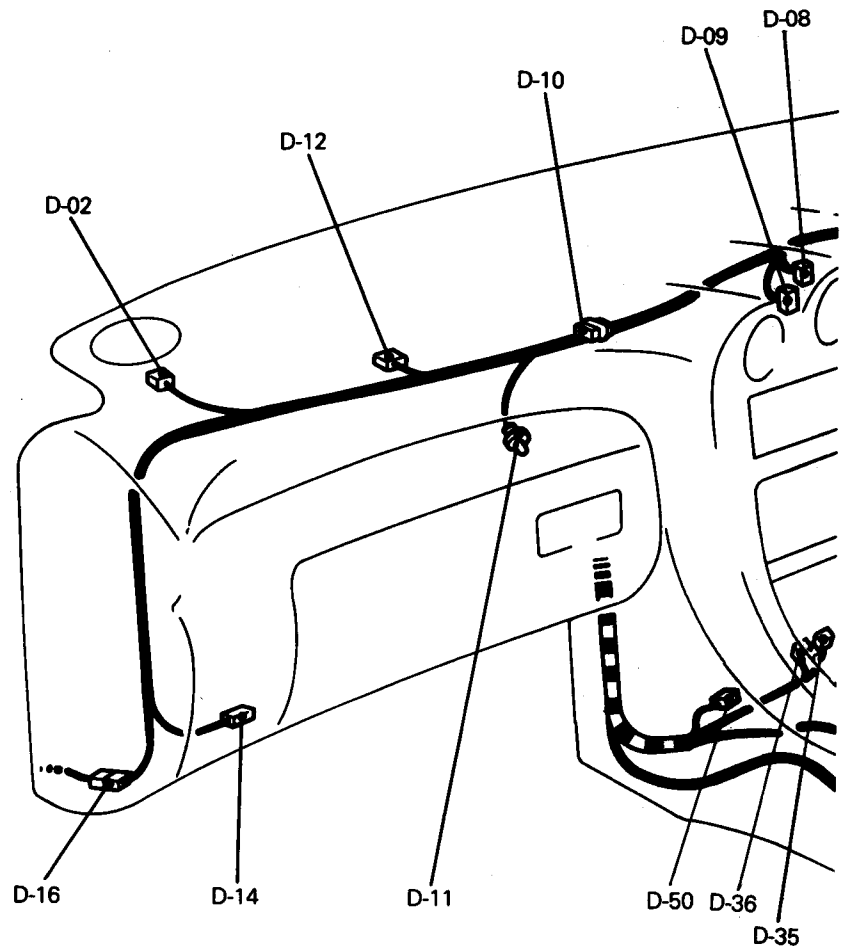
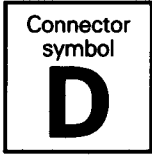


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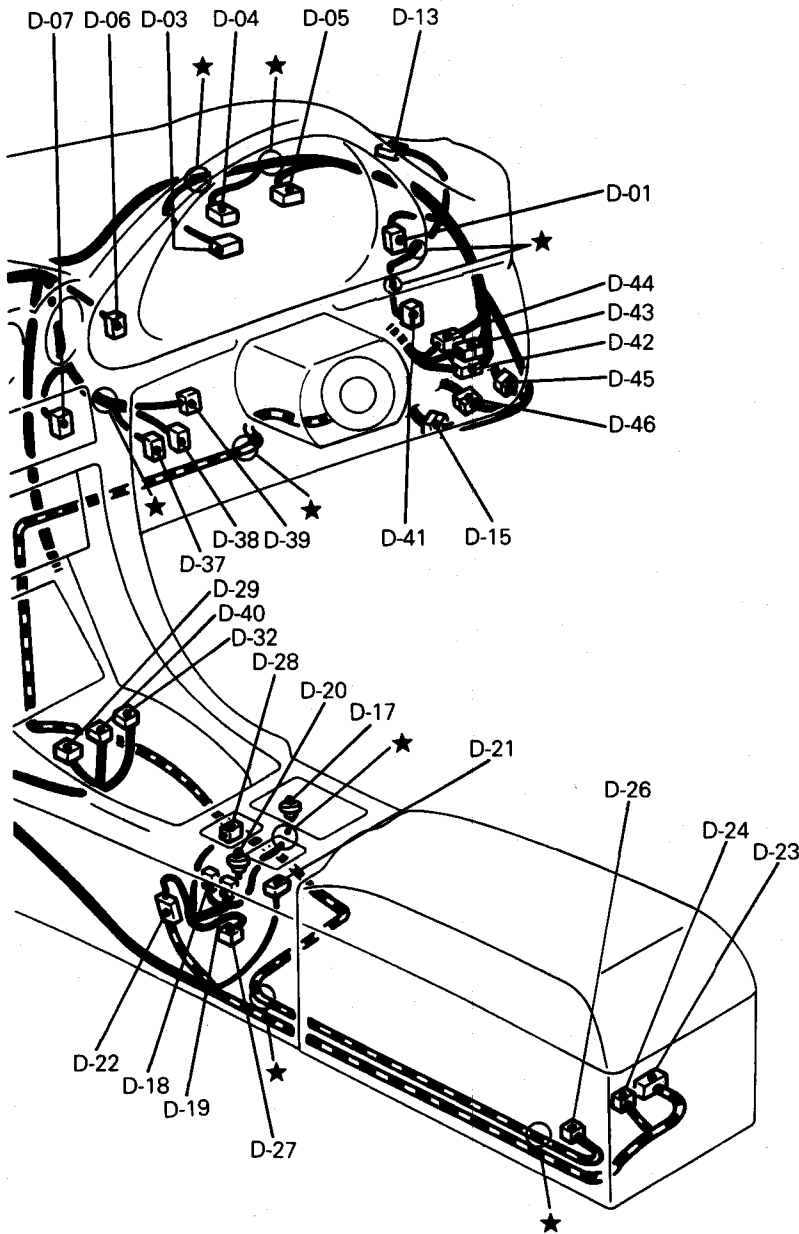
- | | | | |
|------------------|------------------------------|------------------|--|
| D-27 | ABS G sensor | D-40 | Remote controlled mirror switch |
| D-28 | Parking brake switch | D-41 | Rheostat |
| D-29 | Active aero switch | D-42 | Instrument panel wiring harness and body wiring harness (main) combination |
| D-30 }
D-31 } | Accessory socket | D-43 }
D-44 } | |
| D-32 | Auto-cruise main switch | D-45 | |
| D-33 | — | D-46 | Instrument panel wiring harness and front wiring harness combination |
| D-34 | — | D-47 }
D-48 } | — |
| D-35 }
D-36 } | Radio and tape player | D-49 } | |
| D-37 | Rear wiper and washer switch | D-50 | No connection |
| D-38 | Headlamp leveling switch | | |
| D-39 | No connection | | |

INSTRUMENT PANEL AND FLOOR CONSOLE

R.H. drive vehicles

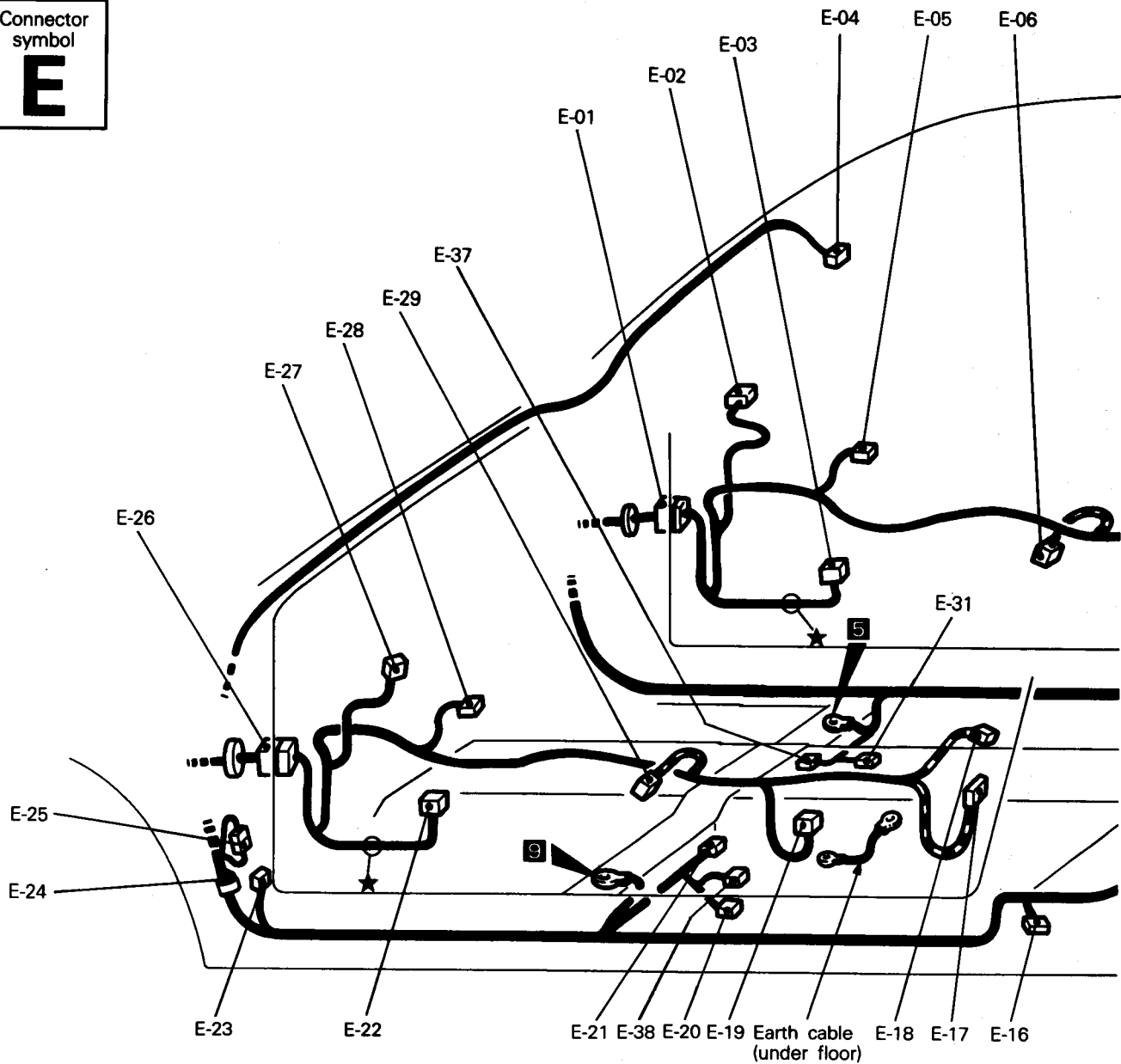


- | | | | | |
|----------------------------|--|--------------------------------|---|-------------------|
| D-01 | Rear fog lamp switch | D-15 | Instrument panel wiring harness and control wiring harness combination | |
| D-02 | Front speaker (LH) | D-16 | Instrument panel wiring harness and body wiring harness (sub) combination | |
| D-03 }
D-04 }
D-05 } | Combination meter | D-17 | Ashtray illumination lamp | |
| D-06 | | Defogger switch and ECS switch | D-18 }
D-19 } | Cigarette lighter |
| D-07 | | Hazard switch | D-20 | |
| D-08 | Clock | D-21 | Power seat switch | |
| D-09 | Combination gauge | D-22 | Body wiring harness (main) and console wiring harness combination | |
| D-10 | Diode (for 4WS fluid level warning lamp circuit) | D-23 }
D-24 } | SRS diagnosis unit | |
| D-11 | Glove box lamp | D-25 | | — |
| D-12 | Photo sensor | D-26 | SRS diagnosis unit | |
| D-13 | Front speaker (RH) | | | |
| D-14 | Glove box lamp switch | | | |

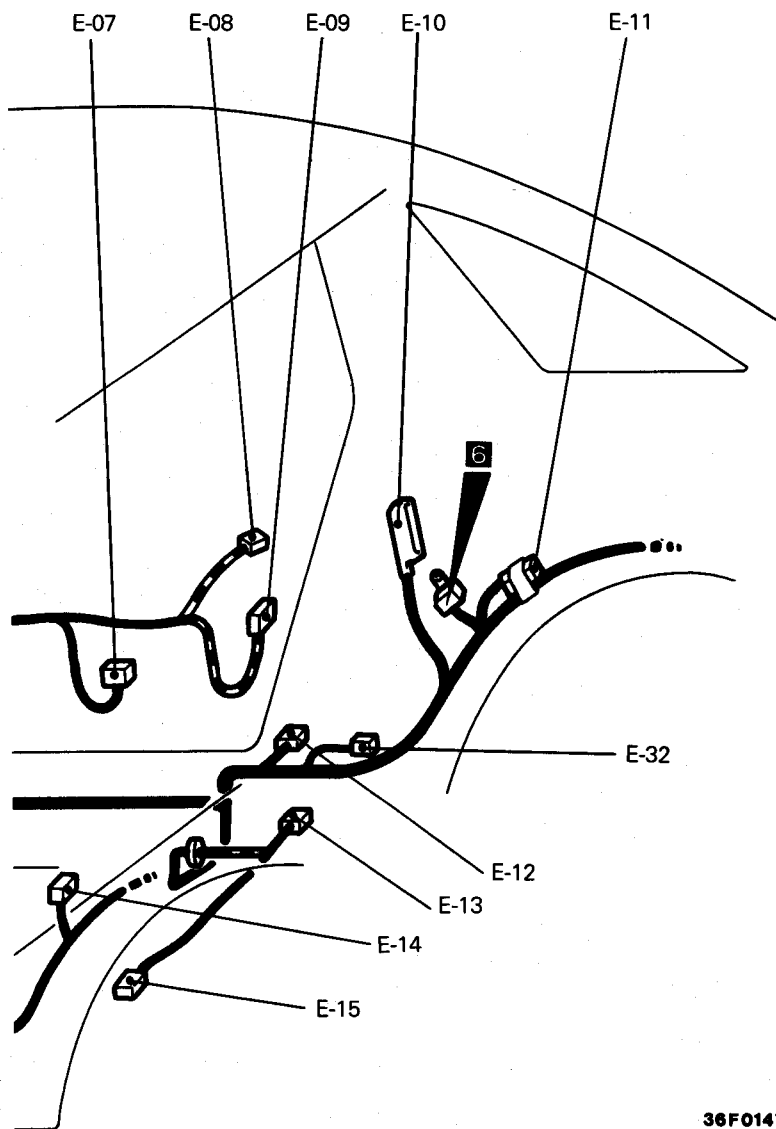


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- | | | | |
|------|------------------------------|------|---|
| D-27 | ABS G sensor | D-40 | Remote controlled mirror switch |
| D-28 | Parking brake switch | D-41 | Rheostat |
| D-29 | Active aero switch | D-42 | Instrument panel wiring harness and body wiring harness (main) combination |
| D-30 | — | D-43 | |
| D-31 | — | D-44 | |
| D-32 | Auto-cruise main switch | D-45 | Instrument panel wiring harness and instrument panel adapter wiring harness combination |
| D-33 | — | D-46 | Instrument panel wiring harness and front wiring harness combination |
| D-34 | — | D-47 | — |
| D-35 | Radio and tape player | D-48 | |
| D-36 | | D-49 | |
| D-37 | Rear wiper and washer switch | D-50 | No connection |
| D-38 | Headlamp leveling switch | | |
| D-39 | No connection | | |

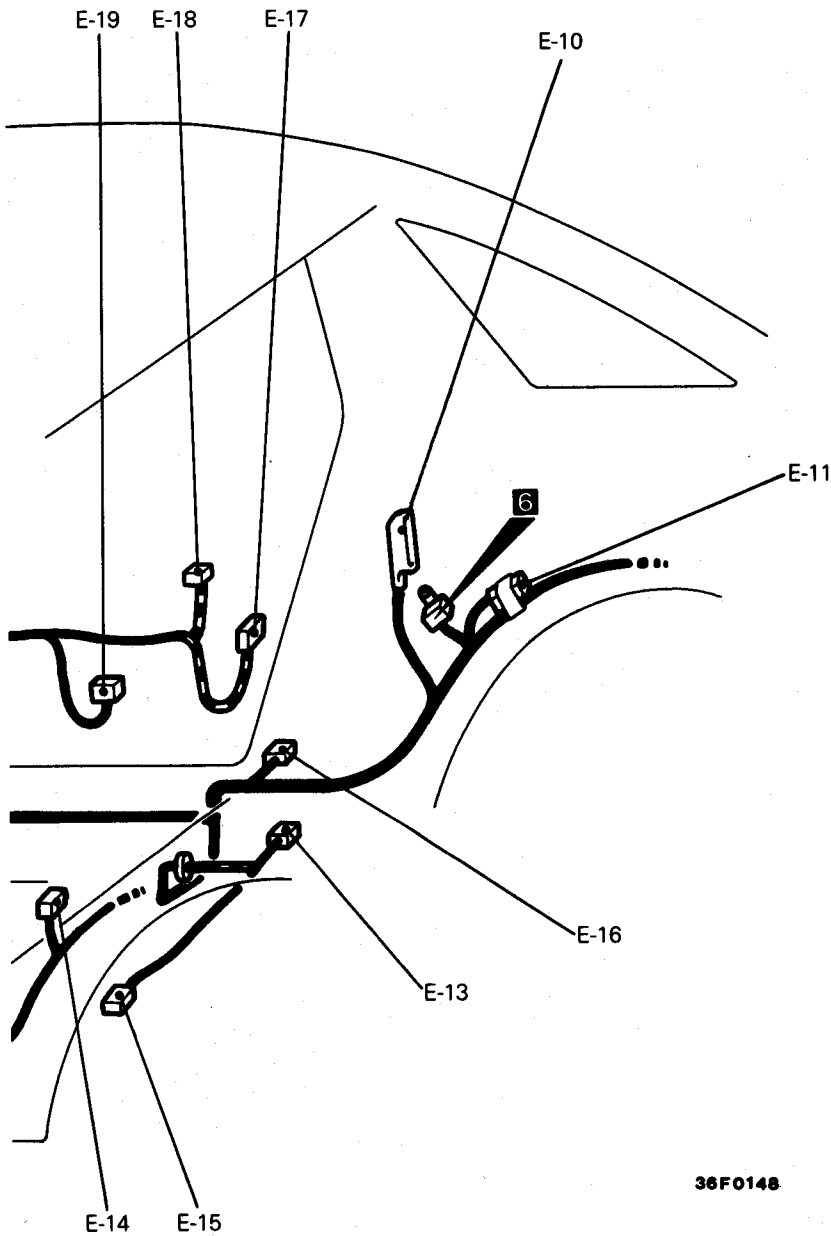
INTERIOR**L.H. drive vehicles**Connector
symbol**E**

E-01	Body wiring harness (main) and door wiring harness (RH) combination	E-09	Door lock actuator (Passenger's side)
E-02	Door mirror (Passenger's side)	E-10	ABS control unit
E-03	Door speaker (Passenger's side)	E-11	ABS resistor
E-04	Room lamp	E-12	Door switch (Passenger's side)
E-05	Power window sub switch	E-13	ABS rear speed sensor (RH)
E-06	Power window motor (Passenger's side)	E-14	Rear intermittent wiper relay
E-07	Door lamp (Passenger's side)	E-15	ABS rear speed sensor (LH)
E-08	Door key cylinder unlock switch (Passenger's side)	E-16	Door switch (Driver's side)
		E-17	Door lock actuator (Driver's side)



36F0147

- | | | | |
|------|---|------|------------------------------------|
| E-18 | Door key cylinder unlock switch (Driver's side)
<Vehicles with theft-alarm system> | E-27 | Door mirror (Driver's side) |
| E-19 | Door lamp (Driver's side) | E-28 | Power window main switch |
| E-20 | Power seat assembly | E-29 | Power window motor (Driver's side) |
| E-21 | ECS G sensor | E-30 | — |
| E-22 | Door speaker (Driver's side) | E-31 | } No connection |
| E-23 | Turn signal and hazard flasher unit | E-32 | |
| E-24 | Diode (for MPI circuit) | E-33 | } thru |
| E-25 | Jumper connector | E-36 | |
| E-26 | Body wiring harness (main) and door wiring harness
(LH) combination | E-37 | } No connection |
| | | E-38 | |

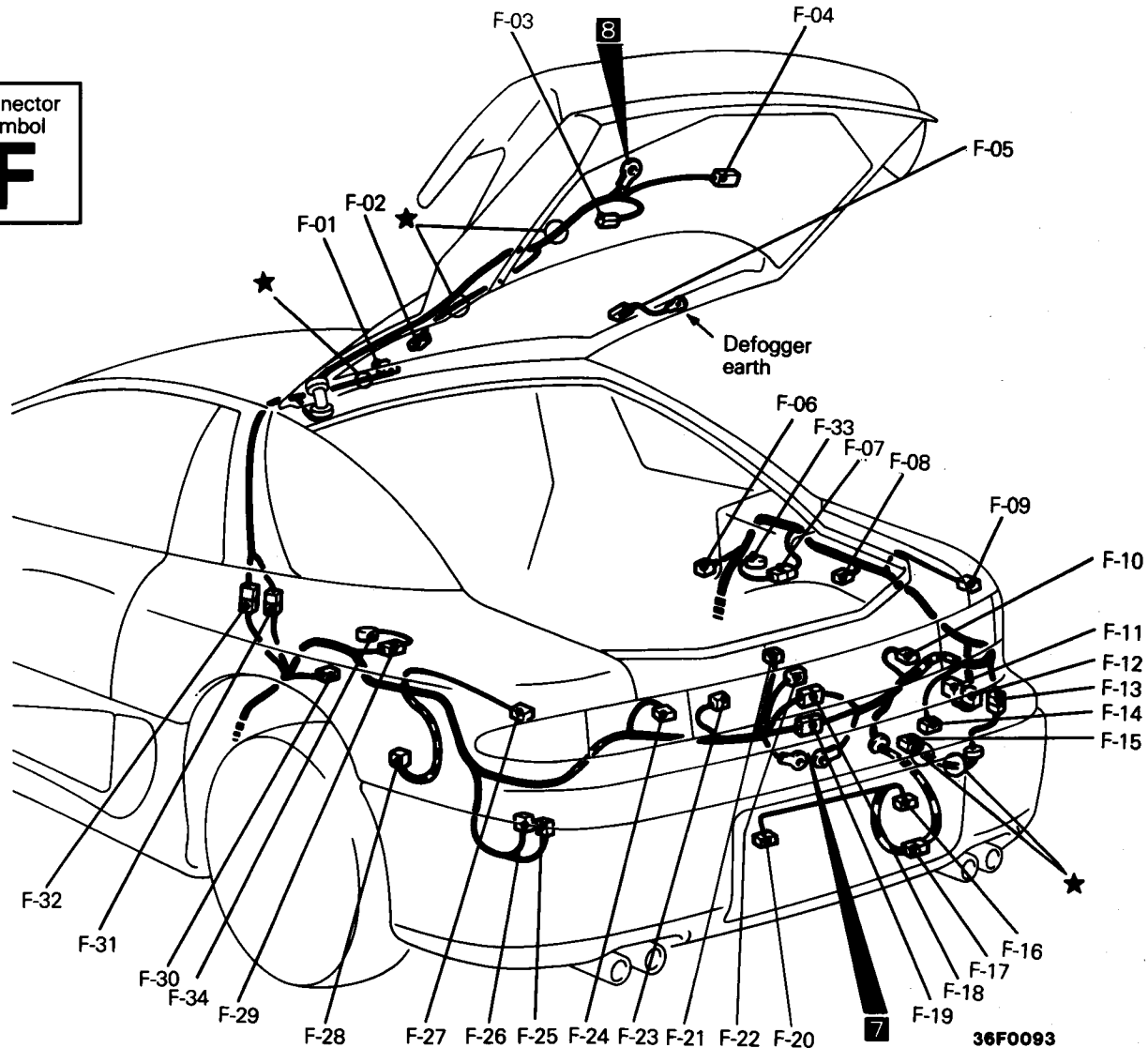


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- | | | | |
|------|---|----------|---|
| E-17 | Door lock actuator (Driver's side) | E-26 | Body wiring harness (main) and door wiring harness (RH) combination |
| E-18 | Door key cylinder unlock switch (Driver's side)
<Vehicles with theft-alarm system> | E-27 | Door mirror (Driver's side) |
| E-19 | Door lamp (Driver's side) | E-28 | Power window main switch |
| E-20 | Power seat assembly | E-29 | Power window motor (Driver's side) |
| E-21 | ECS G sensor | E-30 | No connection |
| E-22 | Door speaker (Driver's side) | E-31 } — | |
| E-23 | Turn signal and hazard flasher unit | thru } | |
| E-24 | Diode (for MPI circuit) | E-36 } | |
| E-25 | — | E-37 } | |
| | | E-38 } | No connection |

LUGGAGE COMPARTMENT

Connector symbol
F



- | | | | |
|------|---|------|---|
| F-01 | Interior temperature sensor | F-18 | } Body wiring harness (main) and body wiring harness (sub) combination |
| F-02 | Defogger (+) | F-19 | |
| F-03 | Rear wiper motor | F-20 | Licence plate lamp (LH) |
| F-04 | Active aero rear spoiler | F-21 | Luggage compartment lamp switch |
| F-05 | Defogger (-) | F-22 | Tailgate cylinder lock switch <Vehicles with theft-alarm system> |
| F-06 | Rear speaker (RH) | F-23 | Tailgate switch <Vehicles with theft-alarm system> |
| F-07 | Body wiring harness (sub) <LHD> or (main) <RHD> and ECS rear shock absorber joint wiring harness (RH) combination | F-24 | Buck-up lamp (LH) |
| F-08 | Luggage compartment lamp | F-25 | } Active aero control unit |
| F-09 | Rear combination lamp (RH) | F-26 | |
| F-10 | Back-up lamp (RH) | F-27 | Rear combination lamp (LH) |
| F-11 | } ECS control unit | F-28 | Motor antenna control unit |
| F-12 | | F-29 | Body wiring harness (main) <LHD> or (sub) <RHD> and ECS rear shock absorber joint wiring harness (LH) combination |
| F-13 | Body wiring harness (sub) <LHD> or (main) <RHD> and fuel tank wiring harness combination | F-30 | Rear speaker (LH) |
| F-14 | Rear washer motor | F-31 | } Body wiring harness (main) <LHD> or (sub) <RHD> and tailgate wiring harness combination |
| F-15 | Fuel tank | F-32 | |
| F-16 | Licence plate lamp (RH) | F-33 | ECS rear shock absorber (RH) |
| F-17 | Body wiring harness (sub) <LHD> or (main) <RHD> and rear bumper wiring harness combination | F-34 | ECS rear shock absorber (LH) |

3 SINGLE PART INSTALLATION POSITION

RELAY	3-2
CONTROL UNIT	3-5
SENSOR	3-7
SOLENOID VALVE	3-11
DIODE	3-12
INSPECTION TERMINAL	3-14
FUSIBLE LINK AND FUSE	3-15
EARTH CABLE	3-16
EARTH	3-17

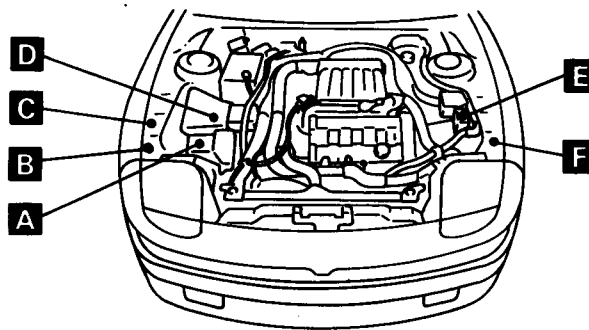
RELAY

Name	Symbol	Name	Symbol
ABS power relay	A	Headlamp relay	A
Alternator relay	A	Headlamp washer relay	H
Auto-cruise control relay	K	Horn relay	A
Blower motor relay	L	Magnetic clutch relay	E
Blower motor relay (HI)	I	Motor relay (ABS hydraulic unit)	B
Condenser fan motor relay (HI)	E	Pop-up motor relay	A
Condenser fan motor relay (LO)	E	Pop-up relay *1 *2	H
Daytime running lamp relay 1 *1	F	Power window relay	G
Daytime running lamp relay 2 *1	F	Radiator fan motor control relay	E
Defogger relay	G	Radiator fan motor relay (HI)	A
Dim-dip lamp relay 1 *2	C	Radiator fan motor relay (LO)	A
Dim-dip lamp relay 2 *2	C	Rear fog lamp relay	G
Dim-dip lamp relay 3 *2	C	Rear intermittent wiper relay	N
Door lock relay	G	Starter relay *3	A
Driving lamp relay	A	Tail lamp relay	A
Engine control relay	J	Theft-alarm horn relay *3	L
Engine oil level relay	H	Turn-signal and hazard flasher unit	M
Fuel pump relay	D	Valve relay (ABS hydraulic unit)	B

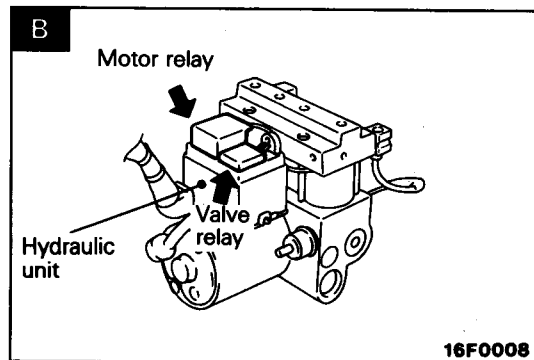
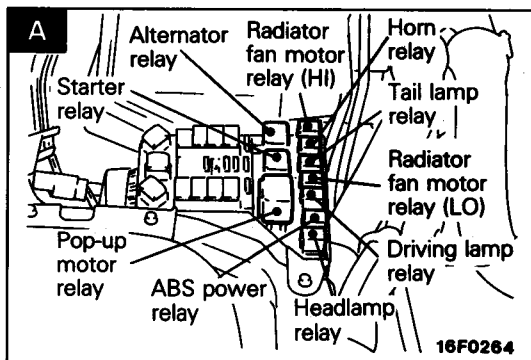
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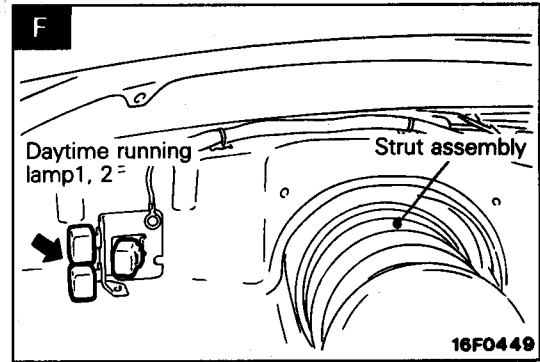
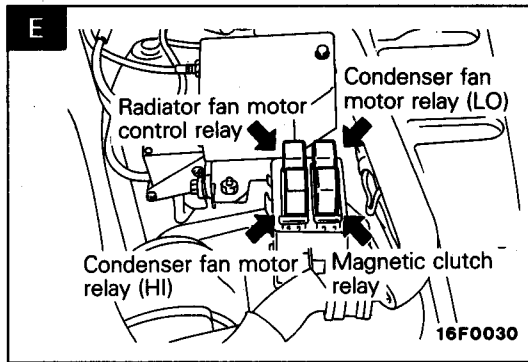
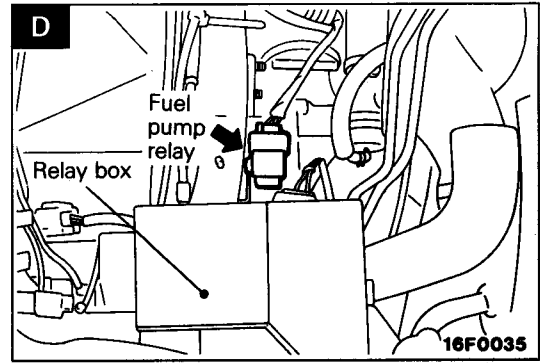
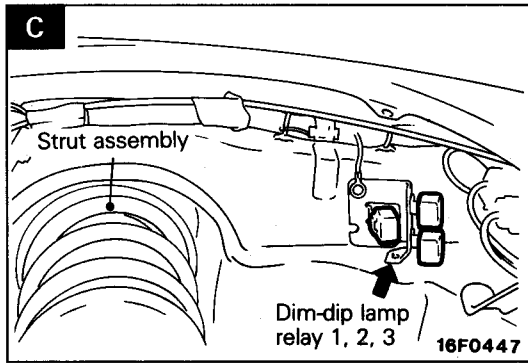
- (1) *1: L.H. drive vehicles with daytime running lamp.
- (2) *2: R.H. drive vehicles with dim-dip lamp.
- (3) *3: Vehicles with theft-alarm system.
- (4) Names are listed in alphabetical order.

Engine compartment

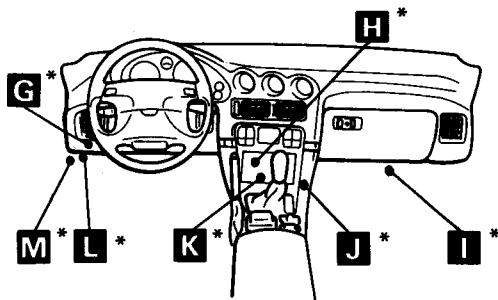


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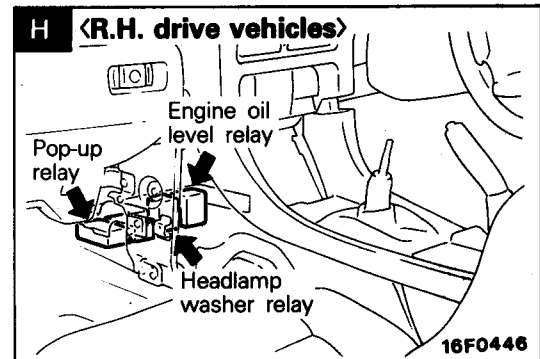
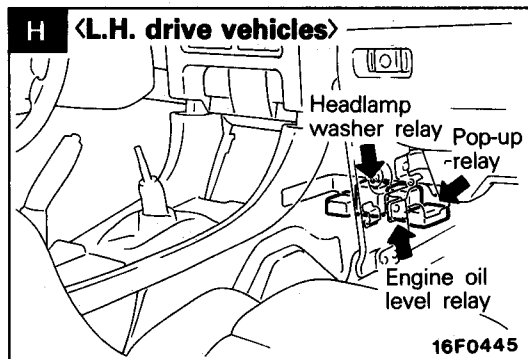
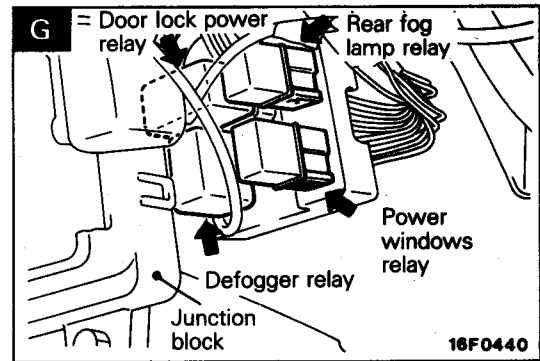


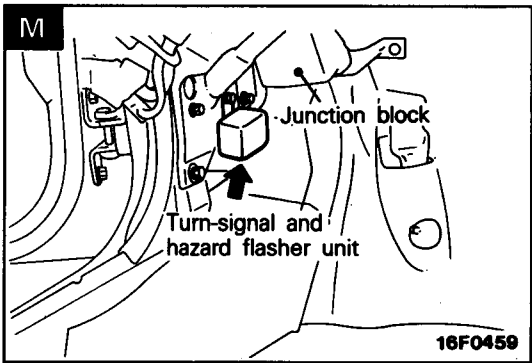
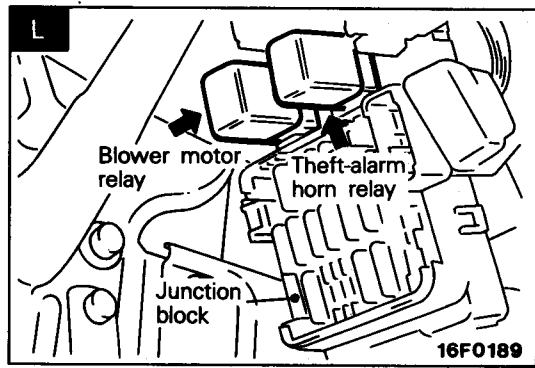
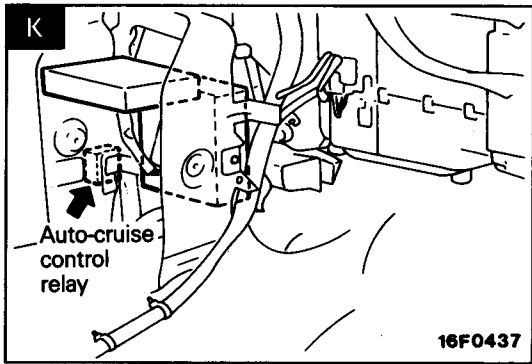
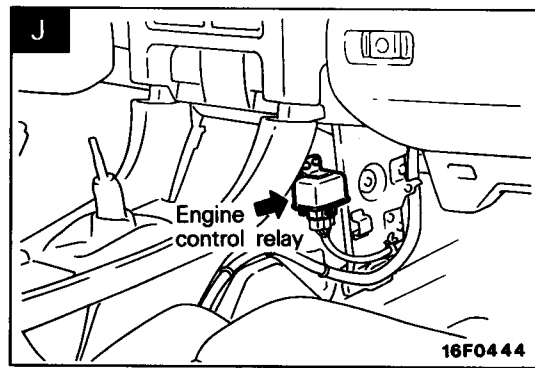
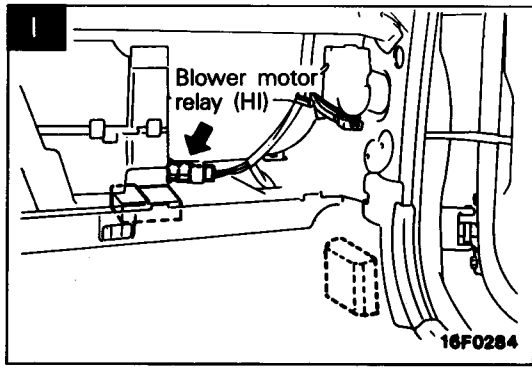
Instrument panel



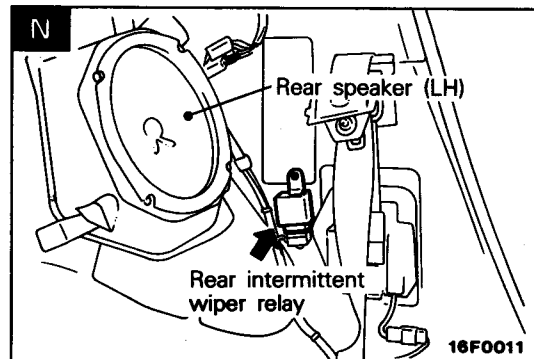
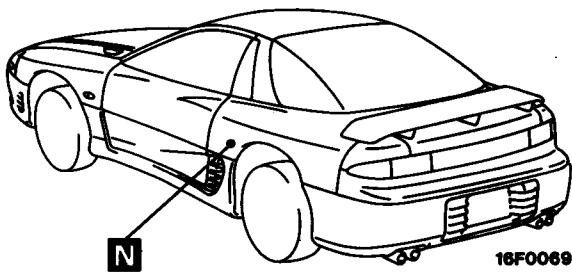
19F0134

NOTE
For R.H. drive vehicles, only the positions indicated by the * are symmetrical.





Quarter panel



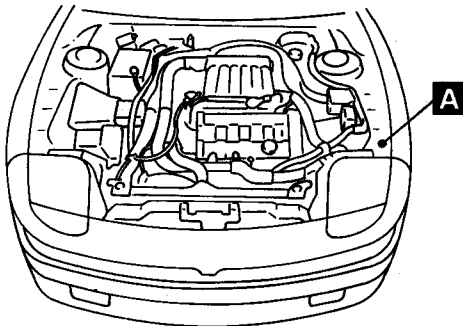
CONTROL UNIT

Name	Symbol	Name	Symbol
ABS control unit	I	Electronic control suspension control unit	H
Active aero control unit	G	Engine control unit	C
Air conditioner compressor lock controller	D	ETACS control unit	B
Air conditioner control unit	C	Motor antenna control unit	F
Auto-cruise control unit	D	SRS diagnosis unit	E
Daytime running lamp control unit *	A		

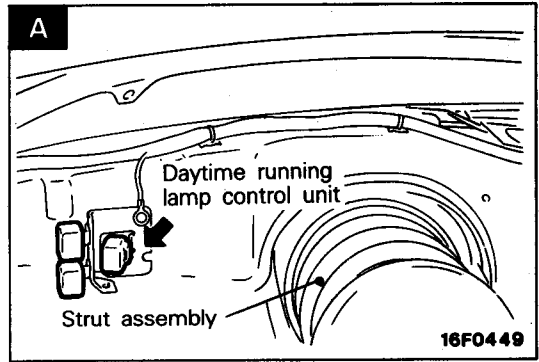
NOTE

- (1) *: L.H. drive vehicles with daytime running lamp.
- (2) Names are listed in alphabetical order.

Engine compartment

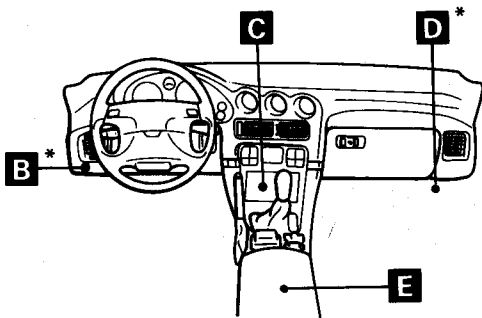


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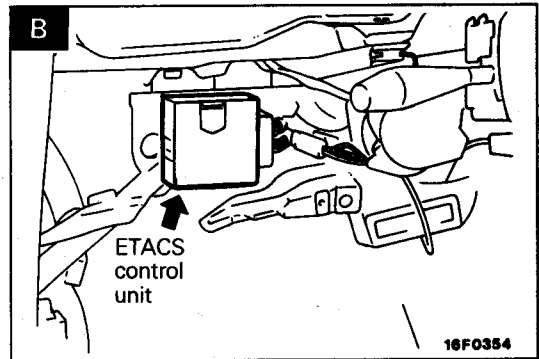


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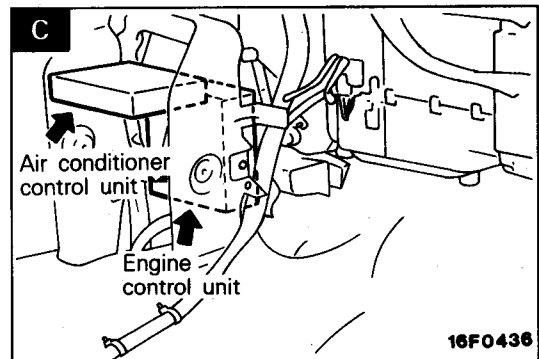
Instrument panel



19F0134



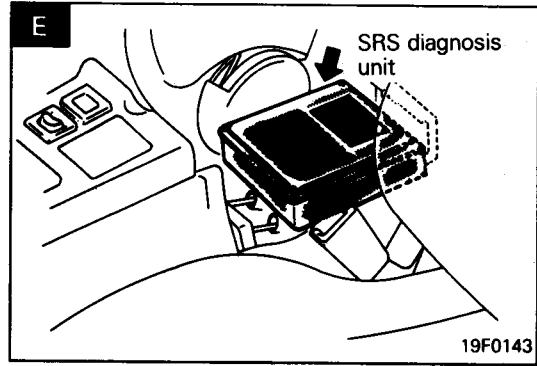
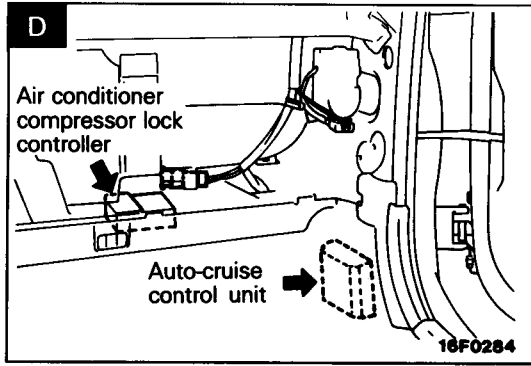
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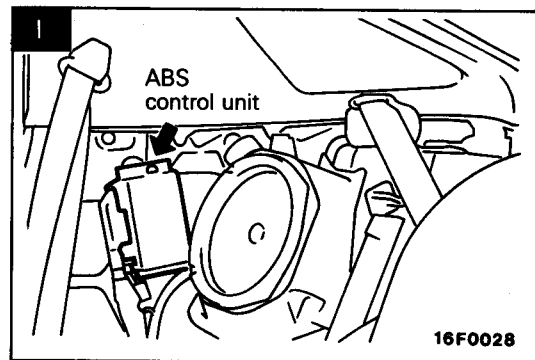
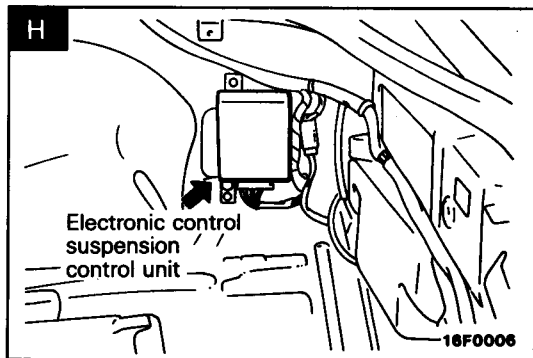
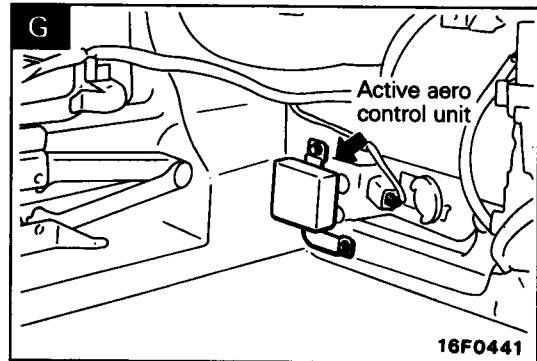
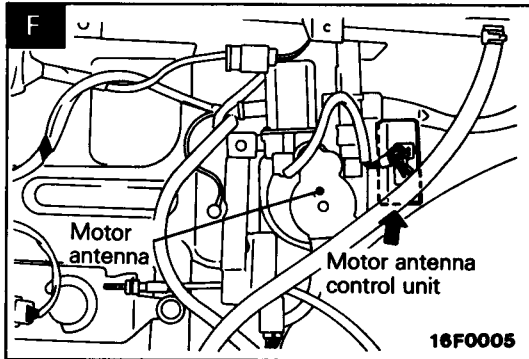
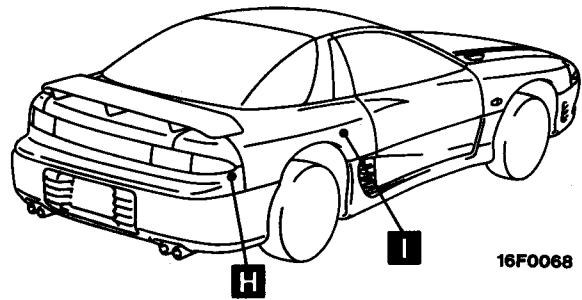
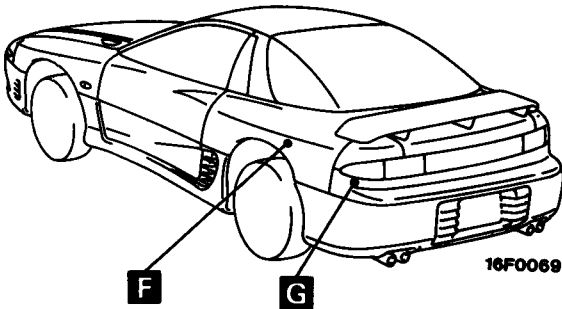
16F0438

NOTE

For R.H. drive vehicles, only the positions indicated by the * are symmetrical.



Quarter panel, luggage compartment



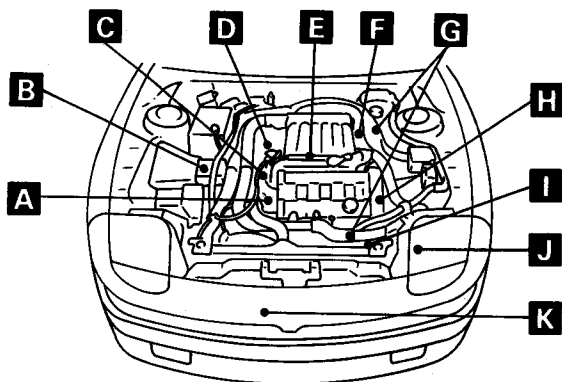
SENSOR

Name	Symbol	Name	Symbol
ABS speed sensor (front)	U	Front impact sensor	T
ABS speed sensor (rear)	V	G sensor (for ABS)	Q
Air-flow sensor (with built-in barometric pressure sensor, intake air temperature sensor)	B	G sensor (for electronic control suspension)	R
Air inlet sensor (for A/C)	O	Interior temperature sensor	S
Air thermo sensor (for A/C)	N	Oxygen sensor	G
Cam position sensor	H	Photo sensor	P
Crank angle sensor	H	Power steering oil pressure switch	F
Detonation sensor	E	Revolution pick-up sensor	I
Engine coolant temperature sensor (for engine control)	A	Steering wheel angle speed sensor	L
Engine coolant temperature sensor (for A/C)	M	Thermo sensor	K
Engine coolant temperature switch (for A/C)	A	Thermostat	H
Engine oil level sensor	J	Throttle position sensor	D
		Vehicle speed sensor	C

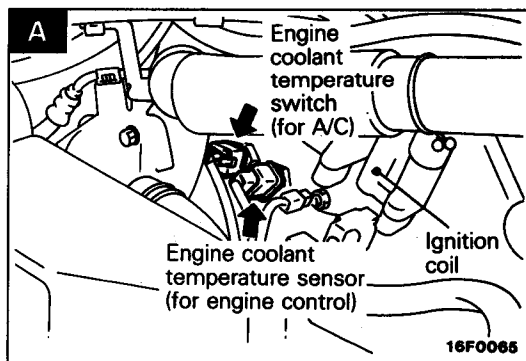
NOTE

Names are listed in alphabetical order.

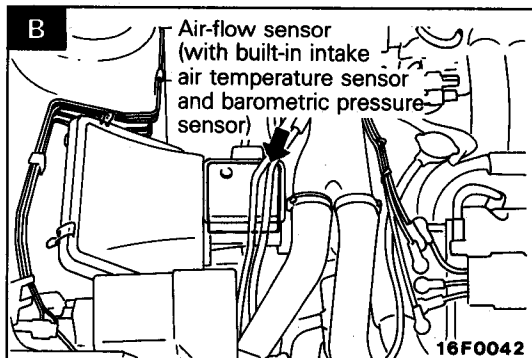
Engine compartment



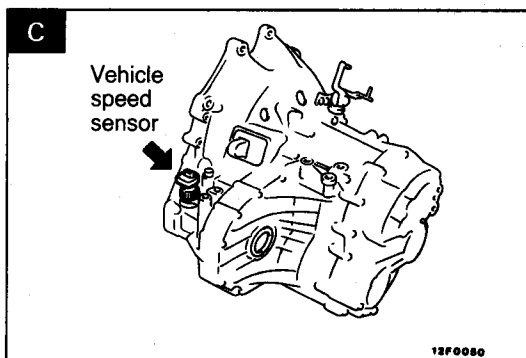
16F0257



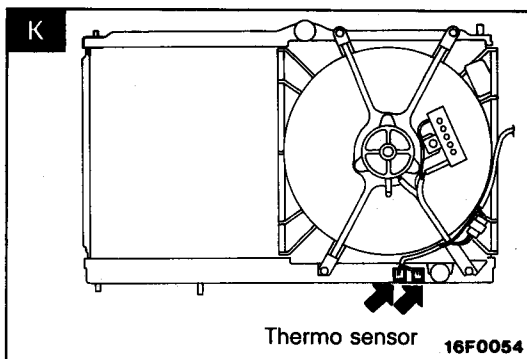
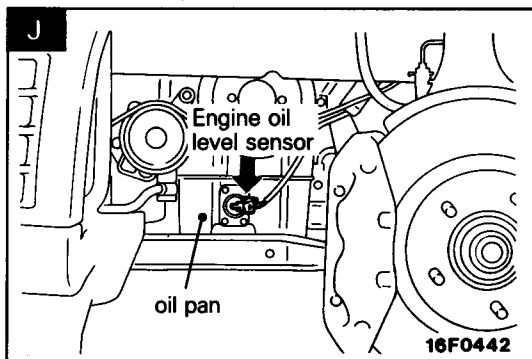
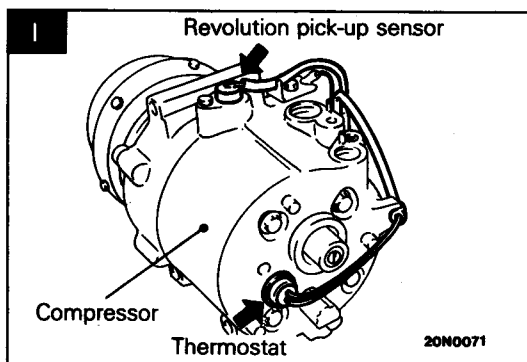
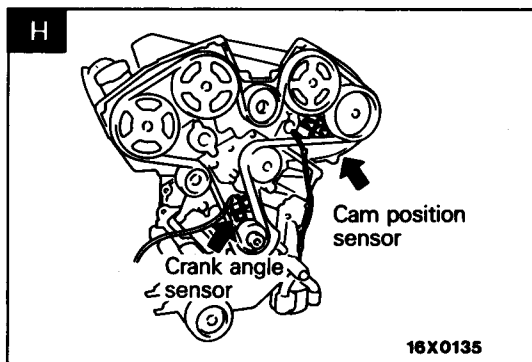
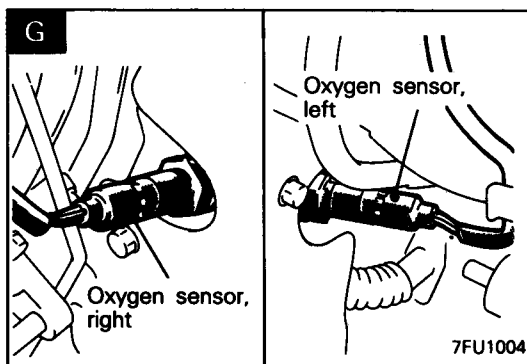
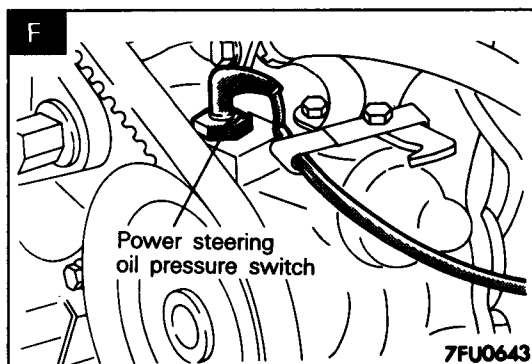
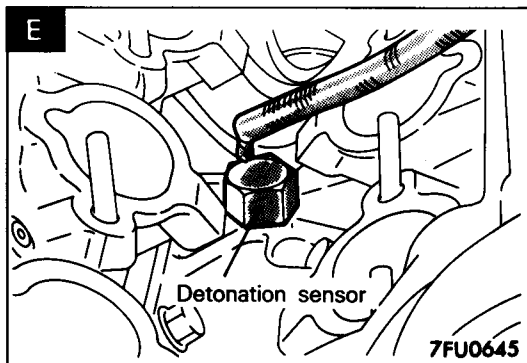
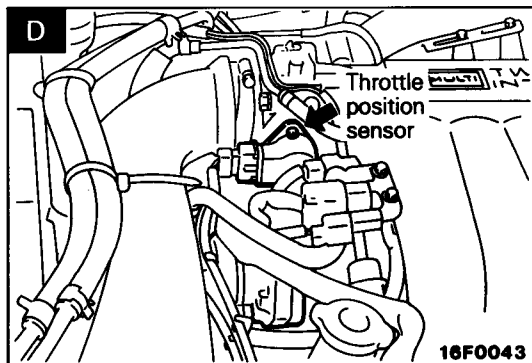
16F0065



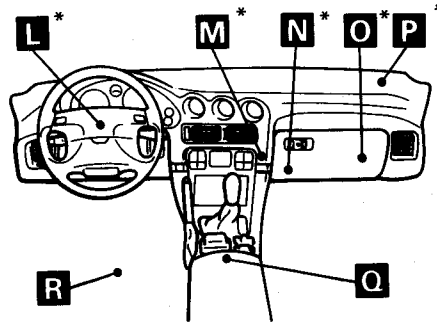
16F0042



12F0080

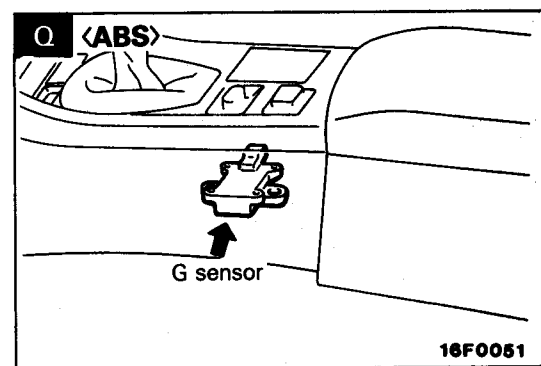
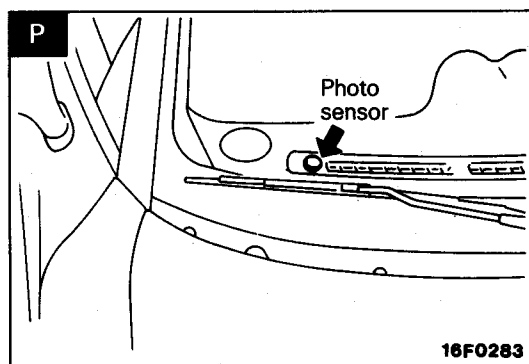
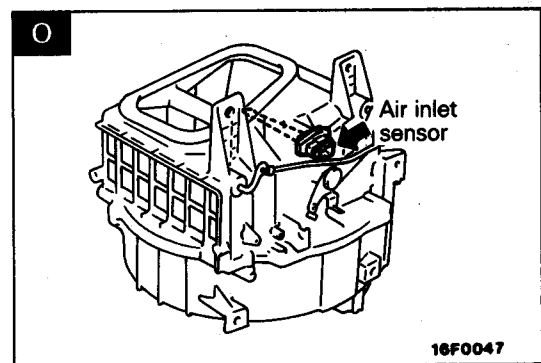
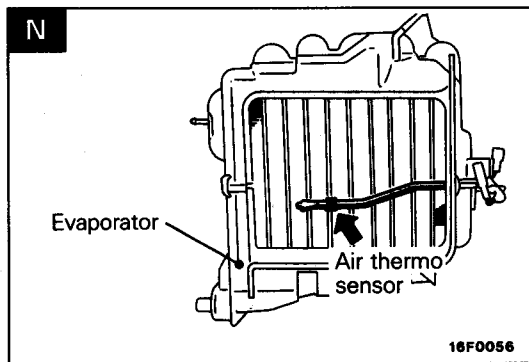
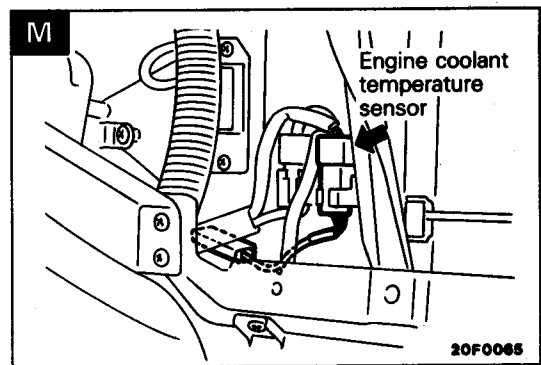
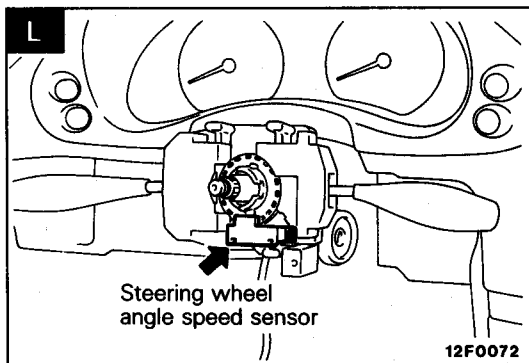


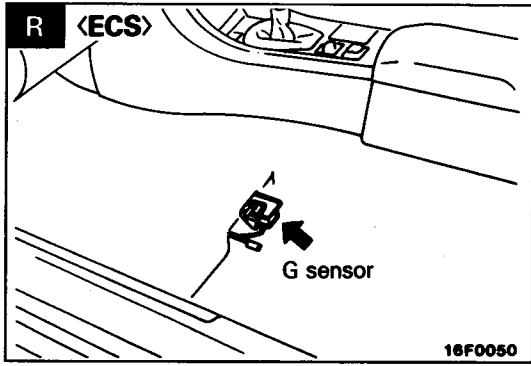
Instrument panel



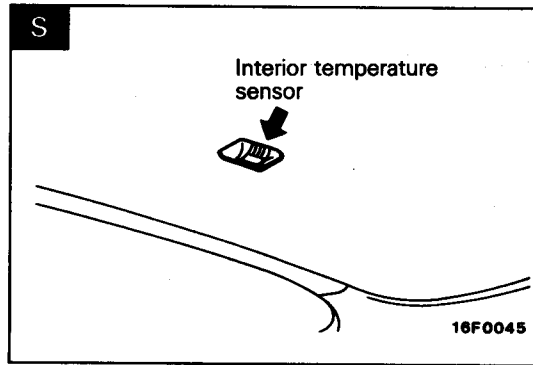
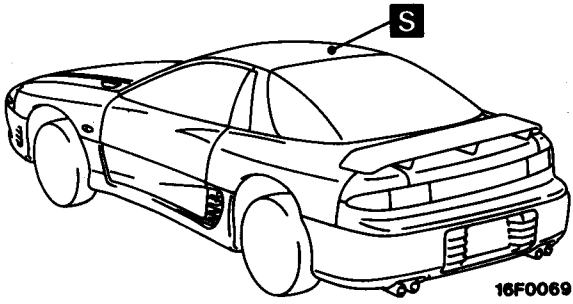
19F0134

NOTE
For R.H. drive vehicles, only the positions indicated by the * are symmetrical.

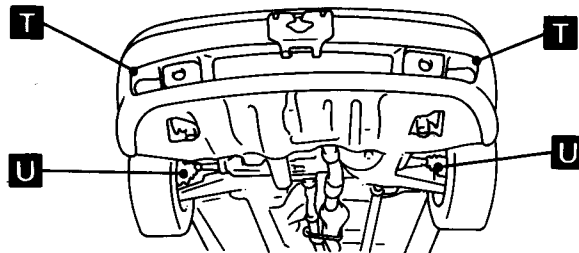




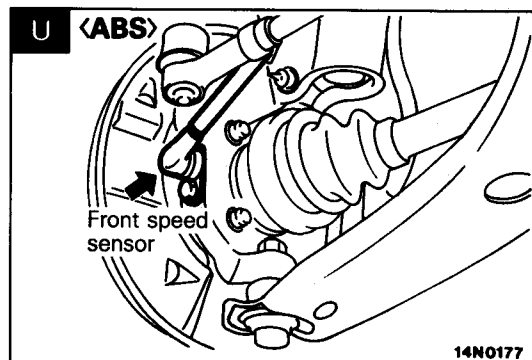
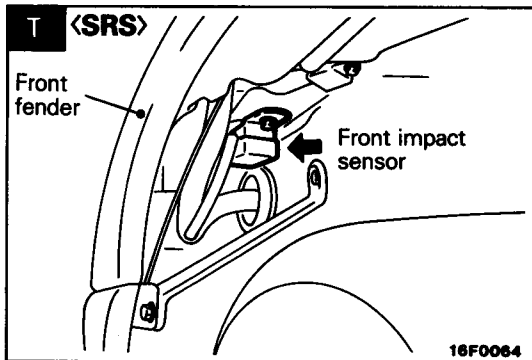
Roof



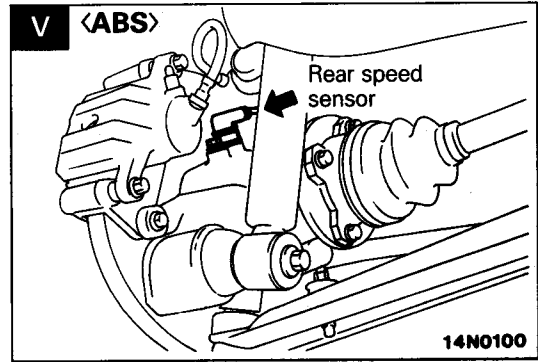
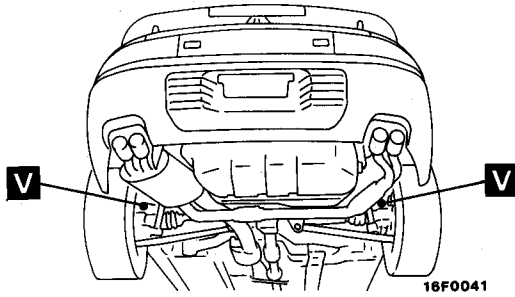
Front under floor



16F0040



Rear under floor

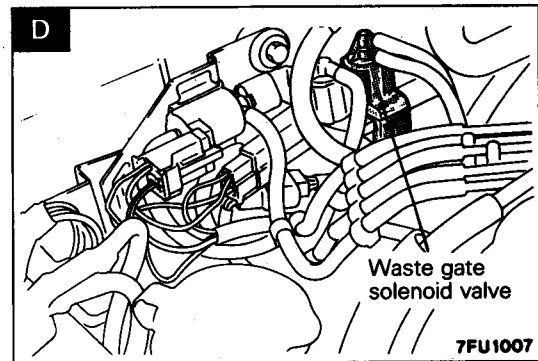
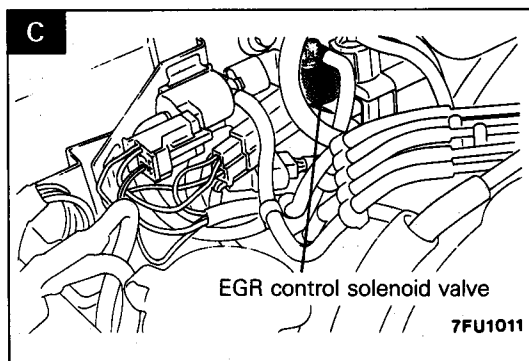
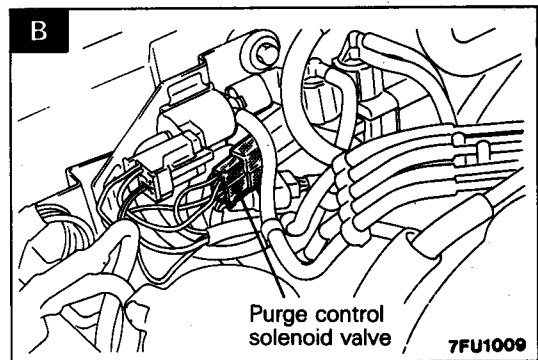
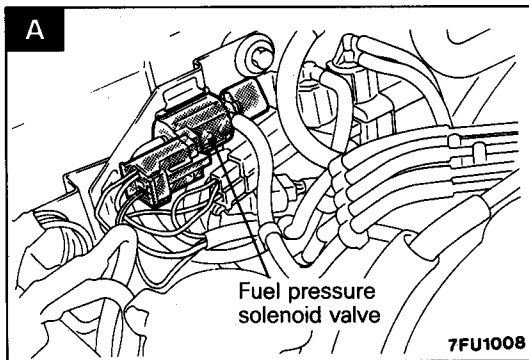
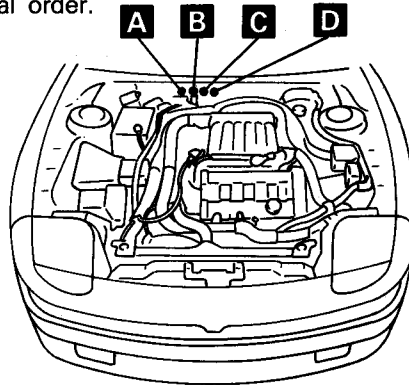


SOLENOID VALVE

Name	Symbol	Name	Symbol
EGR control solenoid valve	C	Purge control solenoid valve	B
Fuel pressure solenoid valve	A	Waste gate solenoid valve	D

NOTE
The "Name" column is arranged in alphabetical order.

<Engine compartment>

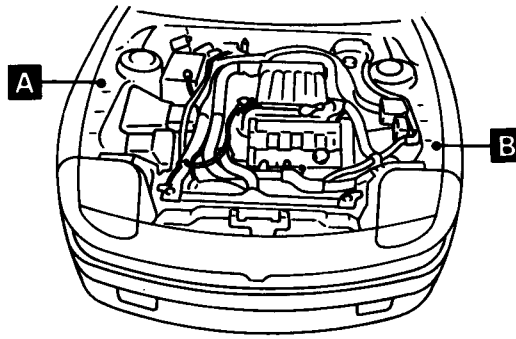


DIODE

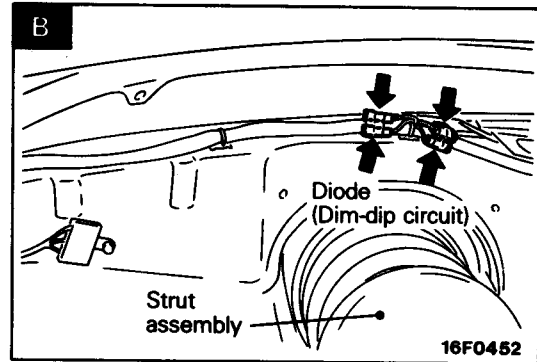
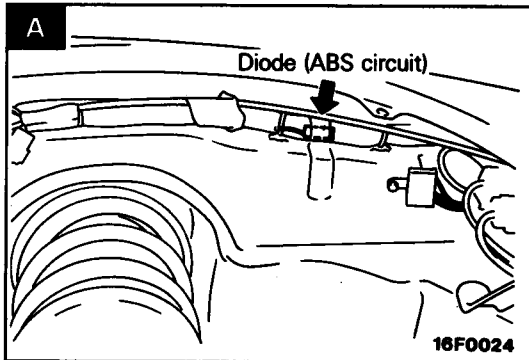
Name	Symbol	Name	Symbol
Diode (ABS circuit)	A	Diode (Pop-up circuit) <R.H. drive vehicles>	D
Diode (Daytime running lamp circuit)	D	Diode (Theft-alarm circuit)	D
Diode (Dim-dip lamp circuit)	B	Diode (4WS fluid level warning lamp circuit)	E
Diode (MPI circuit)	C		

NOTE
Names are listed in alphabetical order.

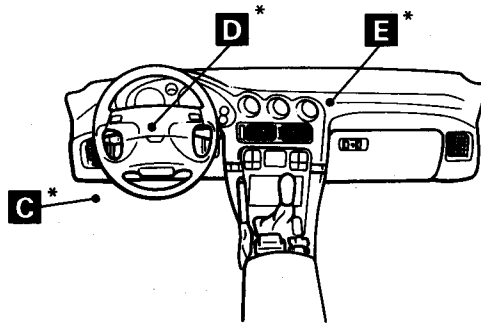
Engine compartment



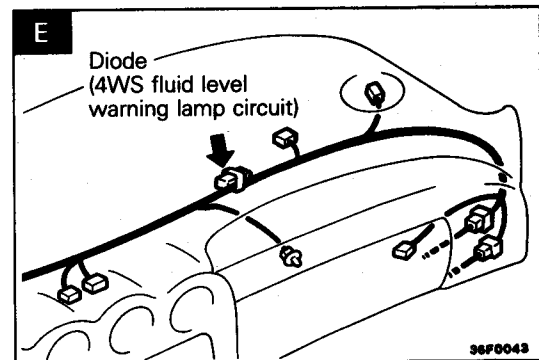
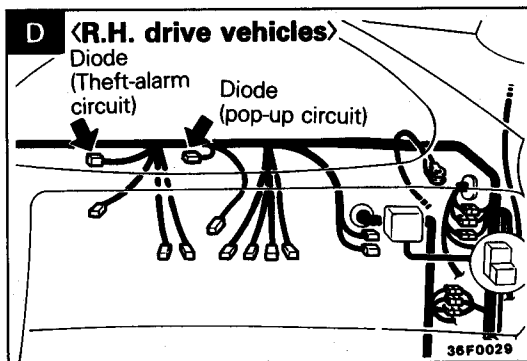
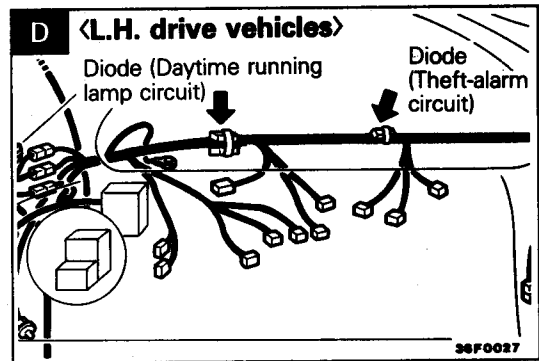
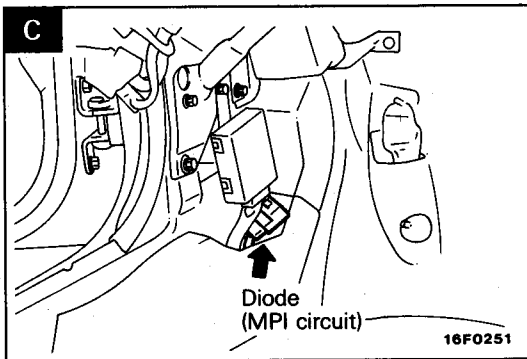
16F0257



Instrument panel



NOTE
 19F0134 For R.H. drive vehicles, only the positions indicated by the * are symmetrical.



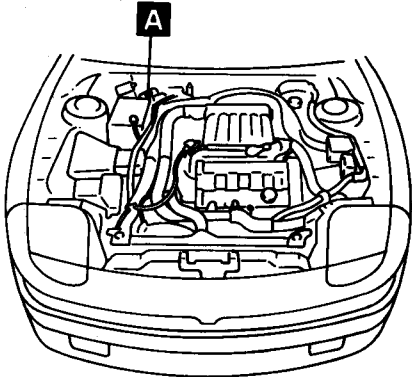
3-14 SINGLE PART INSTALLATION POSITION — Inspection terminal

INSPECTION TERMINAL

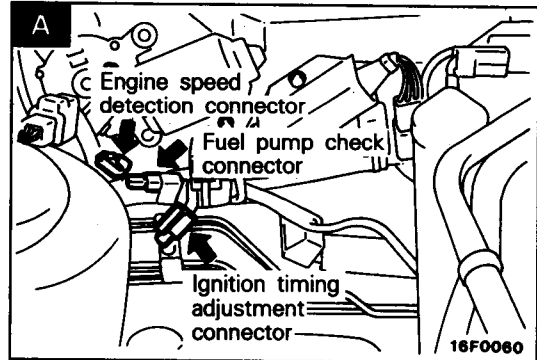
Name	Symbol	Name	Symbol
Diagnosis connector	B	Fuel pump check connector	A
Engine speed detection connector	A	Ignition timing adjustment connector	A

NOTE
Names are listed in alphabetical order.

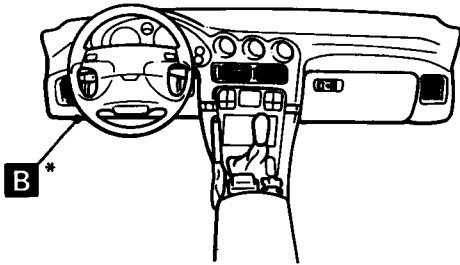
Engine compartment



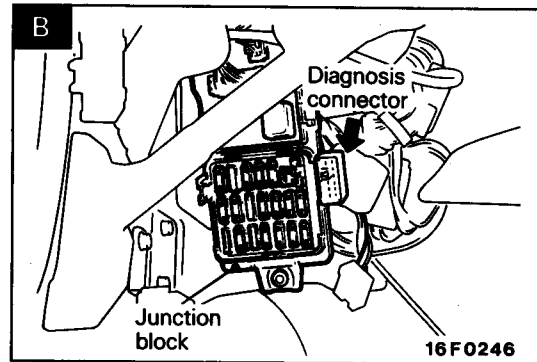
16F0257



Instrument panel



19F0134



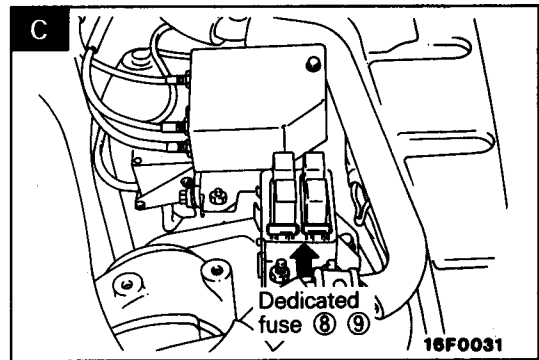
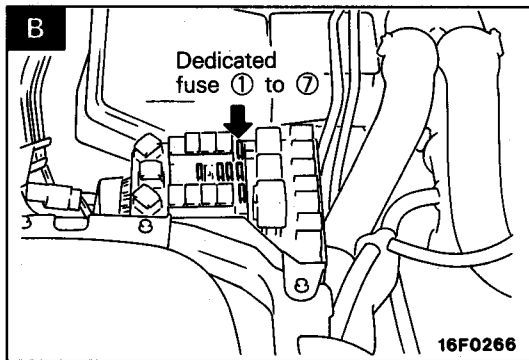
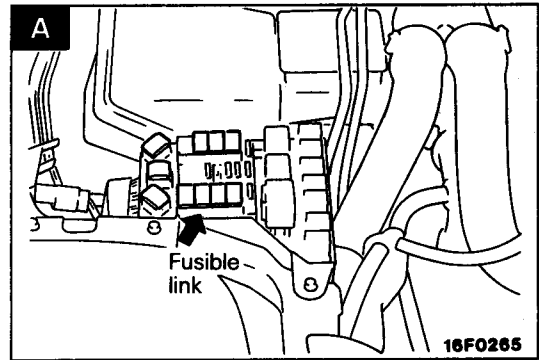
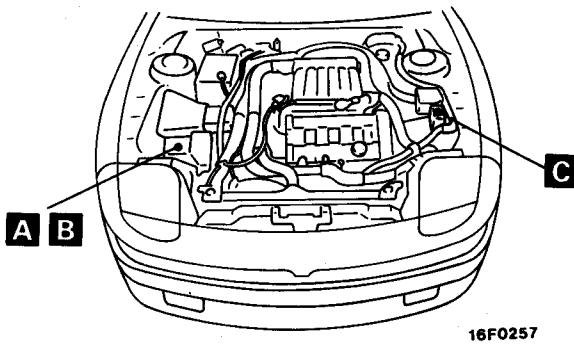
NOTE
For R.H. drive vehicles, only the positions indicated by the * are symmetrical.

FUSIBLE LINK AND FUSE

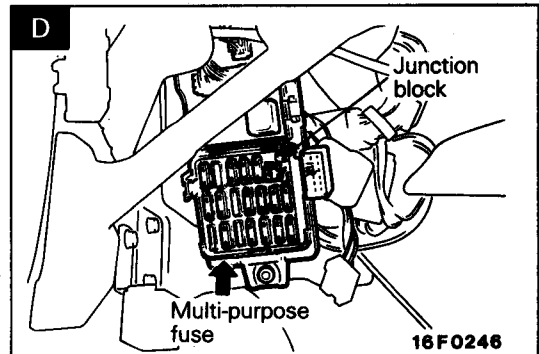
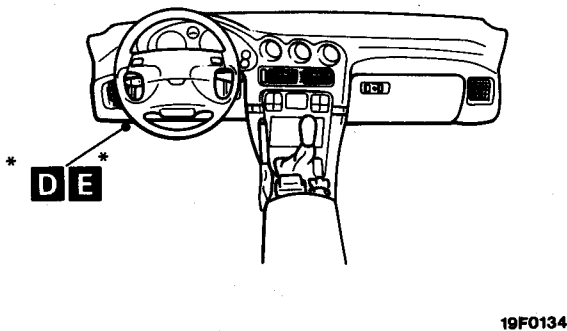
Name	Symbol	Name	Symbol
Dedicated fuse ① to ⑦	B	Fusible link	A
Dedicated fuse ⑧ ⑨	C	Multi-purpose fuse	D
Dedicated fuse ⑩	E	—	—

NOTE
Names are listed in alphabetical order.

Engine compartment

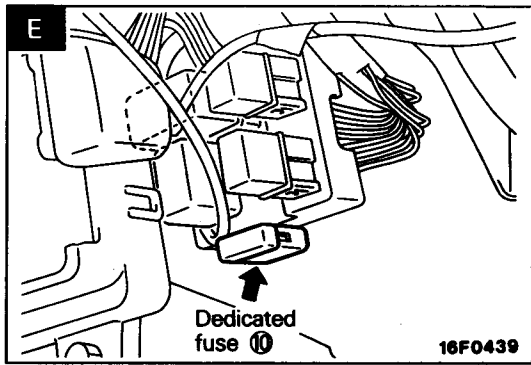


Instrument panel



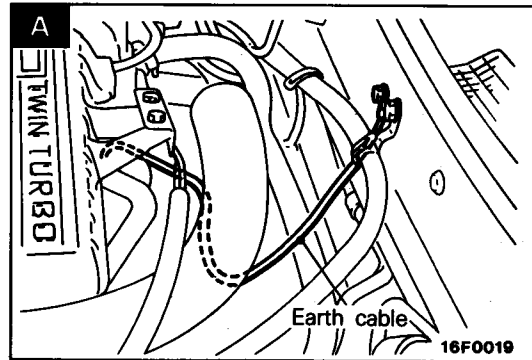
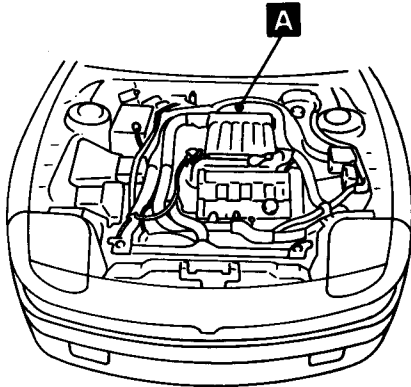
NOTE
For R.H. drive vehicles, only the positions indicated by the * are symmetrical.

3-16 SINGLE PART INSTALLATION POSITION — Fushible link Fuse/Earth cable

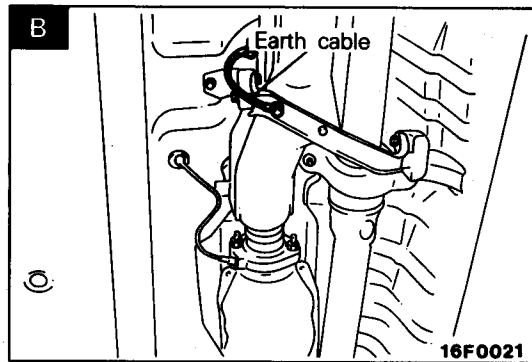
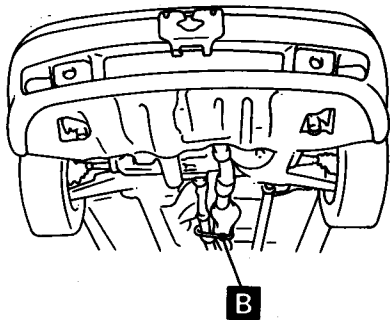


EARTH CABLE

Engine compartment

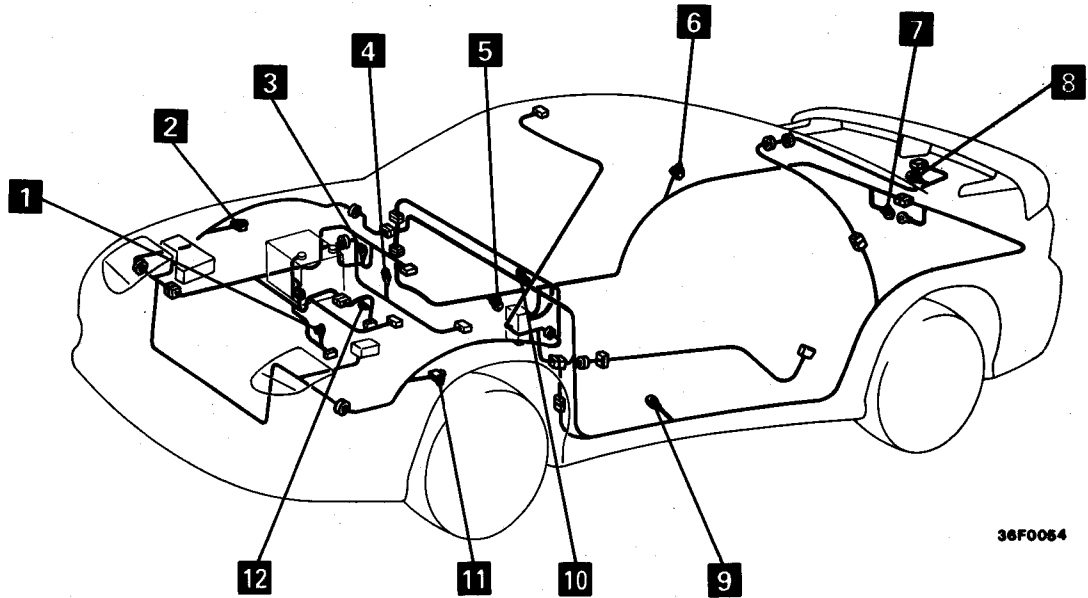


Front under floor

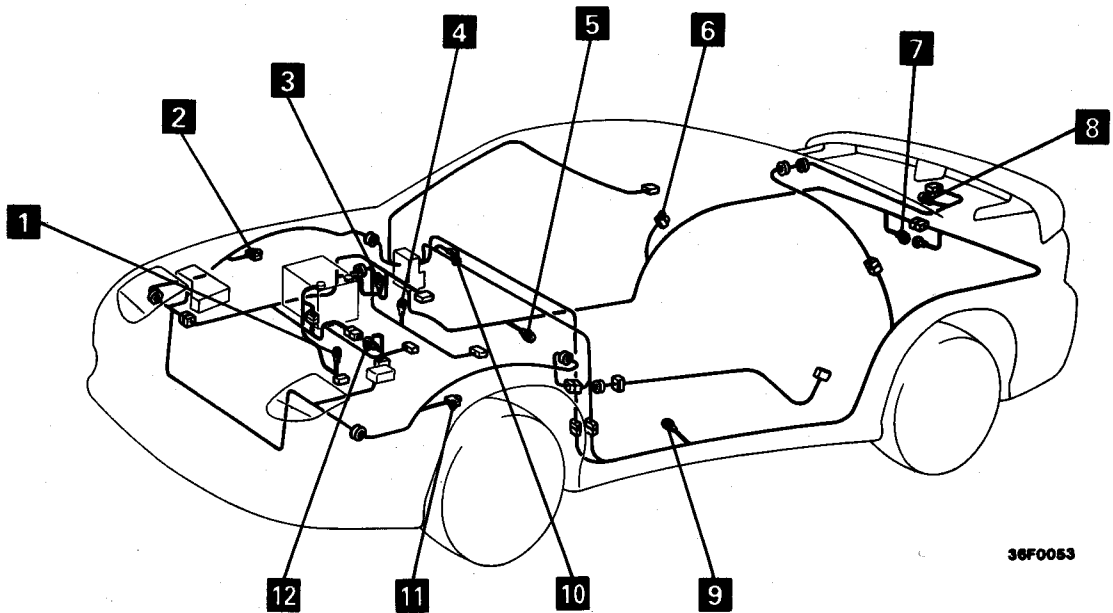


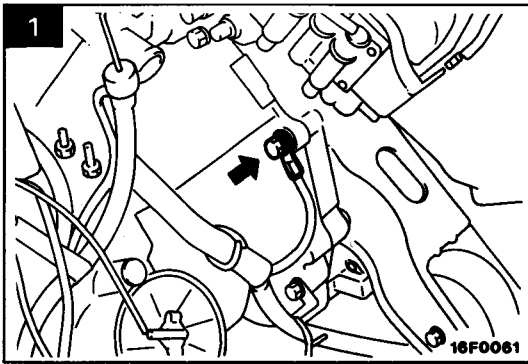
EARTH

〈L.H. drive vehicles〉

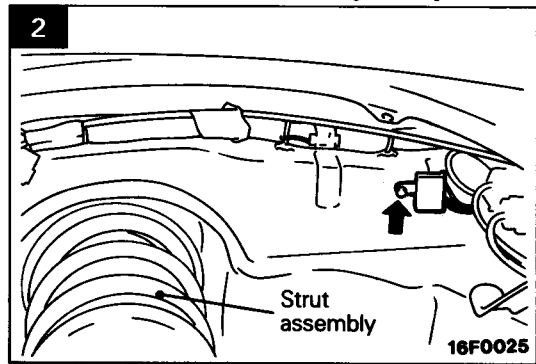


〈R.H. drive vehicles〉

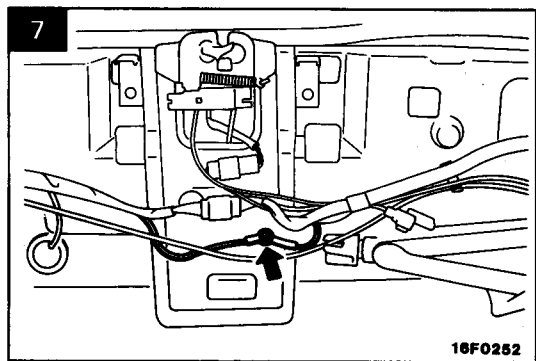
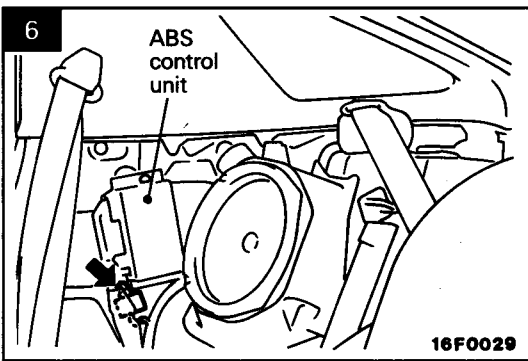
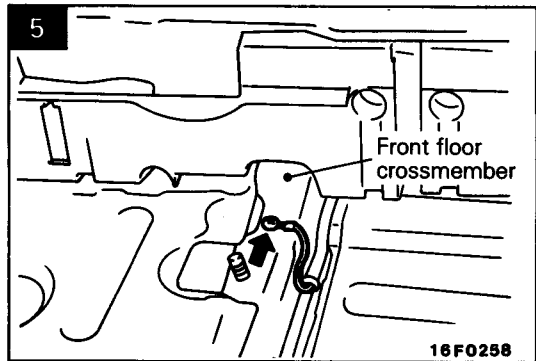
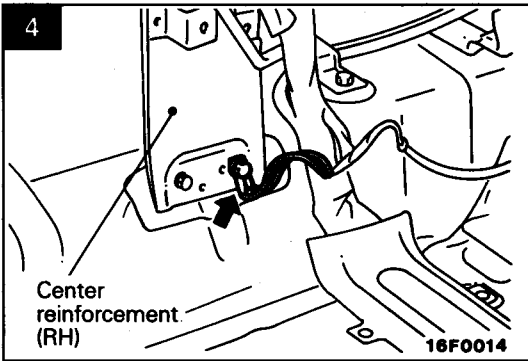
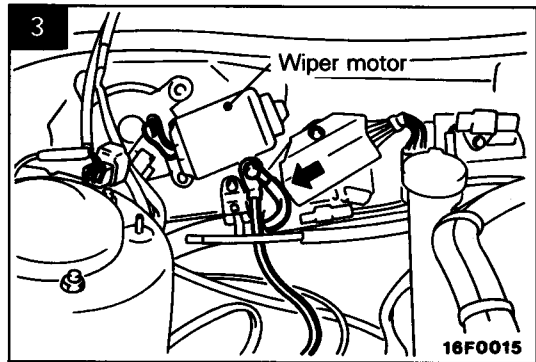
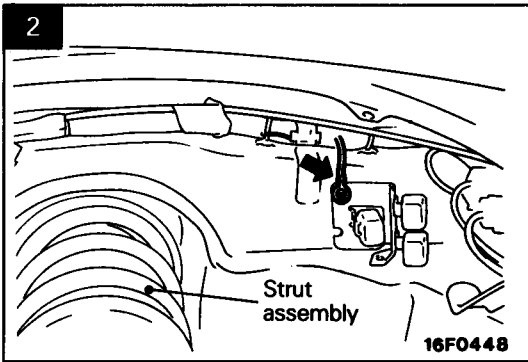


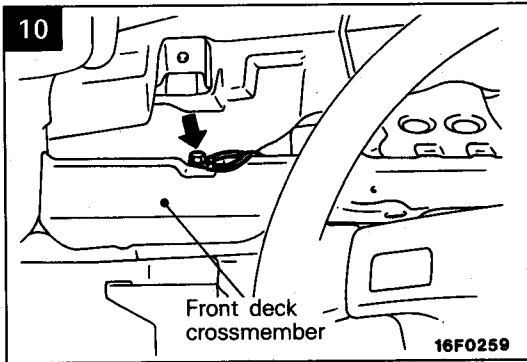
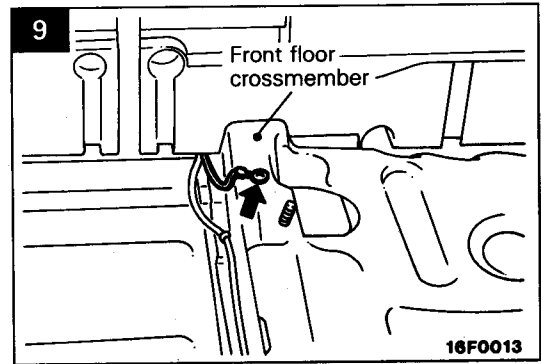
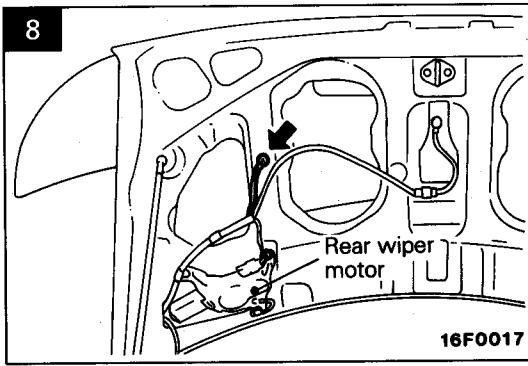


<Vehicles without dim-dip lamp>

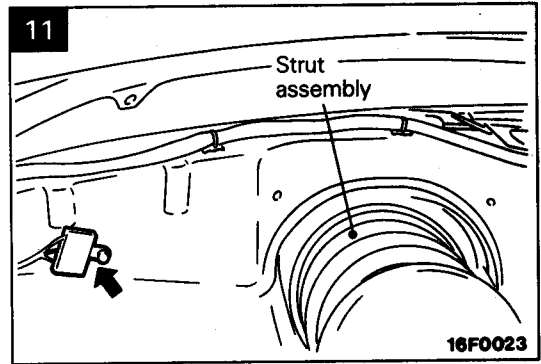


<Vehicles with dim-dip lamp>

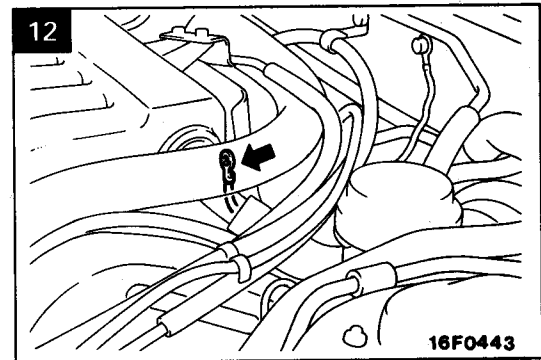
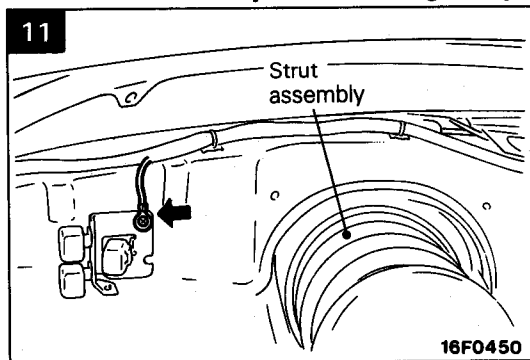




<Vehicles without daytime running lamp>



<Vehicles with daytime running lamp>



NOTES

3B SINGLE PART INSTALLATION POSITION

RELAY	3B-2
CONTROL UNIT	3B-5
SENSOR	3B-7
SOLENOID VALVE	3B-11
DIODE	3B-12
INSPECTION CONNECTOR	3B-13
FUSIBLE LINK AND FUSE	3B-14
EARTH CABLE	3B-15
EARTH	3B-16

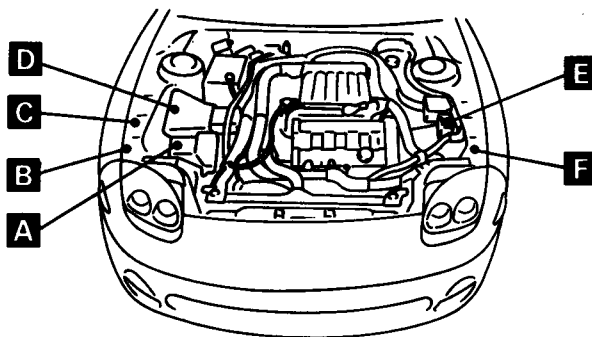
RELAY

Name	Symbol	Name	Symbol
ABS motor relay	B	Engine oil level relay	H
ABS valve relay	B	Fuel pump relay	D
Alternator relay	A	Headlamp relay	A
Auto-cruise control relay	K	Headlamp washer relay	H
Blower motor relay	L	Horn relay	A
Blower motor relay (HI)	I	Magnetic clutch relay	E
Condenser fan motor relay (HI)	E	Power window relay	G
Condenser fan motor relay (LO)	E	Radiator fan motor relay (HI)	A
Daytime running lamp relay *1	F	Radiator fan motor relay (LO)	A
Defogger relay	G	Rear fog lamp relay	G
Dim-dip lamp relay 1 *2	C	Rear intermittent wiper relay	N
Dim-dip lamp relay 2 *2	C	Starter relay *3	A
Dim-dip lamp relay 3 *2	C	Tail lamp relay	A
Door lock power relay	G	Theft-alarm horn relay *3	L
Engine control relay	J	Turn-signal and hazard flasher unit	M

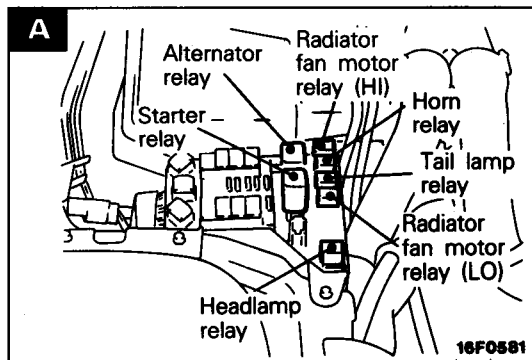
NOTE

- (1) *1: L.H. drive vehicles with daytime running lamp.
- (2) *2: R.H. drive vehicles with dim-dip lamp.
- (3) *3: Vehicles with theft-alarm system.

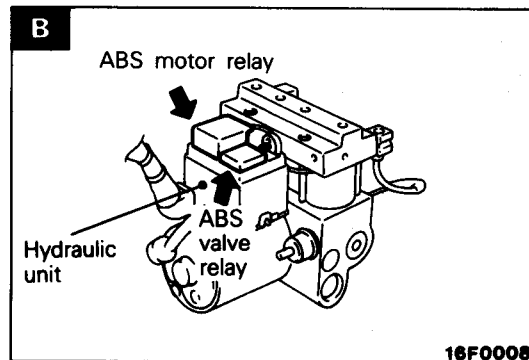
Engine compartment



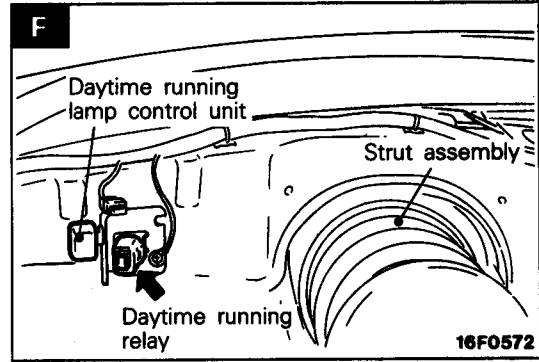
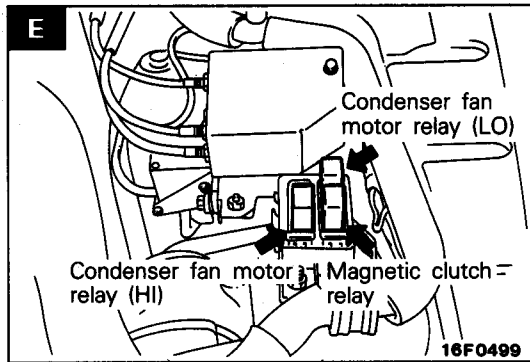
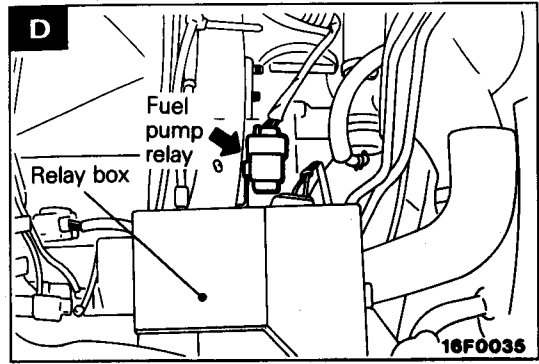
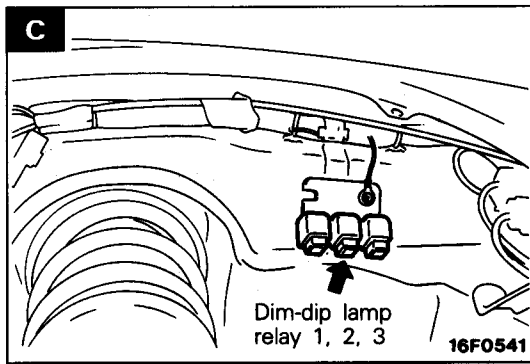
16F0502



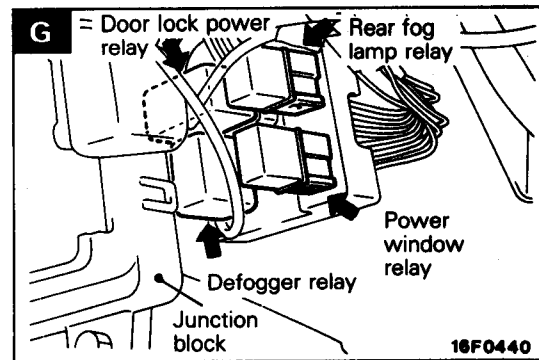
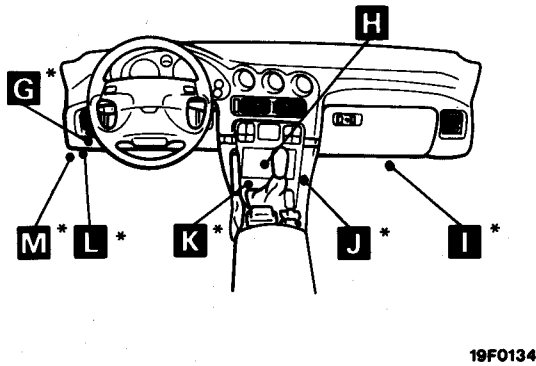
16F0581



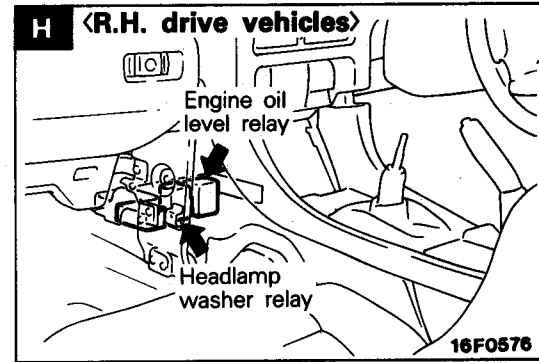
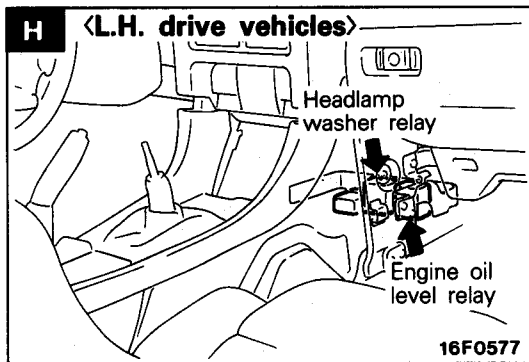
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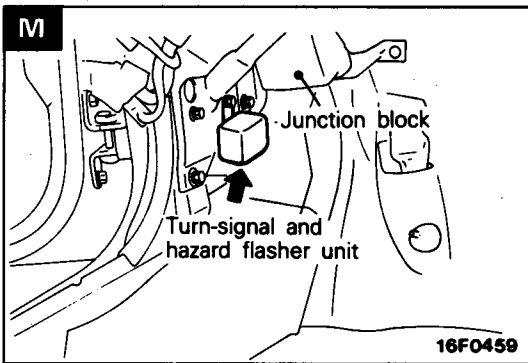
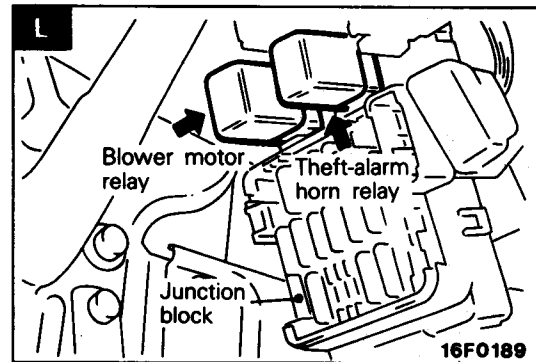
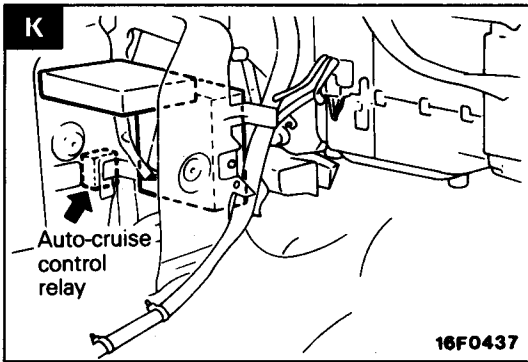
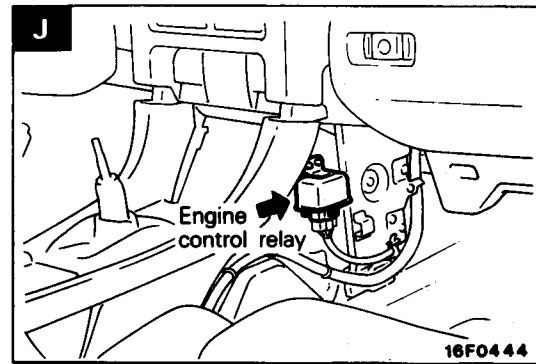
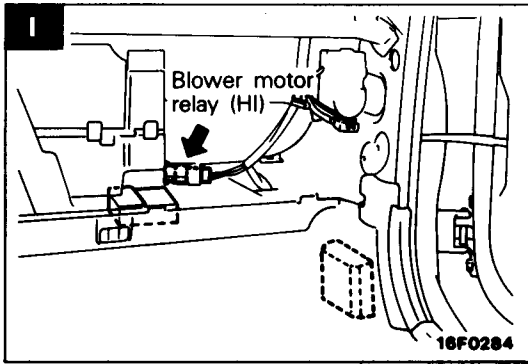


Instrument panel

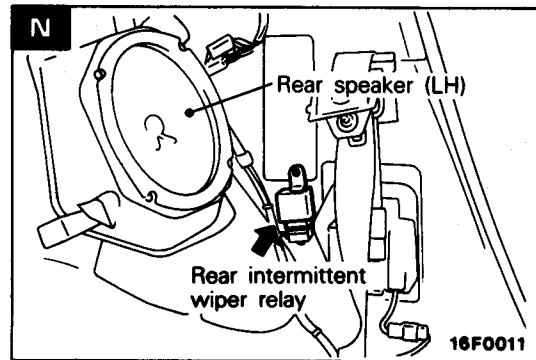
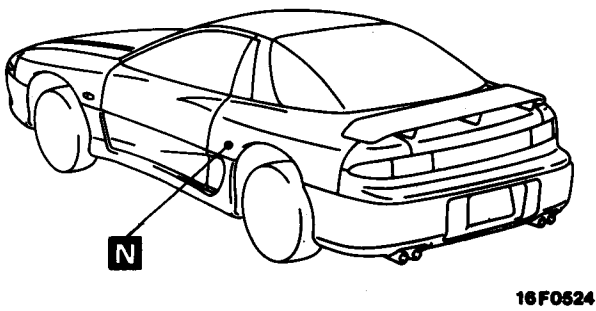


NOTE
For R.H. drive vehicles, only the positions indicated by the * are symmetrical.





Quarter panel



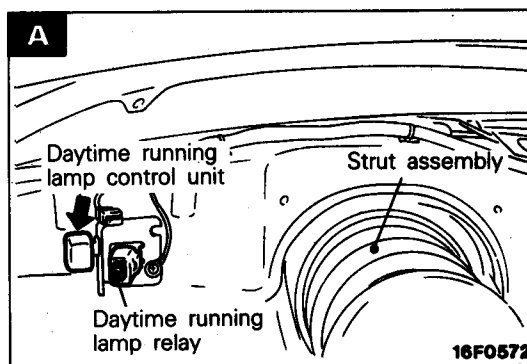
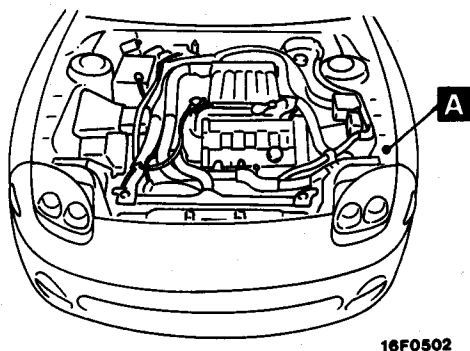
CONTROL UNIT

Name	Symbol	Name	Symbol
ABS control unit	I	ECS control unit	H
Active aero control unit	G	Engine control unit	C
A/C compressor lock controller	D	ETACS control unit	B
A/C control unit	C	Motor antenna control unit	F
Auto-cruise control unit	D	SRS diagnosis unit	E
Daytime running lamp control unit *	A		

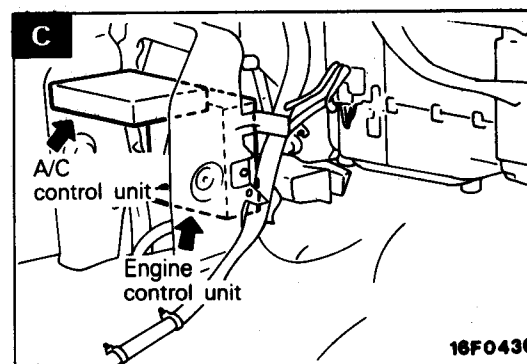
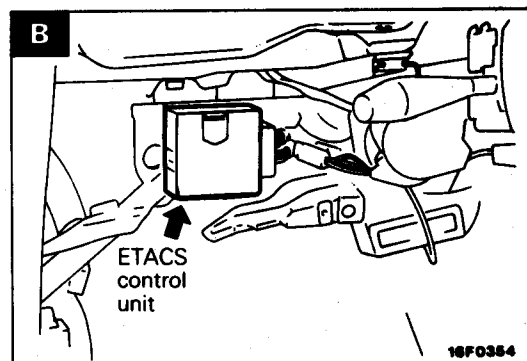
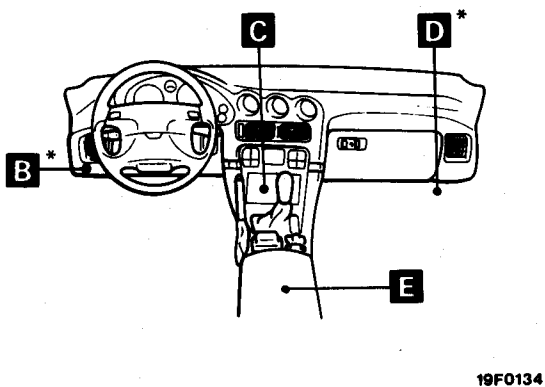
NOTE

*: L.H. drive vehicles with daytime running lamp.

Engine compartment

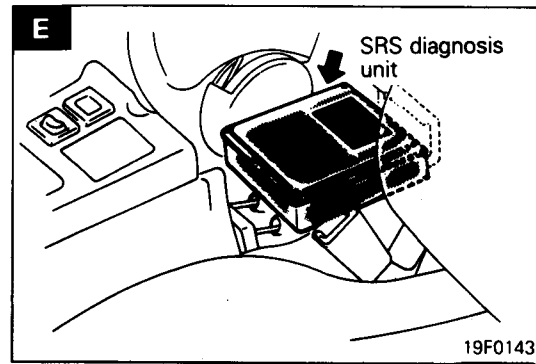
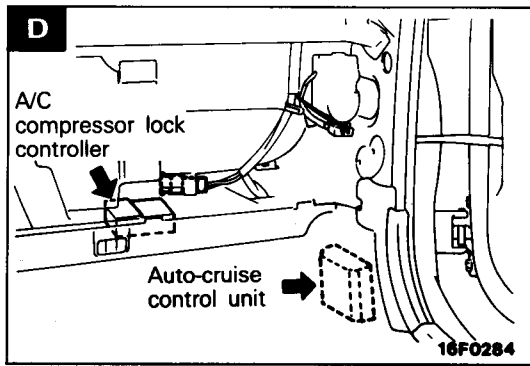


Instrument panel

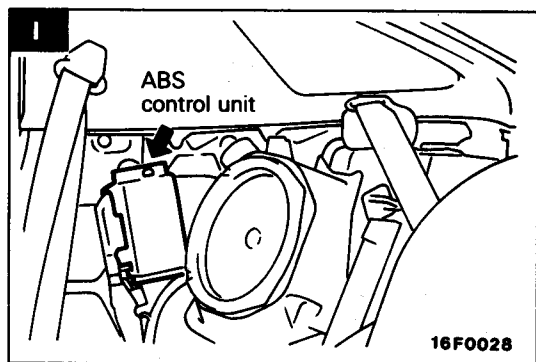
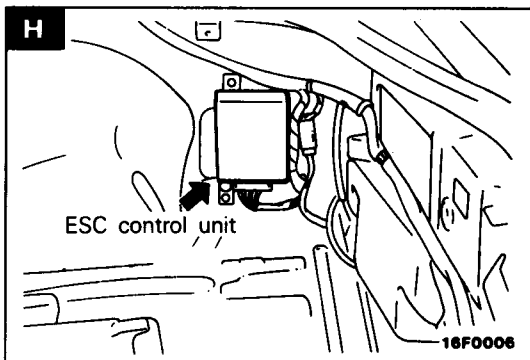
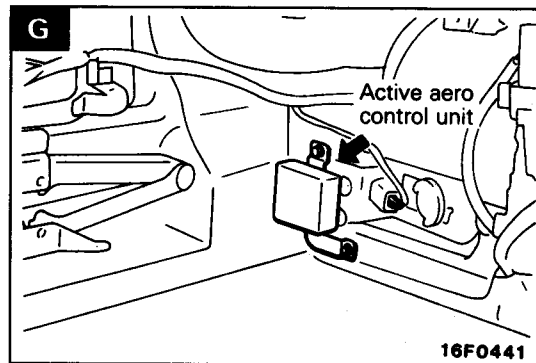
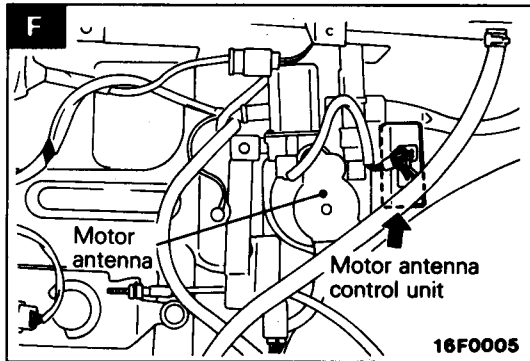
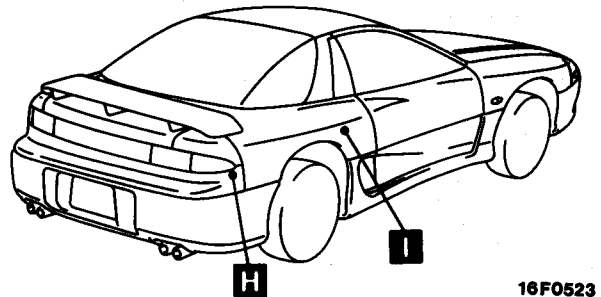
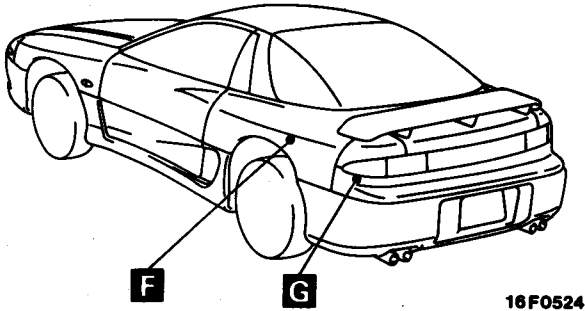


NOTE

For R.H. drive vehicles, only the positions indicated by the * are symmetrical.



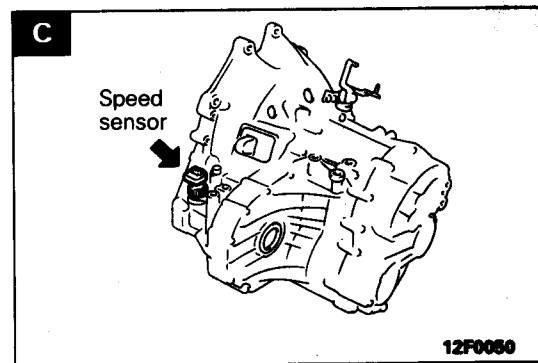
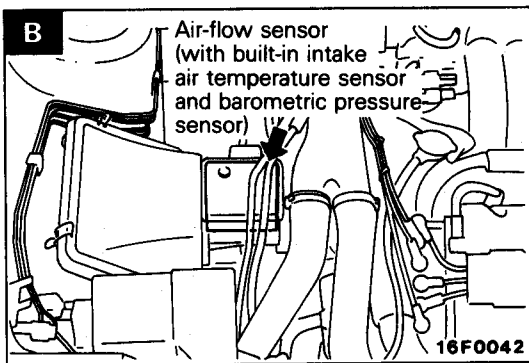
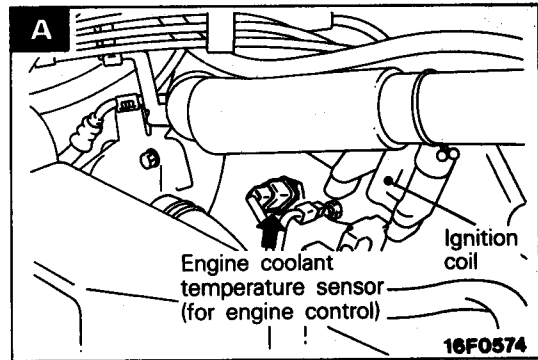
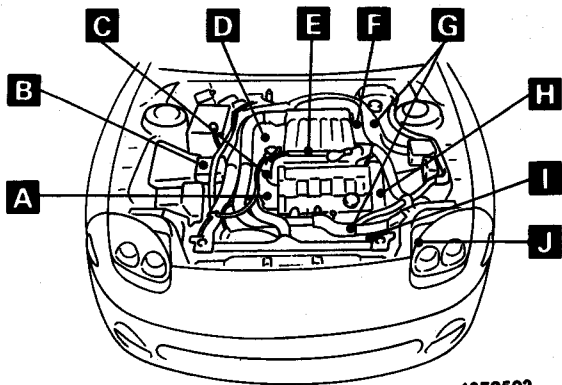
Quarter panel, luggage compartment

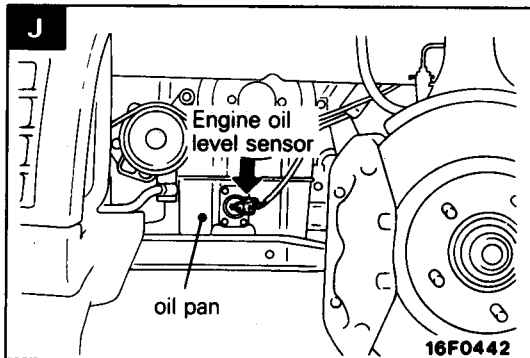
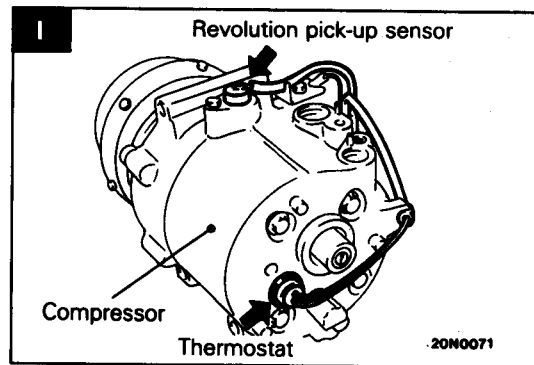
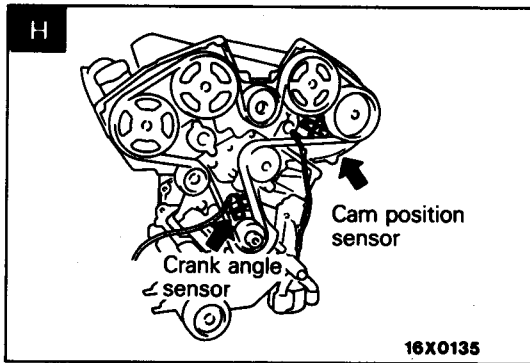
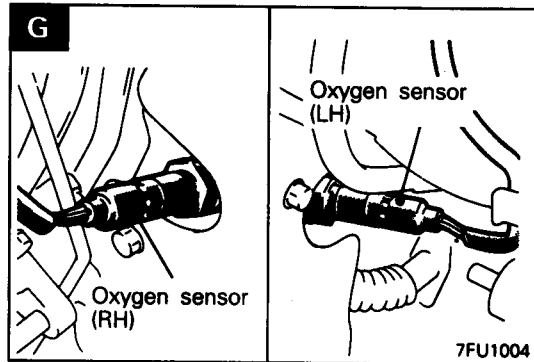
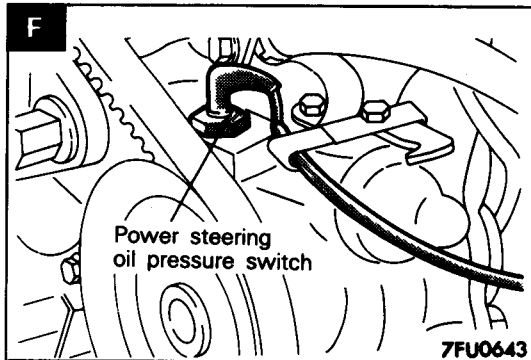
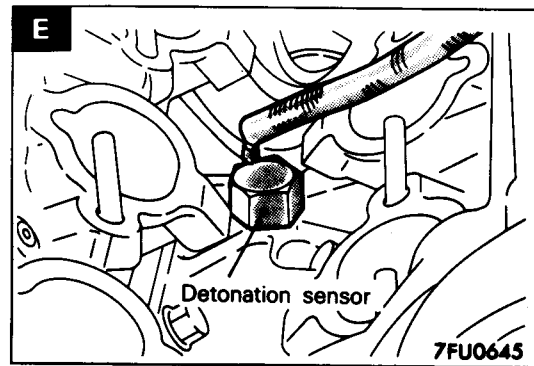
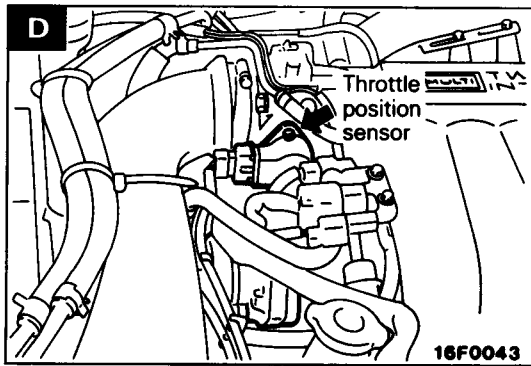


SENSOR

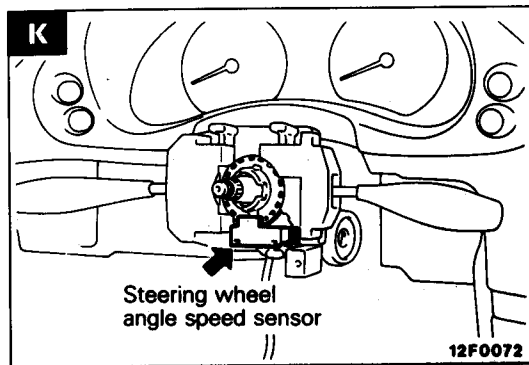
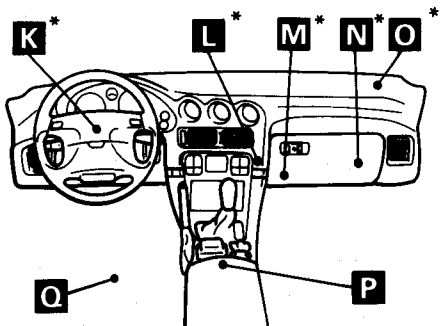
Name	Symbol	Name	Symbol
ABS front speed sensor	T	Engine coolant temperature sensor (for A/C)	L
ABS G sensor	P	Engine oil level sensor	J
ABS rear speed sensor	U	Interior temperature sensor	R
Air-flow sensor (with built-in barometric pressure sensor, intake air temperature sensor)	B	Oxygen sensor	G
		Photo sensor	O
Air inlet sensor (for A/C)	N	Power steering oil pressure switch	F
Air thermo sensor (for A/C)	M	Revolution pick-up sensor	I
Cam position sensor	H	Speed sensor	C
Crank angle sensor	H	SRS front impact sensor	S
Detonation sensor	E	Steering wheel angle speed sensor	K
ECS G sensor	Q	Thermostat	I
Engine coolant temperature sensor (for engine control)	A	Throttle position sensor	D

Engine compartment



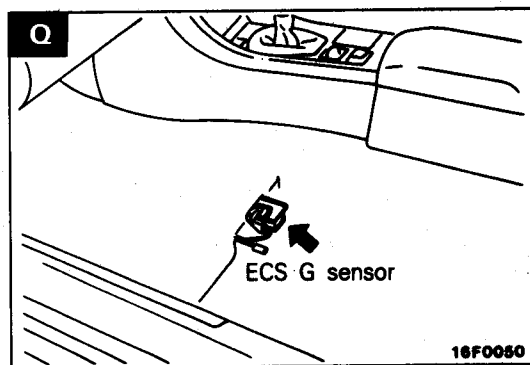
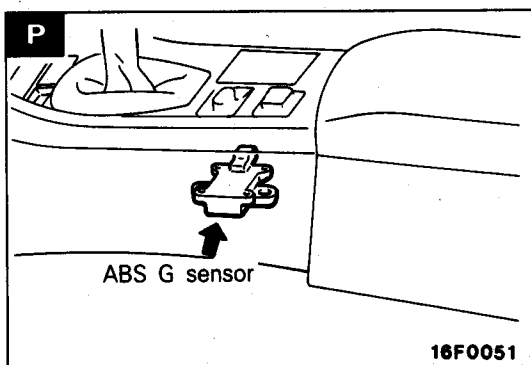
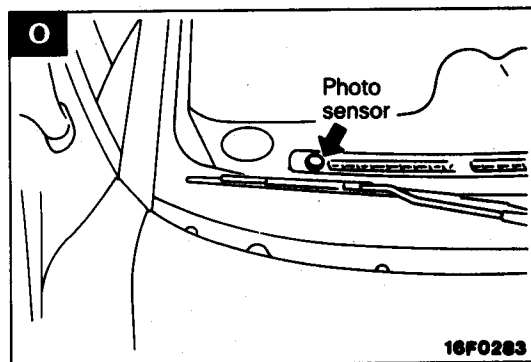
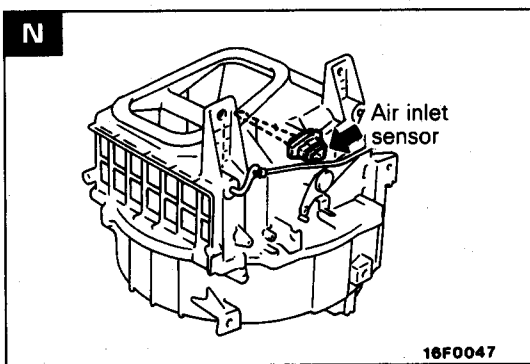
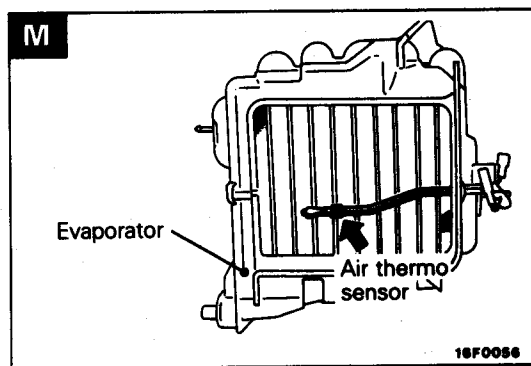
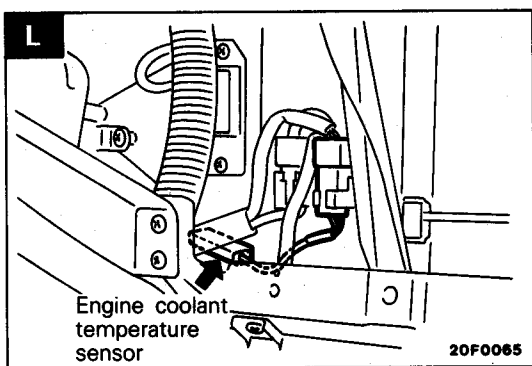


Instrument panel

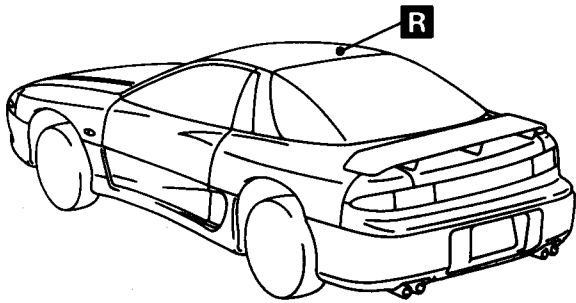


NOTE
For R.H. drive vehicles, only the positions indicated by the * are symmetrical.

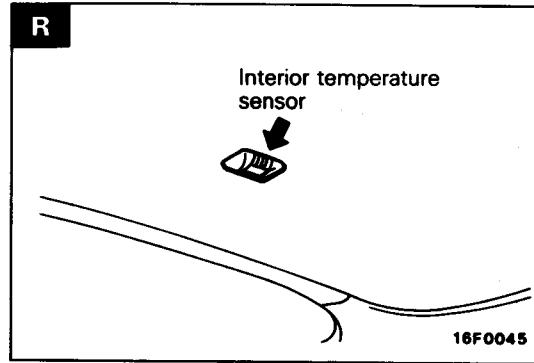
19F0134



Roof

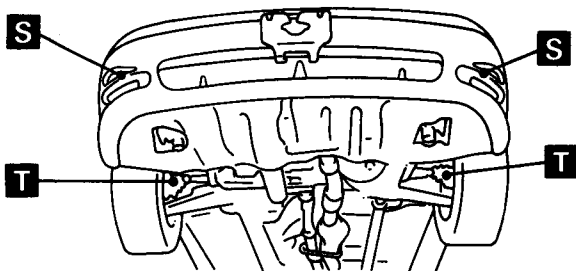


16F0524

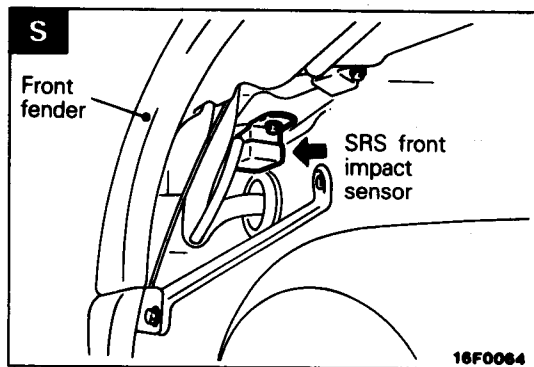


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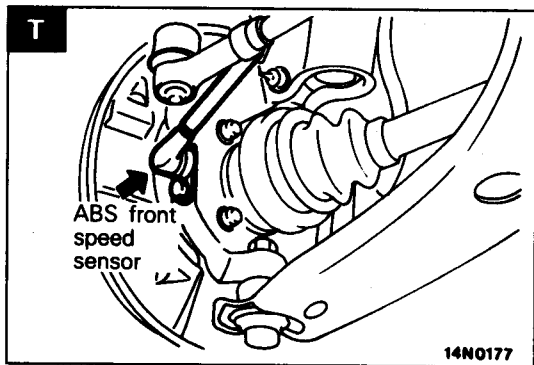
Front under floor



16F0536

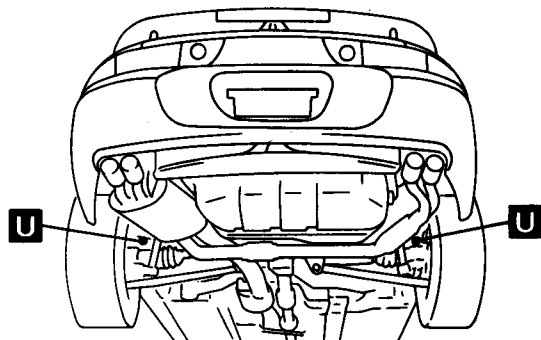


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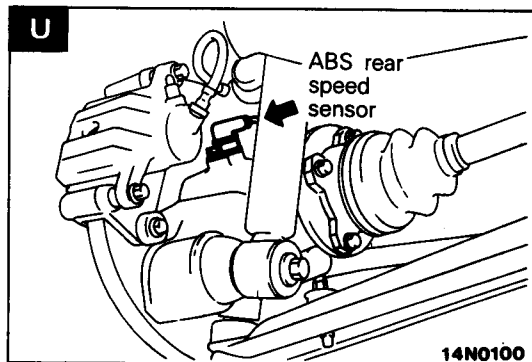


14N0177

Rear under floor



16F0535

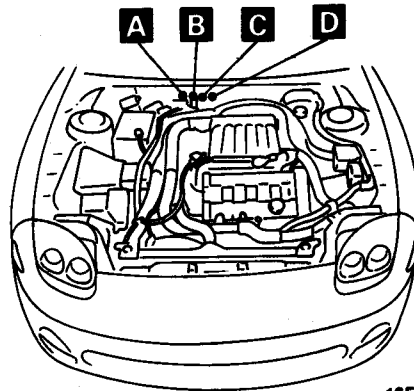


14N0100

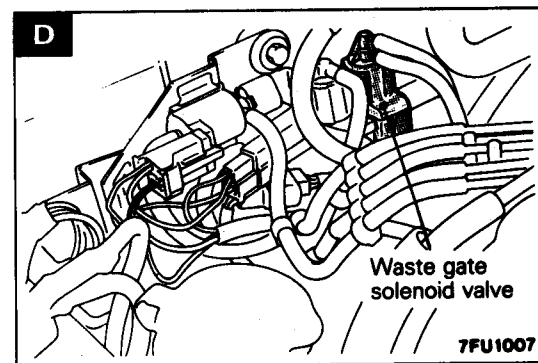
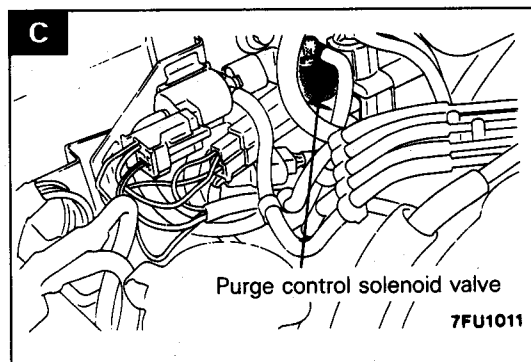
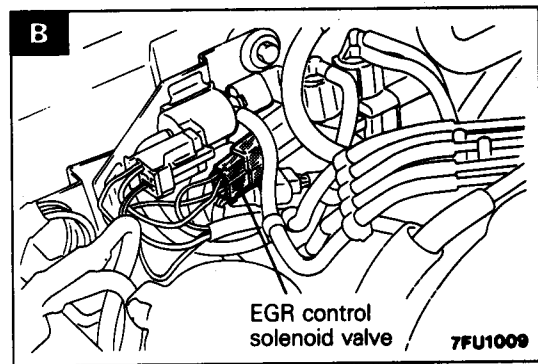
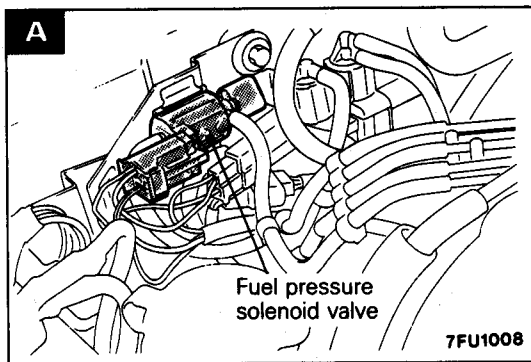
SOLENOID VALVE

Name	Symbol	Name	Symbol
EGR control solenoid valve	B	Purge control solenoid valve	C
Fuel pressure solenoid valve	A	Waste gate solenoid valve	D

Engine compartment



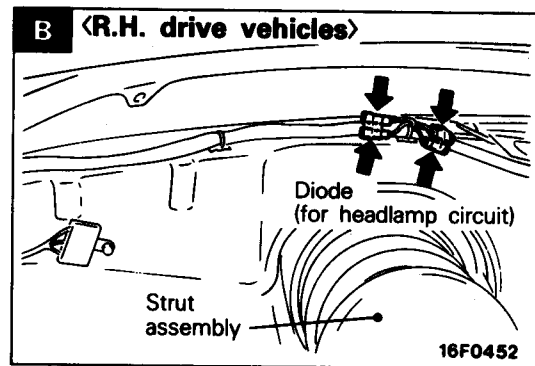
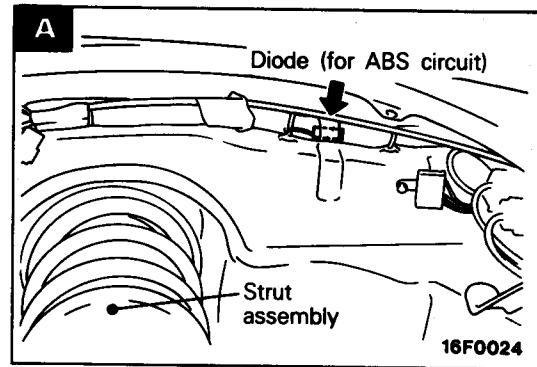
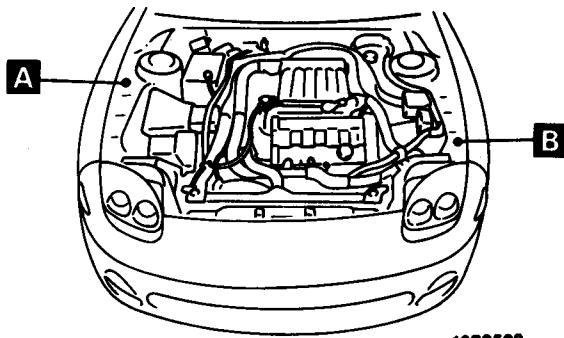
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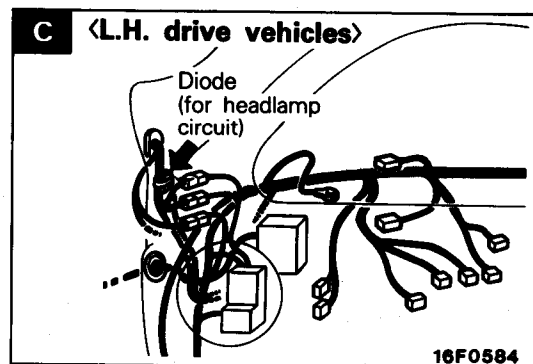
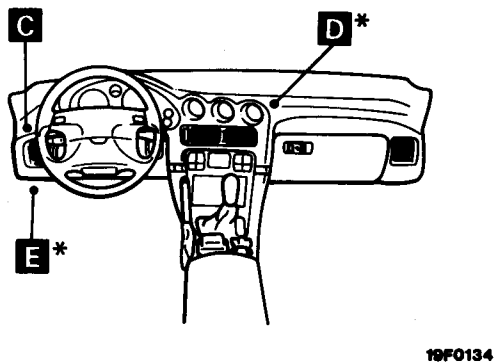
DIODE

Name	Symbol	Name	Symbol
Diode (for ABS circuit)	A	Diode (for MPI circuit)	E
Diode (for headlamp circuit)	B, C	Diode (for 4WS fluid level warning lamp circuit)	D

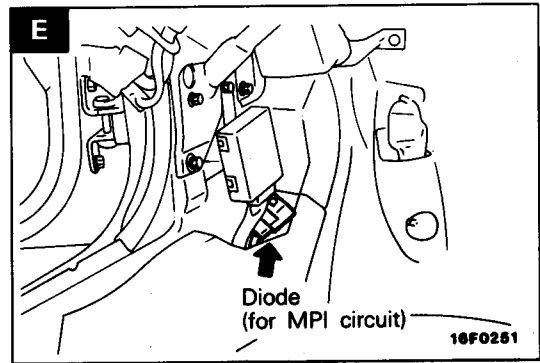
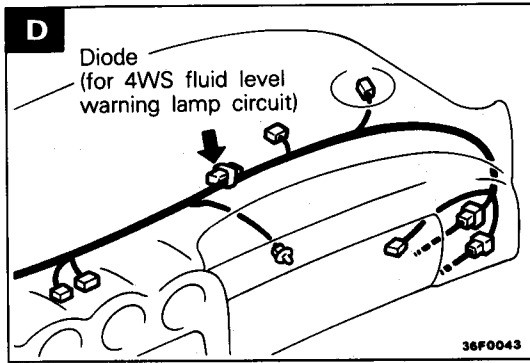
Engine compartment



Instrument panel



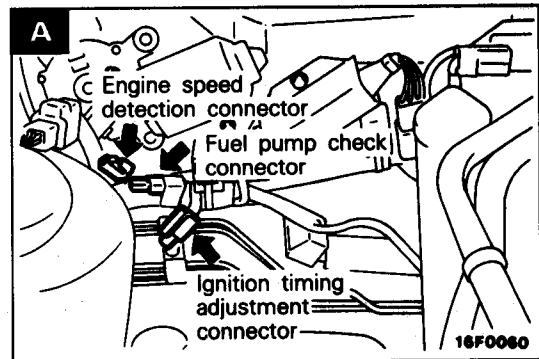
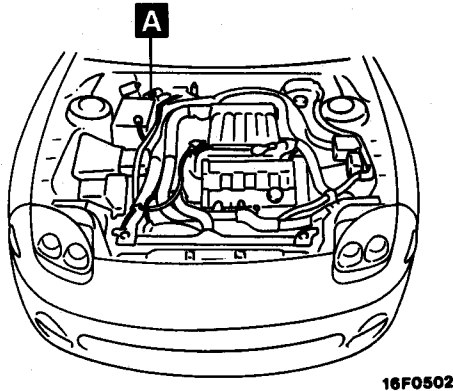
NOTE
For R.H. drive vehicles, only the positions indicated by the * are symmetrical.



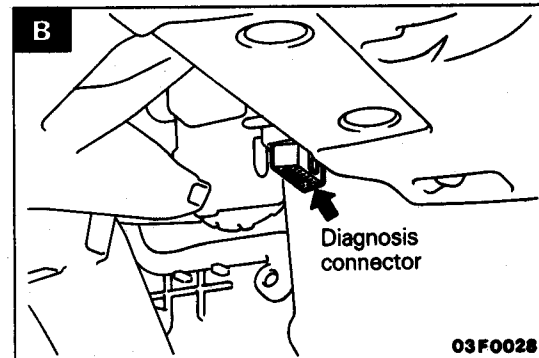
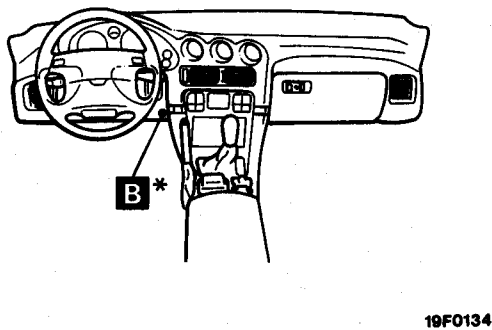
INSPECTION CONNECTOR

Name	Symbol	Name	Symbol
Diagnosis connector	B	Fuel pump check connector	A
Engine speed detection connector	A	Ignition timing adjustment connector	A

Engine compartment



Instrument panel

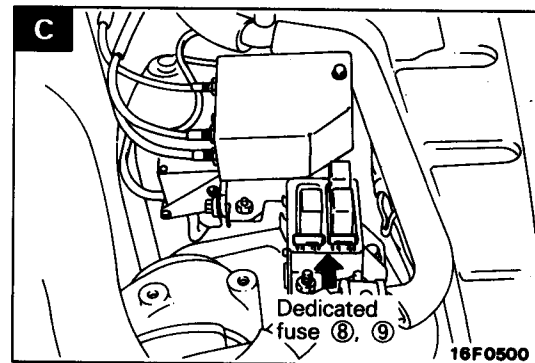
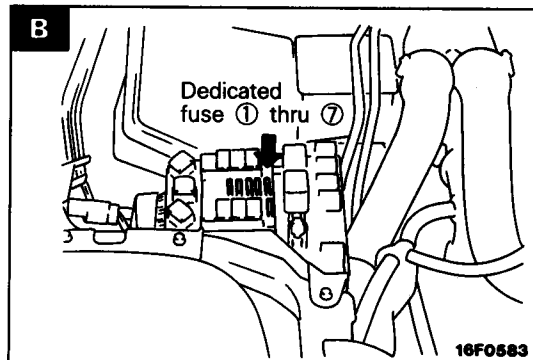
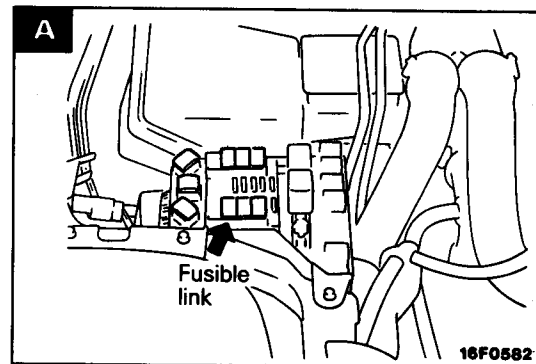
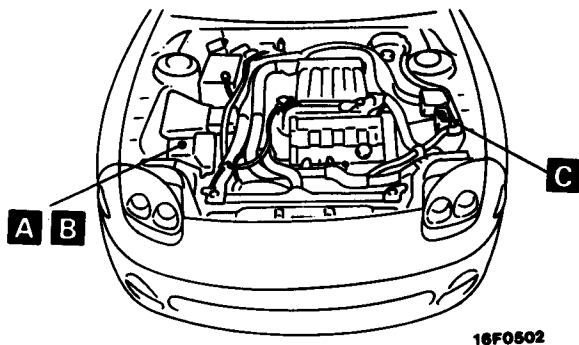


NOTE
For R.H. drive vehicles, only the positions indicated by the * are symmetrical.

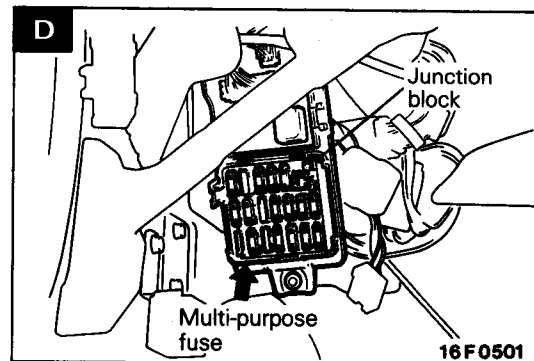
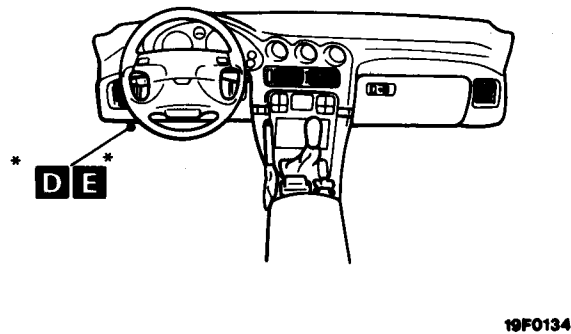
FUSIBLE LINK AND FUSE

Name	Symbol	Name	Symbol
Dedicated fuse ① thru ⑦	B	Fusible link	A
Dedicated fuse ⑧, ⑨	C	Multi-purpose fuse	D
Dedicated fuse ⑩	E		

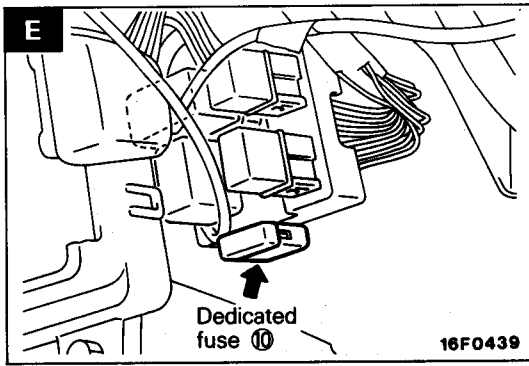
Engine compartment



Instrument panel

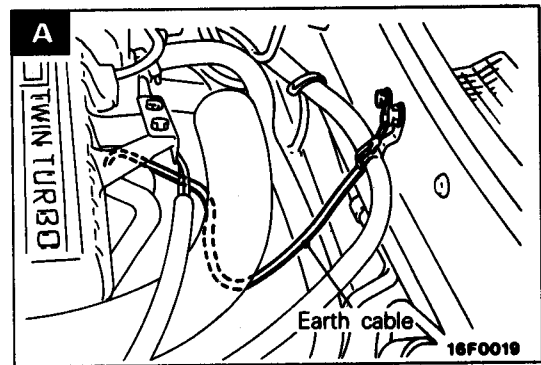
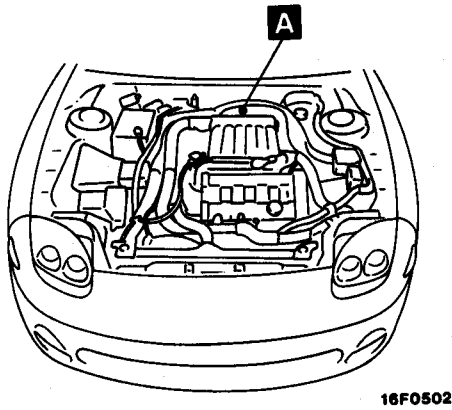


NOTE
For R.H. drive vehicles, only the positions indicated by the * are symmetrical.

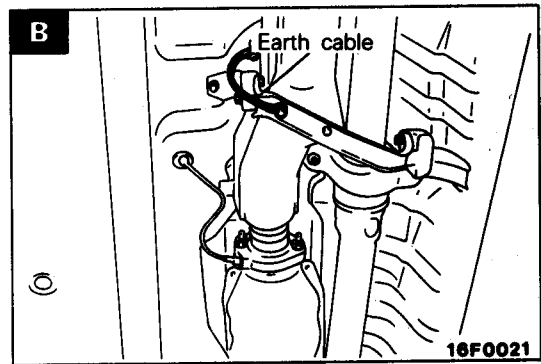
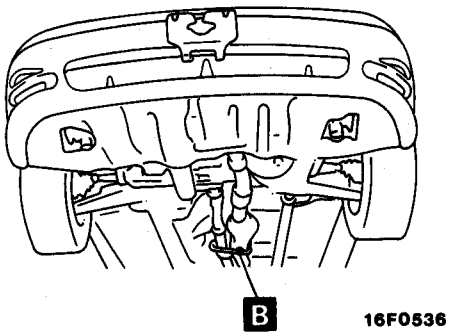


EARTH CABLE

Engine compartment

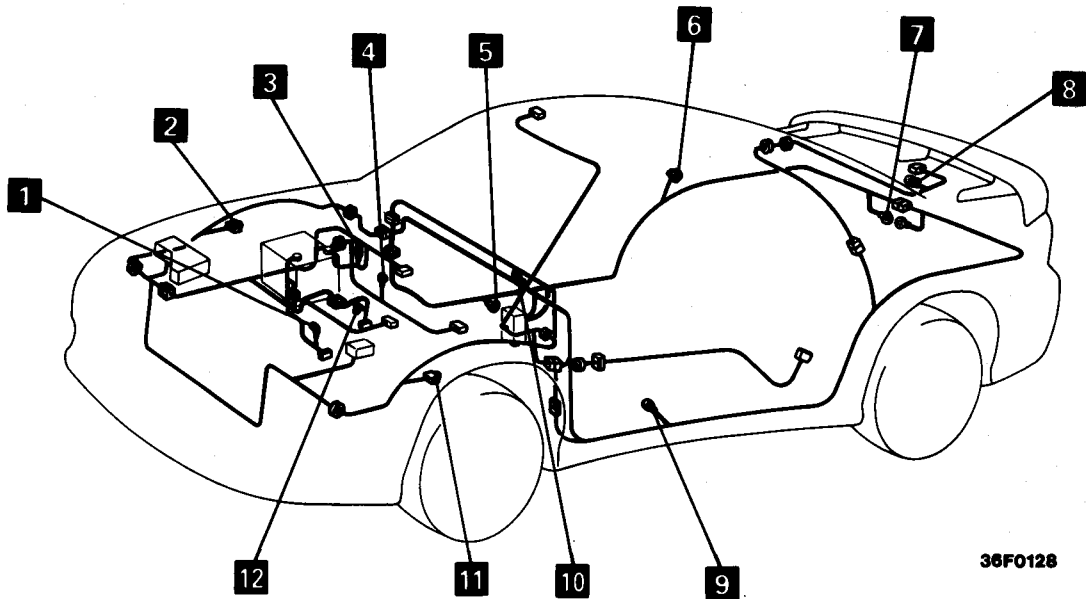


Front under floor

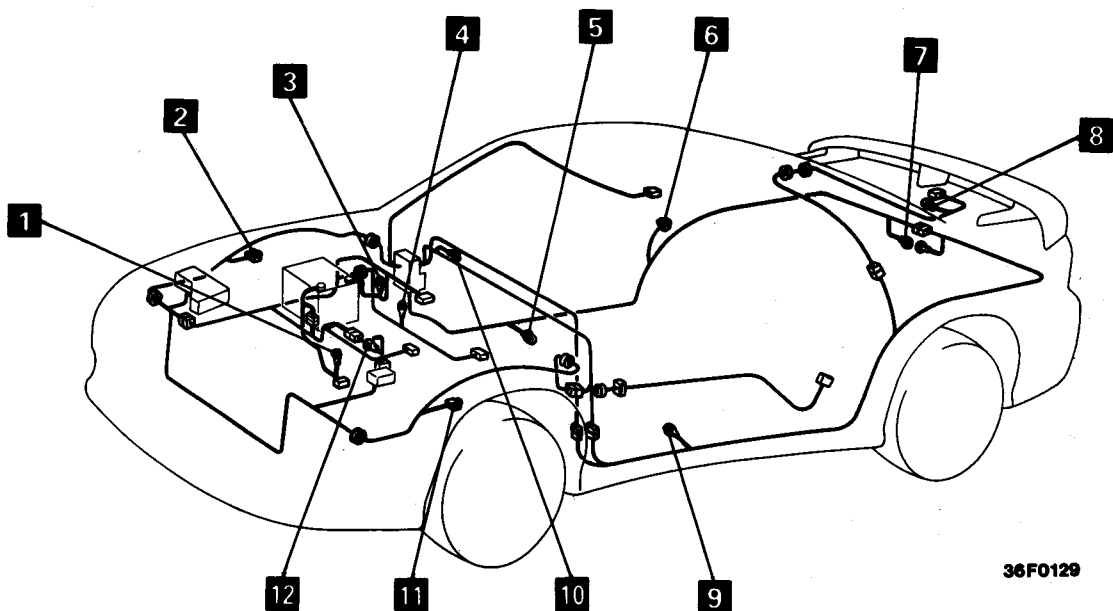


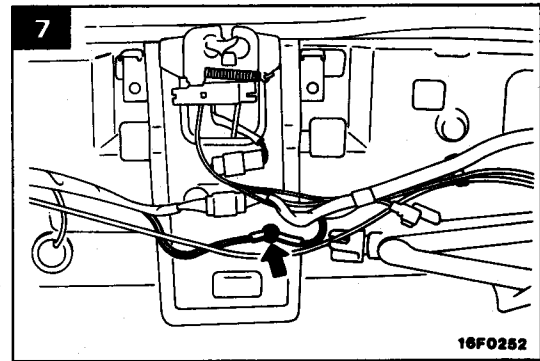
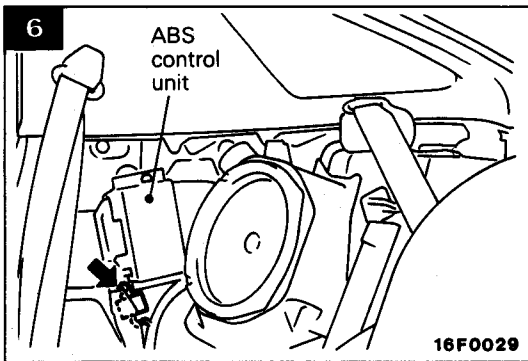
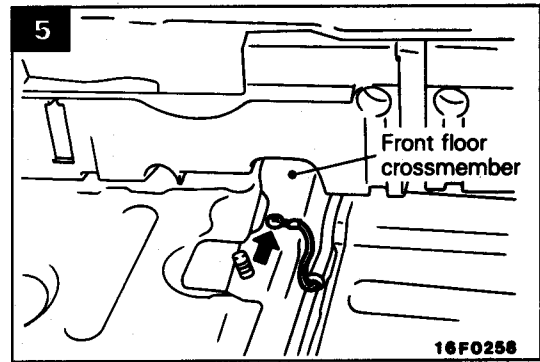
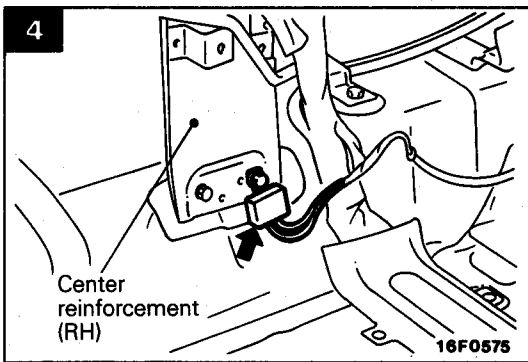
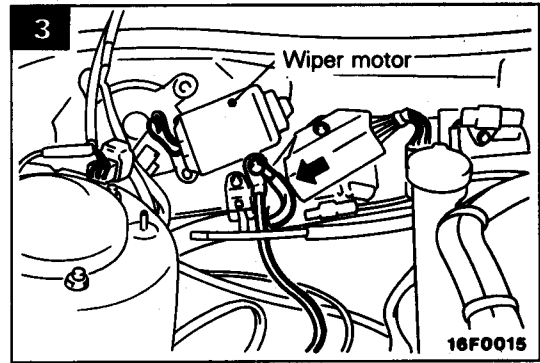
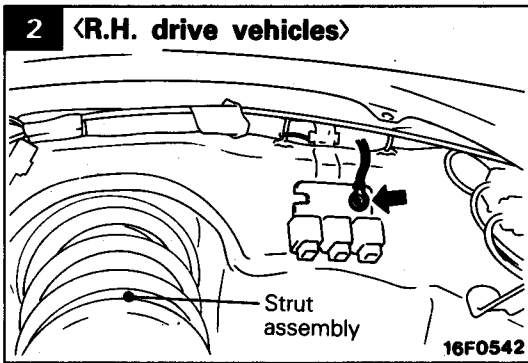
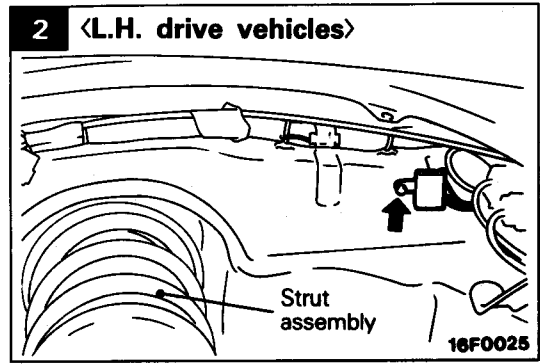
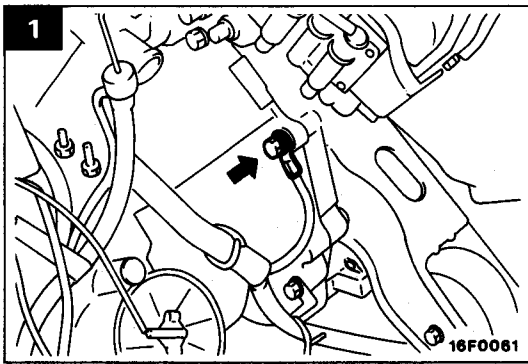
EARTH

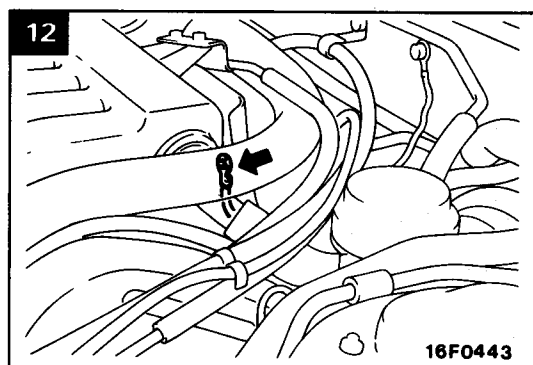
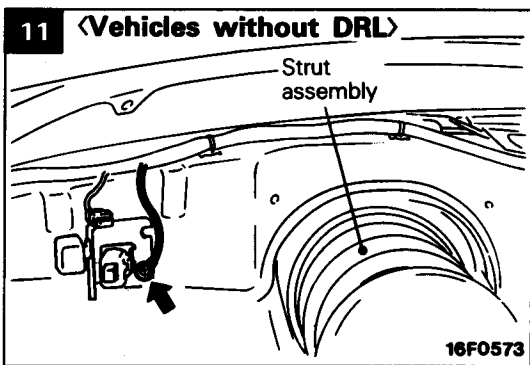
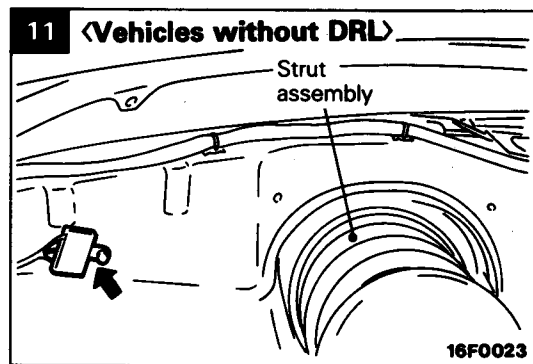
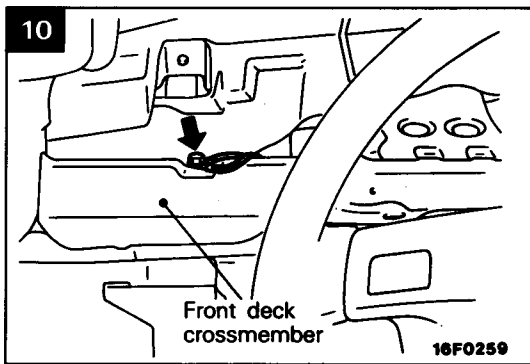
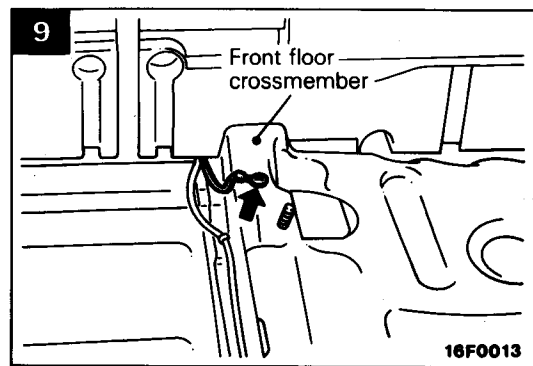
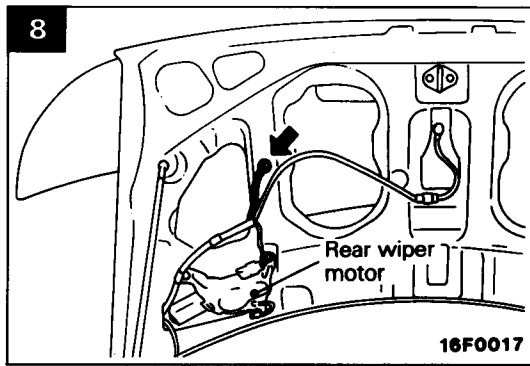
<L.H. drive vehicles>



<R.H. drive vehicles>







4 CIRCUIT DIAGRAM

JUNCTION BLOCK	4-4	BACK-UP LAMP	
CENTRALIZED JUNCTION	4-6	L.H.drive vehicles	4-105
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GLOVE BOX LAMP AND INSPECTION LAMP	4-89	R.H.drive vehicles	4-154
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- L.H.drive vehicles 4-191
- R.H.drive vehicles 4-195

POWER SEAT

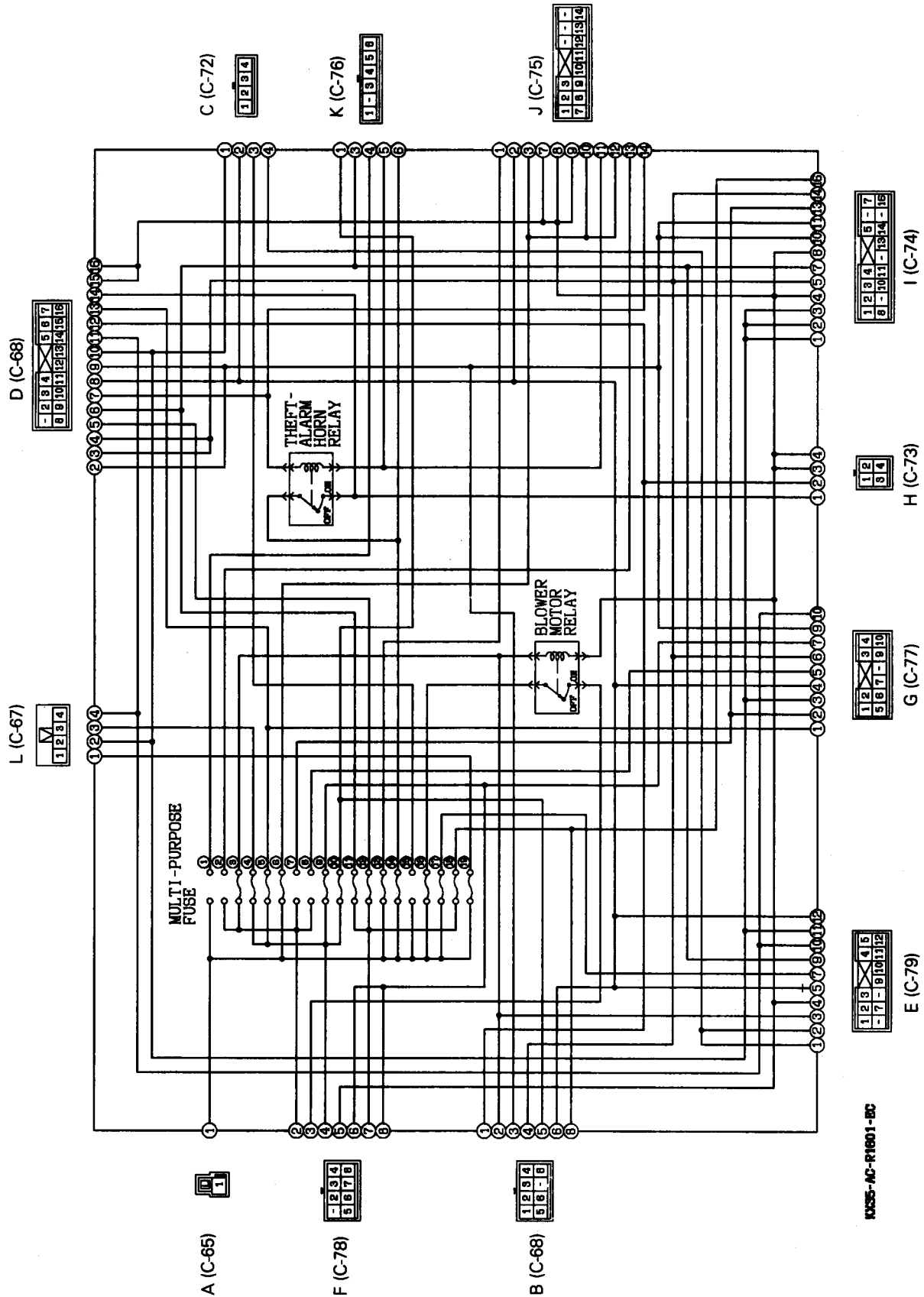
- L.H.drive vehicles 4-200
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THEFT-ALARM SYSTEM

- L.H.drive vehicles 4-204
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NOTES

JUNCTION BLOCK



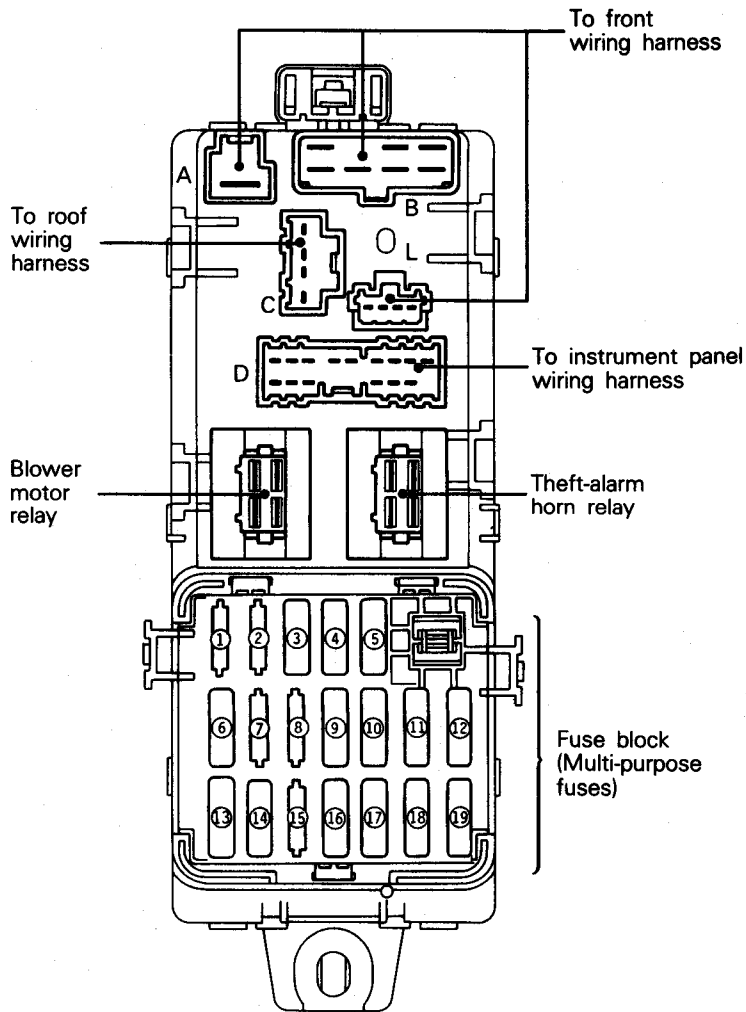
K355-AC-R1601-BC

Remark

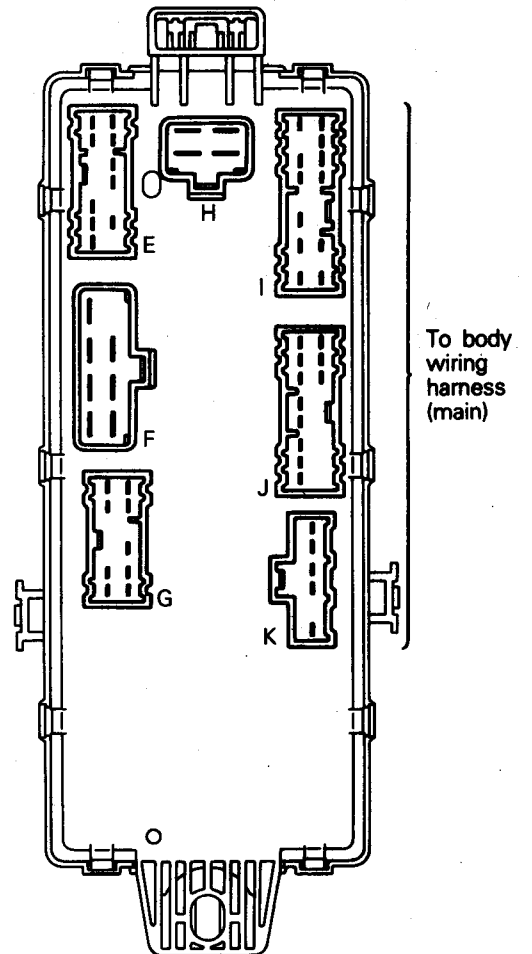
- Connector numbers are keyed to the configuration diagram (dash panel) and each circuit diagram.

Front

Back



16F0432

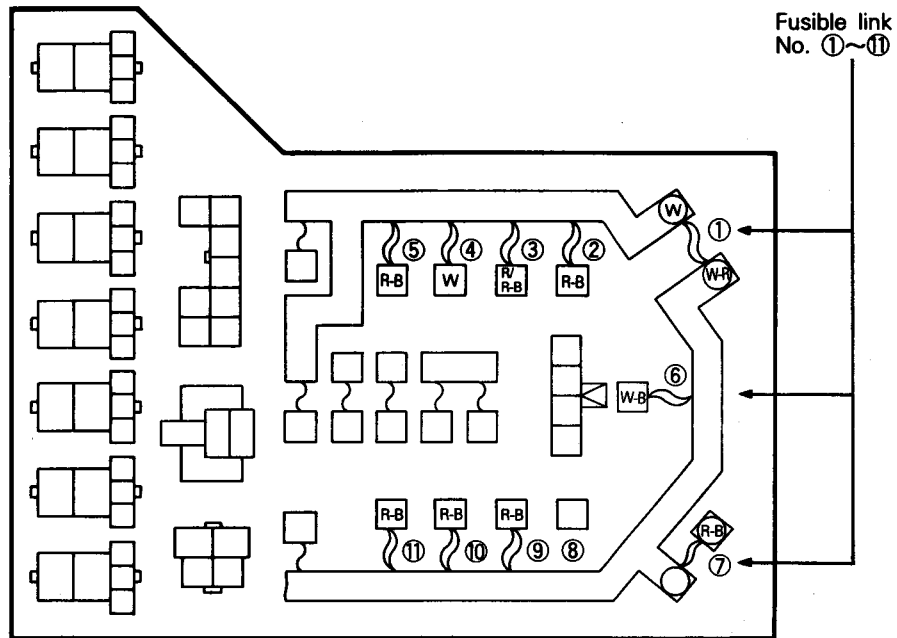


16F0058

CENTRALIZED JUNCTION

FUSIBLE LINK (Relay box in engine compartment)

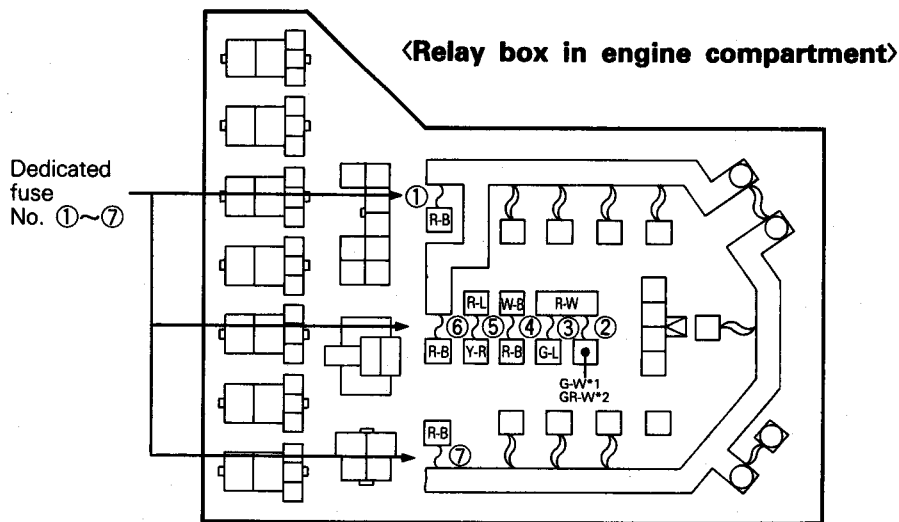
No.	Circuit	Housing colour	Rated capacity (A)
1	Alternator circuit, Fusible link No.⑥, ⑦, ⑨, ⑩, ⑪, Dedicated fuse ⑦	Wine red	120
2	Pop-up motor circuit	Pink	30
3	Lighting circuit	Green	40
4	Ignition switch circuit	Pink	30
5	Radiator fan motor and condenser fan motor circuit	Green	40
6	Junction block (Multipurpose fuse ⑥, ⑬, ⑭, ⑯, ⑰, ⑱), Dedicated fuse ④	Green	40
7	ABS circuit	Yellow	60
8	—	—	—
9	Power window circuit, Power seat circuit	Pink	30
10	Defogger circuit	Green	40
11	Active aero circuit	Pink	30



16F0434

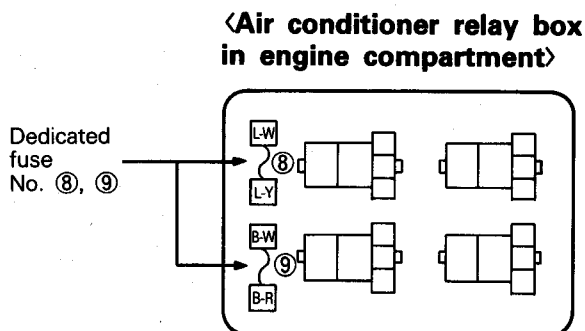
DEDICATED FUSE

Power supply circuit	No.	Rated capacity (A)	Housing colour	Circuit
Battery	1	20	Yellow	MPI circuit
Tail lamp relay	2	10	Red	Tail lamp circuit, Lighting monitor buzzer circuit <LHD>
	3	10	Red	Tail lamp circuit, Lighting monitor buzzer circuit <RHD>
Fusible link ⑥	4	10	Red	Horn circuit
Headlamp relay	5	10	Red	Upper beam circuit, Headlamp leveling circuit, Headlamp washer circuit, Rear fog lamp circuit
Battery	6	10	Red	Hazard lamp circuit
	7	10	Red	ABS circuit
Fusible link ⑤	8	20	Yellow	Condenser fan motor circuit
	9	10	Red	Air conditioner circuit
Defogger relay	10	10	Red	Remote controlled mirror heater circuit

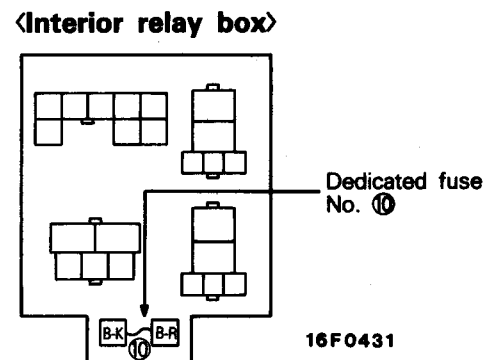


16F0434

NOTE
 (1) *1: L.H.drive vehicles.
 (2) *2: R.H.drive vehicles.



16F0002



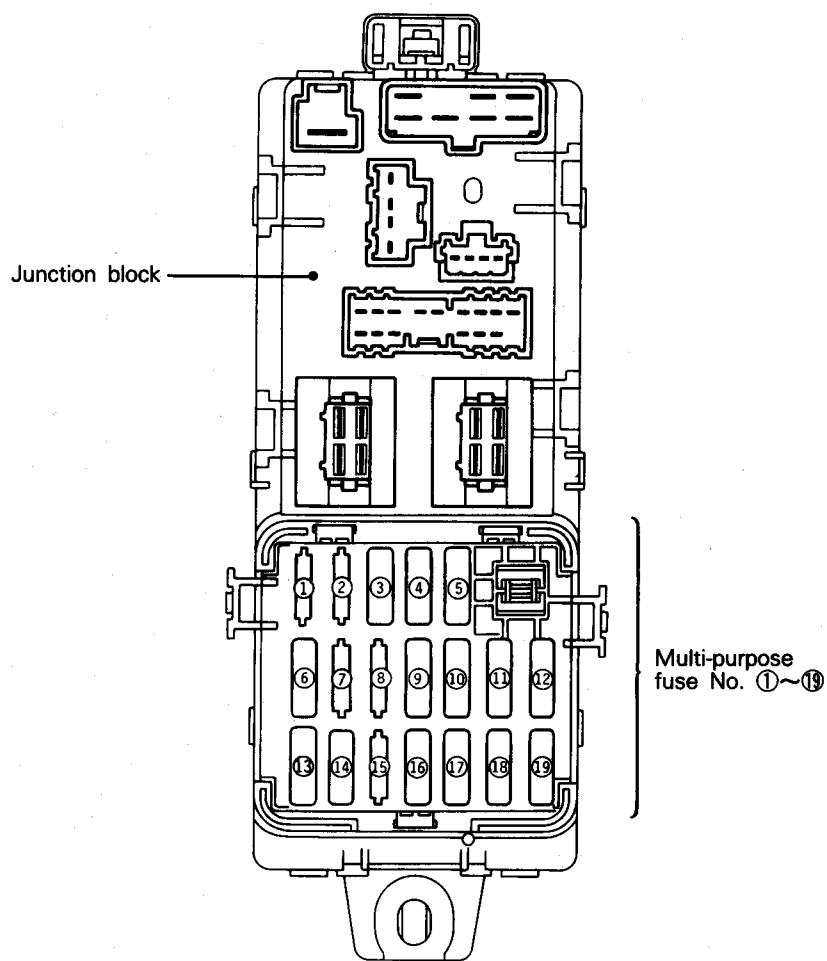
16F0431

MULTI-PURPOSE FUSE (In junction block)

Power supply circuit		No.	Rated capacity (A)	Load circuit
—		1	—	—
—		2	—	—
Ignition switch	IG ₂	3	10	ABS power relay, Air conditioner compressor lock controller, Air conditioner control unit, Blower motor relay, Condenser fan motor relay (HI), Daytime running lamp control unit, Daytime running lamp relay 2, Defogger relay, Dim-dip lamp relay 1, Electronic control suspension control unit, Headlamp washer relay, Power windows relay, Radiator fan motor relay
		4	10	Audio, Auto-cruise control unit, Motor antenna control unit, Clock
	ACC	5	15	Cigarette lighter, Remote controlled mirror
Battery		6	10	Door lock power relay, Motor antenna control unit, Headlamp pop-up switch
—		7	—	—
—		8	—	—
Ignition switch	ACC	9	15	Rear intermittent wiper relay, Washer motor, Wiper motor, Wiper relay
		10	15	Accessory socket*, ETACS control unit
	IG ₁	11	15	Active aero control unit, Auto-cruise control main switch, Auto-cruise control relay, Combination gauge, Combination meter, Engine oil level relay, ETACS control unit, Lighting monitor buzzer, Motor antenna control unit, Pop-up relay, Speed sensor, SRS diagnosis unit, Turn signal and hazard flasher unit, 4WS fluid level sensor
		12	15	Capacitor, Engine control relay, Engine control unit, Ignition coil, Power transistor
Battery		13	10	Rear fog lamp
		14	10	Theft-alarm horn, Theft-alarm horn relay
—		15	—	—
Battery		16	30	Blower motor
		17	15	Stop lamp
Ignition switch	IG ₁	18	10	Back-up lamp, SRS diagnosis unit
Battery		19	10	Active aero control unit, Air conditioner control unit, Auto-cruise control unit, Clock, Combination meter, Door lamp, Electronic control suspension control unit, Engine control unit, ETACS control unit, Foot lamp, Ignition key cylinder illumination lamp, Key reminder switch, Luggage compartment lamp, Radio and Tape player, Room lamp

NOTE

*: L.H.drive vehicles.



16F0432

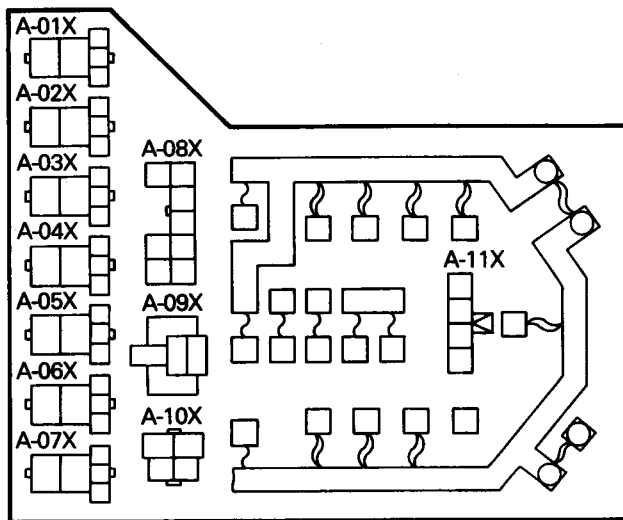
CENTRALIZED RELAY

Classification		Name	Classification		Name
Relay box in engine compartment	A-01X	Headlamp relay	Air conditioner relay box in engine compartment	A-44X	Condenser fan motor relay (HI)
	A-02X	ABS power relay		A-45X	Radiator fan motor control relay
	A-03X	Driving lamp relay		A-46X	Magnetic clutch relay
	A-04X	Radiator fan motor relay (LO)		A-47X	Condenser fan motor relay (LO)
	A-05X	Tail lamp relay		Interior relay box	C-04X
	A-06X	Horn relay	C-05X		Rear fog lamp relay
	A-07X	Radiator fan motor relay (HI)	C-06X		Defogger relay
	A-08X	Pop-up motor relay	C-07X		Power windows relay
	A-09X	Starter relay*	—		—
	A-10X	Alternator relay			
	A-11X	Storage connector			

NOTE

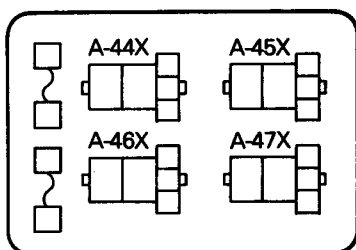
*: Vehicles with theft-alarm system.

⟨Relay box in engine compartment⟩



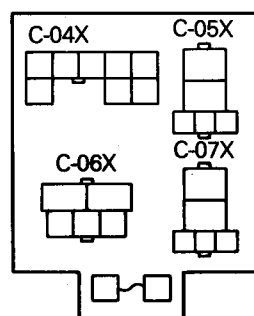
16F0434

⟨Air conditioner relay box in engine compartment⟩



16F0002

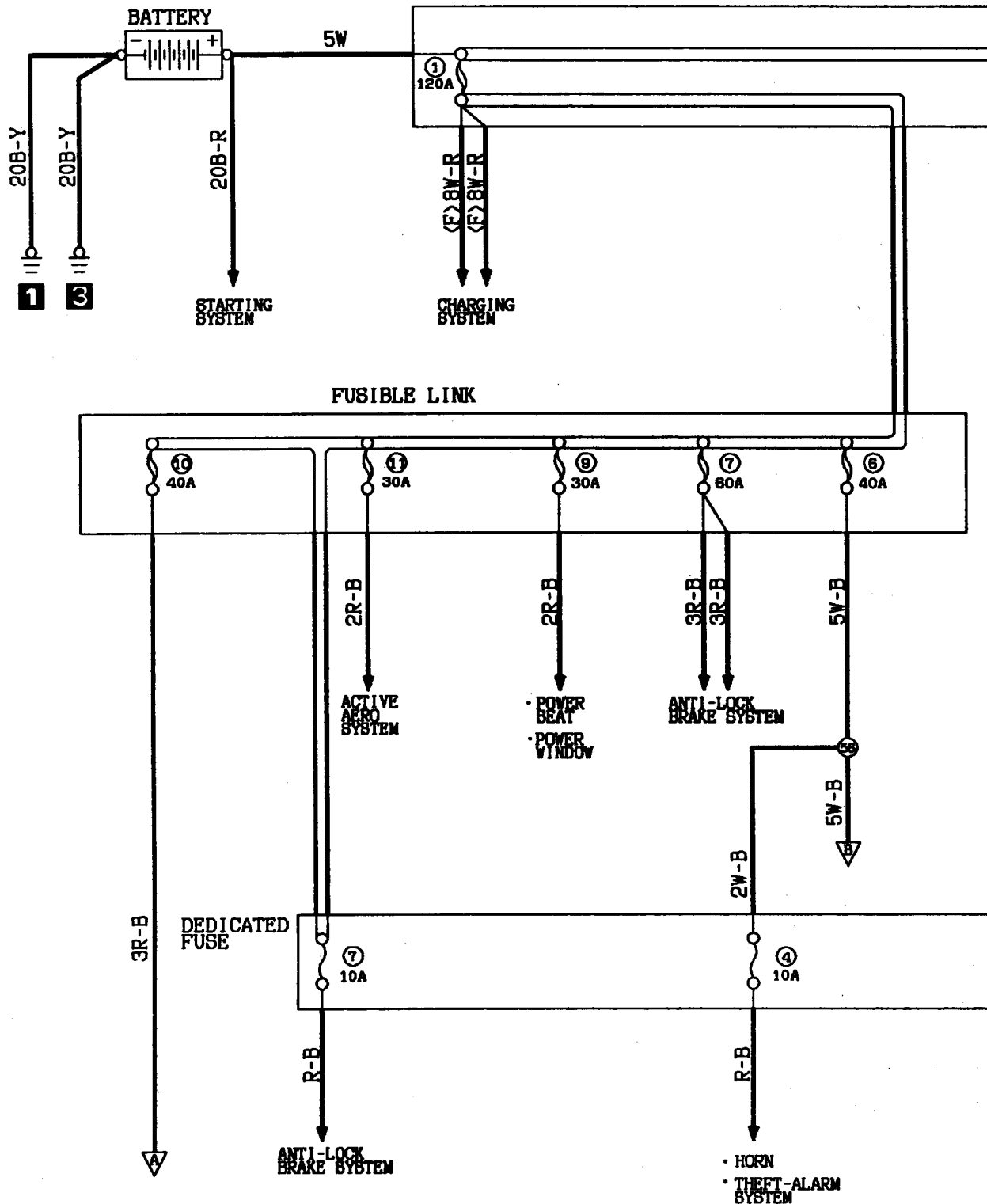
⟨Interior relay box⟩



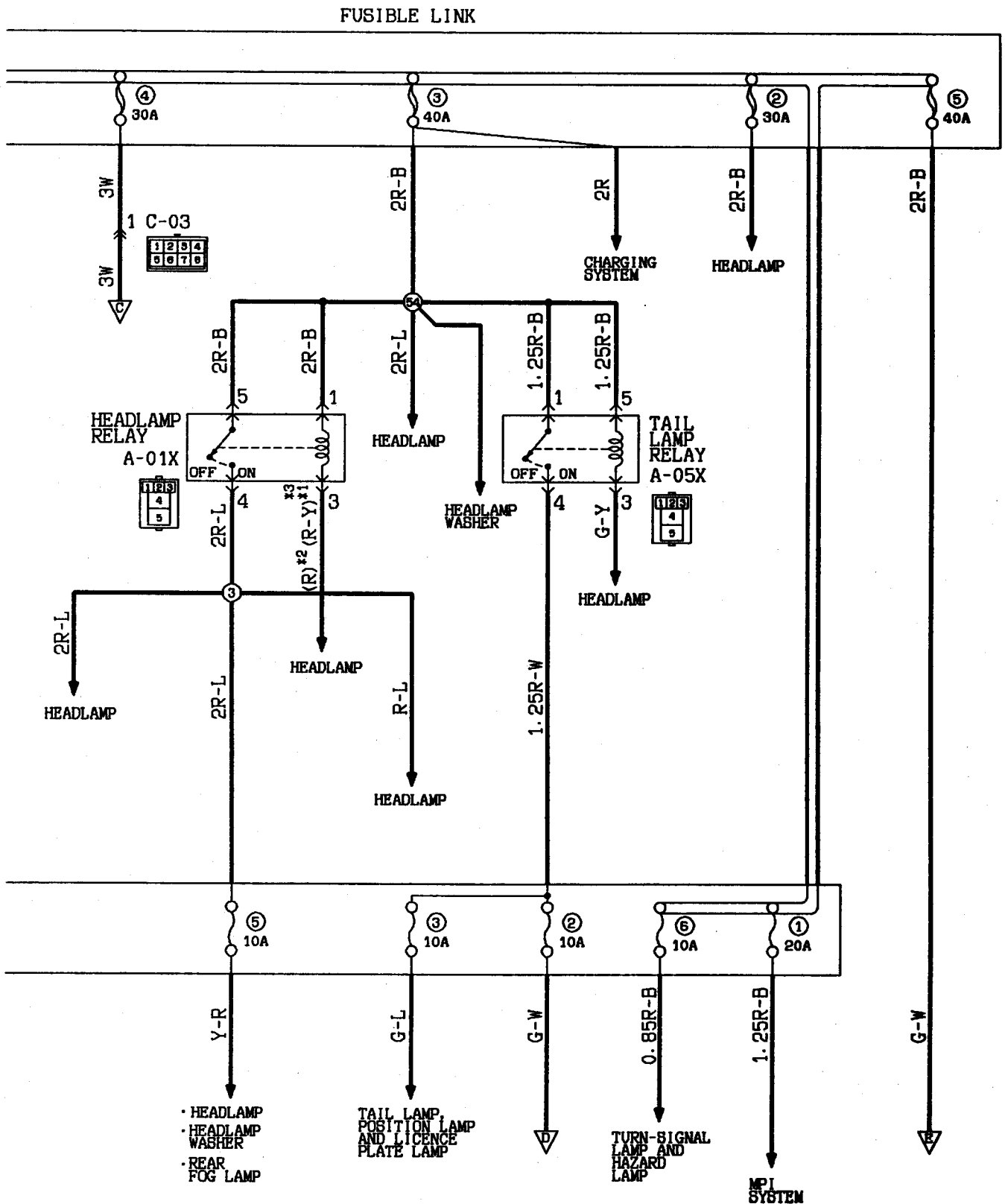
16F0431

NOTES

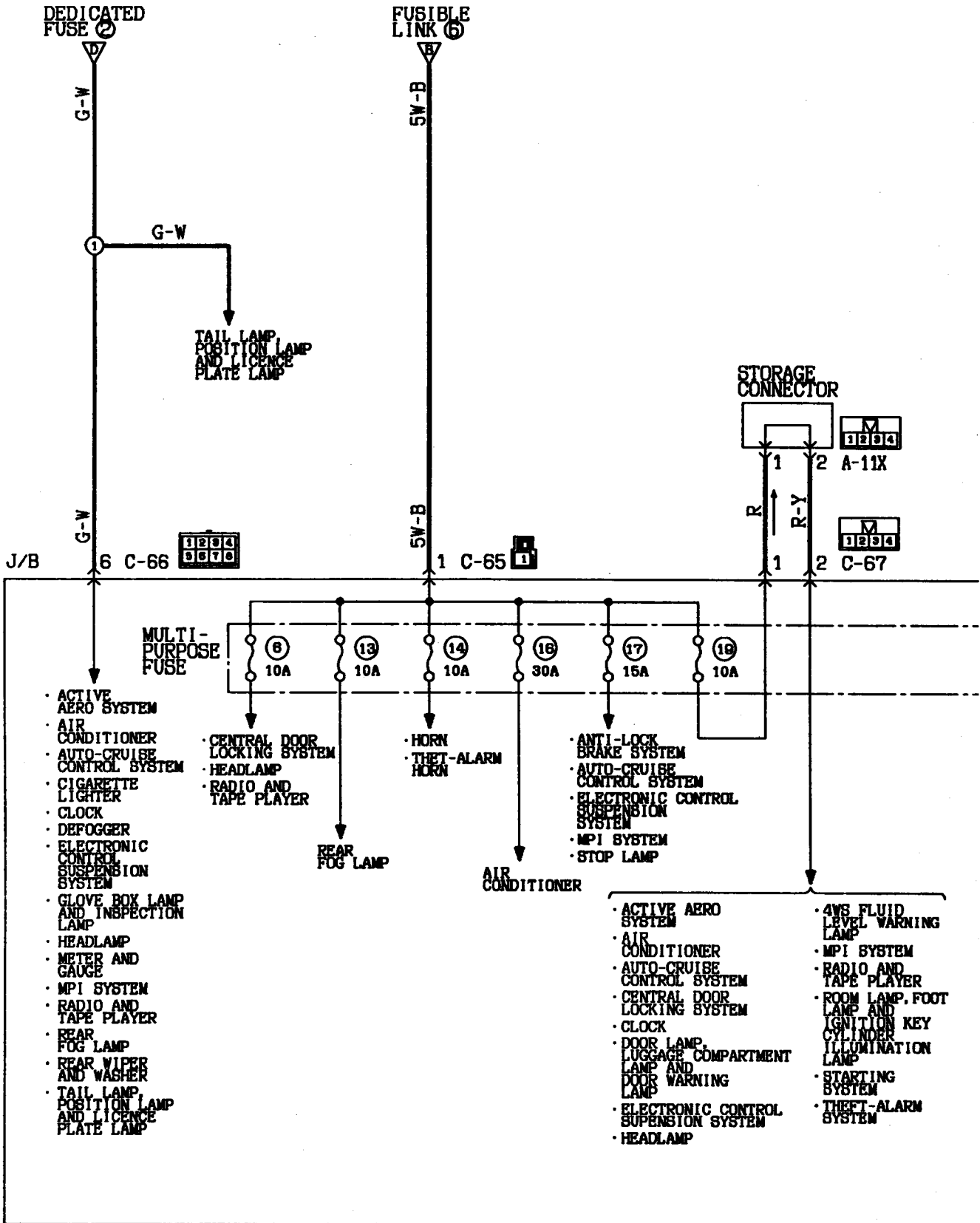
POWER DISTRIBUTION SYSTEM
 (L. H. drive vehicles)



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



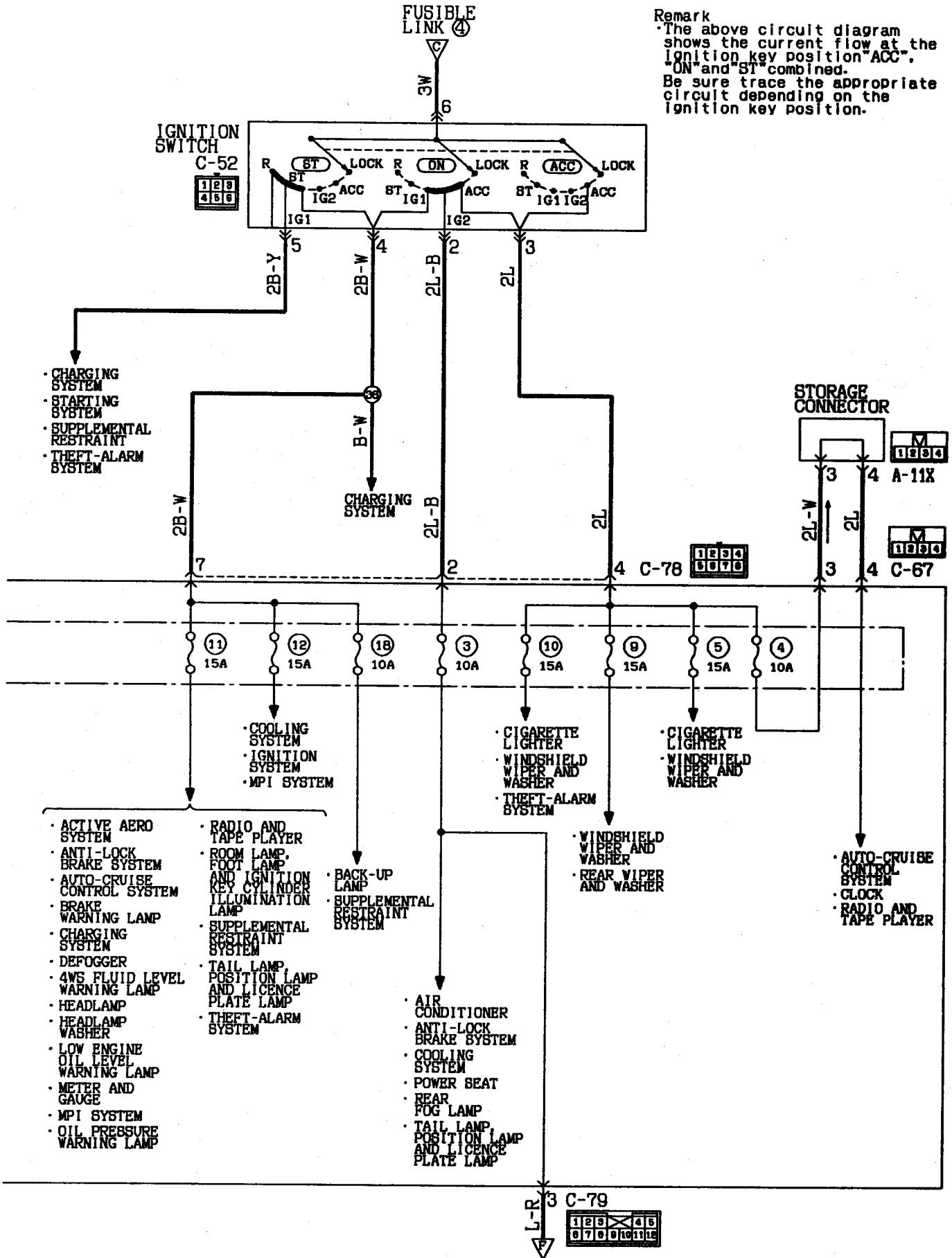
*1: Vehicles without daytime running lamp and theft-alarm system.
 *2: Vehicles without daytime running lamp and with theft-alarm system.
 *3: Vehicles with daytime running lamp.



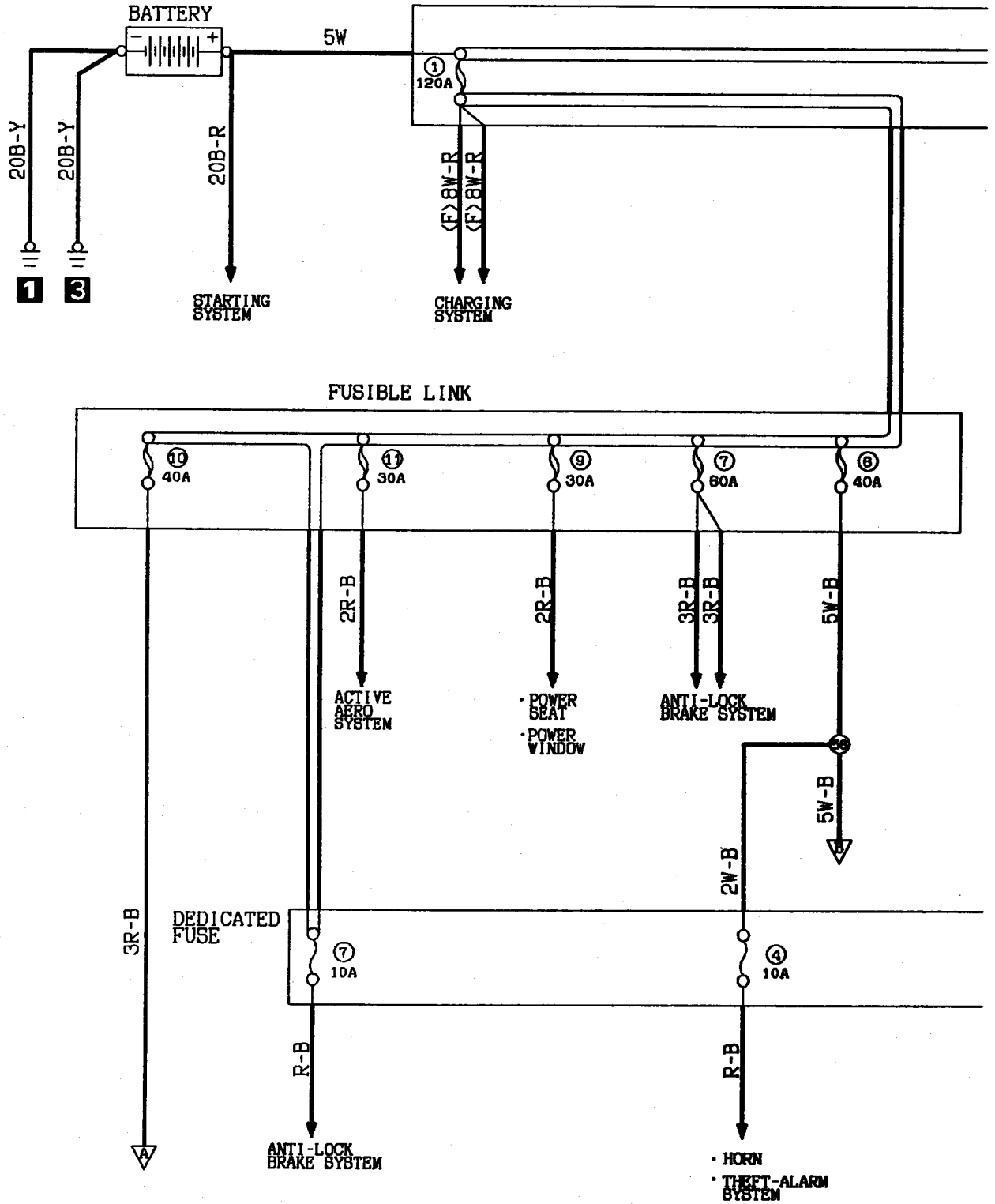
Wire colour code
 B:Black LG:Light green G:Green L:Blue
 BR:Brown O:Orange GR:Gray R:Red

W:White Y:Yellow SB:Sky blue
 P:Pink V:Violet

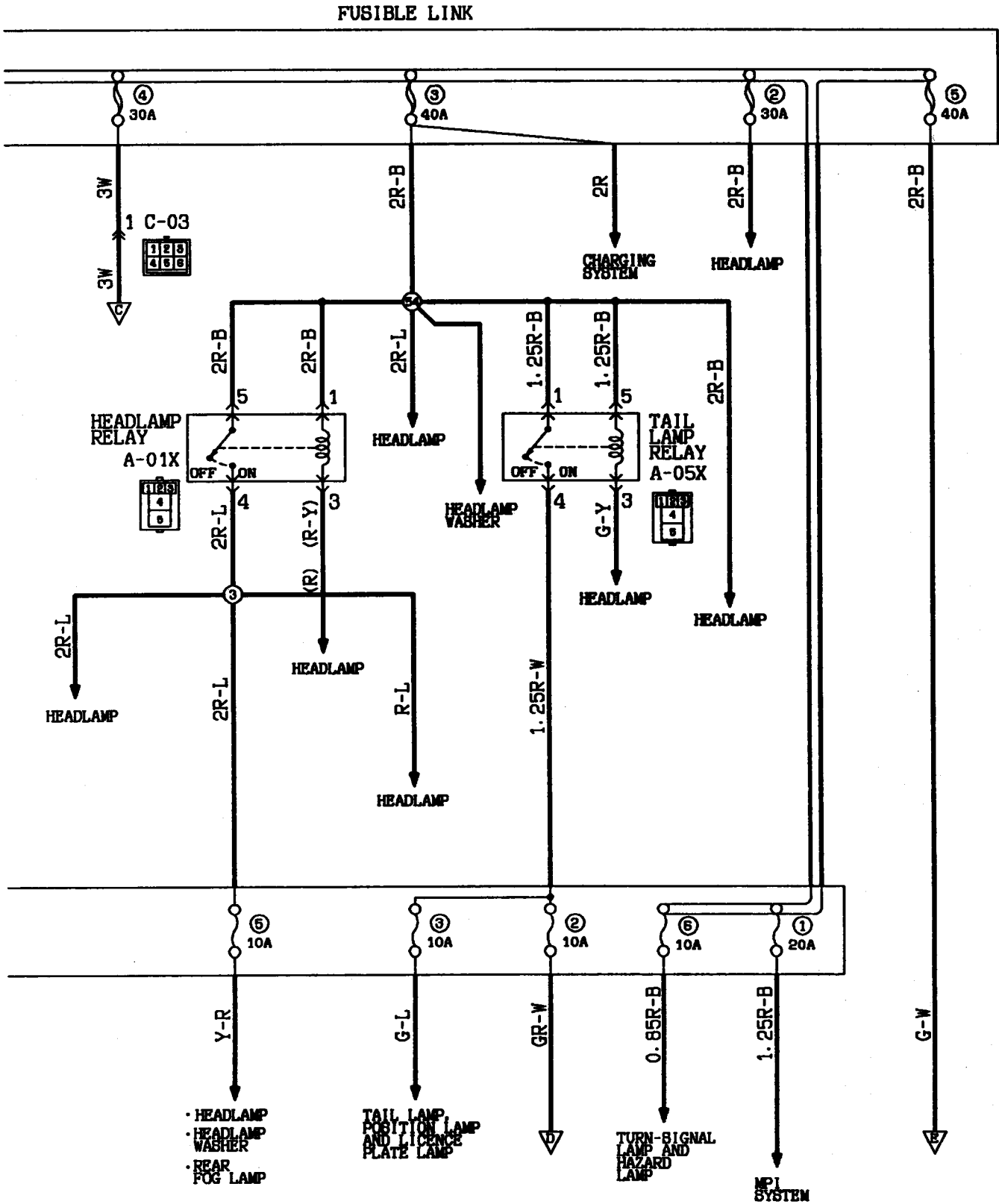
Remark
 The above circuit diagram shows the current flow at the ignition key position "ACC", "ON" and "ST" combined. Be sure trace the appropriate circuit depending on the ignition key position.

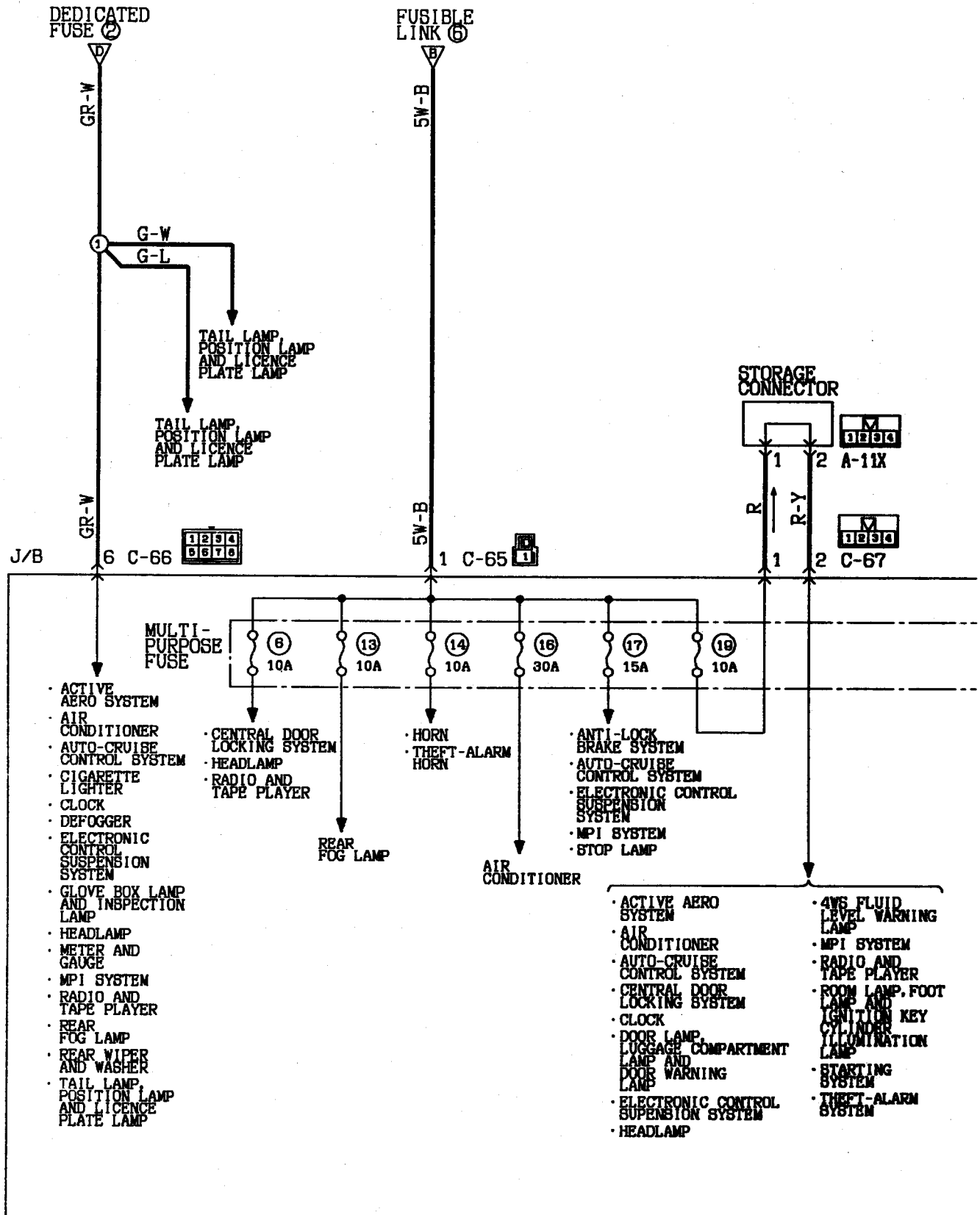


POWER DISTRIBUTION SYSTEM
 (R. H. drive vehicles)



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





Wire colour code

B:Black LG:Light green

G:Green

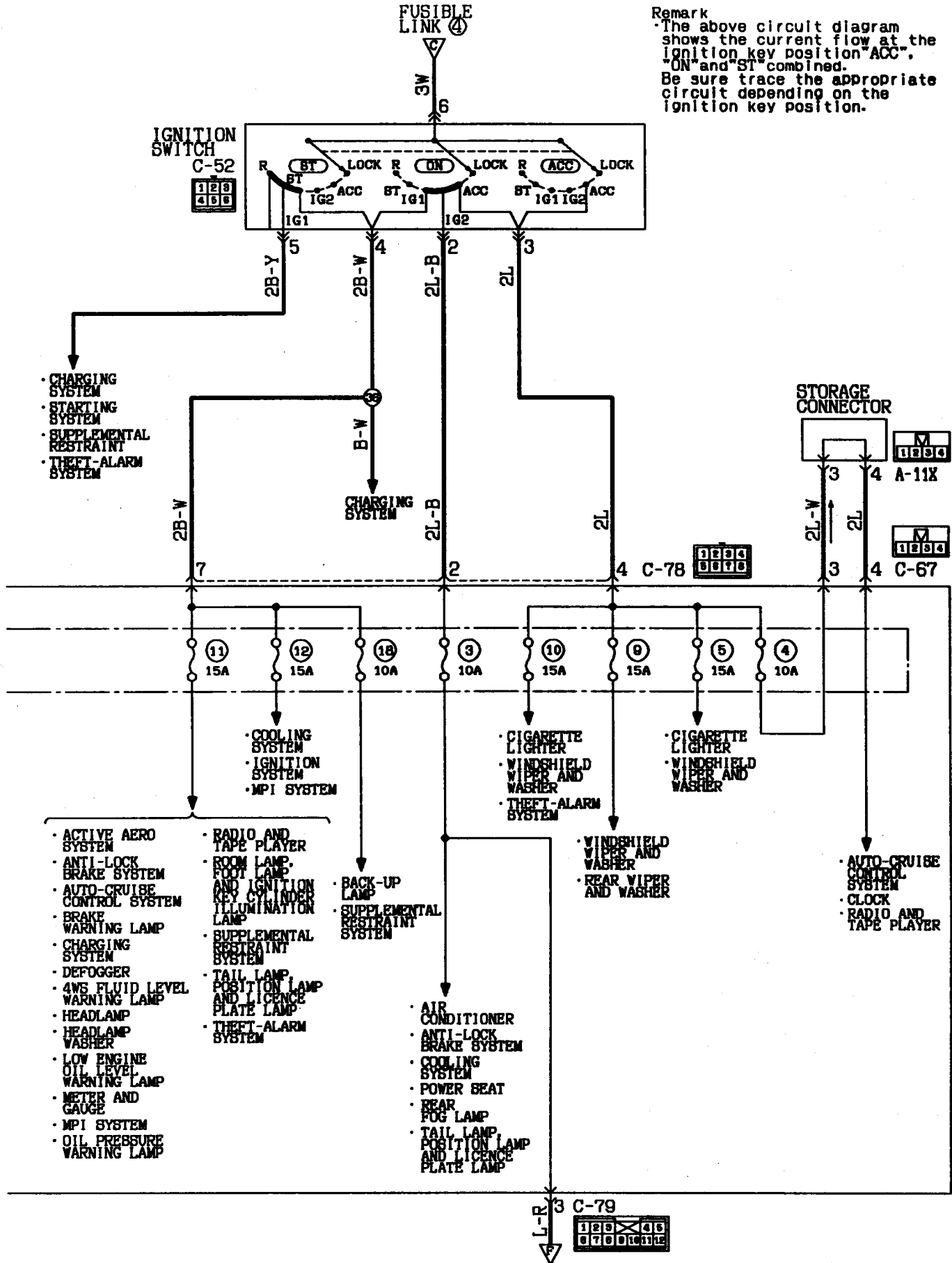
L:Blue

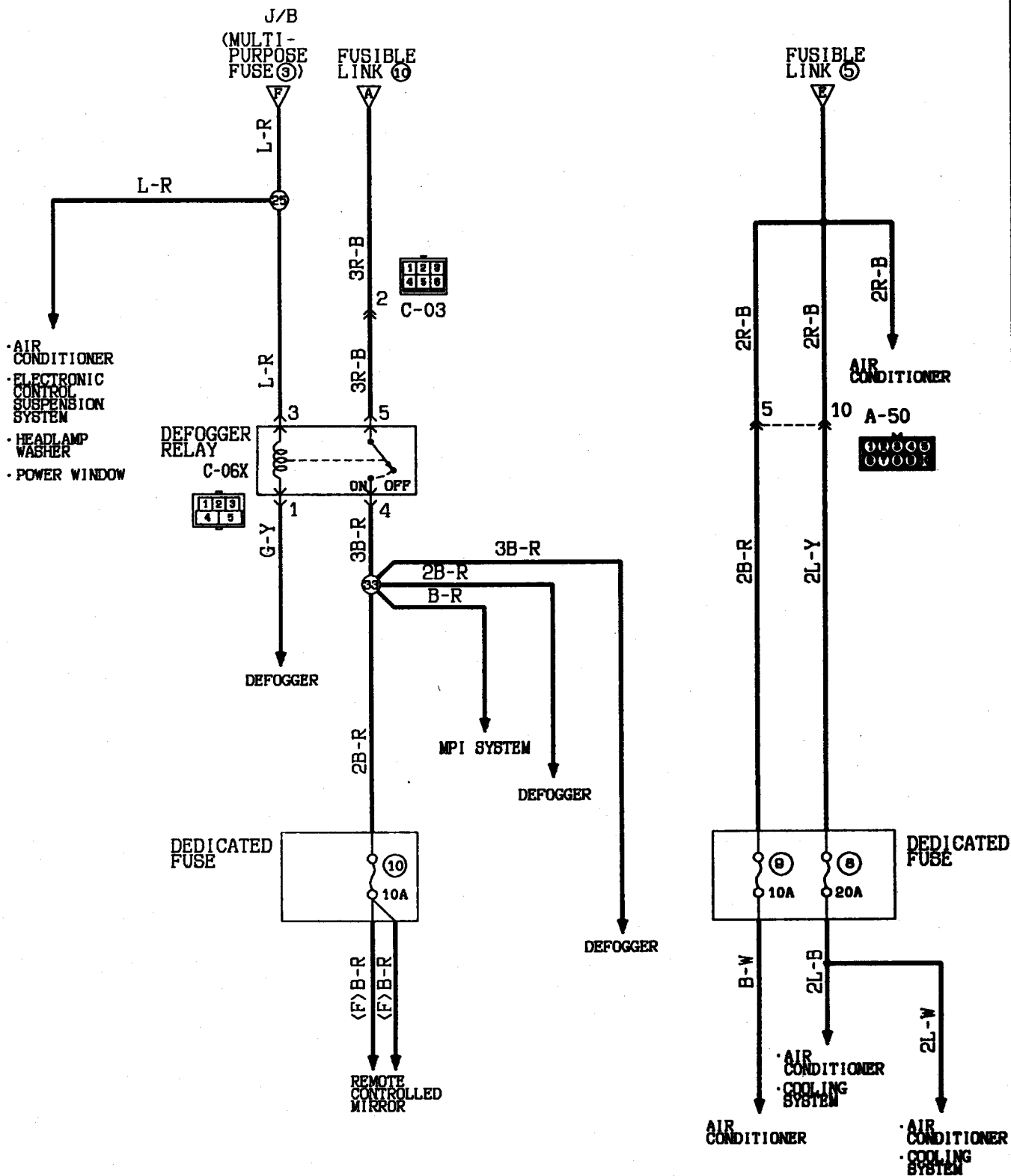
Y:White

P:Pink

BB:Sky blue

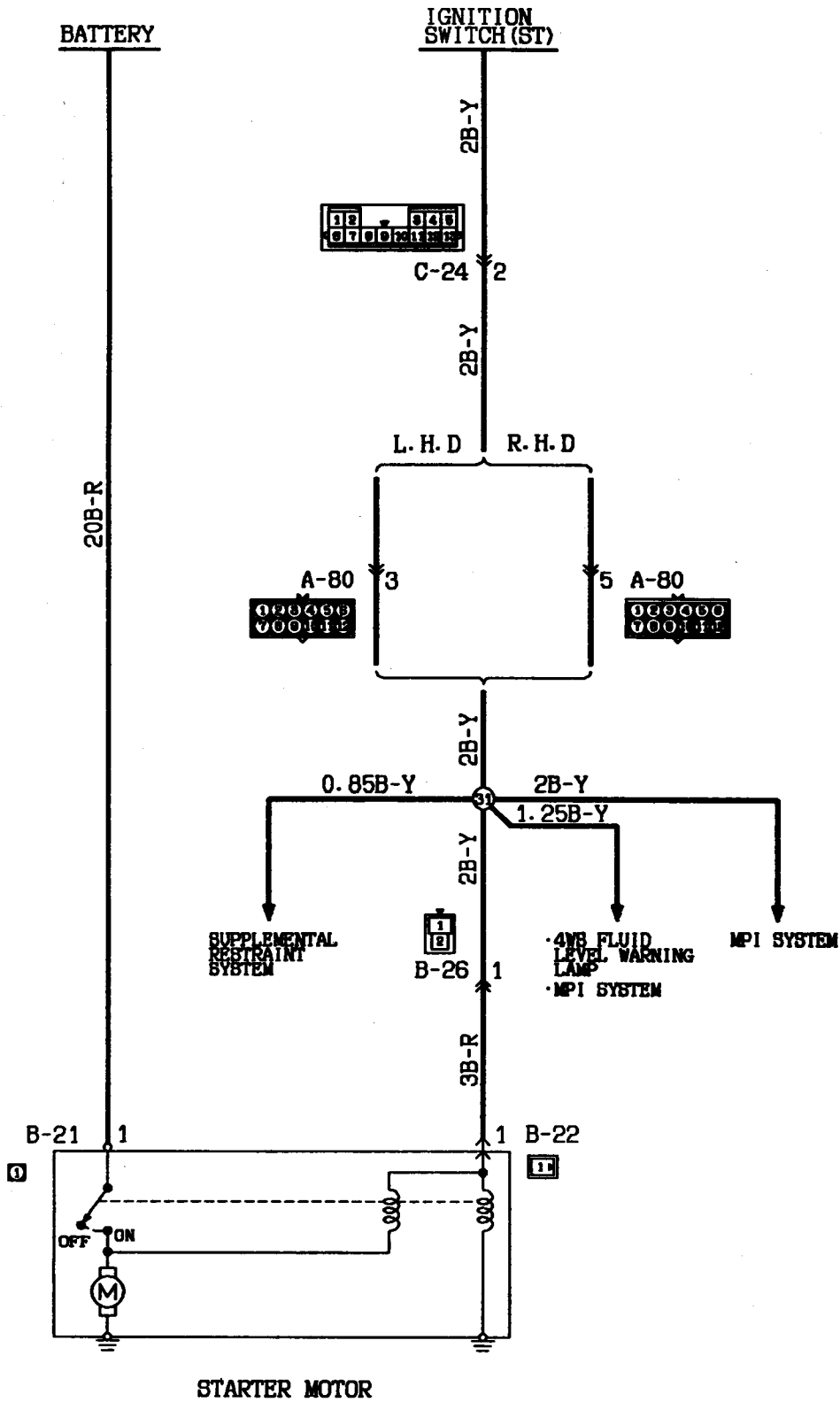
Remark
 The above circuit diagram shows the current flow at the ignition key position "ACC", "ON" and "ST" combined. Be sure trace the appropriate circuit depending on the ignition key position.





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

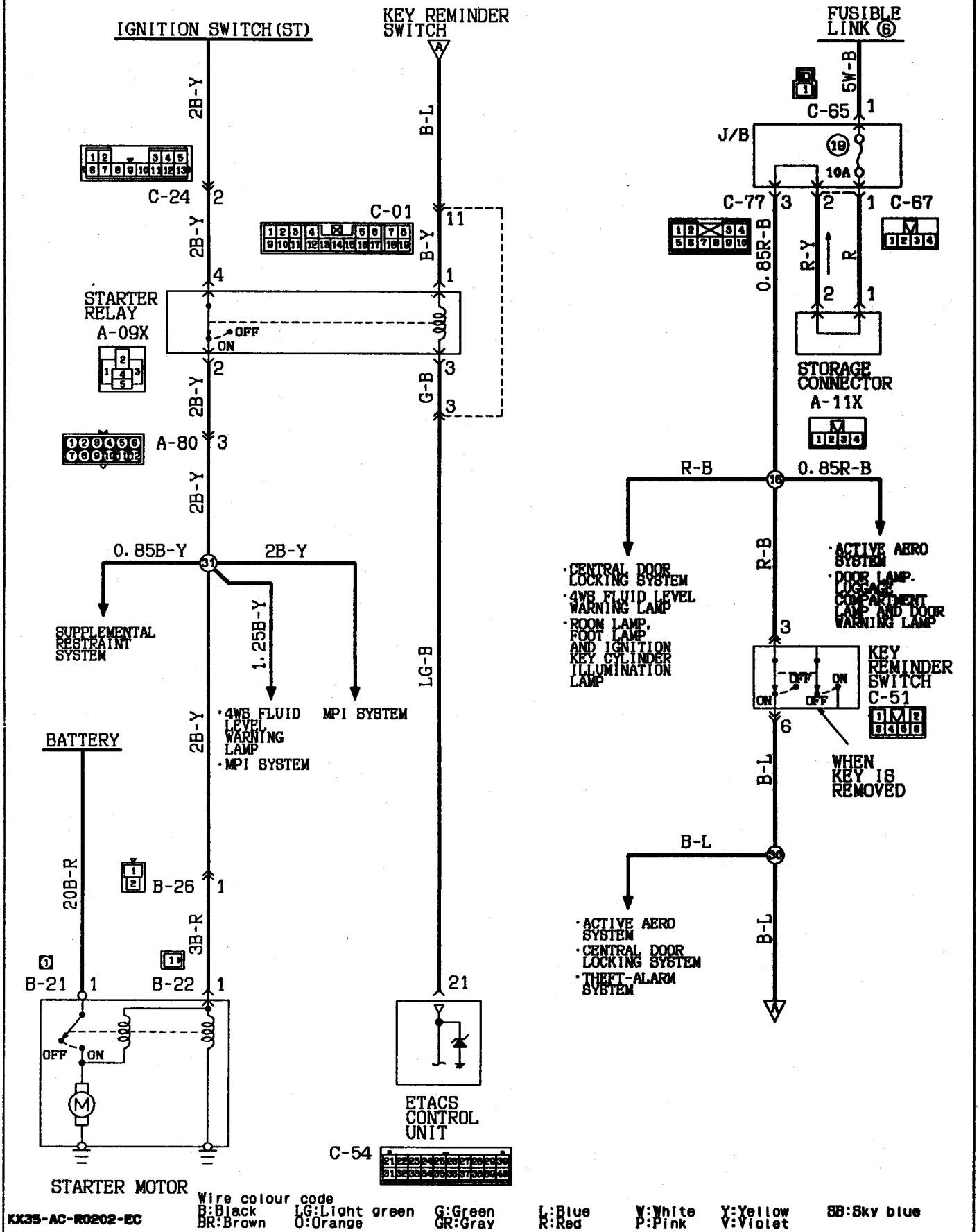
STARTING SYSTEM
(Vehicles without theft-alarm system)



Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

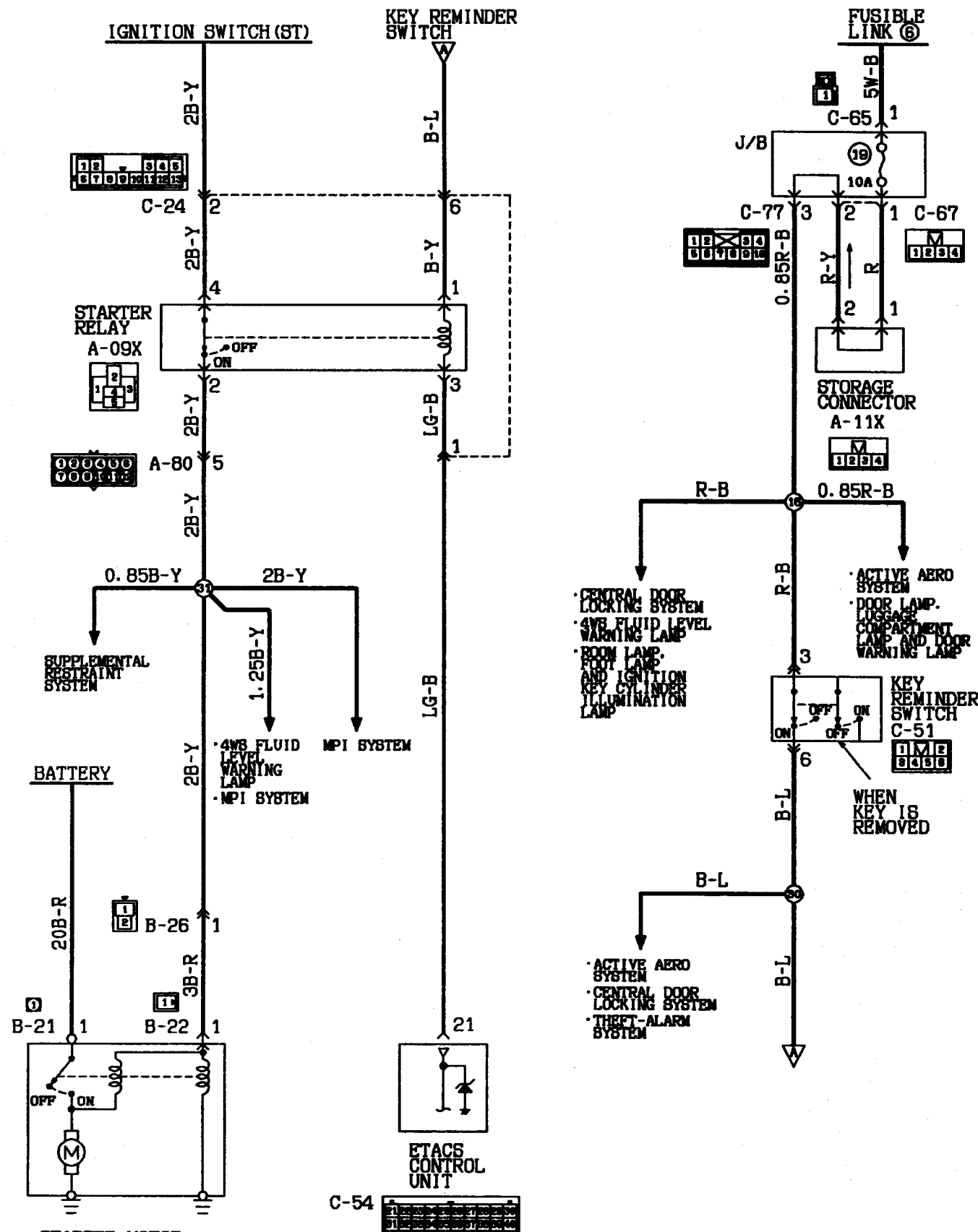
STARTING SYSTEM

(L.H. drive vehicles with theft-alarm system)



STARTING SYSTEM

(R.H. drive vehicles with theft-alarm system)



Wire colour code
 B:Black LG:Light green G:Green L:Blue V:White Y:Yellow BB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

STARTING SYSTEM (See P. 4-23, 24.)**OPERATION**

- When the ignition switch is switched to the "ST" position, the contact (magnetic switch) of the starter is switched ON and the starter motor is activated.

IGNITION SYSTEM (See P. 4-26.)**OPERATION**

- Turn ignition switch to "ON" position, and battery voltage will be applied to primary winding of ignition coil.
- When crank angle sensor signal is input to engine control unit, engine control unit makes ON-OFF control of power transistors one by one.
- When power transistor A is turned from ON to OFF, the spark plugs of No.1 and No.4 cylinders spark. Turning of power transistor B from ON to OFF will produce sparking in spark plugs of No.2 and No.5 cylinders. Furthermore, when power transistor C is turned from ON to OFF, sparking is produced in spark plugs of No.5 and No.6 cylinders.

TROUBLESHOOTING HINTS

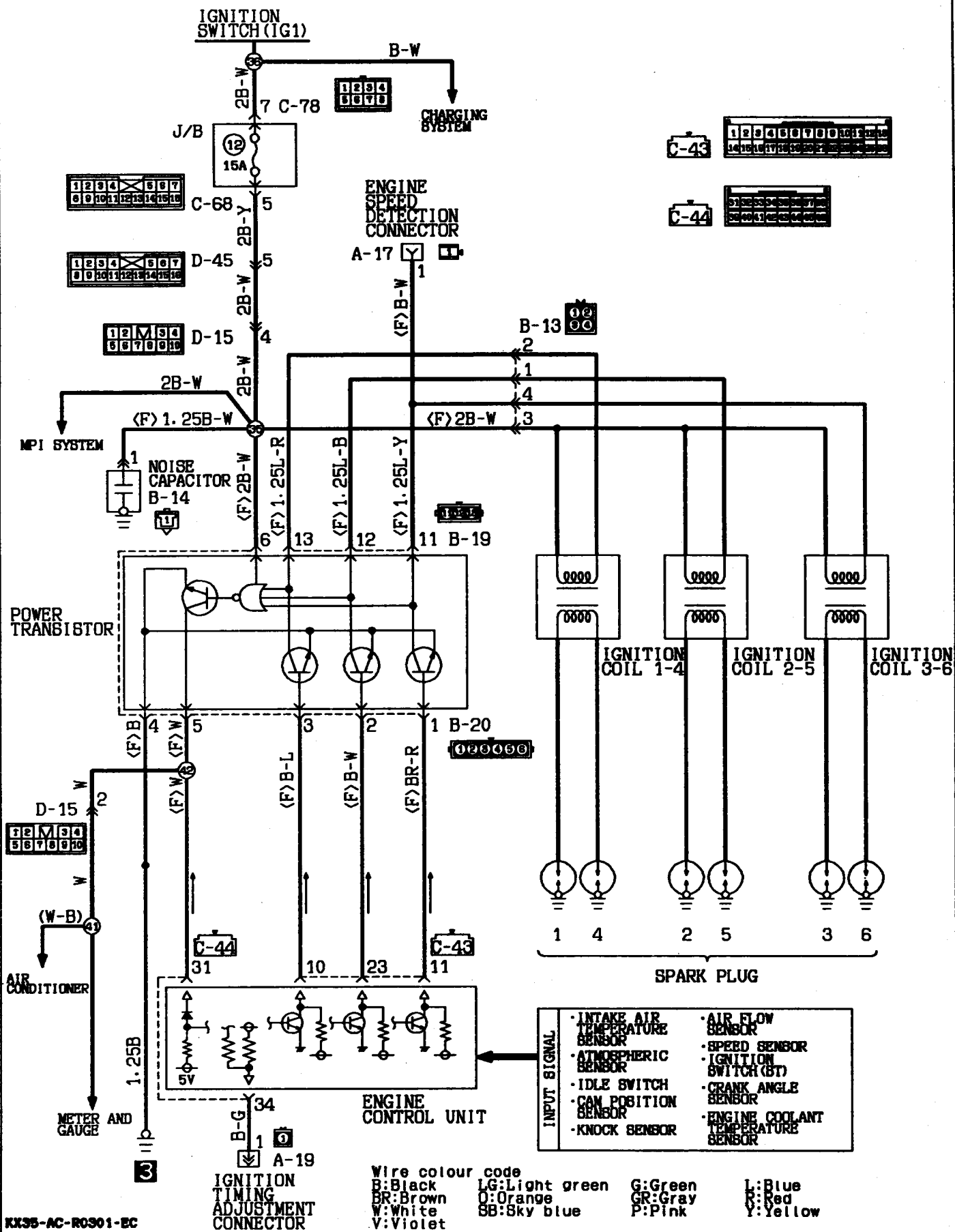
The starter motor does not operate at all.

- Check the starter (coil).
- Check for poor contact at the battery terminals and starter.
- Check starter relay.
- Check key reminder switch.

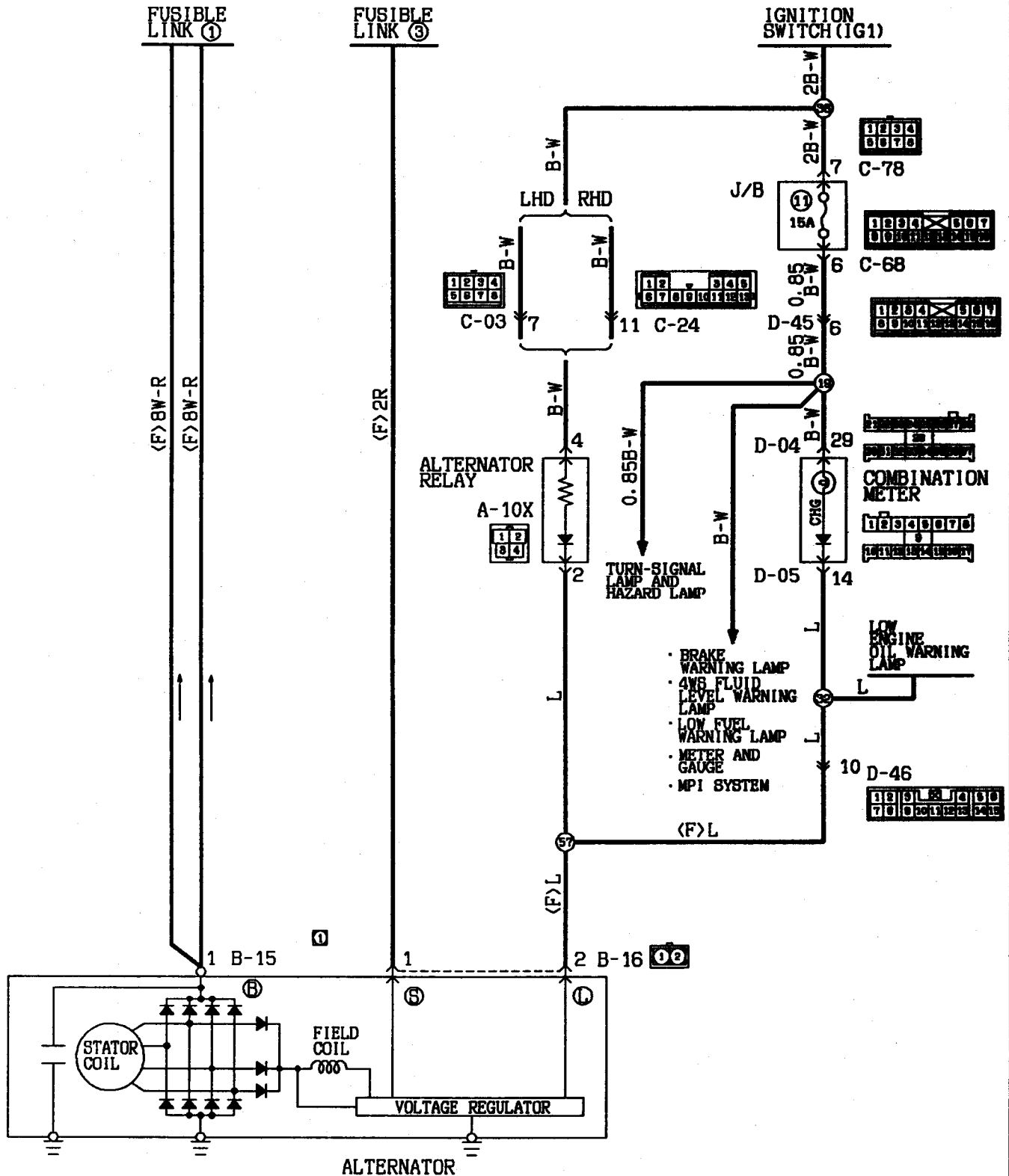
TROUBLESHOOTING HINTS

1. Engine cranks, but does not start.
 - (1) Spark is insufficient or does not occur at all (on spark plug).
 - Check ignition coil.
 - Check crank angle sensor.
 - Check power transistor.
 - Check spark plugs.
 - Check spark plug cable.
 - (2) Spark is good.
 - Check ignition timing.
2. Engine idles roughly or stalls.
 - Check spark plugs.
 - Check ignition timing.
 - Check ignition coil.
 - Check spark plug cable.
3. Poor acceleration
 - Check ignition timing.
 - Check spark plug cable.
 - Check ignition coil.

IGNITION SYSTEM



CHARGING SYSTEM



Wire colour code

B:Black LG:Light green

BR:Brown O:Orange

G:Green GR:Gray

L:Blue R:Red

W:White P:Pink

Y:Yellow V:Violet

SB:Sky blue

CHARGING SYSTEM (See P. 4-27.)**OPERATION****When engine is stopped**

When the ignition switch is switched to the "ON" position, electricity flows from the "L" terminal of the alternator to the field coil, and at the same time the charging warning lamp illuminates.

When engine is being started/has started

When the engine is started, charging voltage is applied to the "L" terminal of the alternator, with the result that the charging warning lamp is extinguished. In addition, because battery voltage is applied to the "S" terminal of the alternator, this battery voltage is monitored at the IC voltage regulator, thus switching ON and OFF the current to the field coil and thereby controlling the output voltage of the alternator. Power is supplied to each load from the "B" terminal of the alternator.

NOTE

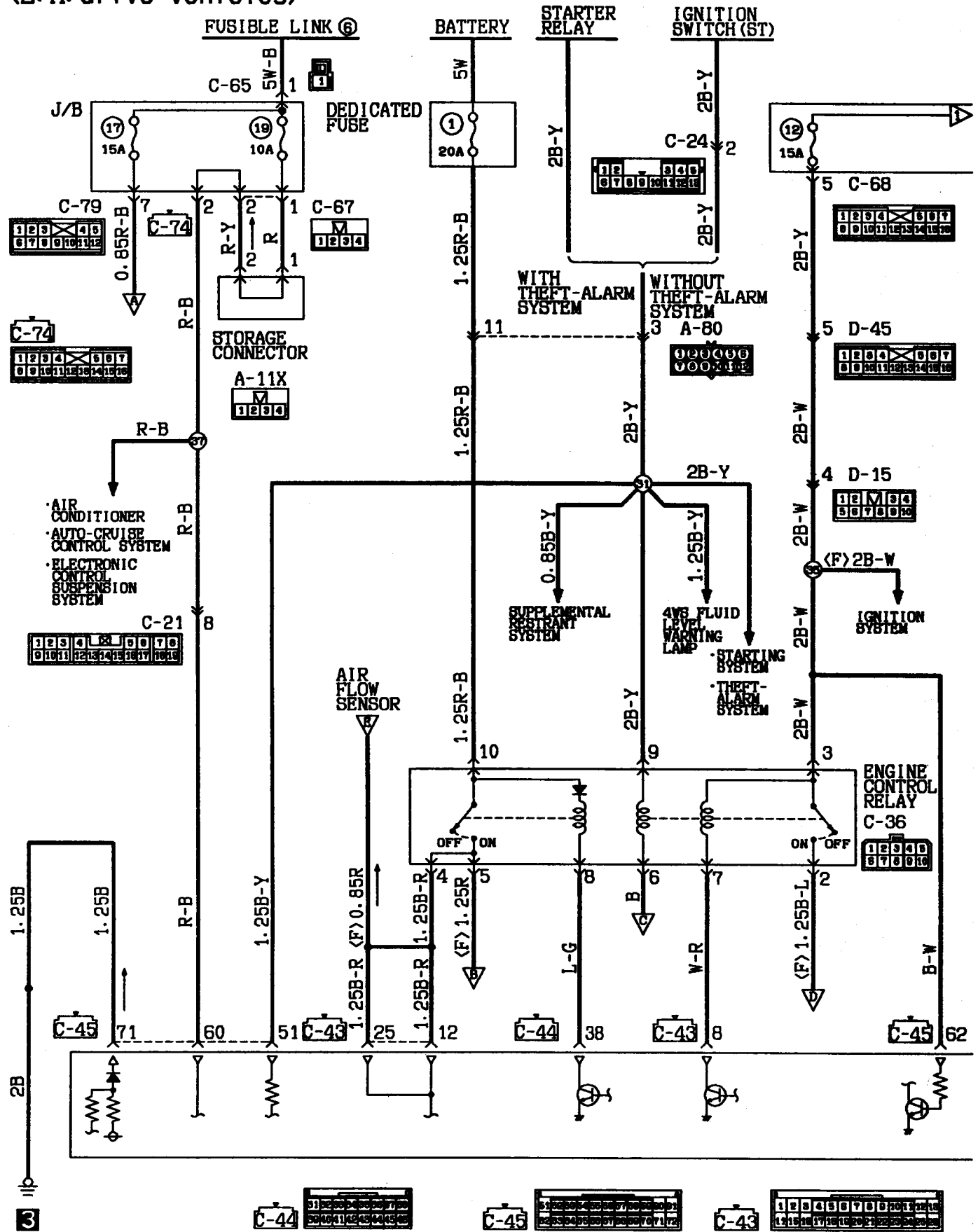
The alternator relay functions as a back-up for the flow of electricity to the field coil if there is a disconnection or damaged wiring of the charging warning lamp.

TROUBLESHOOTING HINTS

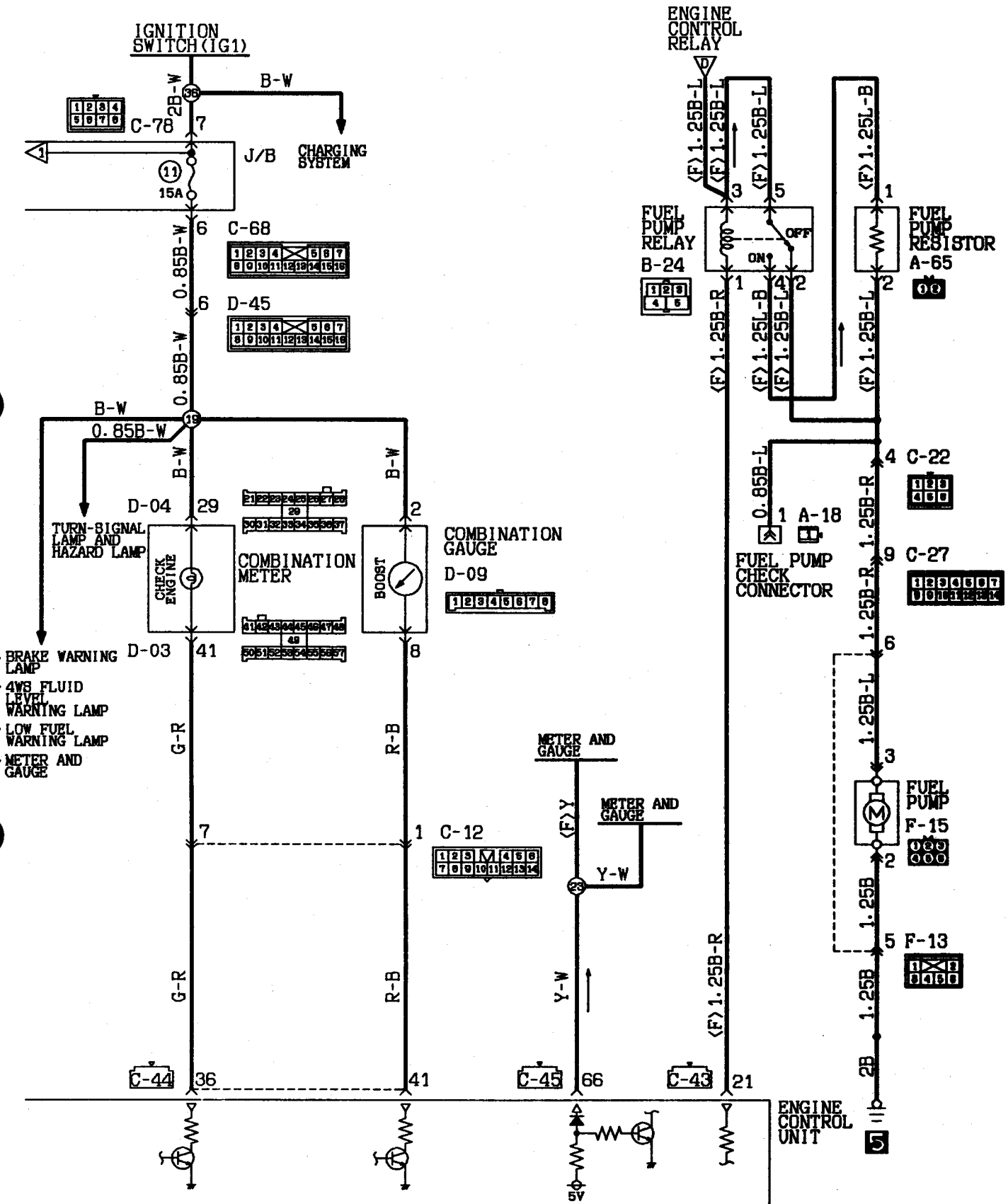
1. Charging warning lamp does not go on when the ignition switch is turned to "ON", before the engine starts.
 - Check the bulb.
2. Charging warning lamp fails to go off once the engine starts.
 - Check the IC voltage regulator (located within the alternator.)
3. Discharged or overcharged battery.
 - Check the IC voltage regulator (located within the alternator).
4. The charging warning lamp illuminates dimly.
 - Check the diode (within the combination meter) for a short-circuit.

NOTES

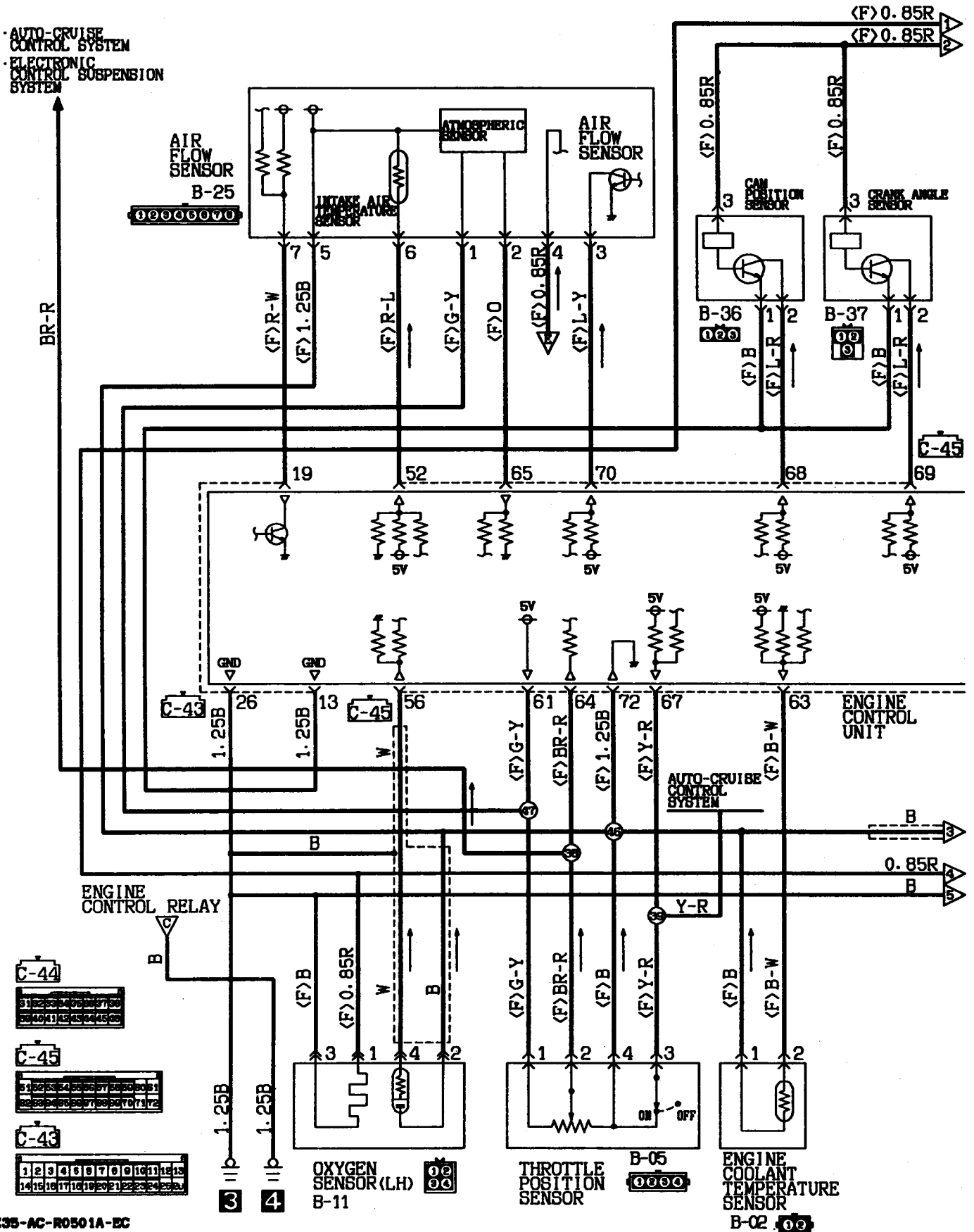
MPI SYSTEM (L.H. drive vehicles)



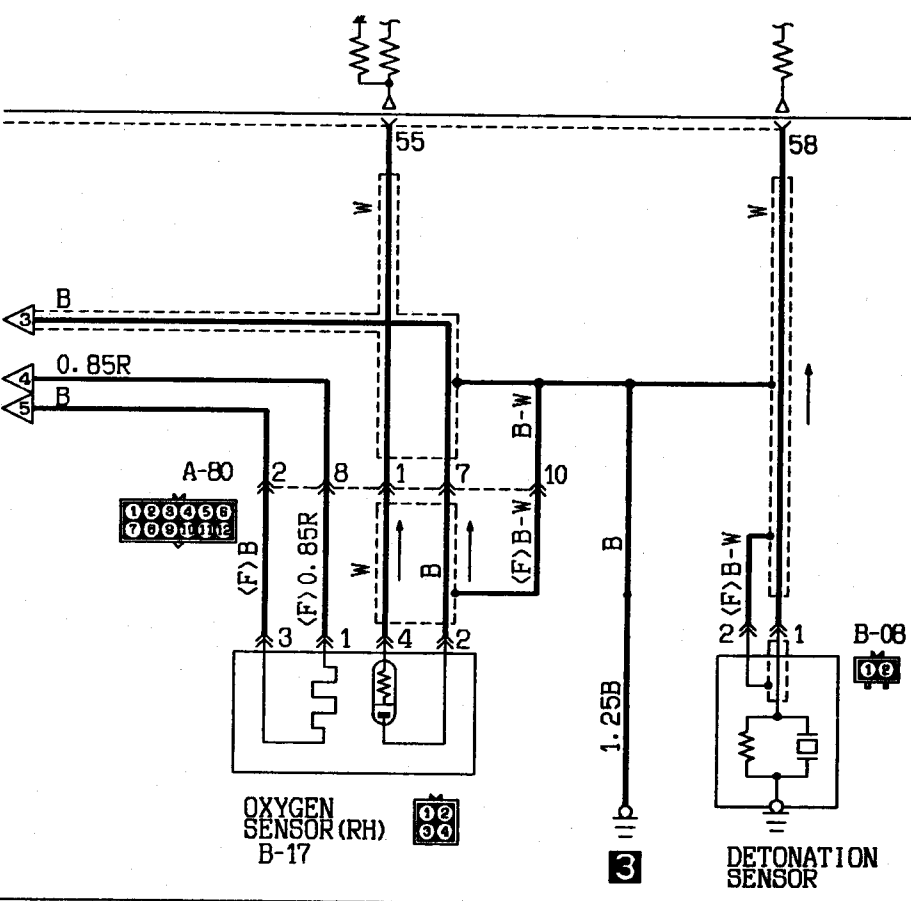
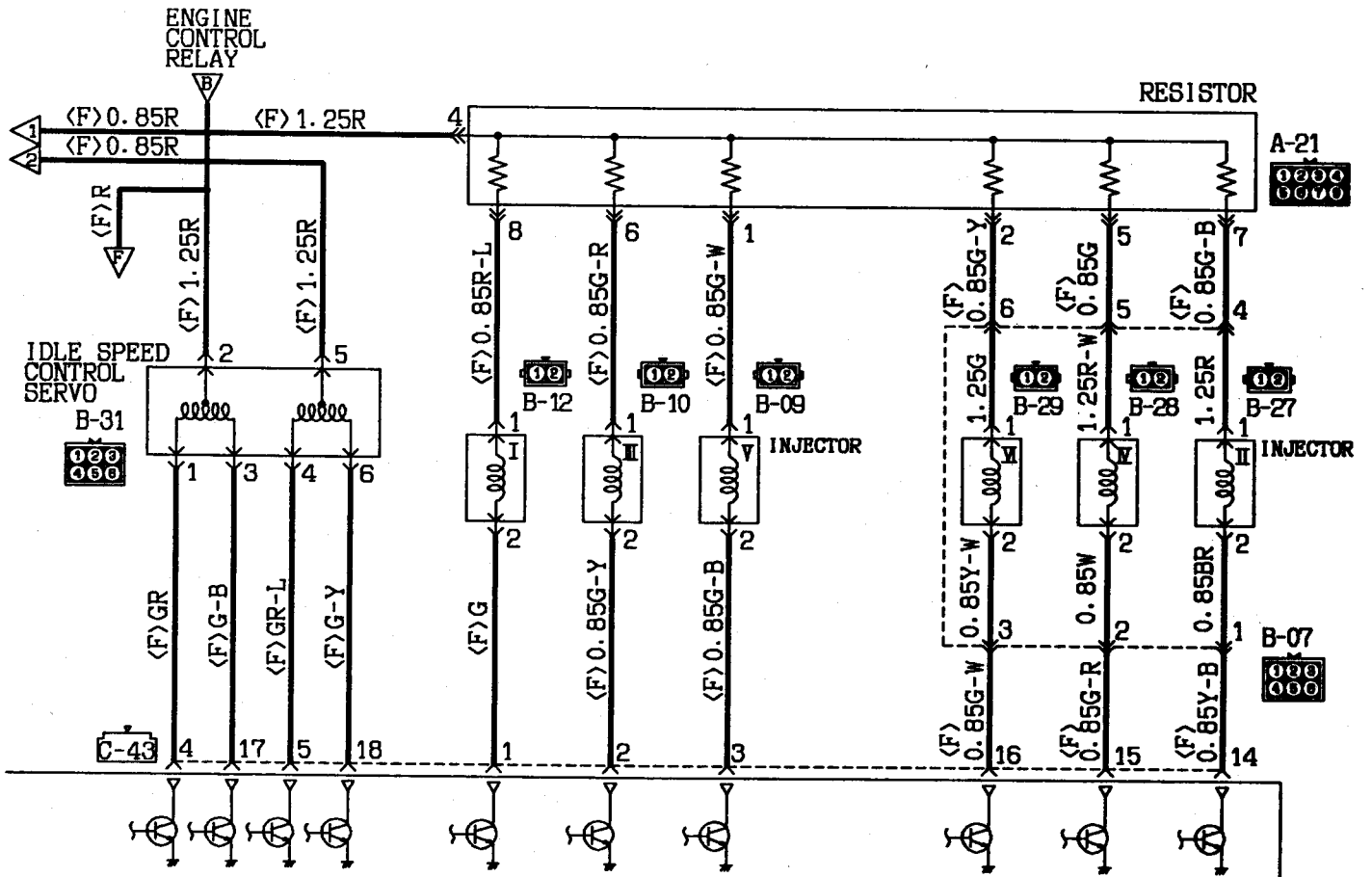
KX35-AC-R0501-EC



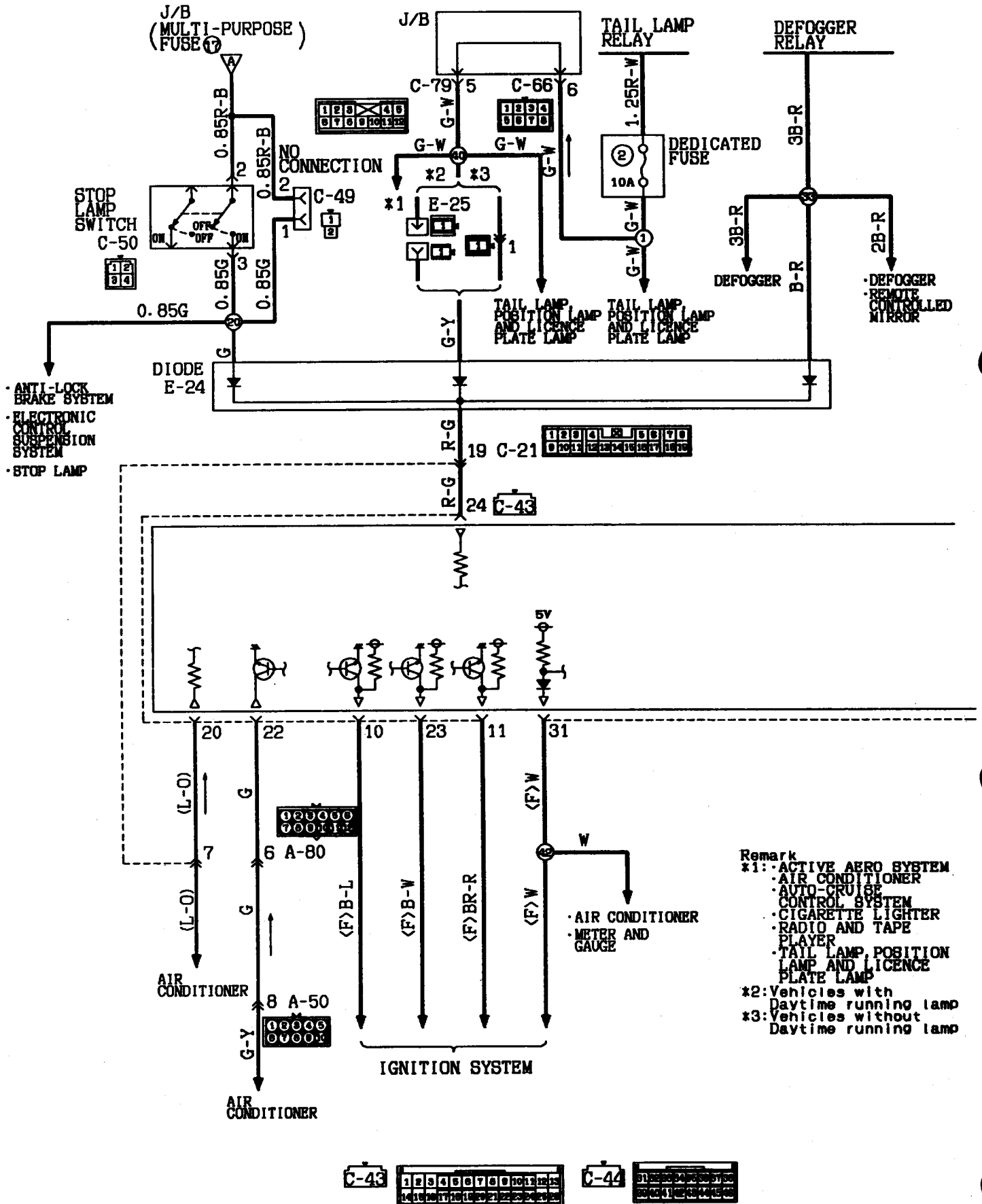
Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

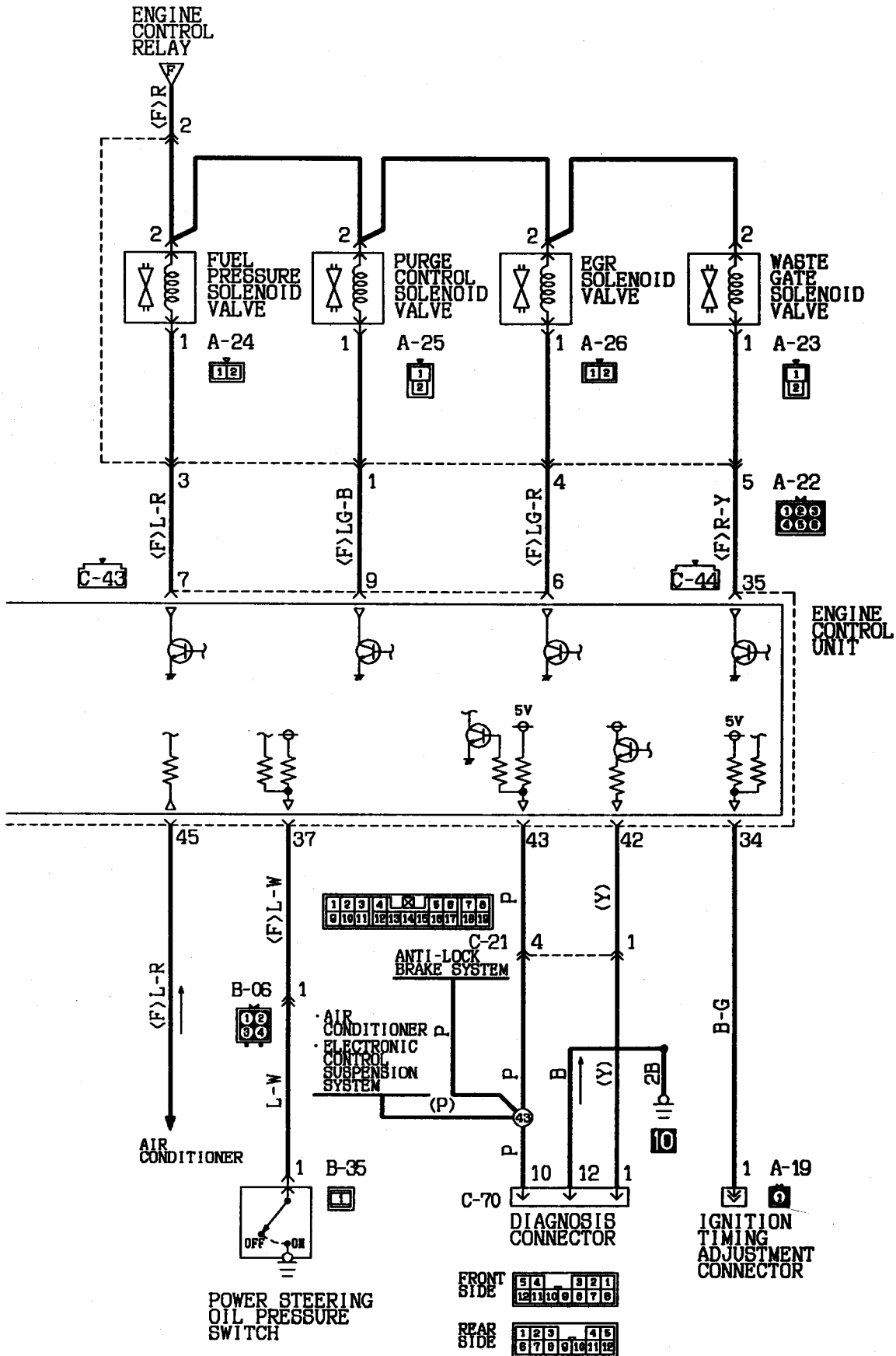


XX35-AC-R0501A-EC



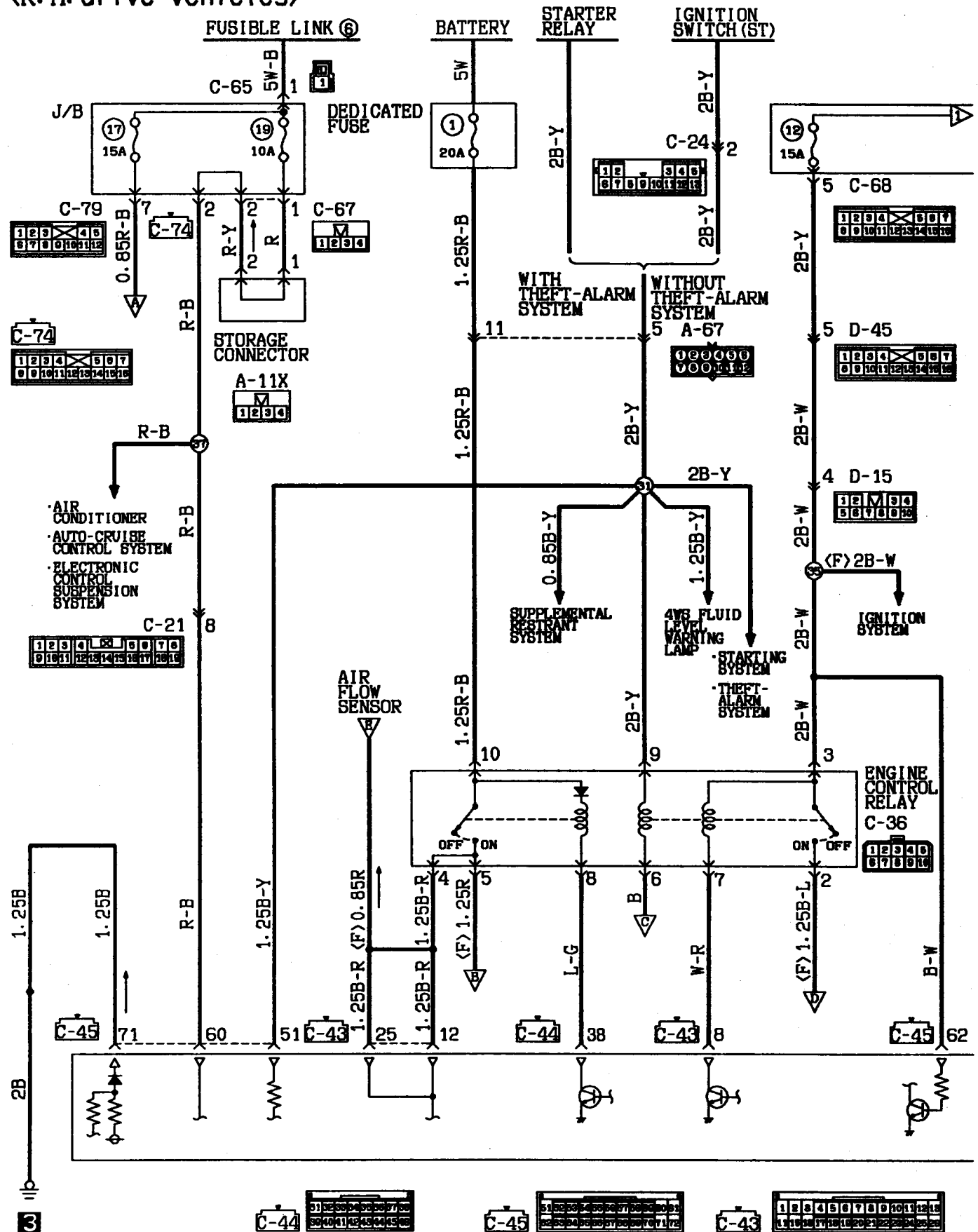
- Wire colour code
- B: Black
 - BR: Brown
 - G: Green
 - GR: Gray
 - L: Blue
 - V: Violet
 - SB: Sky blue
 - LG: Light green
 - O: Orange
 - P: Pink
 - R: Red
 - Y: Yellow
 - W: White

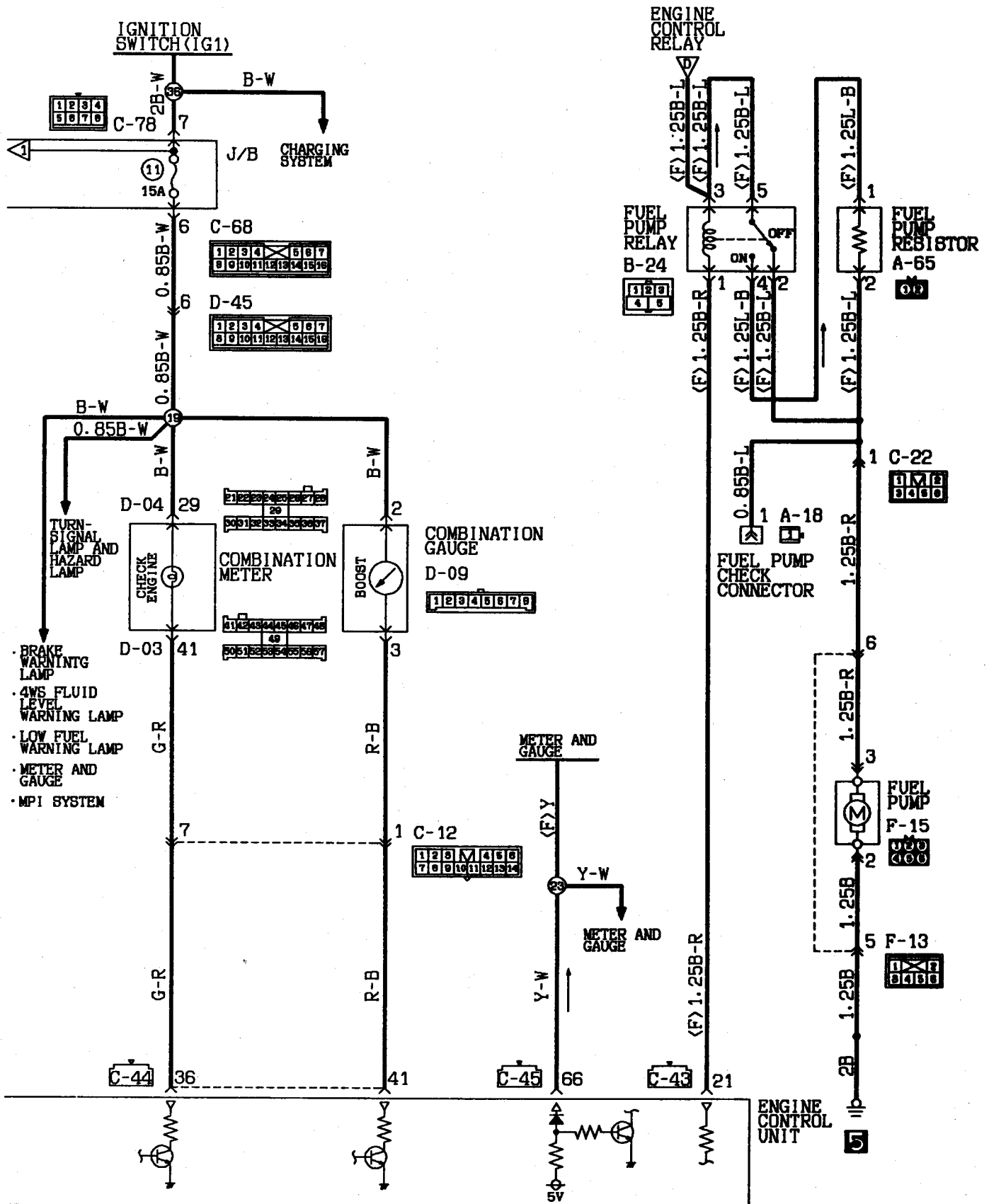




Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

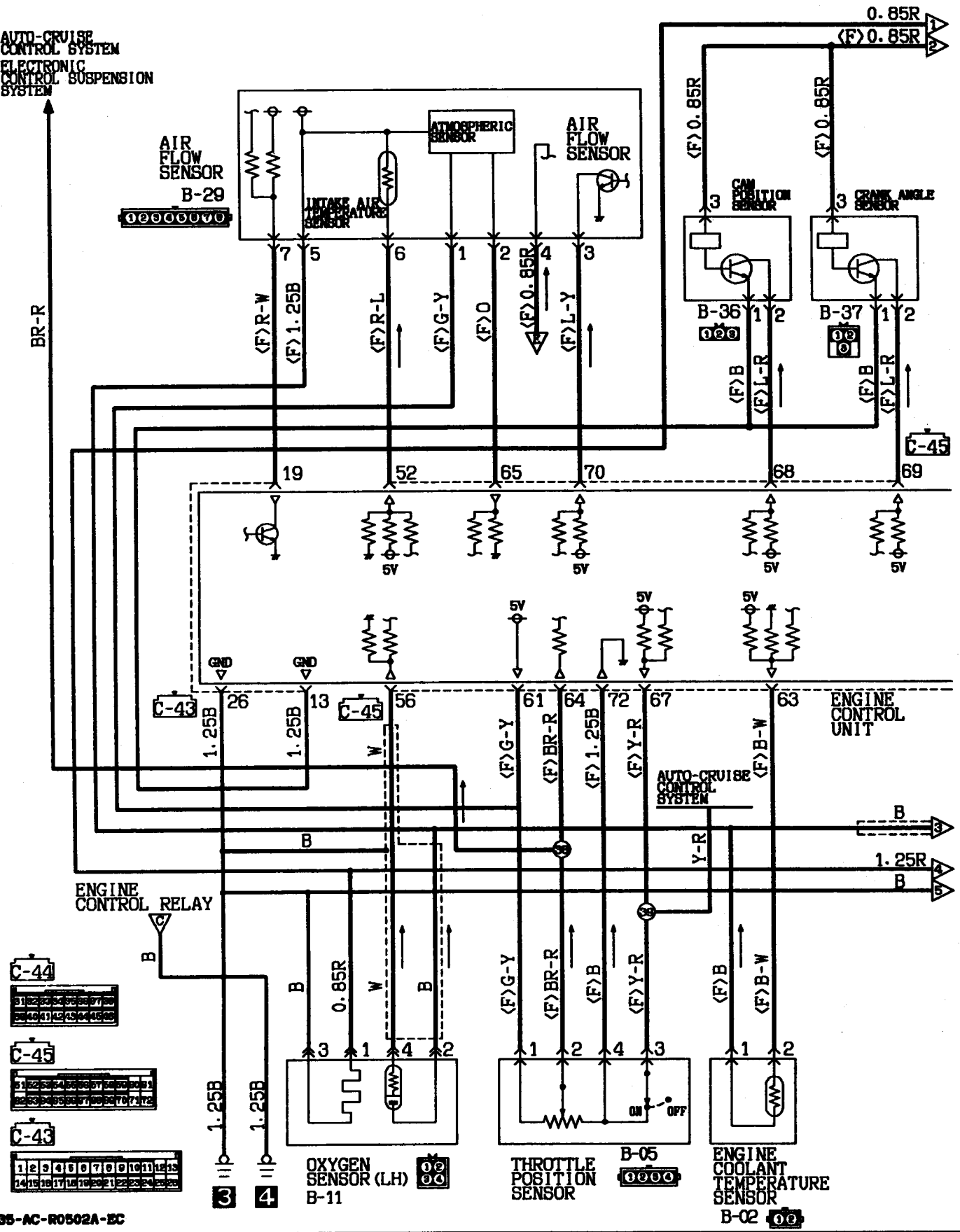
MPI SYSTEM (R. H. drive vehicles)

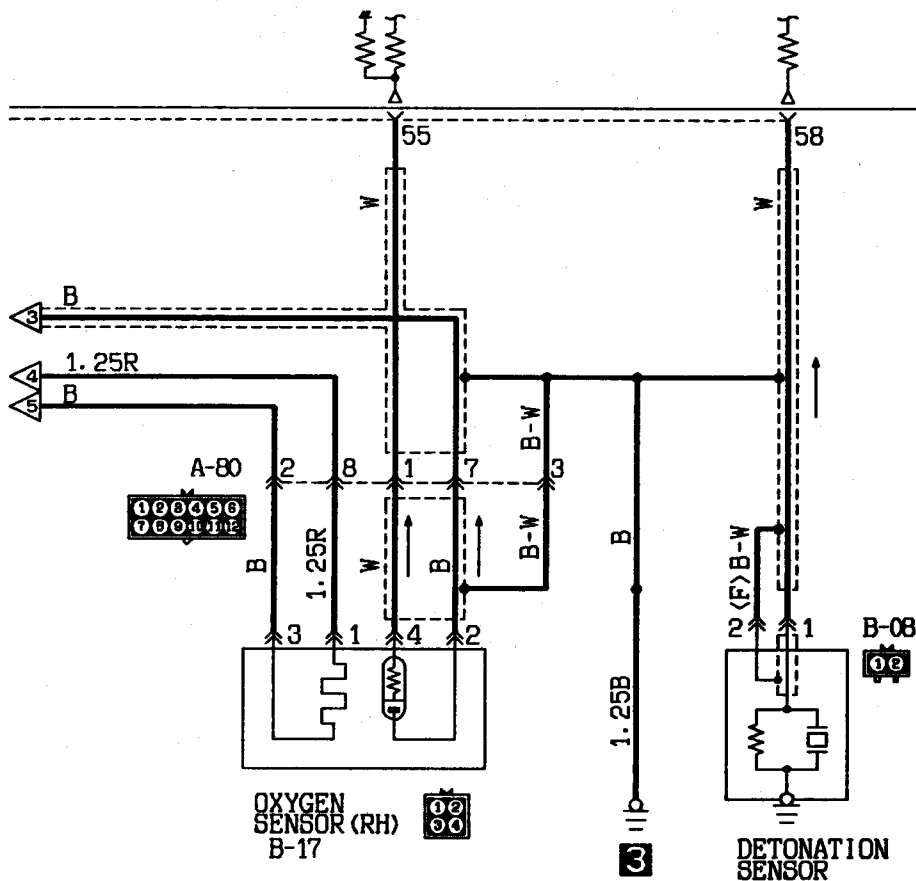
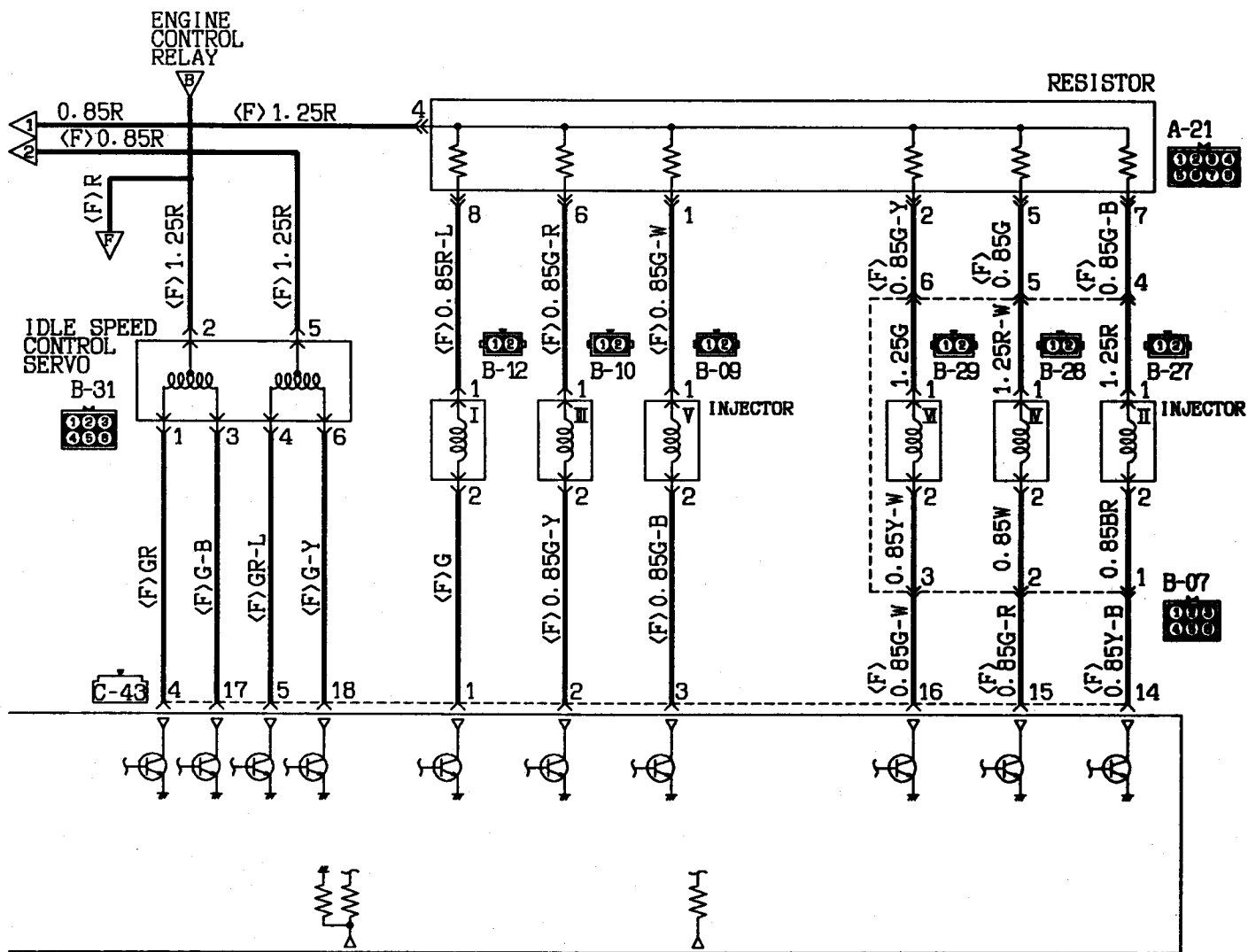




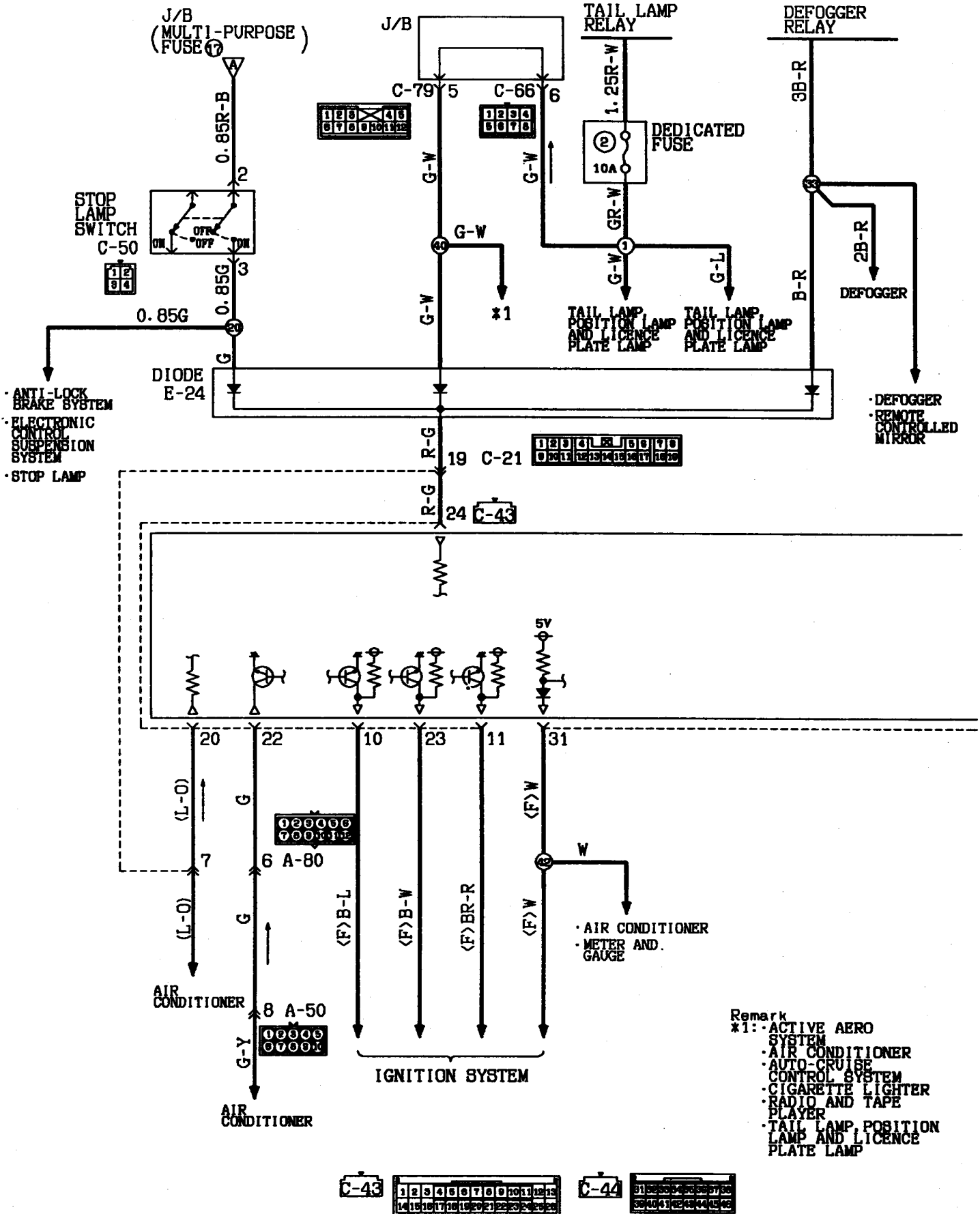
Wire colour code
 B:Black LG:Light green G:Green L:Blue W:White Y:Yellow SB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

AUTO-CRUISE CONTROL SYSTEM
ELECTRONIC CONTROL SUSPENSION SYSTEM



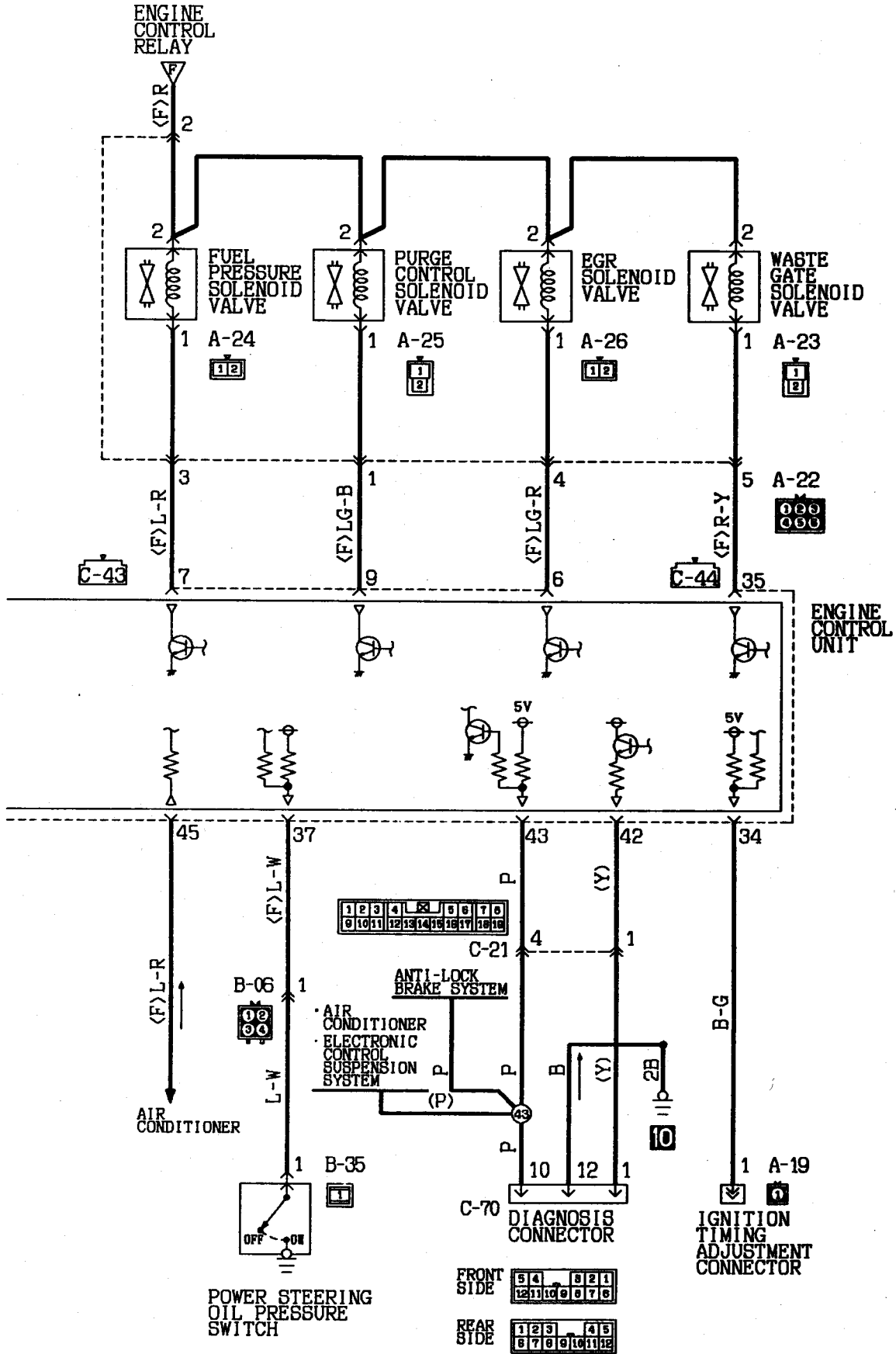


- Wire colour code
- B: Black
 - BR: Brown
 - G: Green
 - GR: Gray
 - L: Blue
 - V: Violet
 - SB: Sky blue
 - LG: Light green
 - O: Orange
 - P: Pink
 - R: Red
 - Y: Yellow
 - W: White

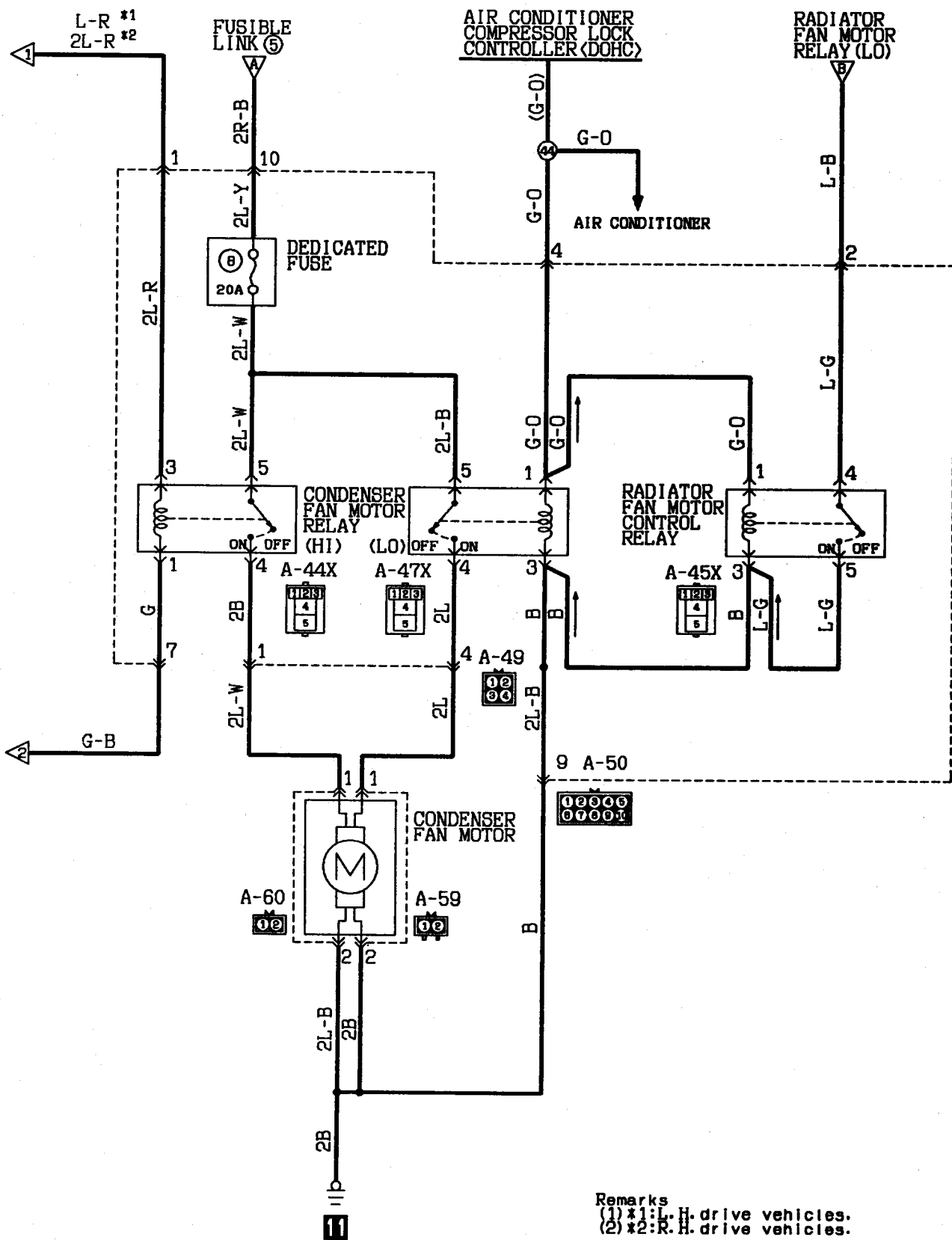


Remark
 *1: ACTIVE AERO SYSTEM
 · AIR CONDITIONER
 · AUTO-CRUISE CONTROL SYSTEM
 · CIGARETTE LIGHTER
 · RADIO AND TAPE PLAYER
 · TAIL LAMP, POSITION LAMP AND LICENCE PLATE LAMP





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



Remarks
 (1) *1: L.H. drive vehicles.
 (2) *2: R.H. drive vehicles.

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

COOLING SYSTEM (See P. 4-42.)**OPERATION****1. When air conditioner compressor lock controller outputs LO signal (0 V)**

- When the engine coolant temperature increases to 85°C (185°F), the engine coolant temperature sensor (for low speed) in the radiator turns "ON".
- This causes the radiator fan motor relay (LO) to turn "ON", to make the radiator fan operate at low speed.
- Also, when the engine coolant temperature increases to 95°C (203°F), the engine coolant temperature (for high speed) in the radiator turns "ON".
- Because of this, the radiator fan motor relay (HI) and the condenser fan motor relay (HI) turn "ON", and the radiator fan and condenser fan operate at high speed.

2. When air conditioner compressor lock controller outputs HI signal (approx. 12 V)

- The power from the air conditioner compressor lock controller turns the radiator fan motor relay and the condenser fan motor relay (LO) to "ON", and the radiator fan and condenser fan operate at low speed.
- When the engine coolant temperature reaches 95°C (203°F), the engine coolant temperature (for high speed) turns "ON" and the radiator fan motor and condenser fan operate at high speed, in the same way as in item 1.

Fan Operating Mode

Air conditioner compressor lock controller output	Switch conditions		Fan revolving operation condition	
	Thermo sensor		Radiator fan motor	Condenser fan motor Condenser fan motor operates in HIGH only when it receives input from condenser fan motor relay (HI) and (LO).
	For radiator fan ON at 85 ± 4°C (185 ± 7°F) or more OFF at 77°C (171°F) or less	For condenser fan ON at 95 ± 4°C (203 ± 7°F) or more OFF at 87°C (189°F) or less		
LO (0V)	OFF	OFF	OFF	OFF
LO (0V)	ON	OFF	LOW	OFF
LO (0V)	ON	ON	HIGH	HIGH
HI (12V)	OFF	OFF	LOW	LOW
HI (12V)	ON	OFF	LOW	LOW
HI (12V)	ON	ON	HIGH	HIGH

TROUBLESHOOTING HINTS

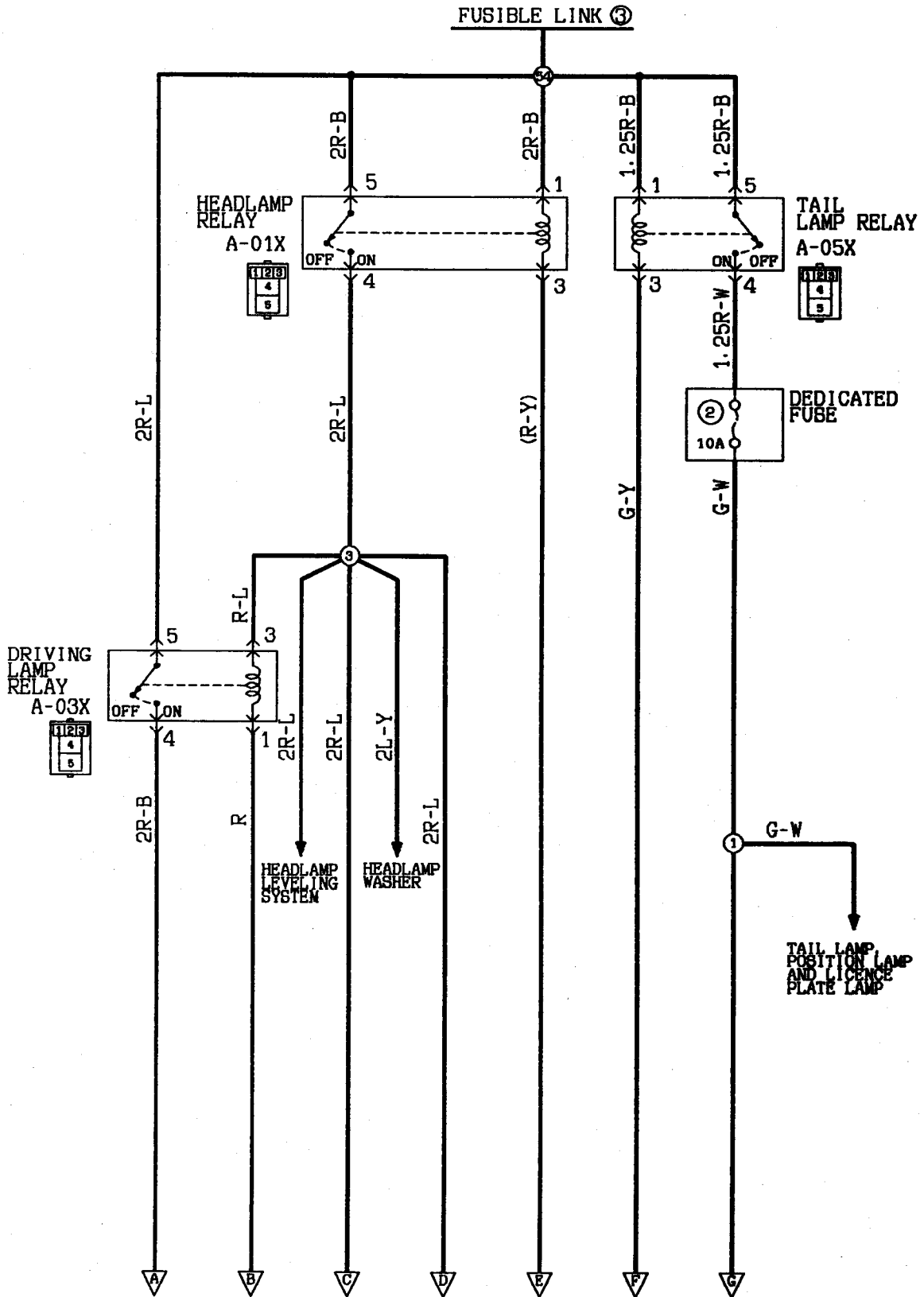
- Neither radiator fan nor condenser fan operates.
 - Check the fusible link No. ⑤.
- Condenser fan does not operate at all.
 - Check the dedicated fuse No. ⑧.
- Radiator fan and condenser fan do not operate at low speed only.
 - The air conditioner compressor magnetic clutch also does not turn "ON".
 - Check if there is output from the air conditioner compressor lock controller.
 - The air conditioner compressor magnetic clutch turns "ON".
 - Check each of the low speed relays and resistors.

Remark

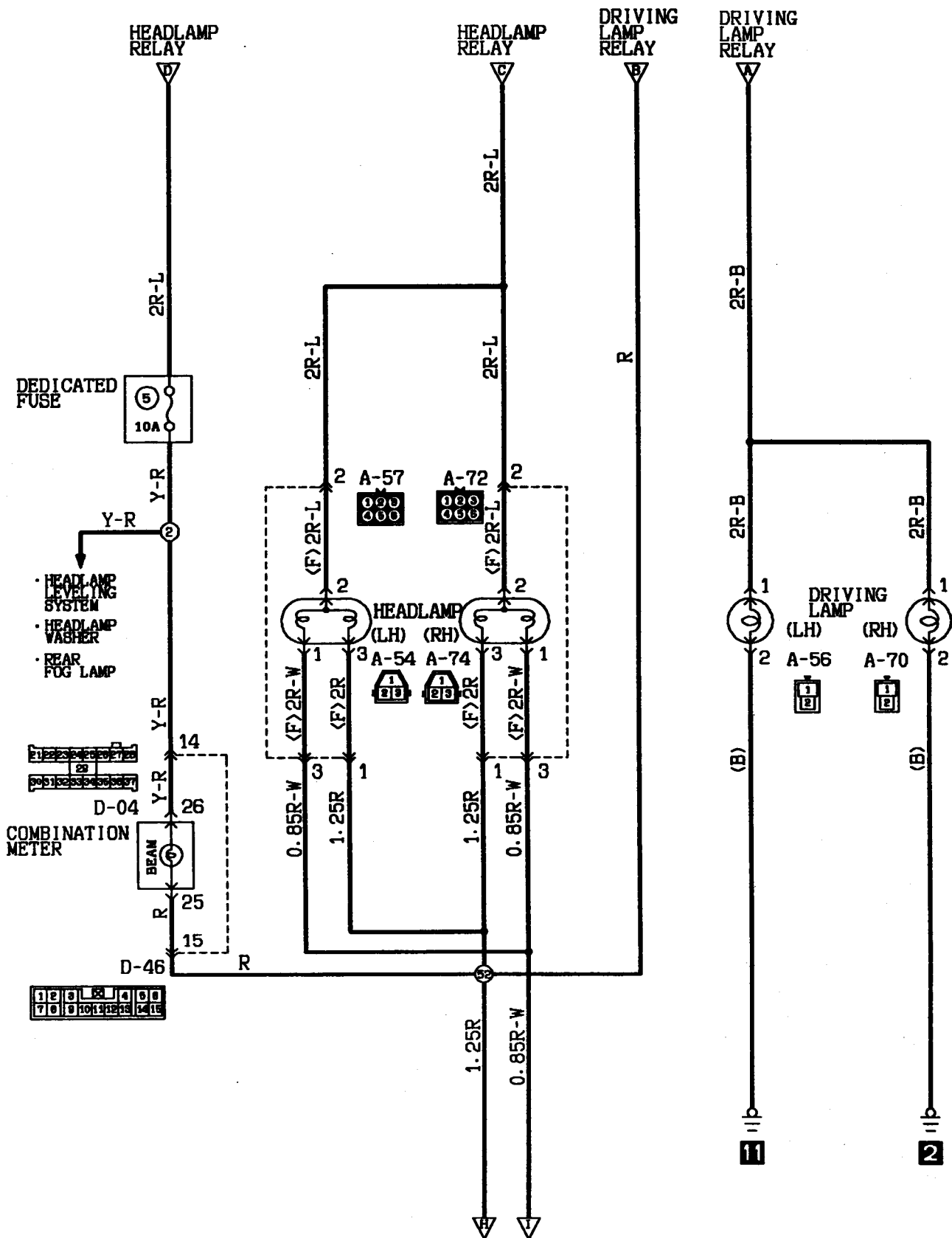
- For troubleshooting the air conditioner compressor lock controller, see the Troubleshooting in Group 55 Heater, Air conditioner and Ventilation of the separate WORKSHOP MANUAL (Pub. No. PWUE9119).

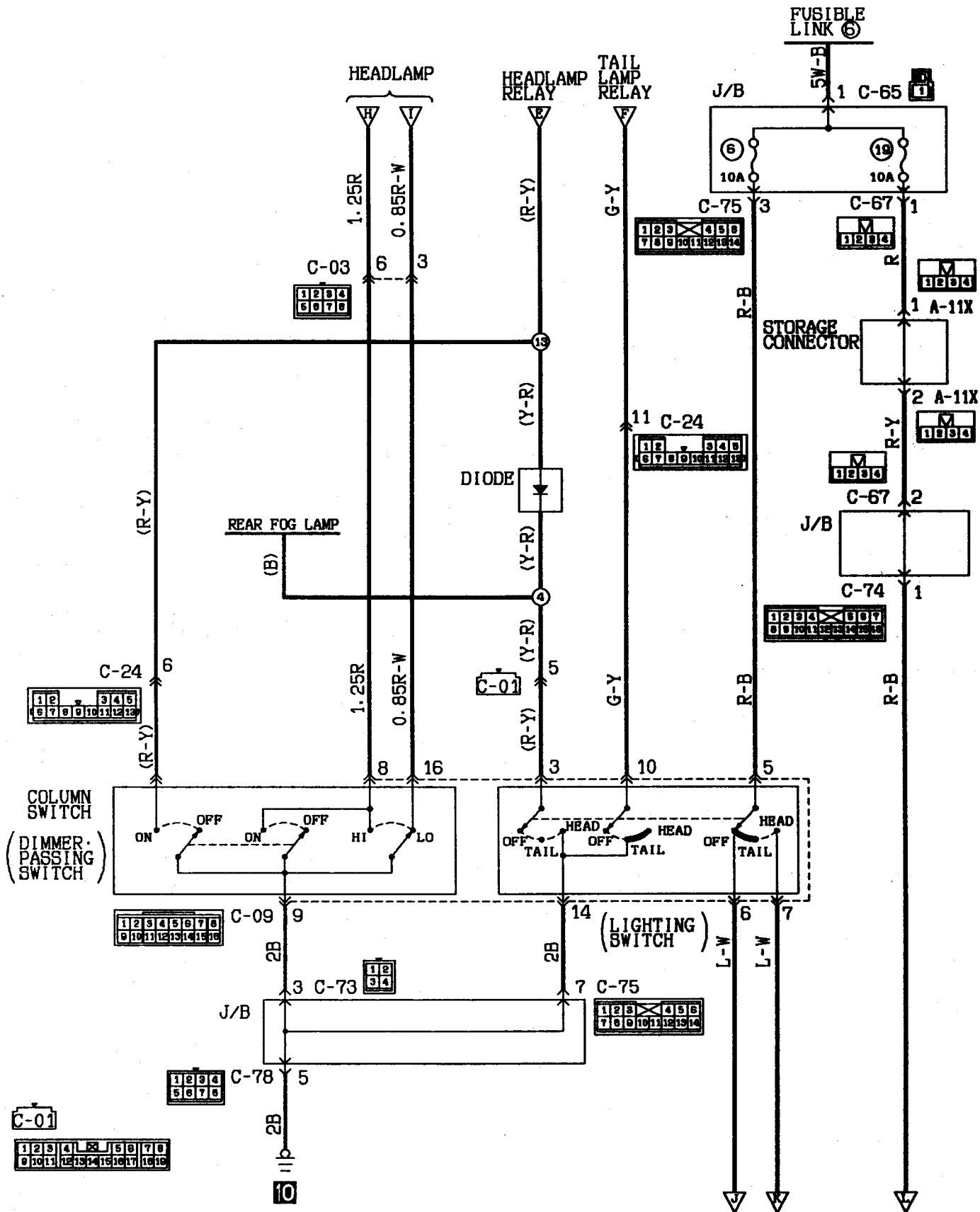
HEADLAMP

<L.H. drive vehicles without daytime running lamp>



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





Wire colour code

B:Black

LG:Light green

G:Green

L:Blue

W:White

Y:Yellow

SB:Sky blue

BR:Brown

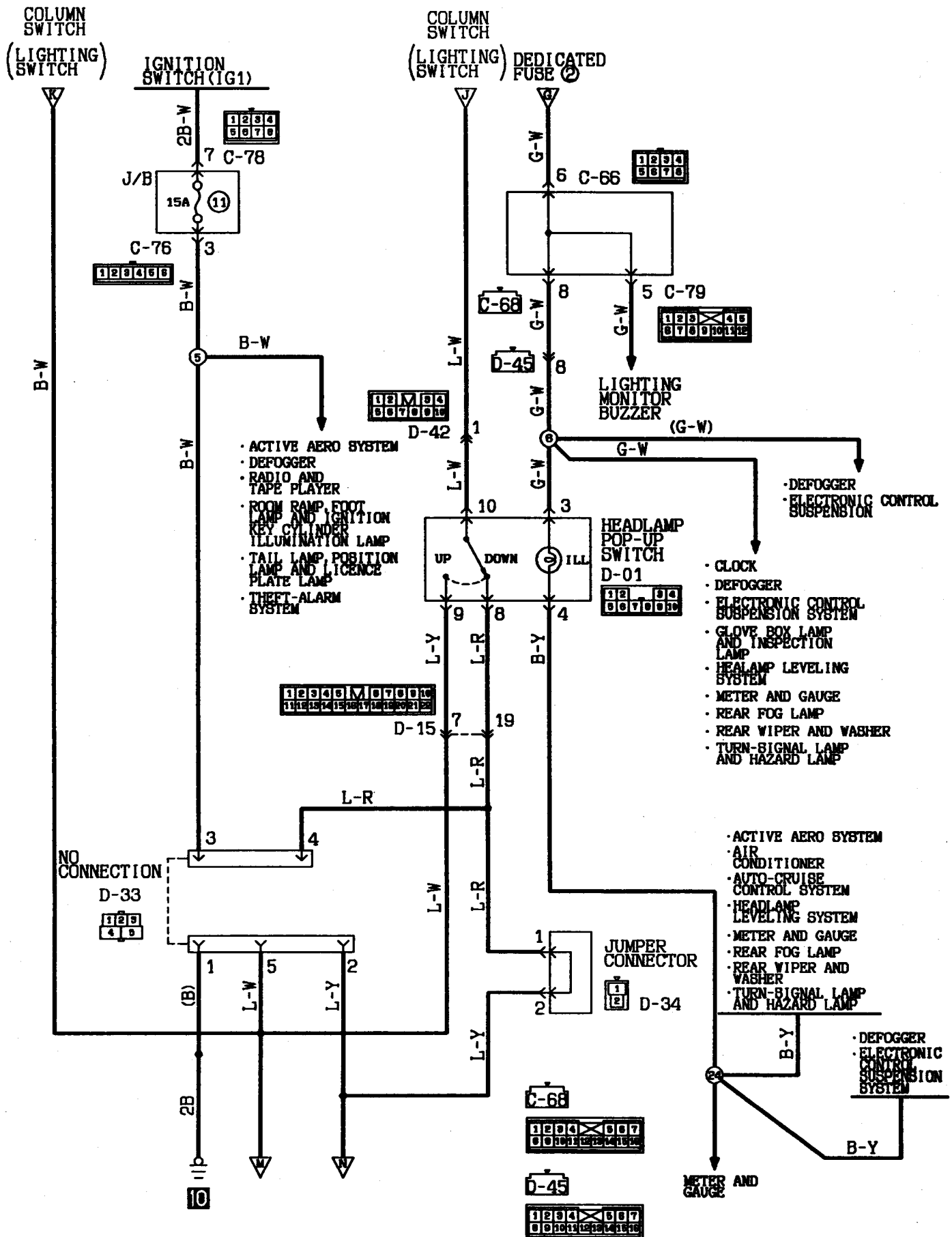
O:Orange

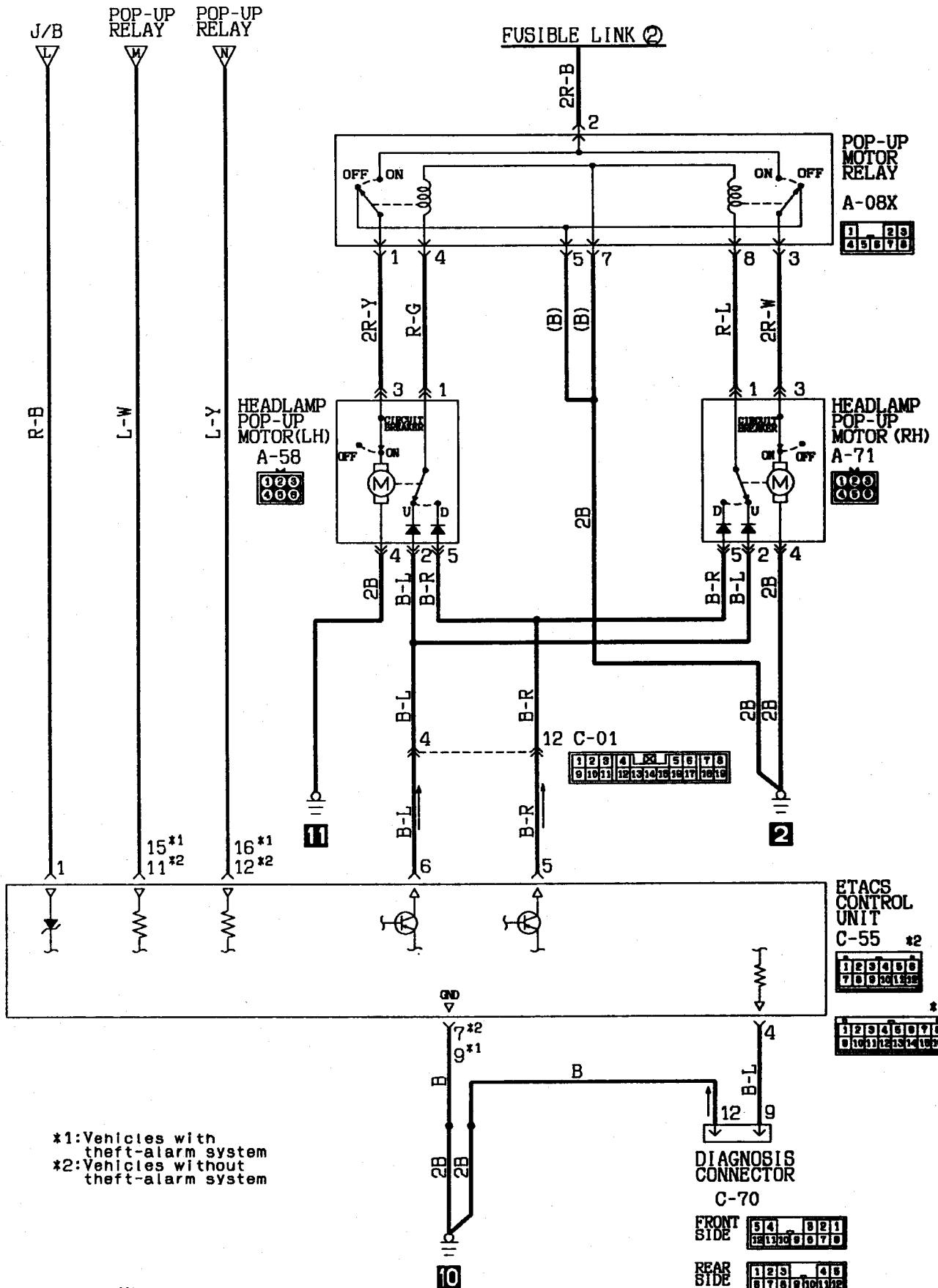
GR:Gray

R:Red

P:Pink

V:Violet



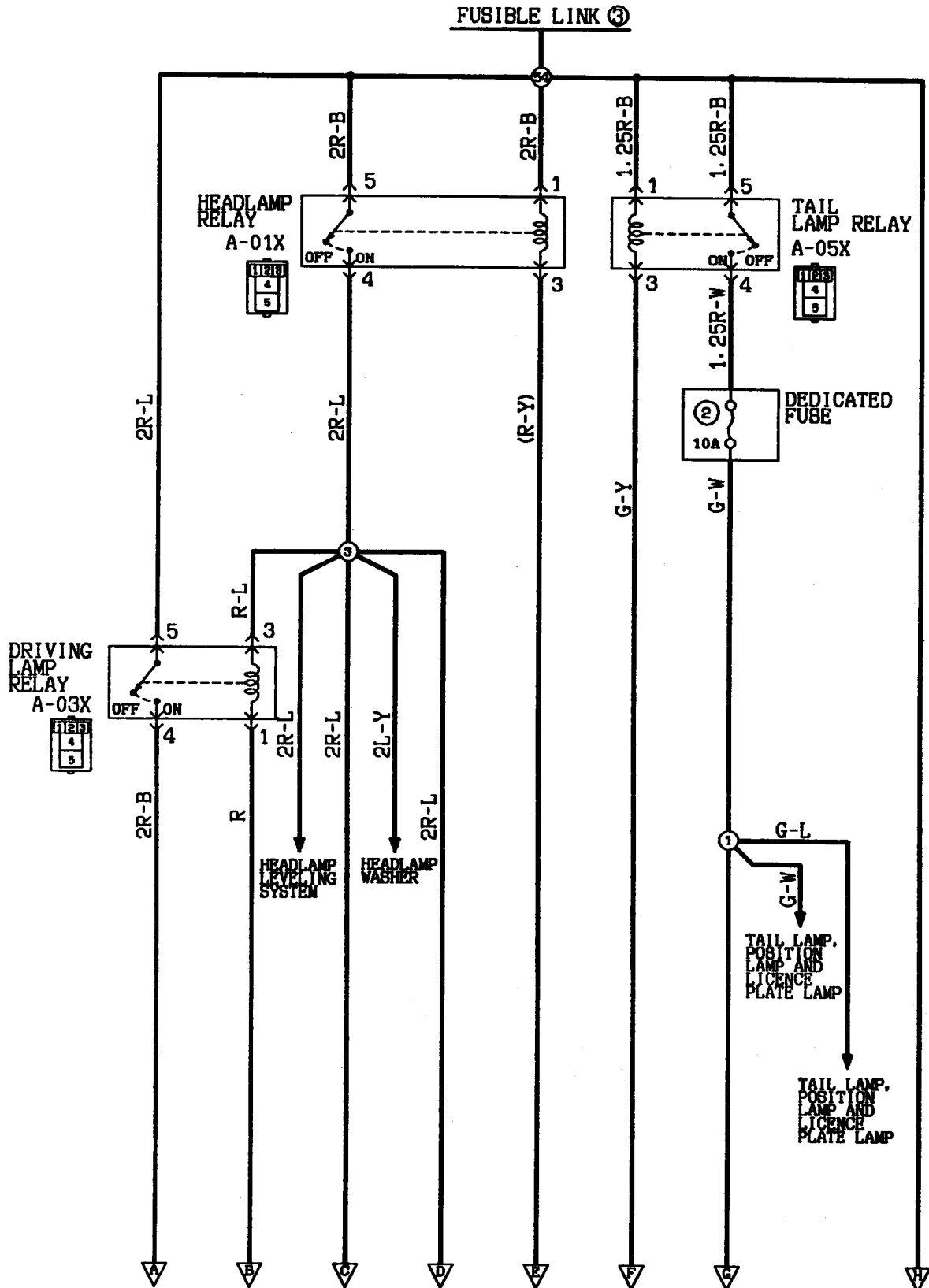


*1: Vehicles with theft-alarm system
 *2: Vehicles without theft-alarm system

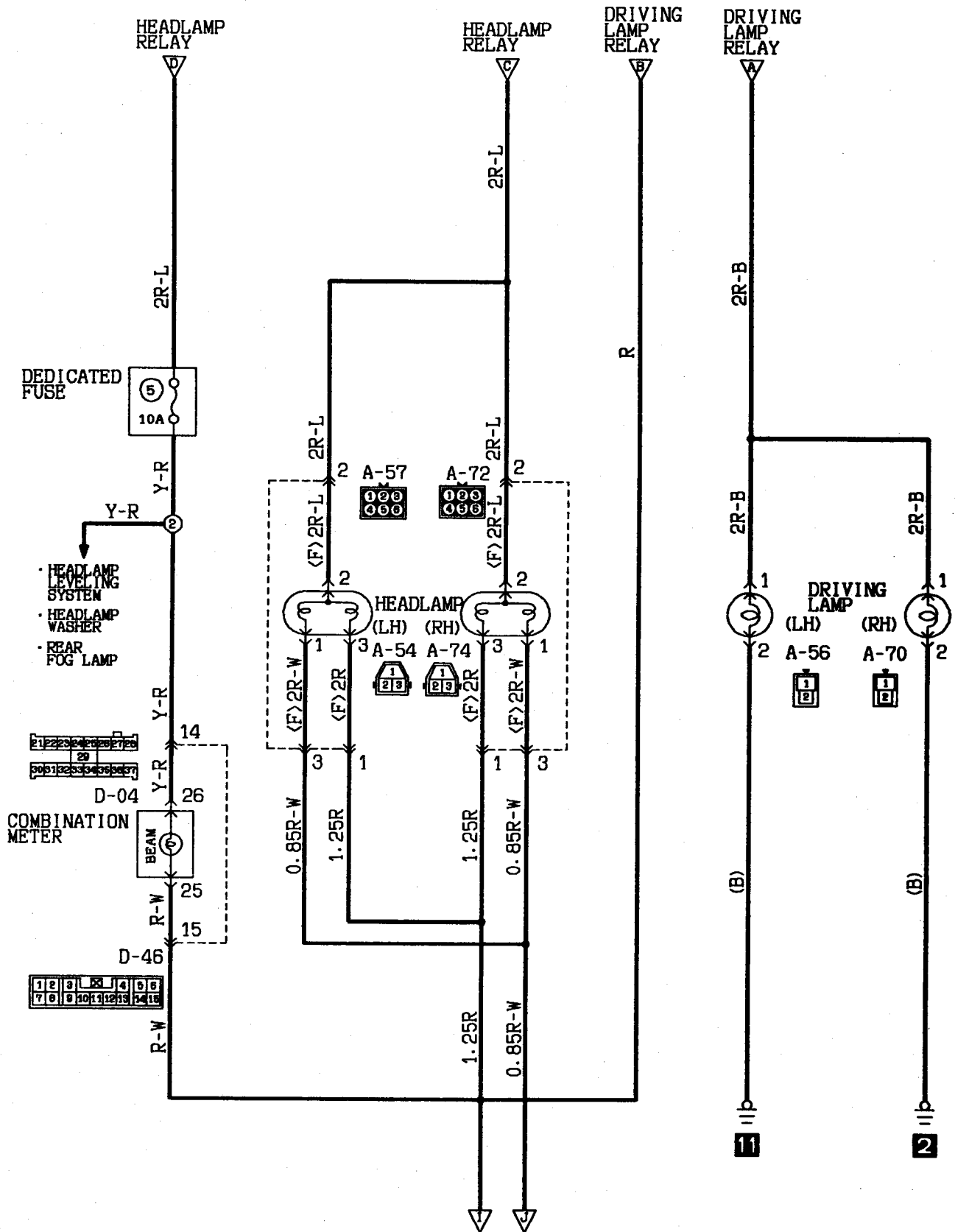
Wire colour code
 B: Black LG: Light green G: Green L: Blue W: White Y: Yellow SB: Sky blue
 BR: Brown O: Orange GR: Gray R: Red P: Pink V: Violet

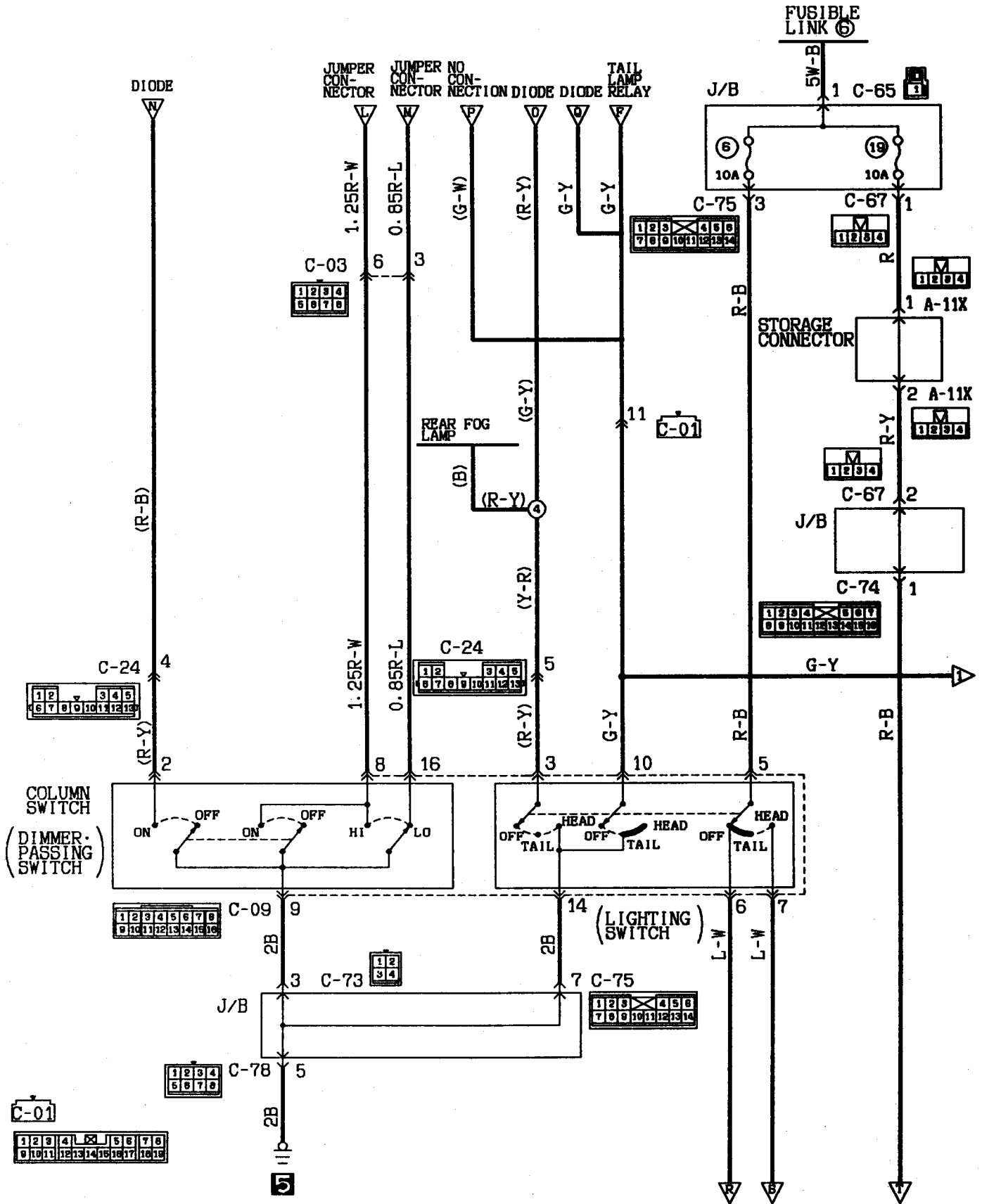
HEADLAMP

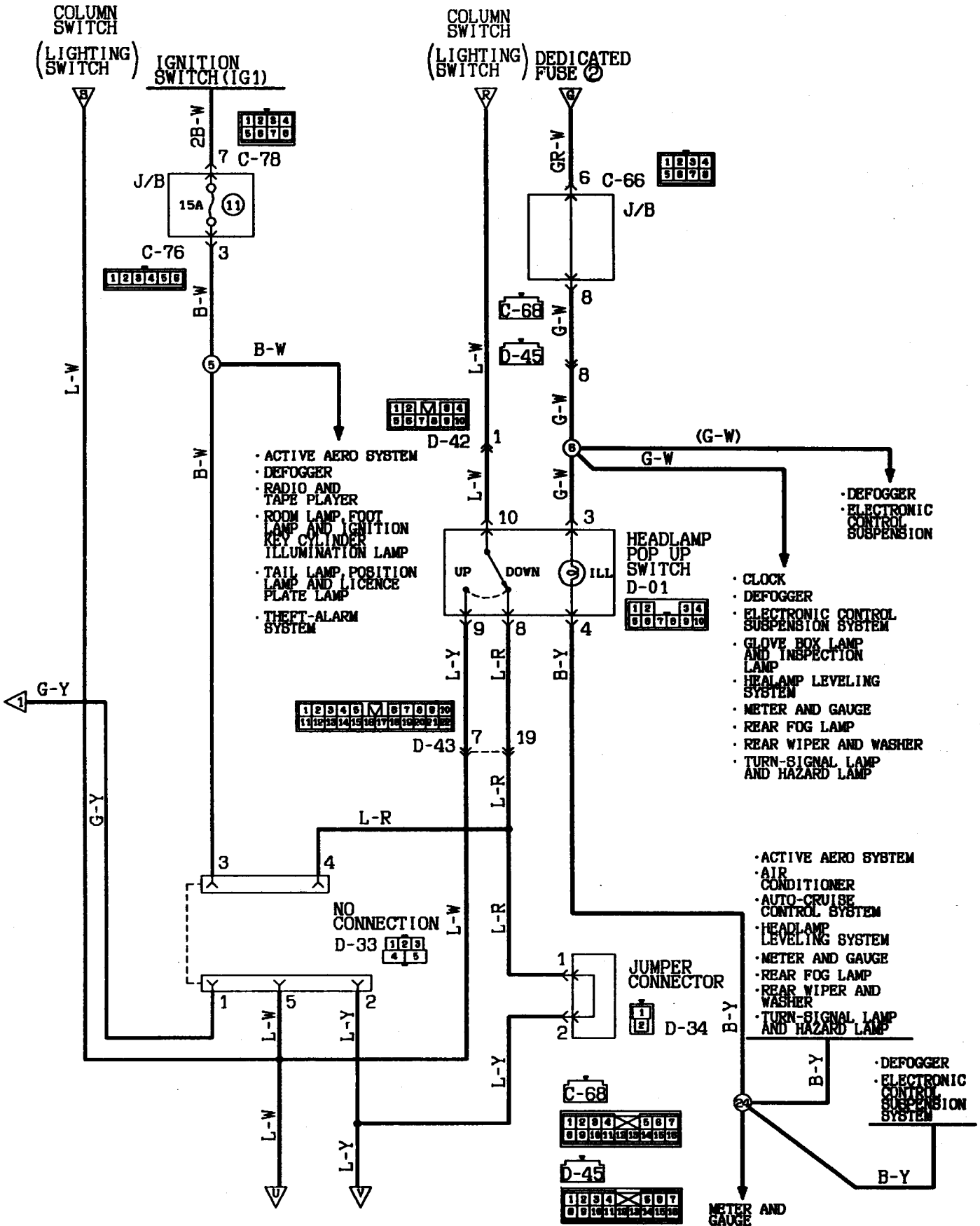
<R. H. drive vehicles without dim-dip lamp>



Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

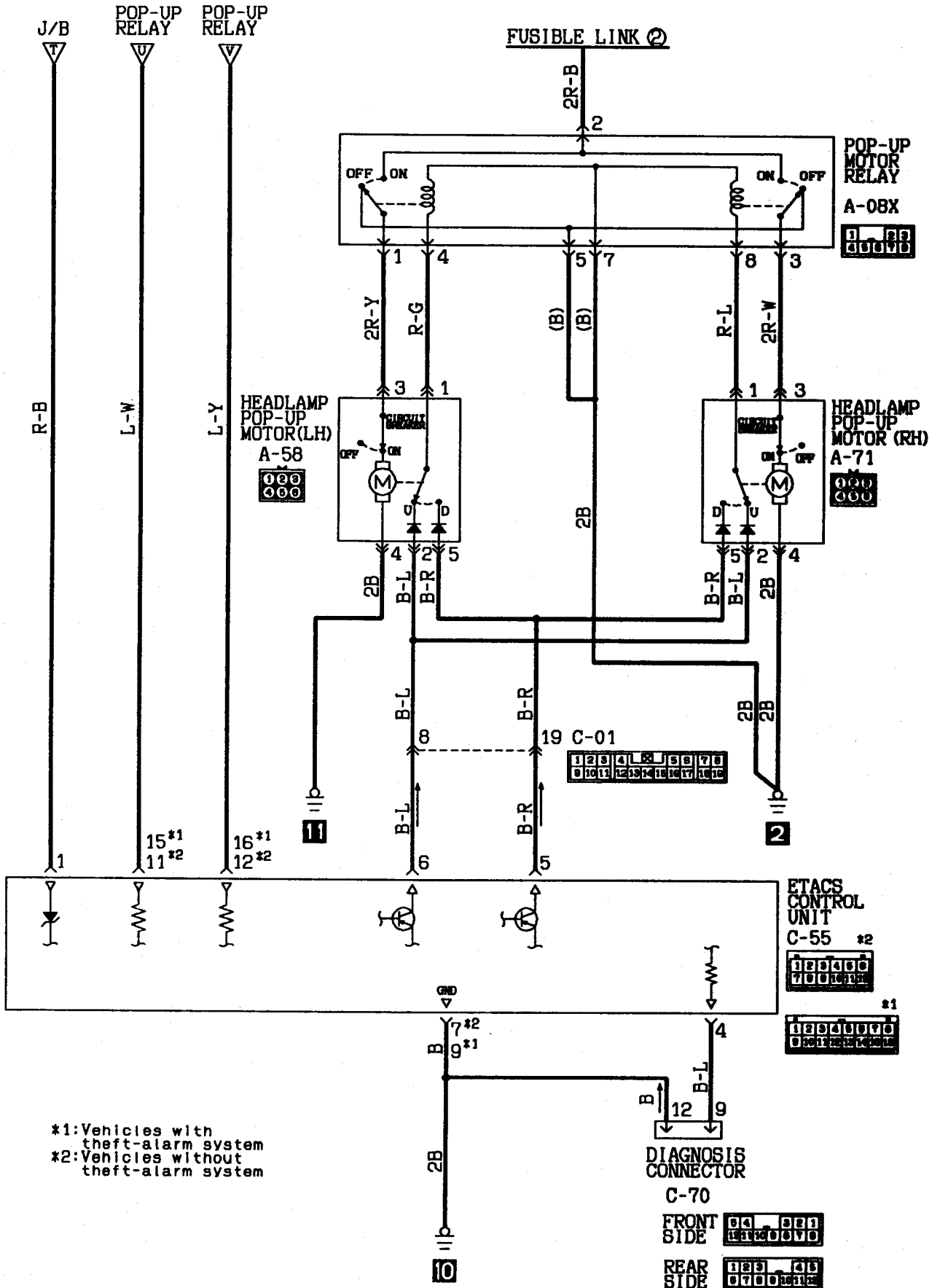






Wire colour code

B:Black LG:Light green G:Green L:Blue W:White Y:Yellow BB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



HEADLAMP <VEHICLES WITHOUT DAYTIME RUNNING LAMP AND DIM-DIP LAMP> (See P. 4-45, 50.)

OPERATION

<Headlamps ON operation>

- Turn the lighting switch to "HEAD", and the contact point of the headlamp relay will be closed to turn "ON" the headlamp relay.
- When the dimmer switch is placed in the LO position, the headlamp low-beams go on. When the switch is placed in the HI position, the headlamp high-beams go on.

<High-beam indicator lamp>

- When the high-beam is lit or when the passing switch is activated, the high-beam indicator lamp will be lit.

<Pop-up operation-Operation by lighting switch>

- When the lighting switch is placed in the HEAD position, current flows through multi-purpose fuse ⑥ to the lighting switch, and the ETACS control unit. Then the UP timer circuit in the ETACS control unit is operated, and current flows from the ETACS control unit to the U contact of the pop-up motor U/D (UP/DOWN) switch, the coil of the pop-up motor relay and earth, causing the contacts of the pop-up motor relay to close.

When the contacts of the pop-up motor relay close, current flows through the contacts of the pop-up motor relay to the pop-up motor and earth, causing the pop-up motor to rotate, which brings the headlamps to the UP position.

The pop-up motor rotates until the automatic UP stop position is reached, then the contacts of the interlocked U/D (UP/DOWN) switch change from the U to D contacts. As a result, the contacts of the pop-up motor relay open to cut off the current supplied to the pop-up motor. Then the pop-up motor ceases to rotate, holding the headlamps in the UP position.

- When the lighting switch is placed in the TAIL or OFF position, current flows through the multipurpose fuse ⑥ to the lighting switch, and the ETACS control unit. Then the DOWN timer circuit in the ETACS control unit is operated and current flows from the ETACS control unit to the DOWN contacts of the pop-up motor U/D (UP/DOWN) switch, the coil of the pop-up motor relay and earth causing the contacts of the pop-up motor relay to close.

When the contacts of the pop-up motor relay close, current flows through the contacts of the pop-up motor relay to the pop-up motor and earth, causing the pop-up motor to rotate, which brings the headlamps to the DOWN position.

The pop-up motor rotates until the automatic DOWN stop position is reached, then the contacts of the interlocked U/D (UP/DOWN) switch change from the D to U contacts. As a result, the contacts of the pop-up motor relay open to cut off current supply to the pop-up motor. Then the pop-up motor ceases to rotate, holding the headlamps in the DOWN position.

<Pop-up operation-Operation by pop-up switch>

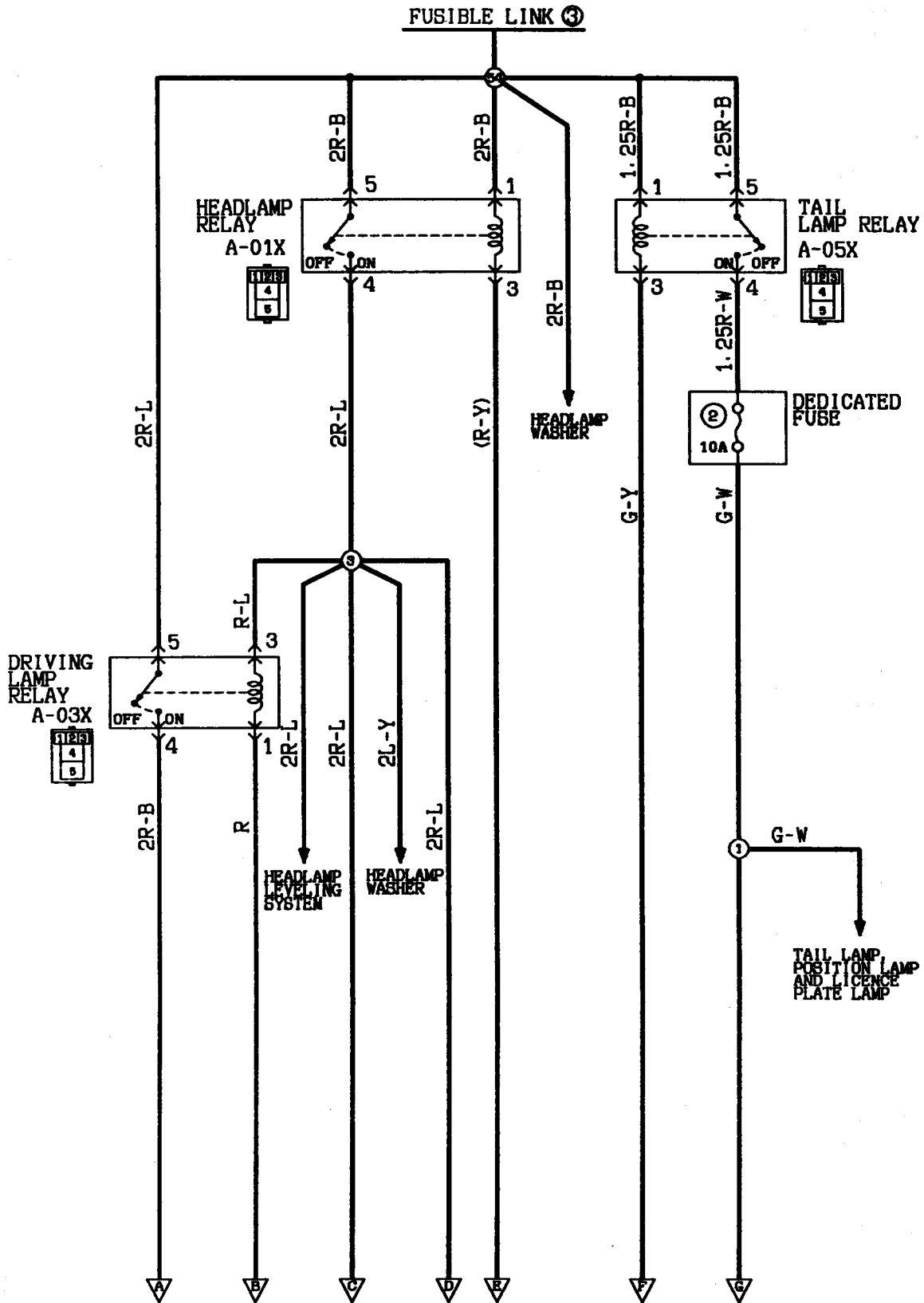
- When the pop-up switch is placed in the UP position, current flows through multi-purpose fuse ⑥ to the lighting switch, the pop-up switch and the ETACS control unit, which brings the headlamps to the UP position and holds them in the UP position just like when they are operated by the lighting switch.
- When the pop-up switch is placed in the DOWN position, current flows through the multipurpose fuse ⑥ to the lighting switch, the pop-up switch and the ETACS control unit, which brings the headlamps to the DOWN position and holds them in the DOWN position just like when they are operated by the lighting switch.

TROUBLESHOOTING HINTS

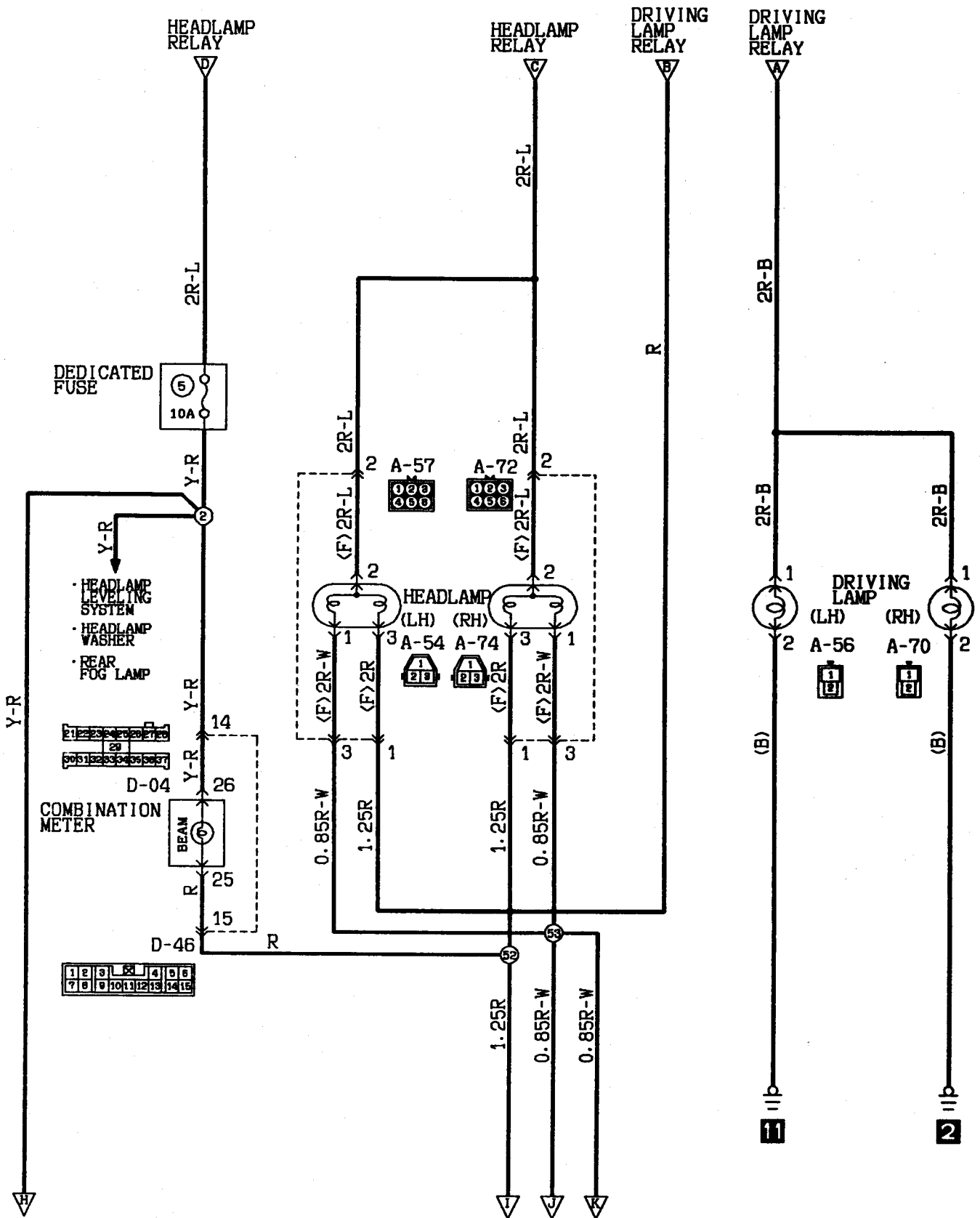
Phenomenon		Checking method
Headlamp don't come on.	But the tail lamps do illuminate.	<ul style="list-style-type: none"> • Check the headlamp relay. • Check the lighting switch.
	The tail lamps also don't illuminate.	<ul style="list-style-type: none"> • Check the fusible link ③.
The low beam at both sides doesn't illuminate.		<ul style="list-style-type: none"> • Check the "LO" contacts of the dimmer switch.
The upper beam at both sides doesn't illuminate.	The passing signal functions OK.	<ul style="list-style-type: none"> • Check the "HI" contacts of the dimmer switch.
	The passing signal doesn't function.	<ul style="list-style-type: none"> • Check the dimmer switch.
One headlamp doesn't illuminate.		<ul style="list-style-type: none"> • Check the bulb.
Can't switch from low to high beam or vice versa		<ul style="list-style-type: none"> • Check the dimmer switch.
The high beam indicator lamp doesn't illuminate.	The high beam of the headlamps is normal.	<ul style="list-style-type: none"> • Check dedicated fuse No. ⑤. • Check the bulb.
Headlamps do not rise.	They rise only when the lighting switch is operated.	<ul style="list-style-type: none"> • Check the pop-up switch input signal. • Check the pop-up switch.
	They rise only when the pop-up switch is operated.	<ul style="list-style-type: none"> • Check the lighting switch.
Headlamps do not retract.		<ul style="list-style-type: none"> • Check the pop-up switch input signal. • Check the pop-up switch.
One headlamp does not move.		<ul style="list-style-type: none"> • Check the pop-up motor relay.
		<ul style="list-style-type: none"> • Check the pop-up motor.

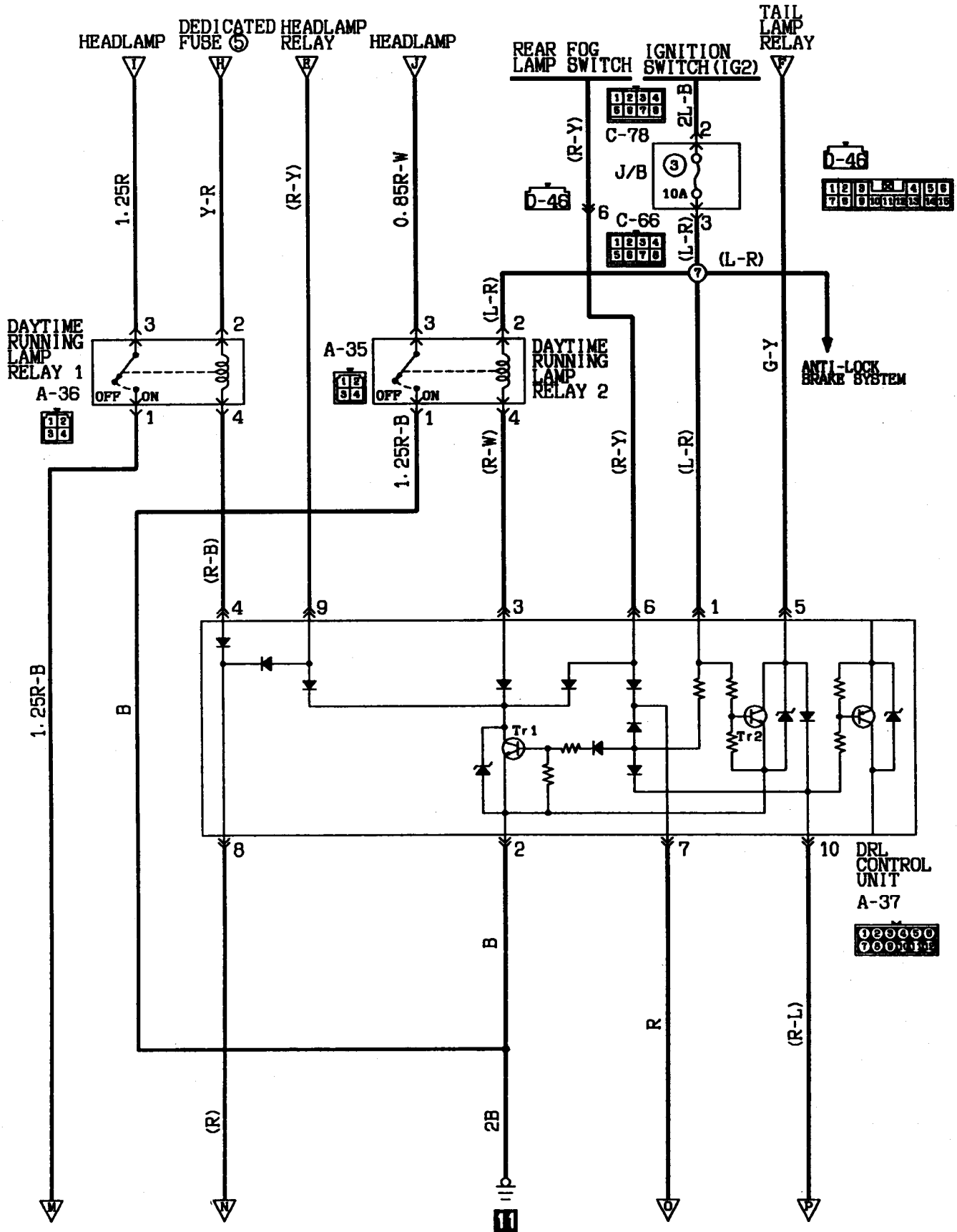
HEADLAMP

<L. H. drive vehicles with daytime running lamp>

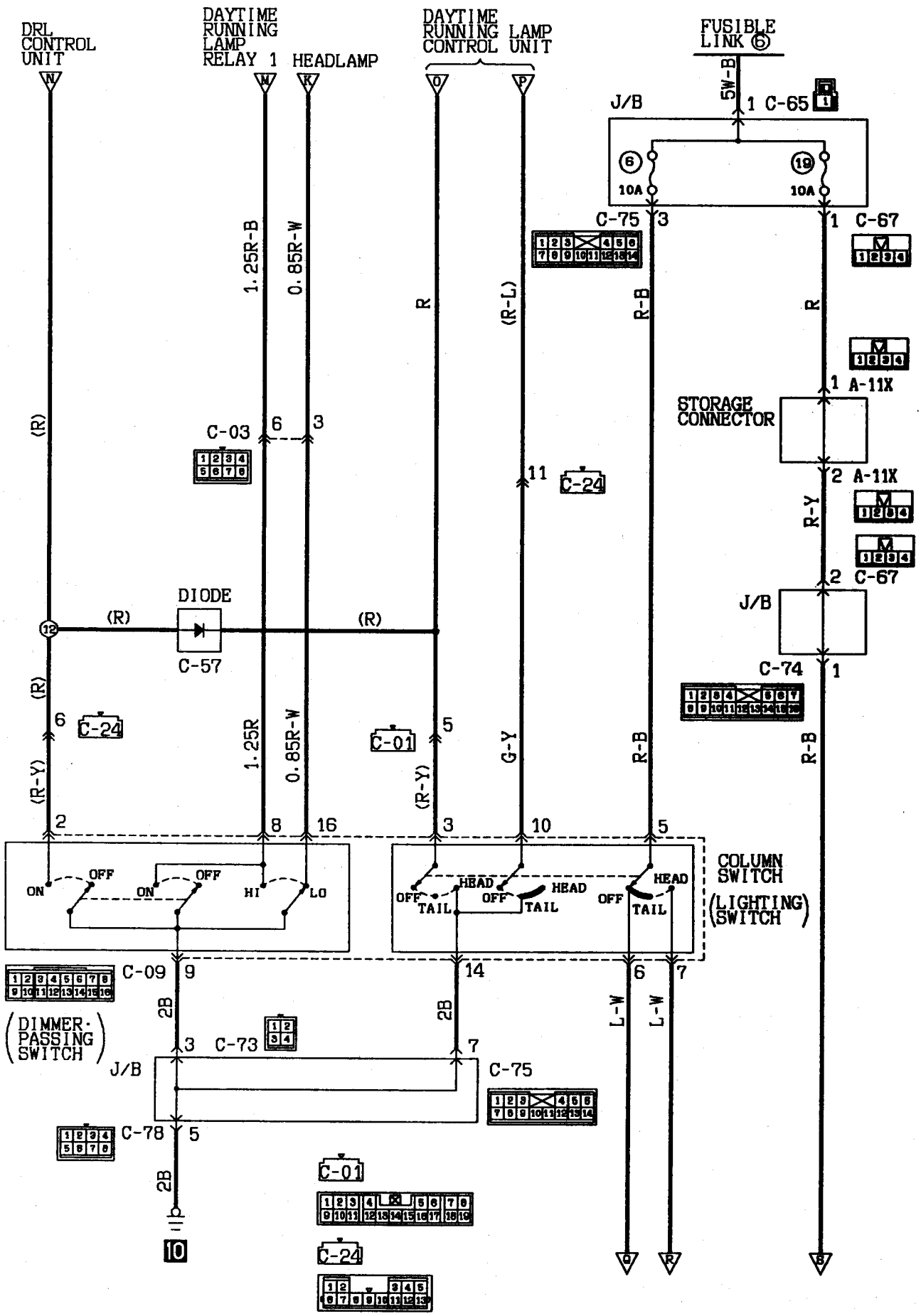


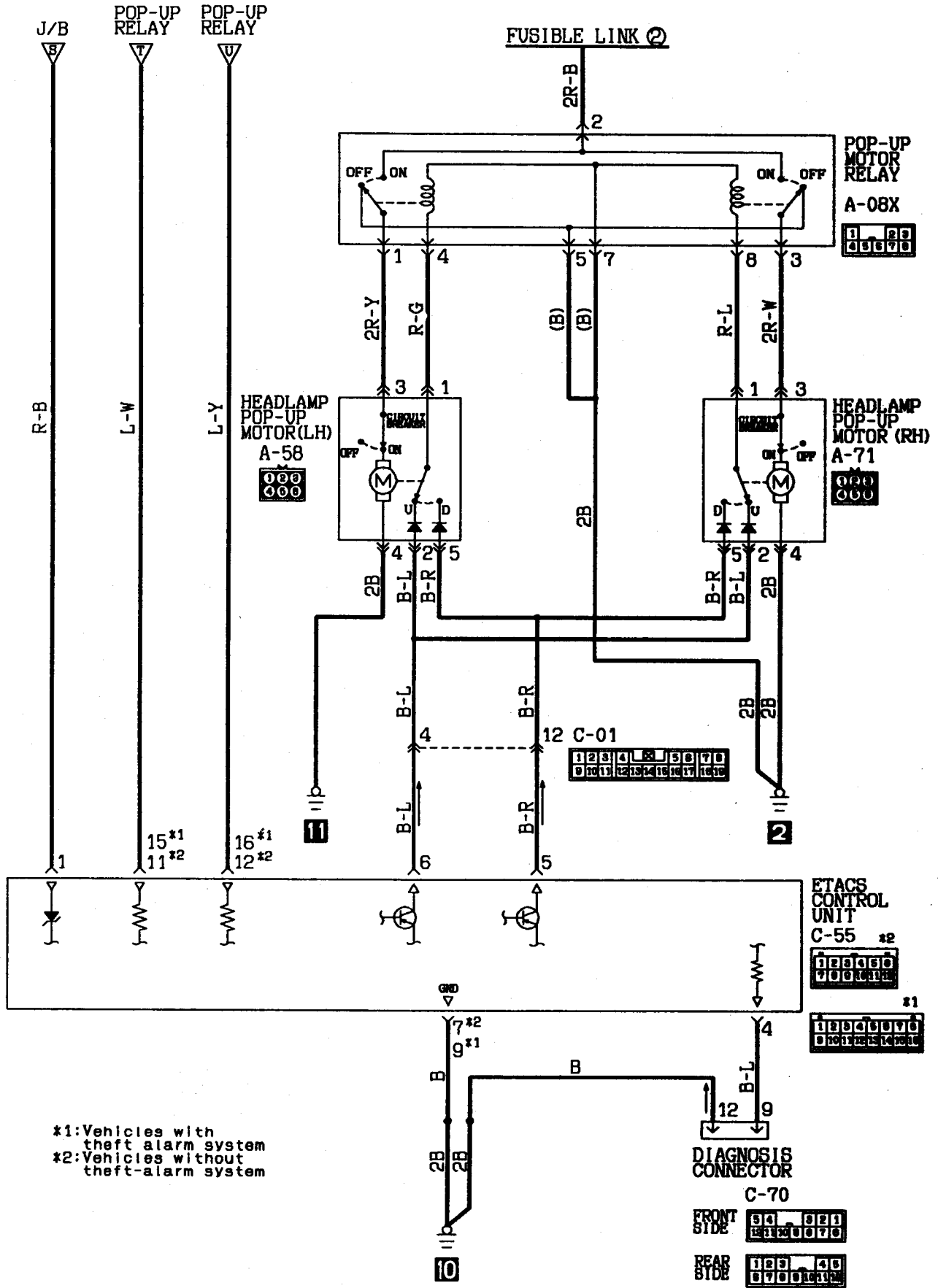
Wire colour code
 B:Black LG:Light green G:Green L:Blue W:White Y:Yellow BB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet





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





*1: Vehicles with theft alarm system
 *2: Vehicles without theft-alarm system

HEADLAMP <VEHICLES WITH DAYTIME RUNNING LAMP> (See P. 4-58.)**OPERATION****<Headlamps ON operation>**

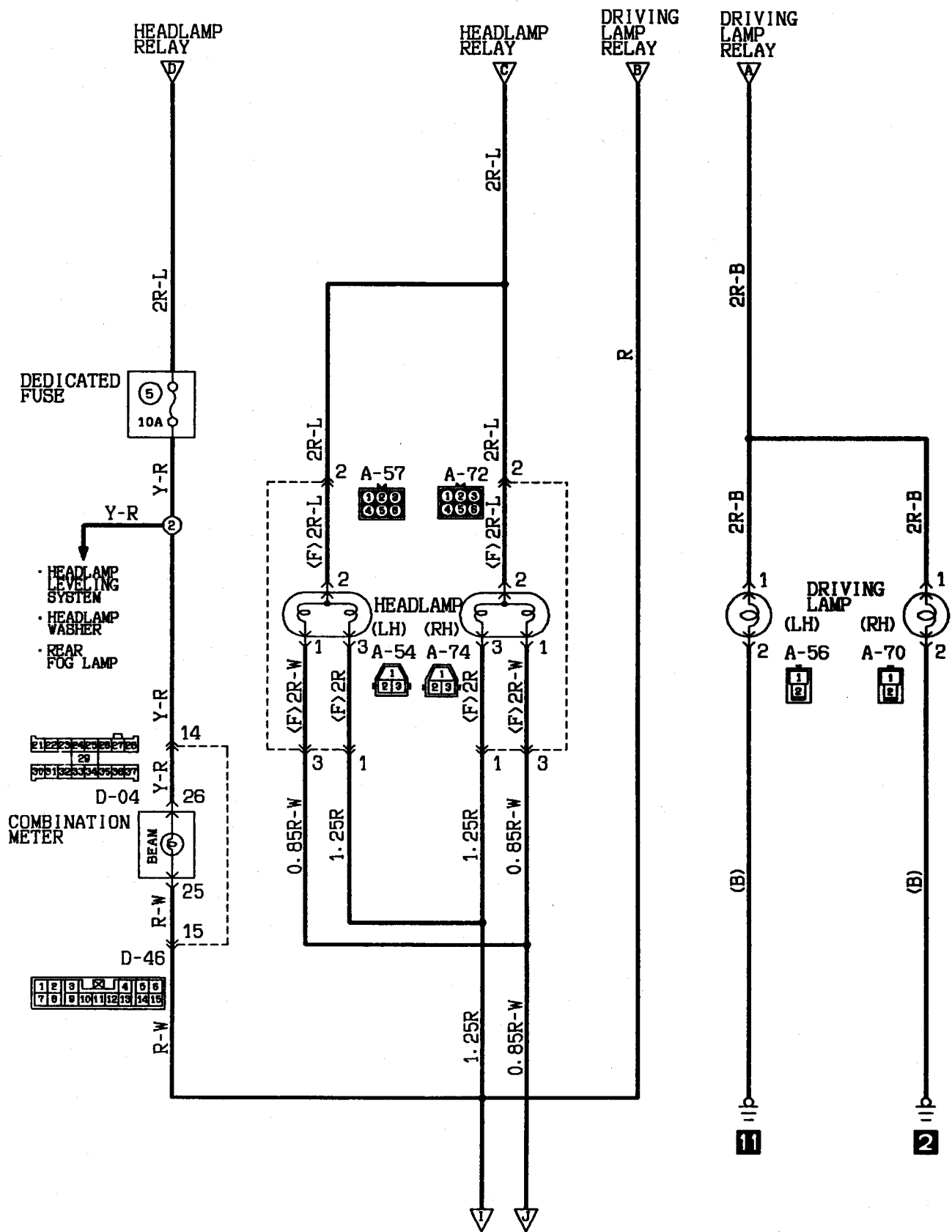
- Even if the lighting switch is "OFF", when the ignition switch is turned to "ON", transistor Tr1 inside the daytime running lamp control unit turns "ON", causing the contact point of daytime running lamp relay 2 to close, turning the relay "ON" and illuminating the low-beam headlamps.
- If the lighting switch is set to the "TAIL" position, the tail lamp relay turns "ON", and because transistor Tr2 and transistor Tr1 inside the daytime running lamp control unit turn "ON" and "OFF" respectively, the tail lamps illuminate without the headlamps illuminating.
- If the lighting switch is set to the "HEAD" position, the headlamp relay turns "ON" and the headlamps illuminate.

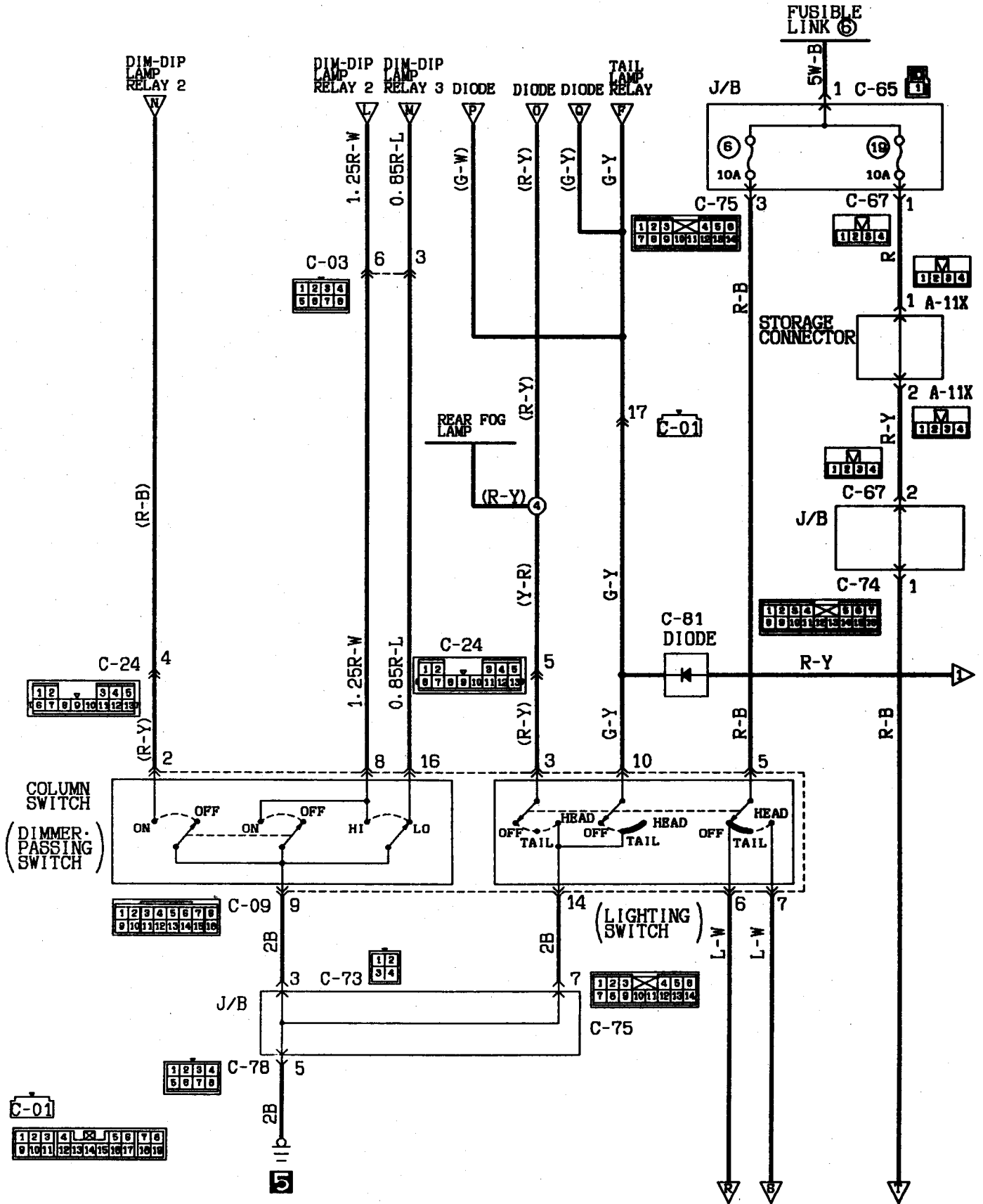
<Pop-up operation-Operation by lighting switch>

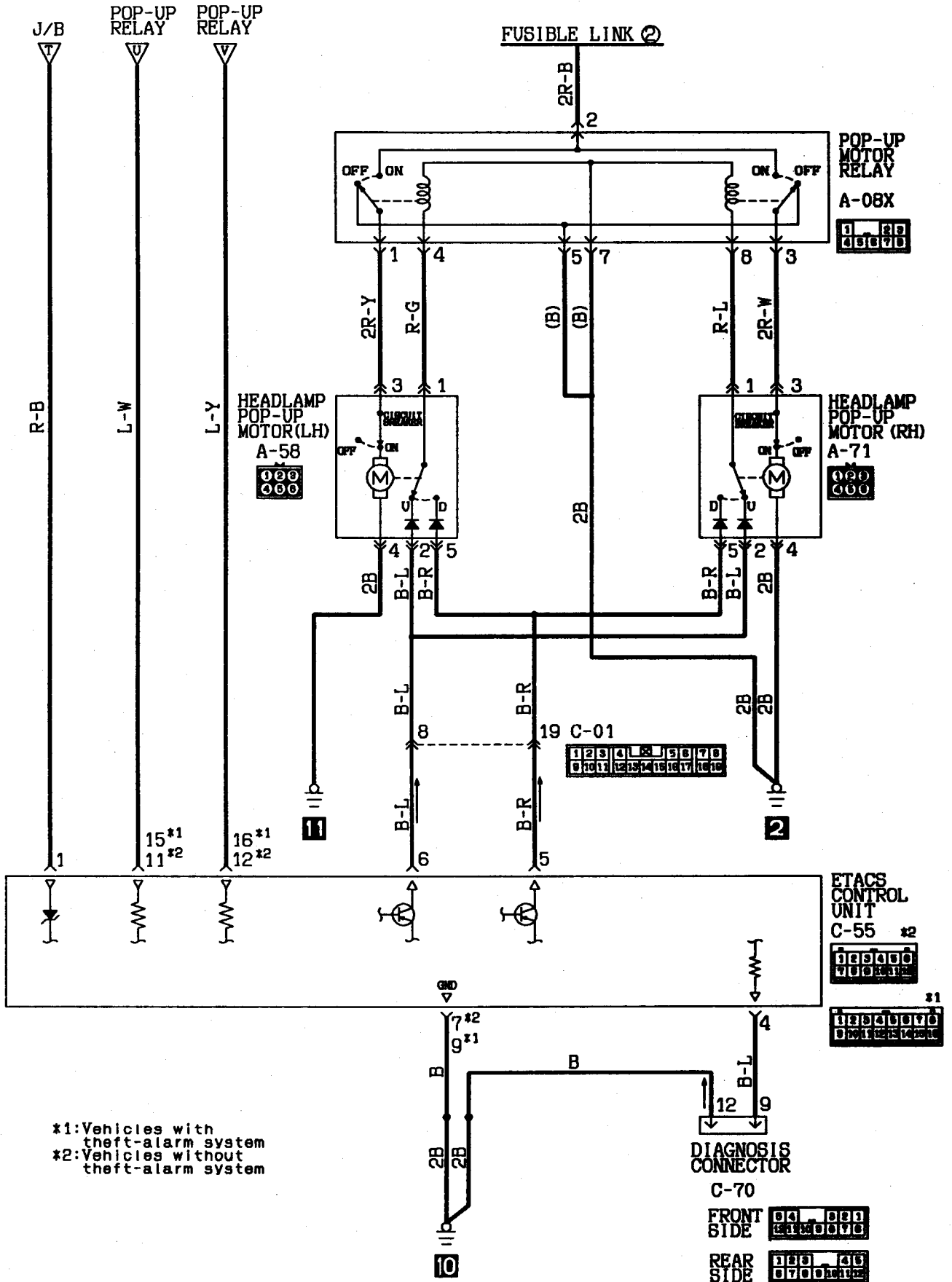
- For vehicles with daytime running lamps, when the ignition switch is turned to "ON", the pop-up relay normally turns "ON" independent of the lighting switch, and the ETACS up timer circuit operates, setting the headlamps to the UP position.

TROUBLESHOOTING HINTS

Phenomenon		Checking method
Headlamp don't come on.	But the tail lamps do illuminate.	<ul style="list-style-type: none"> • Check the headlamp relay. • Check the lighting switch. • Check the daytime running lamp relay 2
	The tail lamps also don't illuminate.	<ul style="list-style-type: none"> • Check the fusible link ③.
The low beam at both sides doesn't illuminate		<ul style="list-style-type: none"> • Check the "LO" contacts of the dimmer switch.
The upper beam at both sides doesn't illuminate.	The passing signal functions OK.	<ul style="list-style-type: none"> • Check the "HI" contacts of the dimmer switch.
	The passing signal doesn't function.	<ul style="list-style-type: none"> • Check the dimmer switch. • Check the daytime running lamp relay 1.
One headlamp doesn't illuminate.		<ul style="list-style-type: none"> • Check the bulb.
Can't switch from low to high beam or vice versa.		<ul style="list-style-type: none"> • Check the dimmer switch.
The high beam indicator lamp doesn't illuminate.	The high beam of the headlamps is normal.	<ul style="list-style-type: none"> • Check dedicated fuse No. ⑤. • Check the bulb.
Headlamps do not rise.	They rise only when the ignition switch is "OFF" and lighting switch is set to the HEAD position.	<ul style="list-style-type: none"> • Check the pop-up switch • Check the pop-up switch input signal. • Check the pop-up relay.
	They rise only when the ignition switch is "ON".	<ul style="list-style-type: none"> • Check the pop-up switch • Check the pop-up switch input signal.
	They rise only when the pop-up switch is operated.	<ul style="list-style-type: none"> • Check the lighting switch • Check the pop-up relay.
Headlamps do not retract.		<ul style="list-style-type: none"> • Check the pop-up switch input signal. • Check the pop-up switch.
One headlamp does not move.		<ul style="list-style-type: none"> • Check the pop-up motor relay.
		<ul style="list-style-type: none"> • Check the pop-up motor.







*1: Vehicles with theft-alarm system
 *2: Vehicles without theft-alarm system

HEADLAMP <VEHICLES WITH DIM-DIP LAMP> (See P. 4-66.)**OPERATION****<Headlamps ON operation>**

- When the ignition switch is "ON" and the lighting switch is set to the "TAIL" position, the contact point of dim-dip lamp relay 1 closes, and the headlamps illuminate. The contact point of dim-dip lamp relay 1 is connected to the earth via a resistor, so when the headlamps illuminate dimmer than normally.

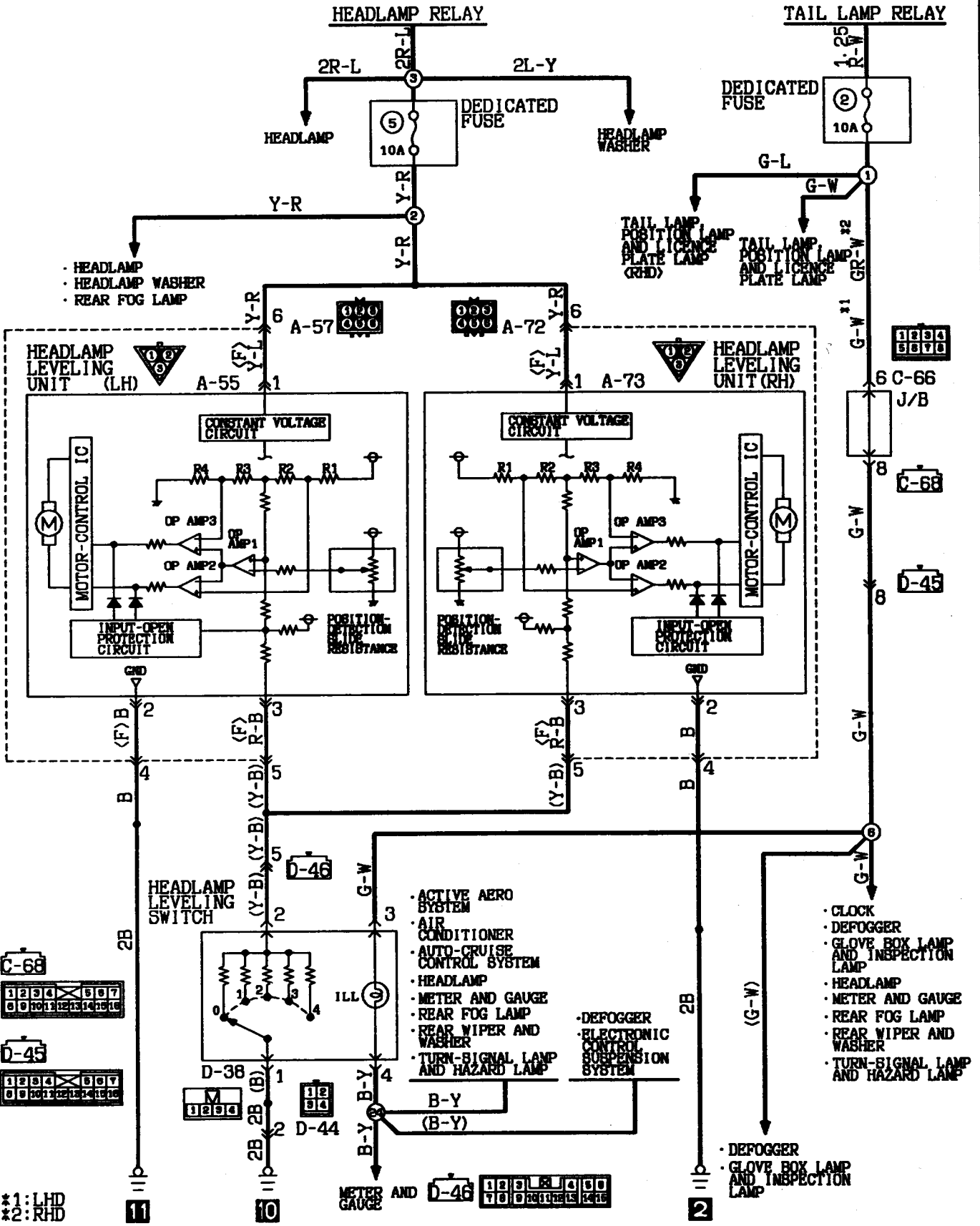
<Pop-up operation-Operation by lighting switch>

- For vehicles with dim-dip lamps, when the ignition switch is turned to "ON", the pop-up relay normally turns "ON" independent of the lighting switch, and the ETACS up timer circuit operates, setting the headlamps to the UP position.

TROUBLESHOOTING HINTS

Phenomenon		Checking method
Headlamps don't illuminate even when the lighting switch is in the "HEAD" position.	But the tail lamps do illuminate.	<ul style="list-style-type: none"> • Check the headlamp relay. • Check the lighting switch. • Check the dim-dip lamp relay 2 and 3
	The tail lamps also don't illuminate.	<ul style="list-style-type: none"> • Check the fusible link ③.
Headlamps do not illuminate dimmer than normally even when the lighting switch is in the "TAIL" position.	But the tail lamps do illuminate.	<ul style="list-style-type: none"> • Check the headlamp relay. • Check the lighting switch. • Check the dim-dip lamp relay 1.
	The tail lamps also don't illuminate.	<ul style="list-style-type: none"> • Check the fusible link ③.
The low beam at both sides doesn't illuminate.		<ul style="list-style-type: none"> • Check the "LO" contacts of the dimmer switch.
The upper beam at both sides doesn't illuminate.	The passing signal functions OK.	<ul style="list-style-type: none"> • Check the "HI" contacts of the dimmer switch.
	The passing signal doesn't function.	<ul style="list-style-type: none"> • Check the dimmer switch.
One headlamp doesn't illuminate.		<ul style="list-style-type: none"> • Check the bulb.
Can't switch from low to high beam or vice versa.		<ul style="list-style-type: none"> • Check the dimmer switch.
The high beam indicator lamp doesn't illuminate.	The high beam of the headlamps is normal.	<ul style="list-style-type: none"> • Check dedicated fuse No. ⑤. • Check the bulb.
Headlamps do not rise.	They rise only when the ignition switch is "OFF" and lighting switch is set to the HEAD position.	<ul style="list-style-type: none"> • Check the pop-up switch • Check the pop-up switch input signal • Check the pop-up relay
	They rise only when the ignition switch is "ON".	<ul style="list-style-type: none"> • Check the pop-up switch • Check the pop-up switch input signal
	They rise only when the pop-up switch is operated.	<ul style="list-style-type: none"> • Check the lighting switch. • Check the pop-up relay.
Headlamps do not retract.		<ul style="list-style-type: none"> • Check the pop-up switch input signal. • Check the pop-up switch.
One headlamp does not move.		<ul style="list-style-type: none"> • Check the pop-up motor relay.
		<ul style="list-style-type: none"> • Check the pop-up motor.

HEADLAMP (Headlamp leveling system)



*1: LHD
*2: RHD

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

HEADLAMP-LEVELING SYSTEM (See P. 4-74.)**OPERATION****1. Headlamps angle-downward operation**

- When the lighting switch is set to the "HEAD" position, the headlamp relay is switched ON, and battery voltage is applied, through the headlamp-leveling unit, to dedicated fuse No. ⑤.
- When the headlamp-leveling switch setting is changed from "0" to "1", the positive (+) input terminal voltage of the comparator OP AMP 1 (located within the headlamp-leveling unit) becomes greater than the negative (−) input terminal standard reference voltage value, and OP AMP 1 outputs HIGH signals to OP AMP 2 and OP AMP 3.
- As a result of these HIGH signals, OP AMP 2 outputs LOW signals and OP AMP 3 outputs HIGH signals to the motor-control IC.
- When this happens, the motor-control IC is switched ON, current flows to the motor, and the motor rotates in the forward direction.
- The rotation of the motor, after passing through the gears and the output shaft, causes the headlamp reflectors to move to a downward angle, thus changing the angle of headlamp illumination.
- At this time, the position-detection sliding resistance is activated in the direction of the low resistance value, after which the OP AMP 1 negative (−) input terminal voltage value and positive (+) input terminal voltage value become equivalent, and OP AMP 2 and OP AMP 3 both output HIGH signals.
- When this happens, the motor-control IC is switched OFF and the motor stops.

NOTE

- (1) The same operation occurs if the headlamp-leveling switch is set to another position.
- (2) The input open protection circuit functions to stop the operation of the motor if there is an abnormal condition, such as damaged or disconnected wiring within the headlamp-leveling unit or of the wiring harness.

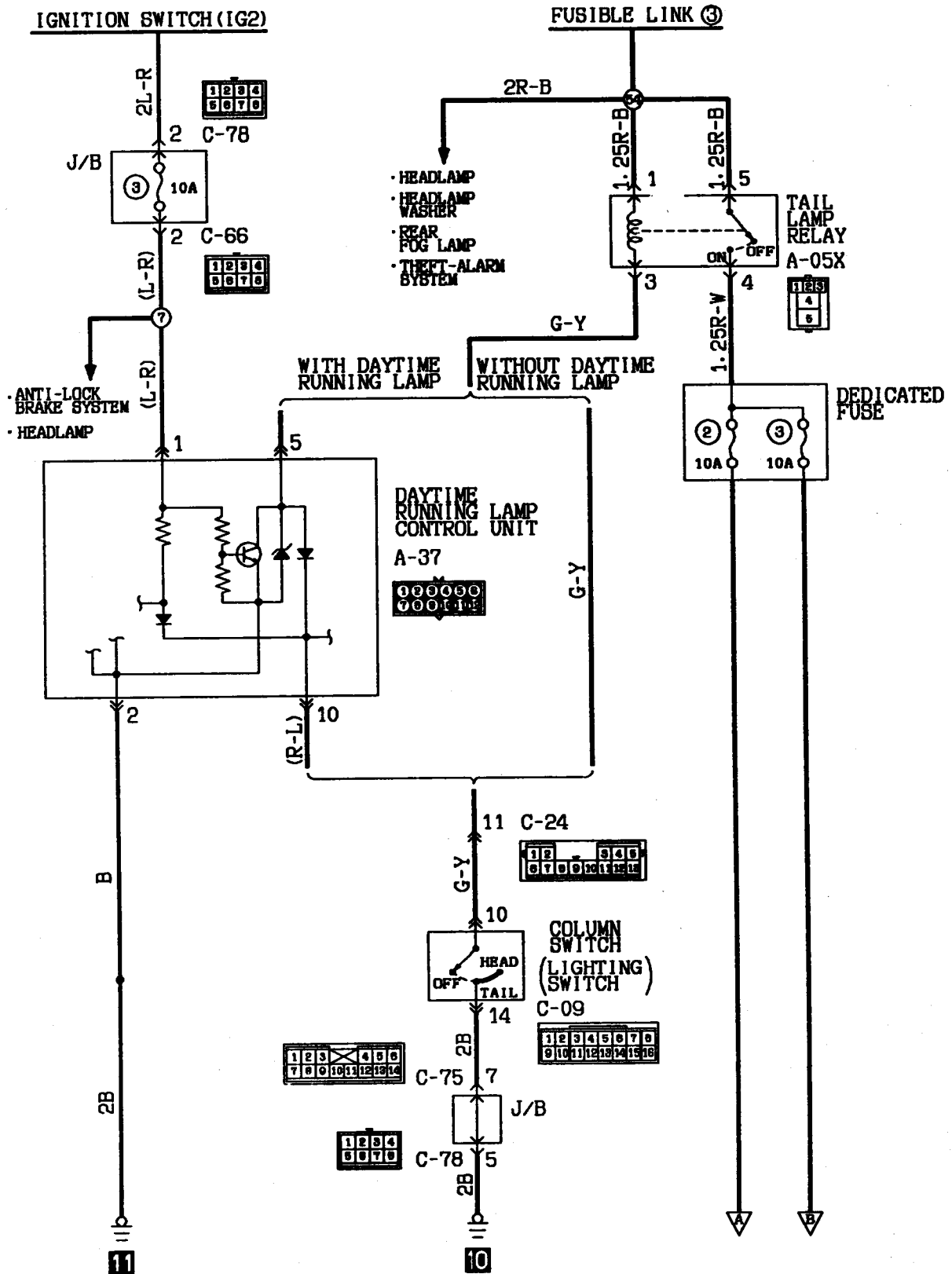
2. Headlamps angle-upward operation

- The headlamp angle-upward operation is the opposite logic of the downward operation; the motor operates in the reverse direction and then stops.

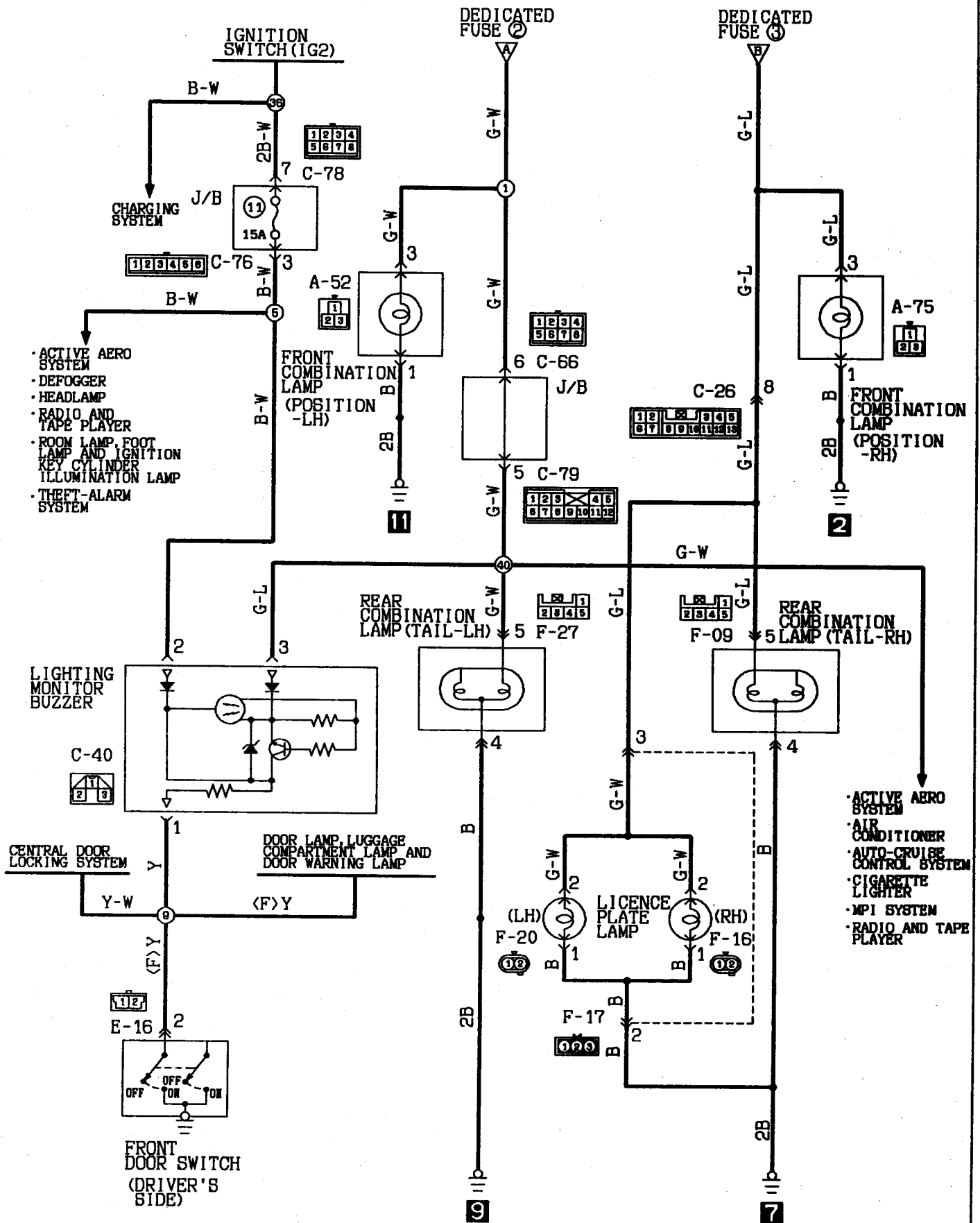
TROUBLESHOOTING HINTS

1. Absolutely no change of the headlamp angle
 - (1) The upper-beam indicator lamp illuminates.
 - Check the headlamp-leveling switch.
 - Check the headlamp-leveling unit.
 - (2) The upper-beam indicator lamp does not illuminate.
 - Check dedicated fuse No. ⑤.
2. There is one setting of the headlamp-leveling switch at which the headlamp angle does not change.
 - Check the headlamp-leveling switch.

TAIL LAMP, POSITION LAMP AND LICENCE PLATE LAMP
(L.H. drive vehicles)



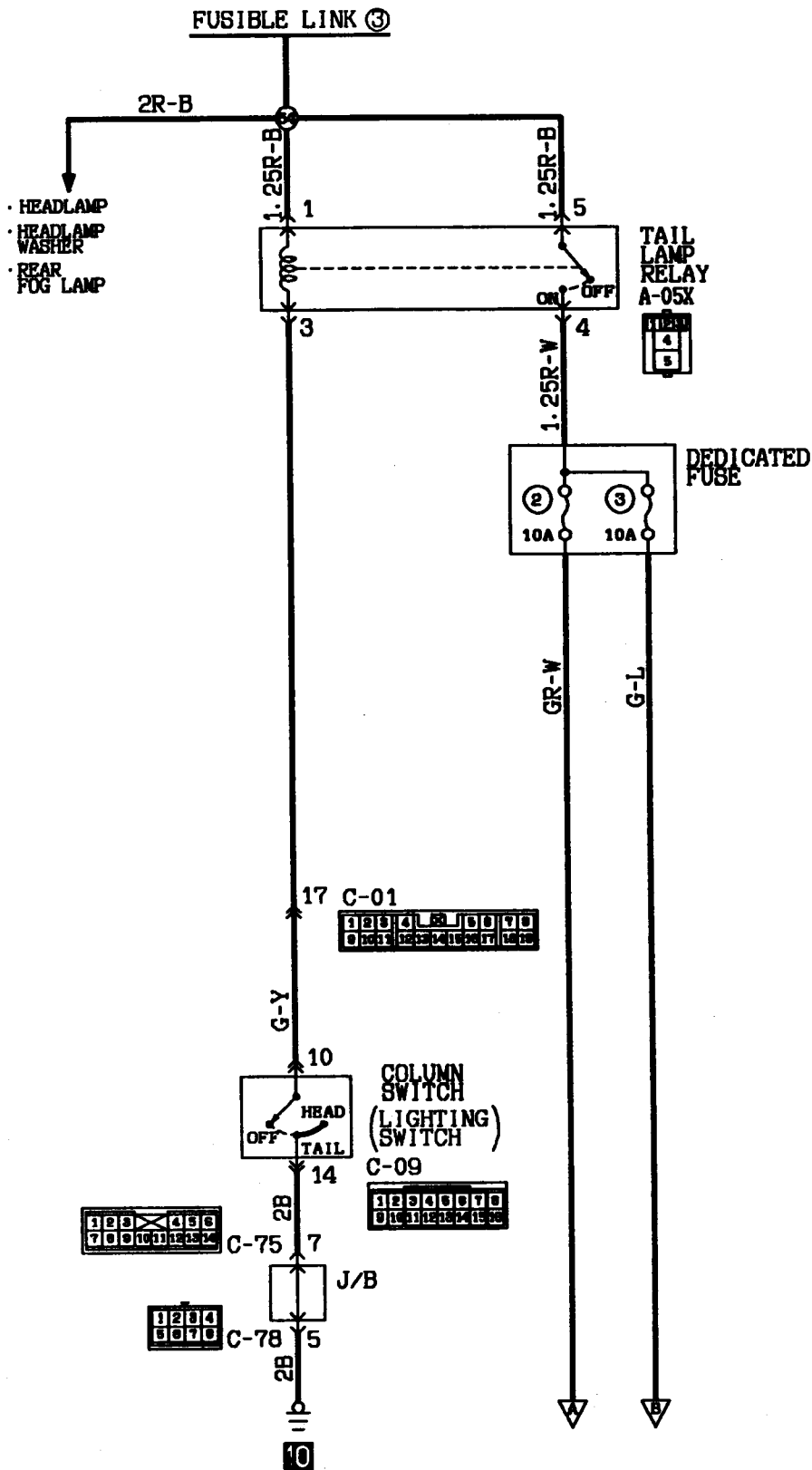
Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



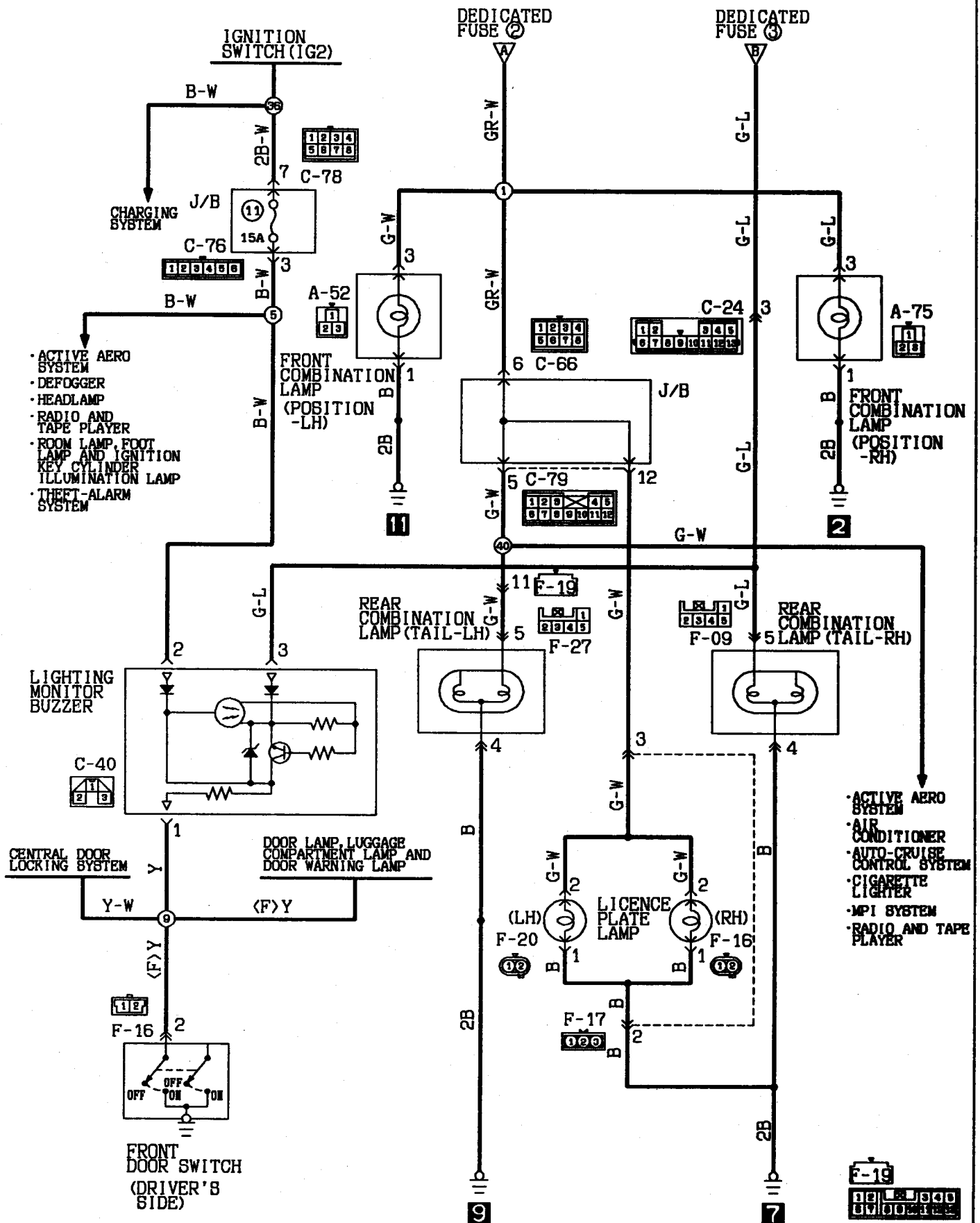
- ACTIVE AERO SYSTEM
- AIR CONDITIONER
- AUTO-CRUISE CONTROL SYSTEM
- CIGARETTE LIGHTER
- MPI SYSTEM
- RADIO AND TAPE PLAYER

4-78 CIRCUIT DIAGRAM — Tail Lamp, Position Lamp and Licence Plate Lamp

TAIL LAMP, POSITION LAMP AND LICENCE PLATE LAMP
(R. H. drive vehicles)



Wire colour code
 B:Black LG:Light green G:Green L:Blue V:White Y:Yellow BB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



TAIL LAMP, POSITION LAMP AND LICENCE PLATE LAMP (See P. 4-76, 78.)

OPERATION

- When the lighting switch is placed in the TAIL or HEAD position, current flows through the coil of the tail lamp relay to the lighting switch and earth, causing the contacts of the tail lamp relay to close. Then current flows through the contacts of the tail lamp relay to the dedicated fuse ② and ③, the individual lamps and earth, causing the tail lamps, position lamps and licence plate lamps to go ON.

<Lighting monitor buzzer system>

- Placing the lighting switch in the TAIL or HEAD position causes the tail lamp relay to be energized.
- When the ignition switch is in the "OFF" position in this condition, if the driver's side door is opened and the front door switch turns "ON", the buzzer sounds to indicate that the lamps are not switched off.

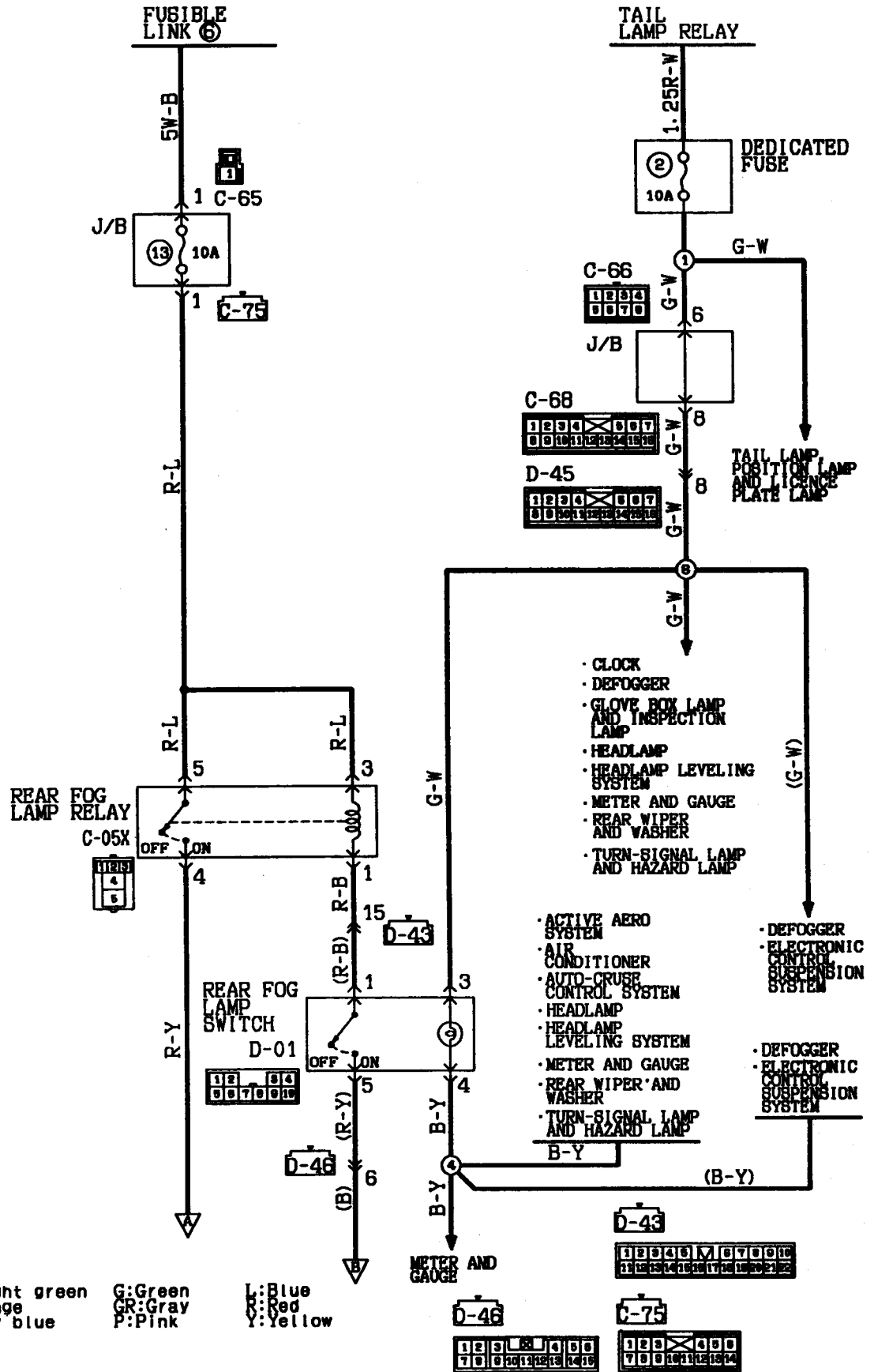
TROUBLESHOOTING HINTS

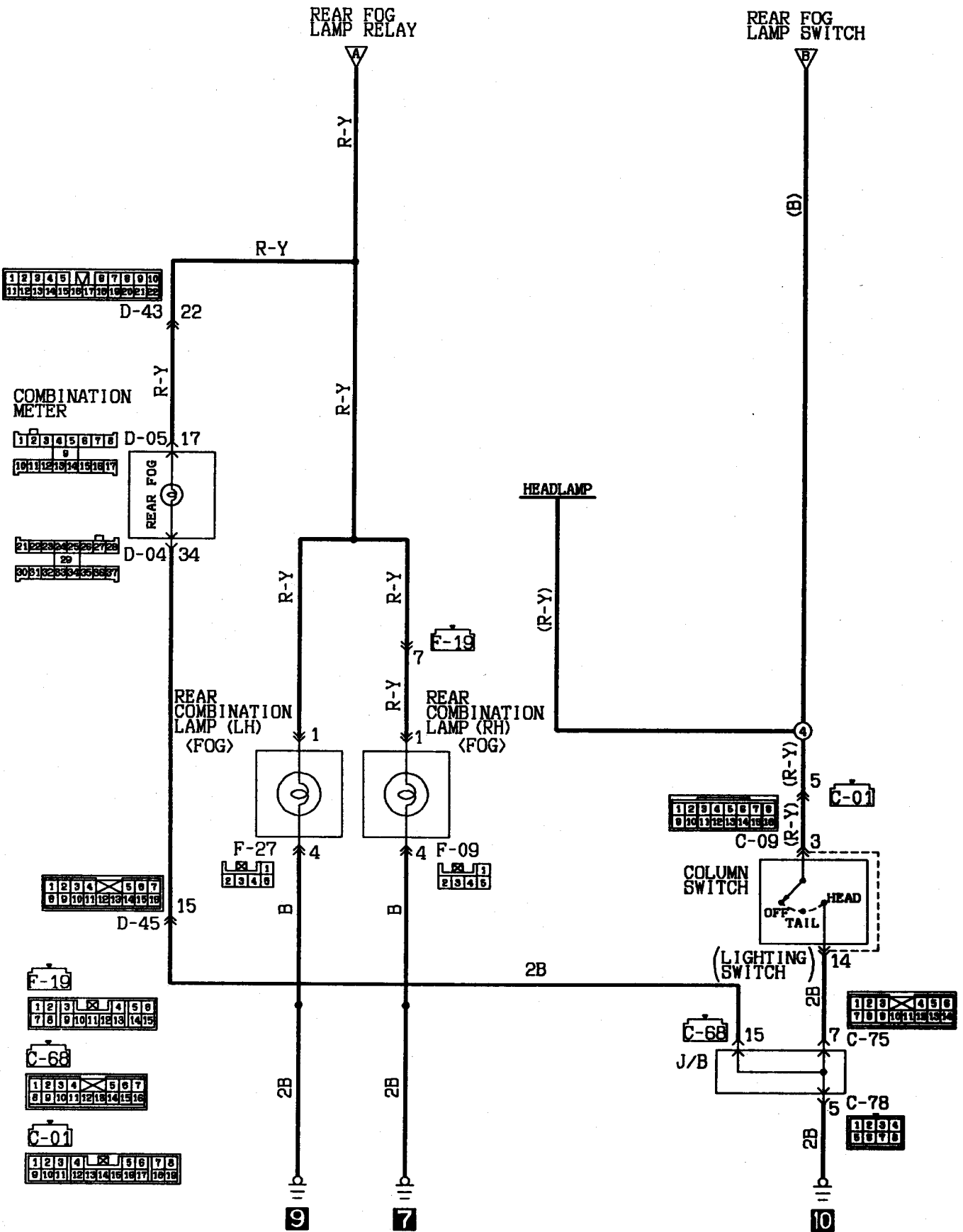
1. All lamps don't illuminate.
 - (1) The headlamps don't illuminate, either.
 - Check the fusible link ③.
 - (2) The headlamps illuminate.
 - Check the tail lamp relay.
 - Check the dedicated fuse ② and ③.
 - Check the lighting switch.
2. Any lamp does not come on.
 - Check the bulb.
 - Check the earthing circuit.
3. Lighting monitor buzzer doesn't sound.
 - (1) But the tail lamps do illuminate.
 - Check the lighting monitor buzzer.
 - Check the front door switch (driver's side).
 - (2) The tail lamps also don't illuminate.
 - Check the sub fusible link No. ③.
 - Check the dedicated fuse No. ②.

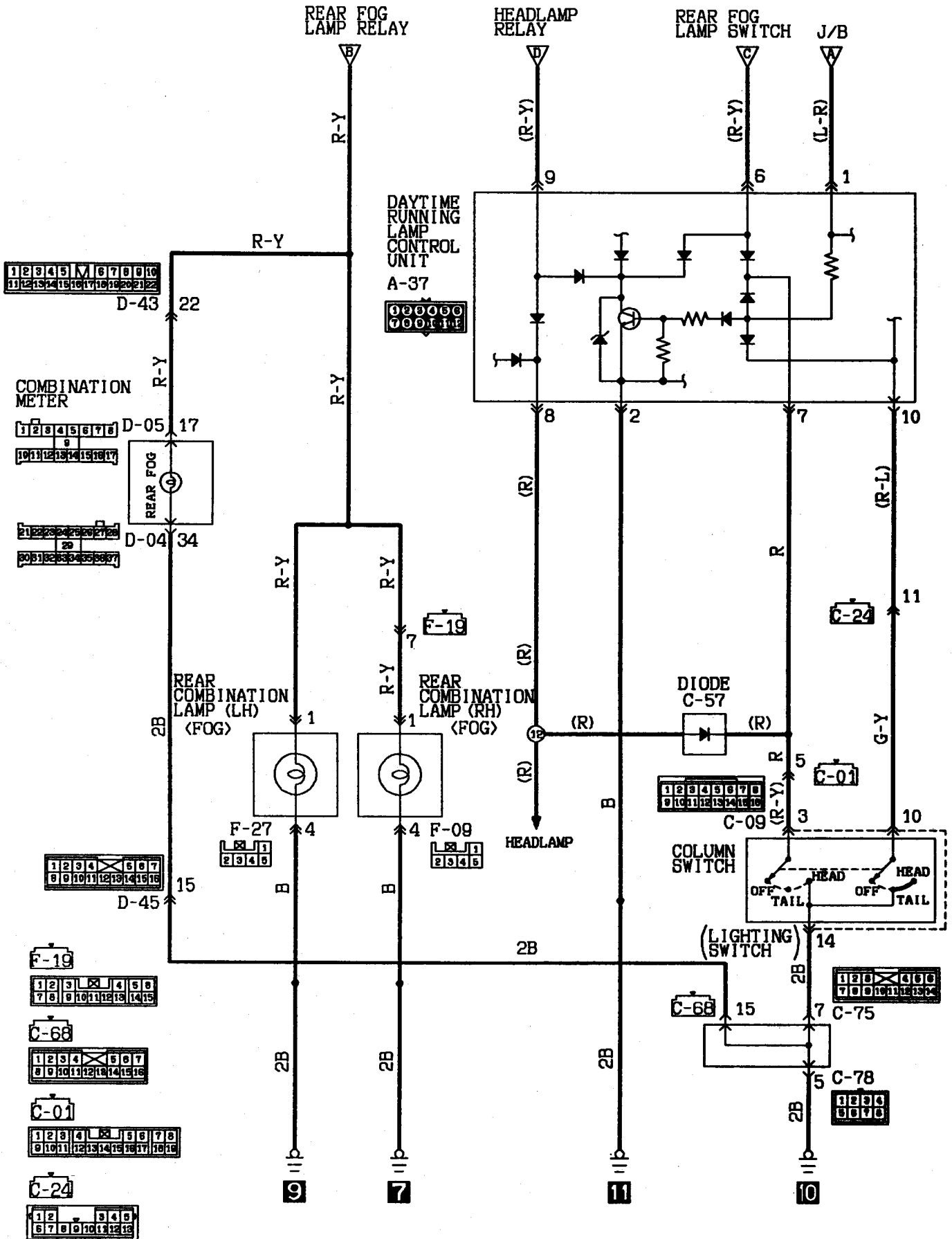
NOTES

REAR FOG LAMP

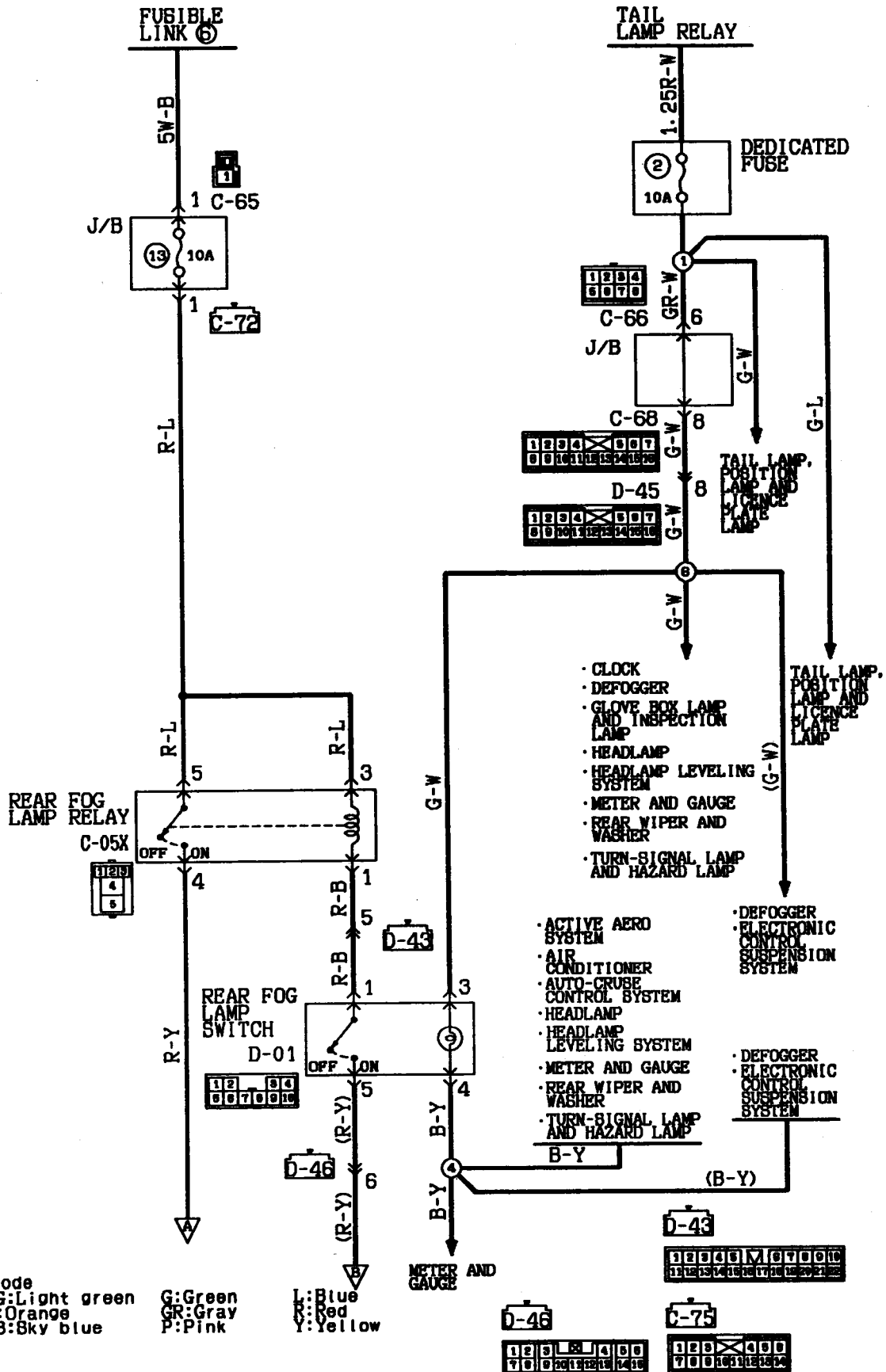
<L.H. drive vehicles without daytime running lamp>

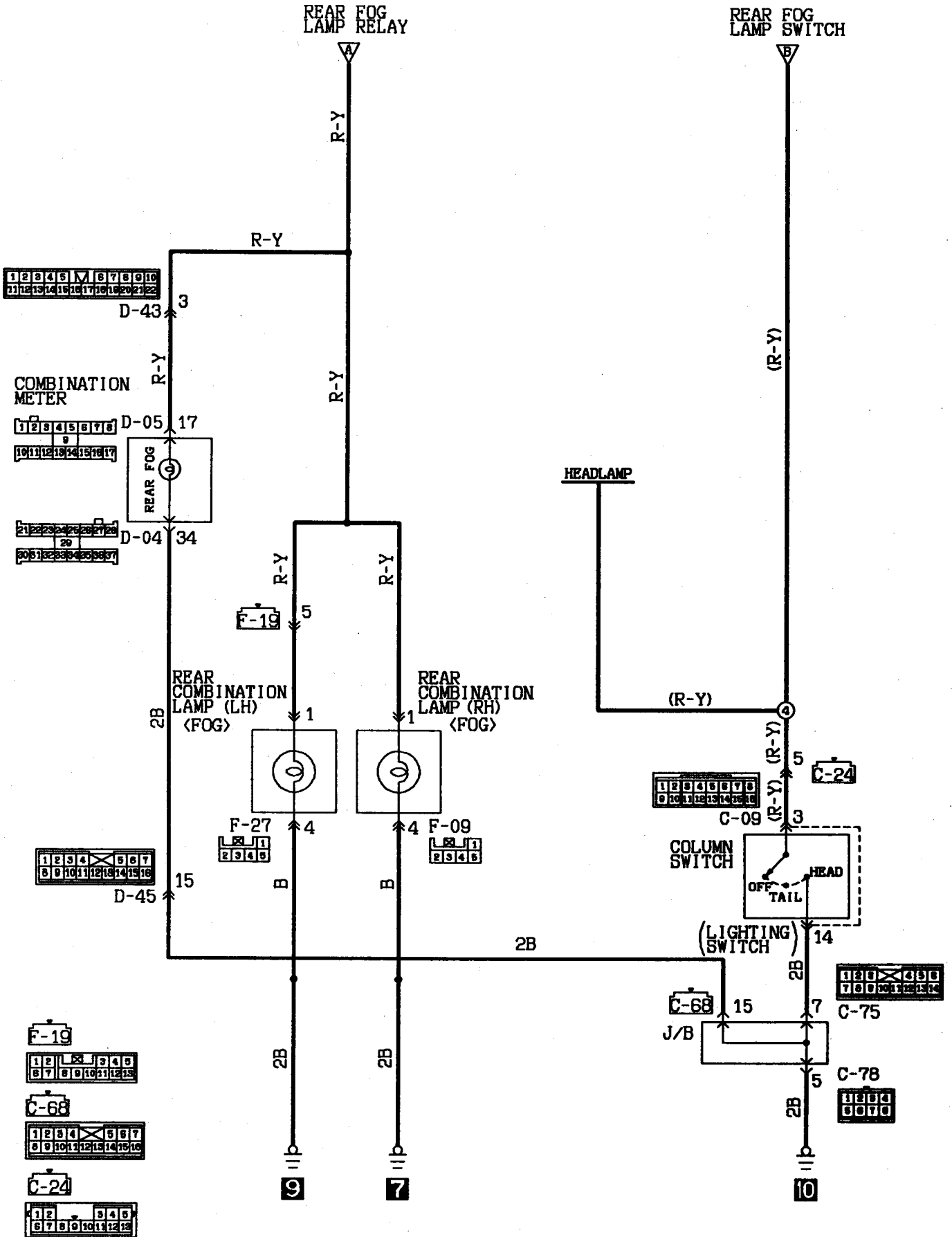






REAR FOG LAMP
<R. H. drive vehicles>





REAR FOG LAMP (See P. 4-82, 84, 86.)

OPERATION

Rear Fog lamp Relay ON Conditions

Ignition switch	Lighting switch	Rear fog lamp relay
—	"HEAD"	"ON"

- If the lighting switch is in the "HEAD" position and the rear fog lamp switch is set to "ON", the rear fog lamp relay turns "ON" and the rear fog lamps illuminate.

TROUBLESHOOTING HINTS

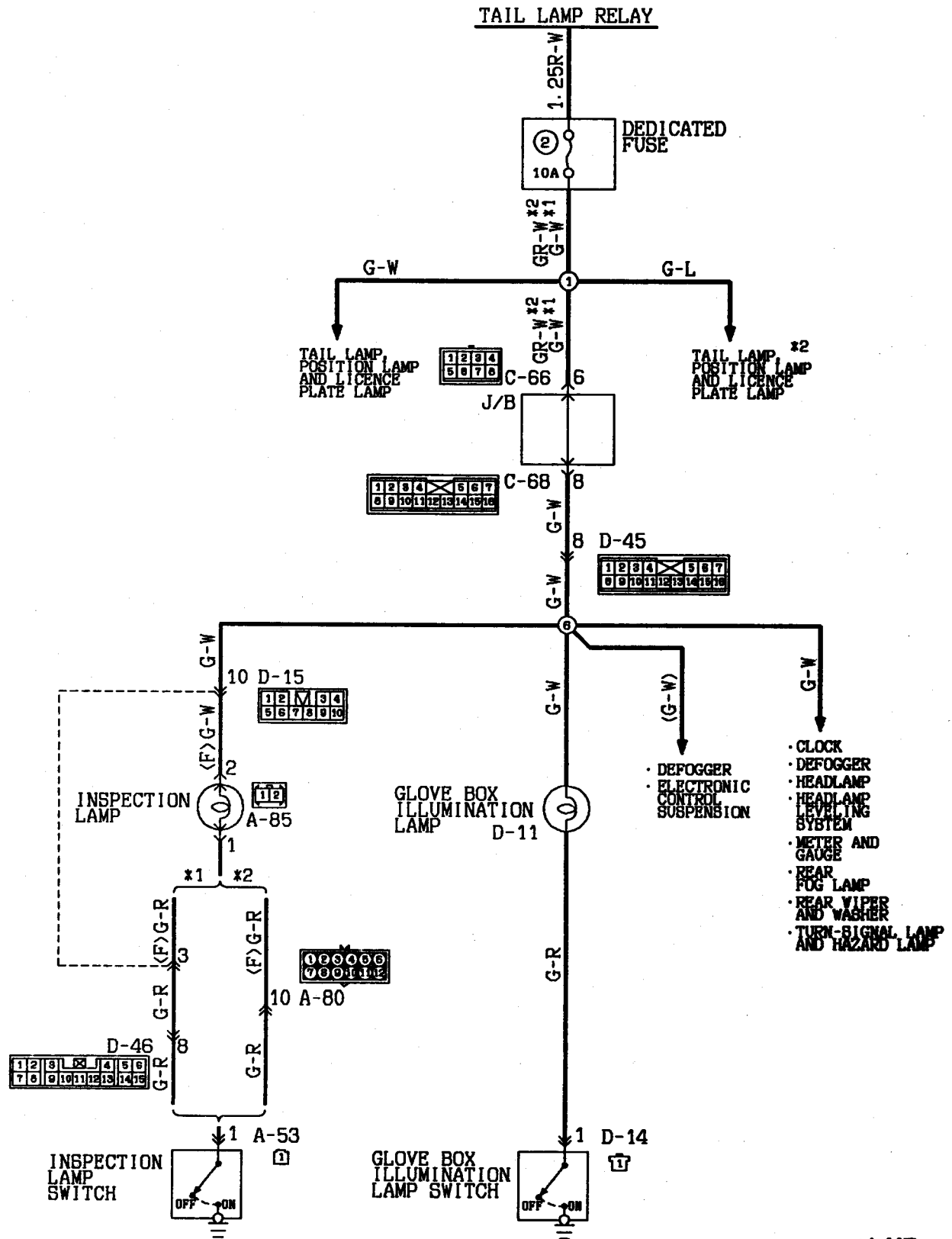
1. The rear fog lamp doesn't illuminate.
 - 1) Headlamps go on.
 - Check the rear fog lamp relay.
 - Check the rear fog lamp switch.
 - Check the dedicated fuse No. ⑬.
 - 2) Headlamps do not go on, either.
 - Check the lighting switch.
 - Check the fusible link No. ③.
2. The rear fog lamp at the one side doesn't illuminate.
 - Check the lamp bulb.

GLOVE BOX LAMP AND INSPECTION LAMP (See P. 4-89.)

OPERATION

- When the lighting switch is placed in the TAIL or HEAD position, and the contacts of the tail lamp relay close, battery voltage is applied via the dedicated fuse ② to the glove box illumination lamp and the inspection lamp.
- When the glove box is opened, the glove box illumination lamp switch is switched ON and the glove box illumination lamp illuminates.
- When the engine hood is opened, the inspection lamp switch is switched ON and the inspection lamp illuminates.

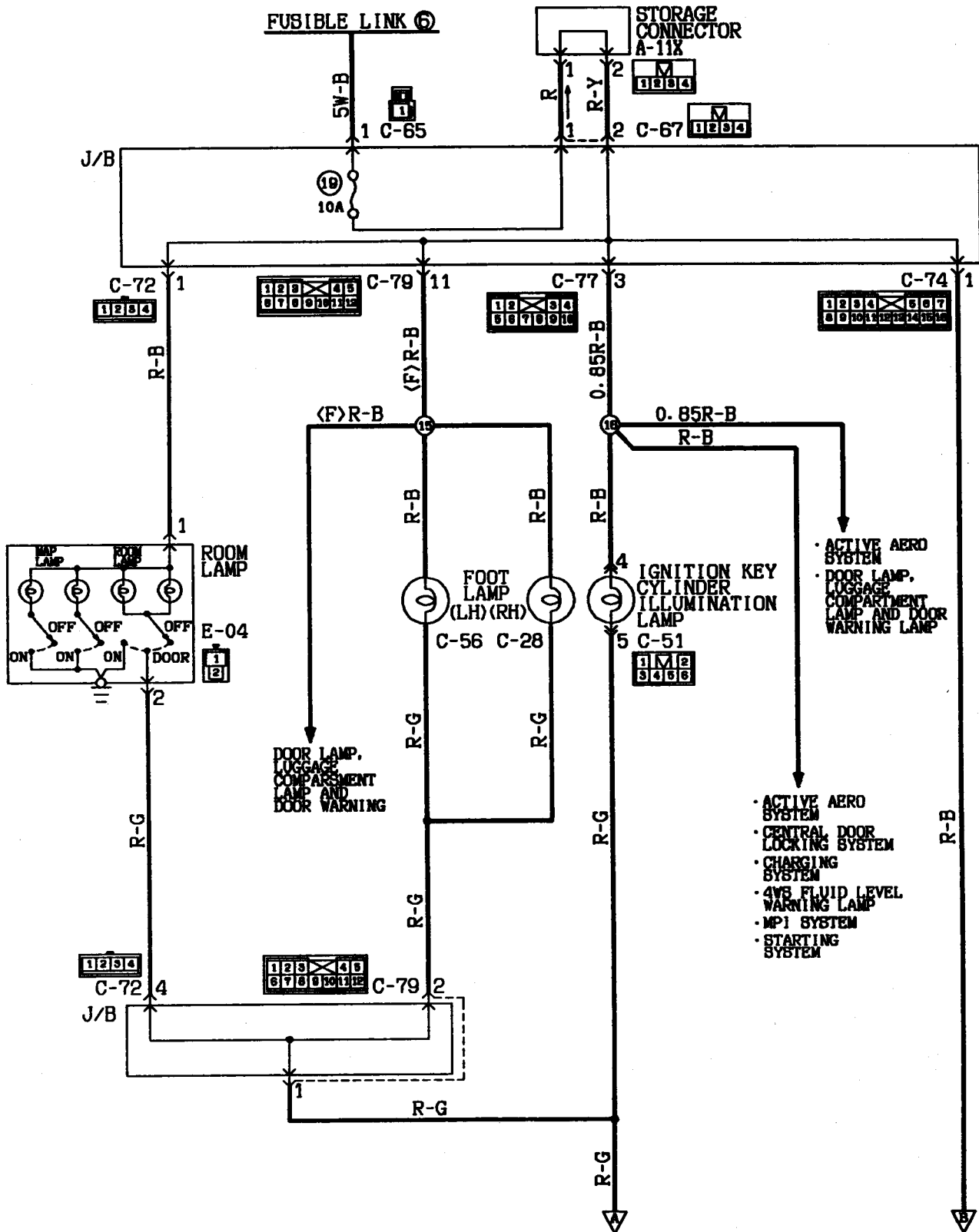
GLOVE BOX LAMP AND INSPECTION LAMP

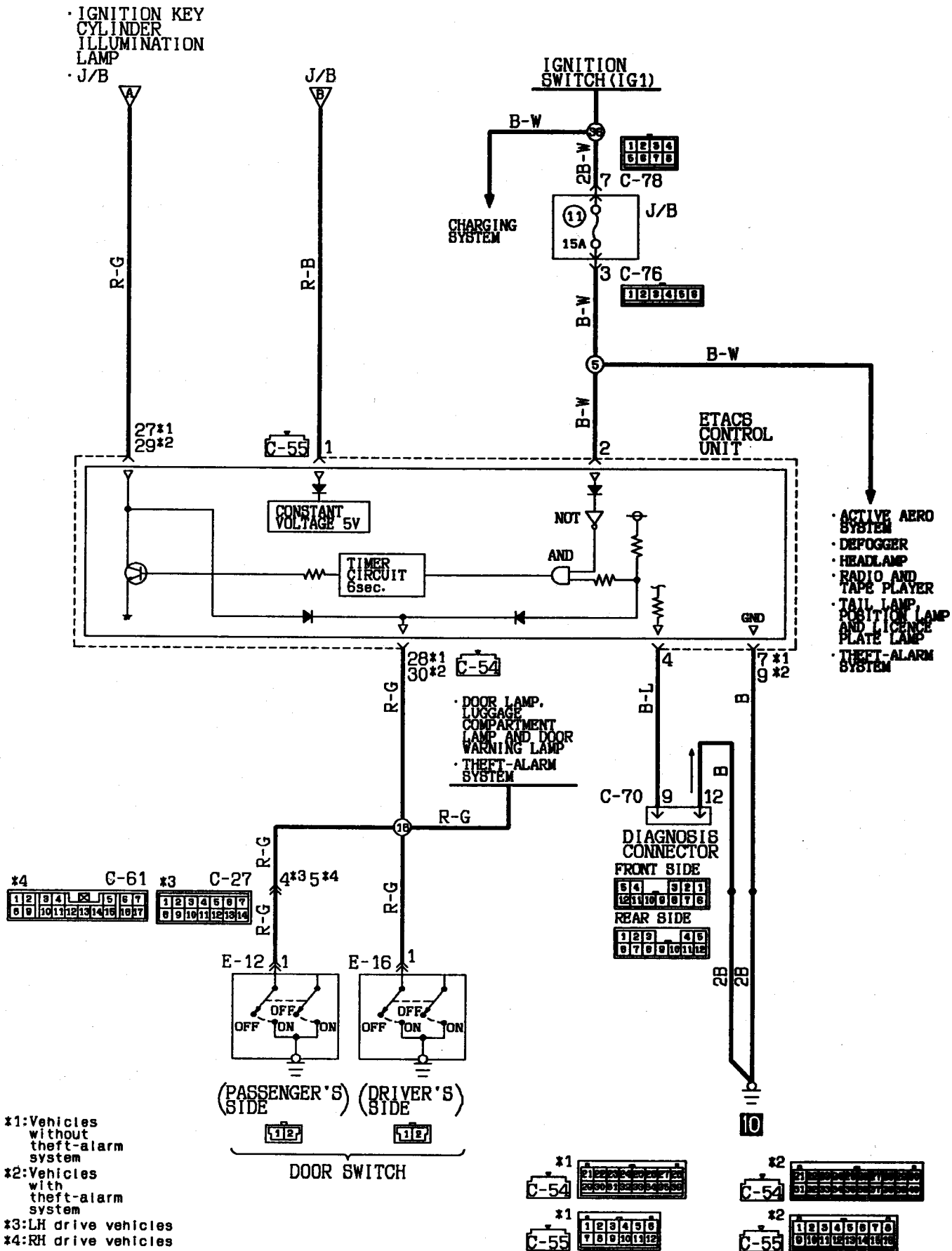


*1:LHD
*2:RHD

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

ROOM LAMP, FOOT LAMP AND IGNITION KEY CYLINDER ILLUMINATION LAMP





ROOM LAMP, FOOT LAMP AND IGNITION KEY CYLINDER ILLUMINATION LAMP
(See P. 4-90.)**OPERATION****<Room lamp>**

- Battery voltage is always applied to the room lamp. When the room lamp switch is turned to "ON", the room lamp will remain lit. After either door is opened if the room lamp switch is at "DOOR" position, the room lamp will come on.
- With the room lamp turned on (with the ignition switch in the OFF position and with the room lamp switch in the DOOR position), close all doors, and the timer circuit in the ETACS control unit will be activated to gradually vary the voltage for approx. 6 seconds owing to the duty control, and the voltage will be output to transistor Tr. Since the voltage applied to the room lamp gradually decreases, the room lamp will be dimmed.
- If the ignition switch is turned to "ON" while the room lamp is lit (while the timer is activated), the timer circuit will be opened to turn "off" transistor Tr. This will immediately turn off the room lamp without dimming.

<Foot lamps and ignition key illumination lamp>

- Battery voltage is always applied to the foot lamps and ignition key illumination lamp. With the ignition switch in the OFF position, open any door, and all lamps will come on.
- With all lamps turned on (with the ignition switch in the OFF position), close all doors, and the timer circuit inside the ETACS control unit will operate in the same manner as the room lamp to dim all lamps. When the ignition switch is placed in the ON position with all lamps turned on (with the timer in operation), the same operation as the room lamp will take place.

TROUBLESHOOTING HINTS

Phenomenon		Checking method
Room lamp does not come on when a door is opened with the room lamp switch in the DOOR position.	The foot lamps and ignition key cylinder illumination lamp don't illuminate, either.	<ul style="list-style-type: none"> • Check the door switch input signal. • Check the door switch.
	The foot lamps and ignition key cylinder illumination lamp illuminate.	<ul style="list-style-type: none"> • Check the room lamp switch. • Check the room lamp bulb.
Room lamp, foot lamps and ignition key illumination lamp go out at once when doors are closed.		<ul style="list-style-type: none"> • Check the door switch input signal.
Even if ignition switch is turned on while lamps are being dimmed, lamps do not go out at the same time.		<ul style="list-style-type: none"> • Check the ignition switch input signal.

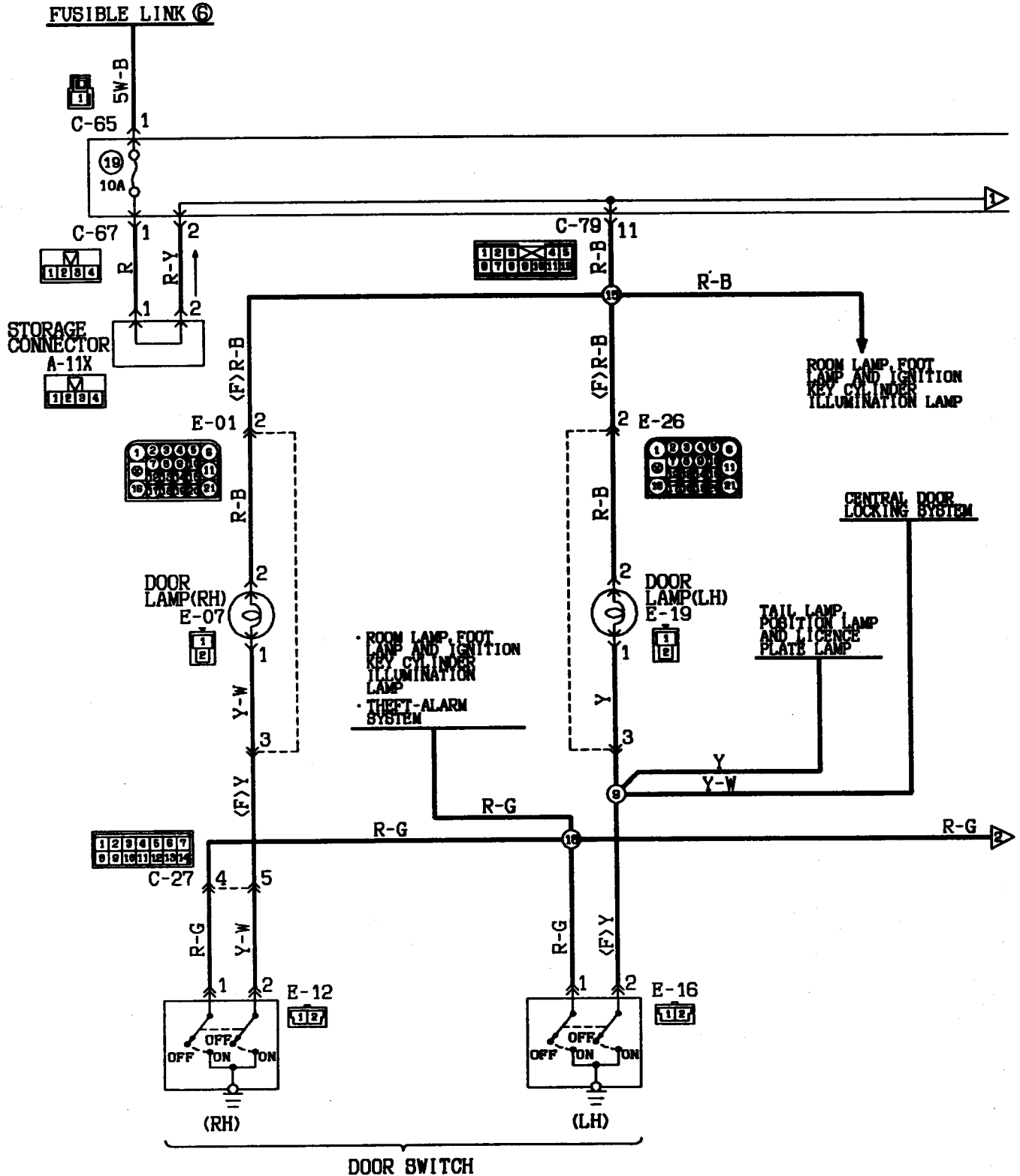
DOOR LAMP, LUGGAGE COMPARTMENT LAMP AND DOOR WARNING LAMP
(See P. 4-94, 96.)

OPERATION

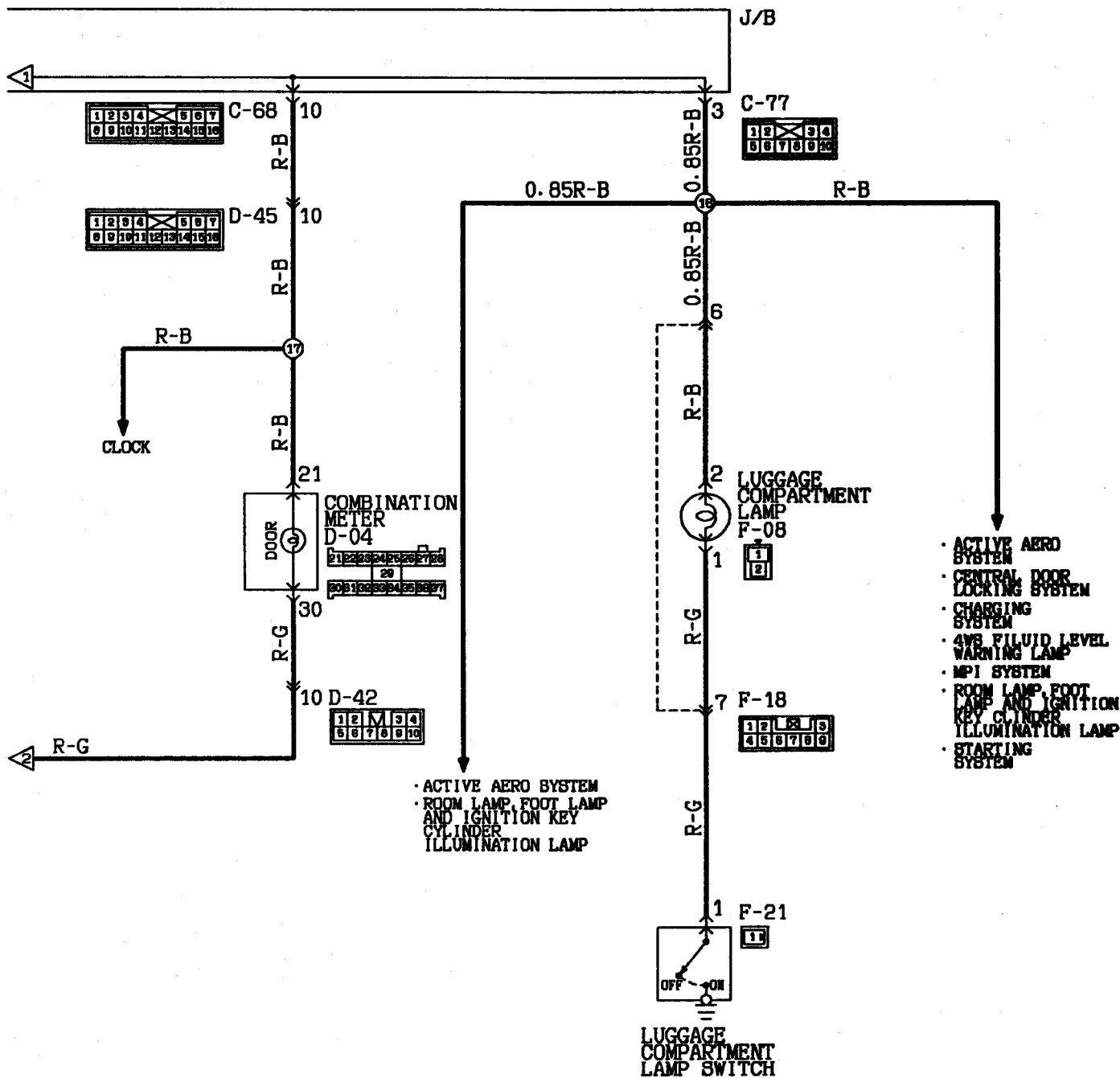
- Battery voltage is always applied (via sub-fusible link No. ⑥ and multipurpose fuse No. ⑱) to the luggage compartment lamp and door lamp.
- When the door is opened, the door switch is switched ON and the door lamp illuminates.
- When the tailgate is opened, the luggage compartment lamp switch is switched ON and the luggage compartment lamp illuminates.

DOOR LAMP, LUGGAGE COMPARTMENT LAMP AND DOOR WARNING LAMP

<L.H. drive vehicles>

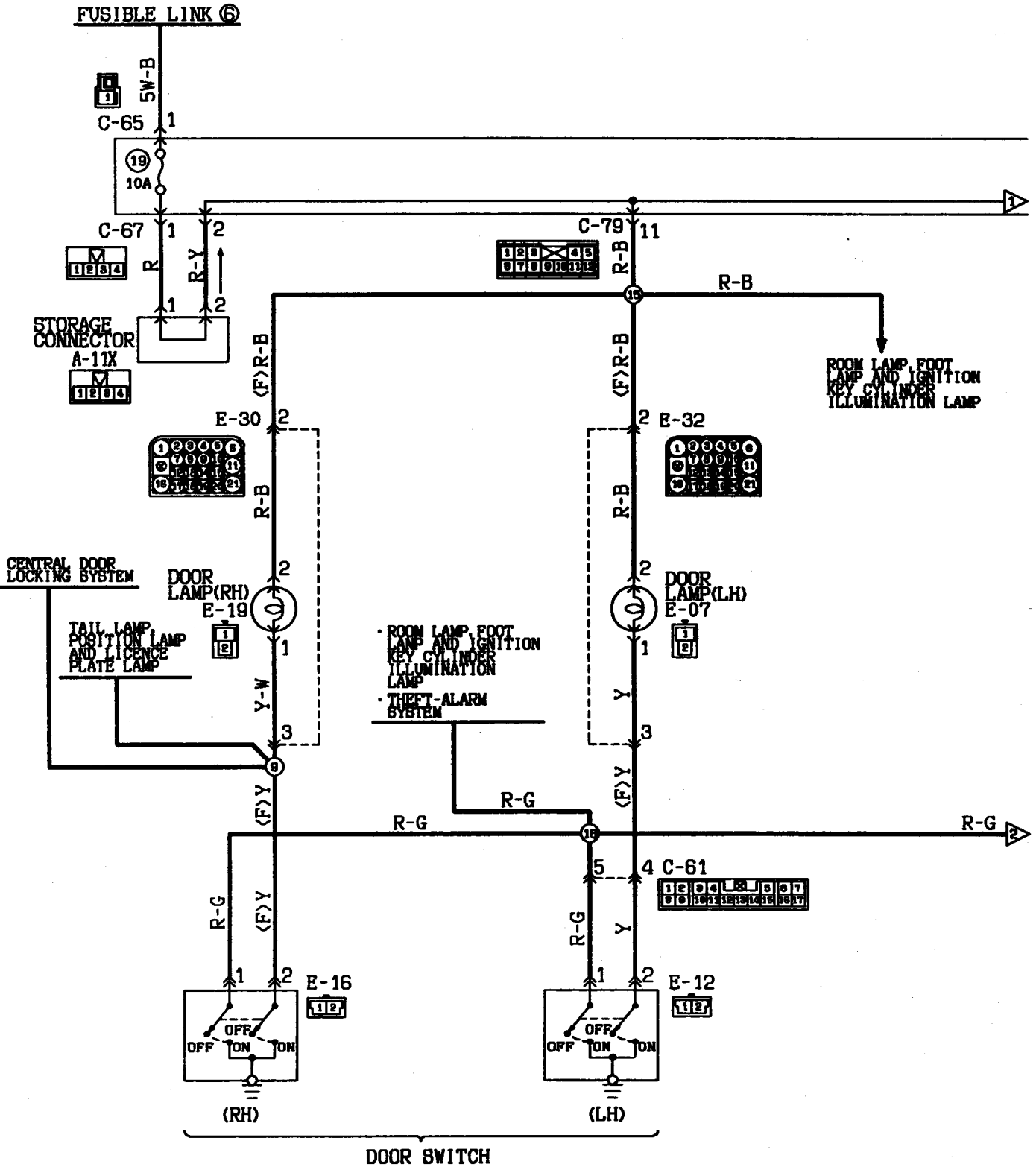


Wire colour code
 B:Black LG:Light green G:Green L:Blue Y:White Y:Yellow BB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



DOOR LAMP, LUGGAGE COMPARTMENT LAMP AND DOOR WARNING LAMP

<R. H. drive vehicles>



Wire colour code

B:Black LG:Light green

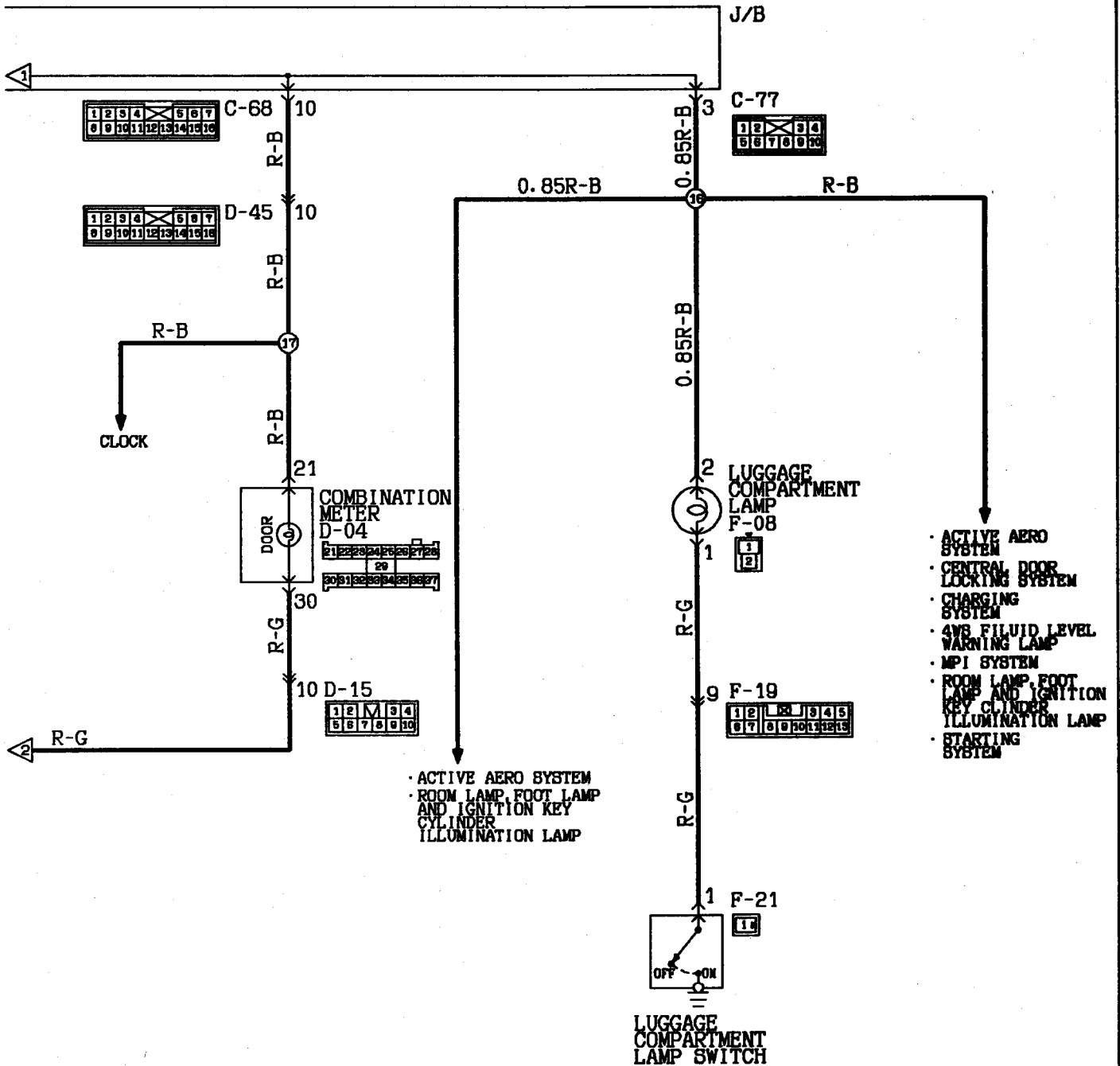
G:Green GR:Gray

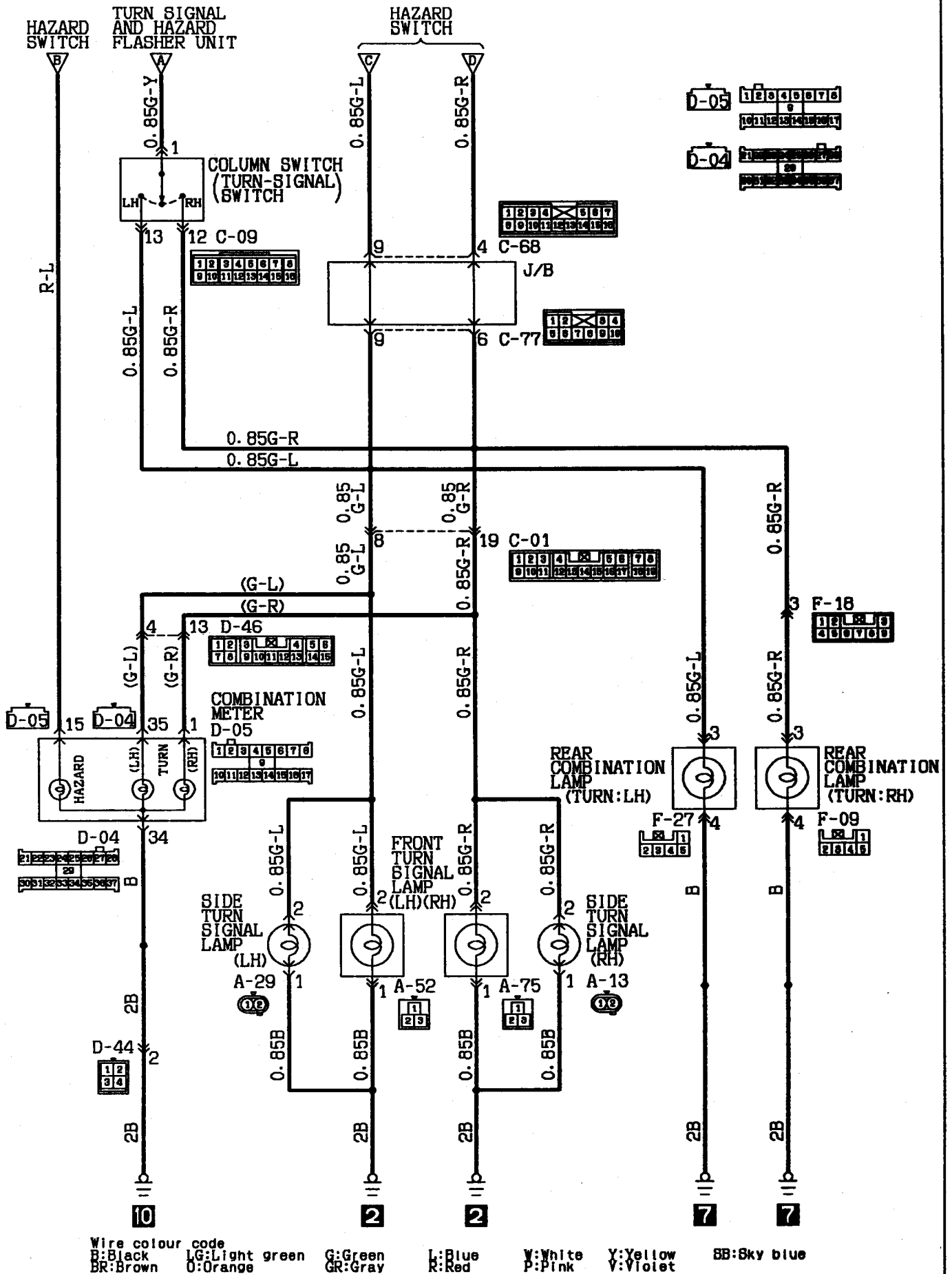
L:Blue R:Red

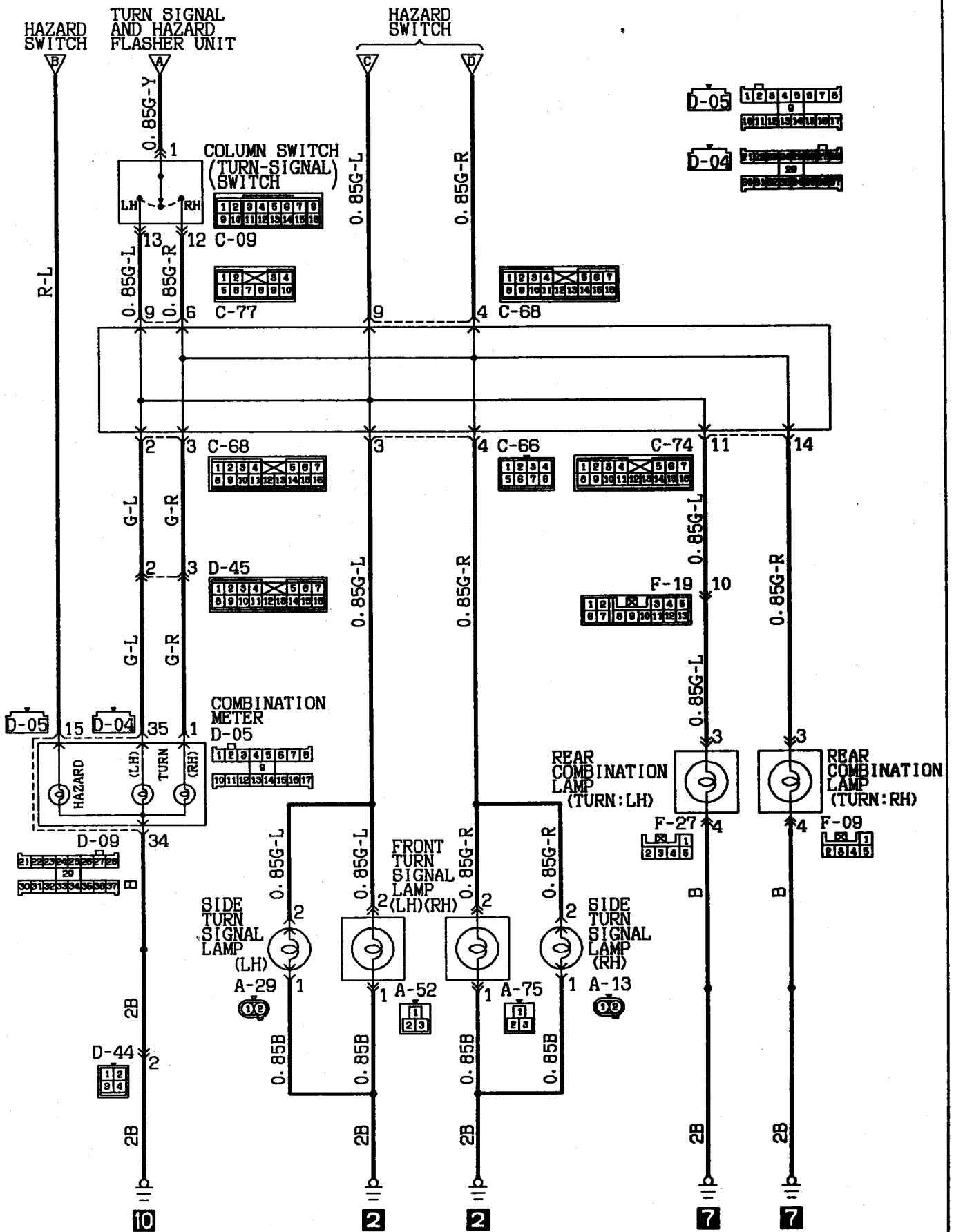
V:White P:Pink

Y:Yellow V:Violet

BB:Sky blue







Wire colour code
 B:Black LG:Light green G:Green L:Blue Y:White Y:Yellow BB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

TURN-SIGNAL LAMP AND HAZARD LAMP (See P. 4-98, 100.)**OPERATION****<Turn-signal lamp>****1. In normal operating condition**

- When the ignition switch is placed in the ON position, battery voltage is applied through the hazard switch to the turn-signal and hazard flasher unit.
- When the turn-signal switch is placed in the LH (or RH) position, Tr1 in the flasher unit turns ON, causing the relay contacts in the flasher unit to close. This results in the LH (or RH) turn-signal lamp and turn-signal indicator lamp lighting up.
- At the same time, the capacitor is charged through R2 up to the lower limit as set by COM3.
- As soon as the capacitor is fully charged, the output from COM3 is inverted, turning OFF Tr1. This opens the relay contacts and, as a result, the LH (or RH) turn-signal lamp and turn-signal indicator lamp go out.
- At the same time when Tr1 turns OFF, the capacitor starts discharging. As soon as the capacitor completes discharging, the COM3 output is inverted again causing Tr1 to turn ON. This results in the LH (or RH) turn-signal lamp and turn-signal indicator lamp coming on.
- These sequences of operation repeat, which results in the LH (or RH) turn-signal lamp and turn-signal indicator lamp flashing off and on.

2. When one bulb is burnt

- When either one of the turn-signal lamp bulbs goes out, it causes the resistance of the entire lamp circuit to increase, hence a smaller voltage drop at R1 in the flasher unit.
- This smaller voltage drop is sensed and the lower voltage limit set by COM3 is raised, thus shortening the time required by the capacitor before it is fully charged.
- As a result, the on-off cycle of Tr1 becomes shorter with the resultant greater number of times the lamp flashes on and off.

<Hazard lamp>

- When the hazard switch is placed in the ON position, the flasher unit relay contacts repeatedly close and open, which results in the RH and LH turn-signal lamps, turn-signal indicator lamps, and hazard warning indicator lamps flashing on and off at the same time.

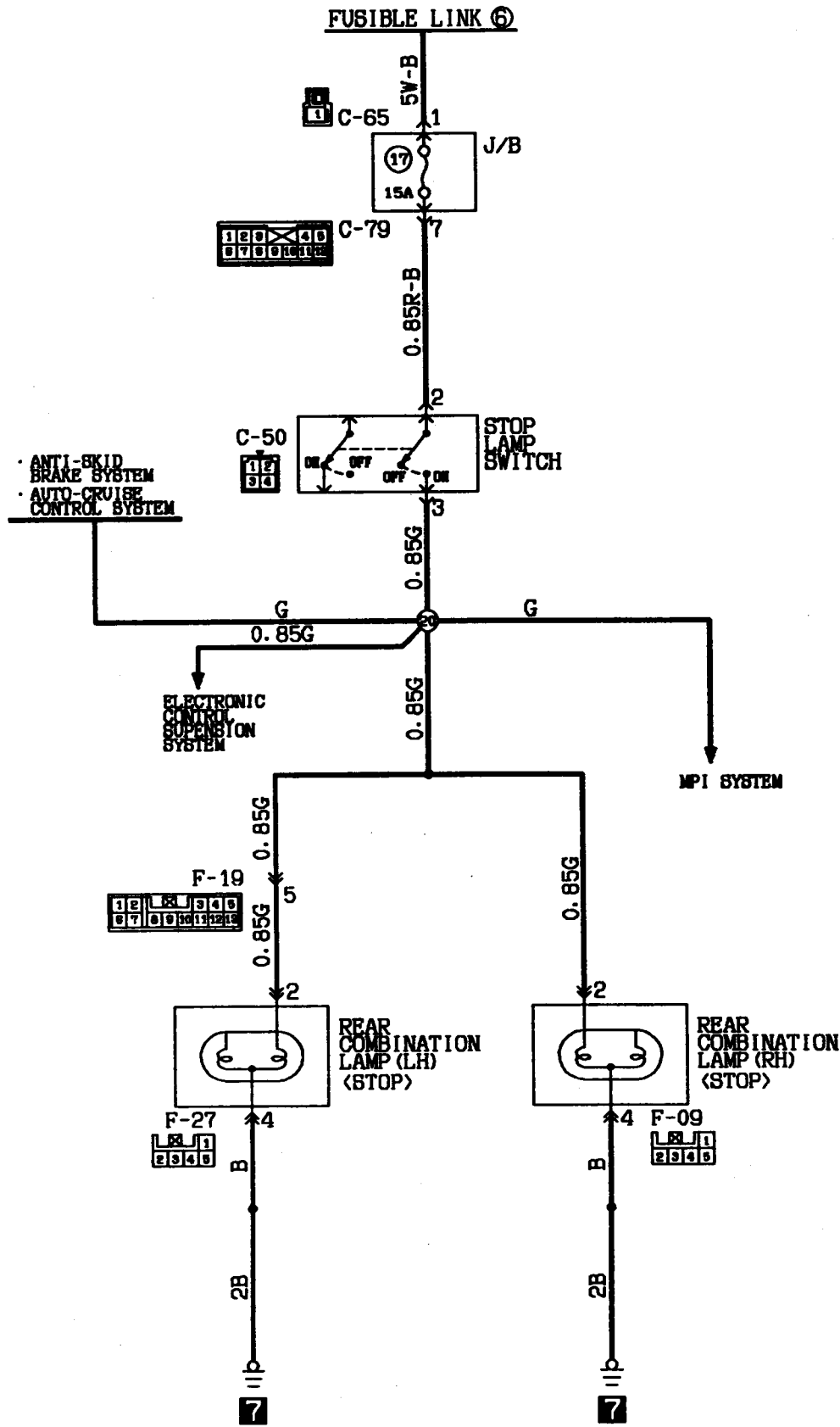
Remark

- The number of times the hazard lamps flash on and off does not change even when one bulb is out.

TROUBLESHOOTING HINTS

1. Neither the turn-signal lamps nor hazard lamps operate.
 - Check hazard switch contacts (on power source end).
 - Check flasher unit.
2. All LH or RH turn-signal lamps do not operate.
 - 1) Hazard lamp is fully operational.
 - Check turn-signal switch.
3. Flashing cycle of turn signal lamps is shorter.
 - Check the lamp bulb.
4. Hazard lamp does not operate.
 - 1) Turn-signal lamps are operational.
 - Check hazard switch contacts (on hazard lamp end).

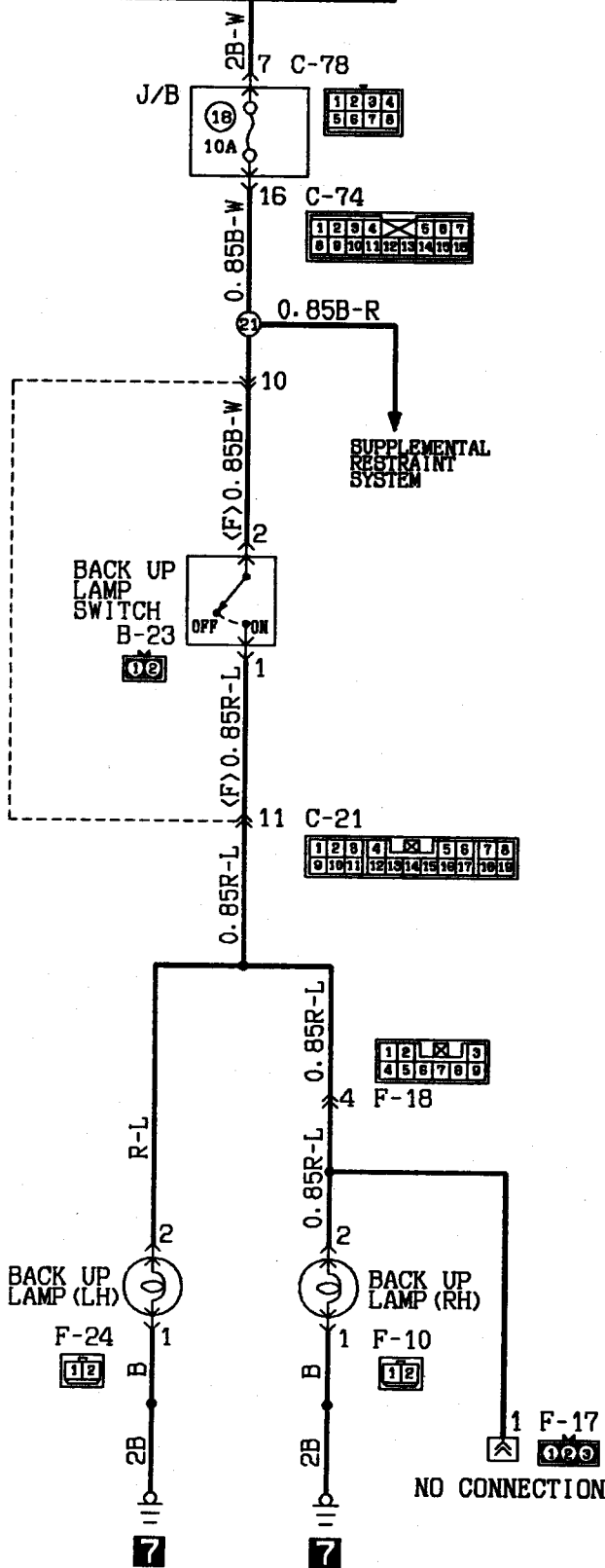
STOP LAMP
(R.H. drive vehicles)



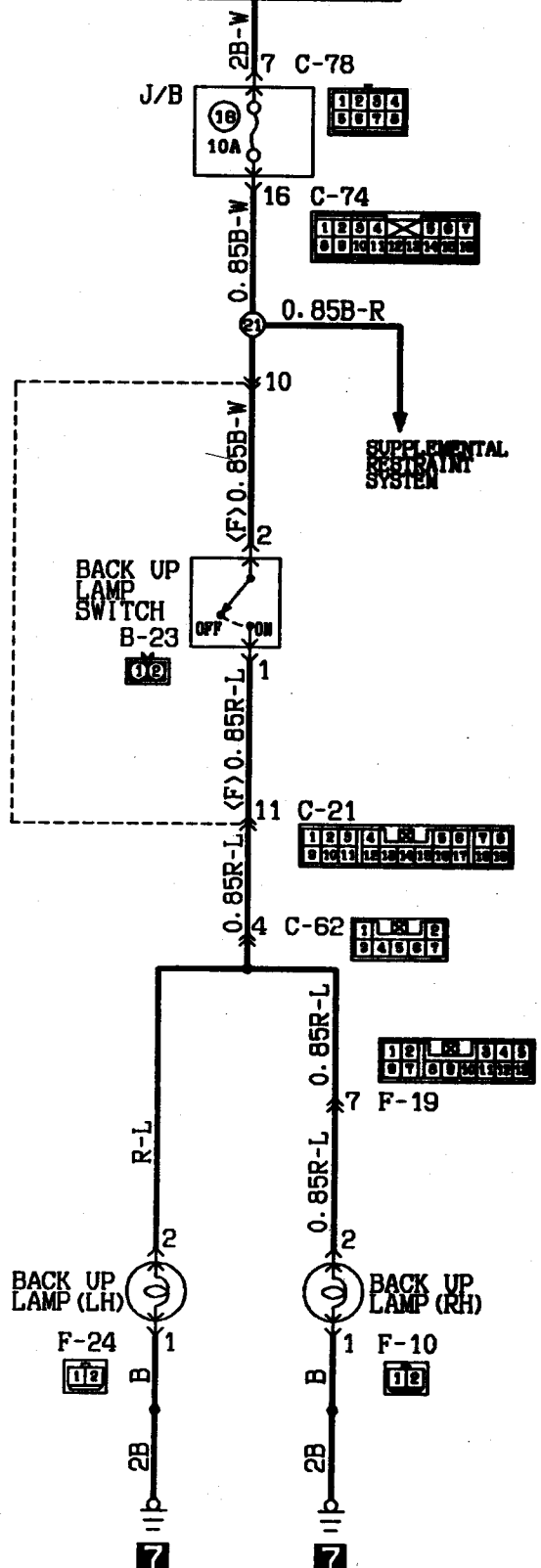
Wire colour code
 B:Black LG:Light green G:Green L:Blue V:White Y:Yellow BB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

BACK UP LAMP

<L.H. drive vehicles>
IGNITION SWITCH (IG1)



<R.H. drive vehicles>
IGNITION SWITCH (IG1)



Wire colour code

B:Black LG:Light green G:Green L:Blue W:White Y:Yellow BB:Sky blue
BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

BACK UP LAMP (See P. 4-105.)**OPERATION**

- When, with the ignition switch at the "ON" position, the shift lever is moved to the "R" position, the back up lamp switch is switched ON and the back up lamp illuminates.

HORN (See P. 4-107, 108.)**OPERATION**

- The horn switch always receives battery voltage via the dedicated fuse ④ and the coil of the horn relay.
- When the horn switch is set to ON, the contacts of the horn relay close. Then current flows through the dedicated fuse ④ to the contacts of the horn relay, the horn and earth, causing the horn to sound.

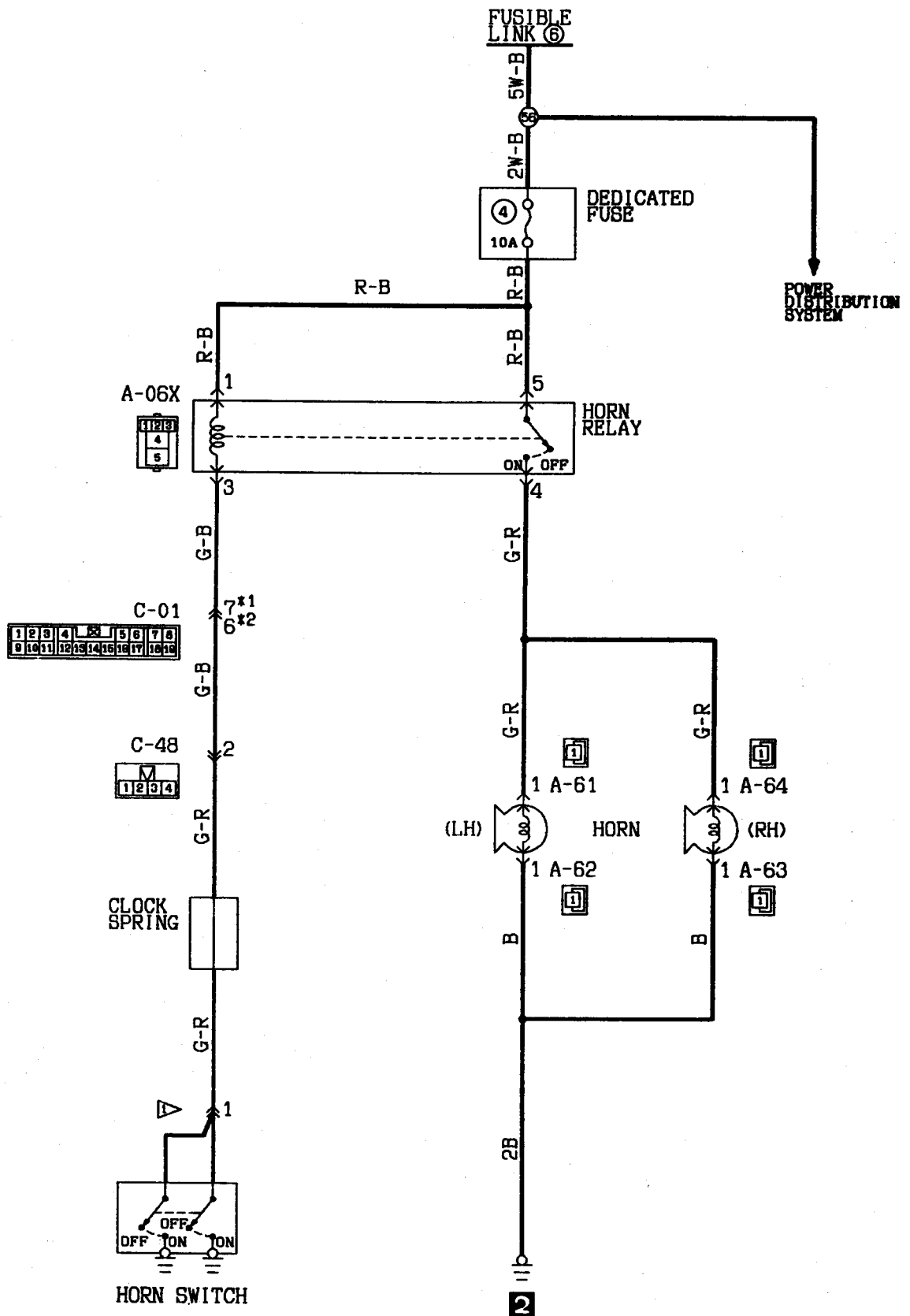
TROUBLESHOOTING HINTS

1. One of the horn does not sound.
 - Check the horn.
2. Horns do not sound.
 - Check the horn switch.
 - Check the dedicated fuse ④.

NOTE

For vehicles equipped with the theft-alarm system, refer to GROUP 54 Chassis Electrical of the separate WORKSHOP MANUAL (Pub. No. PWUE9119).

HORN
 (Vehicles without theft-alarm system)



#1:LHD
 #2:RHD

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

METER AND GAUGE (See P. 4-110.)**OPERATION****<Fuel gauge>**

- When the ignition key is at the "ON" position, the fuel gauge is activated.
- When there is much fuel, the unit's resistance is small and the current flowing in the circuit is great, so the gauge's indicator indicates in the "F" area.
- When there is little fuel, the unit's resistance is high and the current flowing in the circuit is small, so the gauge's indicator indicates in the "E" area.

<Engine coolant temperature gauge>

- When the ignition key is at the "ON" position, the engine coolant temperature gauge is activated.
- When the engine coolant temperature is high, the unit's resistance is low and there is a great flow of current in the circuit, so the gauge's indicator indicates in the "H" area.
- When the engine coolant temperature is low, the unit's resistance is high and there is a small flow of current in the circuit, so the gauge's indicator indicates in the "C" area.

<Speed sensor>

- Pulses are produced in accordance with the vehicle speed, and vehicle-speed signals are input to systems (the MPI system, etc.) that regulate according to the vehicle speed.

<Oil pressure gauge>

- When the ignition key is at the "ON" position, the oil pressure gauge is activated.
- When oil pressure is high, the internal contacts of the gauge unit are kept closed for a longer period of time. This causes more current to flow in the circuit, and the gauge pointer swings to the high pressure side.
- When oil pressure is low, the internal contacts of the gauge unit open in a shorter period of time. Therefore, there is less current flowing in the circuit and the gauge pointer swings to the low pressure side.

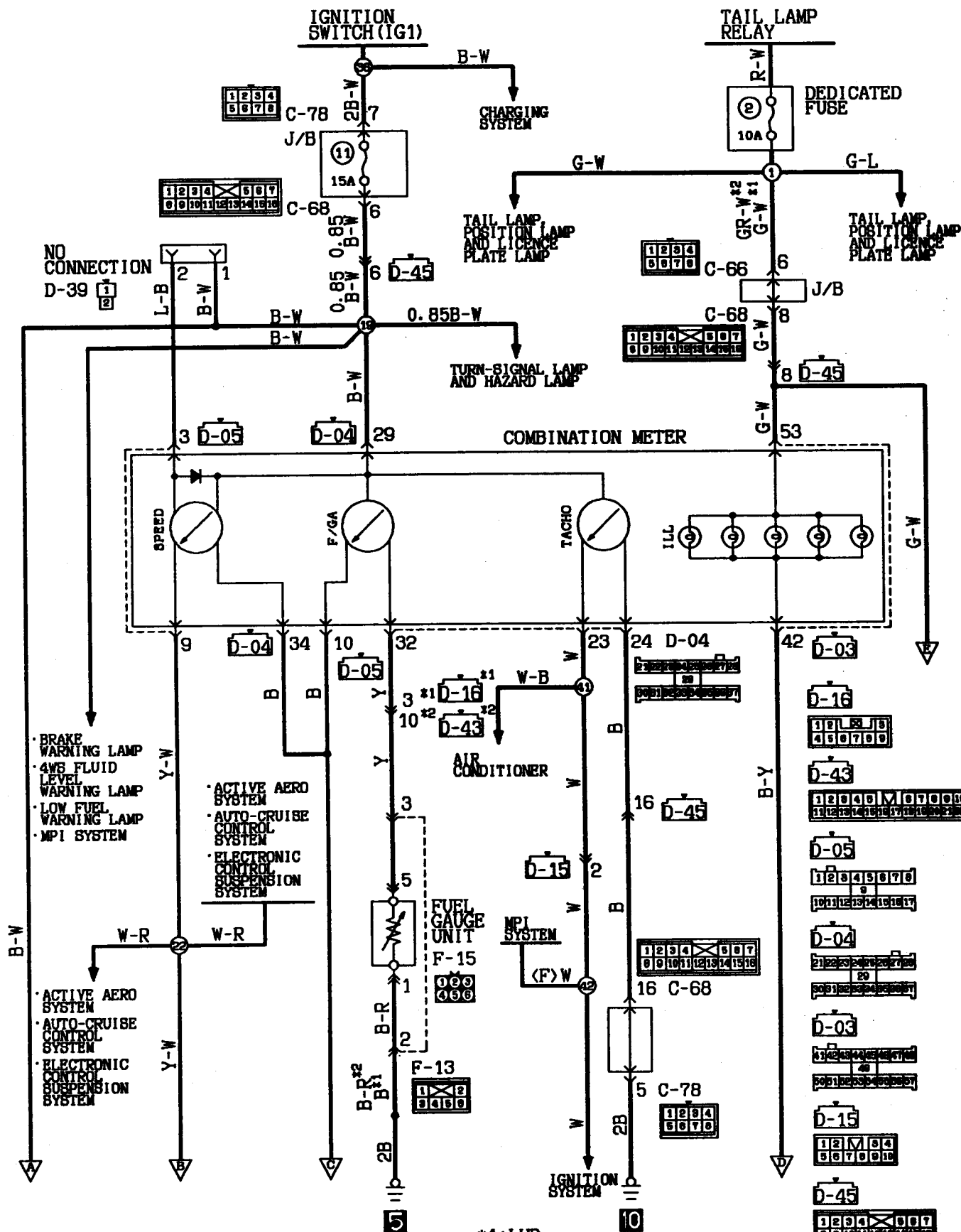
<Pressure gauge>

- When the ignition key is set to the "ON" position, the gauge indicator will be at "0".
- When the engine is started, the indicator will move from "0" to the minus (—) side, and then, as the boost level increases, it will move to the plus (+) side.

TROUBLESHOOTING HINTS

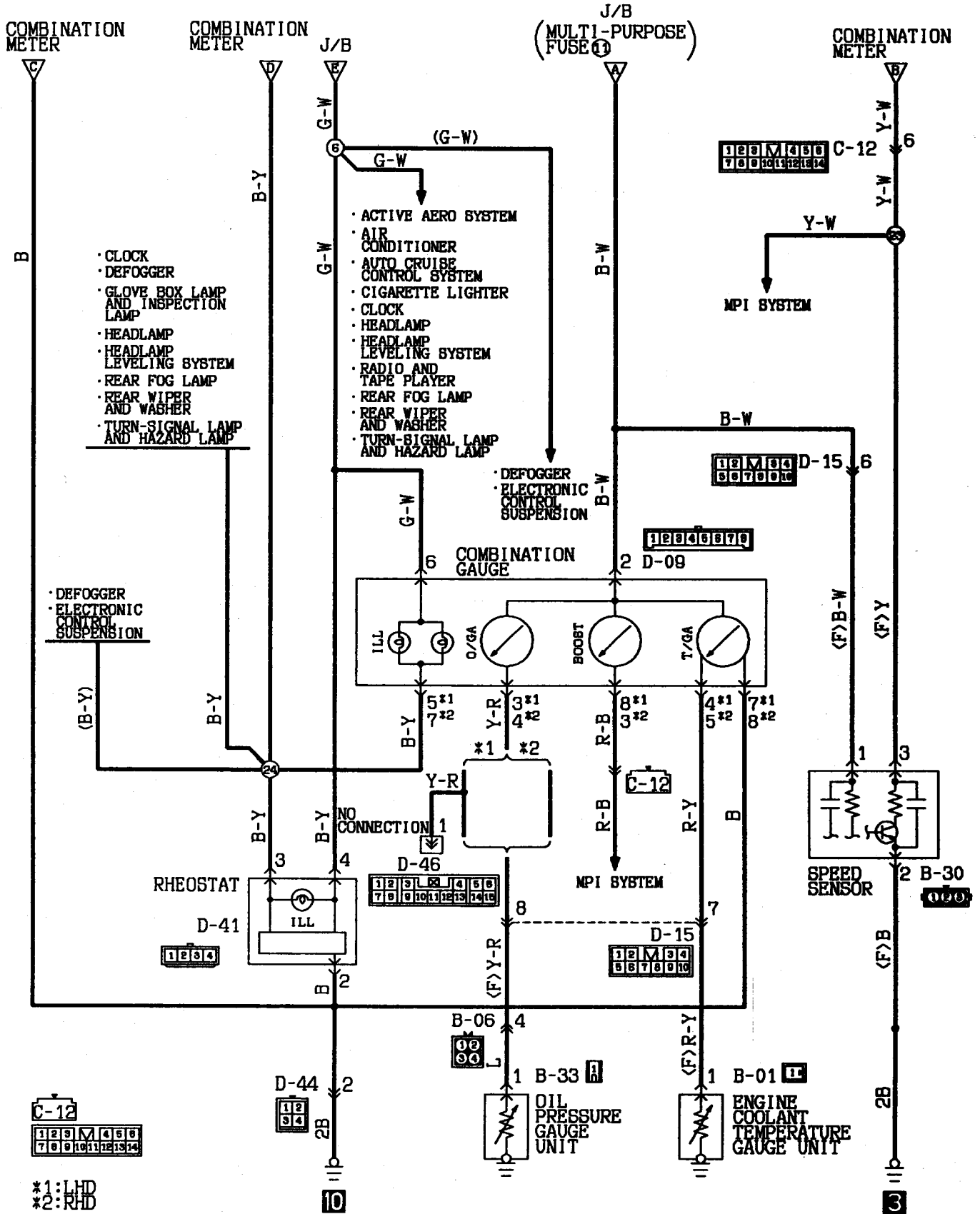
1. The fuel gauge doesn't function, or shows the incorrect indication.
 - (1) Disconnect the connector of the fuel pump and gauge unit assembly; the "F" side is indicated when terminal ⑤ is then earthed.
 - Check the fuel gauge.
2. The engine coolant temperature gauge doesn't function, or shows the incorrect indication.
 - (1) The "H" side is indicated when the connector of the engine coolant temperature gauge unit is disconnected and then earthed.
 - Check the engine coolant temperature gauge unit.
3. Systems dependent upon control according to the vehicle speed do not function correctly.
 - Check the speed sensor.
4. The oil pressure gauge doesn't function, or shows the incorrect indication.
 - (1) The "H" side is indicated when the connector of the oil pressure gauge unit is disconnected and then earthed.
 - Check the oil pressure gauge unit.
5. The meter illumination lamp does not illuminate.
 - (1) The tail lamps illuminate.
 - Check the rheostat.

METER AND GAUGE



KX35-AC-R1001-EC

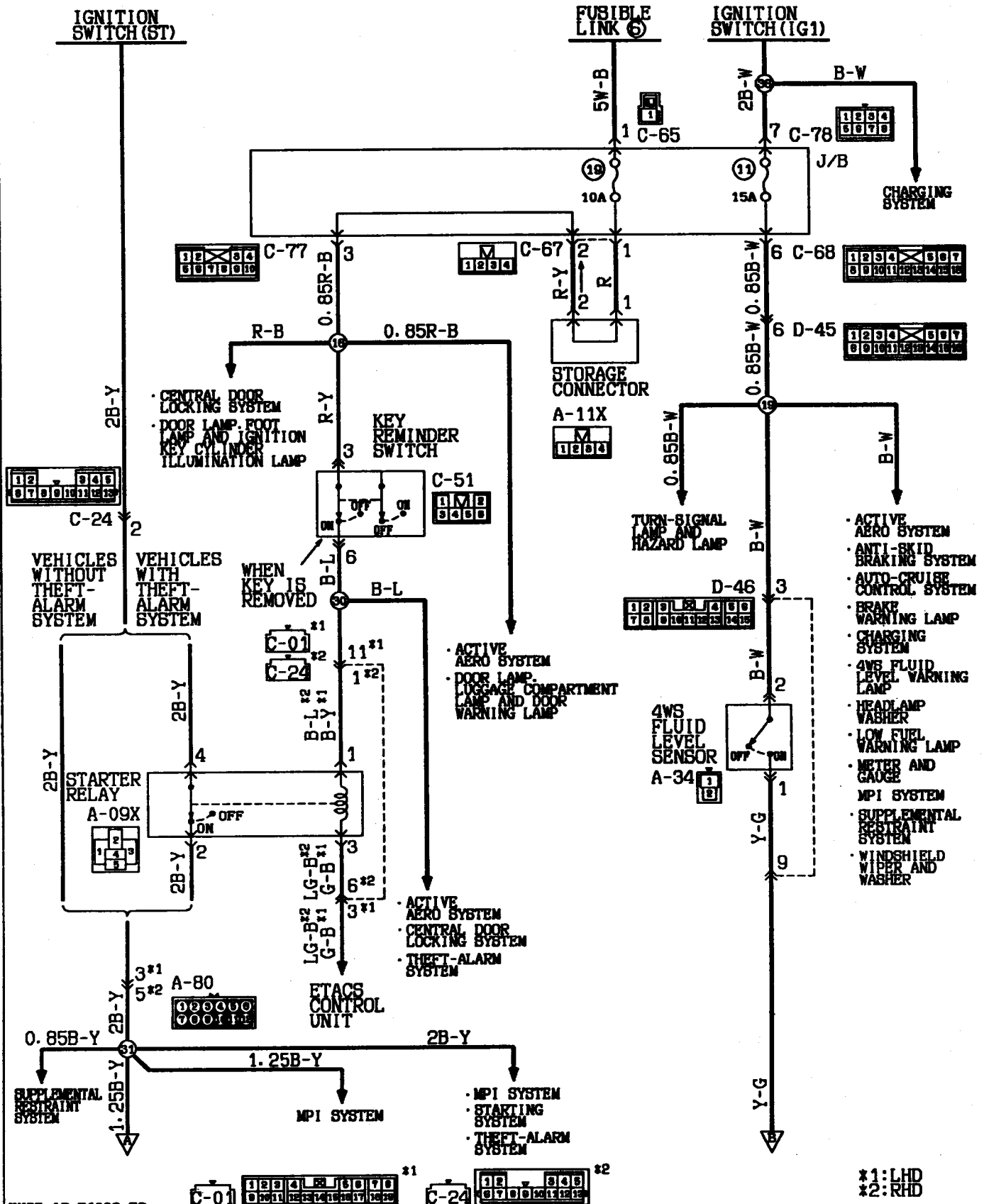
*1: LHD
*2: RHD



*1: LHD
*2: RHD

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

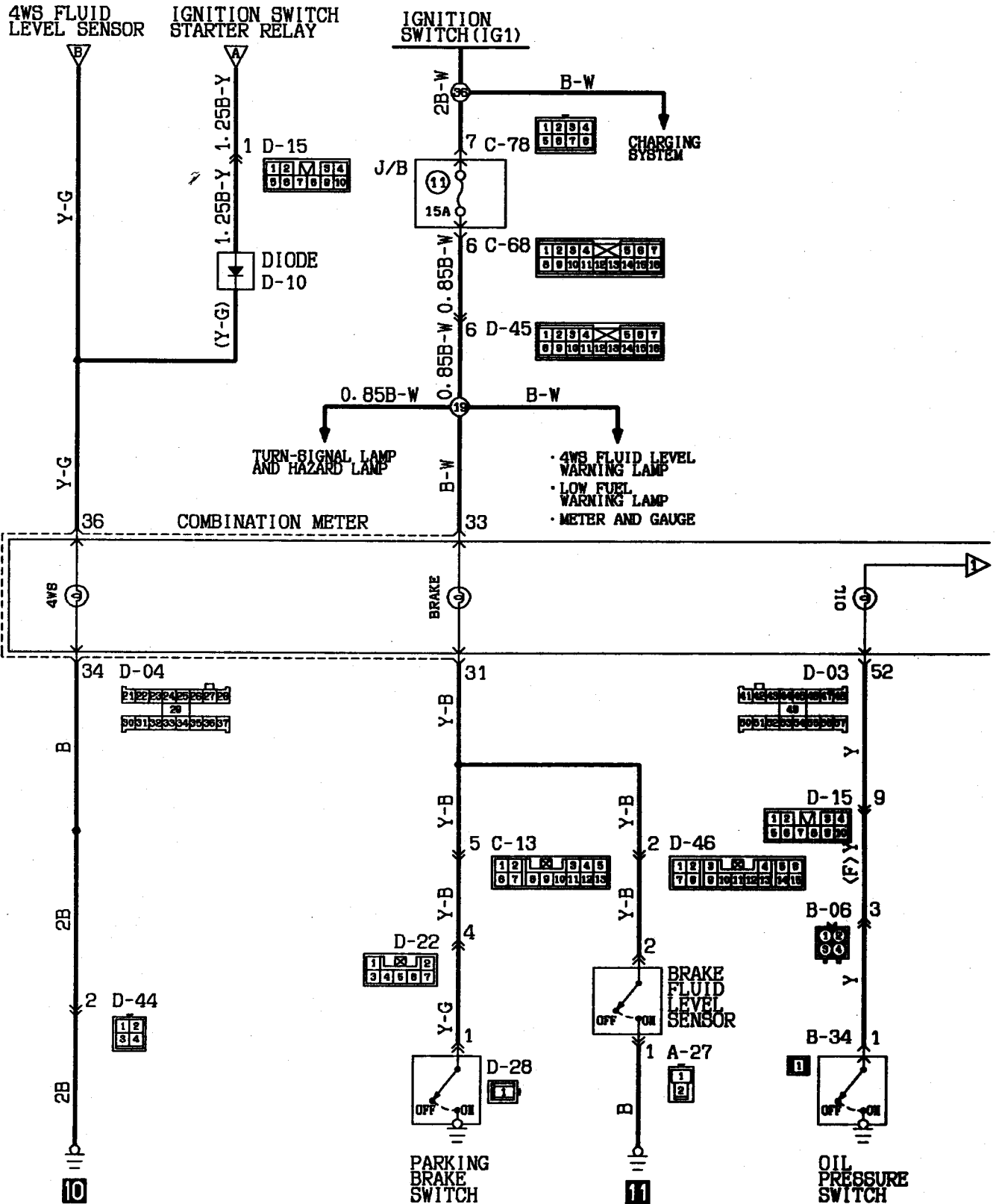
4WS FLUID LEVEL WARNING LAMP



KX35-AC-R1002-EC

BRAKE WARNING LAMP

OIL PRESSURE WARNING LAMP



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

4WS FLUID LEVEL WARNING LAMP, BRAKE WARNING LAMP, OIL PRESSURE WARNING LAMP, LOW FUEL WARNING LAMP, LOW ENGINE OIL LEVEL WARNING LAMP (See P. 4-112, 113, 114.)

OPERATION

<4WS fluid level warning lamp>

- When, with the ignition switch at the ON position, the amount of 4WS fluid becomes less than the specified amount, the 4WS fluid level sensor is switched ON and the warning lamp illuminates.

<Brake warning lamp>

- When the brake fluid level goes down below a predetermined level or parking brake lever is pulled, with the ignition switch in the ON position, the brake fluid level sensor is activated or the parking brake switch is turned ON, causing the brake warning lamp to light up.

<Oil pressure warning lamp>

- When the lubrication system fails after engine starting, resulting in the oil pressure failing to build up, the oil pressure switch turns ON causing the oil pressure warning lamp to light up.

<Low fuel warning lamp>

- When the fuel level goes down causing the level sensor to be exposed, with the ignition switch in the ON position, the resistance of level sensor becomes small. When this resistance goes down below the predetermined level, the low fuel warning lamp lights up to warn the driver that the amount of fuel still available for use is small.

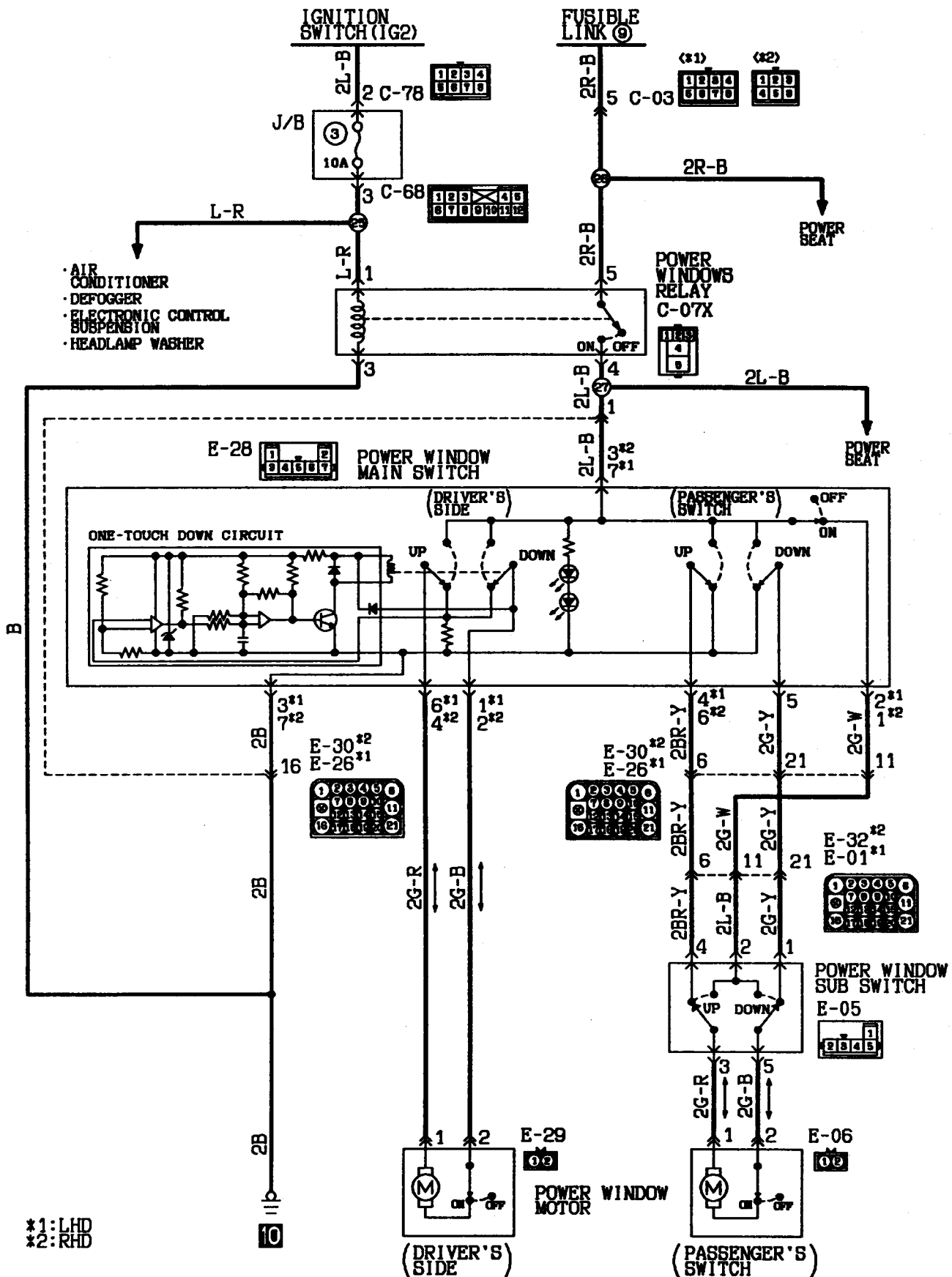
<Low engine oil warning lamp>

- When the ignition switch is turned to the "ON" position (in the state where the engine is stopped), electric current will flow to terminal "L" of the alternator through the multi-purpose fuse No. ①, low engine oil warning lamp and engine oil level relay and the low engine oil warning lamp will also light up.
- When the engine starts, the charging voltage will be applied to the terminal "L" of the alternator. Therefore, the low engine oil warning lamp will go out.
- When the engine oil temperature rises to approx. 55°C (131°F), the engine oil level sensor (TEMP) provided in the oil pan will be turned off.
- When the engine oil amount in the oil pan drops below the set level in this state, the engine oil level sensor (LEVEL) will be turned off to apply the voltage to the delay circuit.
- If the "OFF" state continues for approx. 20 seconds or more, the power transistor will be turned on to light the low engine oil warning lamp to indicated a shortage of engine oil.

Remark

The delay circuit is provided to prevent the low engine oil warning lamp from going on even if the engine oil level sensor is temporarily turned off due to cornering or other running conditions of the vehicle.

POWER WINDOW



*1: LHD
*2: RHD

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

POWER WINDOW (See P. 4-116.)**OPERATION**

- When the power window (main or sub) switch is depressed (UP or DOWN) with the ignition switch in the ON position, current flows through sub-fusible link No. ⑨ to the power window motor. This energizes the power window motor causing the door window glass to open or close.
- When the DOWN side the power window main switch (driver's seat side switch) is depressed all the way, it is locked in the depressed position and the power window motor is operated until the door glass is fully opened.
- When the power window lock switch is placed in the LOCK (OFF) position, operating a switch other than the ones for the driver's and front passenger's side window (both main and sub) does not cause the power window motor to be operated.
- The power window motor is provide with a circuit breaker that protects the motor from damage caused by overcurrent.

Reference: Circuit breaker characteristics Restricts the motor at room temperature [20 to 25°C (68 to 77°F)];

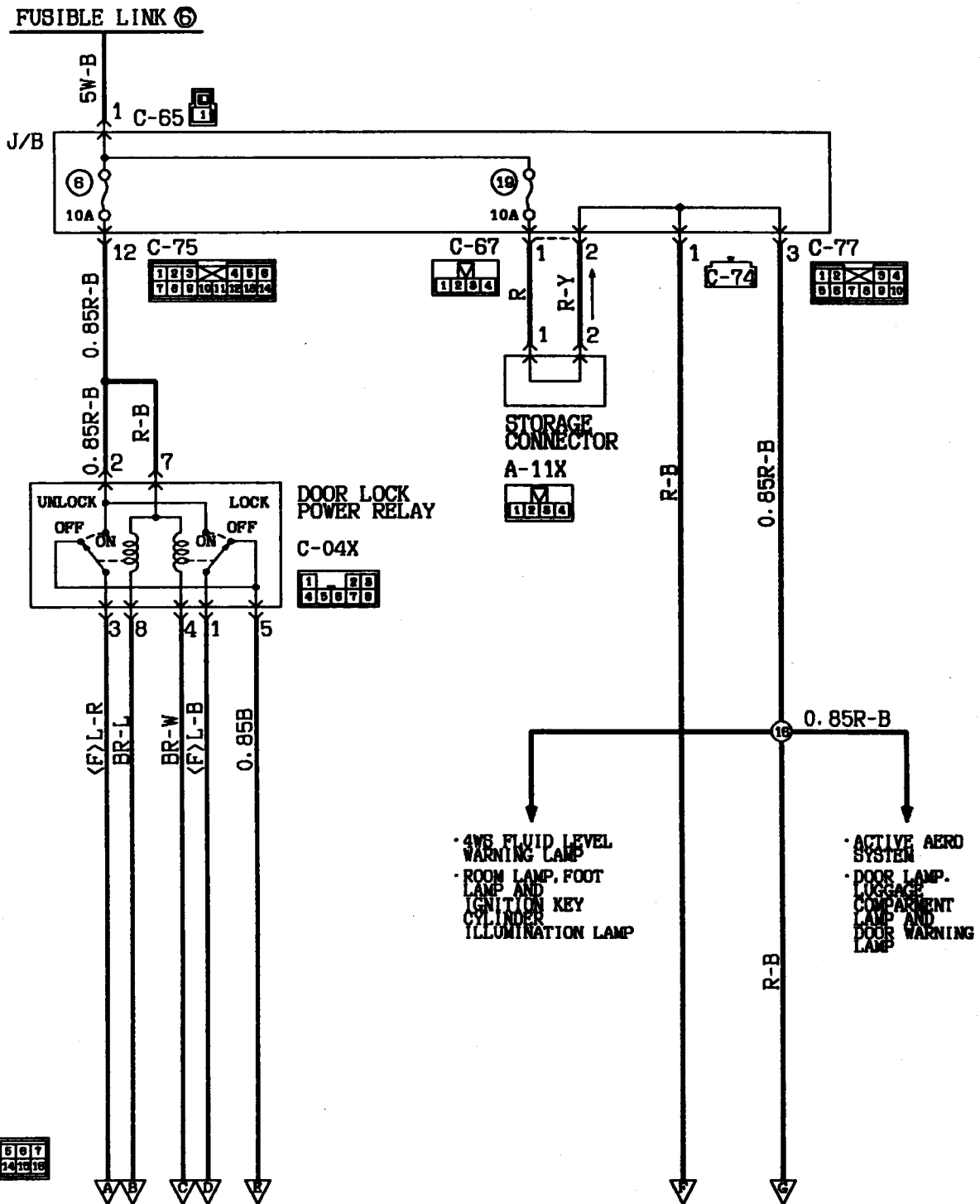
Opens following 4-to-40sec. initial energization time;

Resets within 60 seconds if left open thereafter.

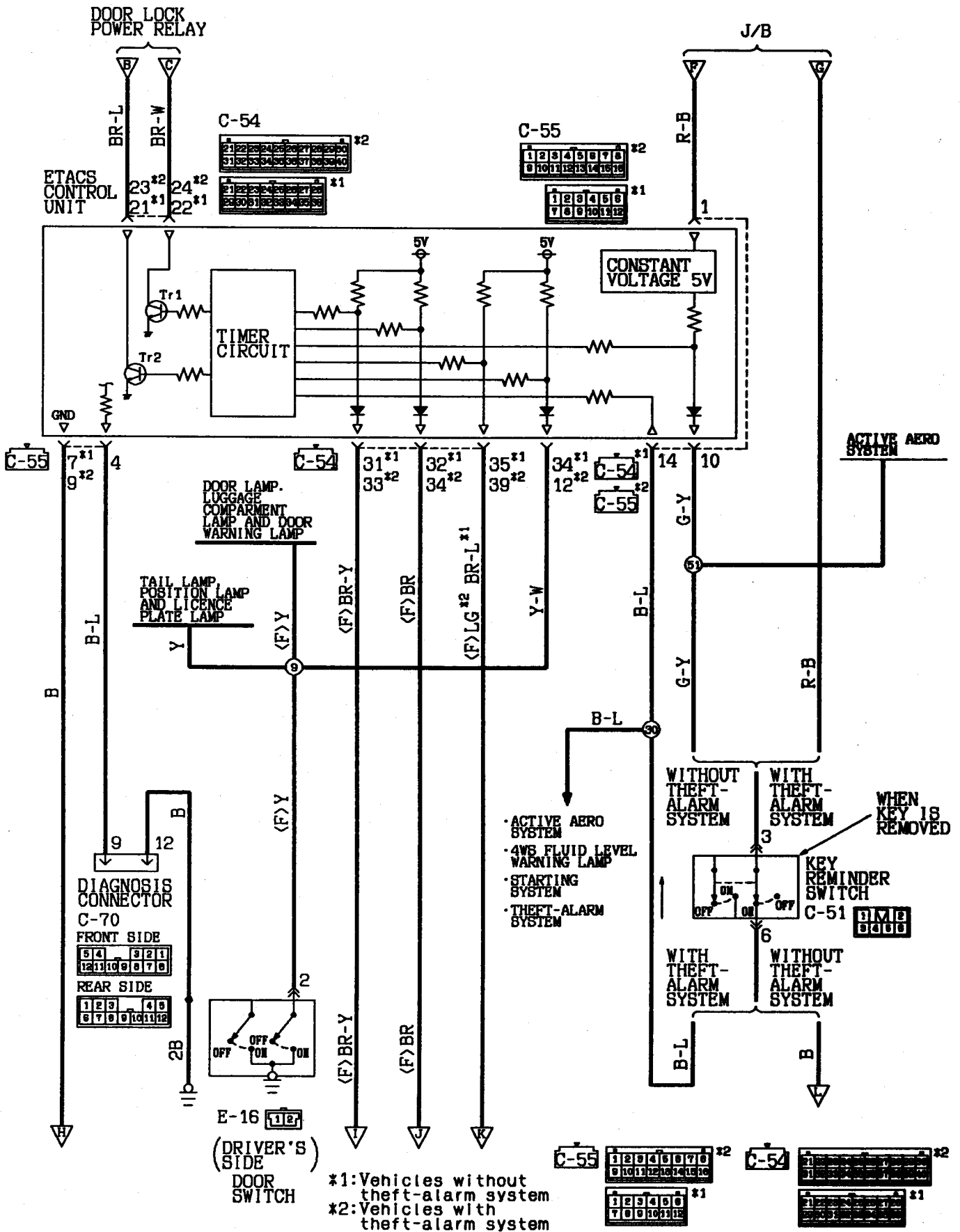
TROUBLESHOOTING HINTS

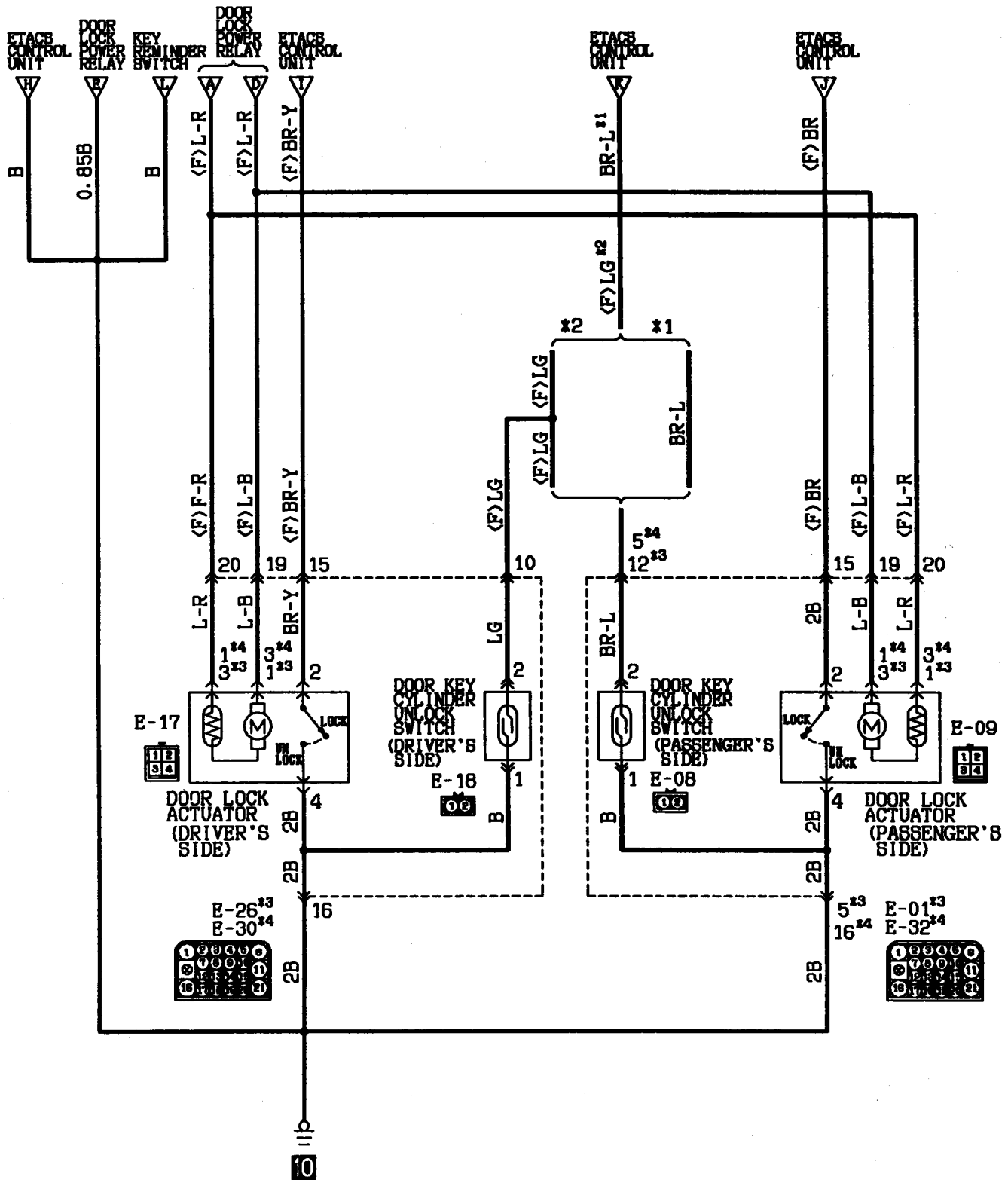
1. All door glasses cannot be opened or closed.
 - Check the fusible link No. ⑨.
 - Check the multi-purpose fuse No. ③.
 - Check the power window relay.
 - Check the power window main switch.
2. Any door glass cannot be opened or closed.
 - (1) Neither power window main nor sub switch is activated.
 - Check the power window main switch.
 - Check the defective power window motor.
 - (2) Either power window main or sub switch is inoperative.
 - Check the inoperative power window switch.
3. One-touch switch function is not operational.
 - Replace the power window main switch.

CENTRAL DOOR LOCKING SYSTEM



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





- *1: Vehicles without theft-alarm system
- *2: Vehicles with theft-alarm system
- *3: LHD
- *4: RHD

CENTRAL DOOR LOCKING SYSTEM (See P. 4-118.)

OPERATION

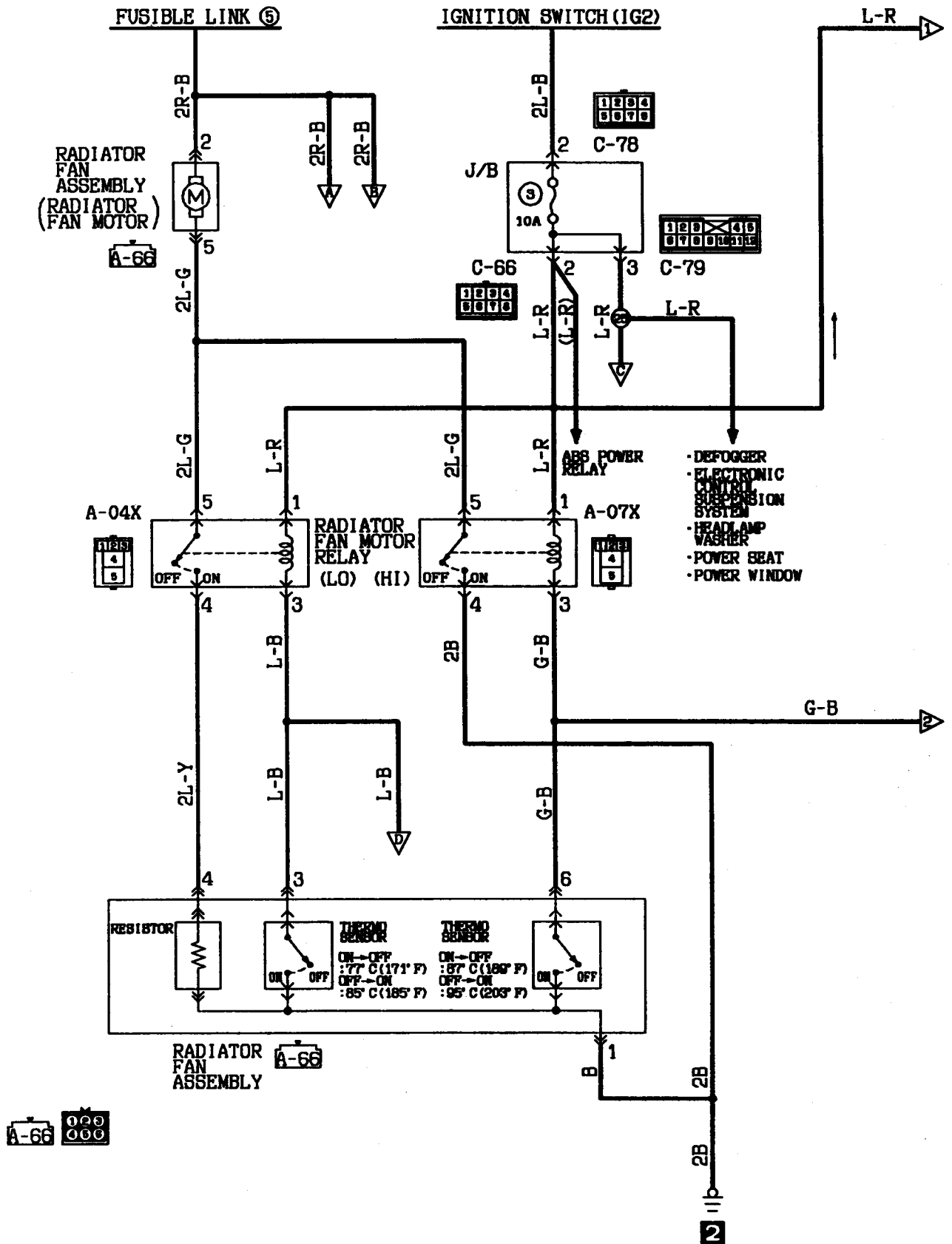
- When the driver's side inside lock knob is set to the "LOCK" (or "UNLOCK") position, the switch inside the driver's side door lock actuator turns OFF (or ON), and the timer function of the ETACS control unit causes transistor Tr1 (or Tr2) to turn ON for 0.5 seconds. This causes the "LOCK" (or "UNLOCK") side of the door lock relay to turn ON, thereby operating the passenger's side door lock actuator.
- When the passenger's side door is locked (or unlocked) by key operation, the door key cylinder unlock switch turns ON and the switch inside the passenger's side door lock actuator turns OFF (or ON), and the timer function of the ETACS control unit causes transistor Tr1 (or Tr2) to turn ON for 0.5 seconds. This causes the "LOCK" (or "UNLOCK") side of the door lock relay to turn ON, thereby operating the driver's side door lock actuator. The driver's side door lock actuator cannot be operated by operating the passenger's side inside lock knob.
- If the driver's side door is opened and the inside lock knob is set to the "LOCK" position while the key is left inserted in the ignition switch, the timer function of the ETACS unit causes transistor Tr2 to turn ON. This causes the "UNLOCK" side of the door lock relay to turn ON, thereby unlocking all doors.

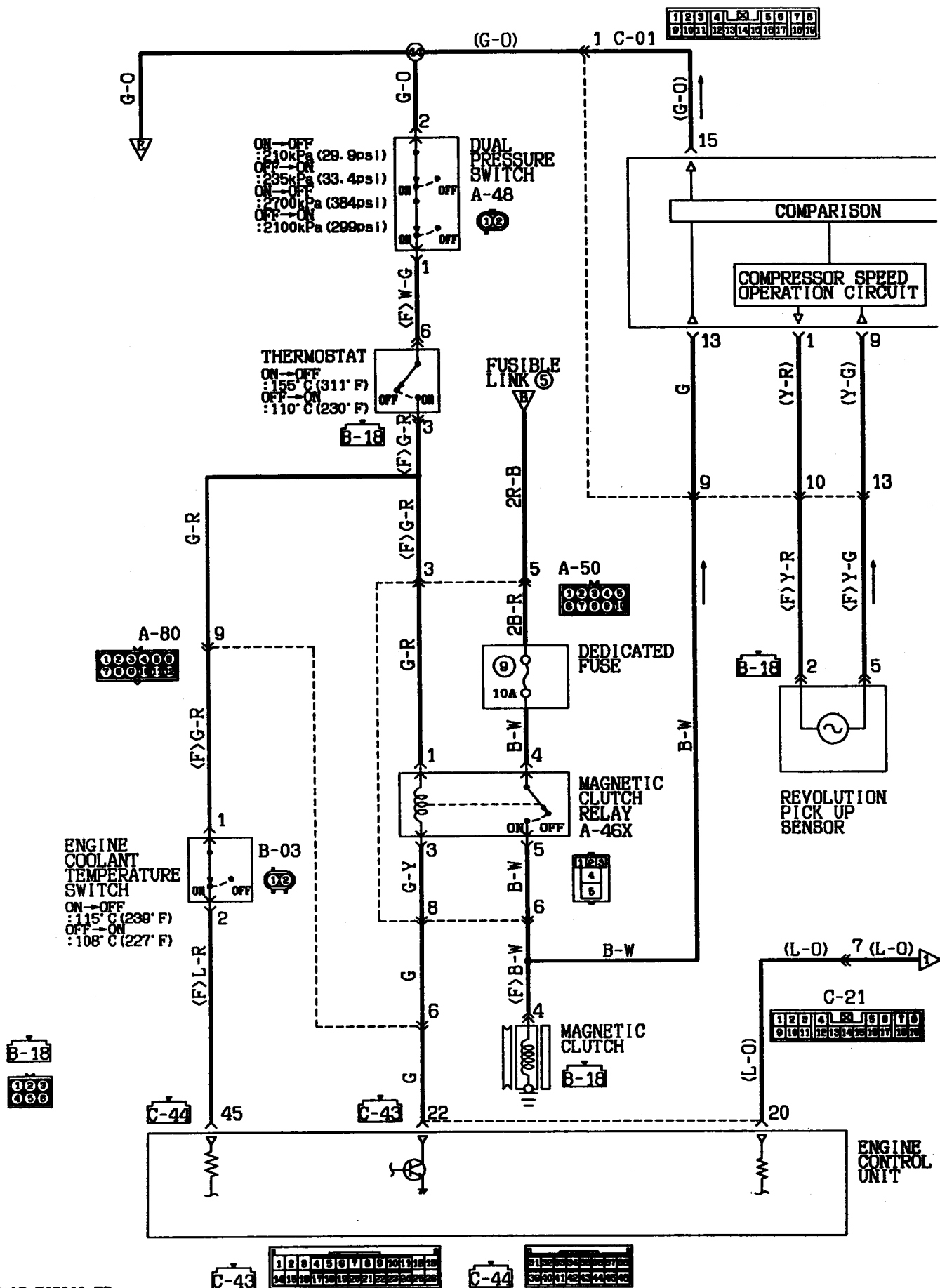
TROUBLESHOOTING HINTS

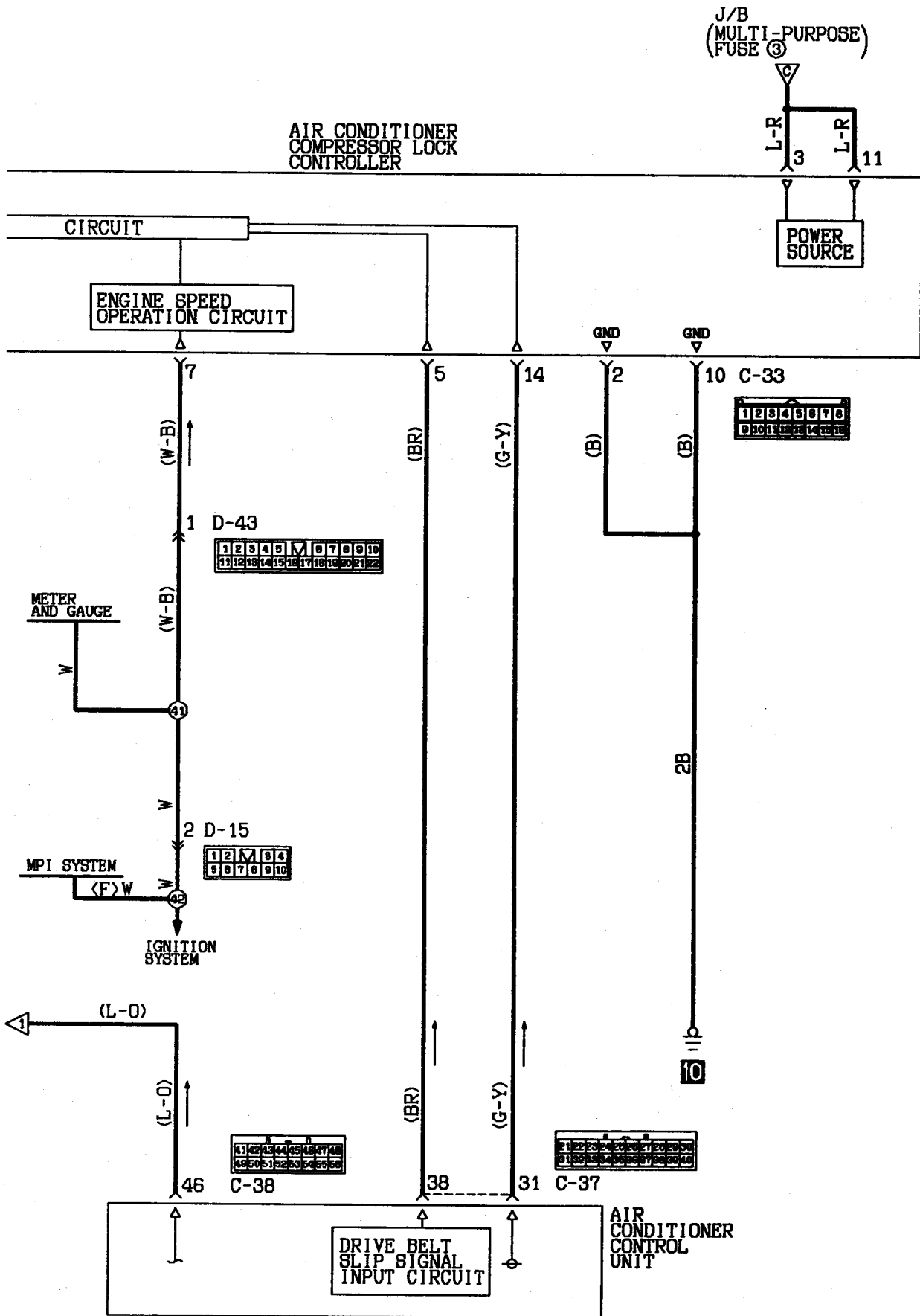
Phenomenon	Inspection method
One of the door lock actuators fails to operate	<ul style="list-style-type: none"> • Check the door actuator which fails to operate.
The passenger's side door doesn't lock or unlock even if the driver's side door lock knob is operated.	<ul style="list-style-type: none"> • Check the door lock actuator switch input signal. • Check the door lock actuator switch. • Check the door lock power relay.
The driver's side door doesn't lock or unlock even if the passenger's side door lock knob is operated.	<ul style="list-style-type: none"> • Check the door key cylinder unlock switch input signal. • Check the door key cylinder unlock switch. • Check the door lock actuator switch input signal. • Check the door lock actuator switch. • Check the door lock power relay.
No unlock operation can be made by pressing door lock knob after fulfilment of following conditions. <ul style="list-style-type: none"> • Insertion of key in ignition switch (key reminder switch OFF) • Opening of driver's side door (door switch ON) 	<ul style="list-style-type: none"> • Check the key reminder switch input signal. • Check the key reminder switch. • Check the driver's side door switch input signal. • Check the driver's side door switch.
Neither the central door locking function nor the key reminder function operates.	<ul style="list-style-type: none"> • Check the door lock actuator switch input signal. • Check the door lock actuator switch. • Check the door lock power relay.

AIR CONDITIONER

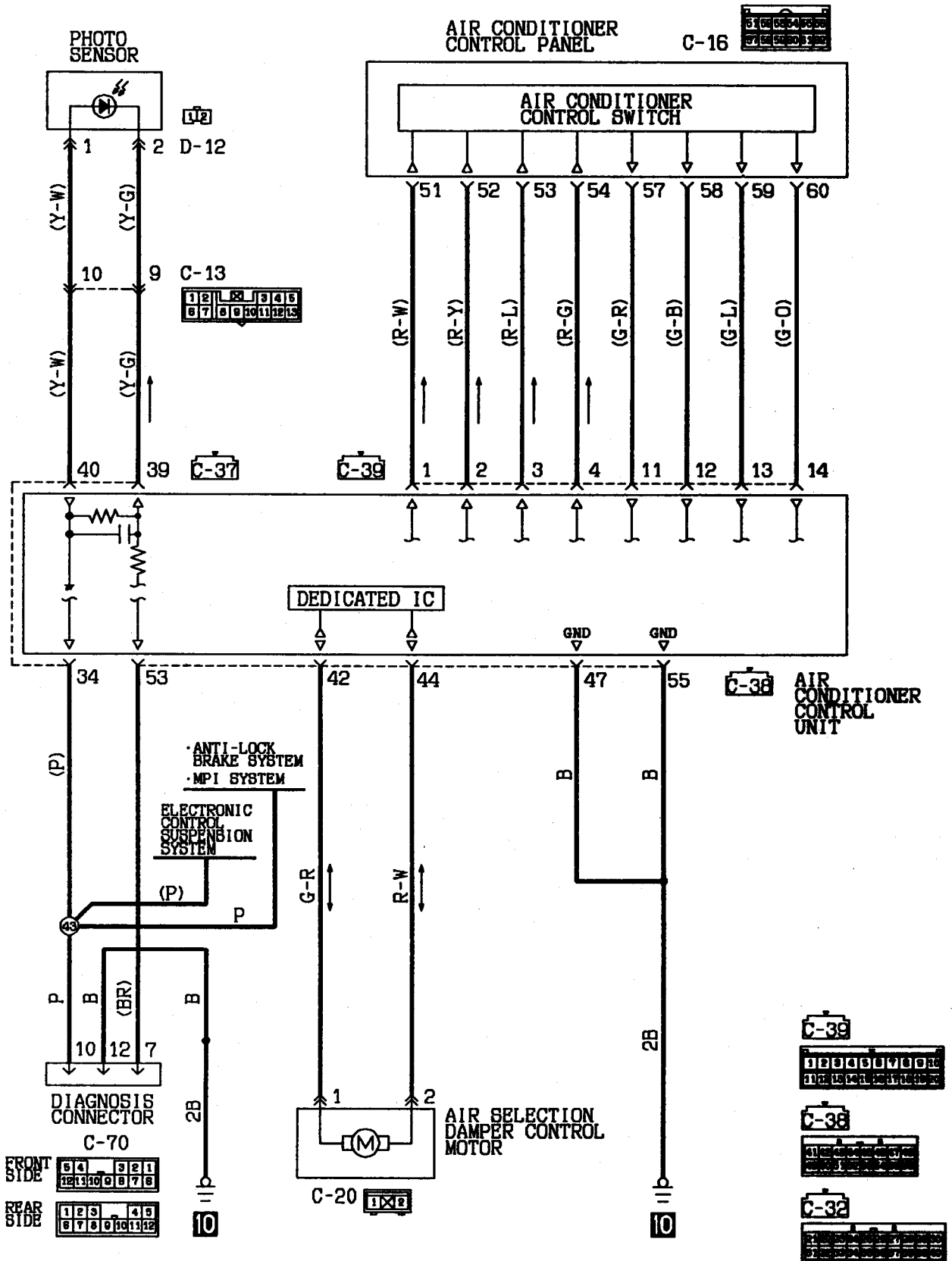
(L.H. drive vehicles)



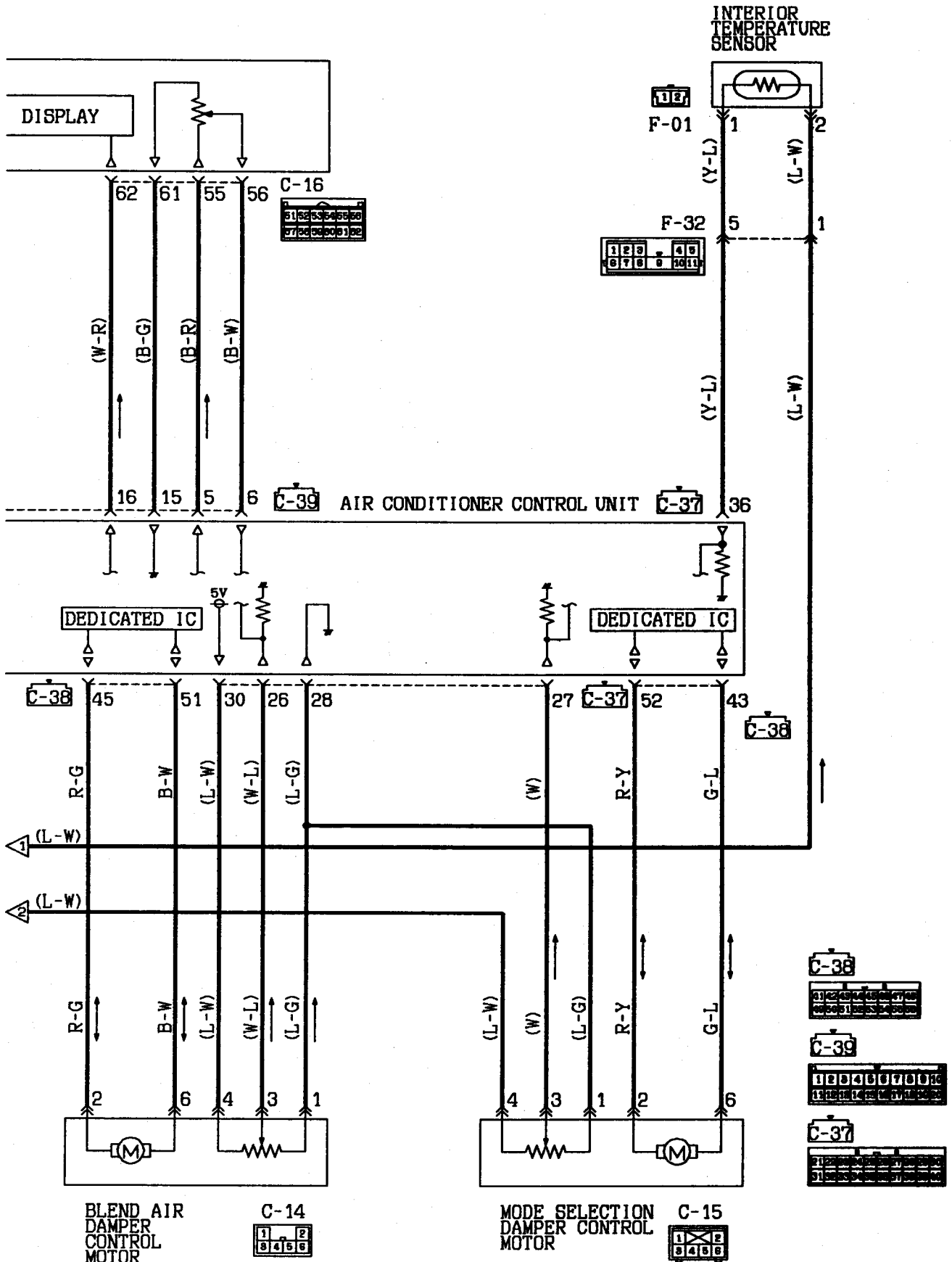




Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

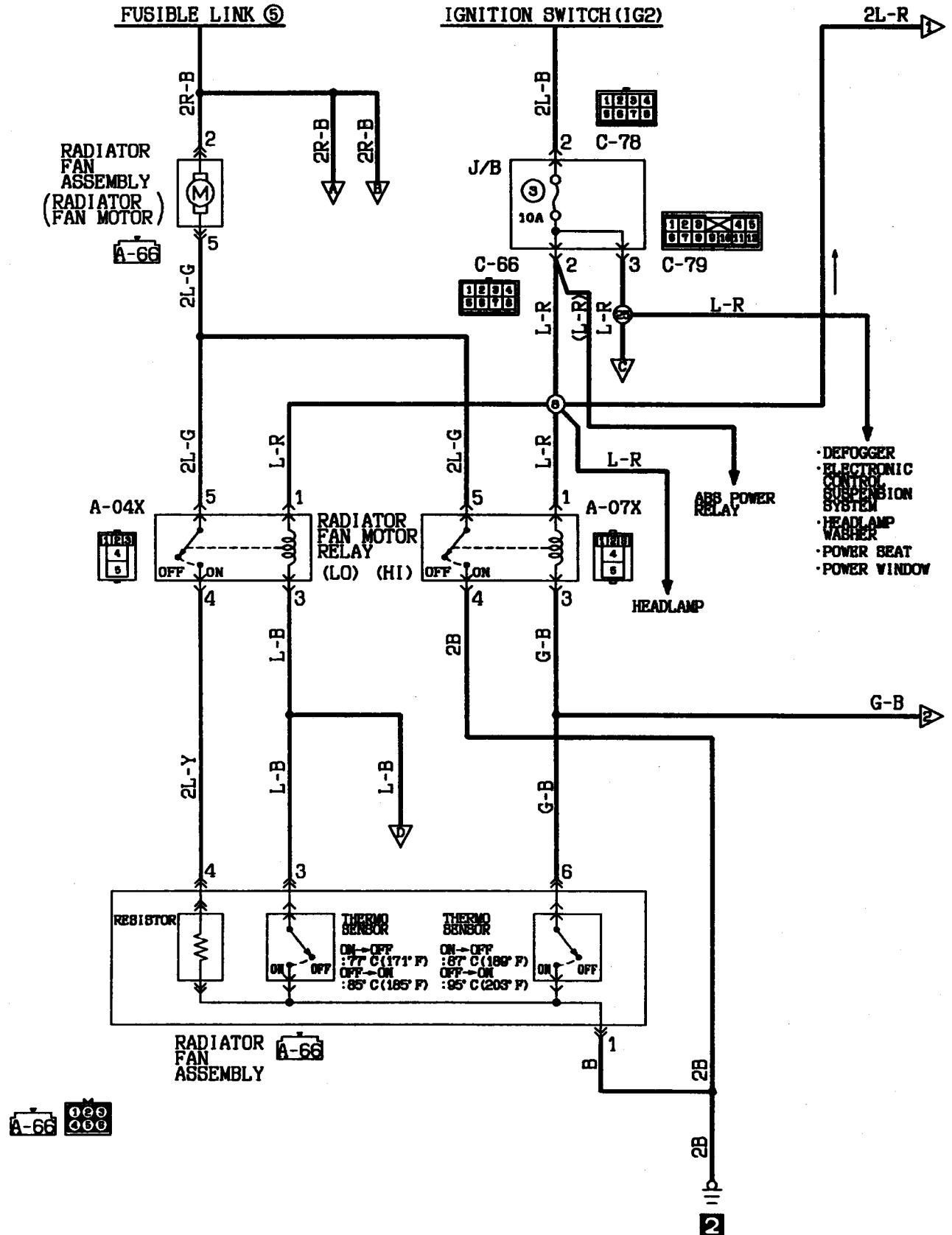


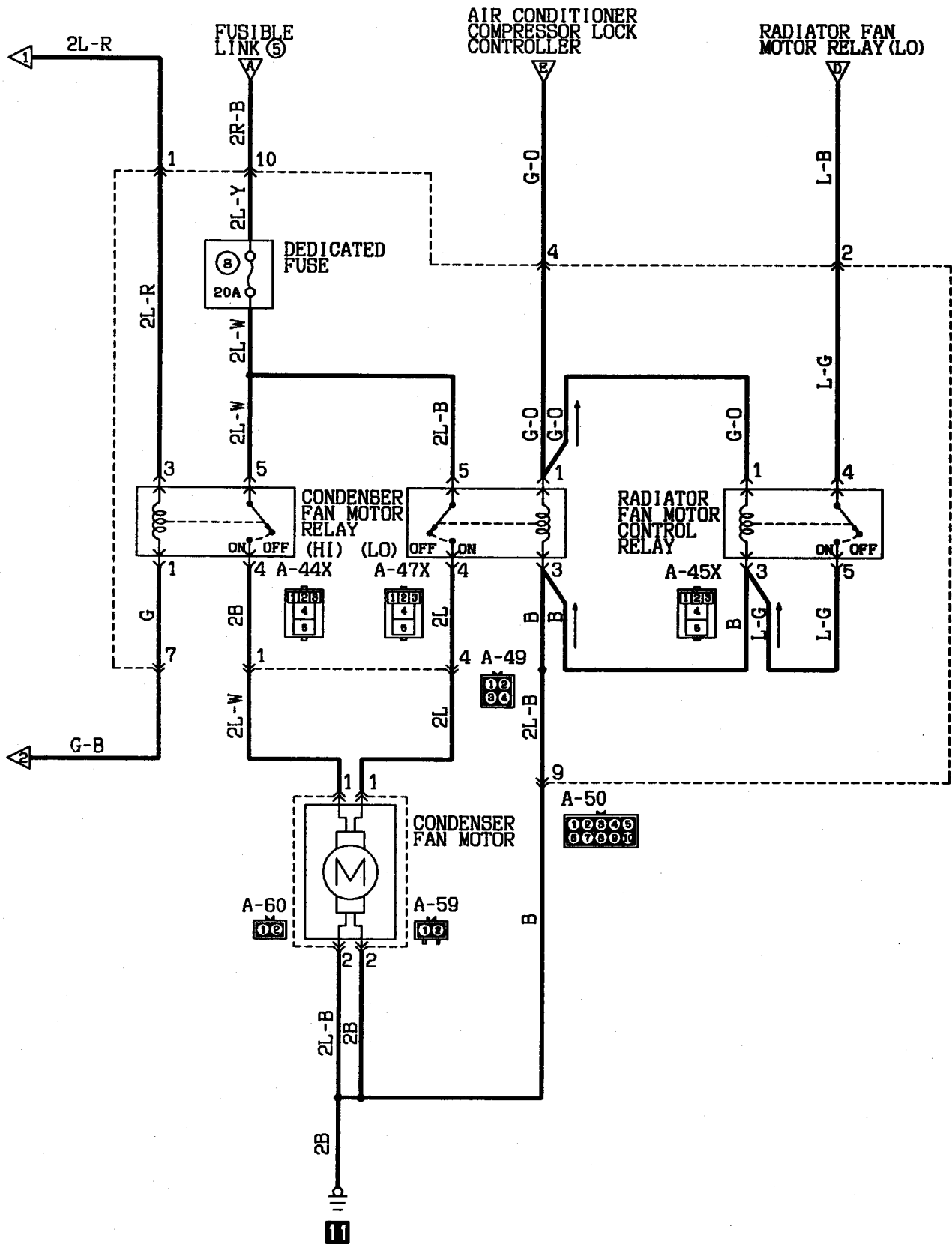
Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



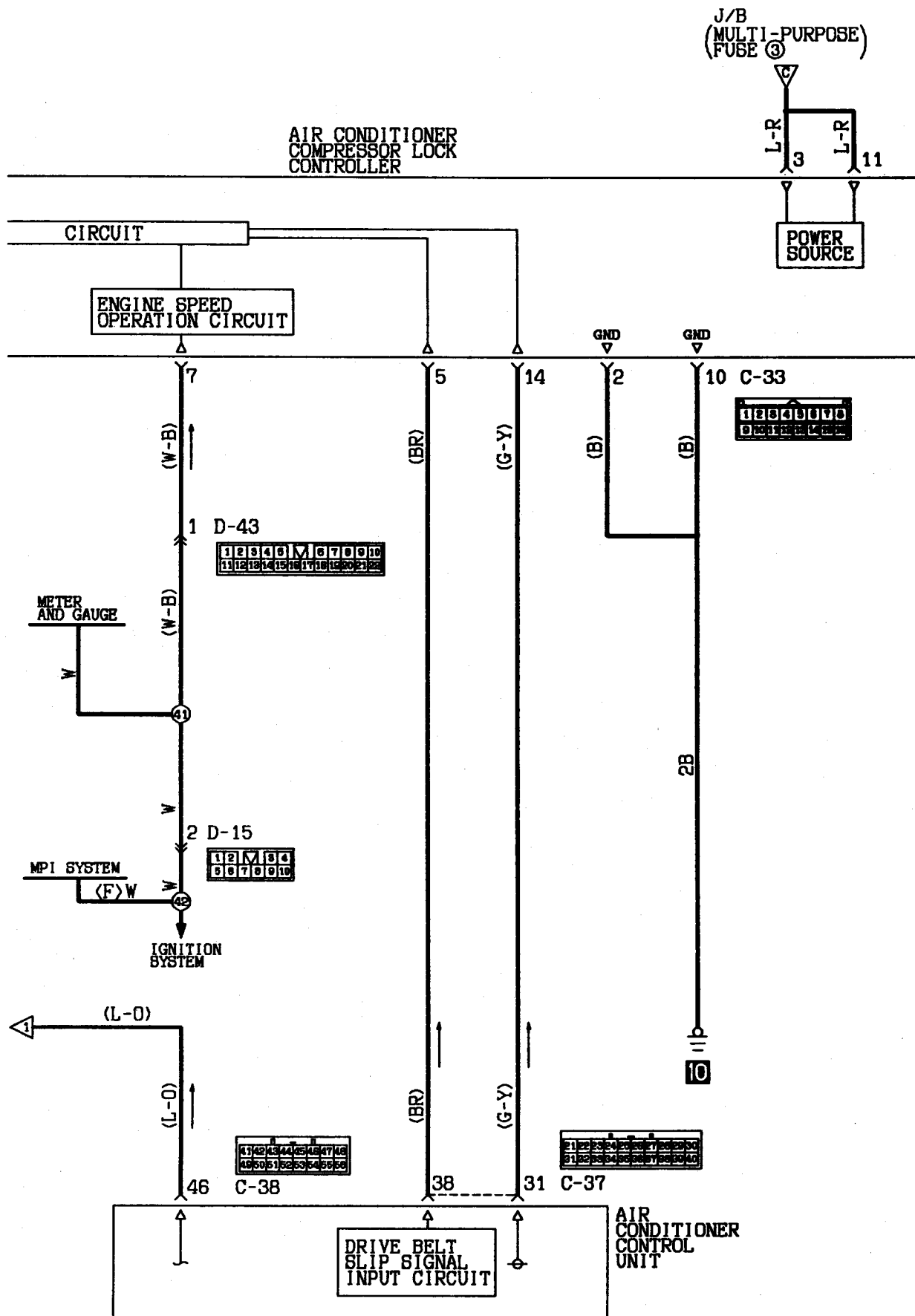
AIR CONDITIONER

<R. H. drive vehicles>

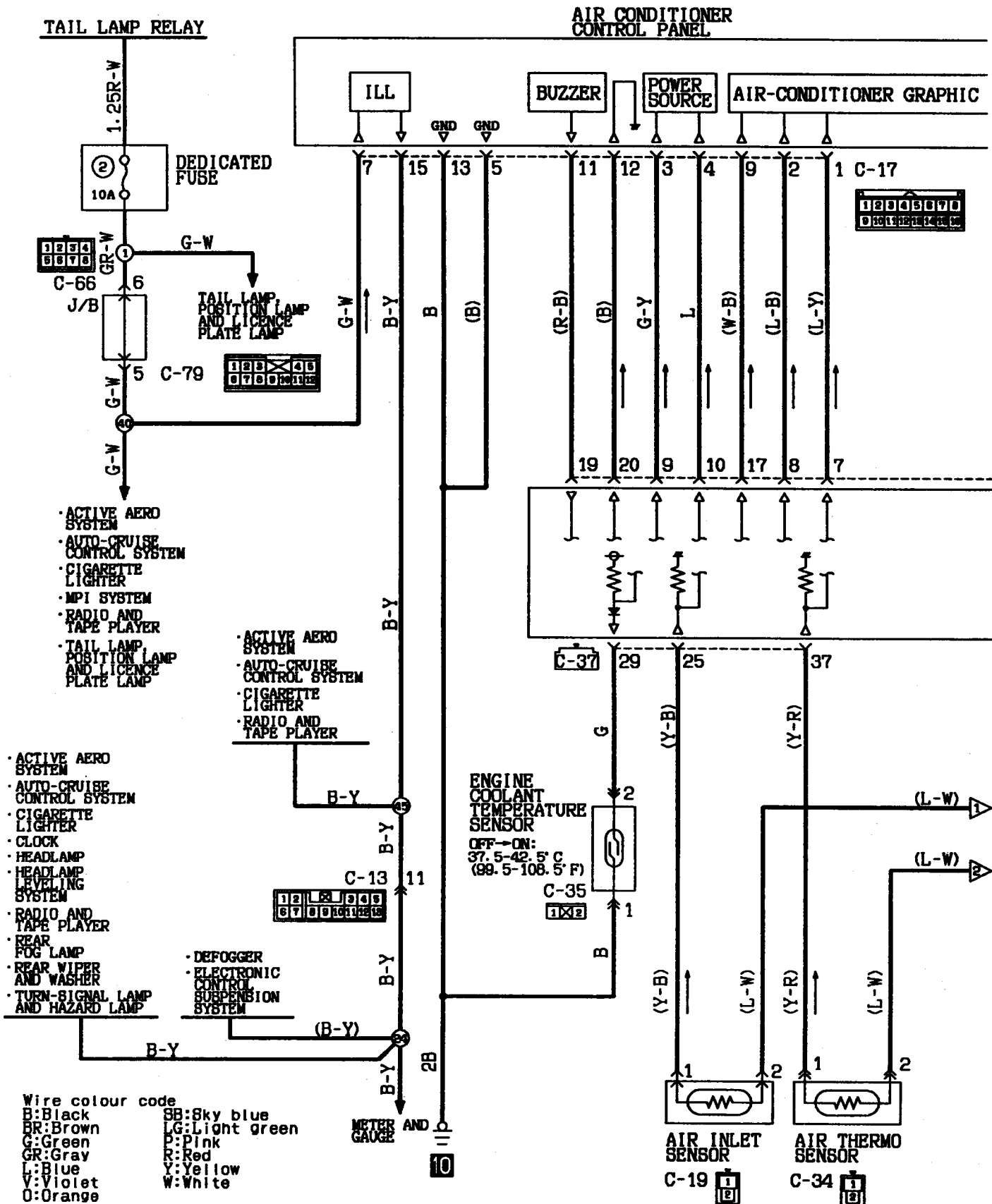




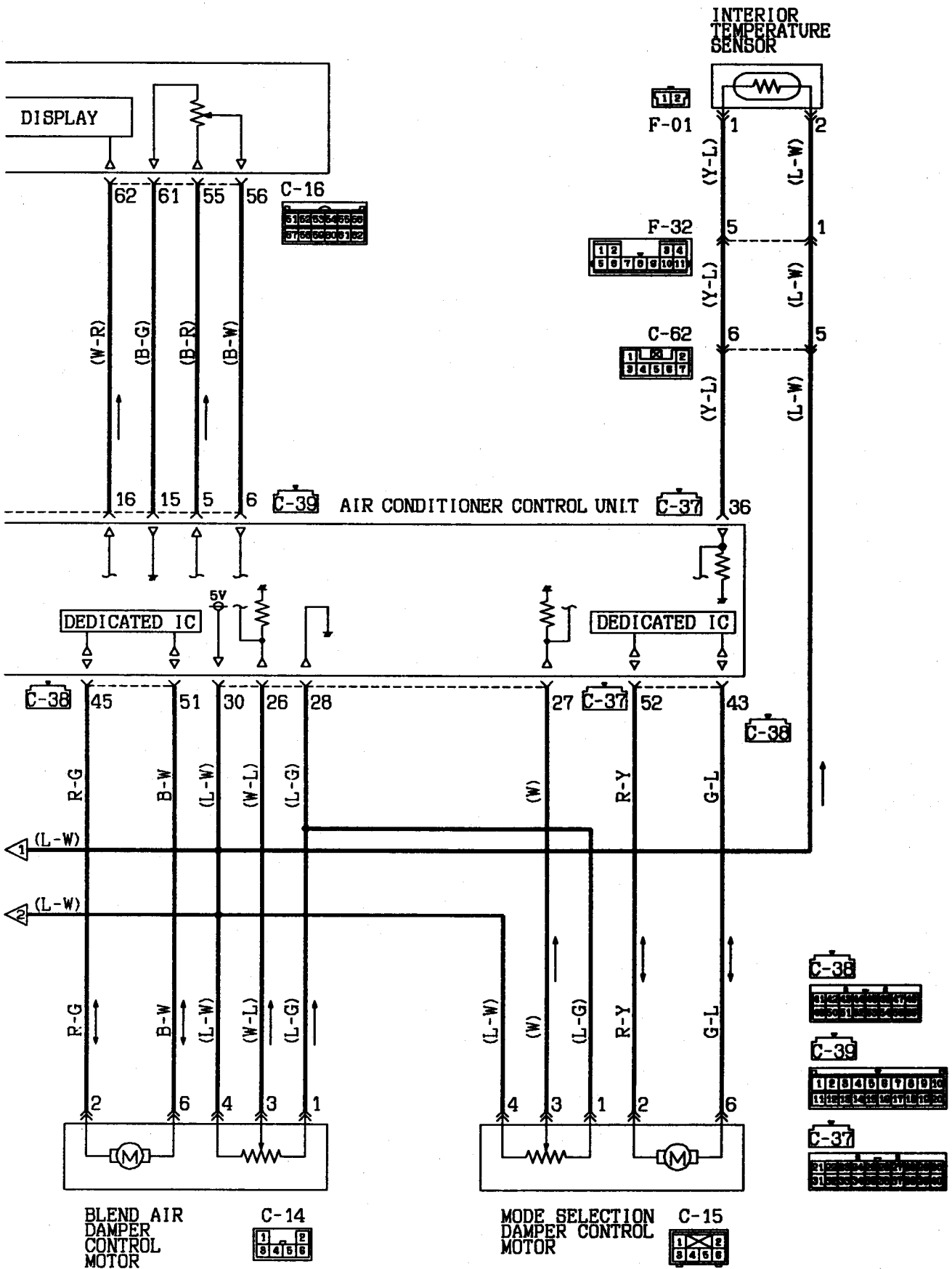
Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



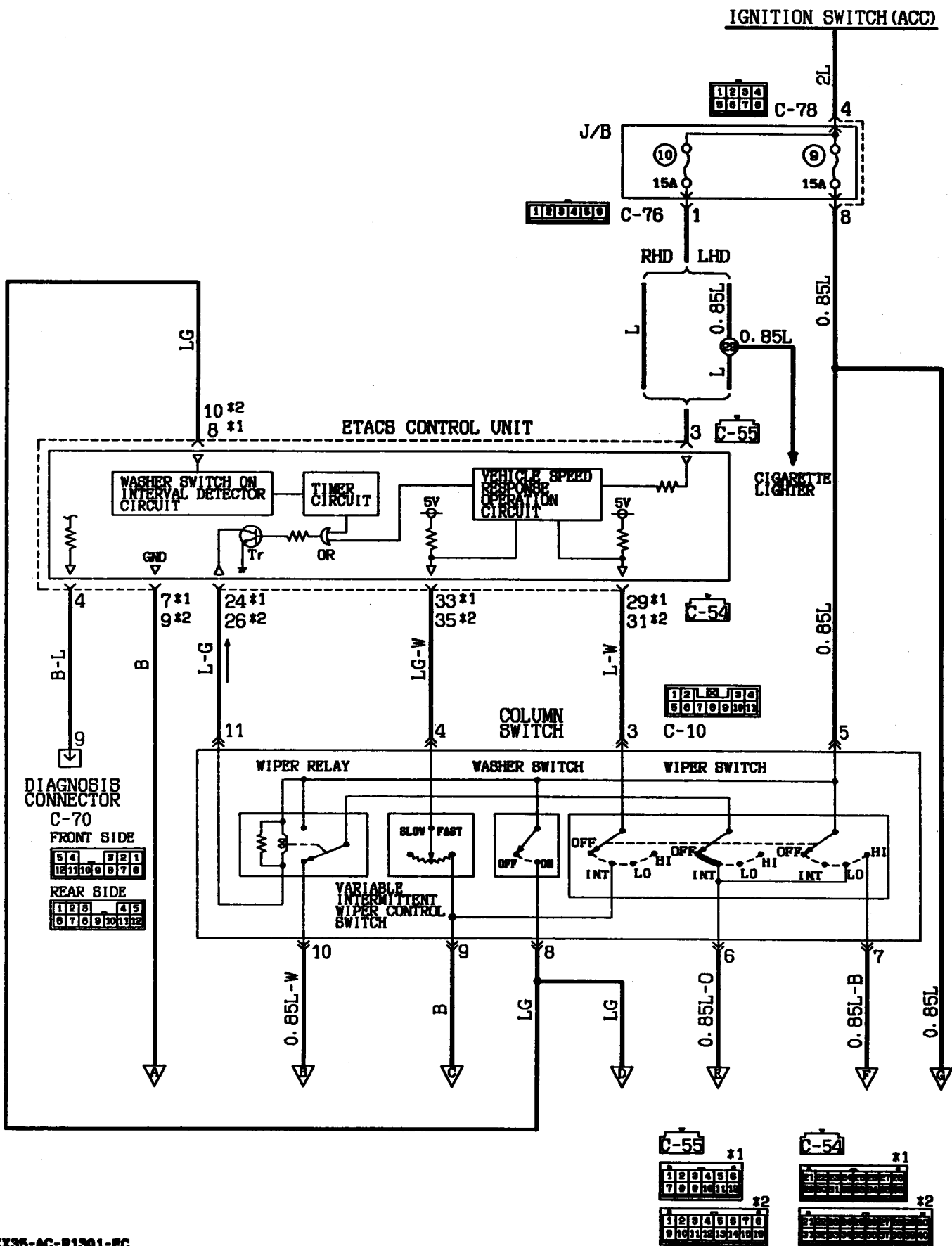
Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



KX35-AC-R1202C-EC



WINDSHIELD WIPER AND WASHER



KX35-AC-R1301-EC

WINDSHIELD WIPER AND WASHER (See P. 4-138.)**OPERATION****<Low-speed (and high-speed) wiper>**

- When the wiper switch is placed in the LO position with the ignition switch in the ACC or ON position, wipers operate continuously at low speed.
- Placing the wiper switch in the HI position causes the wipers to operate at high speed.

<Intermittent wiper>

- If the wiper switch is turned to the INT position when the ignition switch is in the ON or ACC position, the voltage value from the intermittent variable volume switch is input to the intermittent time detection circuit.
- The intermittent time detection circuit outputs an H signal at the intermittent time according to the set value of the intermittent variable volume switch and, via OR, turns the Tr on and off to operate the wiper.

<Auto wiper stop>

- When the wiper switch is placed in the OFF position, the cam contacts of wiper motor causes current to flow through the auto wiper stop circuit, allowing the wiper blades to cycle before they reach to the stop positions.

<Mist wiper>

- If the washer switch is on for 0.6 second or less when the ignition switch is at ON or ACC with the wiper switch turned off, the washer liquid will not be poured but the transistor will be turned on to operate the wipers one time.

<Wiper linked with washer>

- If the washer switch is on for 0.6 second or more when the ignition switch is at ON or ACC with the wiper switch turned off, the washer liquid will be poured and the transistor will be turned on 0.6 second later to operate the wipers two or three times.

<Low washer fluid warning lamp>

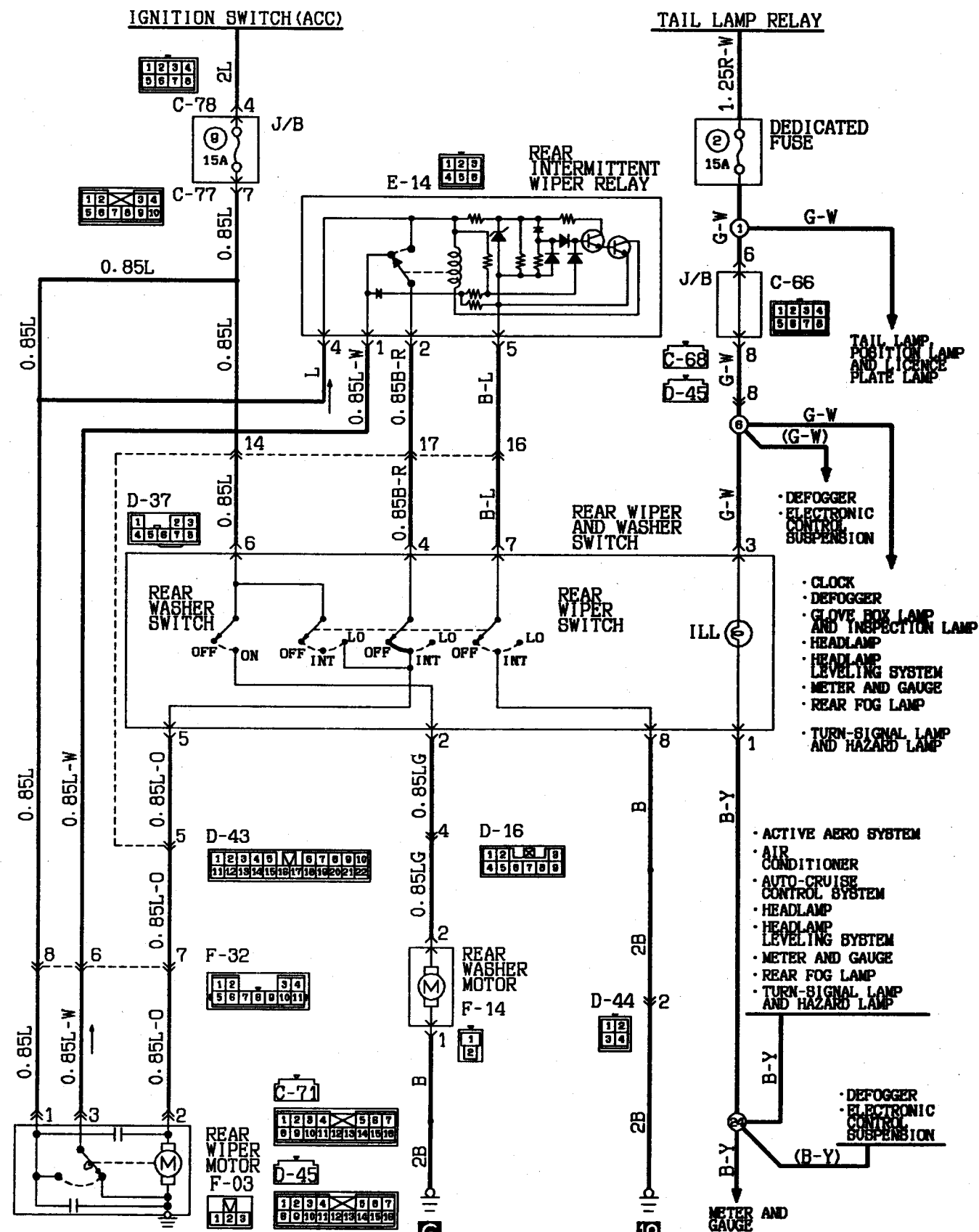
- If the windshield washer fluid is below the specified level when the ignition switch is in the "ON" position, the washer fluid level sensor will be turned on to light the low washer fluid warning lamp.

TROUBLESHOOTING HINTS

Phenomenon		Inspecting method
Wipers do not operate continuously.	Washer does not operate.	• Check the multi-purpose fuse No. ⑨
	Washer operates.	• Check the wiper motor. • Check the column switch.
Low-speed (or high-speed) wiper operation only is inoperative.		• Check the column switch.
Wipers do not operate intermittently. (They operate continuously.)		• Check the wiper switch "INT" input signal. • Check the column switch.
Wipers do not stop.		• Check the wiper switch "INT" input signal. • Check the column switch. • Check the wiper motor.
The intermittent time will not vary even if the variable intermittent wiper control switch is operated.		• Check the variable intermittent wiper control switch input signal. • Check the column switch.
Even if the washer switch is on for 0.6 second or more, the washer will not operate.	The wipers linked with the washer operate.	• Check the washer motor. • Check the washer nozzle and washer tube.
	The wipers linked with the washer do not operate.	• Check the washer switch input signal. • Check the washer switch.

REAR WIPER AND WASHER

(L.H. drive vehicles)



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

KX35-AC-R1302-EC

REAR WIPER AND WASHER (See P. 4-141, 142.)**OPERATION****<Low-speed wiper>**

- When the rear wiper switch is placed in the ON position with the ignition switch in the ACC or ON position, wipers operate continuously at low speed.

<Auto wiper stop>

- When the rear wiper switch is placed in the OFF position, the cam contacts of wiper motor causes current to flow through the auto wiper stop circuit, allowing the wiper blades to cycle before they reach to the stop positions.

<Intermittent wiper>

- When the rear wiper switch is placed in the INT position with the ignition switch in ACC or ON position, the rear intermittent wiper relay is energized causing the rear intermittent wiper relay contacts to close and open repeatedly.
- When the contacts are closed, the wiper motor is energized.
- When the rear wiper motor is energized, the rear intermittent wiper relay contacts open; however, the cam contacts keep the rear wiper motor energized until the wiper blades return to their stop position.

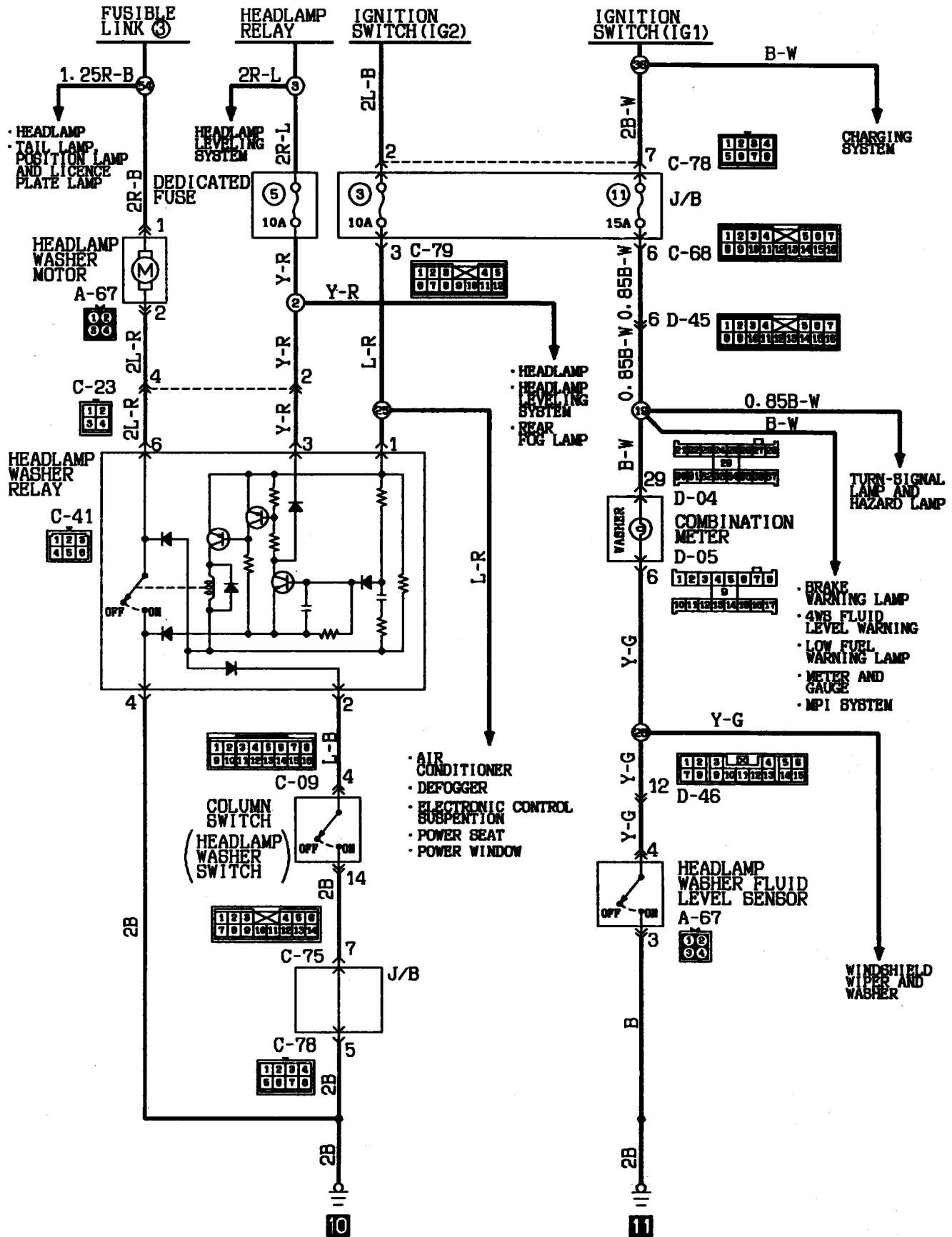
TROUBLESHOOTING HINTS

1. Wipers do not operate.
 - (1) Washer is not operative, either.
 - Check multi-purpose fuse No. ⑨.
 - Check earth.
2. Low-speed wiper operation only is inoperative.
 - Check wiper switch.
3. Wipers do not stop.
 - Check wiper motor.
 - Check rear intermittent wiper relay.
 - Check rear wiper switch.
4. Intermittent wiper operation is inoperative.
 - Check terminal voltage of the rear intermittent wiper relay energized.

Terminal No.	Voltage	Check
2	0V	Rear intermittent wiper relay or rear wiper switch
	12V	Rear intermittent wiper relay
	0 ↔ 12V (alternating)	— (Normal)

5. Washer is inoperative.
 - Check washer motor.
 - Check washer switch.

HEADLAMP WASHER



Wire colour code
 B:Black LG:Light green G:Green L:Blue Y:White Y:Yellow BB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

HEADLAMP WASHER (See P. 4-144.)

OPERATION

- When the headlamp washer switch is turned ON with ignition switch in ON and lighting switch in HEAD position, the headlamp washer relay is energized causing the headlamp washer motor to start.

<Low washer fluid warning lamp>

- If the headlamp washer fluid is below the specified level when the ignition switch is in the "ON" position, the washer fluid level sensor will be turned on to light the low washer fluid warning lamp.

REMOTE CONTROLLED MIRROR (See P. 4-146, 147.)

OPERATION

- When the remote controlled mirror switch is operated while the ignition key is in "ACC" or "ON" position, current flows through fuse No. ⑤ remote controlled mirror switch, remote controlled mirror, remote controlled mirror switch, and earth, causing the mirror to move.

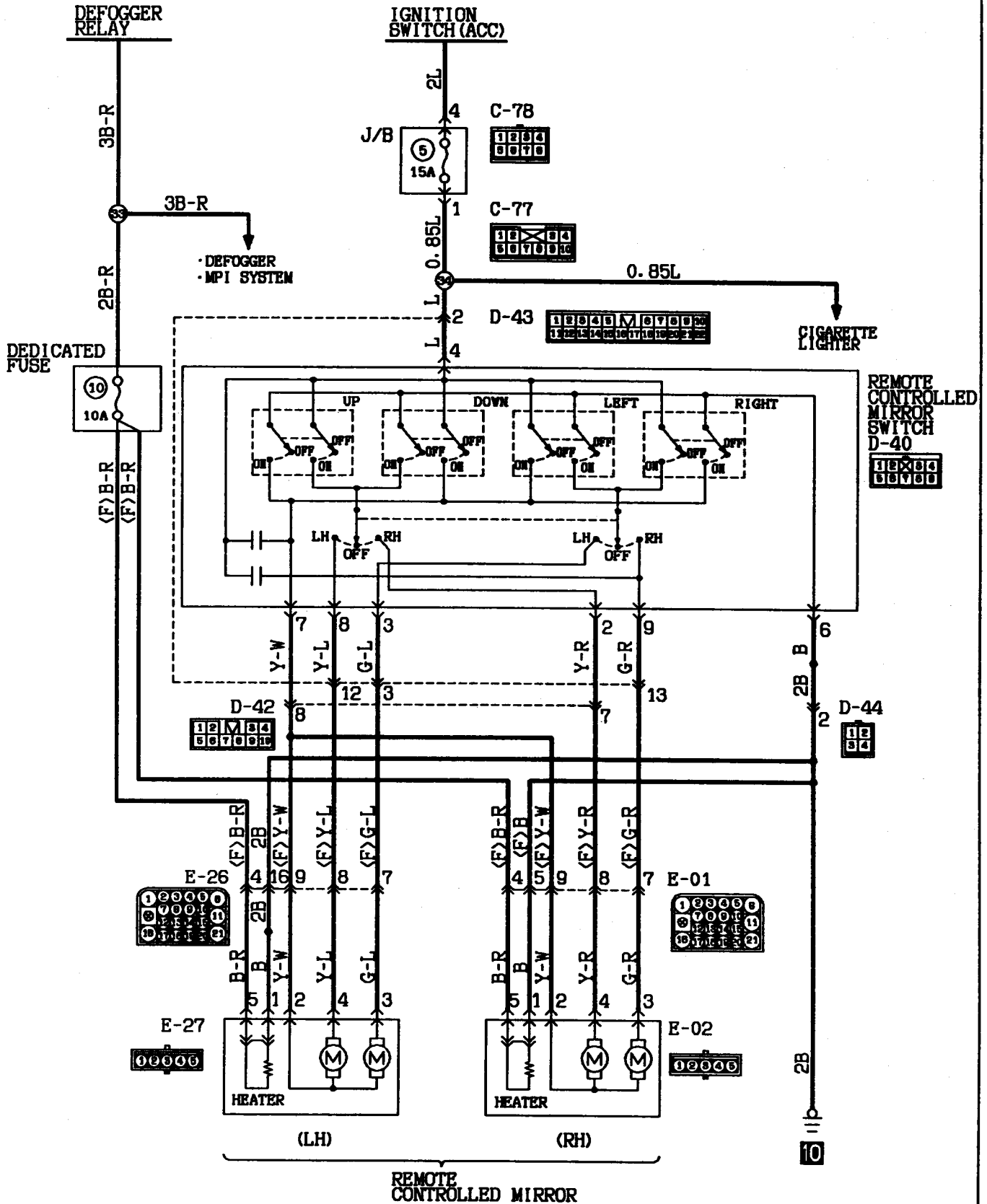
TROUBLESHOOTING HINTS

Neither right nor left mirror operates

- 1) Also cigarette lighter does not operate
 - Check multi-purpose fuse No. ⑤.
- 2) Cigarette lighter operates
 - Check remote controlled mirror switch.

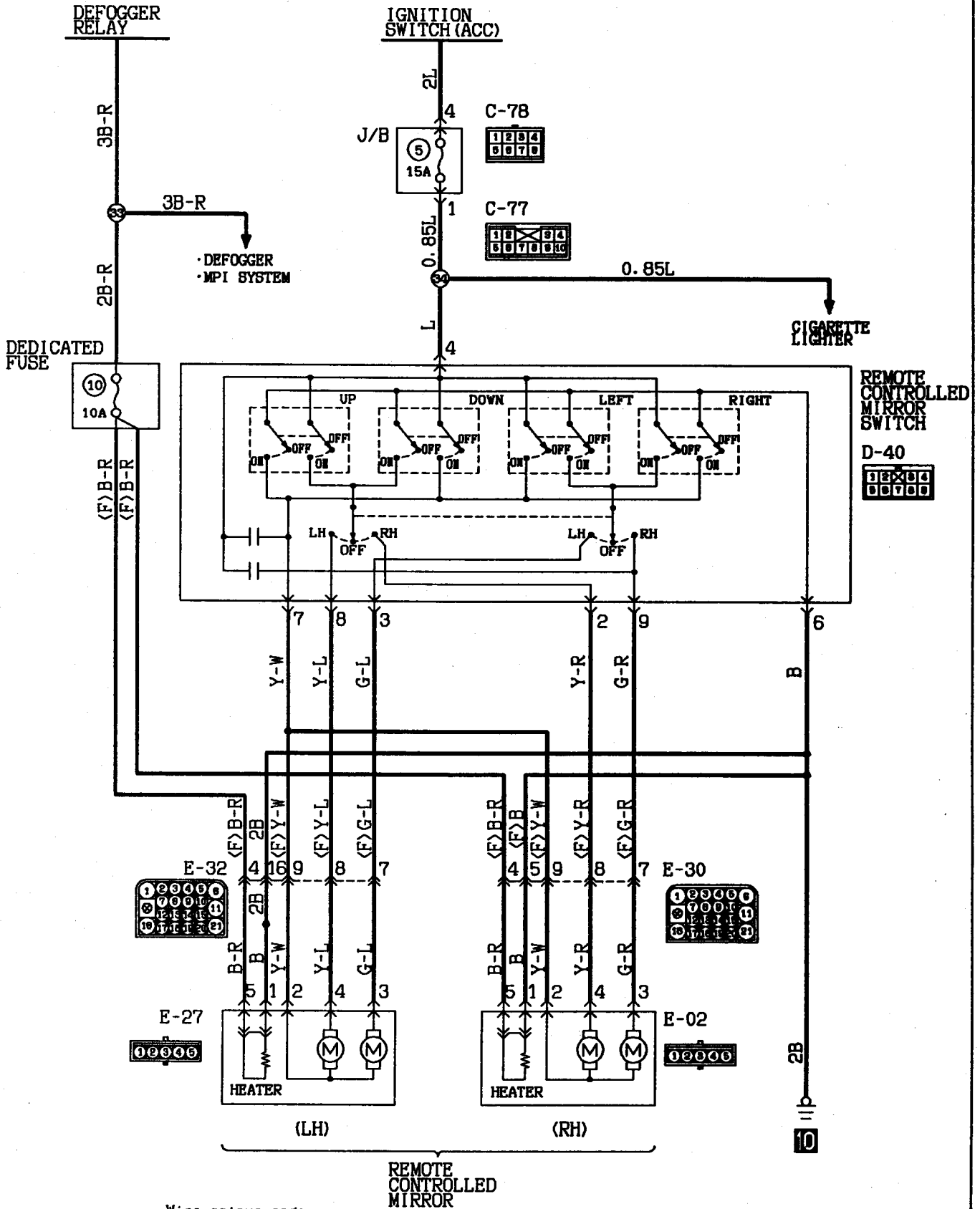
REMOTE CONTROLLED MIRROR

(L.H. drive vehicles)



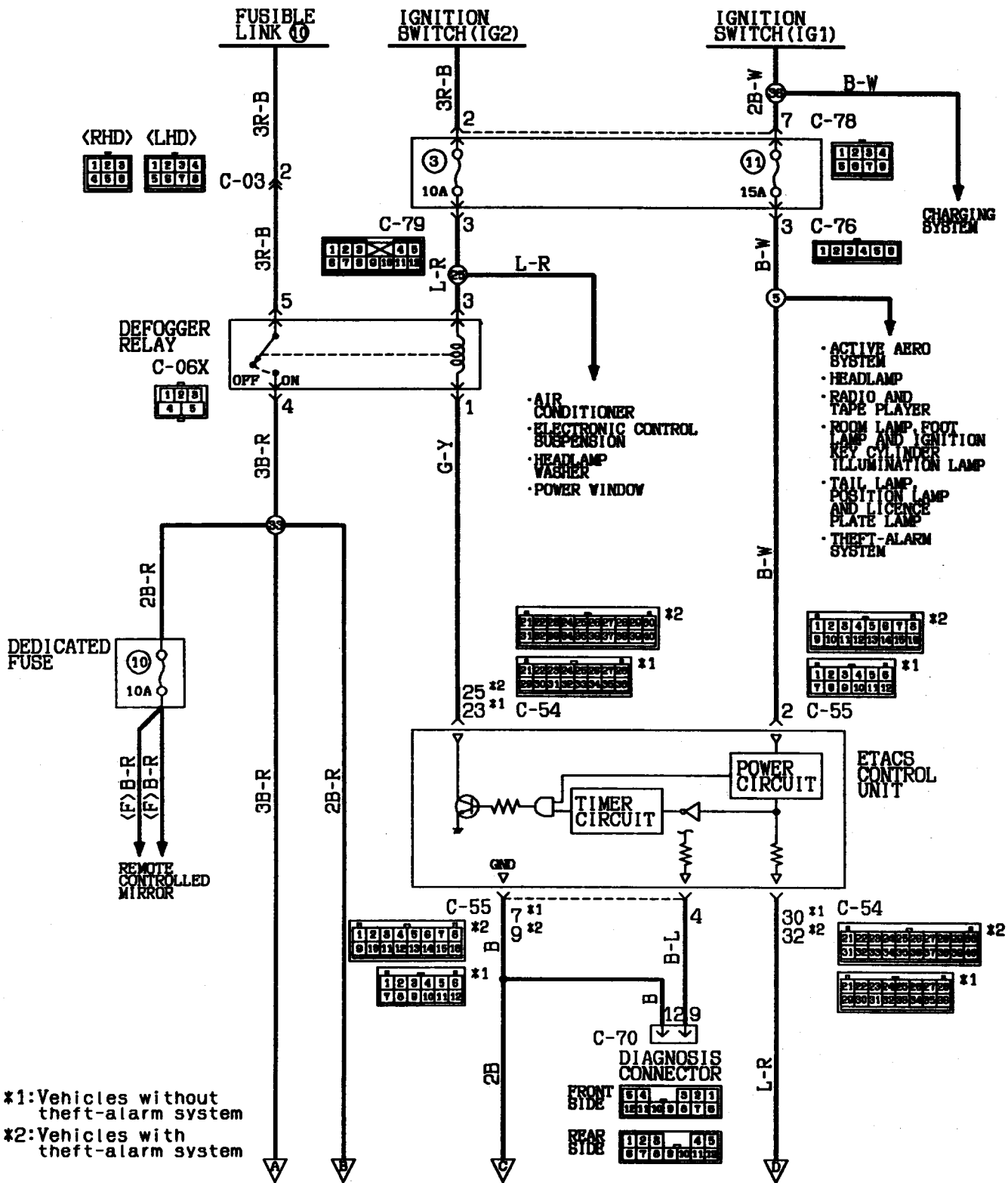
Wire colour code
 B:Black LG:Light green G:Green L:Blue Y:White Y:Yellow SB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

REMOTE CONTROLLED MIRROR
(R.H. drive vehicles)



Wire colour code
 B:Black LG:Light green G:Green L:Blue V:White Y:Yellow BB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

DEFOGGER



*1: Vehicles without theft-alarm system
 *2: Vehicles with theft-alarm system

Wire colour code

B:Black LG:Light green G:Green L:Blue Y:White Y:Yellow SB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

DEFOGGER (See P. 4-148.)**OPERATION**

- If the defogger switch is turned to "ON" with the ignition switch at the "ON" position, the timer circuit in the ETACS control unit will be operated keep the transistor "on" for 11 minutes to close the contact point of the defogger relay. When the defogger relay is "on", the defogger and mirror heater will be activated. Moreover, the indicator lamp of the defogger switch is lit to inform that the defogger and mirror heater are activated.
- When 11 minutes have passed, the defogger and mirror heater will stop activating even if the defogger switch is at "ON". When the defogger and mirror heater are activated (the timer is activated), they will also stop activating even if the defogger switch is set at "ON" again.

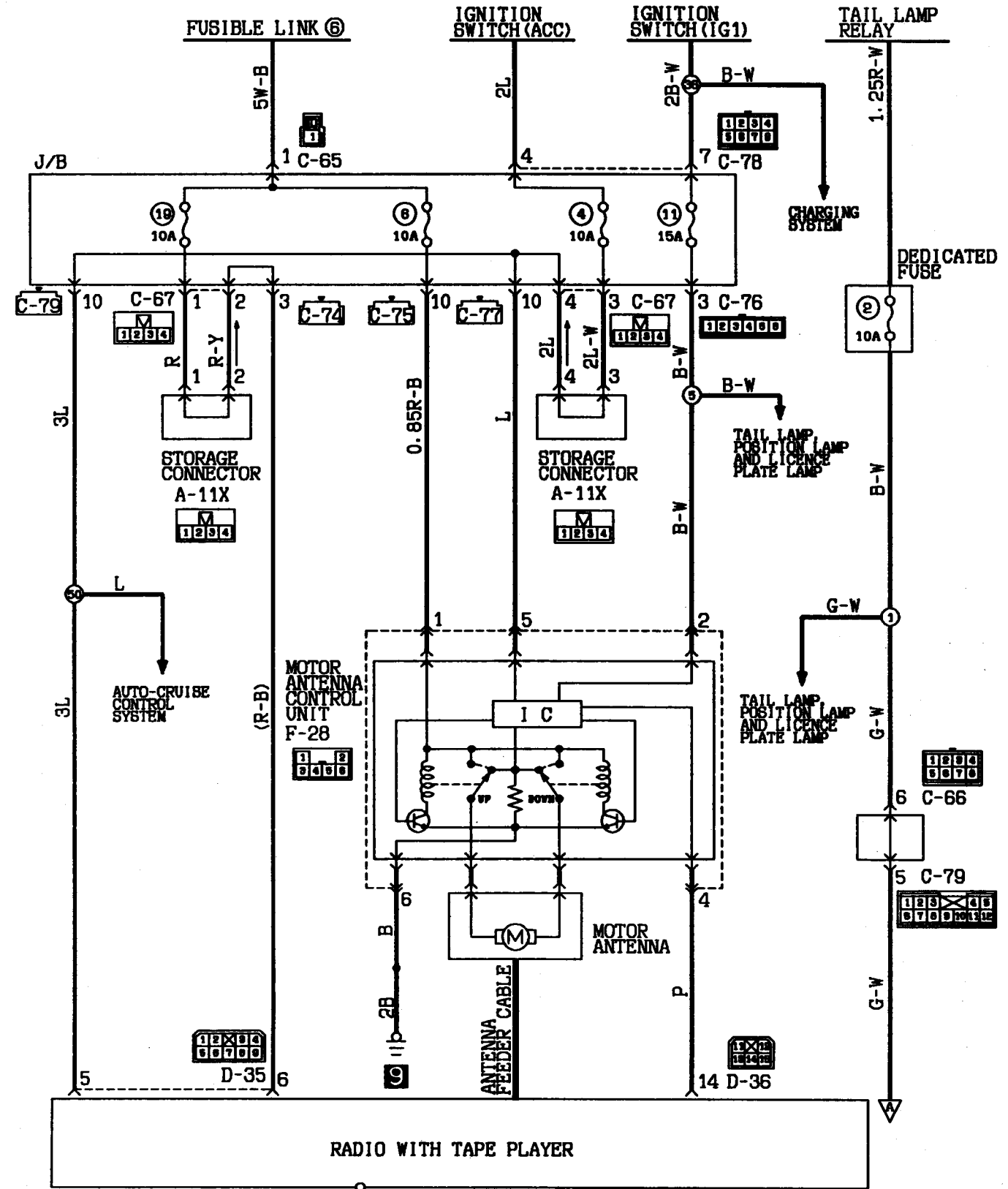
TROUBLESHOOTING HINTS

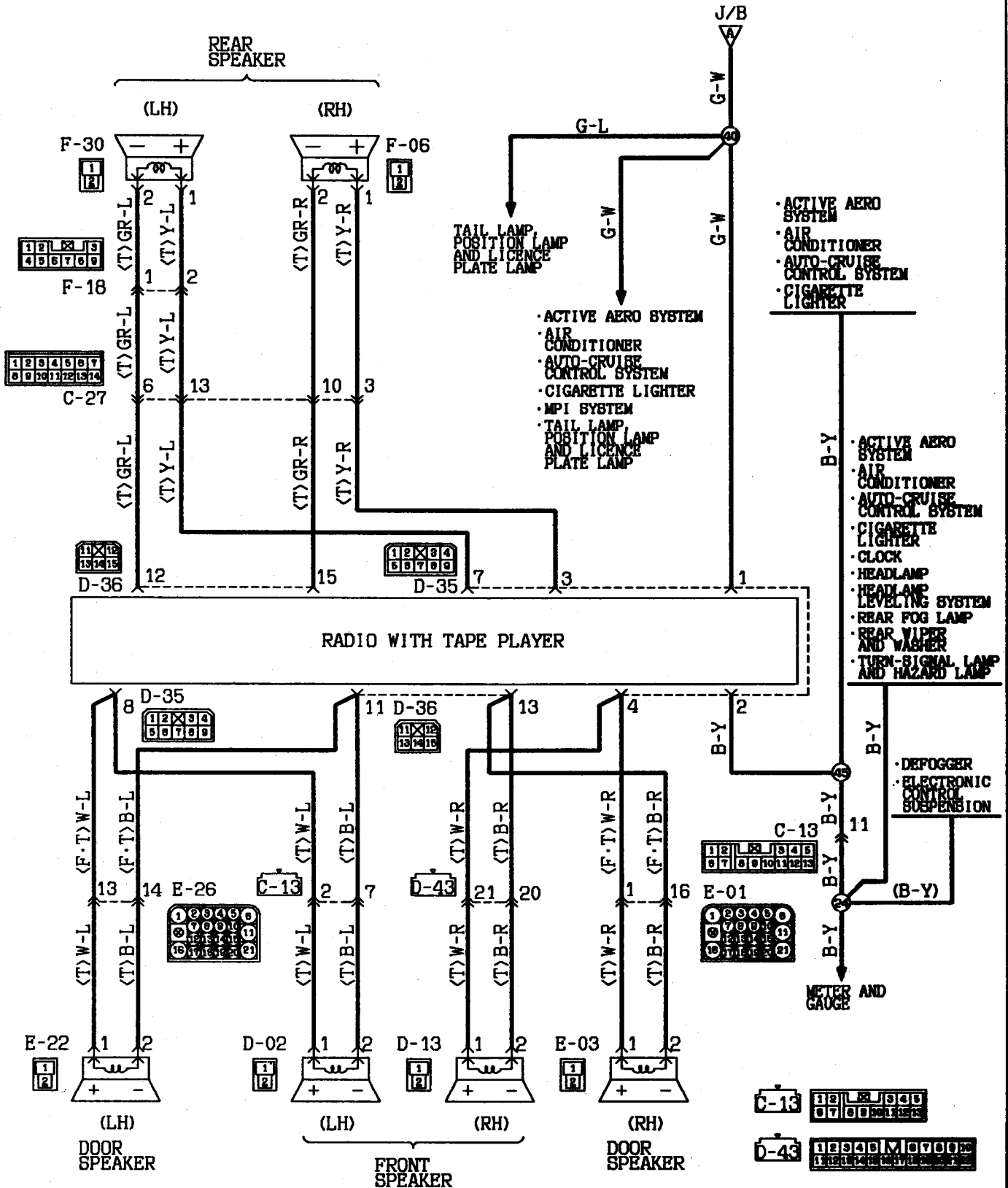
Phenomenon	Checking method
Mirror heater operates but defogger does not operate.	<ul style="list-style-type: none"> • Check the defogger
Defogger operates but mirror heater does not operate.	<ul style="list-style-type: none"> • Check the dedicated fuse No. ⑩. • Check the mirror heater.
Neither defogger nor mirror heater operates.	<ul style="list-style-type: none"> • Check the multi-purpose fuse No. ③. • Check the defogger relay. • Check the defogger switch. • Check the defogger switch input signal. • Check the ignition switch input signal.
Illumination lamp of defogger switch does not come on or is dim.	<ul style="list-style-type: none"> • Check the illumination lamp bulb. • Check the rheostat.

NOTES

RADIO AND TAPE PLAYER

<L.H. drive vehicles>

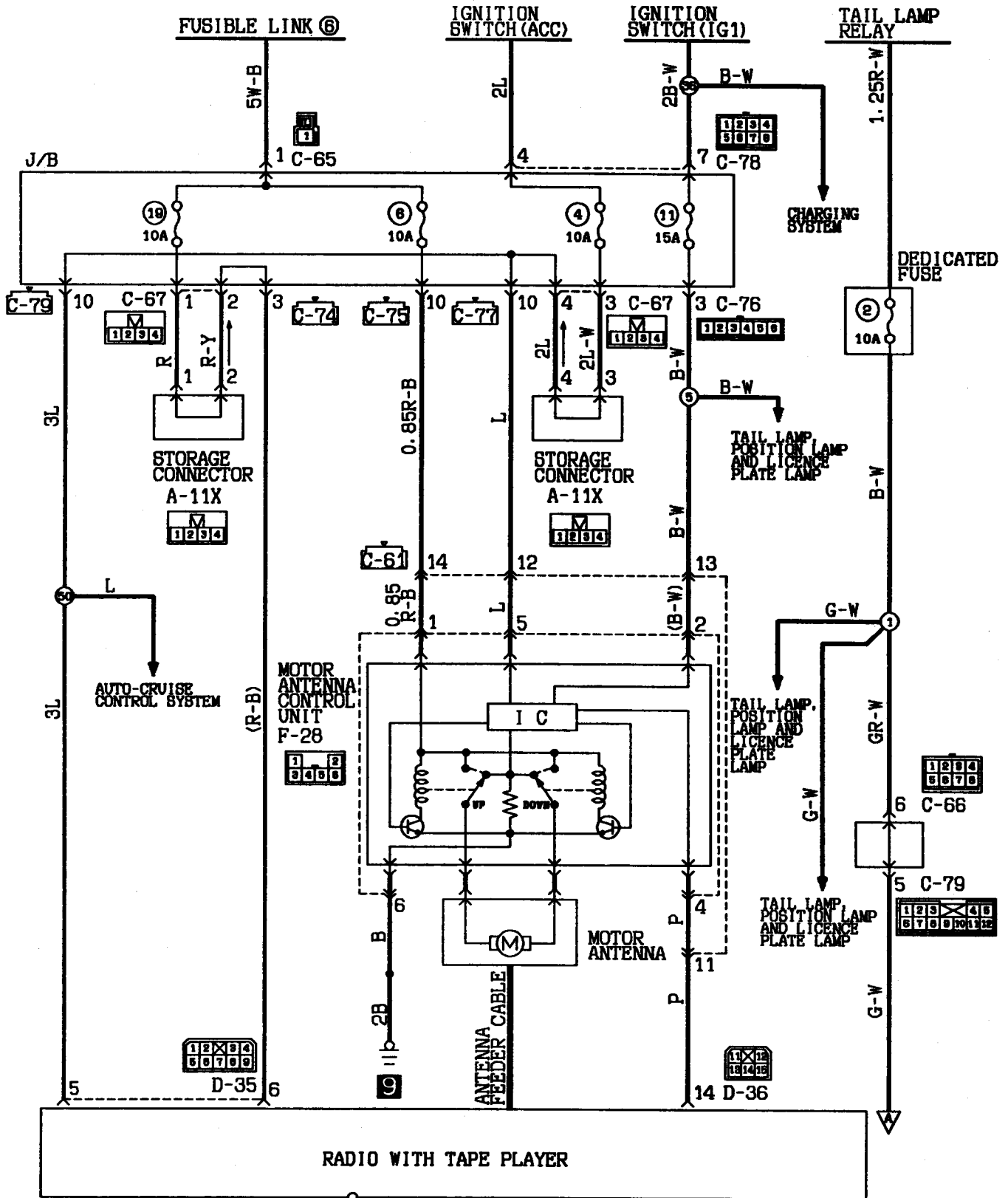




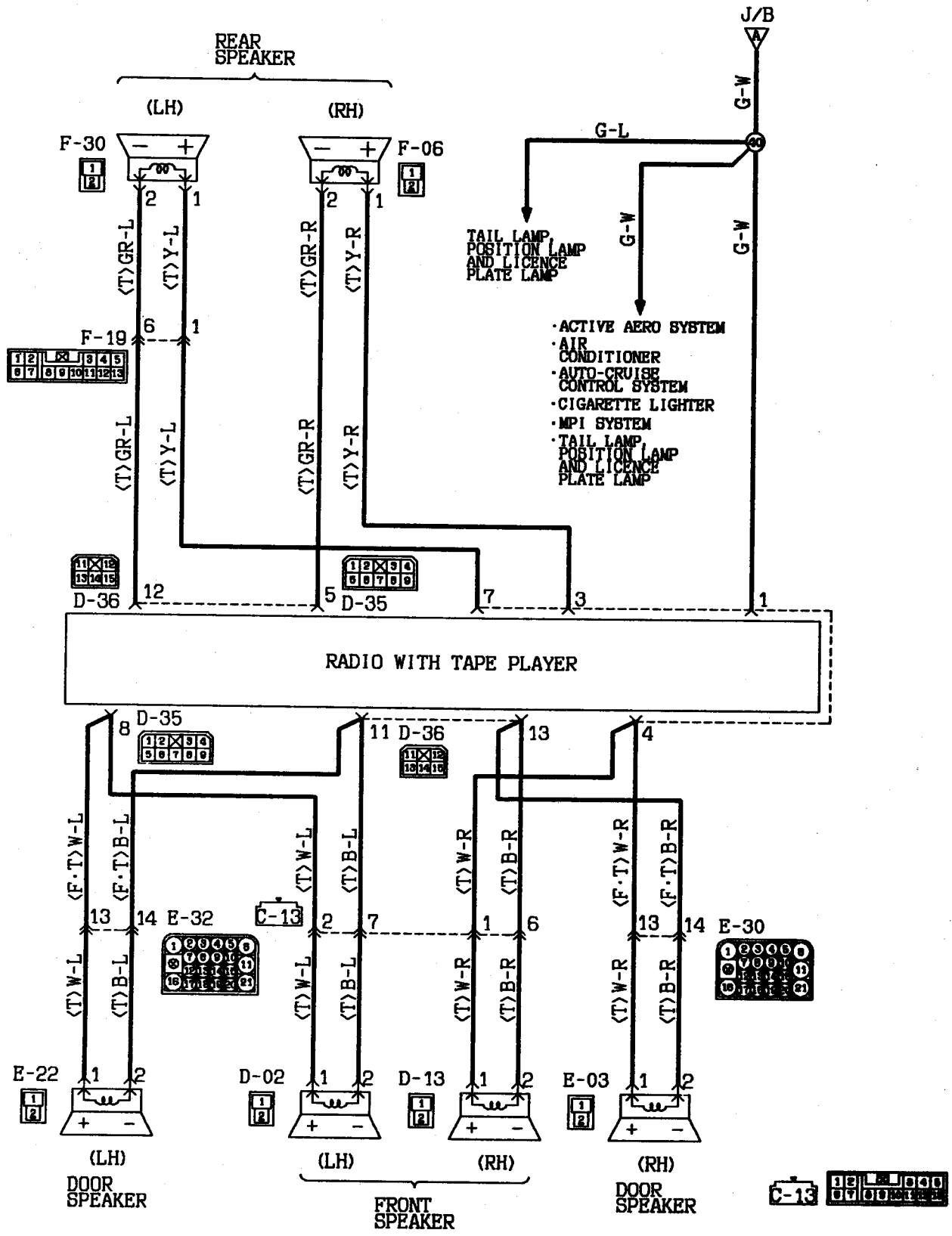
Wire colour code
 B:Black LG:Light green G:Green L:Blue W:White Y:Yellow BB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

RADIO AND TAPE PLAYER

<R. H. drive vehicles>

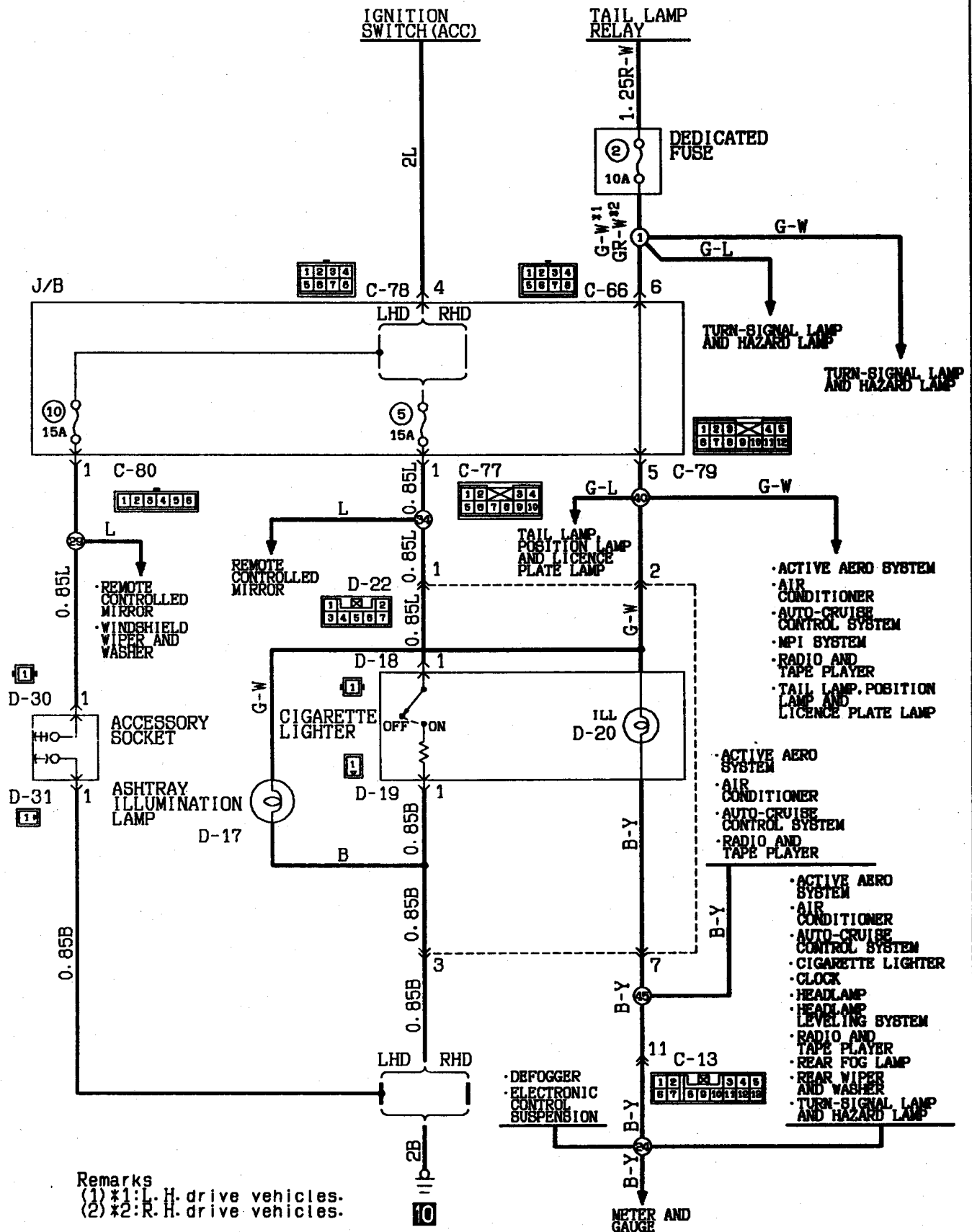


KX35-AC-R1402-EC



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

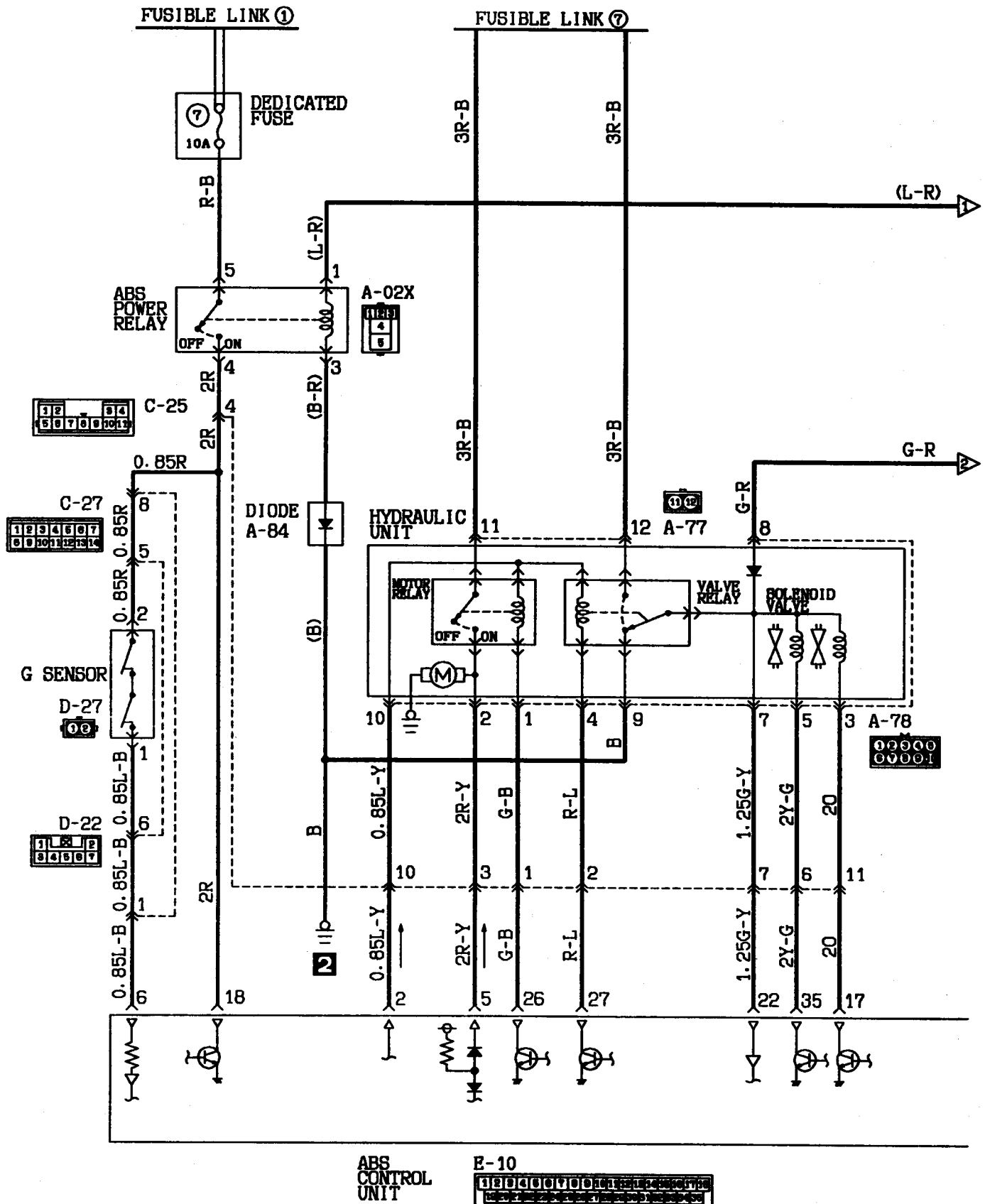
CIGARETTE LIGHTER

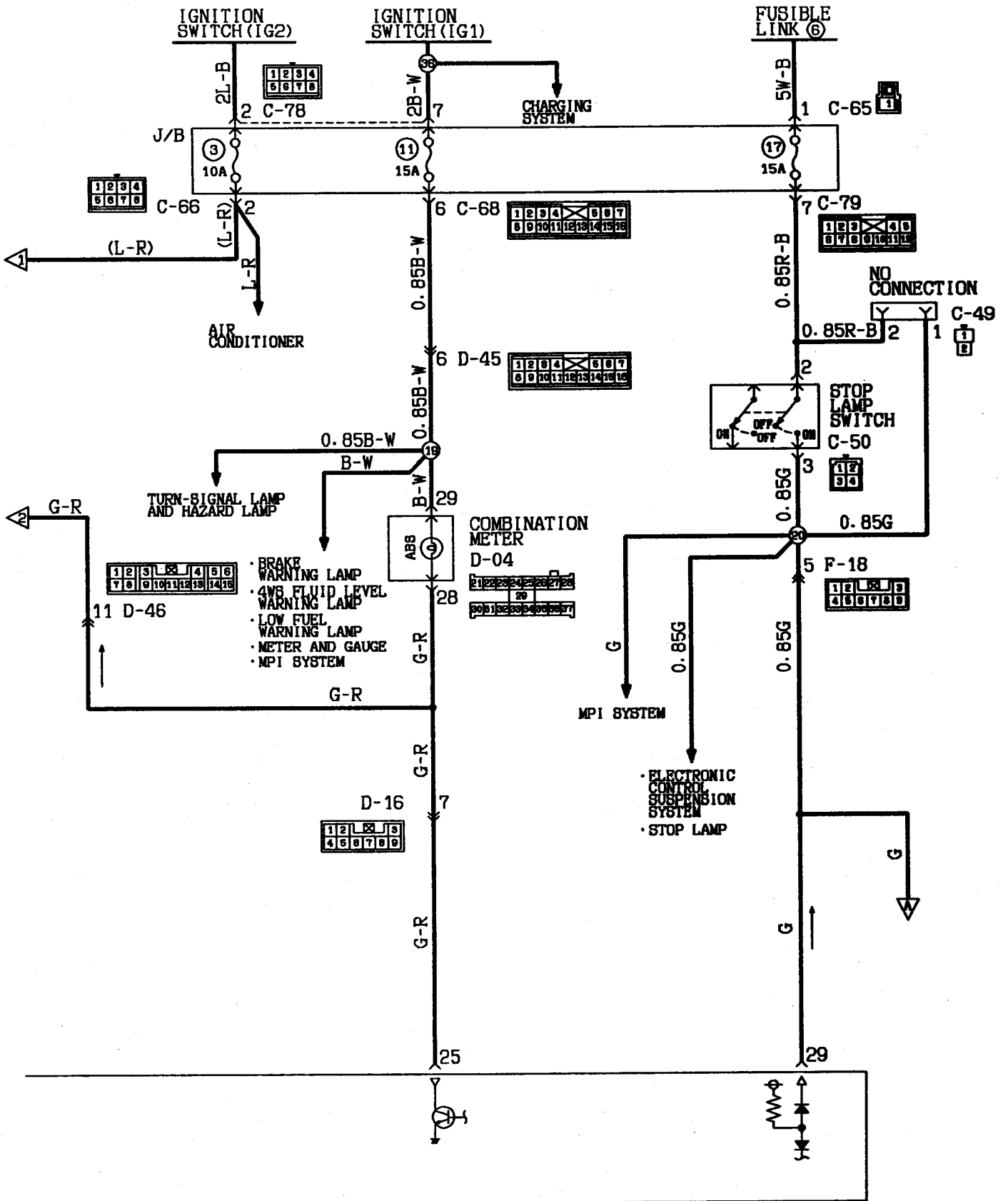


Remarks
 (1) *1: L. H. drive vehicles.
 (2) *2: R. H. drive vehicles.

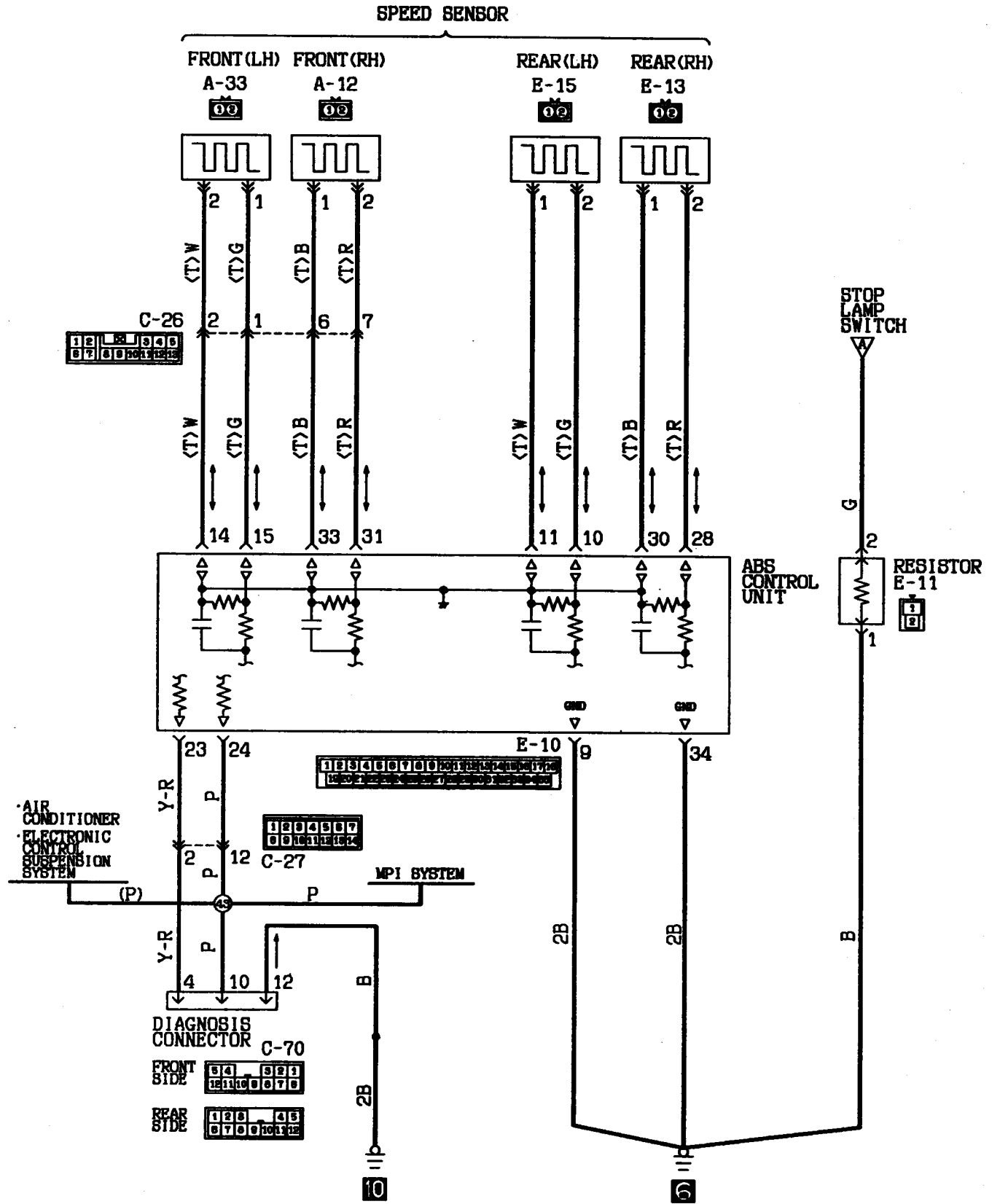
Wire colour code
 B:Black LG:Light green G:Green L:Blue W:White Y:Yellow SB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

ANTI-LOCK BRAKE SYSTEM (ABS) (L.H. drive vehicles)



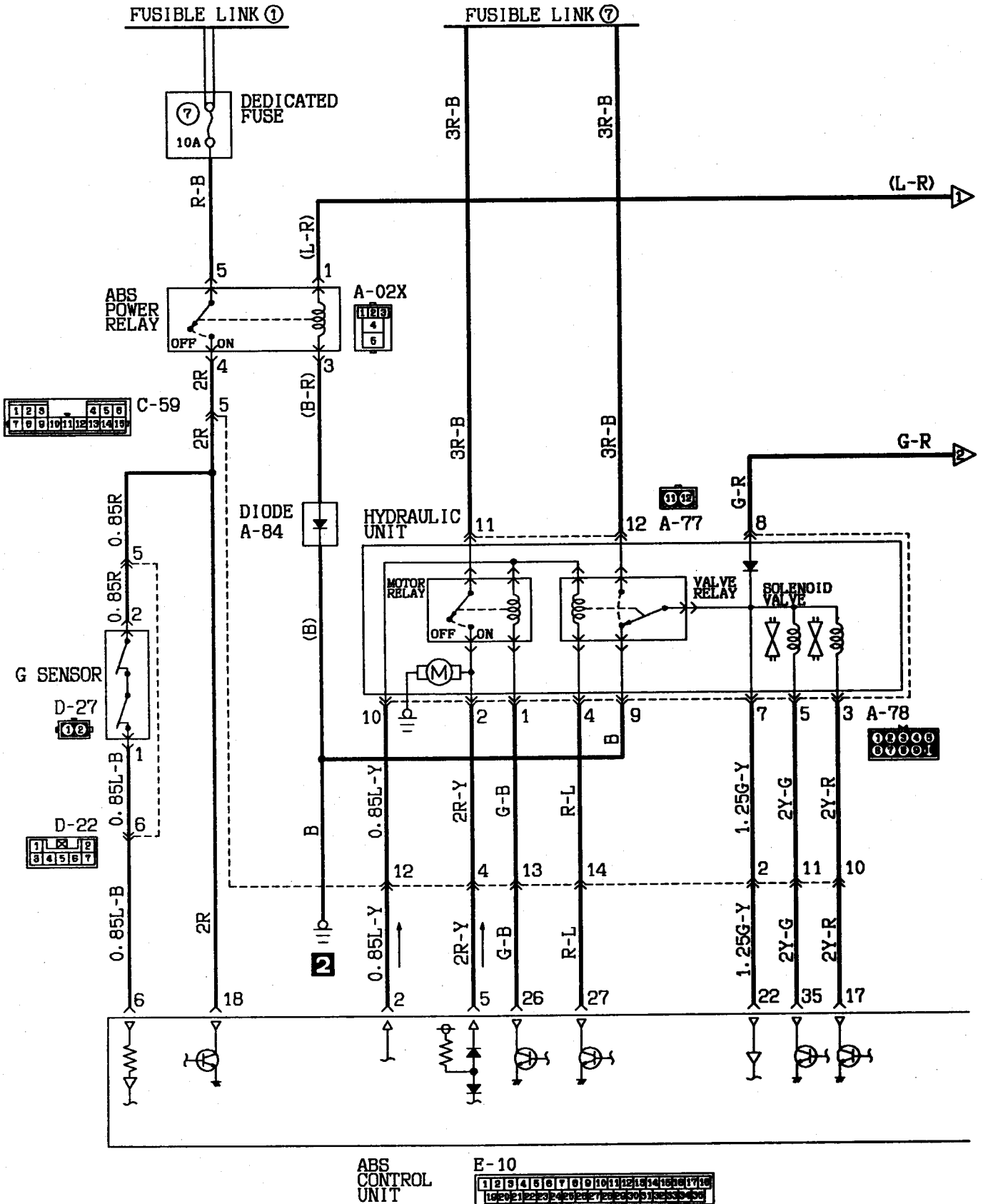


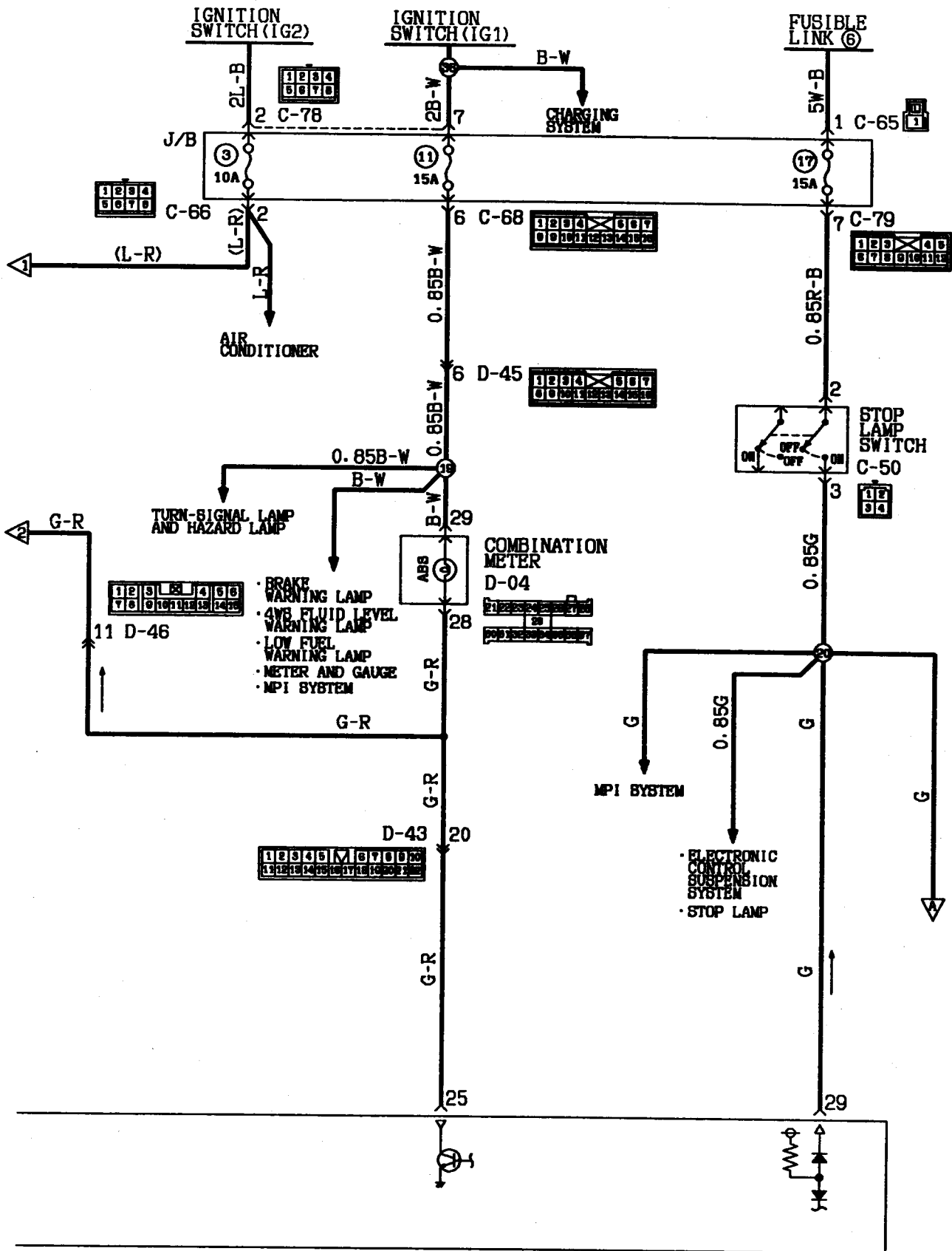
Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



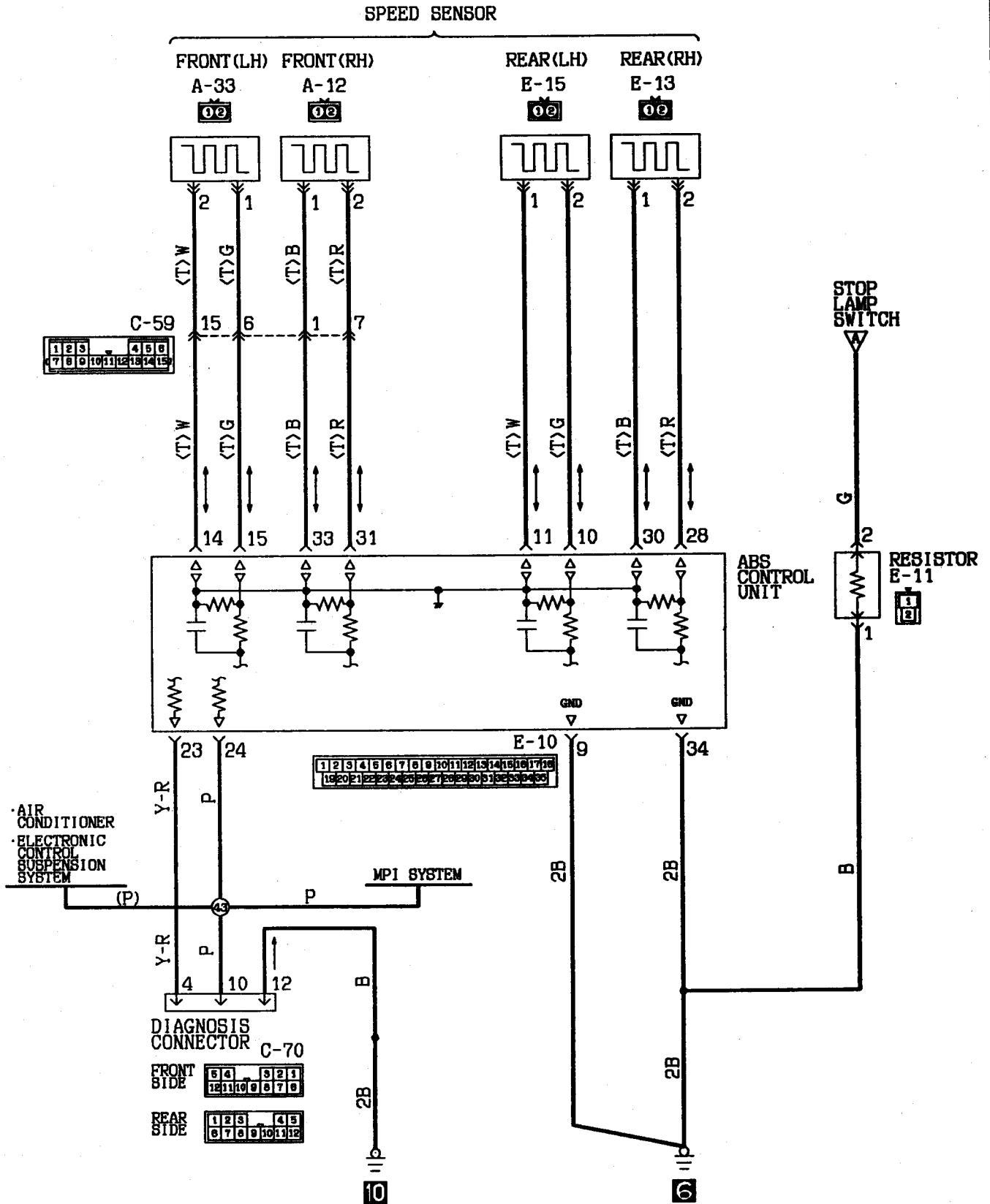
Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

ANTI-LOCK BRAKE SYSTEM (ABS)
 <R.H. drive vehicles>



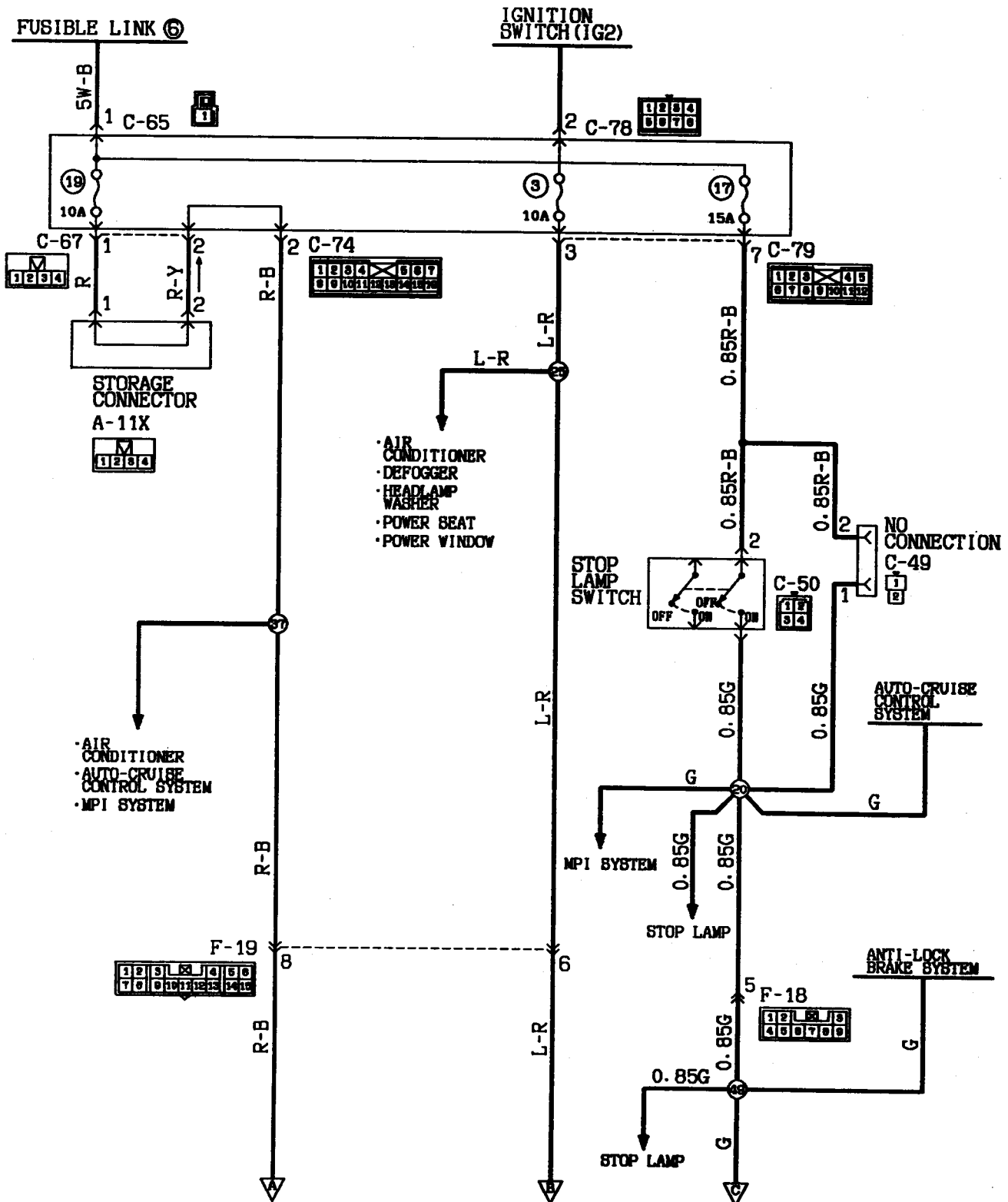


Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

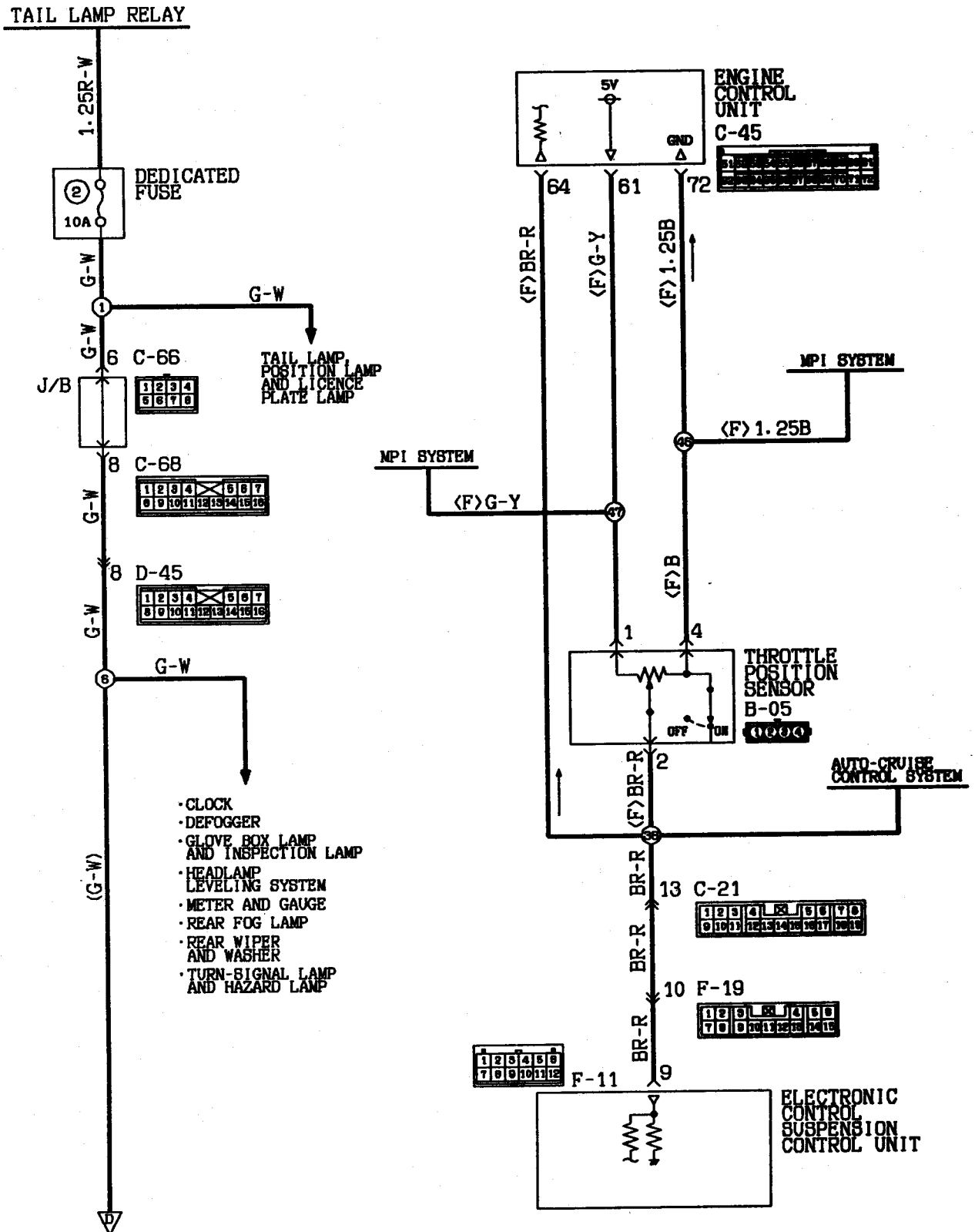


Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet SB:Sky blue

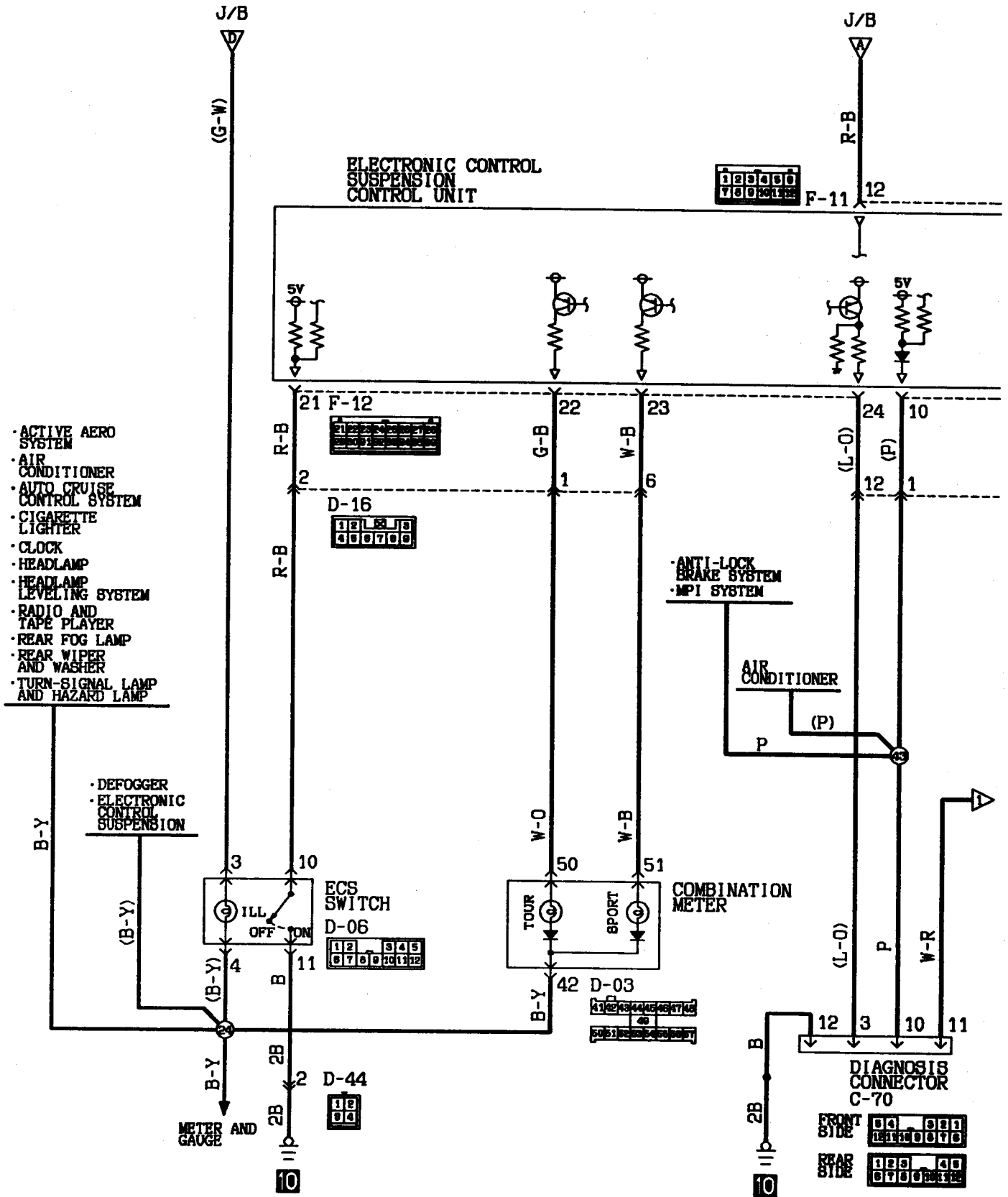
ELECTRONIC CONTROL SUSPENSION (ECS) SYSTEM (L.H. drive vehicles)

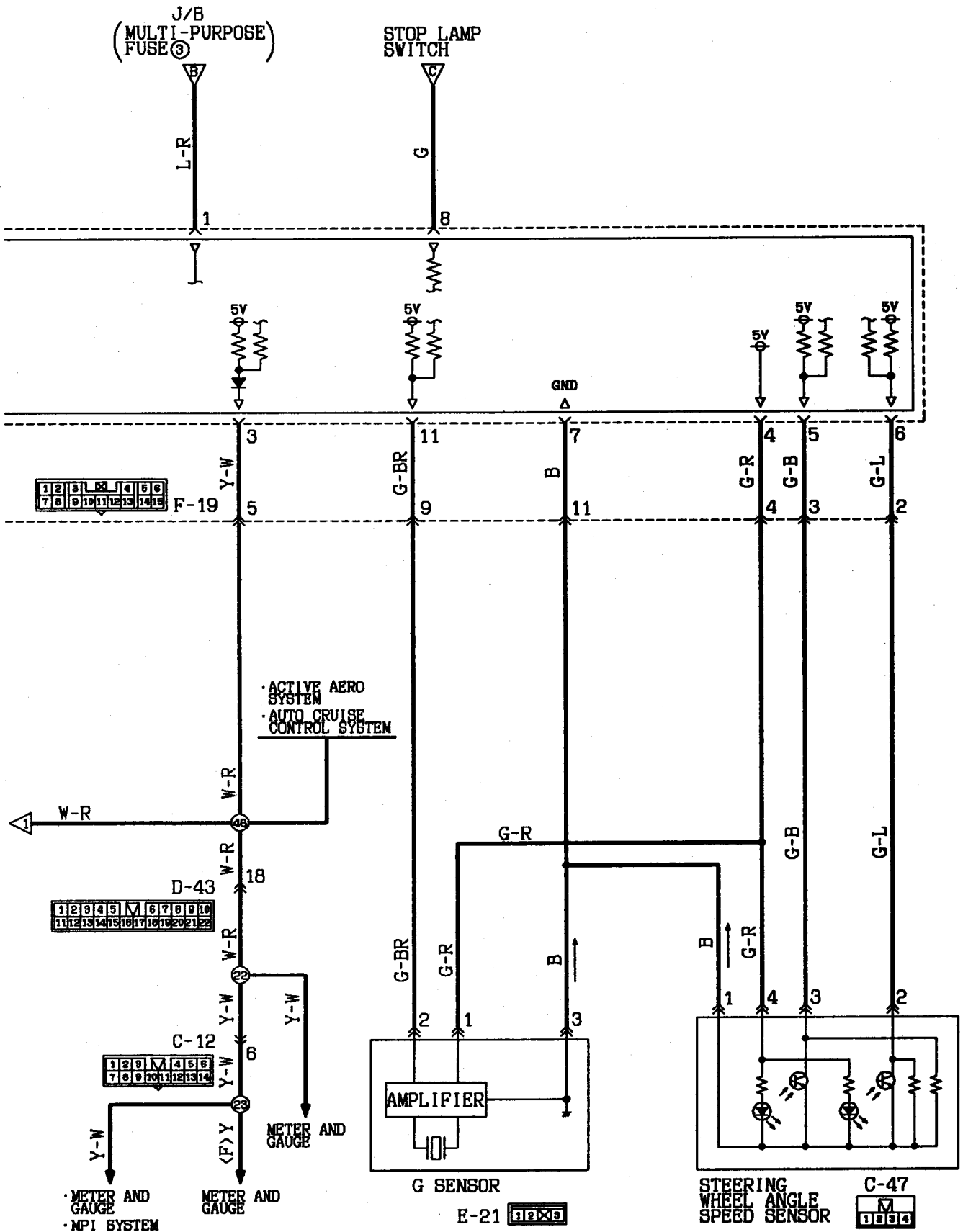


Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

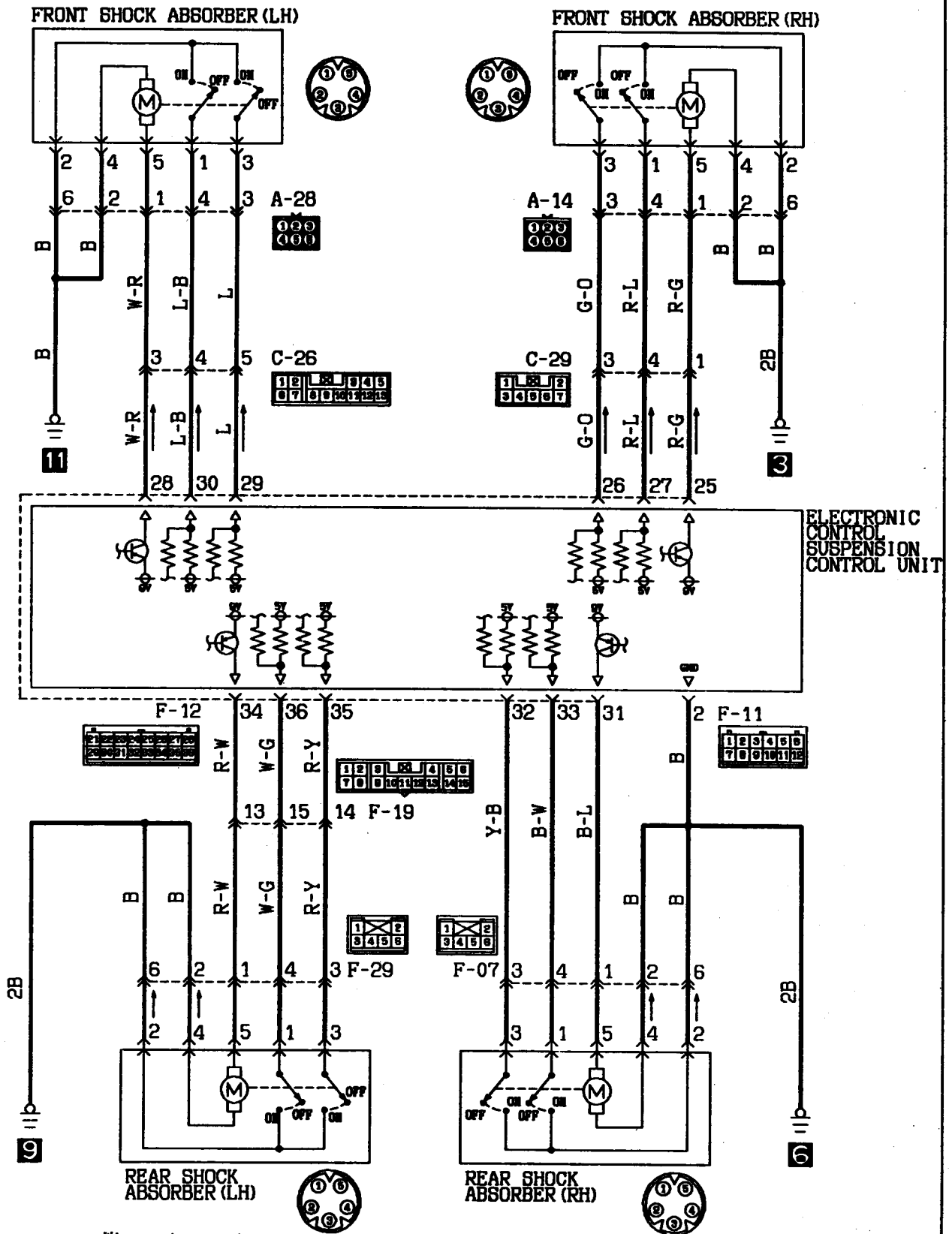


4-166 CIRCUIT DIAGRAM — Electronic Control Suspension (ECS) System

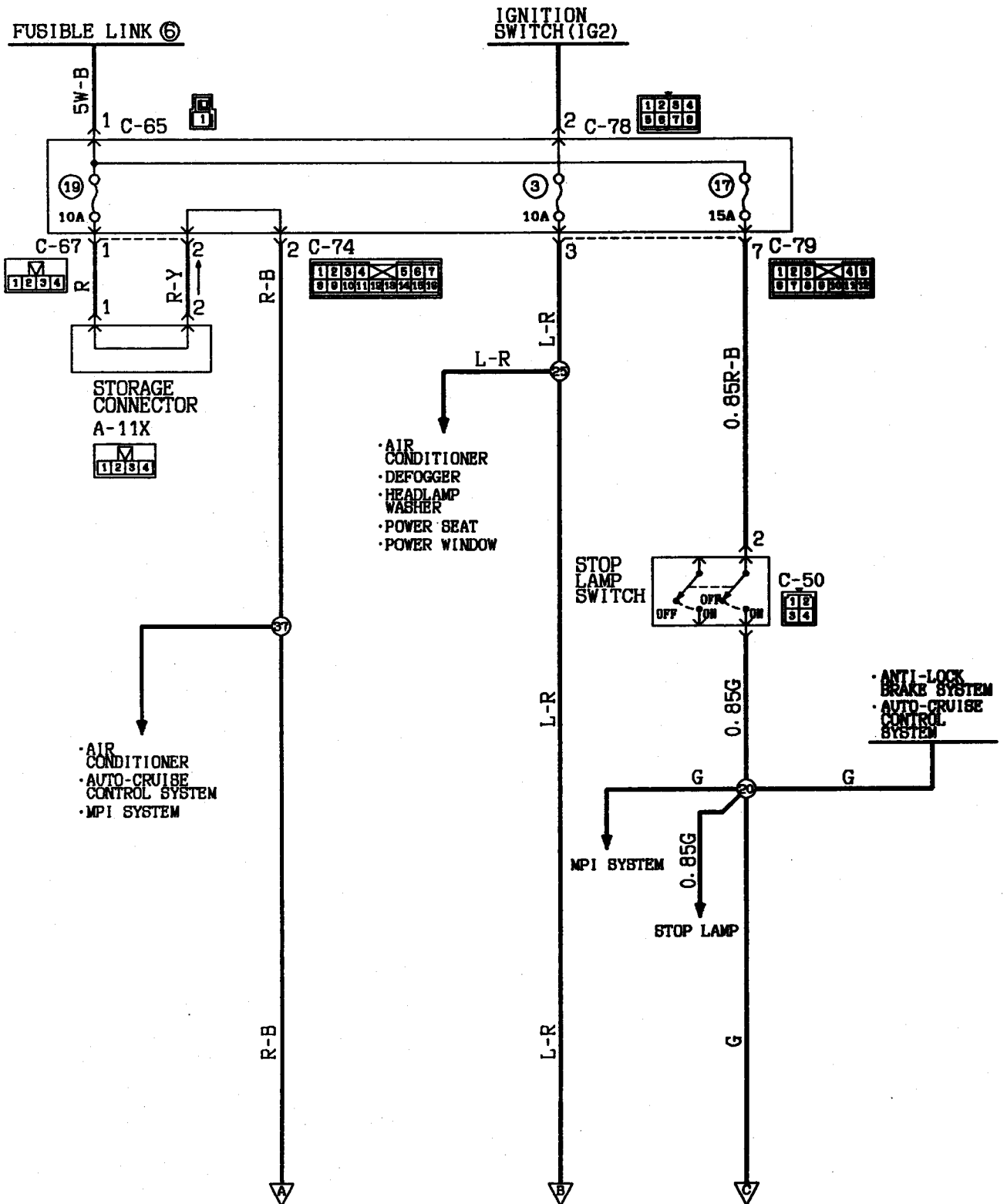




4-168 CIRCUIT DIAGRAM — Electronic Control Suspension (ECS) System

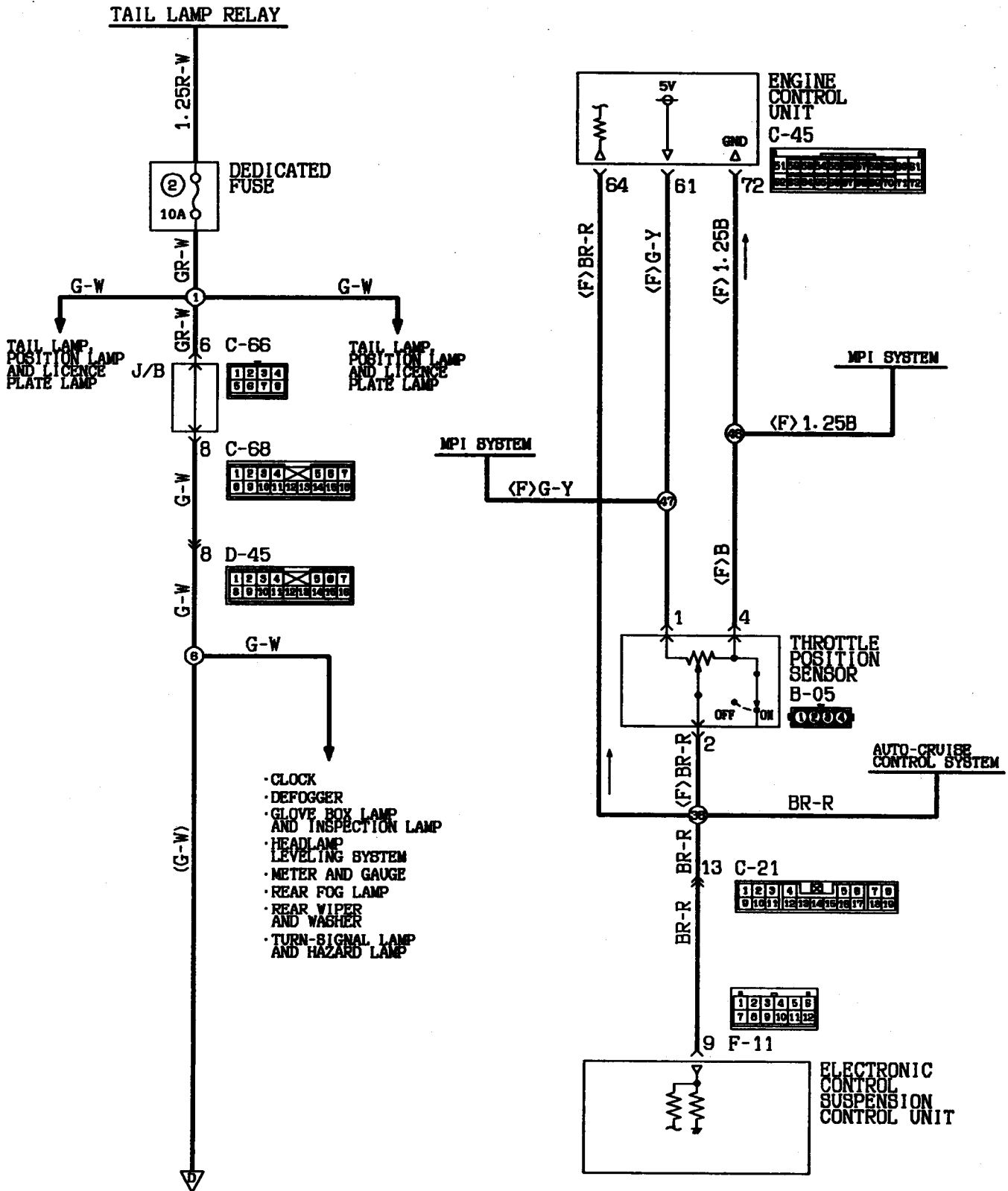


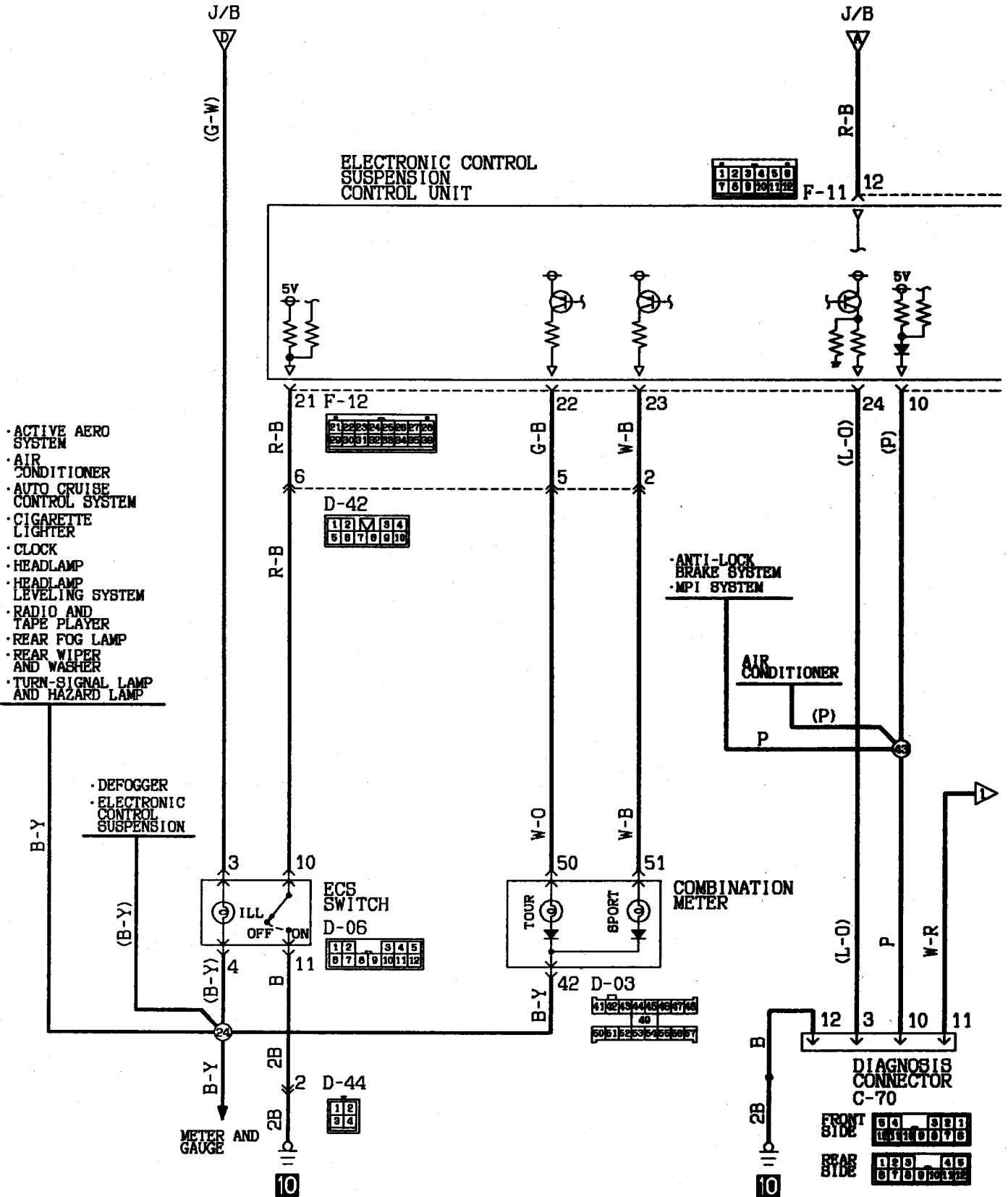
ELECTRONIC CONTROL SUSPENSION (ECS) SYSTEM (R. H. drive vehicles)



Wire colour code
 B:Black LG:Light green G:Green L:Blue V:White Y:Yellow BB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

4-170 CIRCUIT DIAGRAM — Electronic Control Suspension (ECS) System



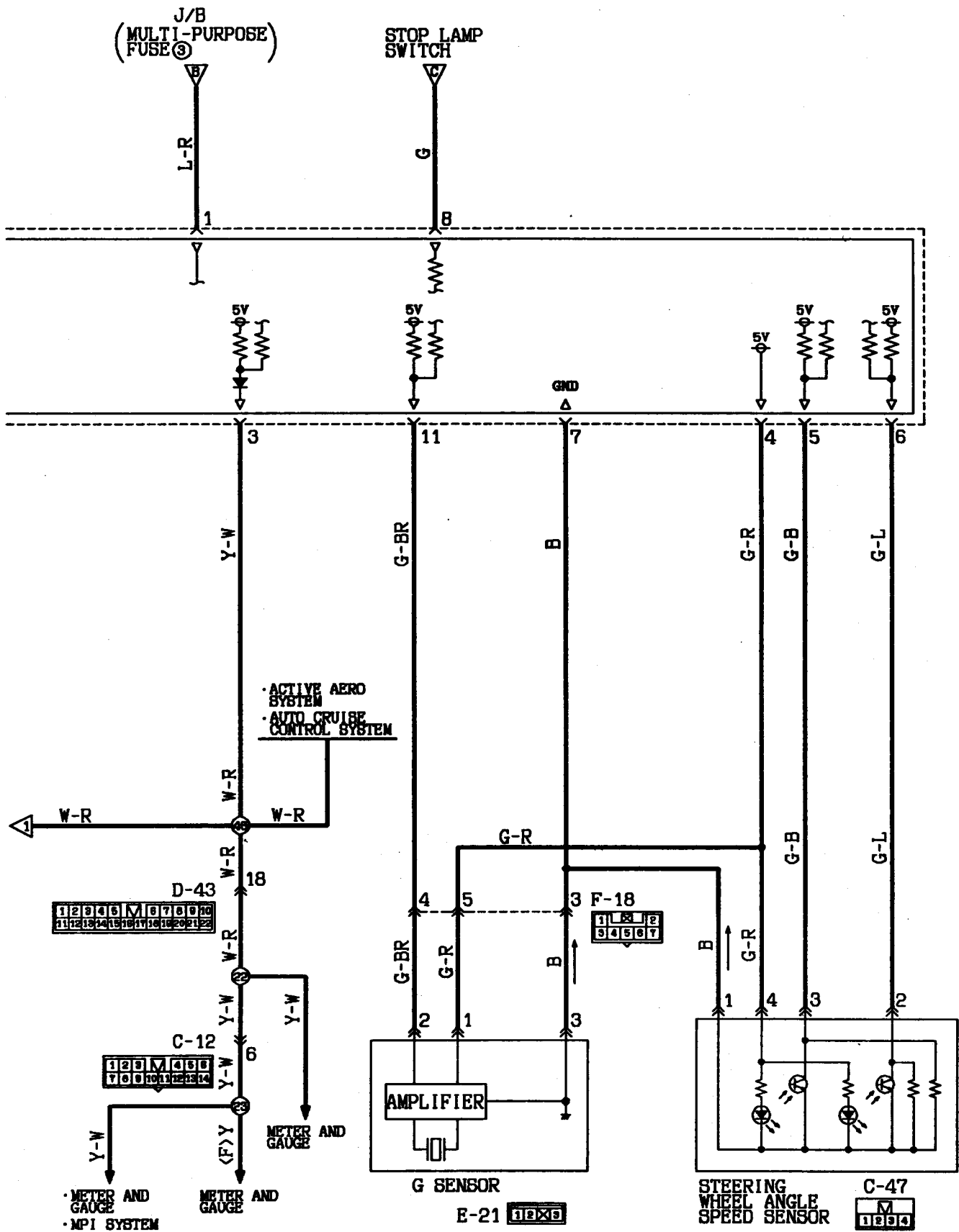


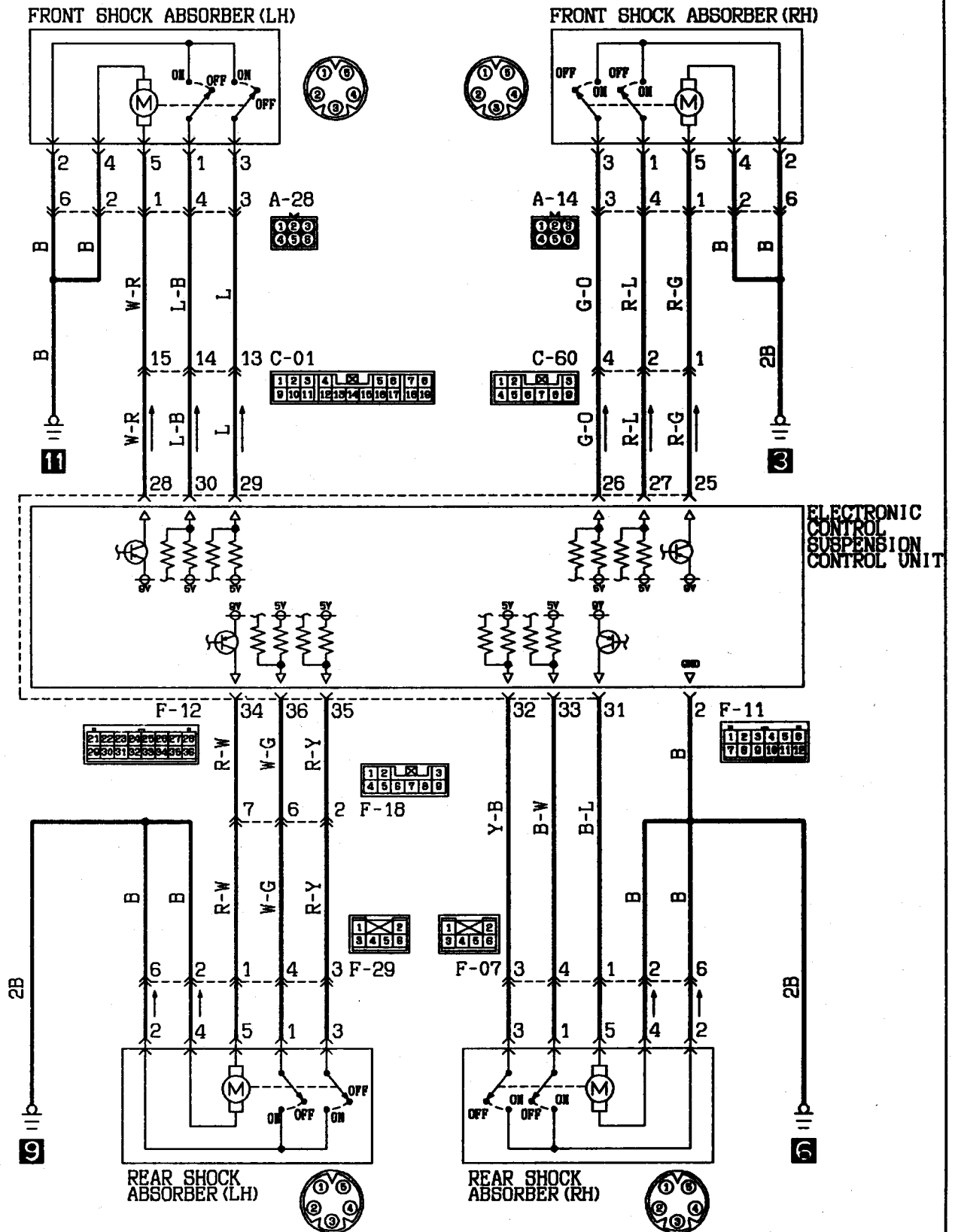
- ACTIVE AERO SYSTEM
- AIR CONDITIONER
- AUTO CRUISE CONTROL SYSTEM
- CIGARETTE LIGHTER
- CLOCK
- HEADLAMP
- HEADLAMP LEVELING SYSTEM
- RADIO AND TAPE PLAYER
- REAR FOG LAMP
- REAR WIPER AND WASHER
- TURN-SIGNAL LAMP AND HAZARD LAMP

- DEFROGGER
- ELECTRONIC CONTROL SUSPENSION

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

4-172 CIRCUIT DIAGRAM — Electronic Control Suspension (ECS) System

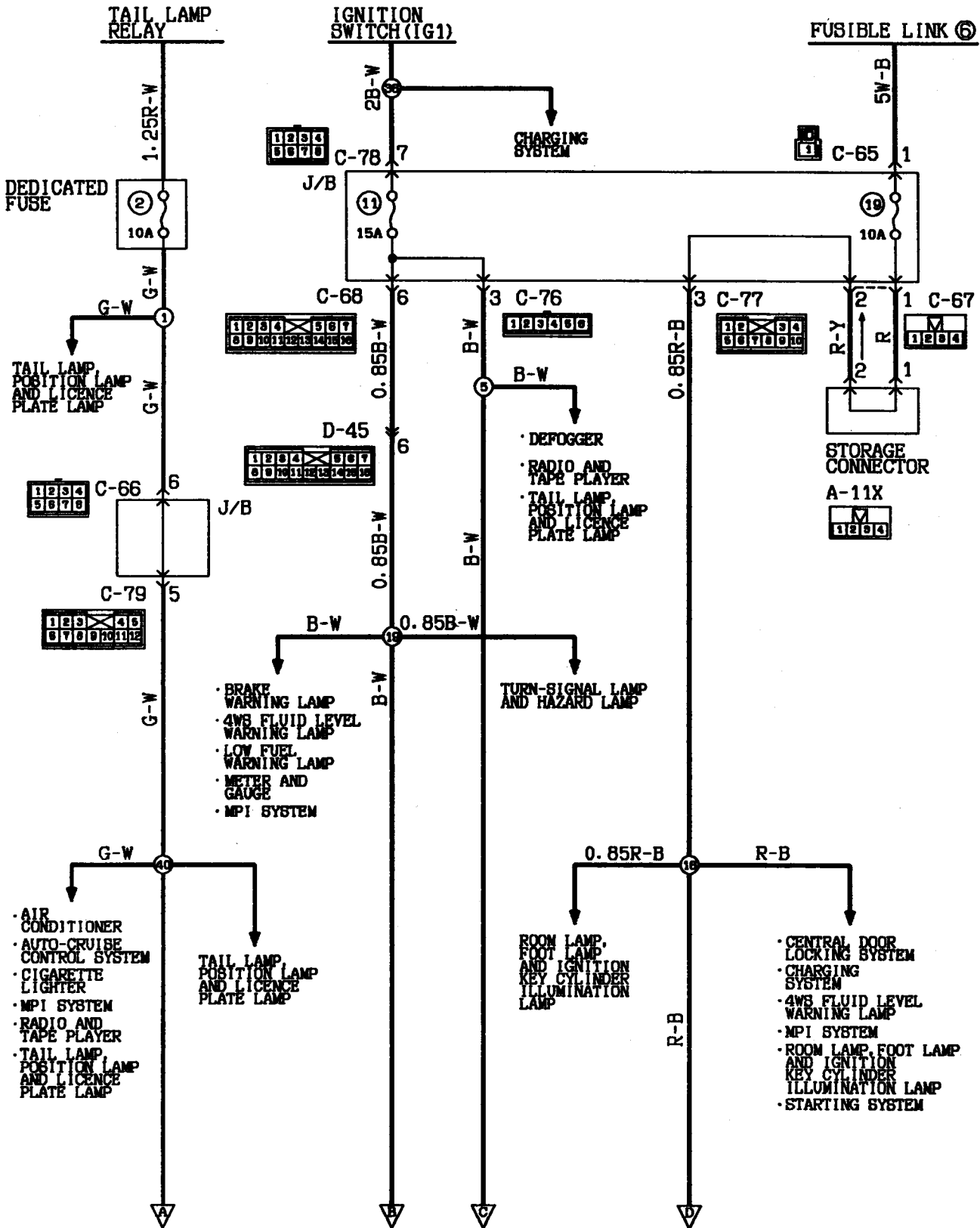




Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

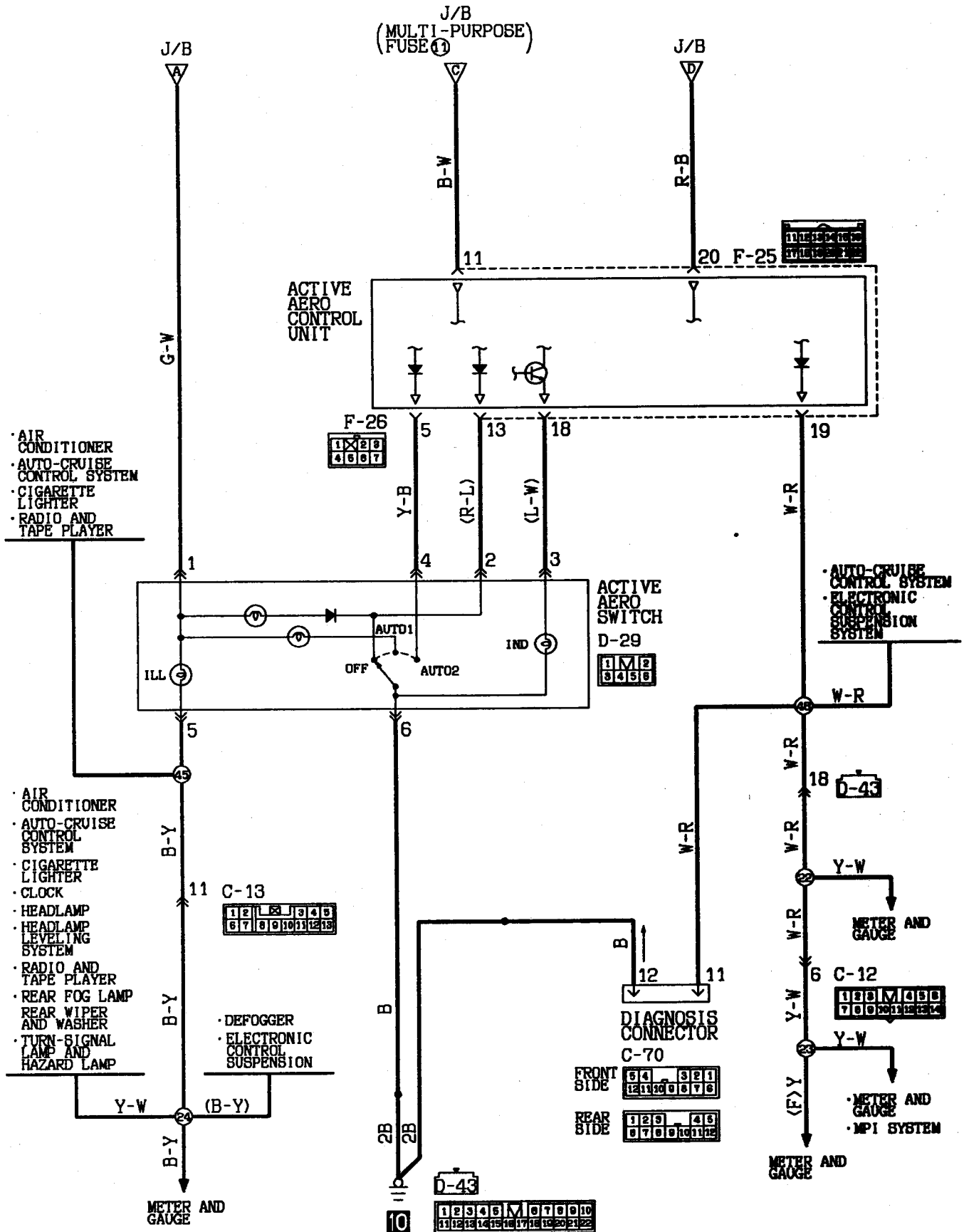
ACTIVE AERO SYSTEM

<L.H. drive vehicles without theft-alarm system>



Wire colour code

B:Black LG:Light green G:Green L:Blue W:White Y:Yellow BB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



Wire colour code

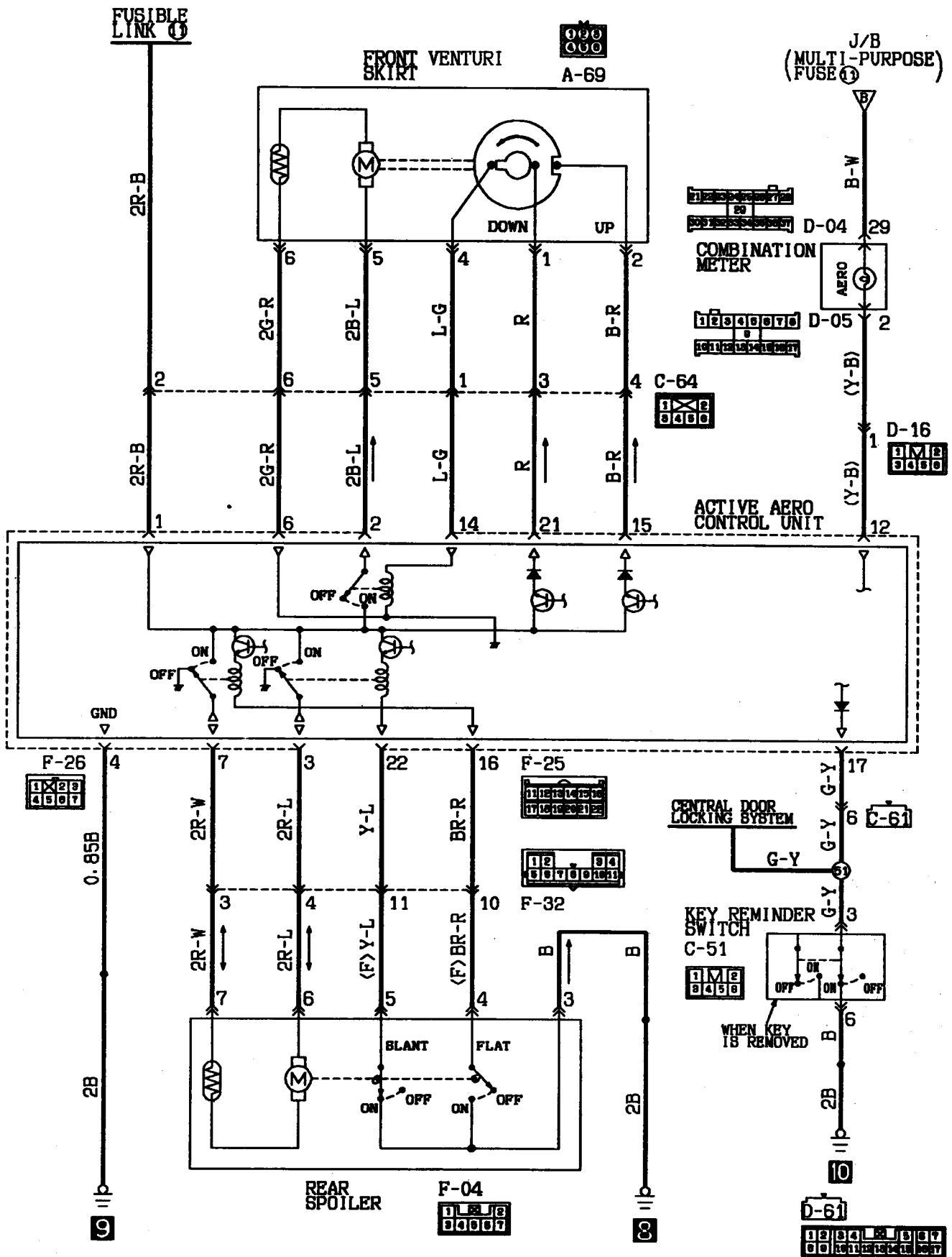
B:Black LG:Light green G:Green L:Blue

BR:Brown O:Orange GR:Gray R:Red

W:White Y:Yellow

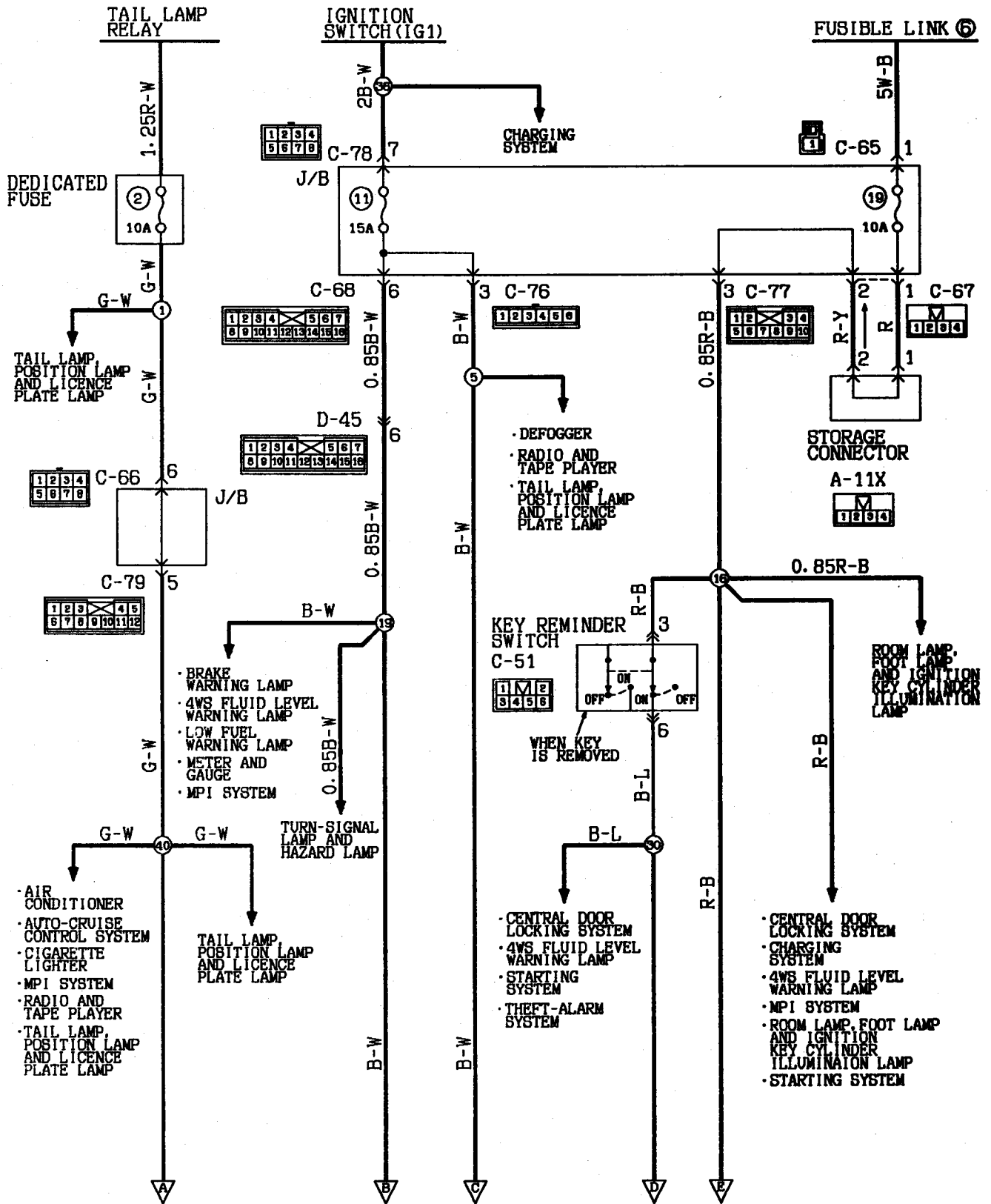
P:Pink V:Violet

BB:Sky blue

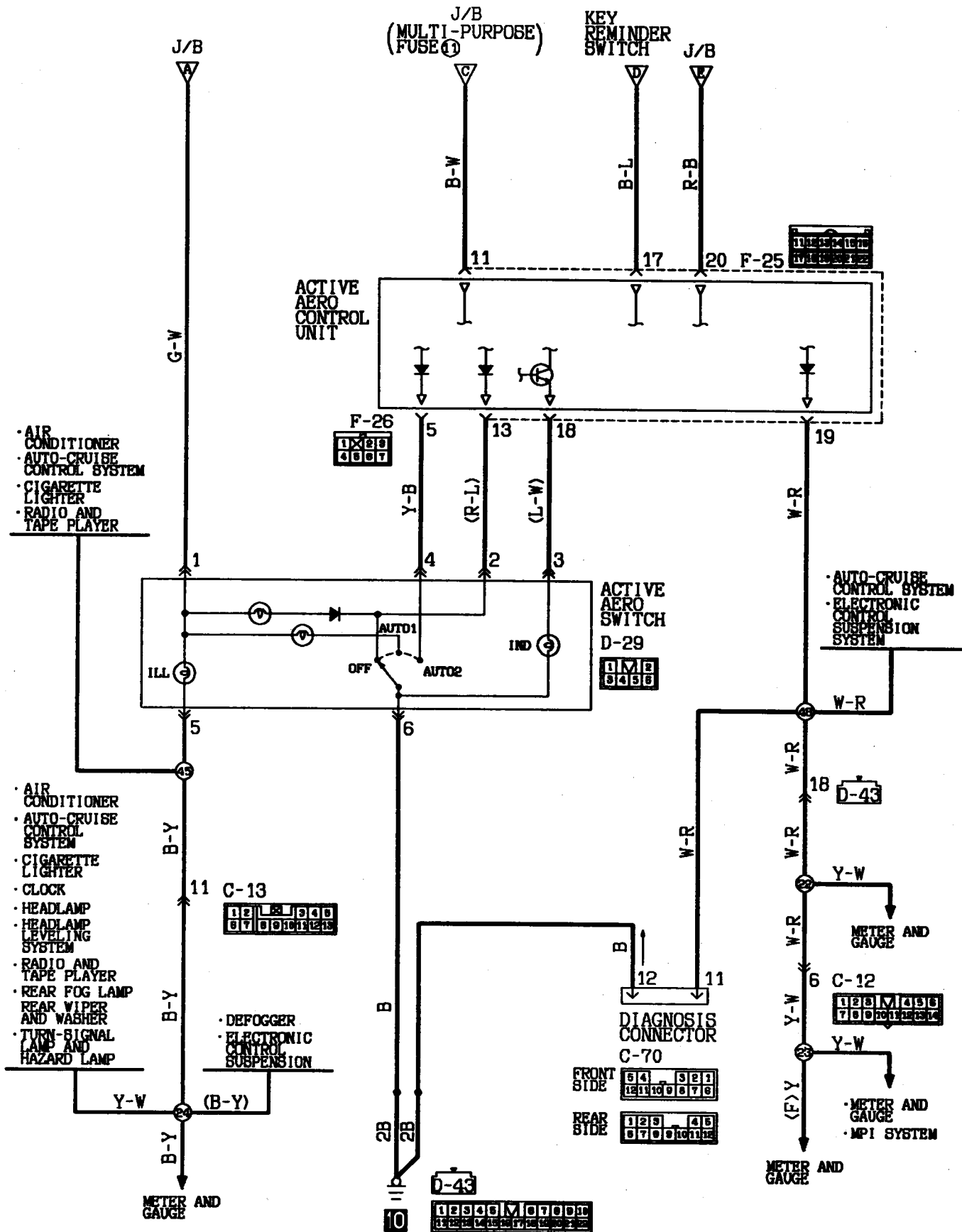


ACTIVE AERO SYSTEM

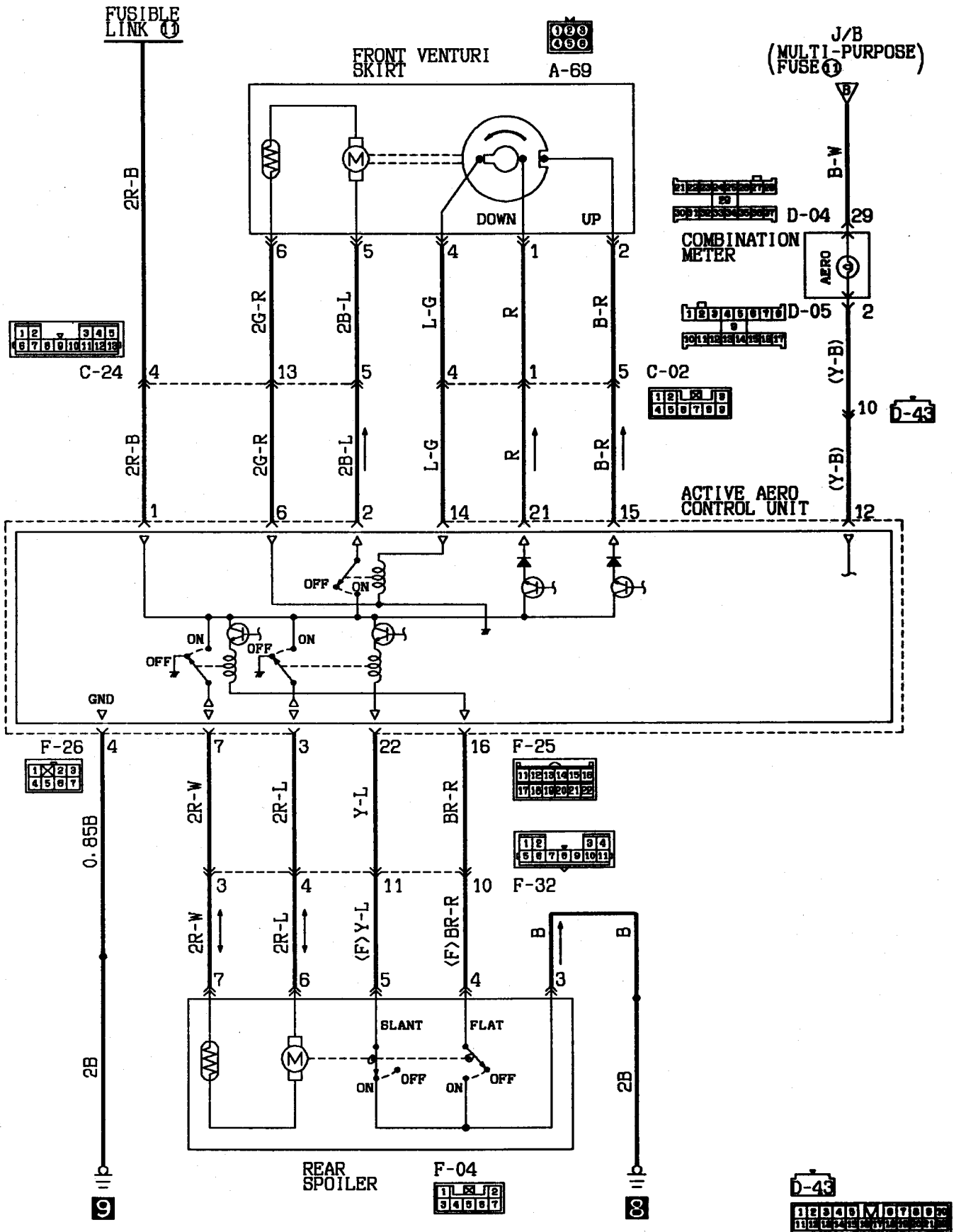
(L.H. drive vehicles with theft-alarm system)



Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

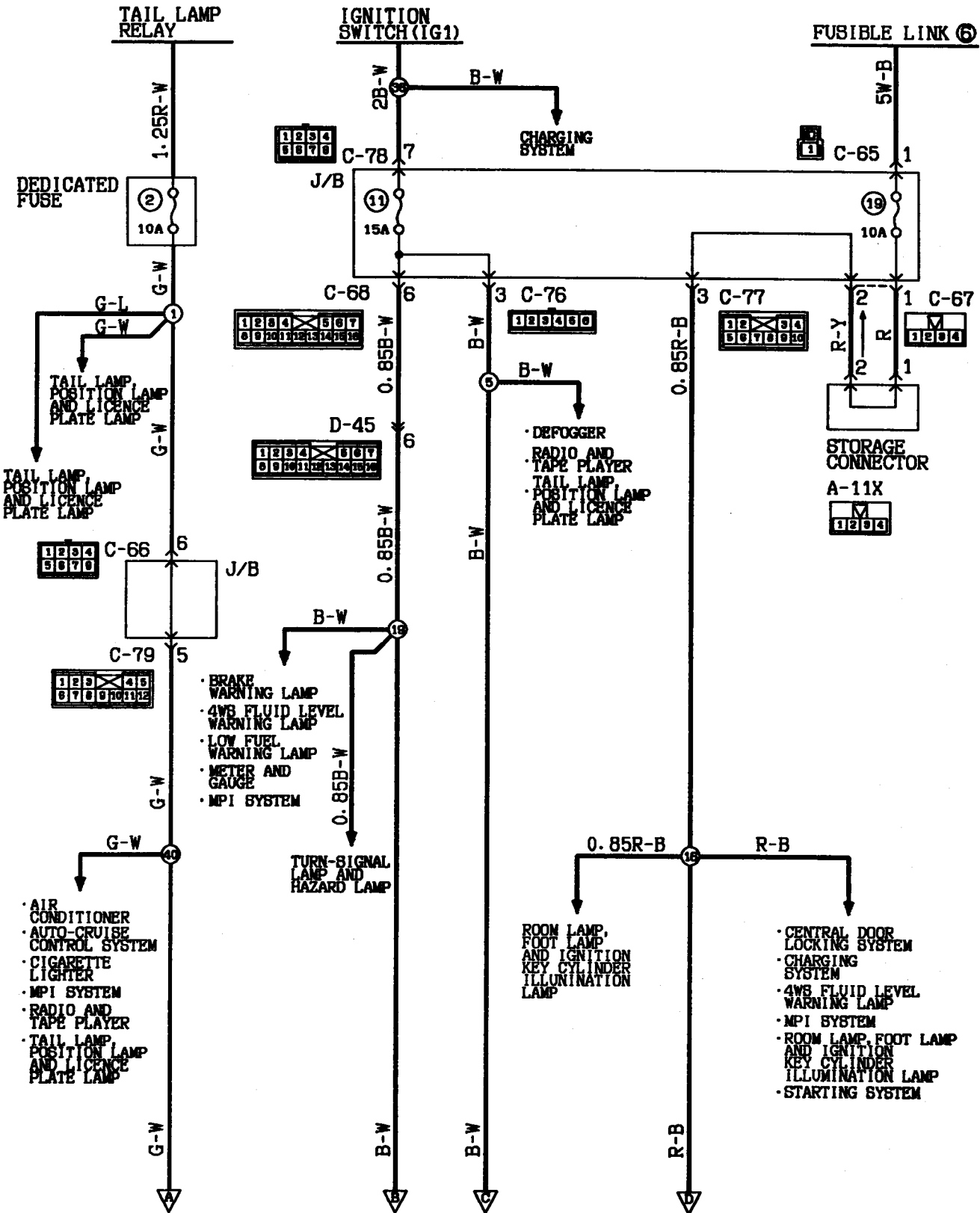


Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



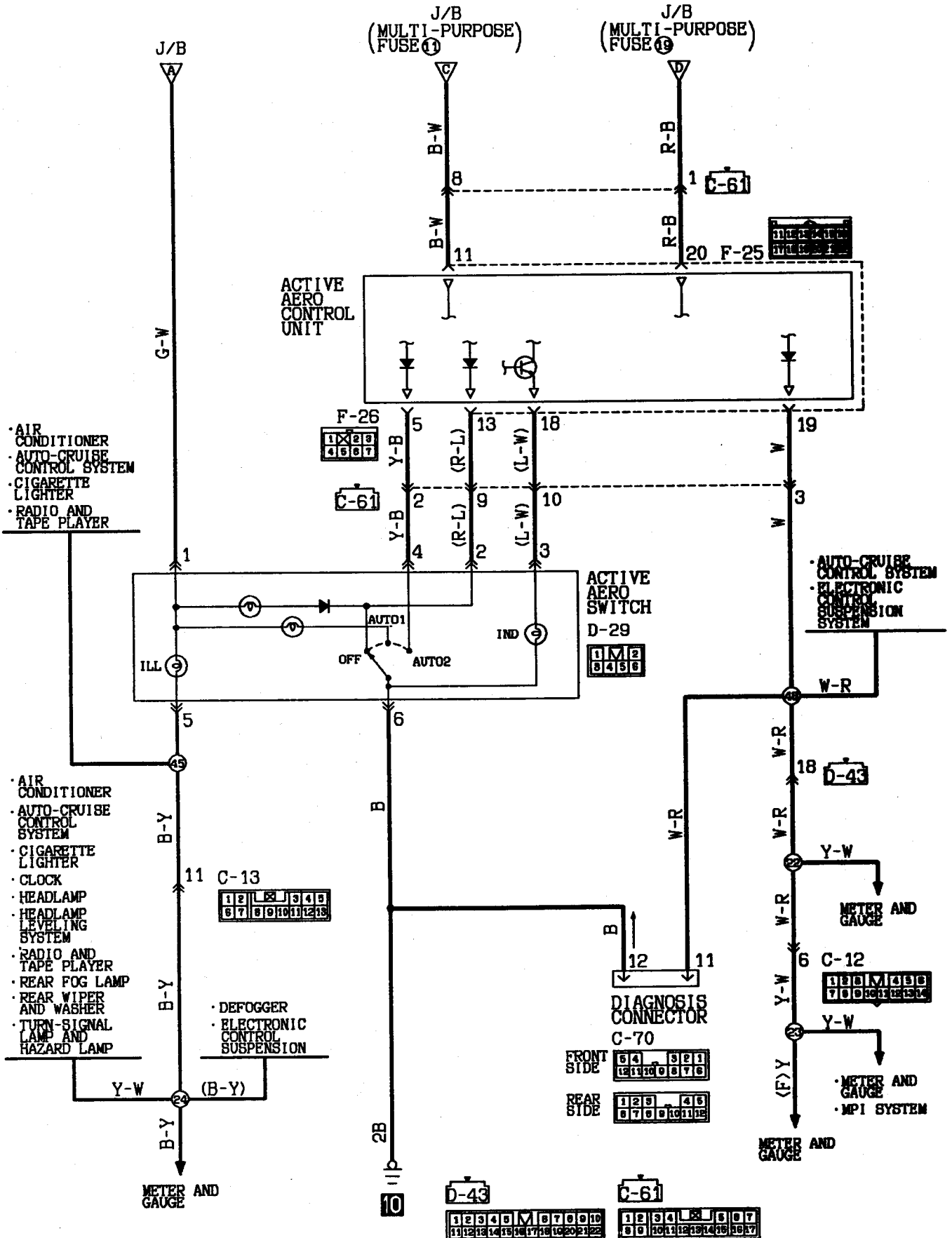
ACTIVE AERO SYSTEM

(R. H. drive vehicles without theft-alarm system)

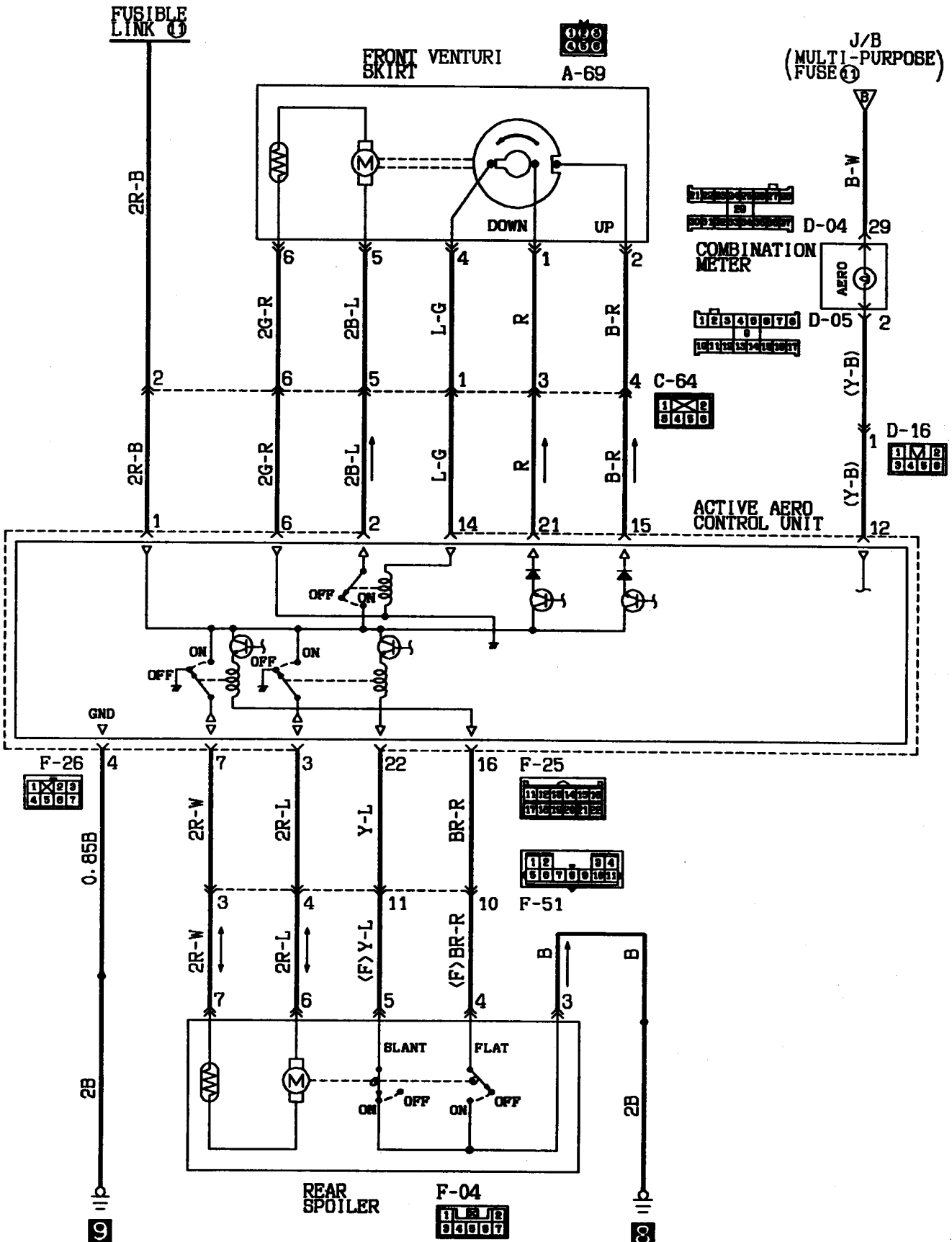


Wire colour code

B:Black LG:Light green G:Green L:Blue W:White Y:Yellow BB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

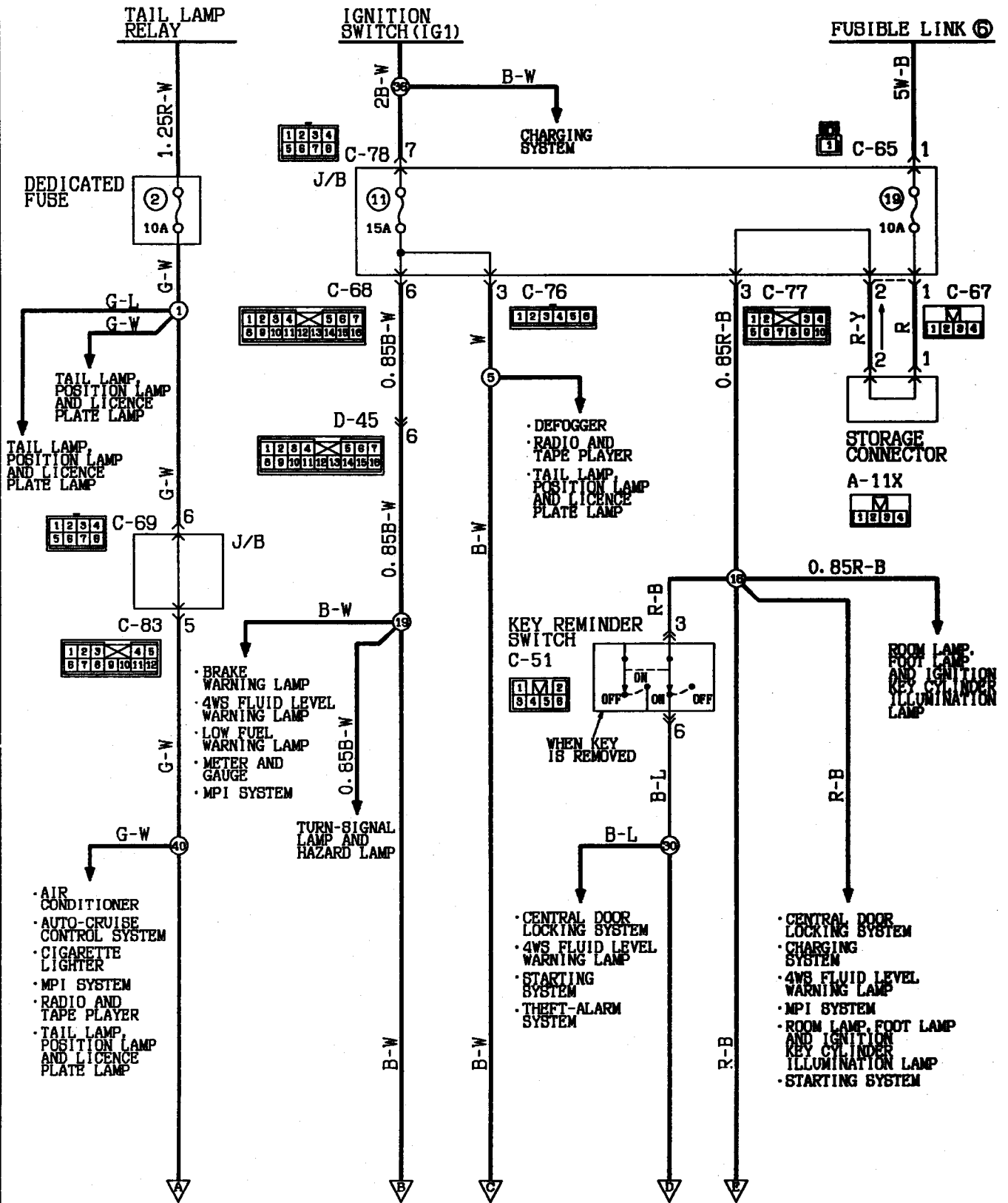


Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

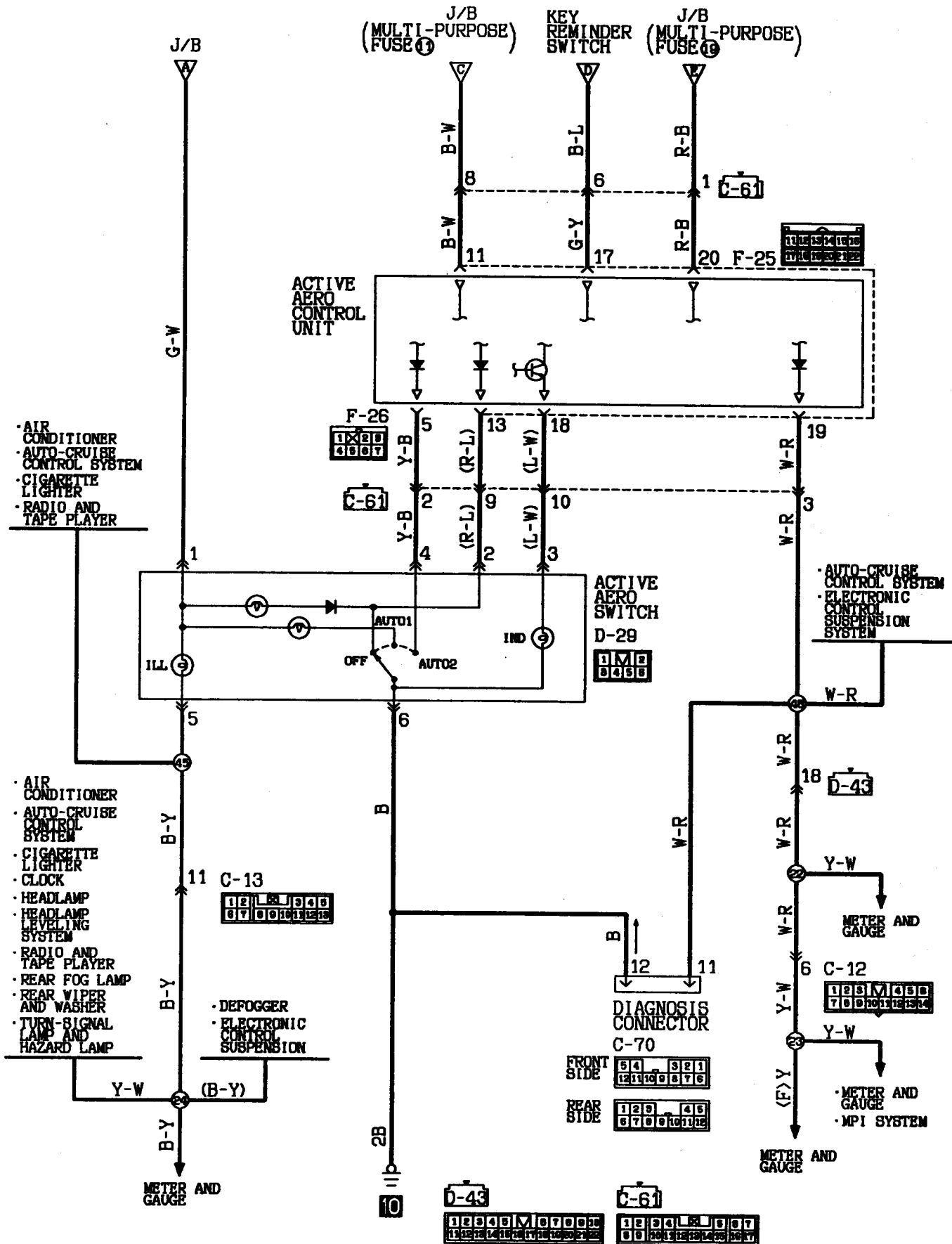


ACTIVE AERO SYSTEM

<R. H. drive vehicles with theft-alarm system>



Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



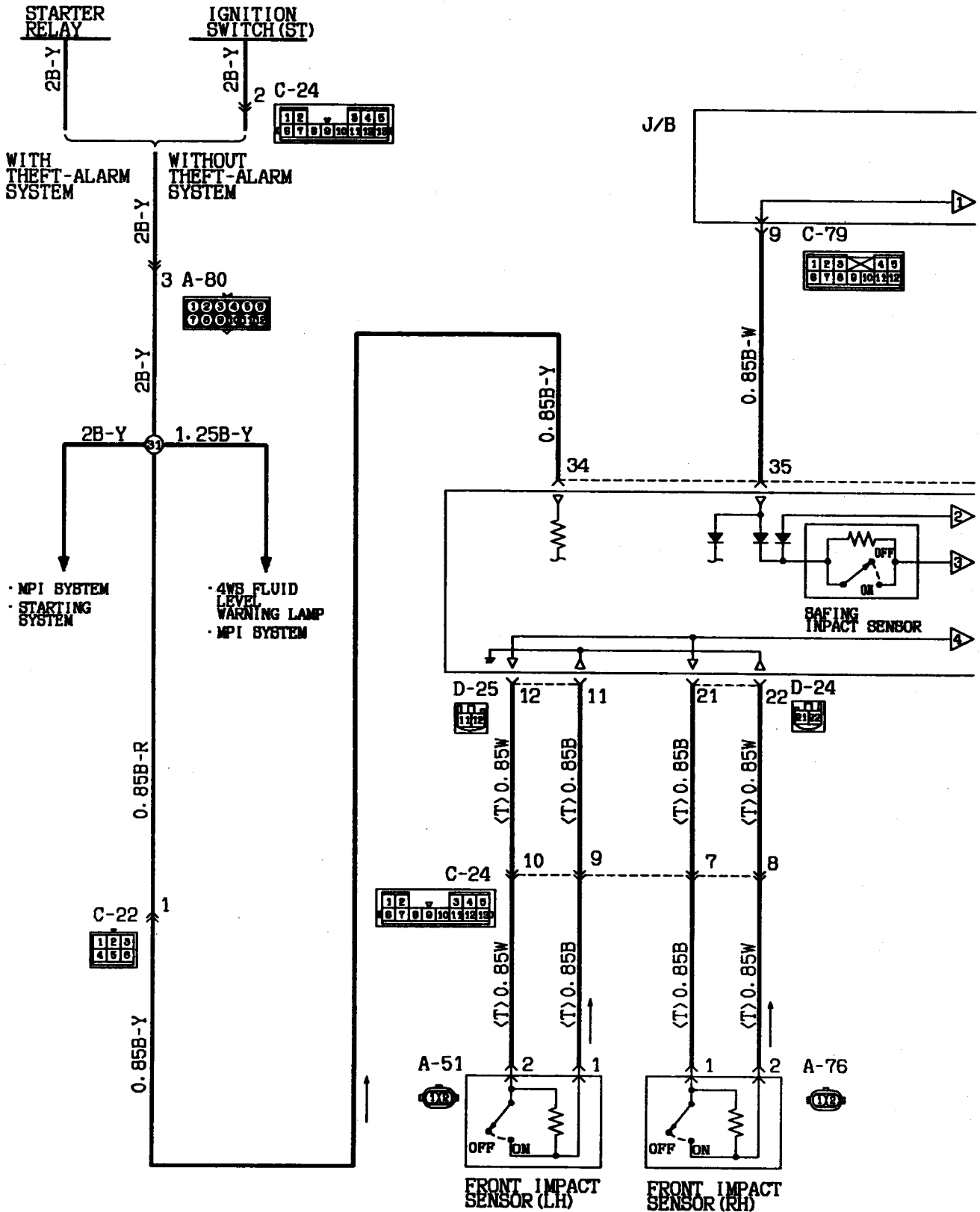
Wire colour code

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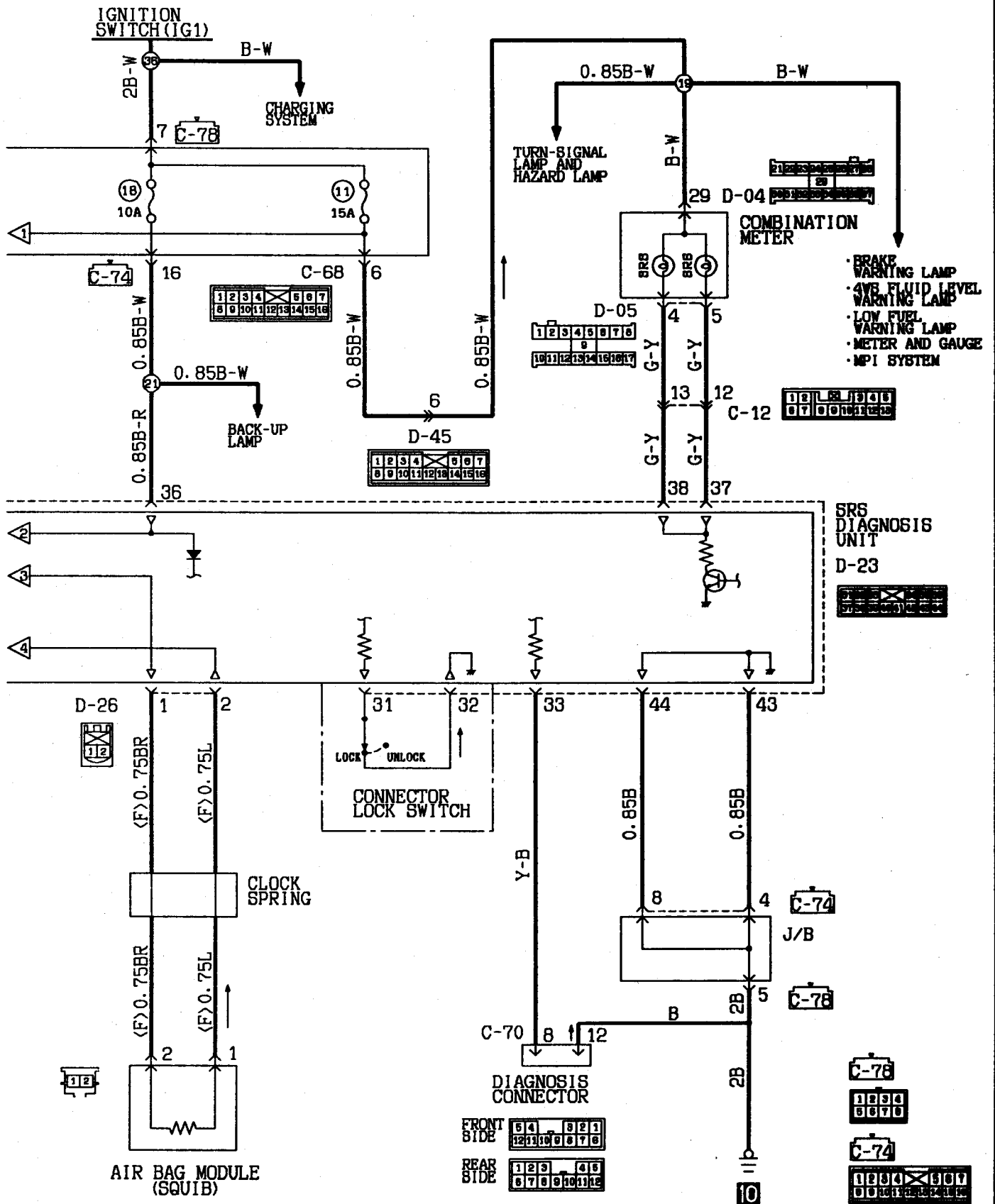
BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

SB:Sky blue

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)
(L.H. drive vehicles)



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

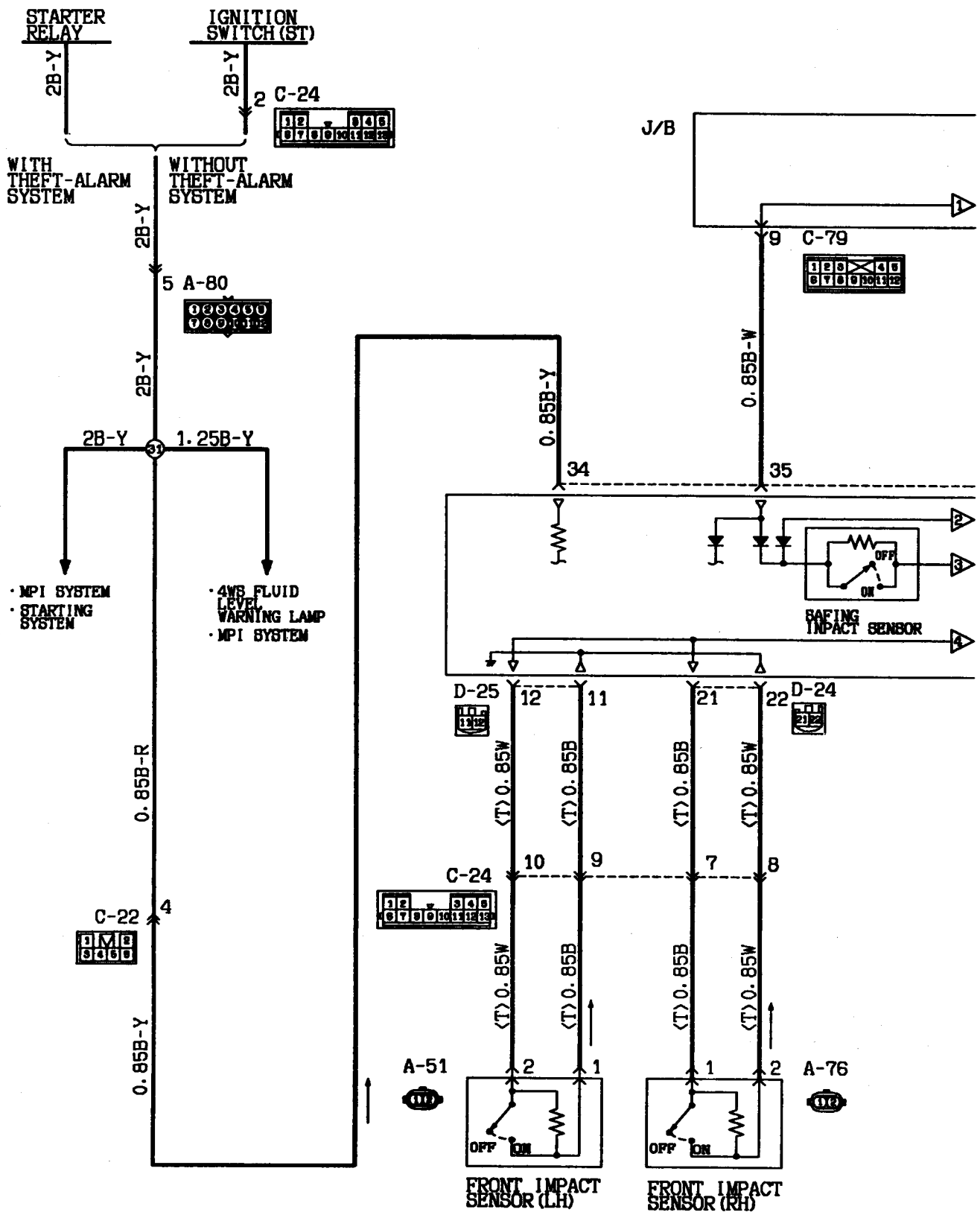


- BRAKE WARNING LAMP
- 4WS FLUID LEVEL WARNING LAMP
- LOW FUEL WARNING LAMP
- METER AND GAUGE
- MPI SYSTEM

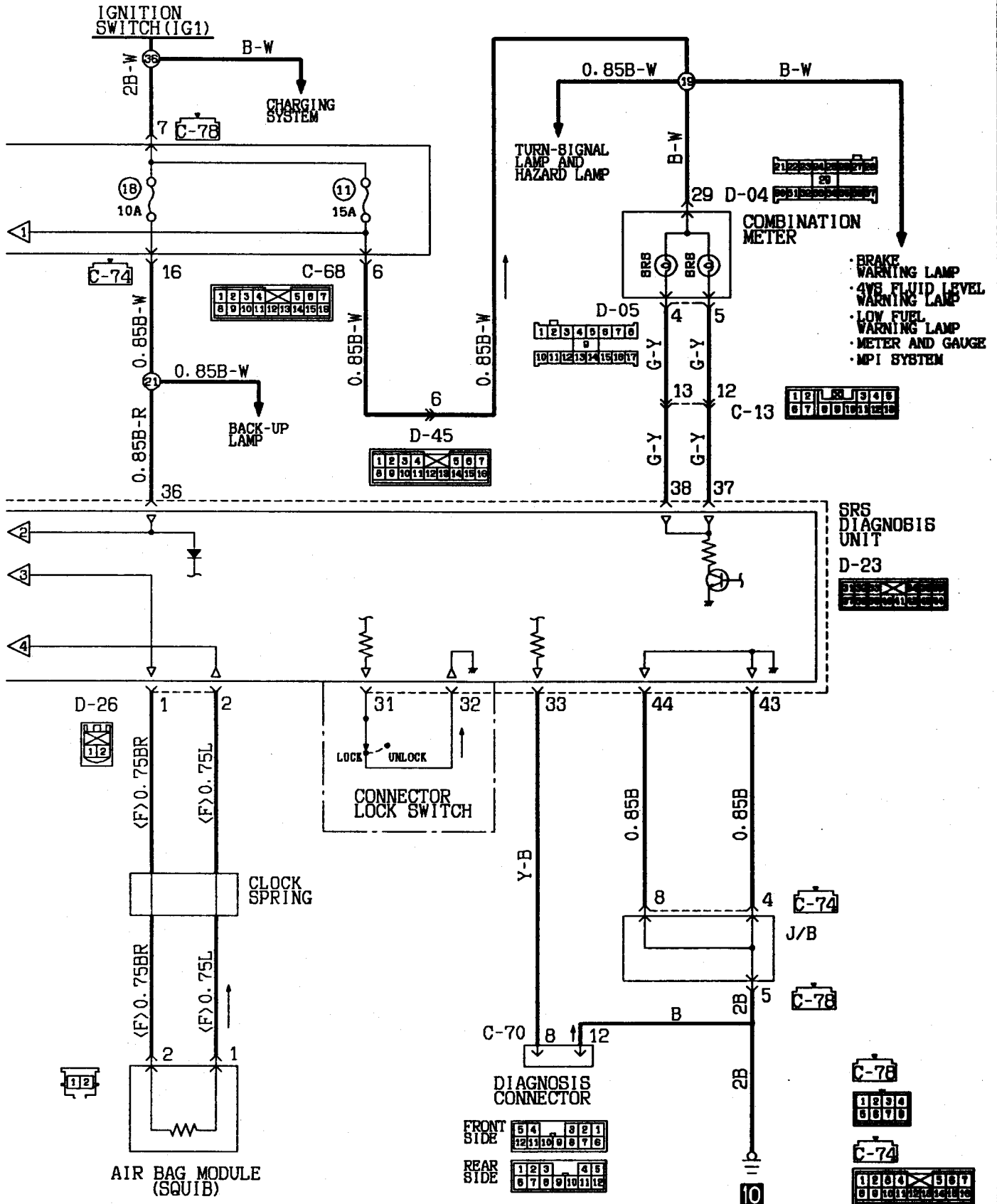
CAUTION
 Carefully read and observe the SRS SERVICE PRECAUTIONS (Refer to WORKSHOP MANUAL (Pub. No. PWUE9119) SRS Service Precautions) prior to any service.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

(R. H. drive vehicles)



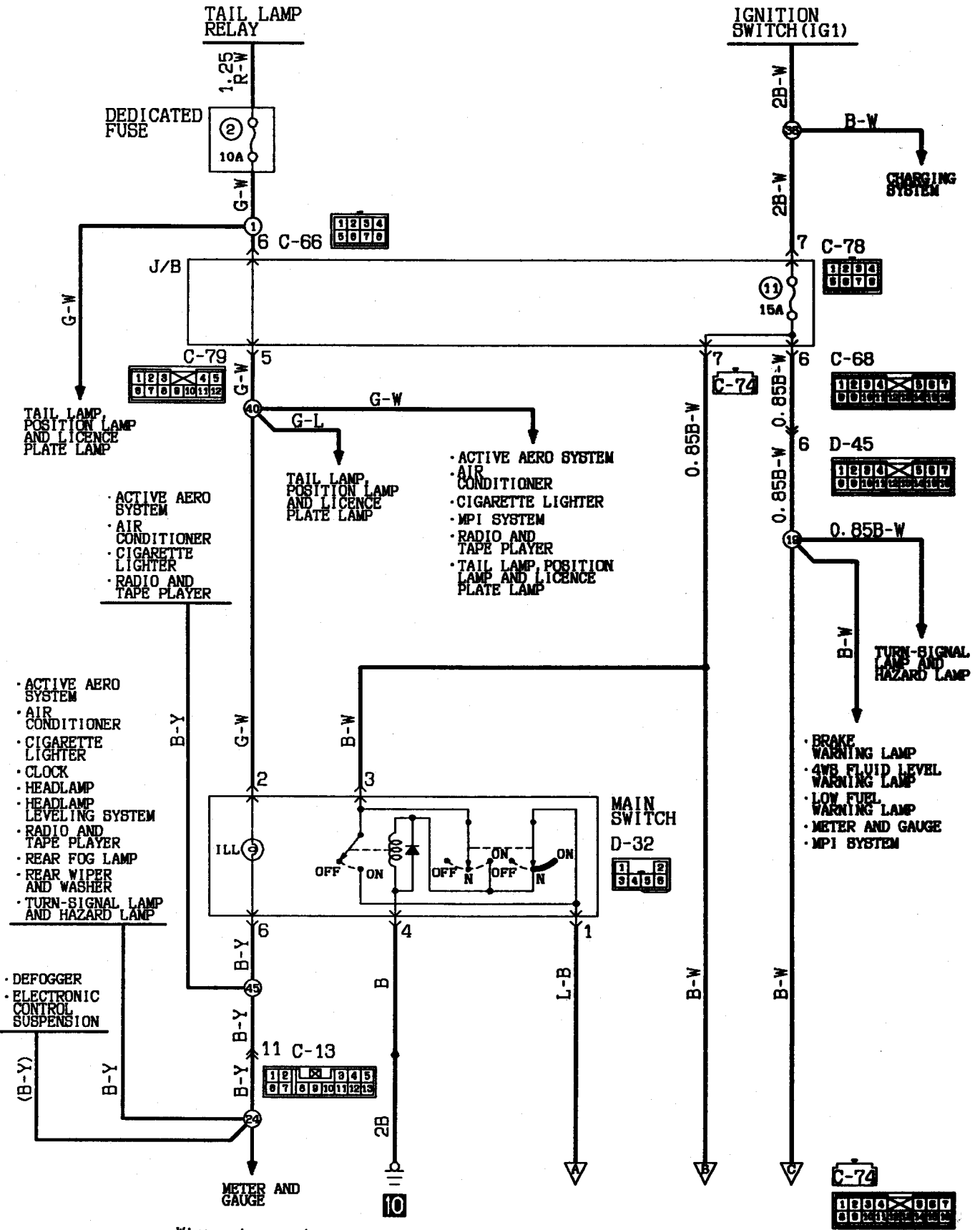
Wire colour code
 B:Black LG:Light green G:Green L:Blue V:White Y:Yellow SB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



CAUTION
 Carefully read and observe the SRS SERVICE PRECAUTIONS (Refer to WORKSHOP MANUAL (Pub. No. PWUE9119) SRS Service Precautions) prior to any service.

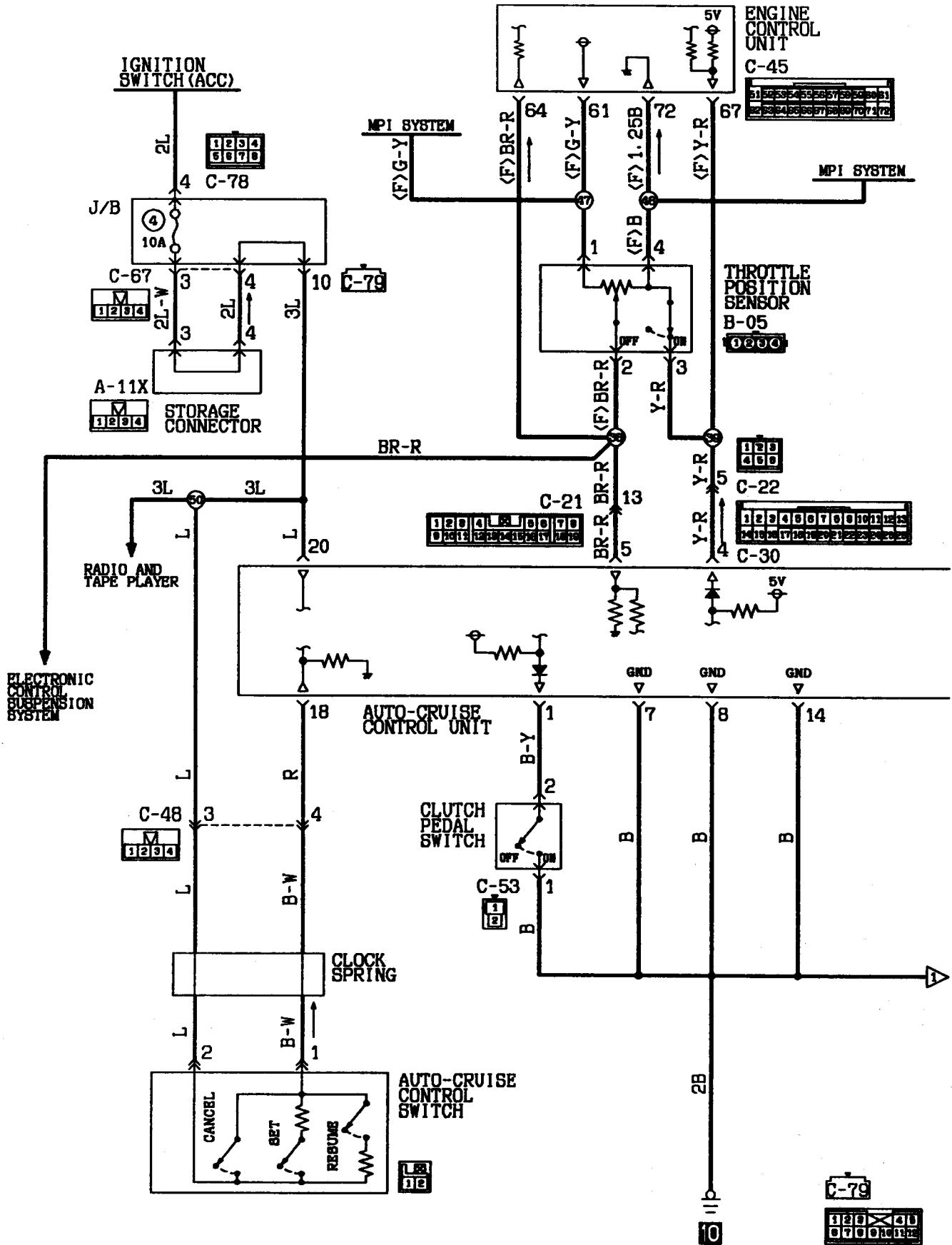
AUTO-CRUISE CONTROL SYSTEM

(L.H. drive vehicles)

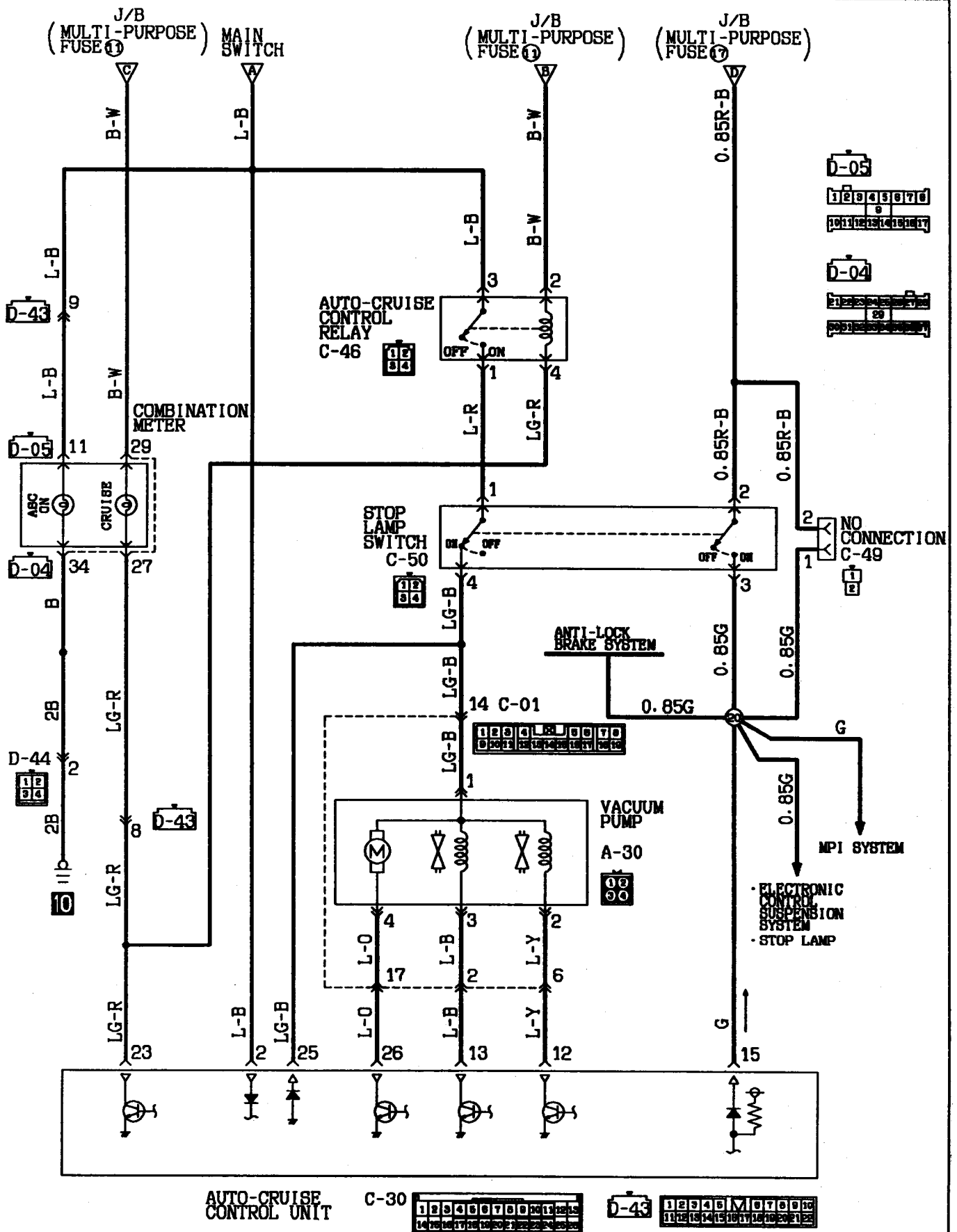


Wire colour code
 B:Black LG:Light green G:Green L:Blue W:White Y:Yellow
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

88:Sky blue

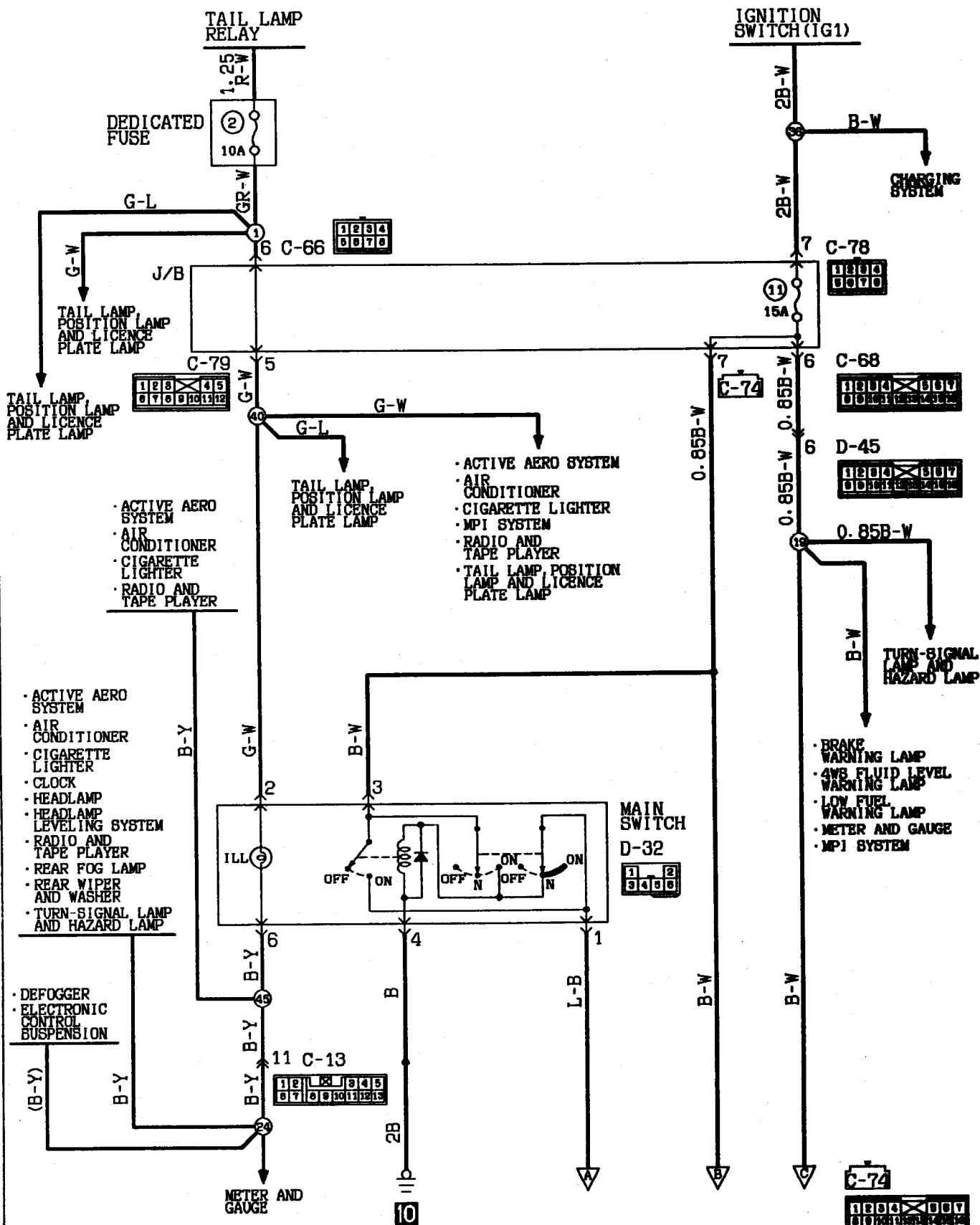


Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

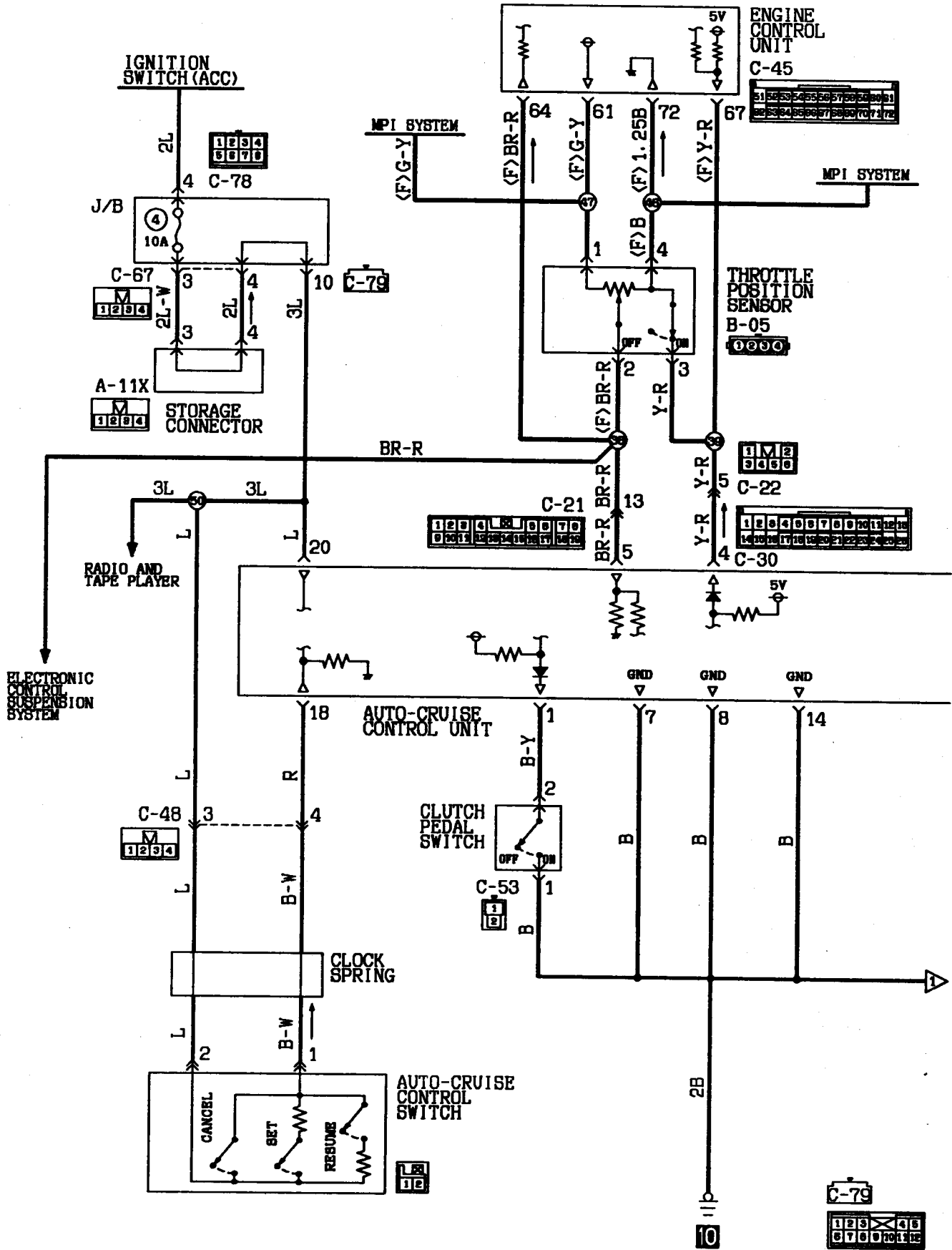


AUTO-CRUISE CONTROL SYSTEM

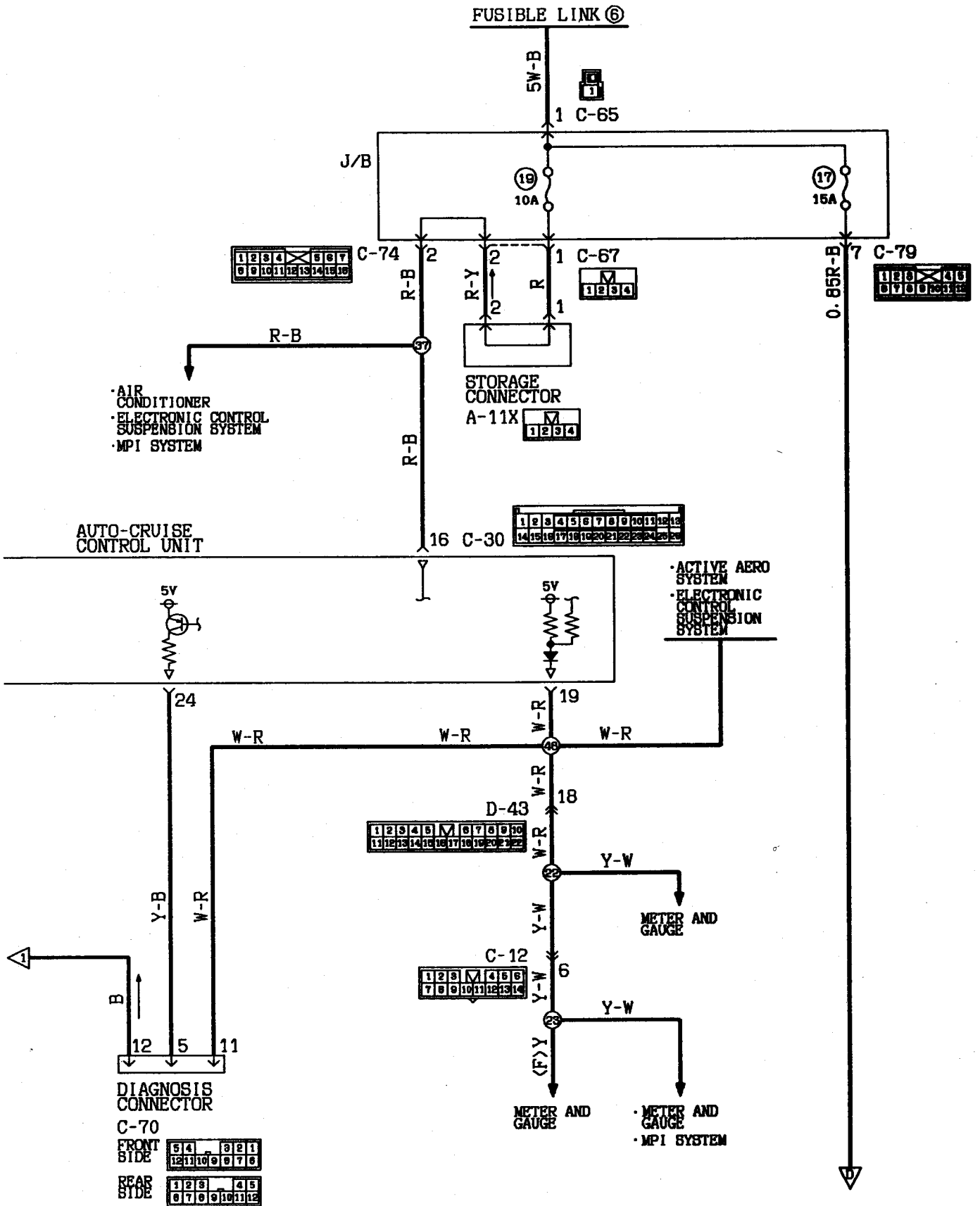
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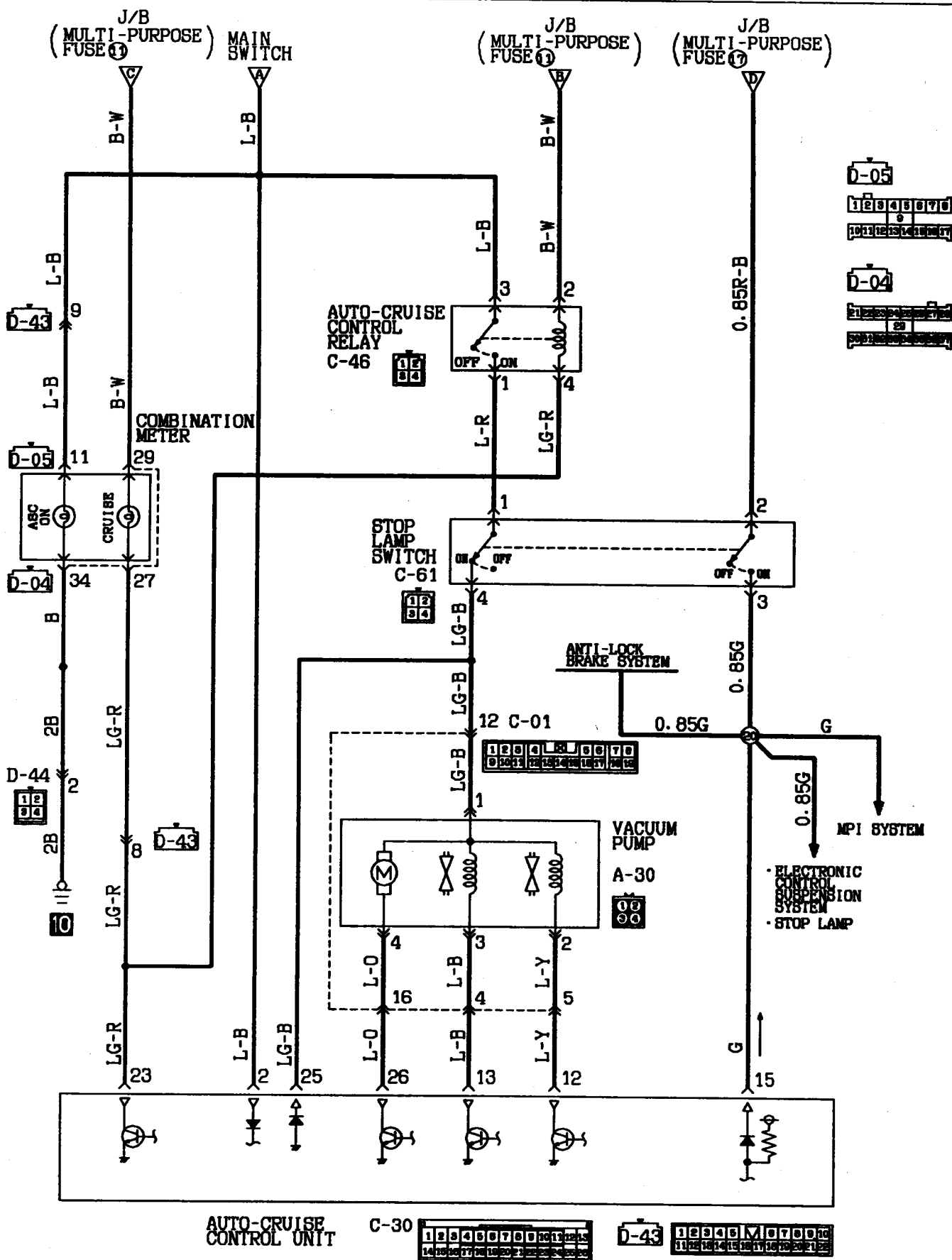


Wire colour code
 B:Black LG:Light green G:Green L:Blue Y:Yellow
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet SB:Sky blue



Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet





AUTO-CRUISE CONTROL UNIT

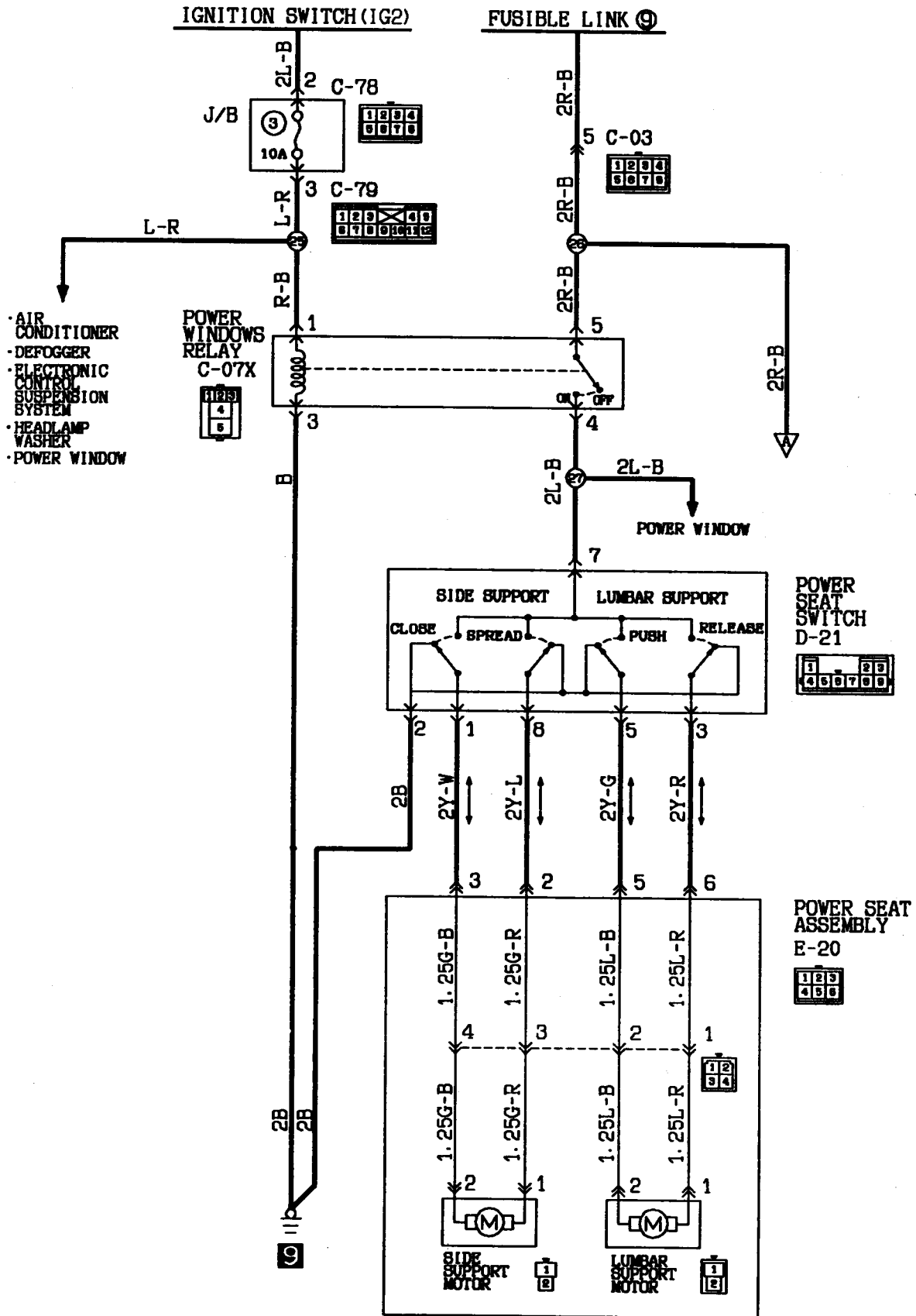


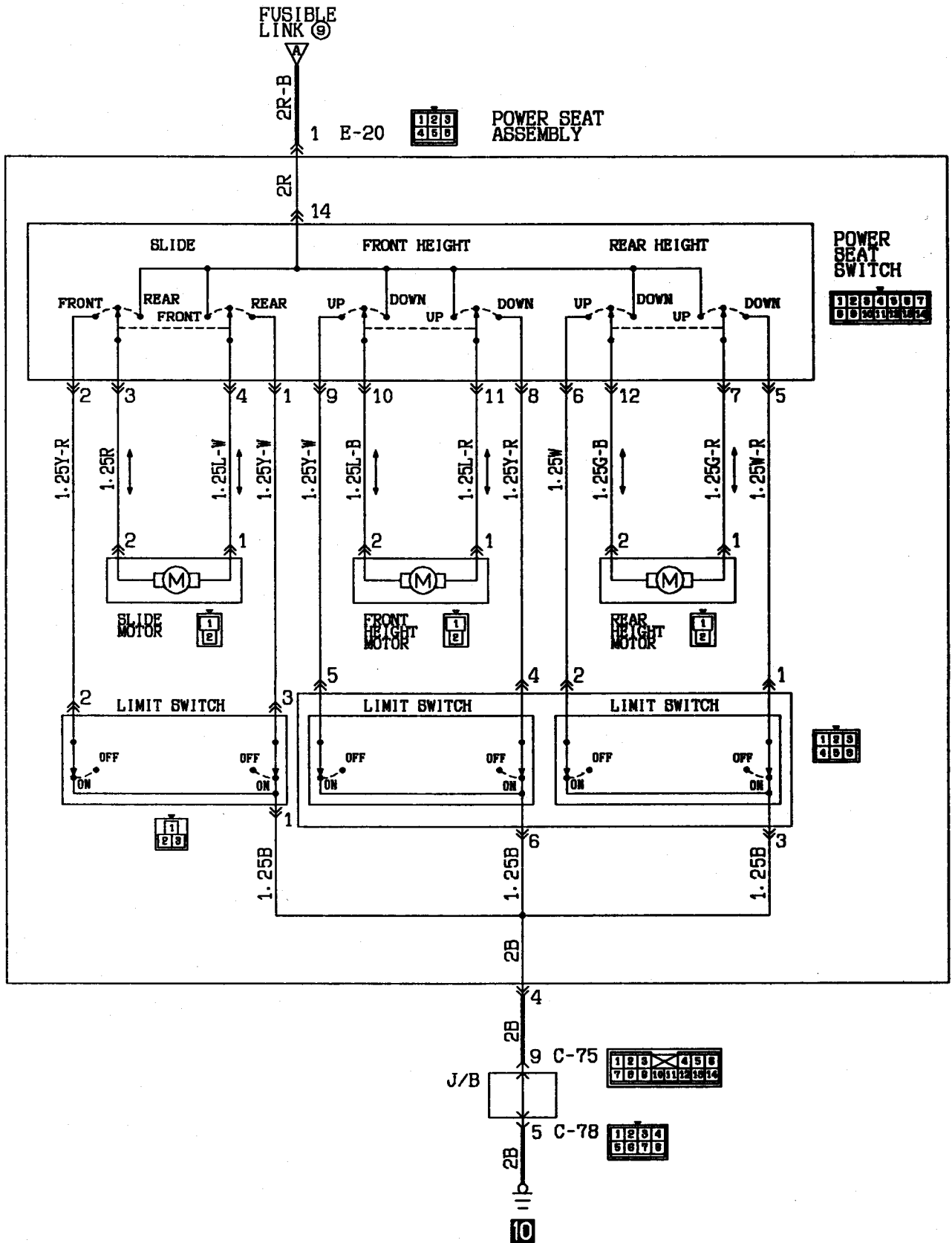
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NOTES

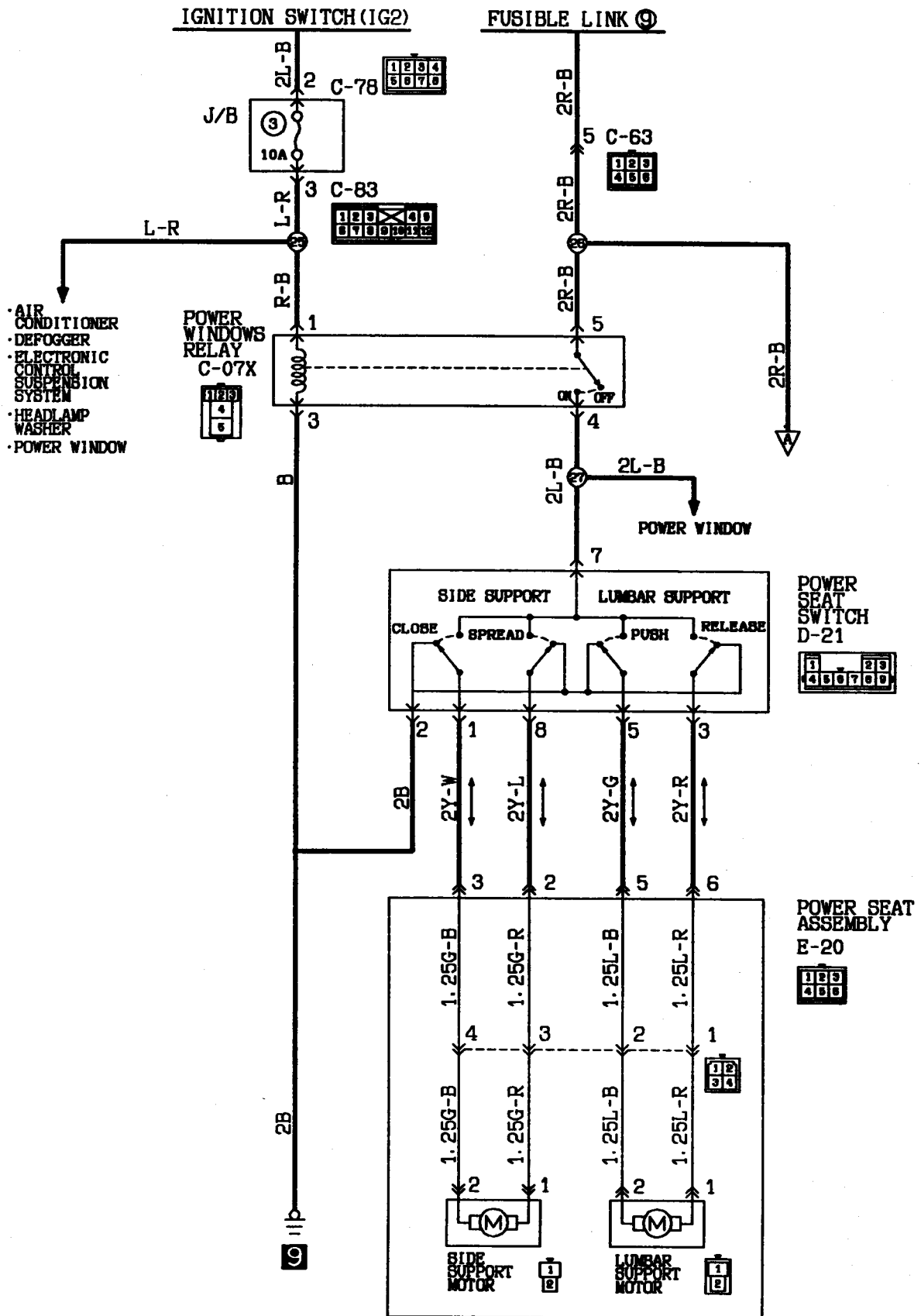
POWER SEAT (L. H. drive vehicles)

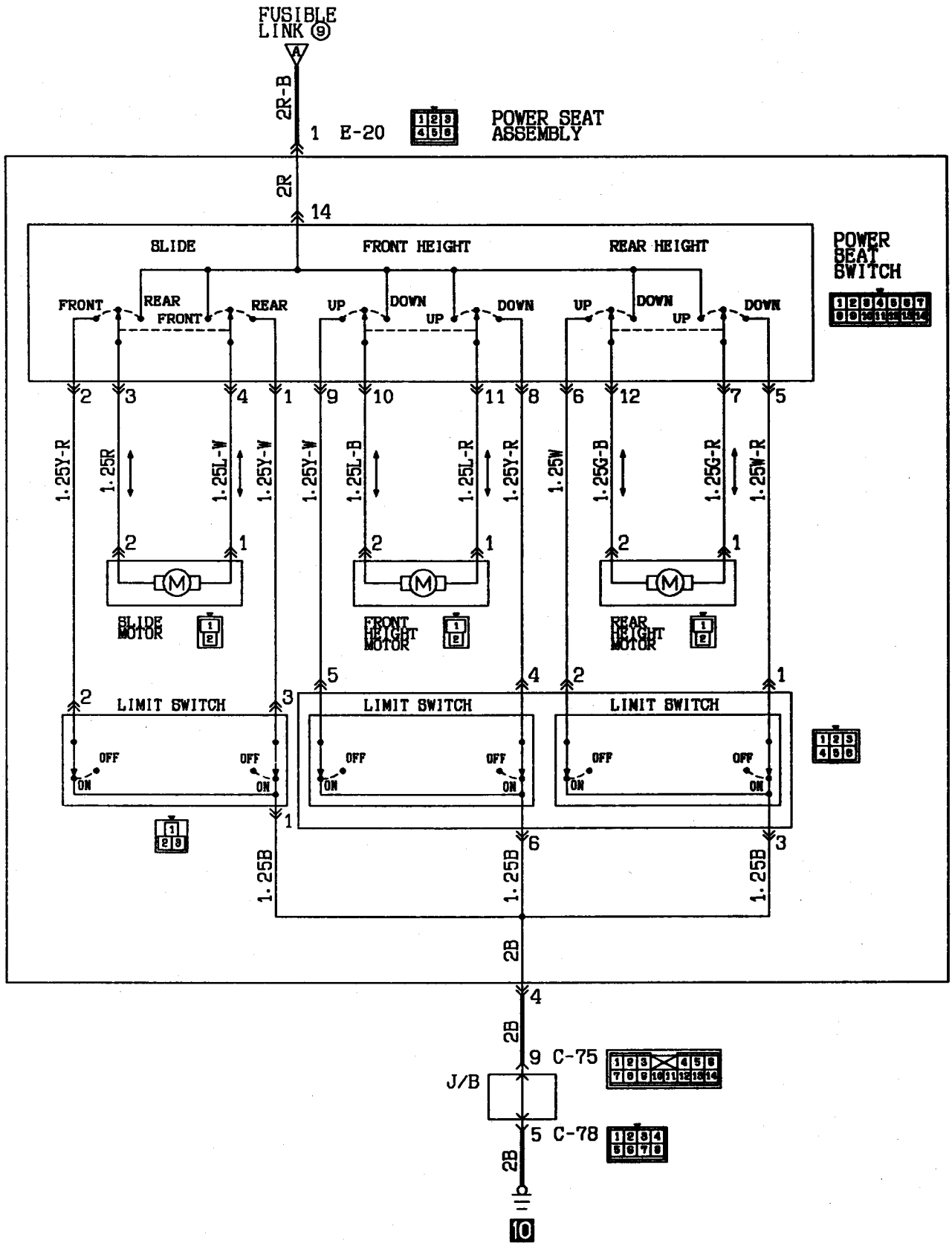




Wire colour code
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POWER SEAT (R. H. drive vehicles)

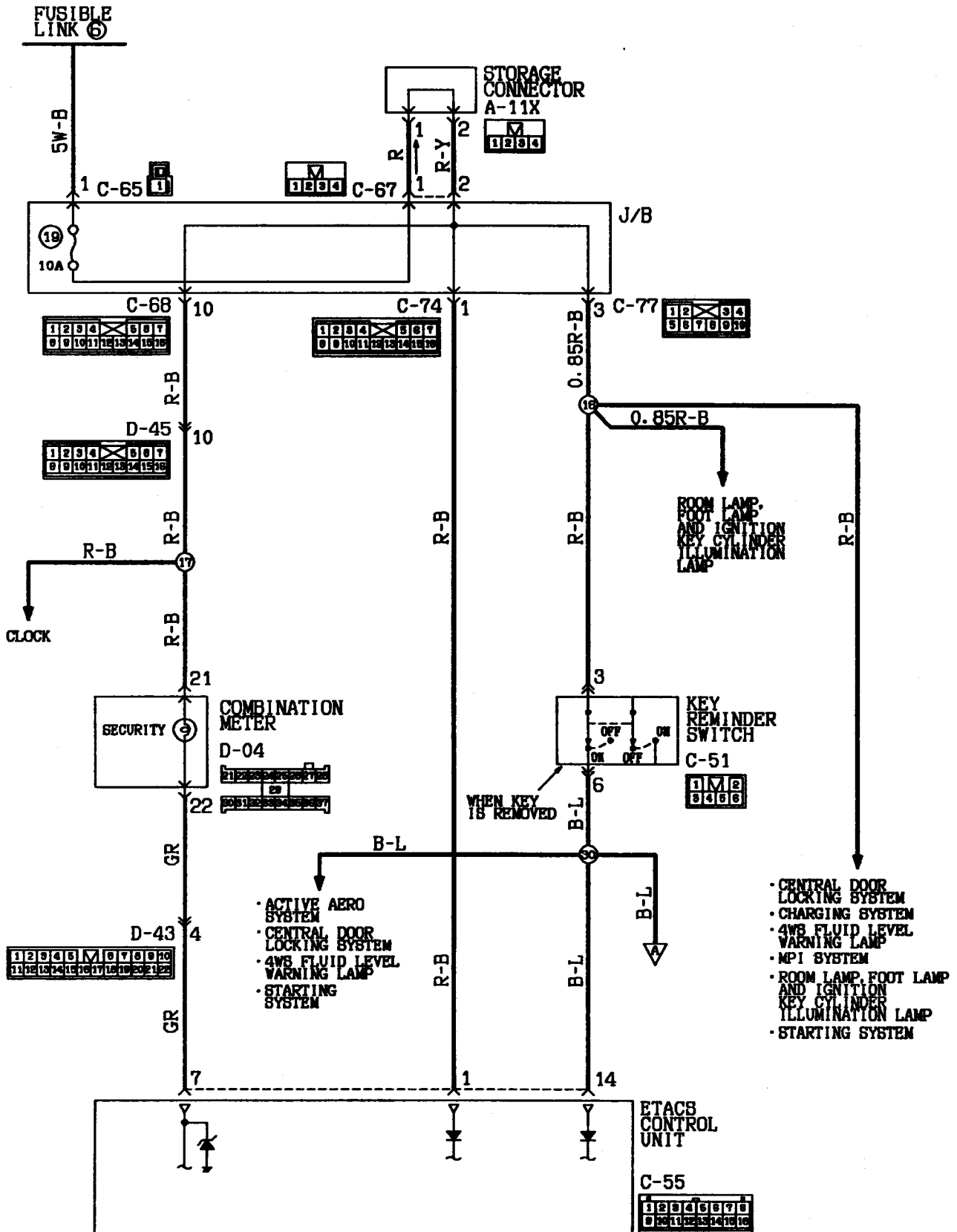




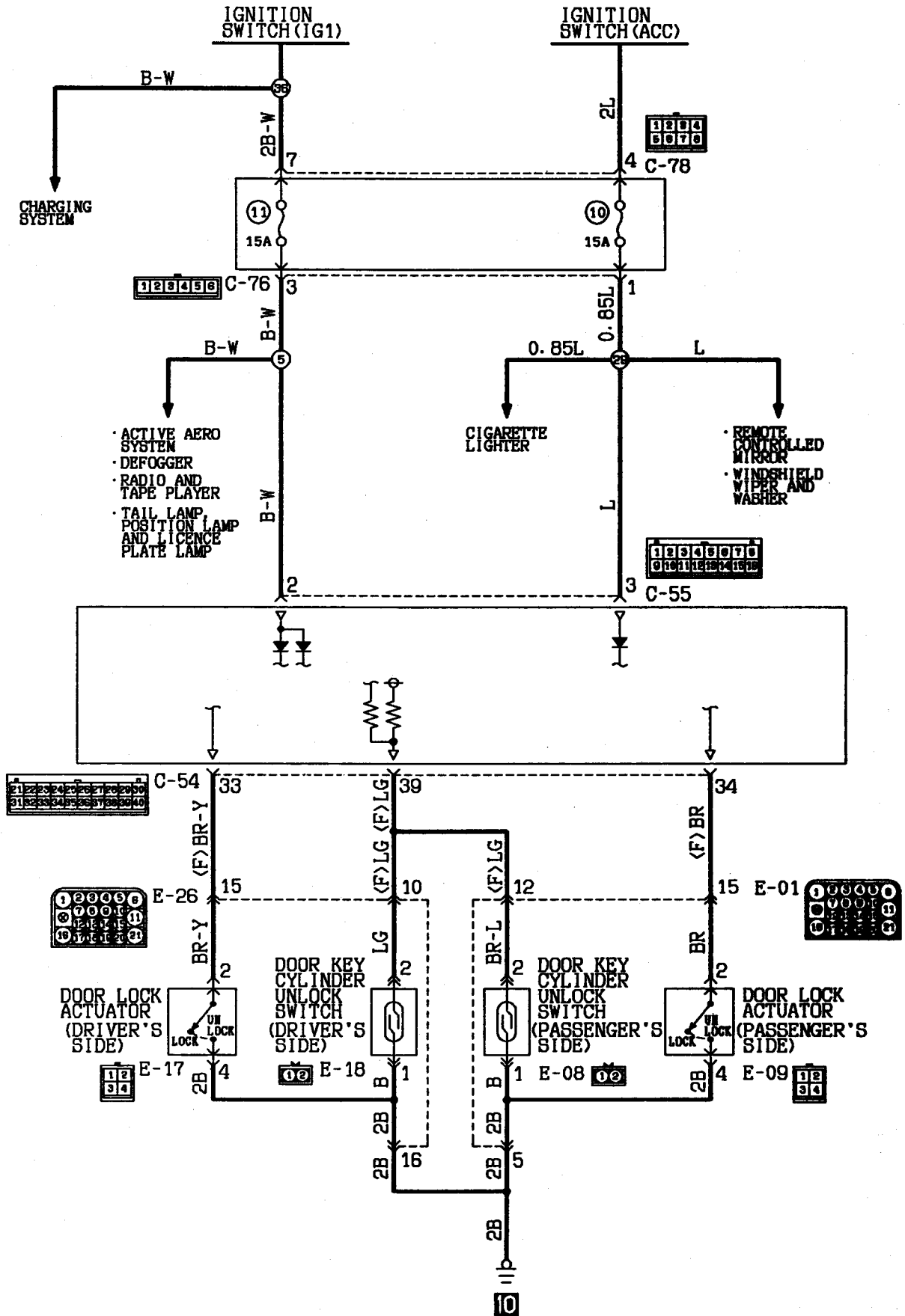
Wire colour code
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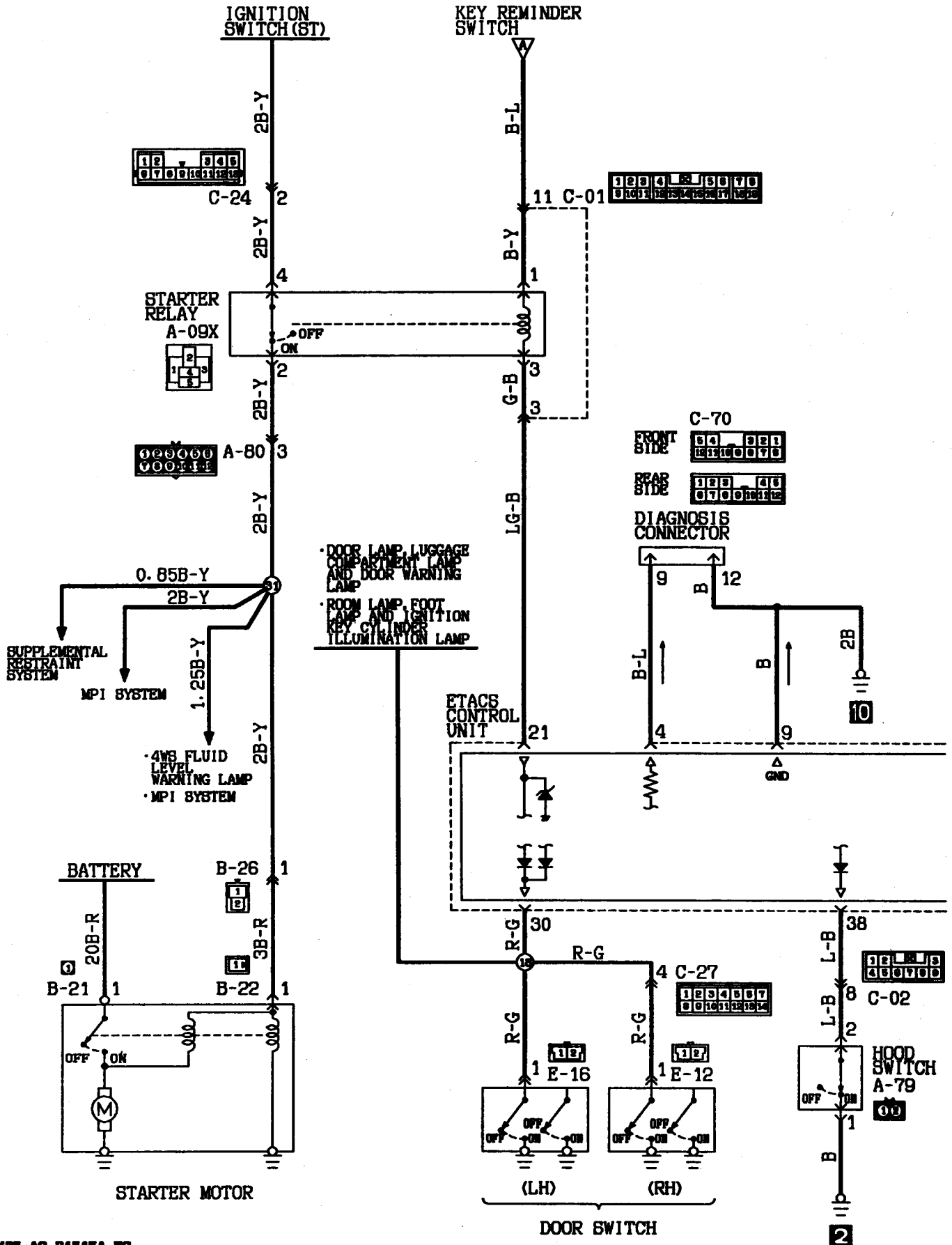
THEFT-ALARM SYSTEM

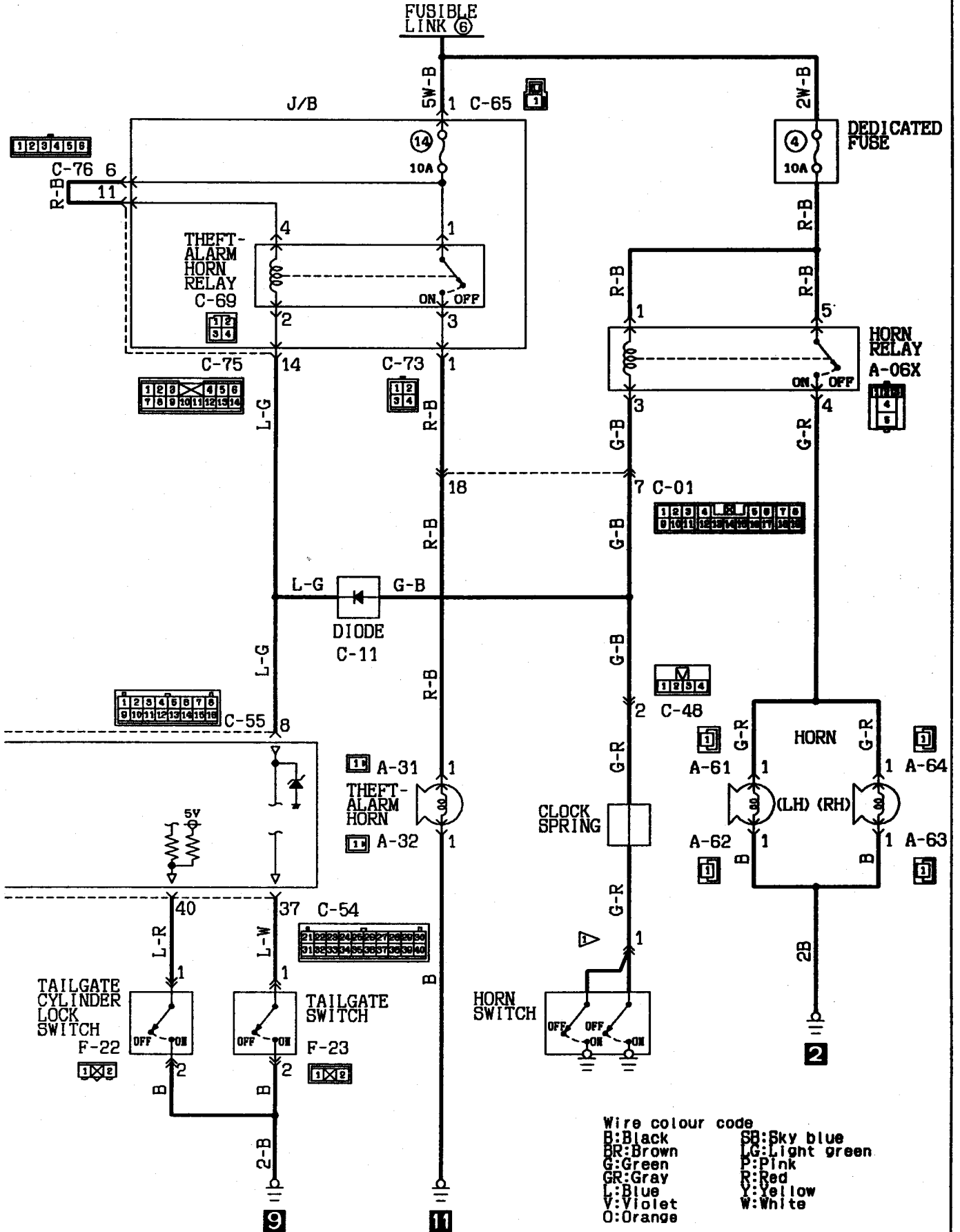
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Wire colour code
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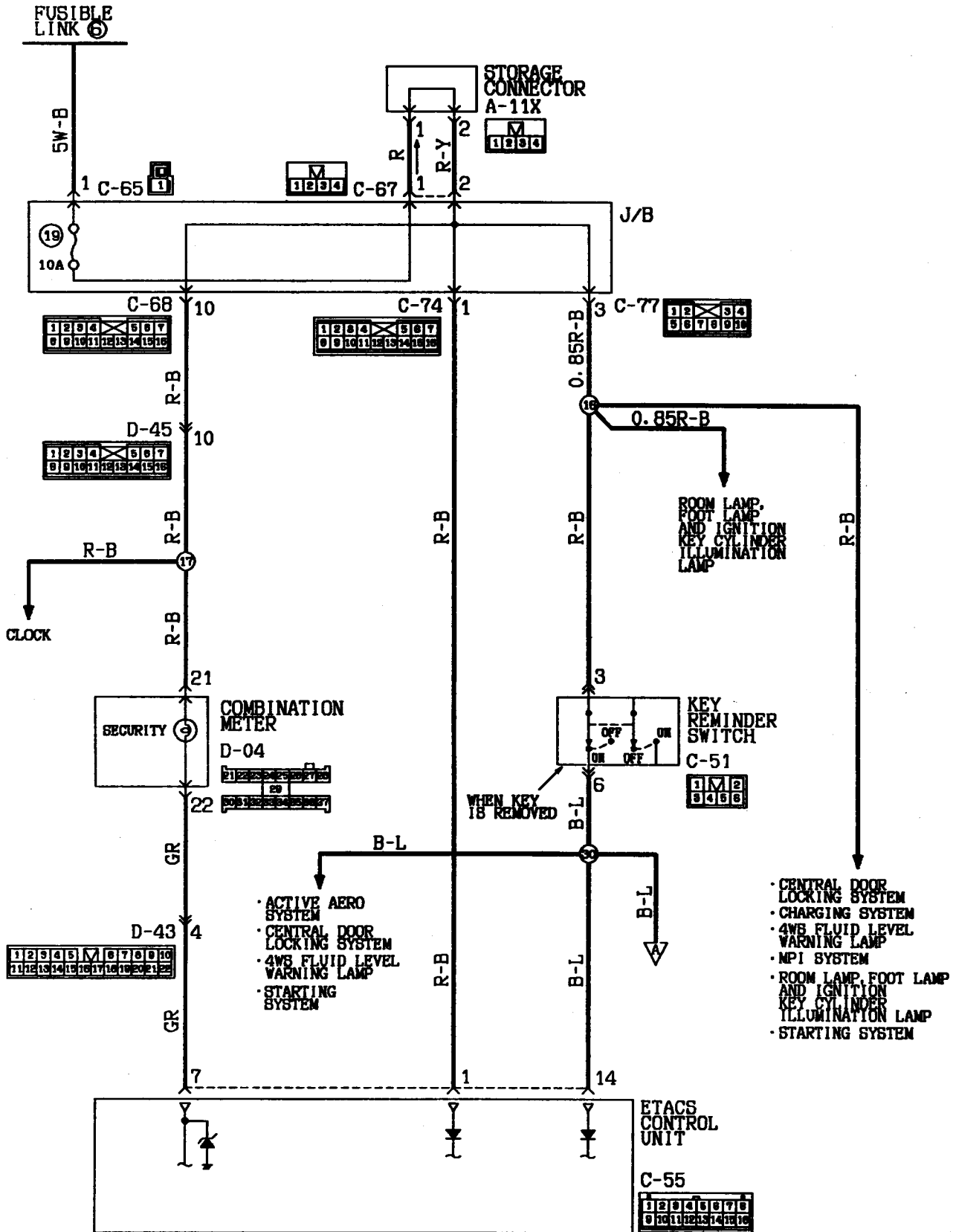




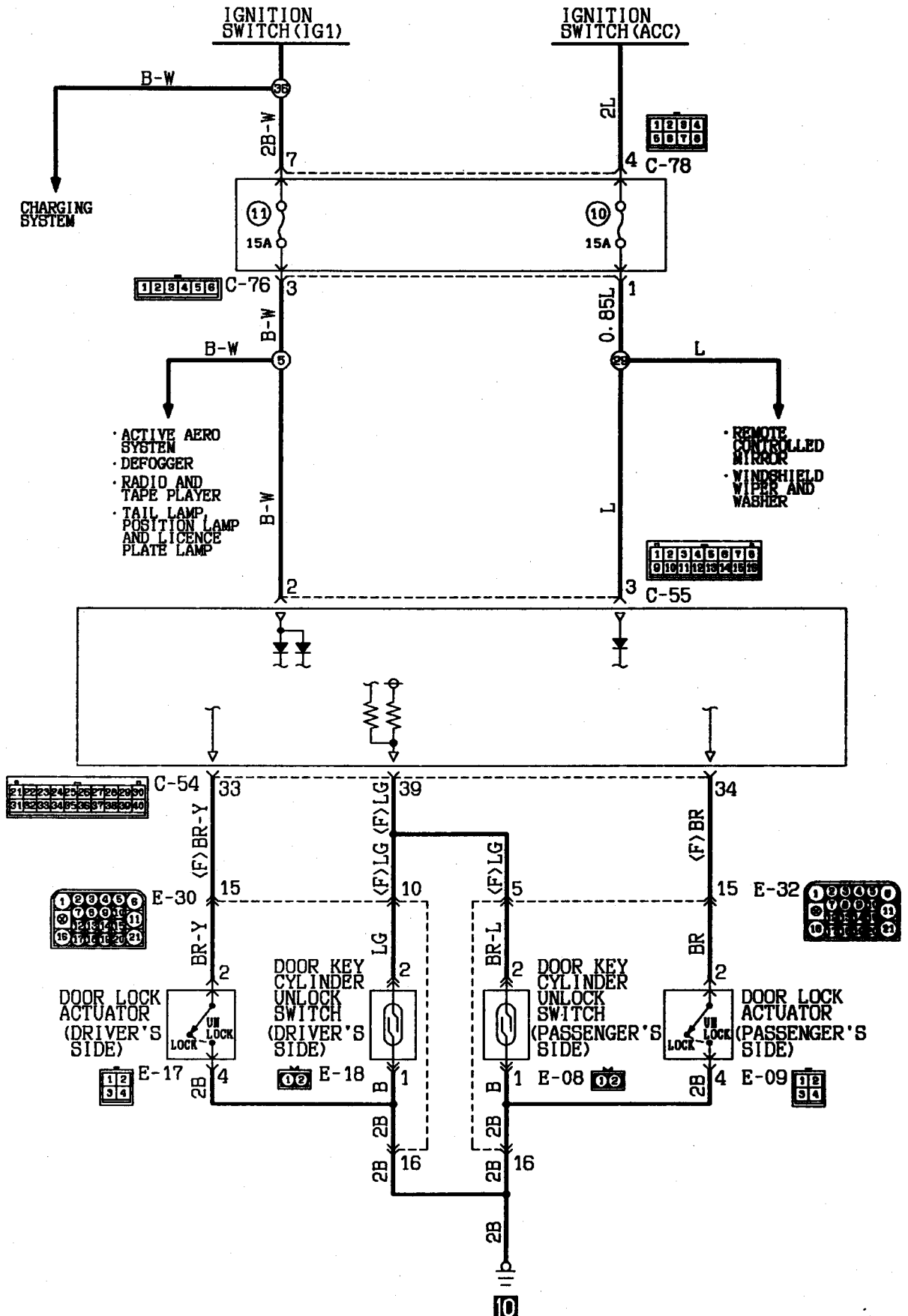


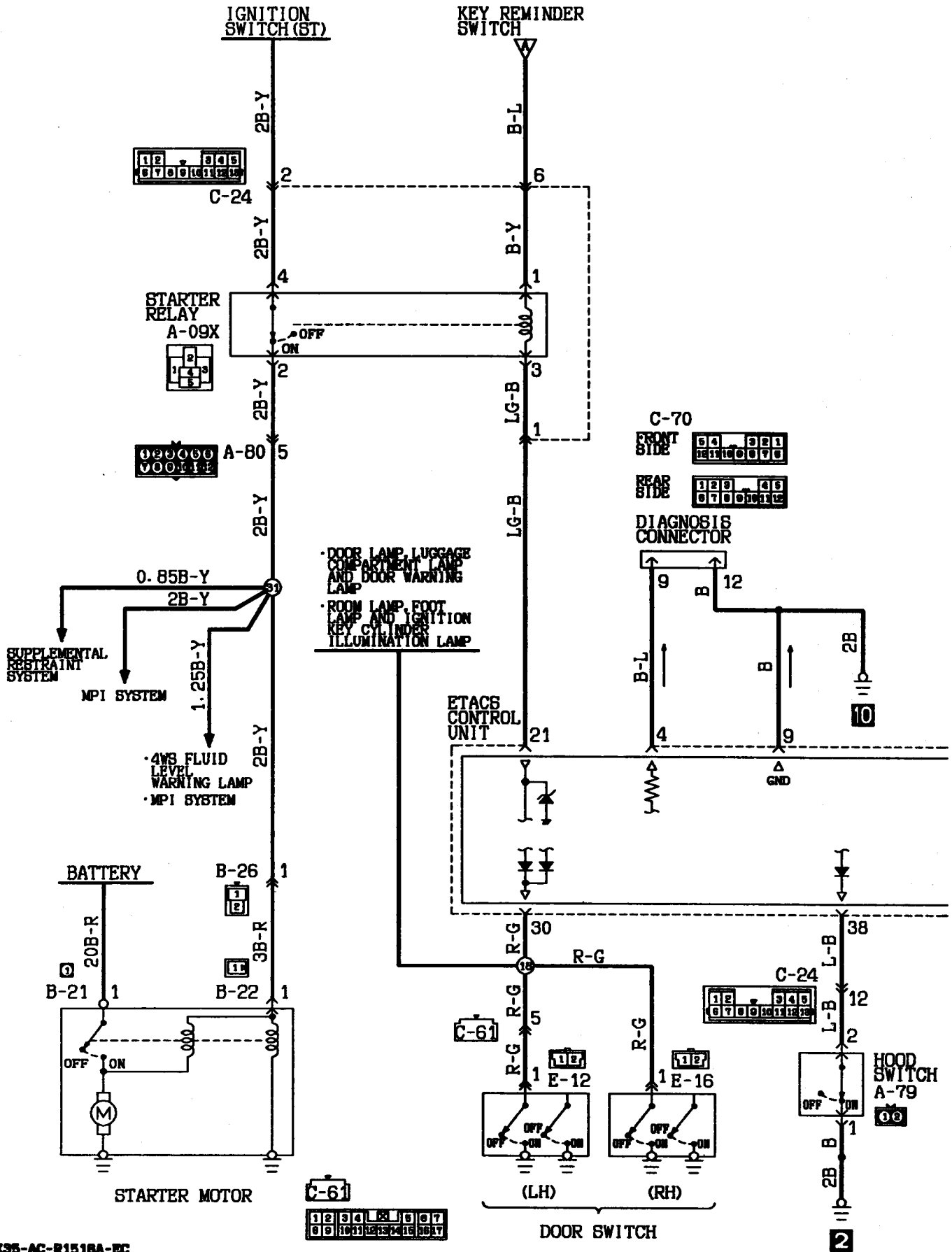
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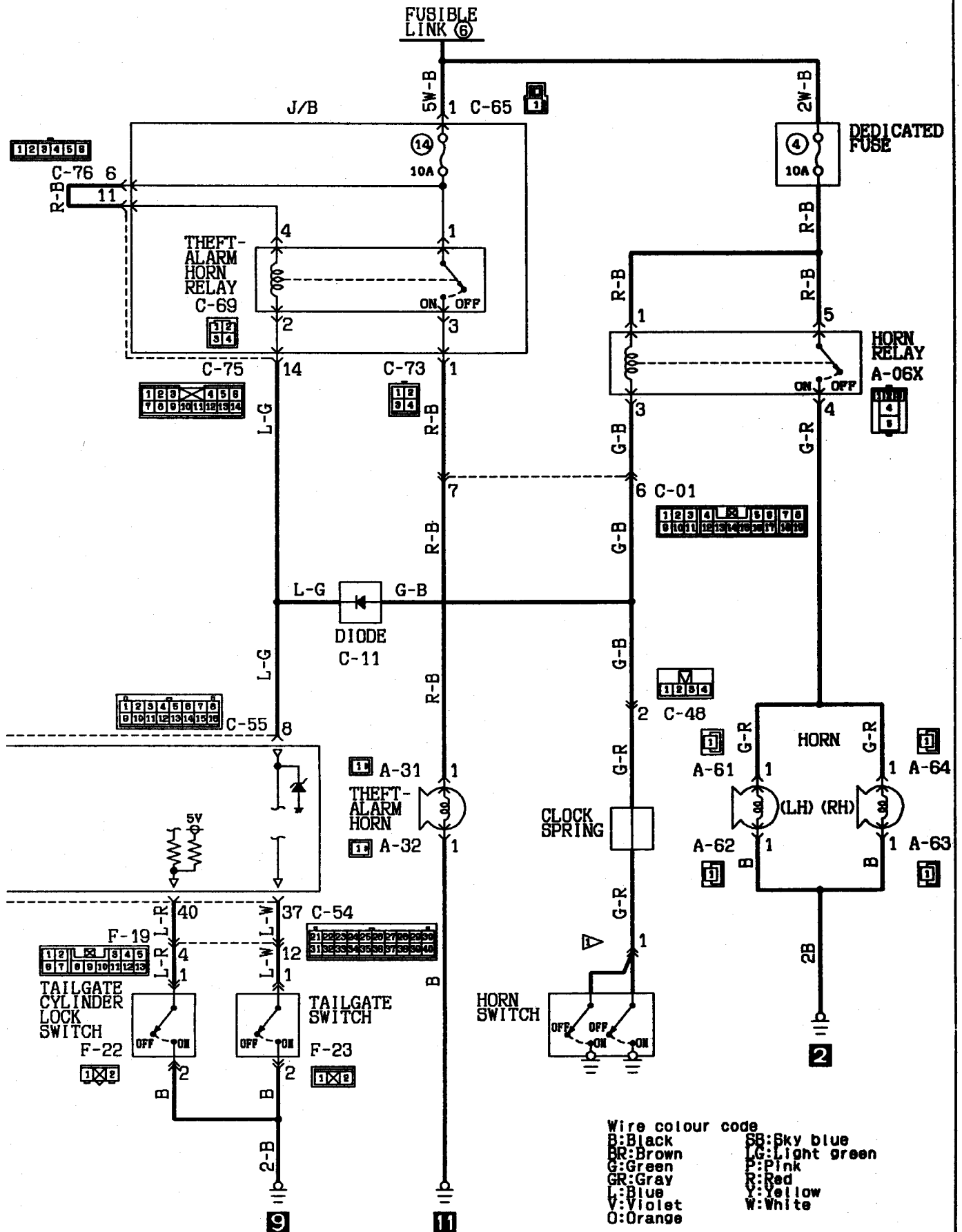
(R. H. drive vehicles)



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







NOTES



4B CIRCUIT DIAGRAM

JUNCTION BLOCK	4B-4	STOP LAMP	
CENTRALIZED JUNCTION	4B-6	L.H. drive vehicles	4B-87
POWER DISTRIBUTION SYSTEM		R.H. drive vehicles	4B-88
L.H. drive vehicles	4B-12	BACK-UP LAMP	
R.H. drive vehicles	4B-17	L.H. drive vehicles	4B-89
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R.H. drive vehicles with theft-alarm system	4B-23	Vehicles with theft-alarm system	4B-91
Vehicles without theft-alarm system	4B-24	Vehicles without theft-alarm system	4B-92
IGNITION SYSTEM	4B-26	METER AND GAUGE	4B-94
CHARGING SYSTEM	4B-27	4WS FLUID LEVEL WARNING LAMP	4B-96
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L.H. drive vehicles	4B-30	LOW FUEL WARNING LAMP	4B-97
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COOLING SYSTEM		LOW ENGINE OIL LEVEL WARNING LAMP	4B-98
L.H. drive vehicles	4B-42	POWER WINDOW	4B-100
R.H. drive vehicles	4B-44	CENTRAL DOOR LOCKING SYSTEM	4B-102
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L.H. drive vehicles with daytime running lamp	4B-46	L.H. drive vehicles	4B-106
L.H. drive vehicles without daytime running lamp	4B-50	R.H. drive vehicles	4B-114
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TAIL LAMP, POSITION LAMP AND LICENCE PLATE LAMP		R.H. drive vehicles	4B-127
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L.H. drive vehicles with daytime running lamp	4B-66	R.H. drive vehicles	4B-131
L.H. drive vehicles without daytime running lamp	4B-68	DEFOGGER	4B-132
R.H. drive vehicles	4B-70	RADIO AND TAPE PLAYER	
GLOVE BOX LAMP AND INSPECTION LAMP	4B-72	L.H. drive vehicles	4B-136
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L.H. drive vehicles	4B-74	CLOCK	4B-140
R.H. drive vehicles	4B-76	CIGARETTE LIGHTER	4B-141
DOOR LAMP, LUGGAGE COMPARTMENT LAMP AND DOOR WARNING LAMP		ANTI-LOCK BRAKE SYSTEM	
L.H. drive vehicles	4B-78	L.H. drive vehicles	4B-142
R.H. drive vehicles	4B-80	R.H. drive vehicles	4B-145
TURN-SIGNAL LAMP AND HAZARD LAMP		ELECTRONIC CONTROL SUSPENSION SYSTEM	
L.H. drive vehicles	4B-82	L.H. drive vehicles	4B-148
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ACTIVE AERO SYSTEM

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L.H. drive vehicles without theft-alarm system 4B-161
R.H. drive vehicles with theft-alarm system 4B-164
R.H. drive vehicles without theft-alarm system 4B-167

SUPPLEMENTAL RESTRAINT SYSTEM

L.H. drive vehicles 4B-170
R.H. drive vehicles 4B-172

AUTO-CRUISE CONTROL SYSTEM

L.H. drive vehicles 4B-174
R.H. drive vehicles 4B-178

POWER SEAT

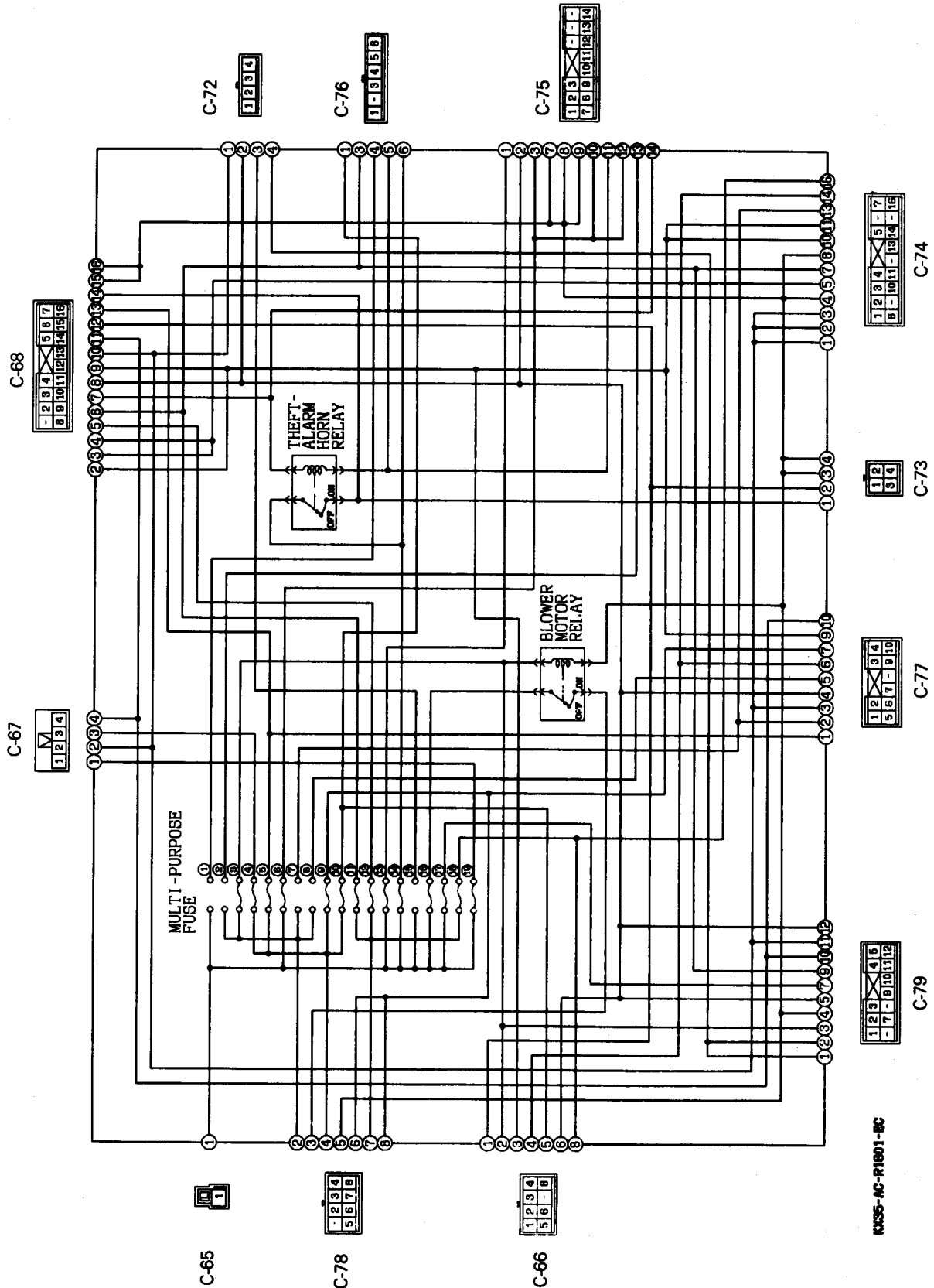
L.H. drive vehicles 4B-182
R.H. drive vehicles 4B-184

THEFT-ALARM SYSTEM

L.H. drive vehicles 4B-186
R.H. drive vehicles 4B-190

NOTES

JUNCTION BLOCK

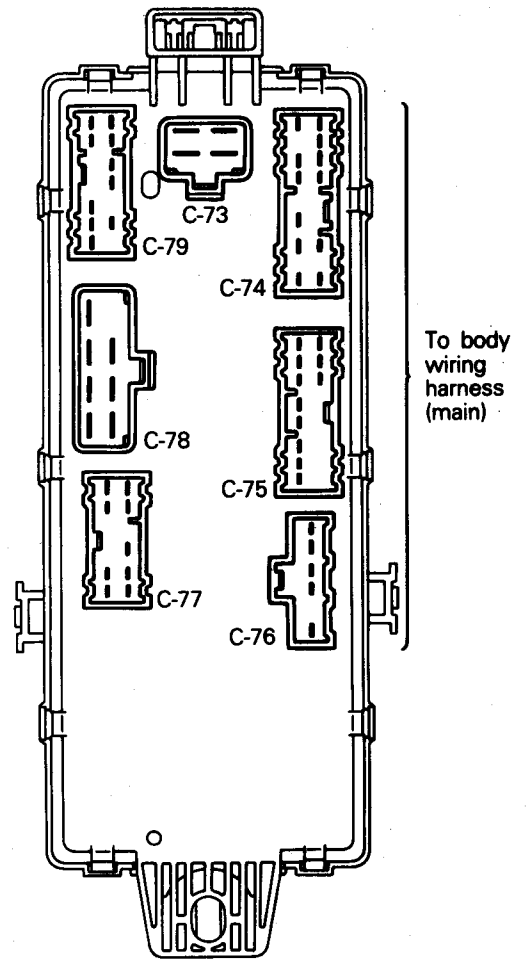
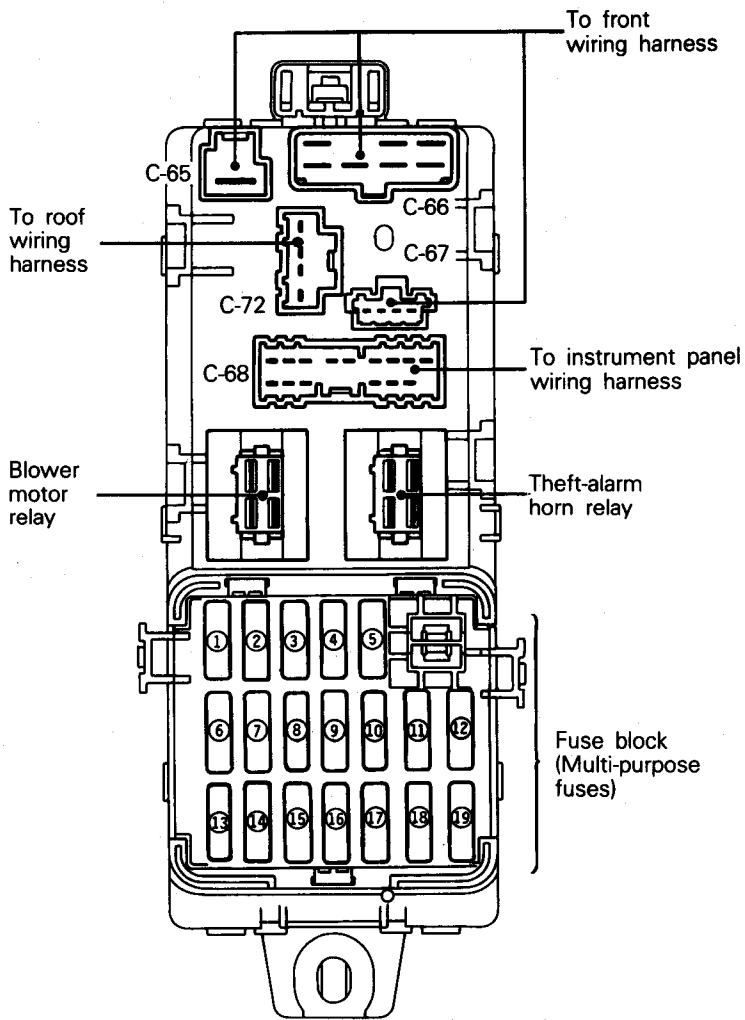


Remark

- Connector numbers are keyed to the configuration diagram (dash panel) and each circuit diagram.

Front side

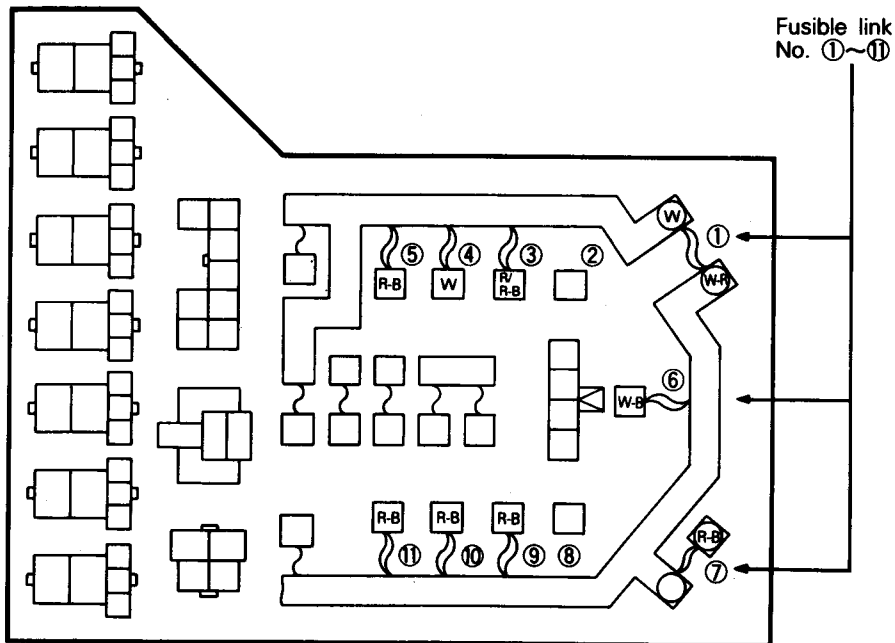
Rear side



CENTRALIZED JUNCTION

FUSIBLE LINK (Relay box in engine compartment)

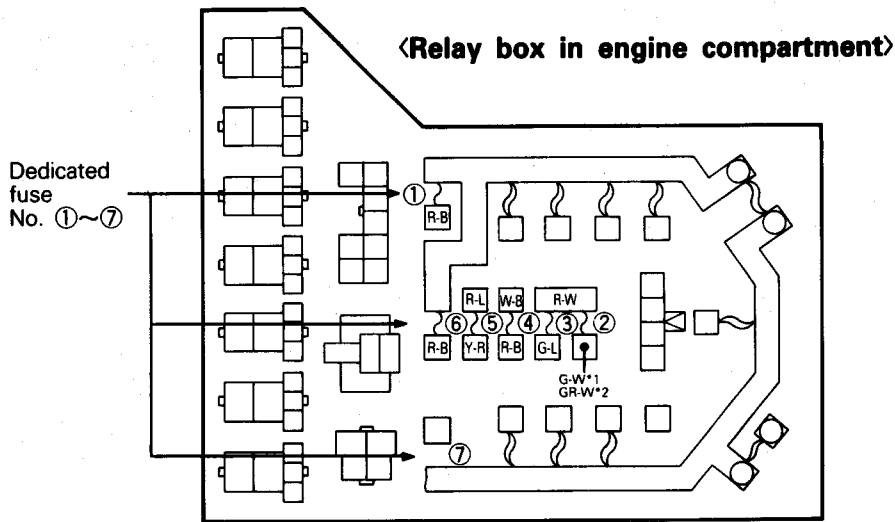
No.	Circuit	Housing colour	Rated capacity (A)
1	Alternator circuit, Fusible link No. ⑥, ⑦, ⑨, ⑩, ⑪, Dedicated fuse ⑦	Wine red	120
2	—	—	—
3	Lighting circuit, Charging circuit	Green	40
4	Ignition switch circuit	Pink	30
5	Radiator fan motor and condenser fan motor circuit	Green	40
6	Junction block (Multipurpose fuse ⑥, ⑬, ⑭, ⑯, ⑰, ⑱), Dedicated fuse ④	Green	40
7	ABS circuit	Yellow	60
8	—	—	—
9	Power window circuit, Power seat circuit	Pink	30
10	Defogger circuit, Remote controlled mirror circuit	Green	40
11	Active aero circuit	Pink	30



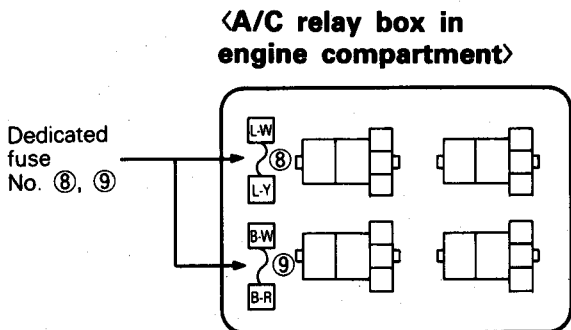
16F0434

DEDICATED FUSE

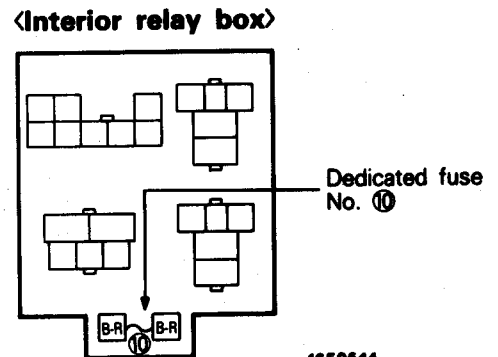
Power supply circuit	No.	Rated capacity (A)	Housing colour	Circuit
Battery	1	20	Yellow	MPI circuit
Tail lamp relay	2	10	Red	Tail lamp circuit, Lighting monitor buzzer circuit <LHD>
	3	10	Red	Tail lamp circuit, Lighting monitor buzzer circuit <RHD>
Fusible link ⑥	4	10	Red	Horn circuit
Headlamp relay	5	10	Red	Upper beam circuit, Headlamp leveling circuit, Headlamp washer circuit
Battery	6	10	Red	Hazard lamp circuit
	7	—	—	—
Fusible link ⑤	8	20	Yellow	Condenser fan motor circuit
	9	10	Red	A/C circuit
Defogger relay	10	10	Red	Remote controlled mirror heater circuit



16F0434



16F0002



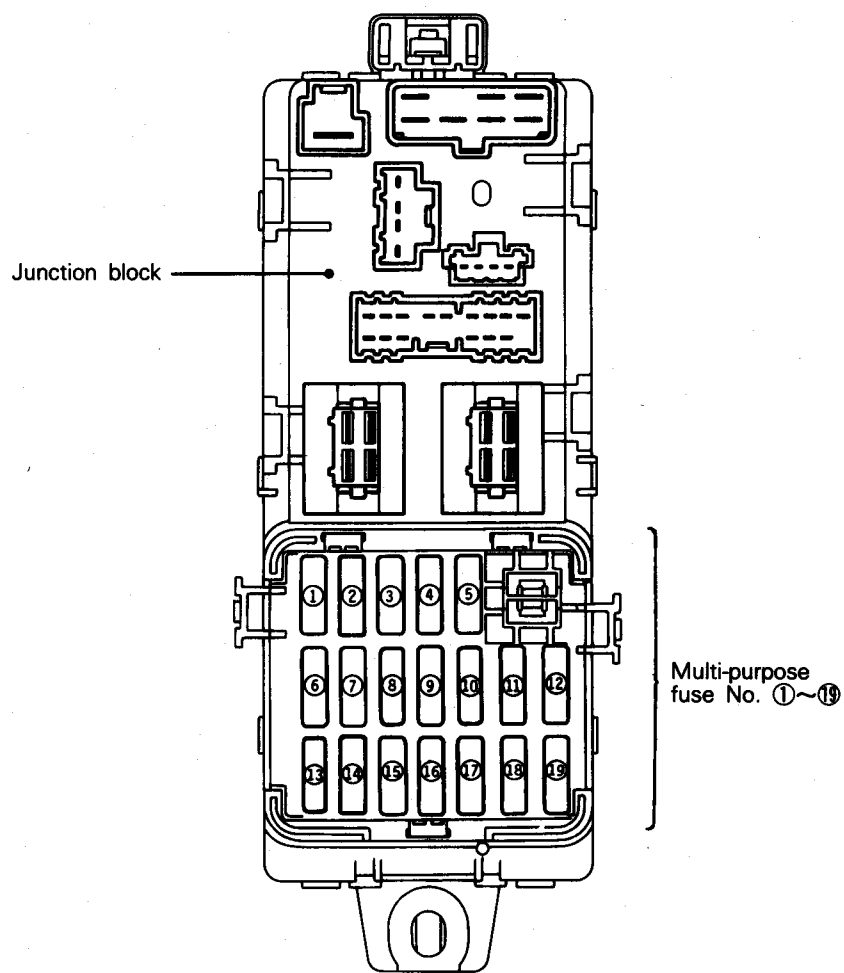
16F0844

MULTI-PURPOSE FUSE (In junction block)

Power supply circuit		No.	Rated capacity (A)	Load circuit
—		1	—	—
—		2	—	—
Ignition switch	IG ₂	3	10	ABS control unit, A/C compressor lock controller, A/C control unit, Blower motor relay, Condenser fan motor relay (HI), Daytime running lamp control unit, Defogger relay, Dim-dip lamp relay 1, Electronic control suspension control unit, Headlamp washer relay, Power window relay, Radiator fan motor relay
		4	10	Radio and tape player, Auto-cruise control unit, Motor antenna control unit, Clock
	ACC	5	15	Cigarette lighter, Remote controlled mirror
Battery		6	10	Door lock power relay, ETACS control unit, Motor antenna control unit
—		7	—	—
—		8	—	—
Ignition switch	ACC	9	15	Rear intermittent wiper relay, Washer motor, Wiper motor, Wiper relay
		10	15	Accessory socket*, ETACS control unit
	IG ₁	11	15	Active aero control unit, Auto-cruise control main switch, Auto-cruise control relay, Combination gauge, Combination meter, Engine oil level relay, ETACS control unit, Lighting monitor buzzer, Motor antenna control unit, Speed sensor, SRS diagnosis unit, Turn signal and hazard flasher unit, 4WS fluid level sensor
		12	15	Capacitor, Engine control relay, Engine control unit, Ignition coil, Power transistor
Battery		13	10	Rear fog lamp relay, Rear fog lamp
Battery		14	10	Theft-alarm horn, Theft-alarm horn relay
—		15	—	—
Battery		16	30	Blower motor
Battery		17	15	Stop lamp
Ignition switch	IG ₁	18	10	Back-up lamp, SRS diagnosis unit
Battery		19	10	Active aero control unit, A/C control unit, Auto-cruise control unit, Clock, Combination meter, Door lamp, Electronic control suspension control unit, Engine control unit, ETACS control unit, Foot lamp, Ignition key cylinder illumination lamp, Luggage compartment lamp, Radio and Tape player, Room lamp, Starter relay, MUT-II power supply circuit

NOTE

*: L.H. drive vehicles.

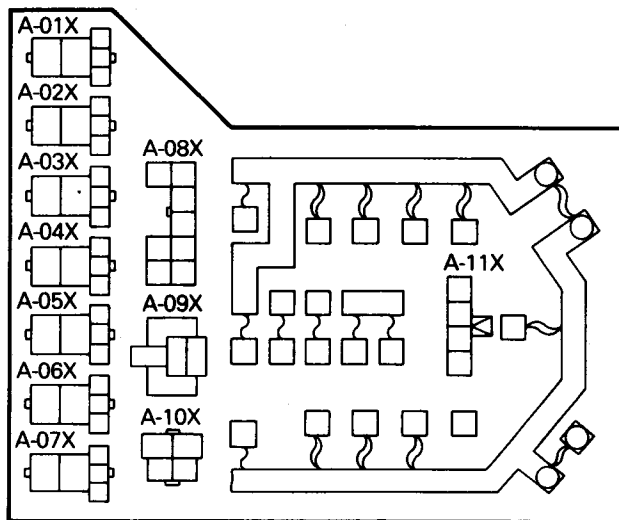


CENTRALIZED RELAY

Classification		Name	Classification		Name
Relay box in engine compartment	A-01X	Headlamp relay	A/C relay box in engine compartment	A-44X	Condenser fan motor relay (HI)
	A-02X	—		A-45X	—
	A-03X	—		A-46X	Magnetic clutch relay
	A-04X	Radiator fan motor relay (LO)		A-47X	Condenser fan motor relay (LO)
	A-05X	Tail lamp relay	Interior relay box	C-04X	Door lock power relay
	A-06X	Horn relay		C-05X	Rear fog lamp relay
	A-07X	Radiator fan motor relay (HI)		C-06X	Defogger relay
	A-08X	—		C-07X	Power window relay
	A-09X	Starter relay*		—	—
	A-10X	Alternator relay			
	A-11X	Storage connector			

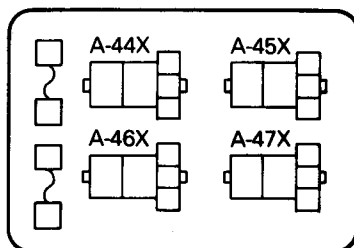
NOTE
 *: Vehicles with theft-alarm system.

⟨Relay box in engine compartment⟩



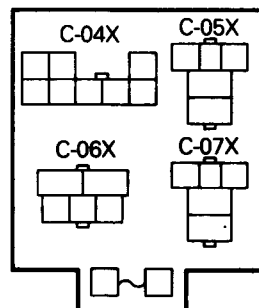
16F0434

⟨A/C relay box in engine compartment⟩



16F0002

⟨Interior relay box⟩

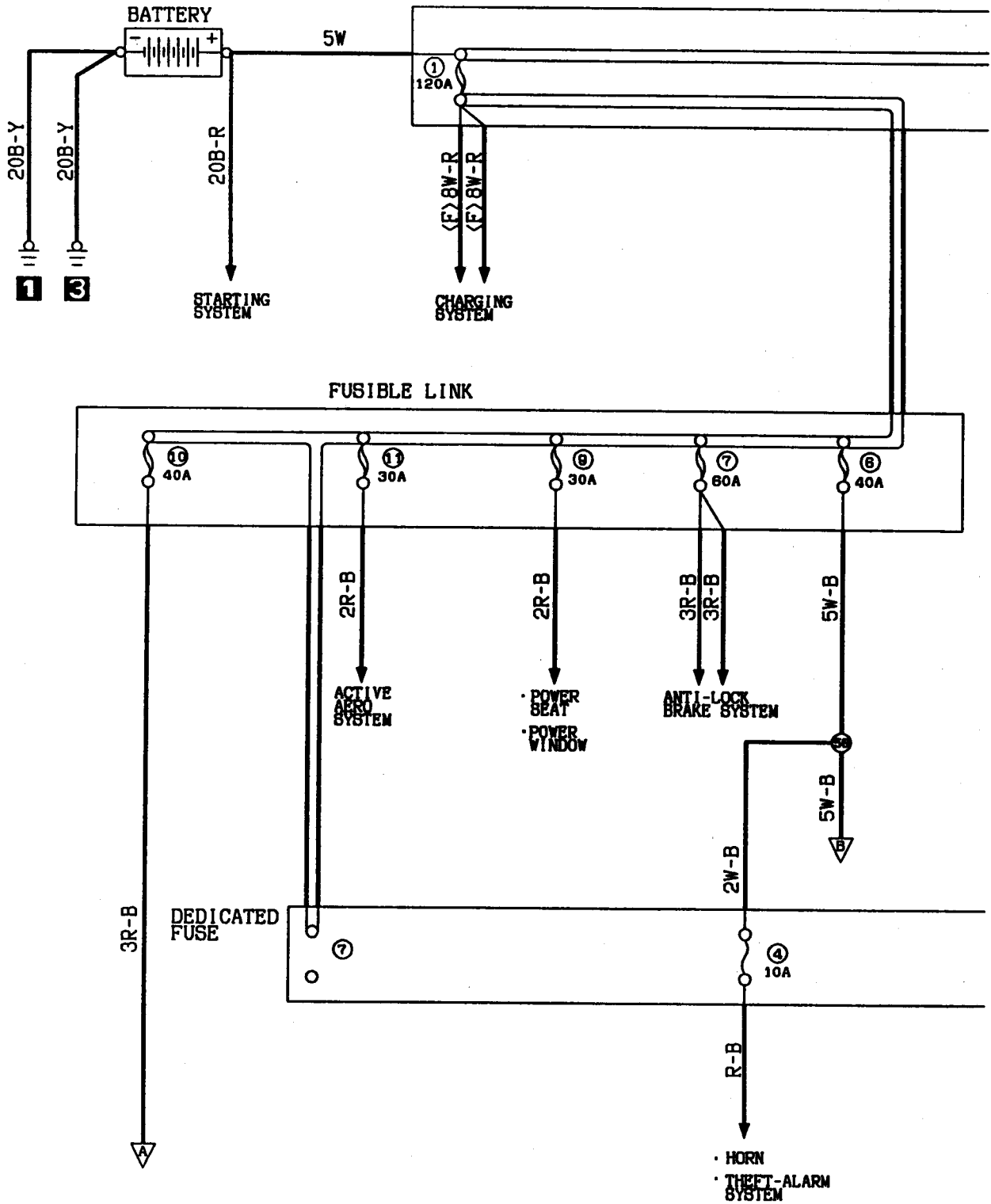


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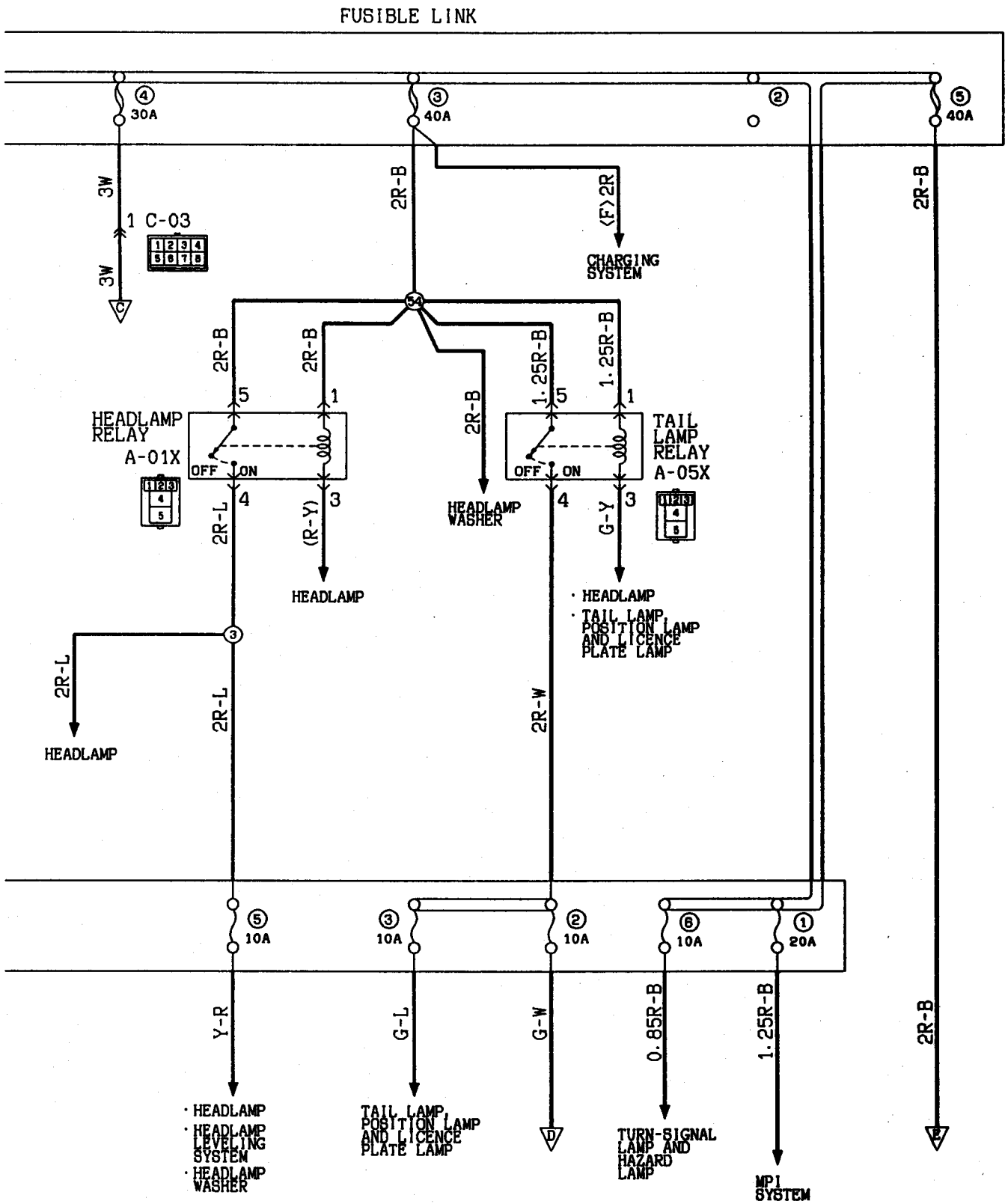
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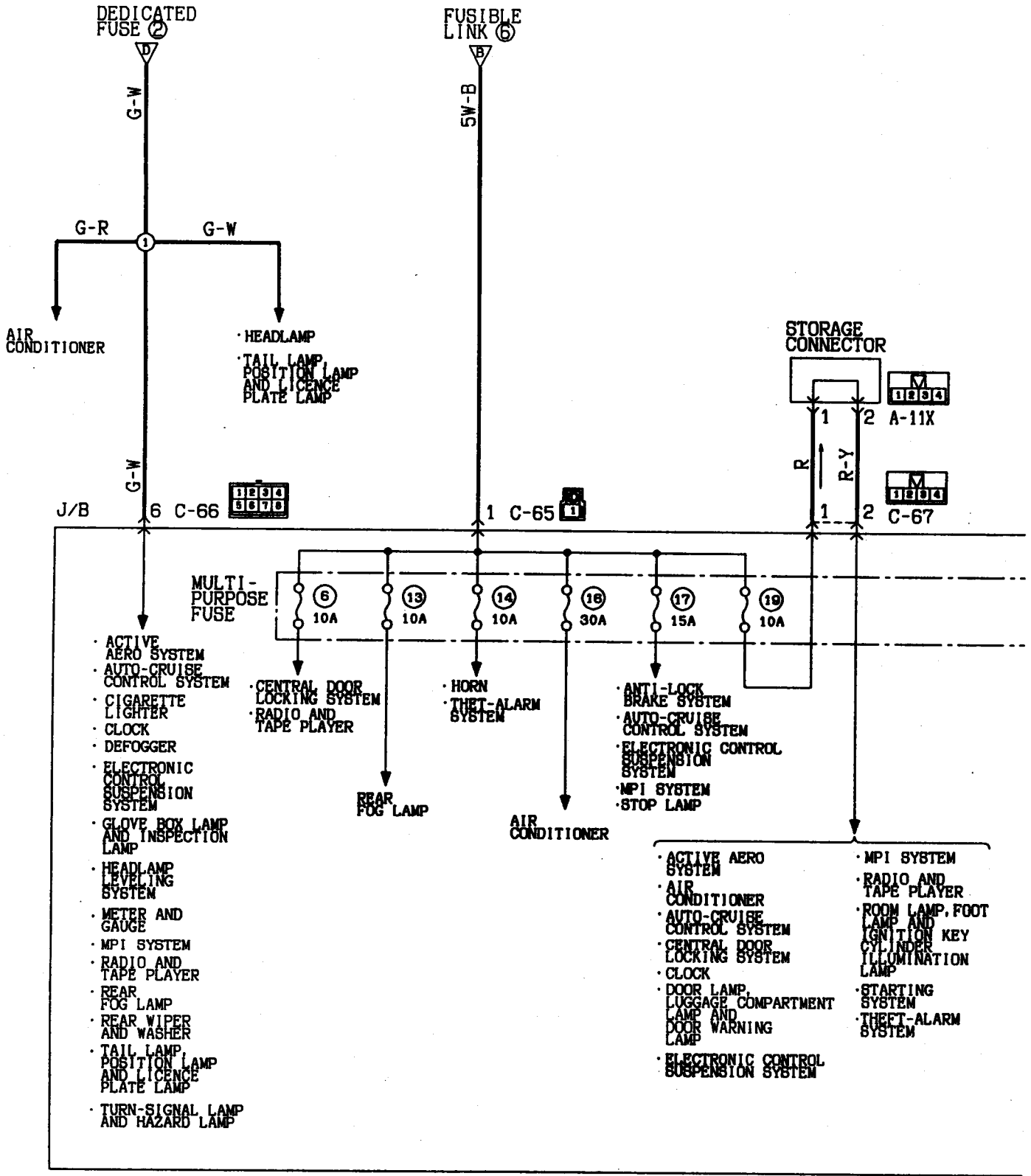
POWER DISTRIBUTION SYSTEM

L. H. drive vehicles



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

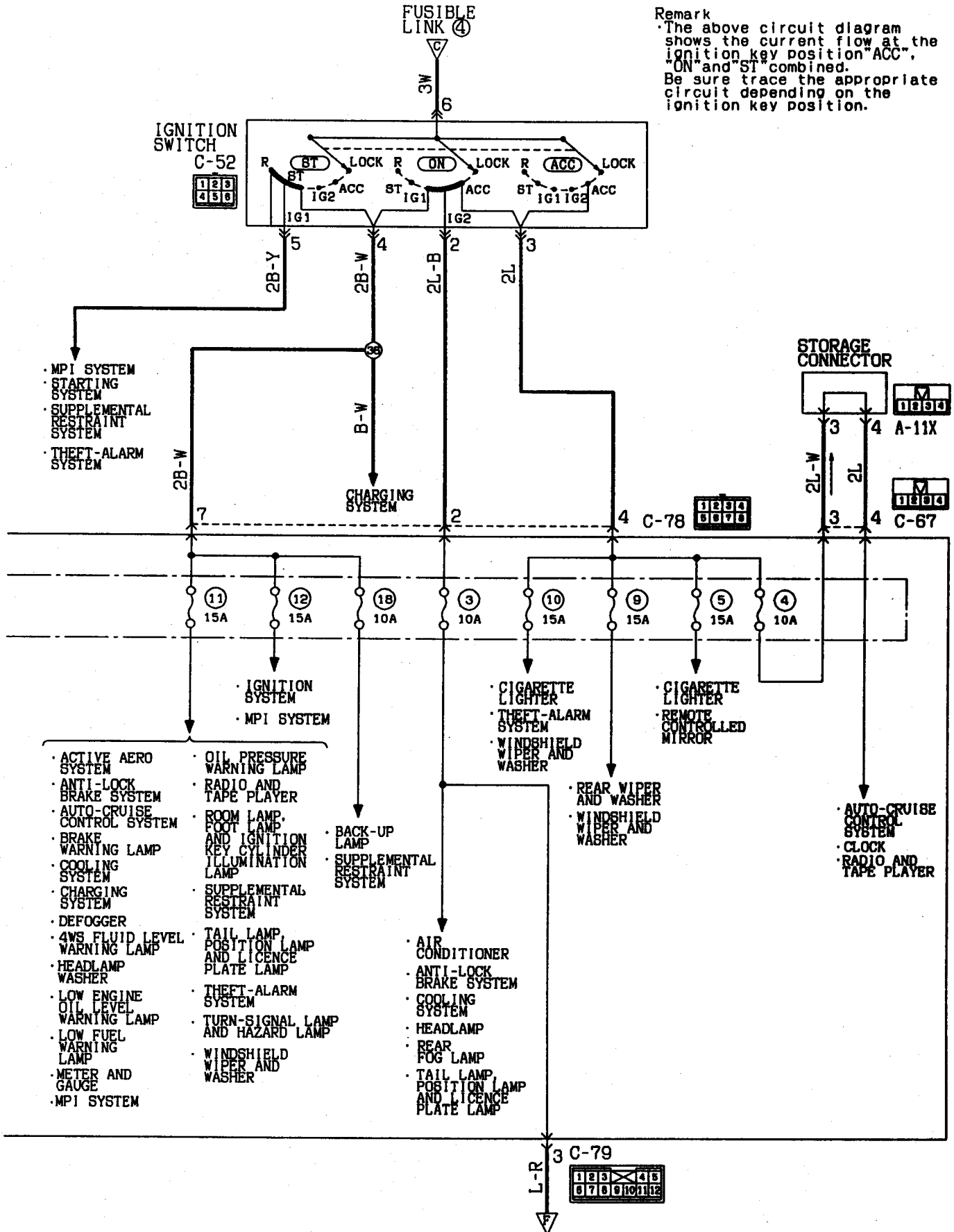


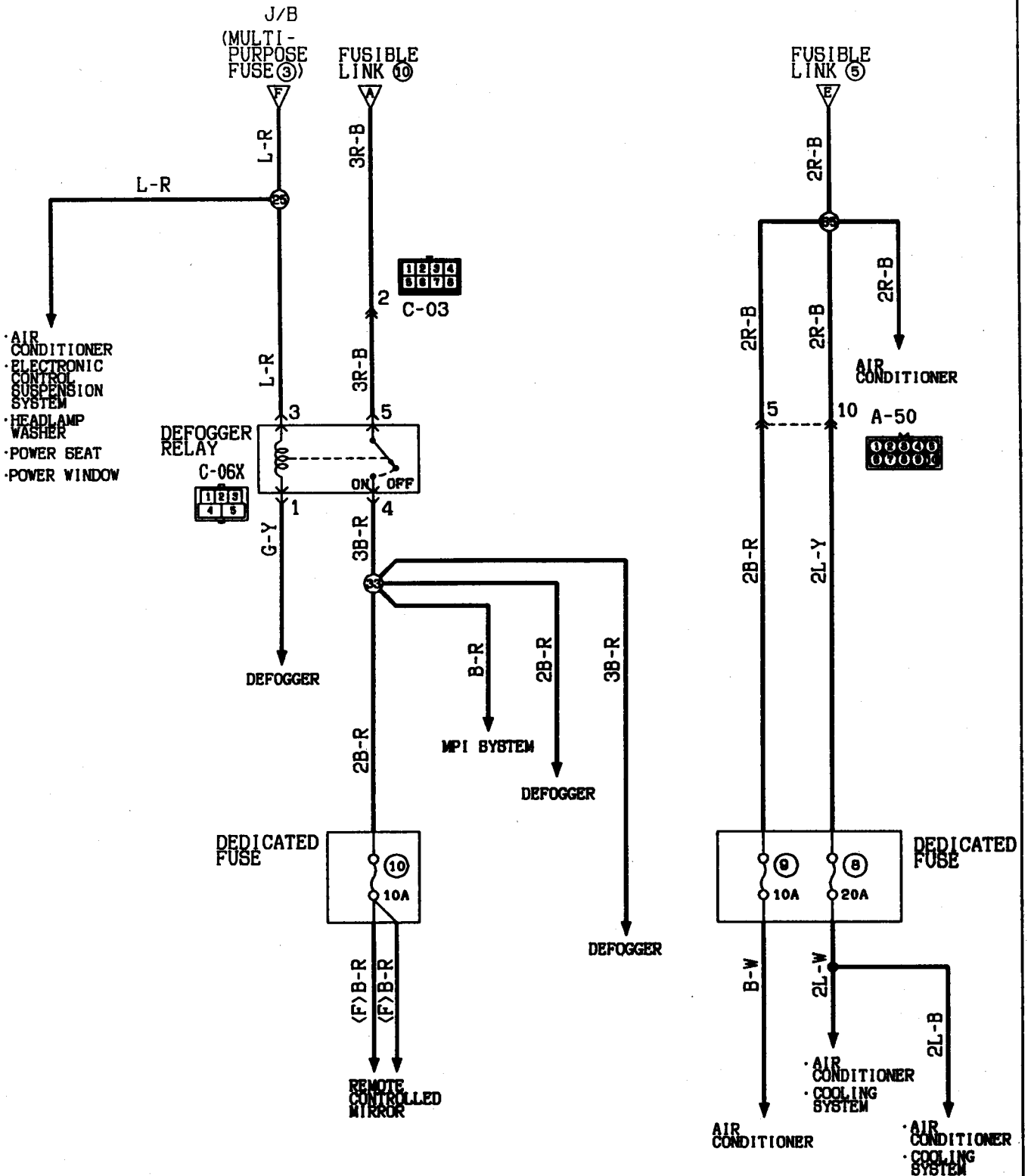


Wire colour code

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Remark
 The above circuit diagram shows the current flow at the ignition key position "ACC", "ON" and "ST" combined. Be sure trace the appropriate circuit depending on the ignition key position.

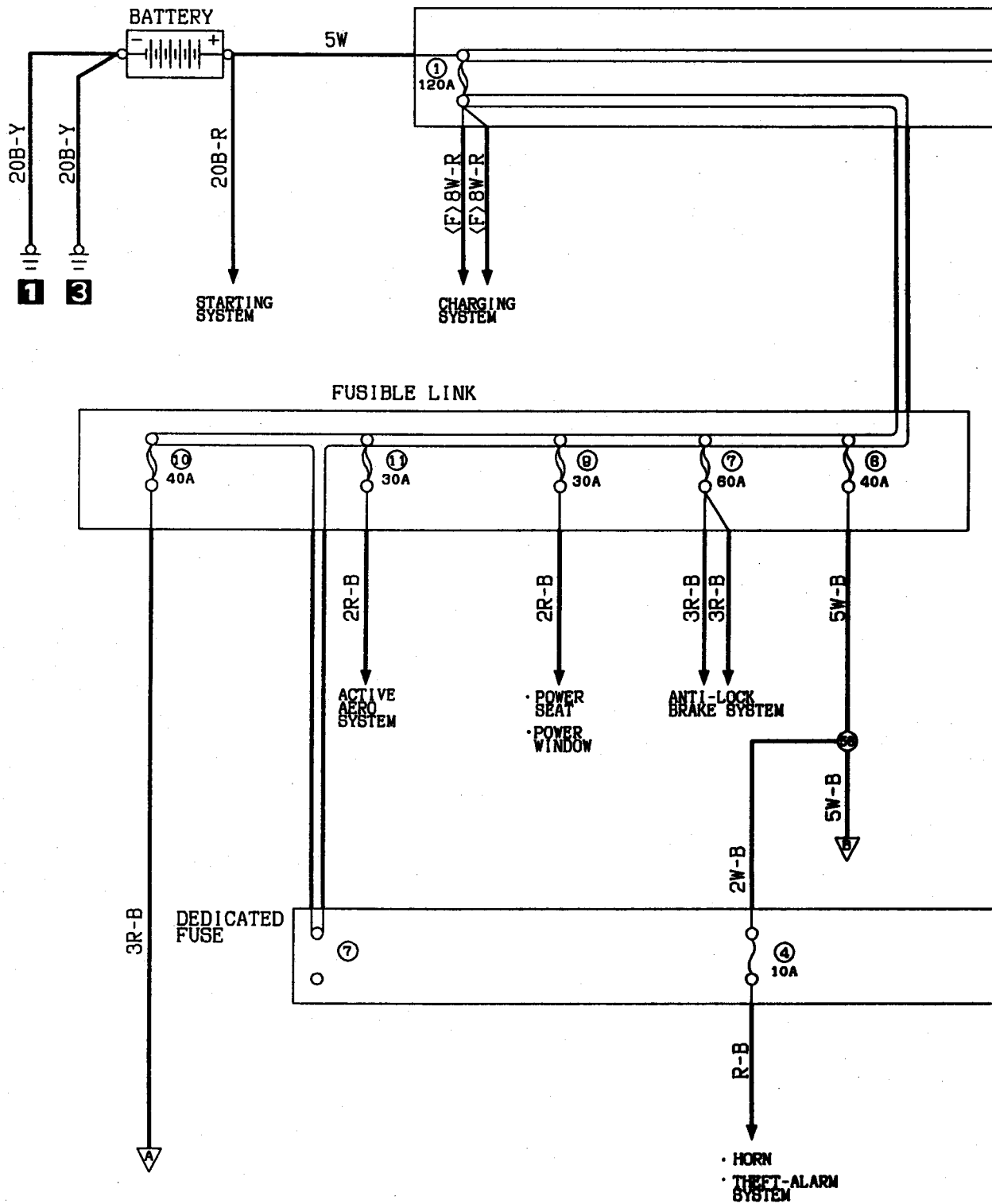




Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

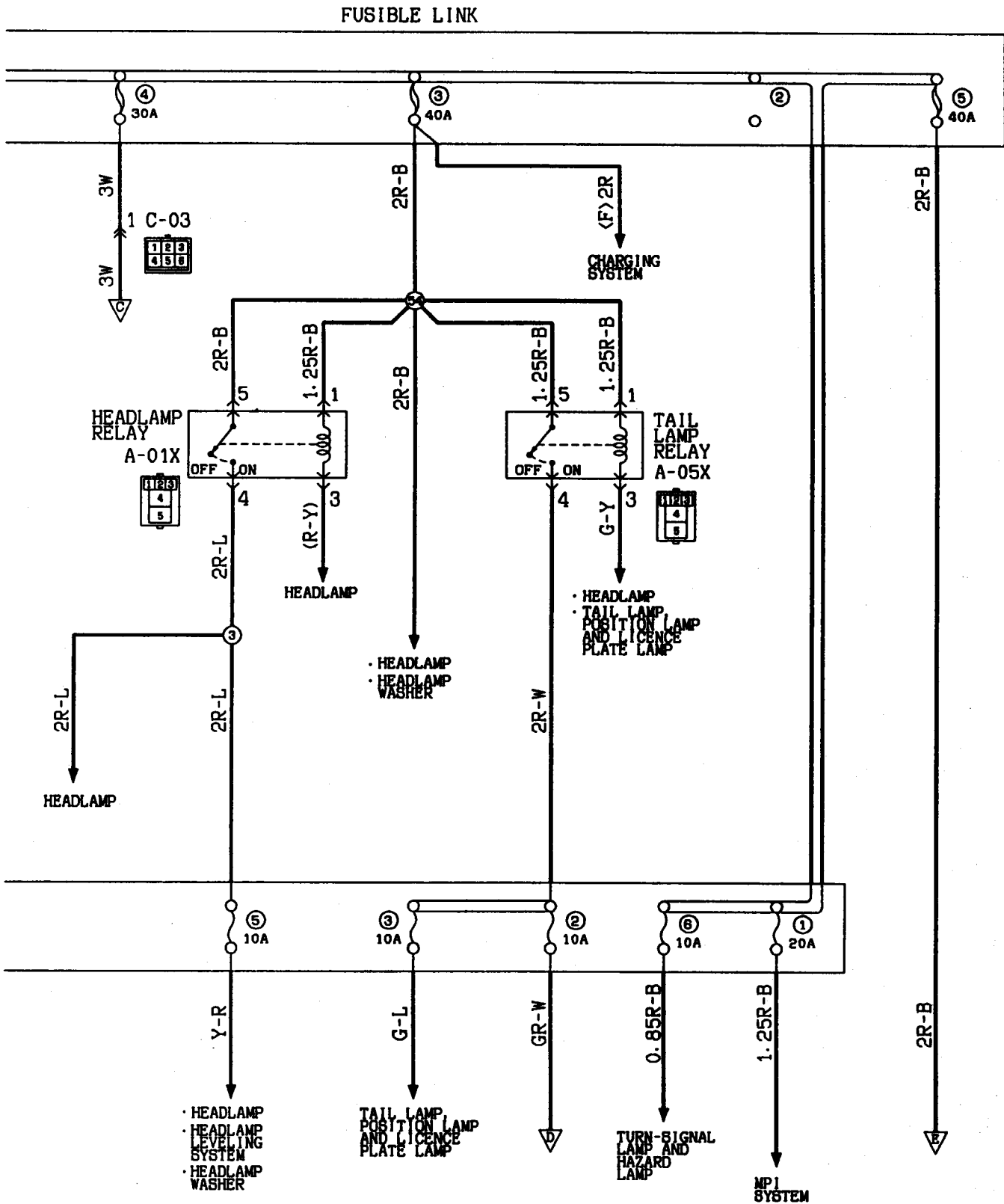
POWER DISTRIBUTION SYSTEM

R. H. drive vehicles

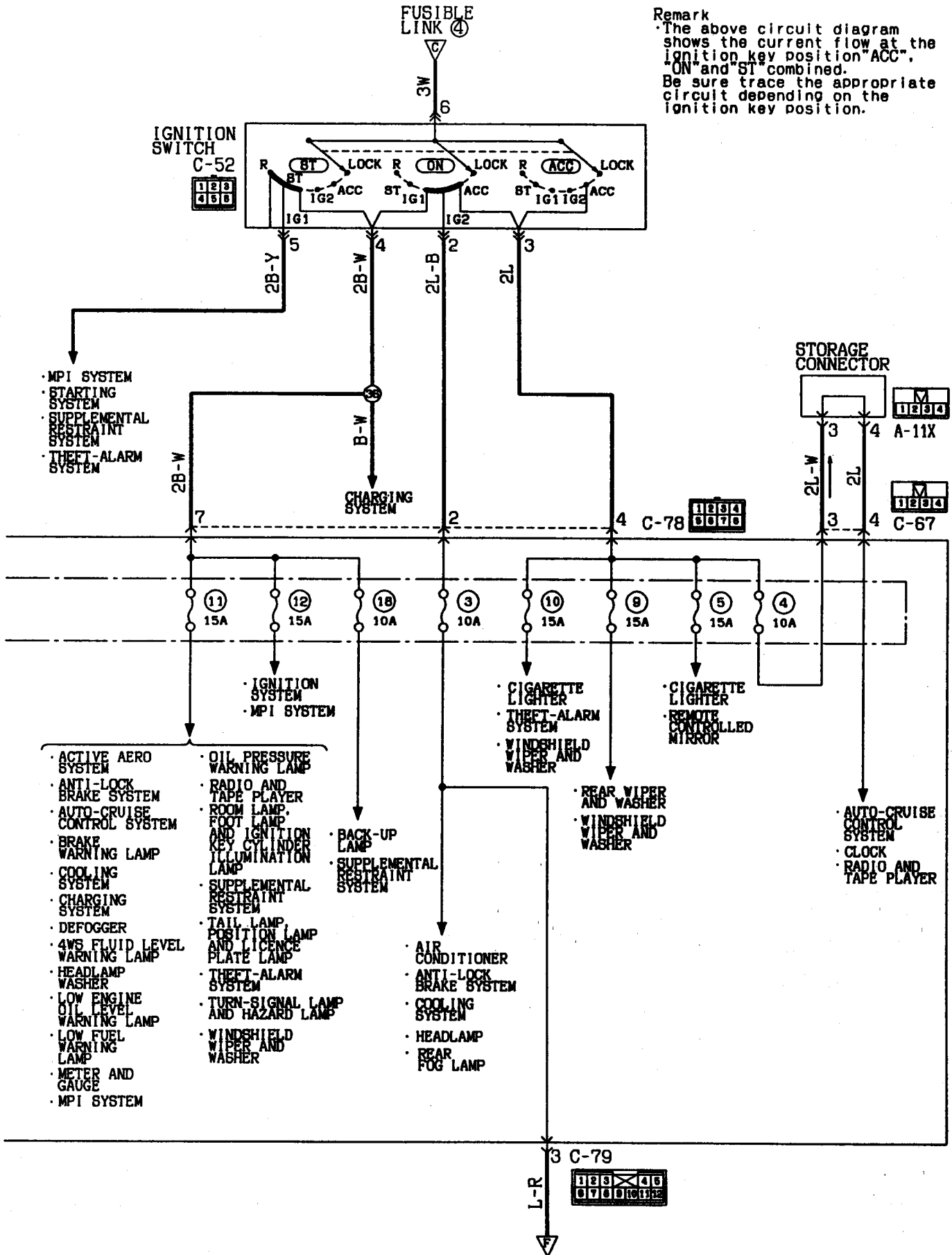


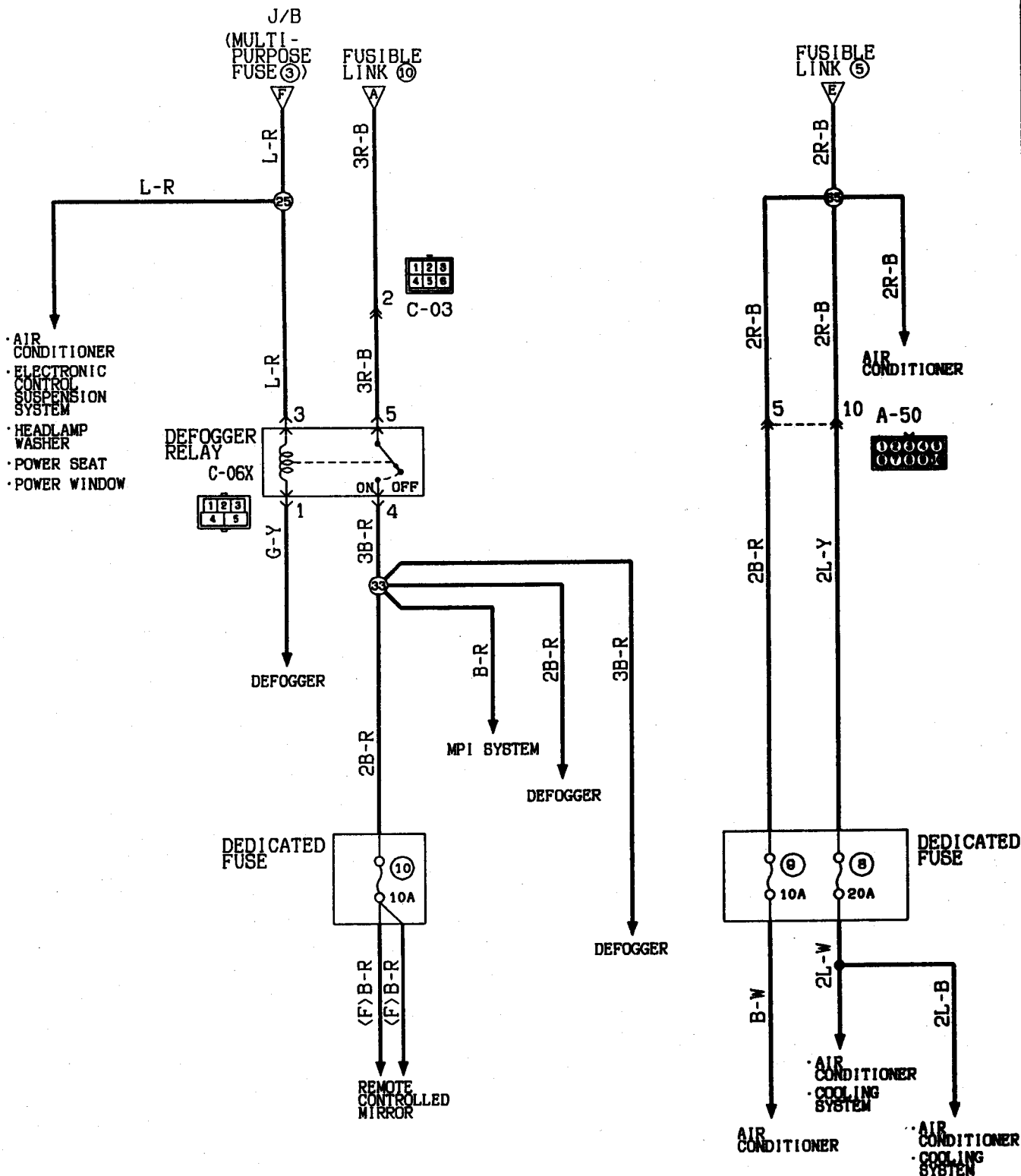
Wire colour code

B:Black LG:Light green G:Green L:Blue V:White Y:Yellow SB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



Remark
 The above circuit diagram shows the current flow at the ignition key position "ACC", "ON" and "ST" combined. Be sure trace the appropriate circuit depending on the ignition key position.



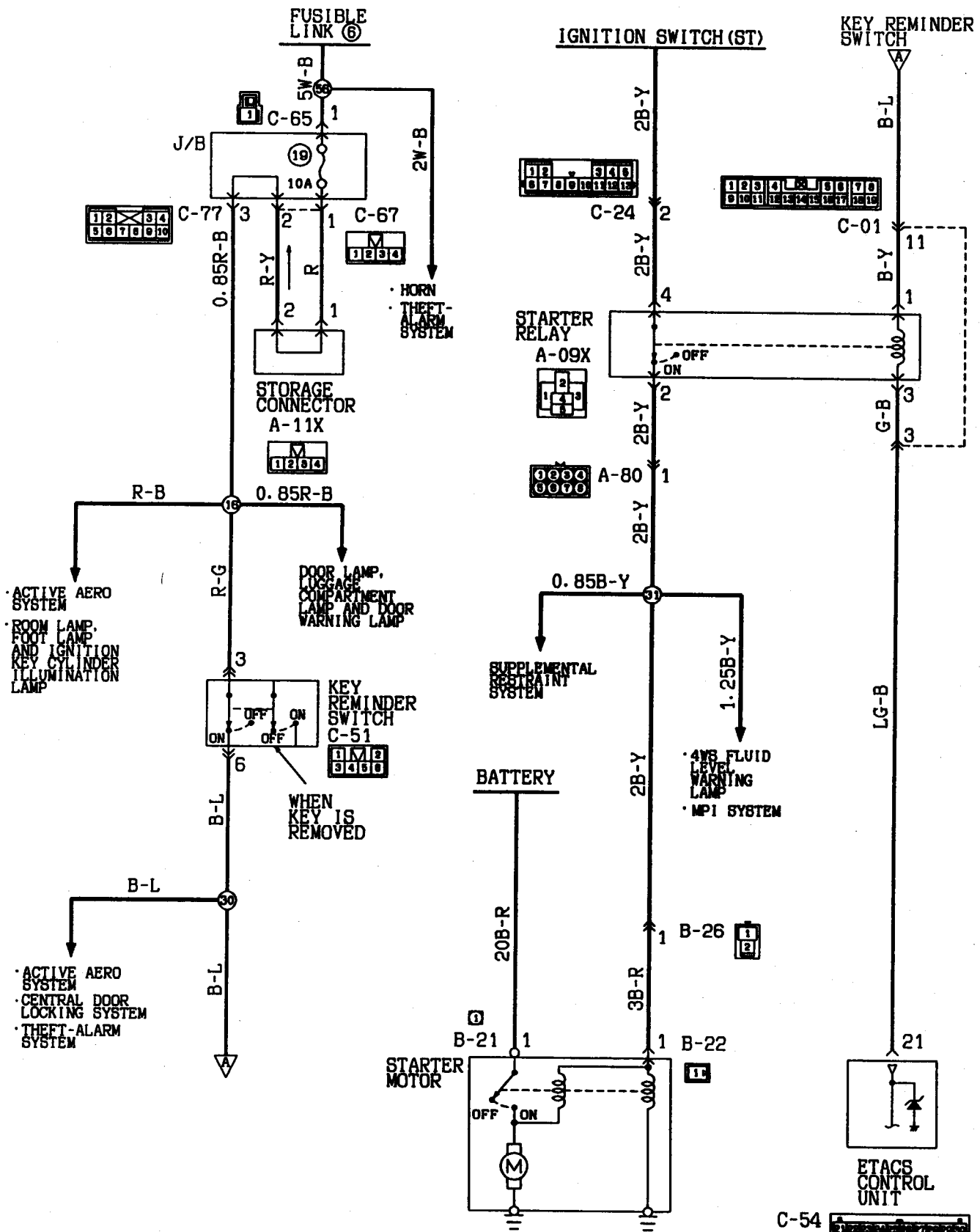


KX35-AC-R0108B-EC

Wire colour code	LG:Light green	G:Green	L:Blue	V:White	Y:Yellow	BB:Sky blue
B:Black	O:Orange	GR:Gray	R:Red	P:Pink	V:Violet	
BR:Brown						

STARTING SYSTEM

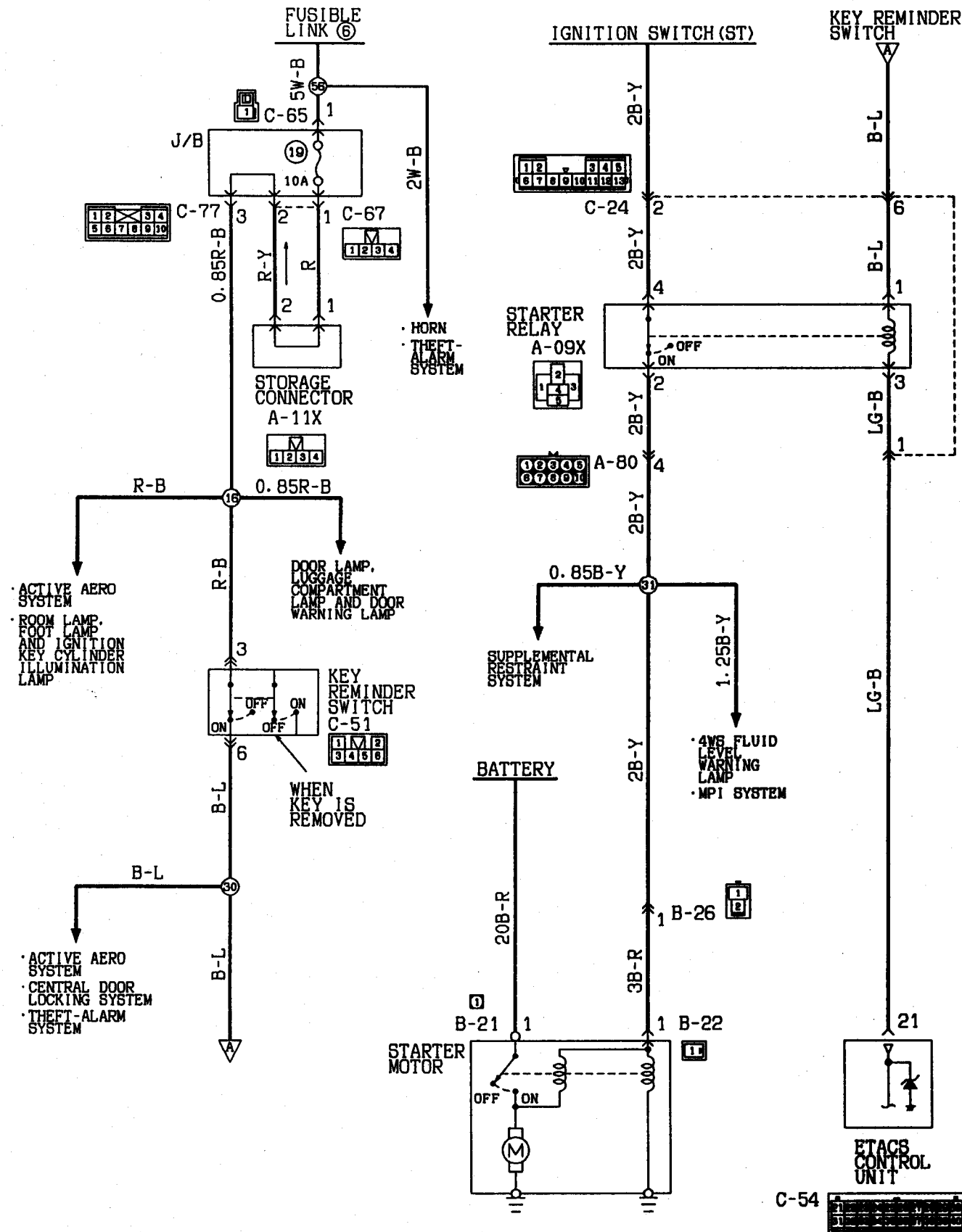
L.H. drive vehicles with theft-alarm system



Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet SB:Sky blue

STARTING SYSTEM

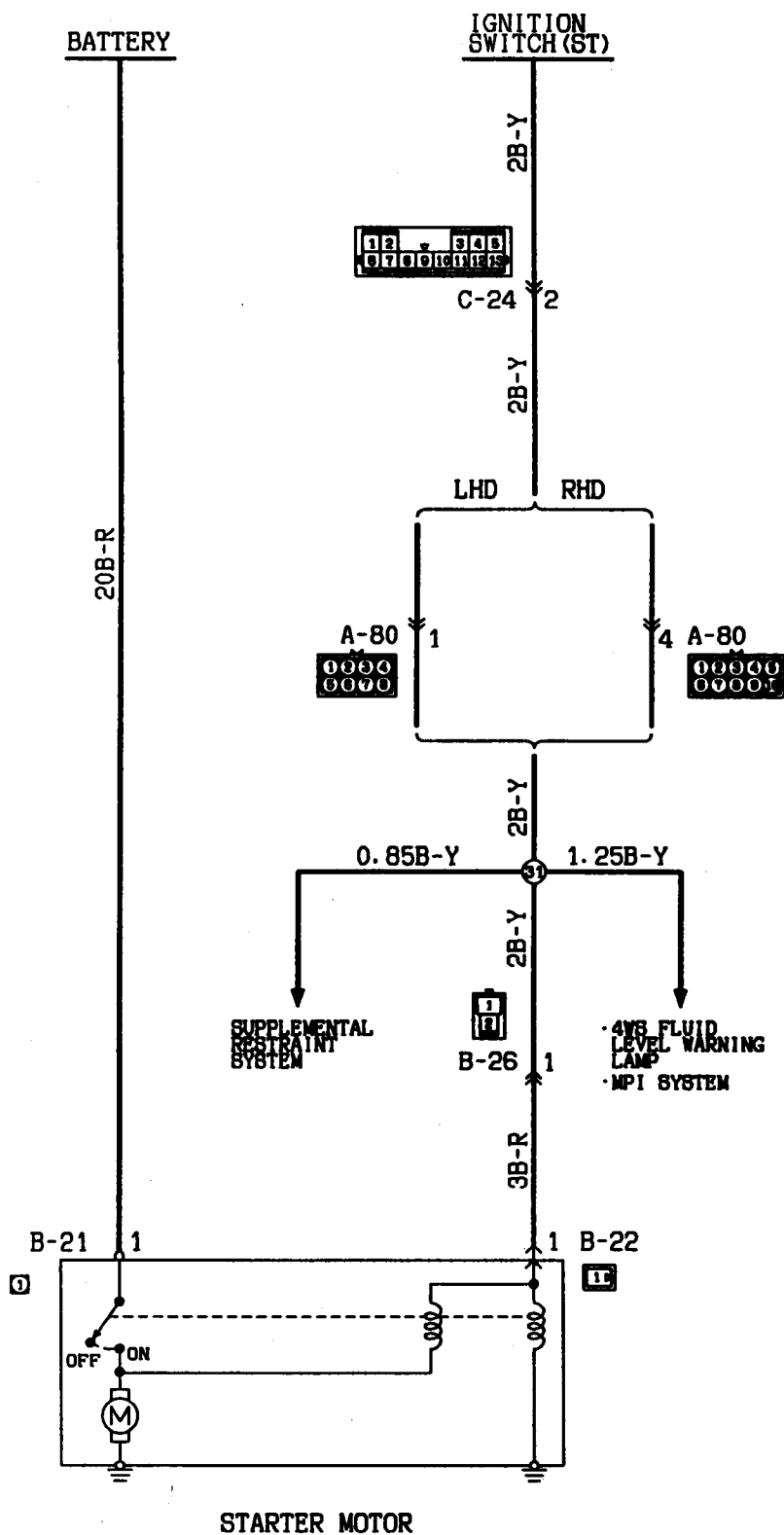
R.H. drive vehicles with theft-alarm system



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

STARTING SYSTEM

Vehicles without theft-alarm system



Wire colour code

B:Black LG:Light green G:Green L:Blue Y:White Y:Yellow BB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

STARTING SYSTEM (See P. 4B-22, 23, 24.)**OPERATION**

- When the ignition switch is switched to the "ST" position, the contact (magnetic switch) of the starter is switched ON and the starter motor is activated.

<Vehicles with theft-alarm system>

- The transistor inside the ETACS control unit is switched ON if a vehicle door is opened without using the key. This turns the starter relay OFF, and power ceases to be supplied to the starter magnet switch.

IGNITION SYSTEM (See P. 4B-26.)**OPERATION**

- Turn ignition switch to "ON" position, and battery voltage will be applied to primary winding of ignition coil.
- When crank angle sensor signal is input to engine control unit, engine control unit makes ON-OFF control of power transistors one by one.
- When power transistor A is turned from ON to OFF, the spark plugs of No. 1 and No. 4 cylinders spark. Turning of power transistor B from ON to OFF will produce sparking in spark plugs of No. 2 and No. 5 cylinders. Furthermore, when power transistor C is turned from ON to OFF, sparking is produced in spark plugs of No. 3 and No. 6 cylinders.

TROUBLESHOOTING HINTS

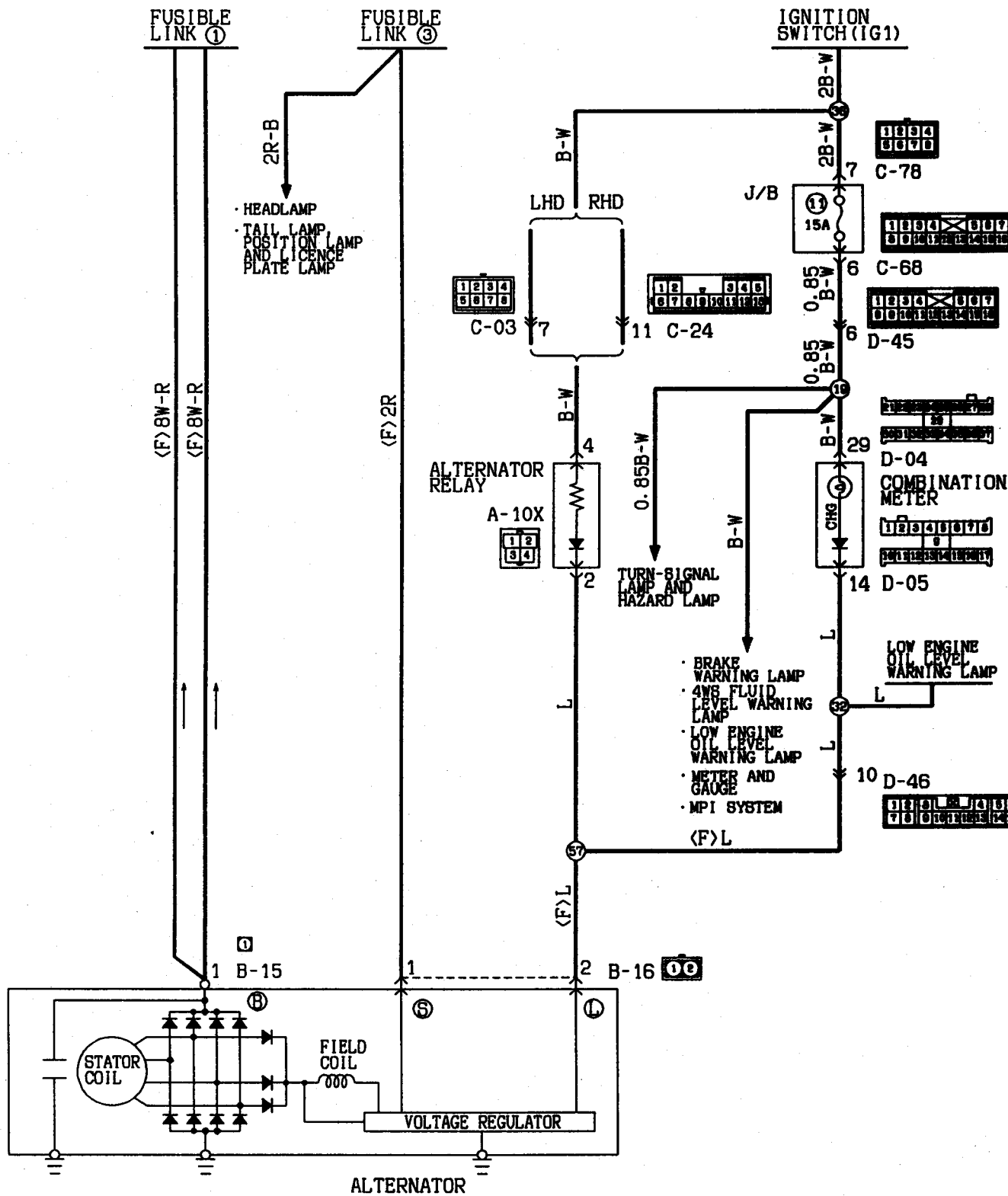
The starter motor does not operate at all.

- Check the starter (coil).
- Check for poor contact at the battery terminals and starter.
- Check starter relay. <with theft-alarm system>
- Check key reminder switch. <with theft-alarm system>

TROUBLESHOOTING HINTS

1. Engine cranks, but does not start.
 - (1) Spark is insufficient or does not occur at all (on spark plug).
 - Check ignition coil.
 - Check crank angle sensor.
 - Check power transistor.
 - Check spark plugs.
 - Check spark plug cable.
 - (2) Spark is good.
 - Check ignition timing.
2. Engine idles roughly or stalls.
 - Check spark plugs.
 - Check ignition timing.
 - Check ignition coil.
 - Check spark plug cable.
3. Poor acceleration
 - Check ignition timing.
 - Check spark plug cable.
 - Check ignition coil.

CHARGING SYSTEM



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

CHARGING SYSTEM (See P. 4B-27.)**OPERATION****When engine is stopped**

When the ignition switch is switched to the "ON" position, electricity flows from the "L" terminal of the alternator to the field coil, and at the same time the charging warning lamp illuminates.

When engine is being started/has started

When the engine is started, charging voltage is applied to the "L" terminal of the alternator, with the result that the charging warning lamp is extinguished. In addition, because battery voltage is applied to the "S" terminal of the alternator, this battery voltage is monitored at the IC voltage regulator, thus switching ON and OFF the current to the field coil and thereby controlling the output voltage of the alternator. Power is supplied to each load from the "B" terminal of the alternator.

NOTE

The alternator relay functions as a back-up for the flow of electricity to the field coil if there is a disconnection or damaged wiring of the charging warning lamp.

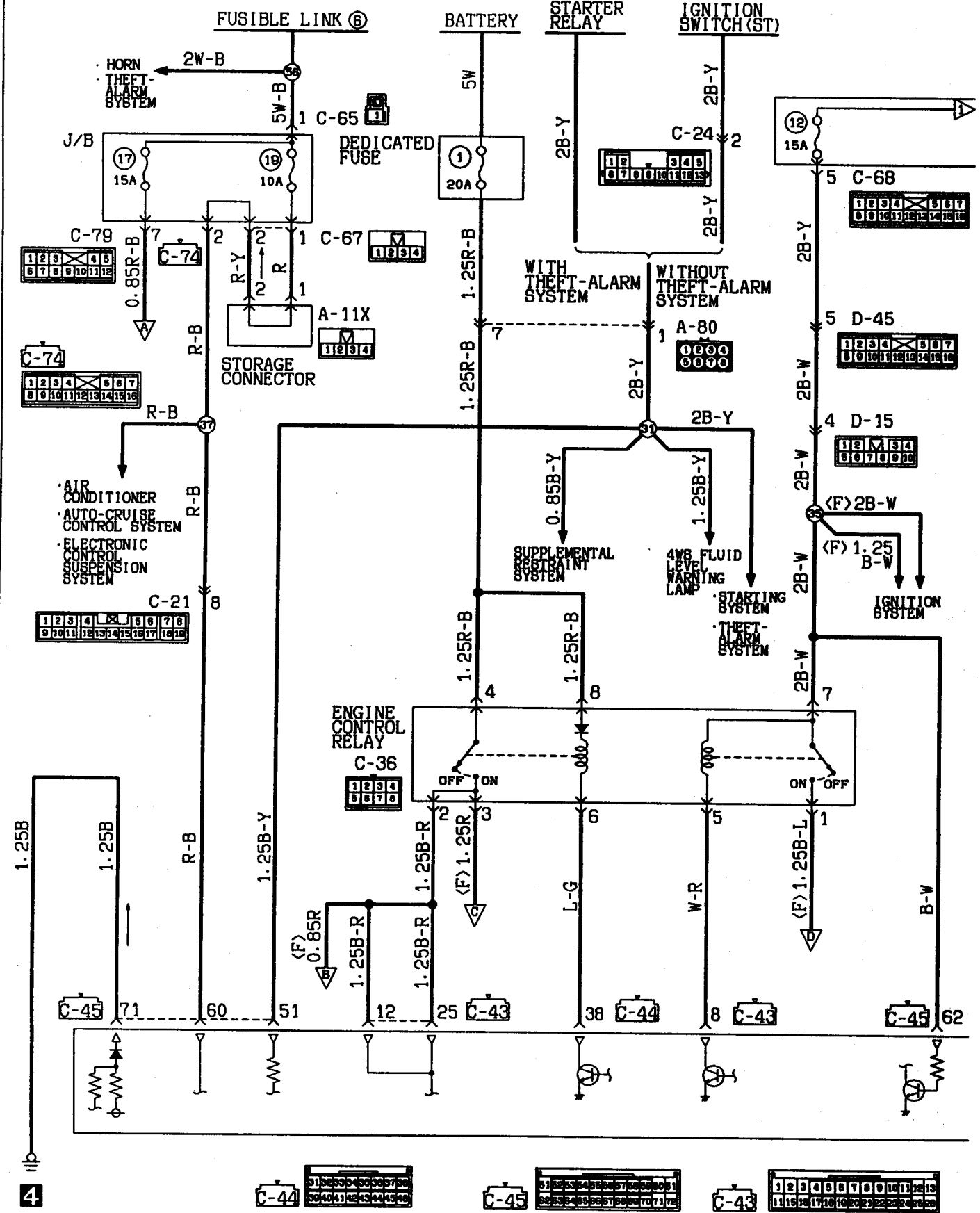
TROUBLESHOOTING HINTS

1. Charging warning lamp does not go on when the ignition switch is turned to "ON", before the engine starts.
 - Check the bulb.
2. Charging warning lamp fails to go off once the engine starts.
 - Check the IC voltage regulator (located within the alternator.)
3. Discharged or overcharged battery.
 - Check the IC voltage regulator (located within the alternator).
4. The charging warning lamp illuminates dimly.
 - Check the diode (within the combination meter) for a short-circuit.

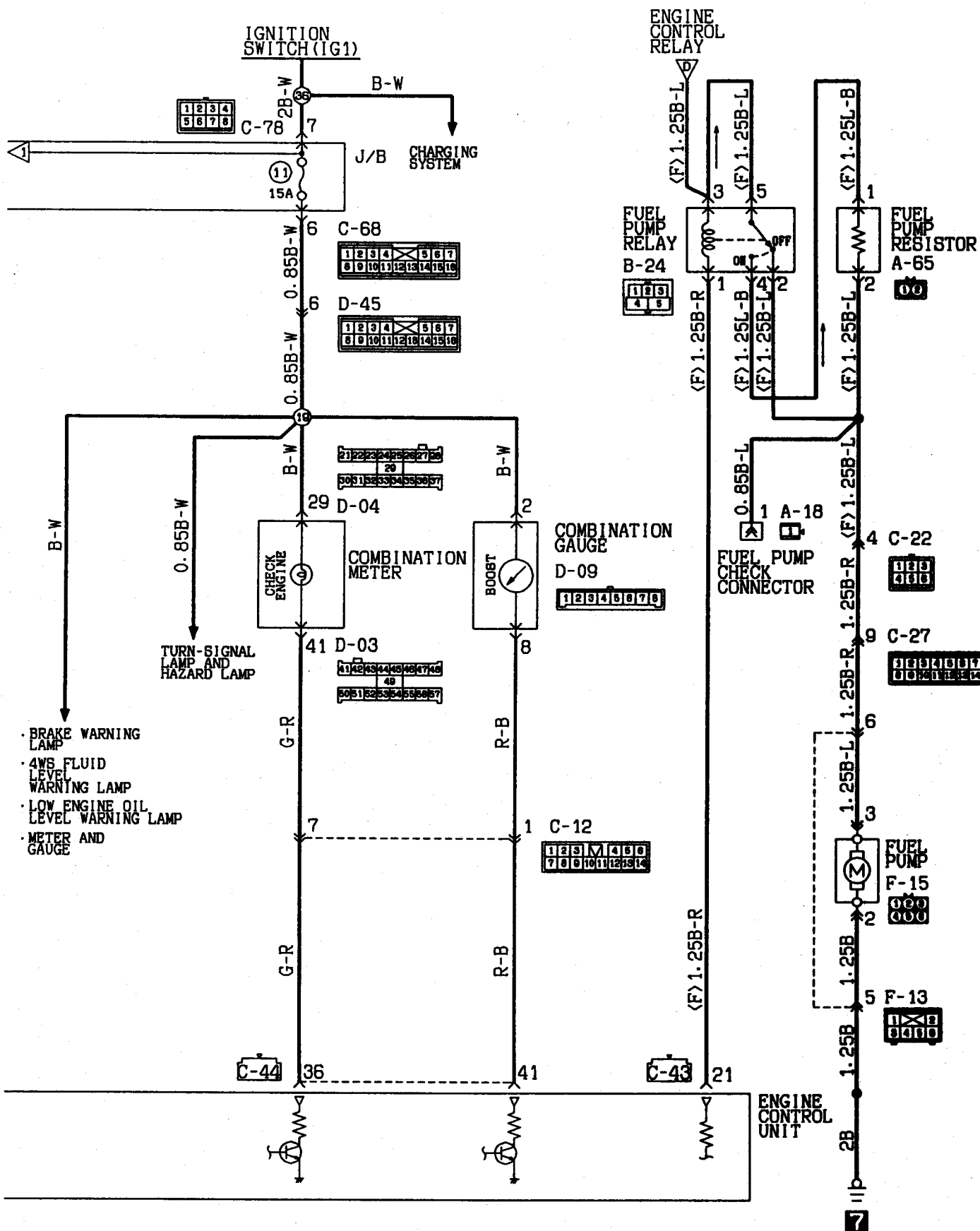
NOTES

MPI SYSTEM

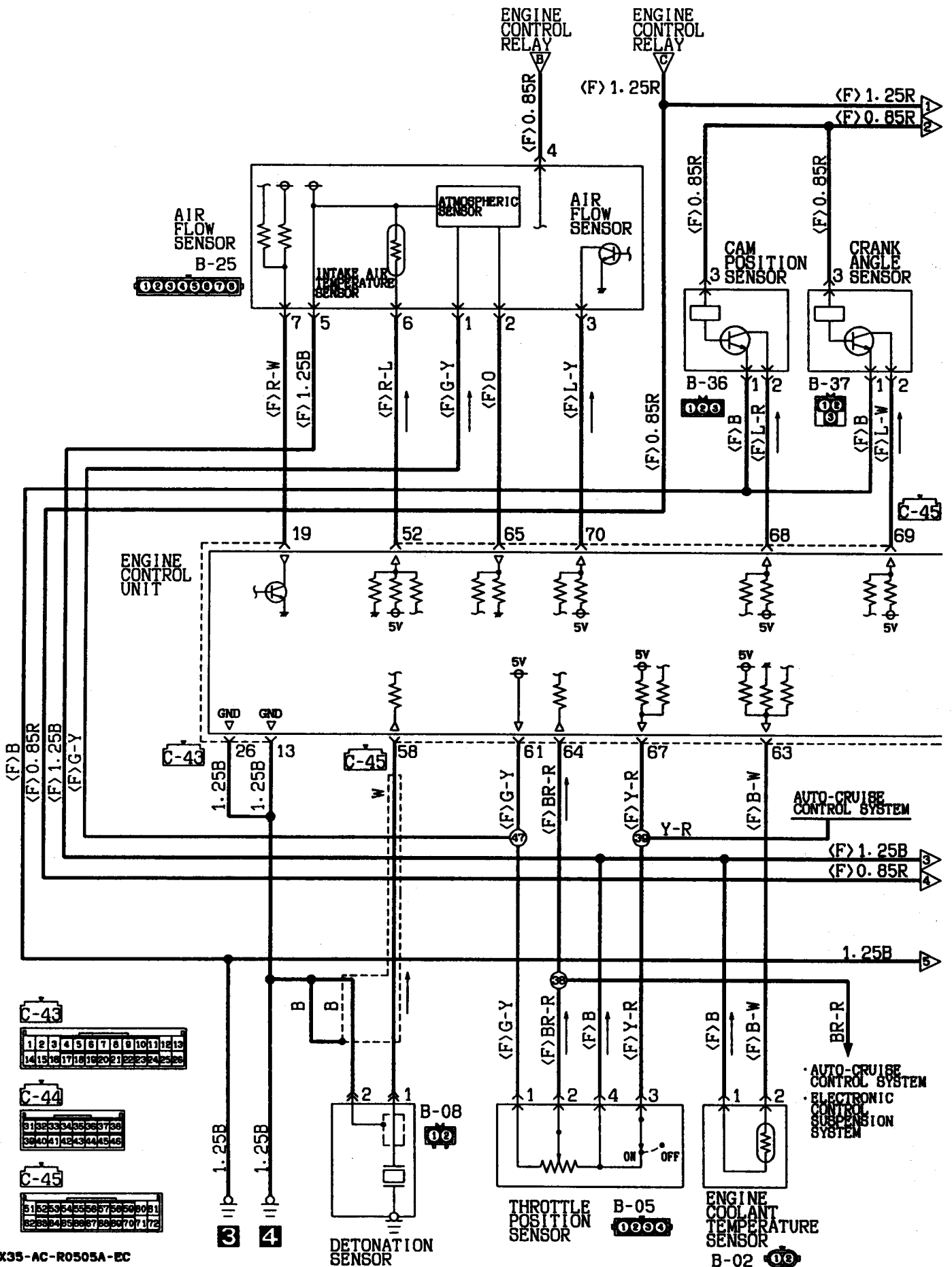
L.H. drive vehicles

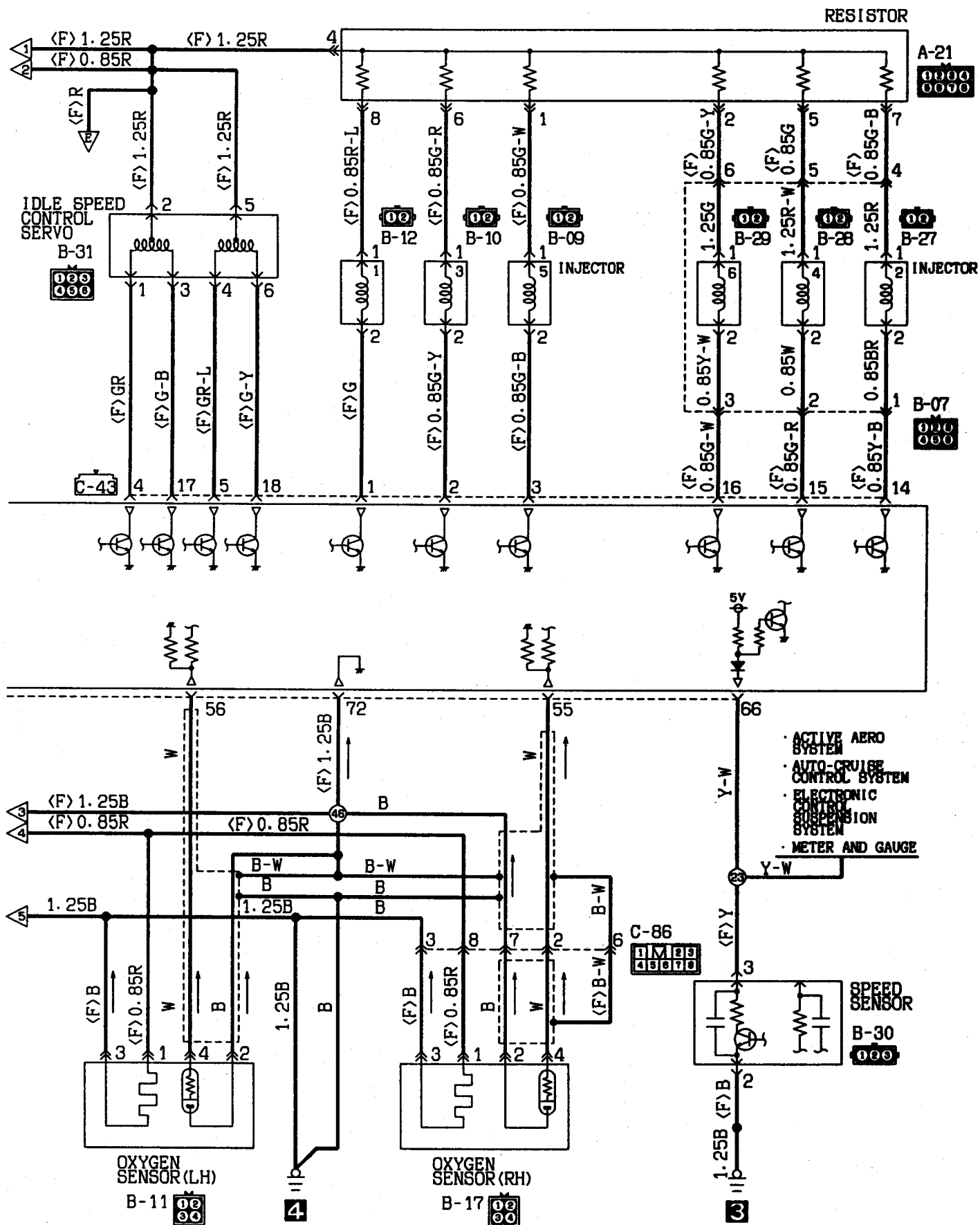


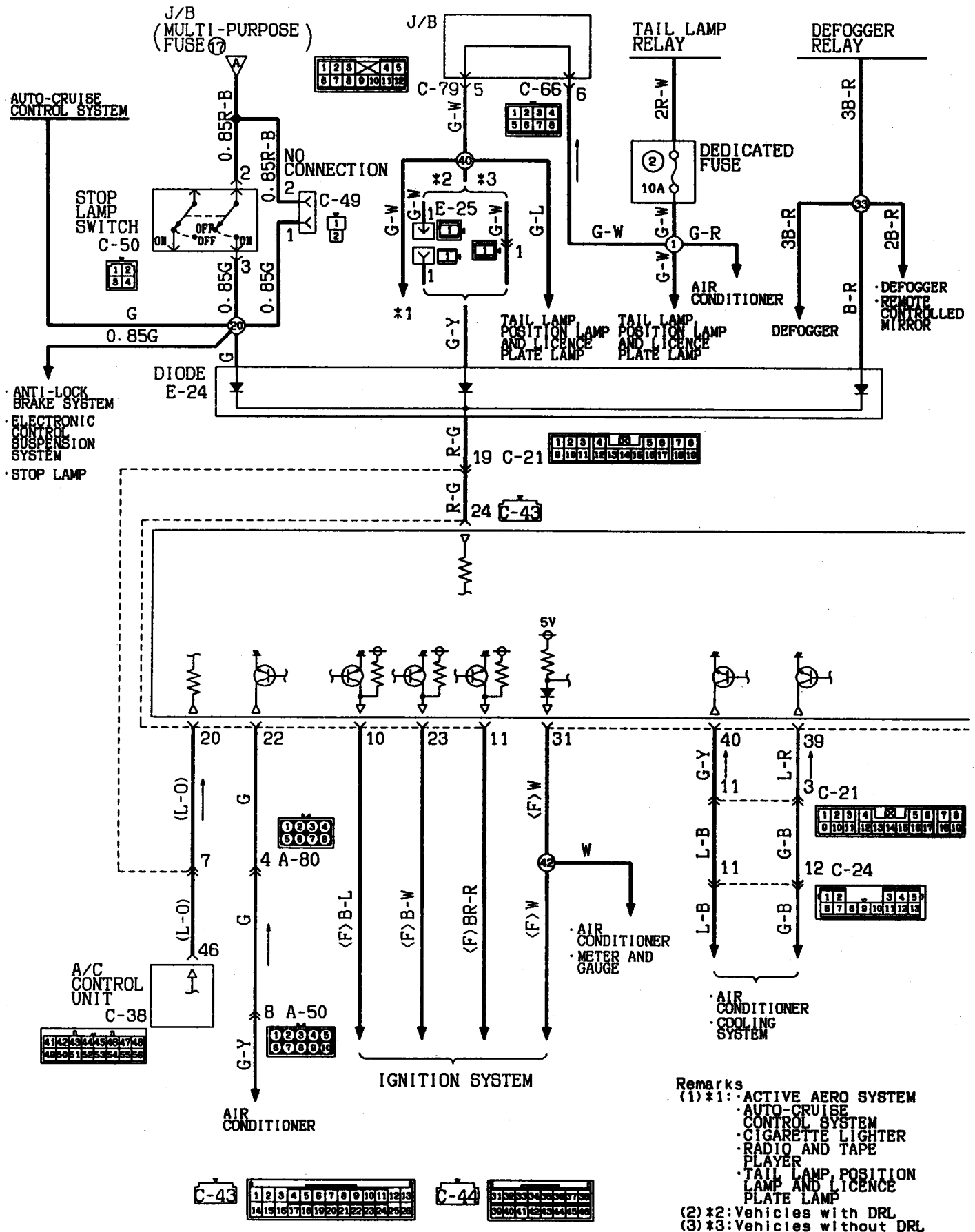
KX35-AC-R0505-EC



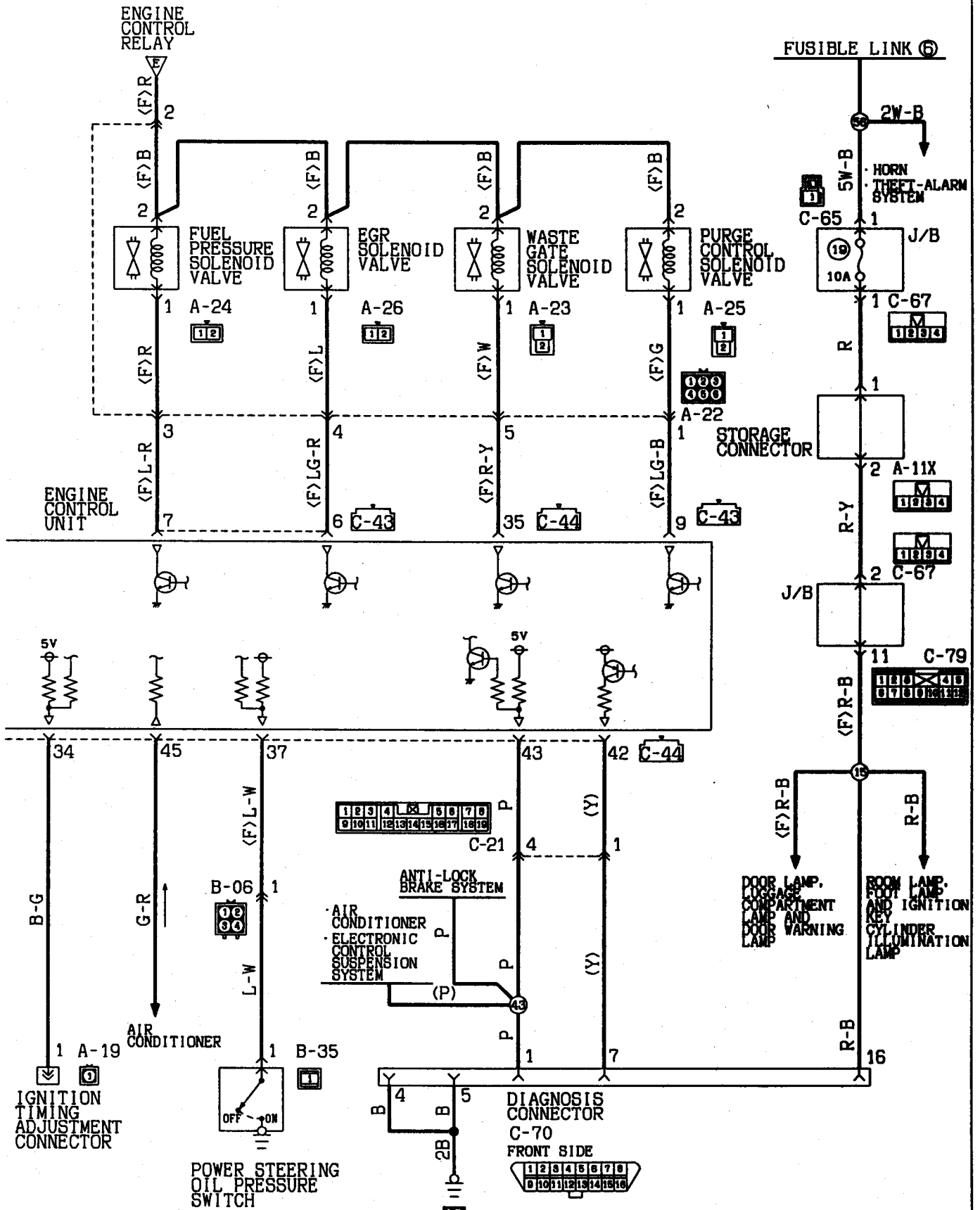
Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet





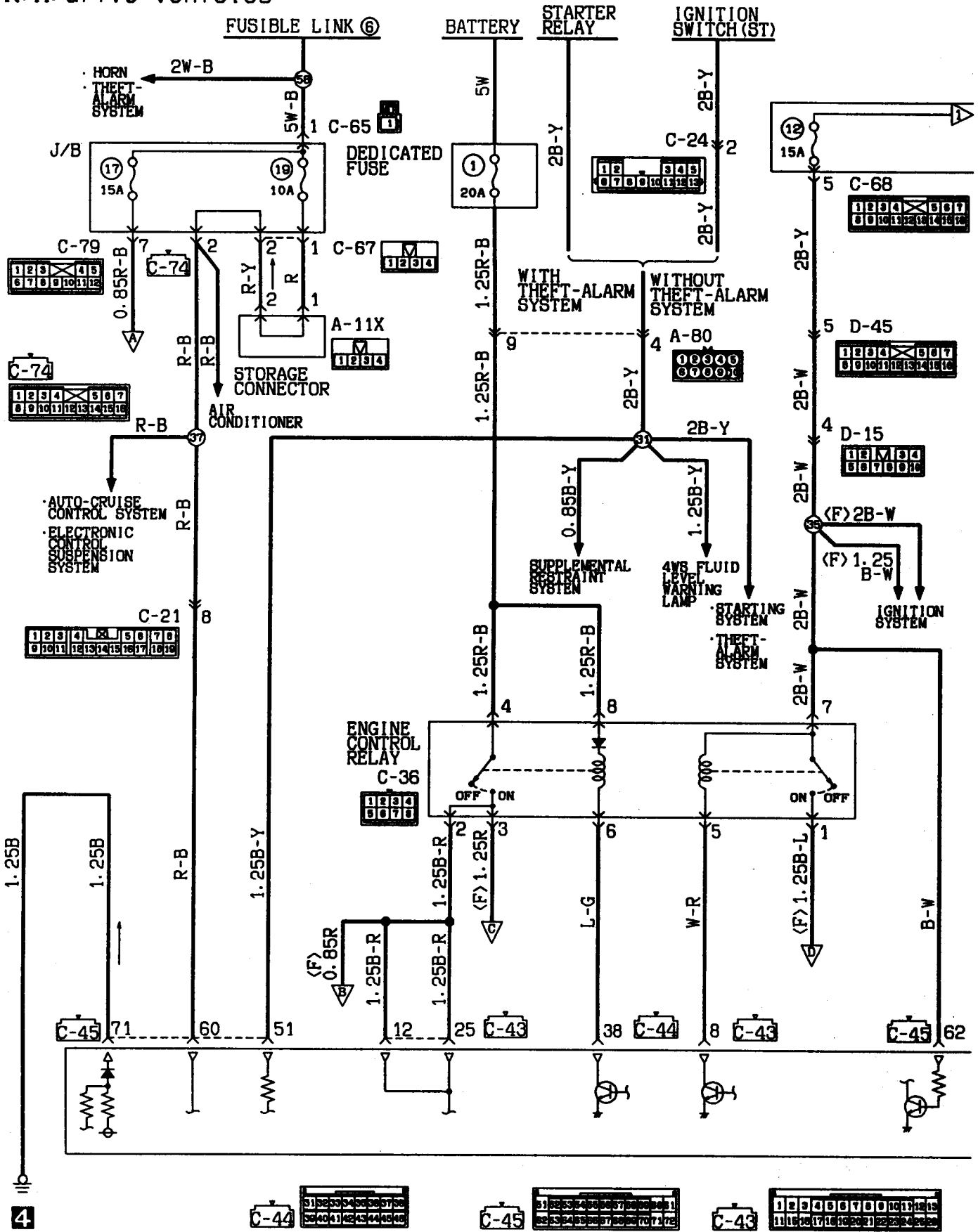


Remarks
 (1)*1: ACTIVE AERO SYSTEM
 AUTO-CRUISE CONTROL SYSTEM
 CIGARETTE LIGHTER RADIO AND TAPE PLAYER
 TAIL LAMP POSITION LAMP AND LICENCE PLATE LAMP
 (2)*2: Vehicles with DRL
 (3)*3: Vehicles without DRL

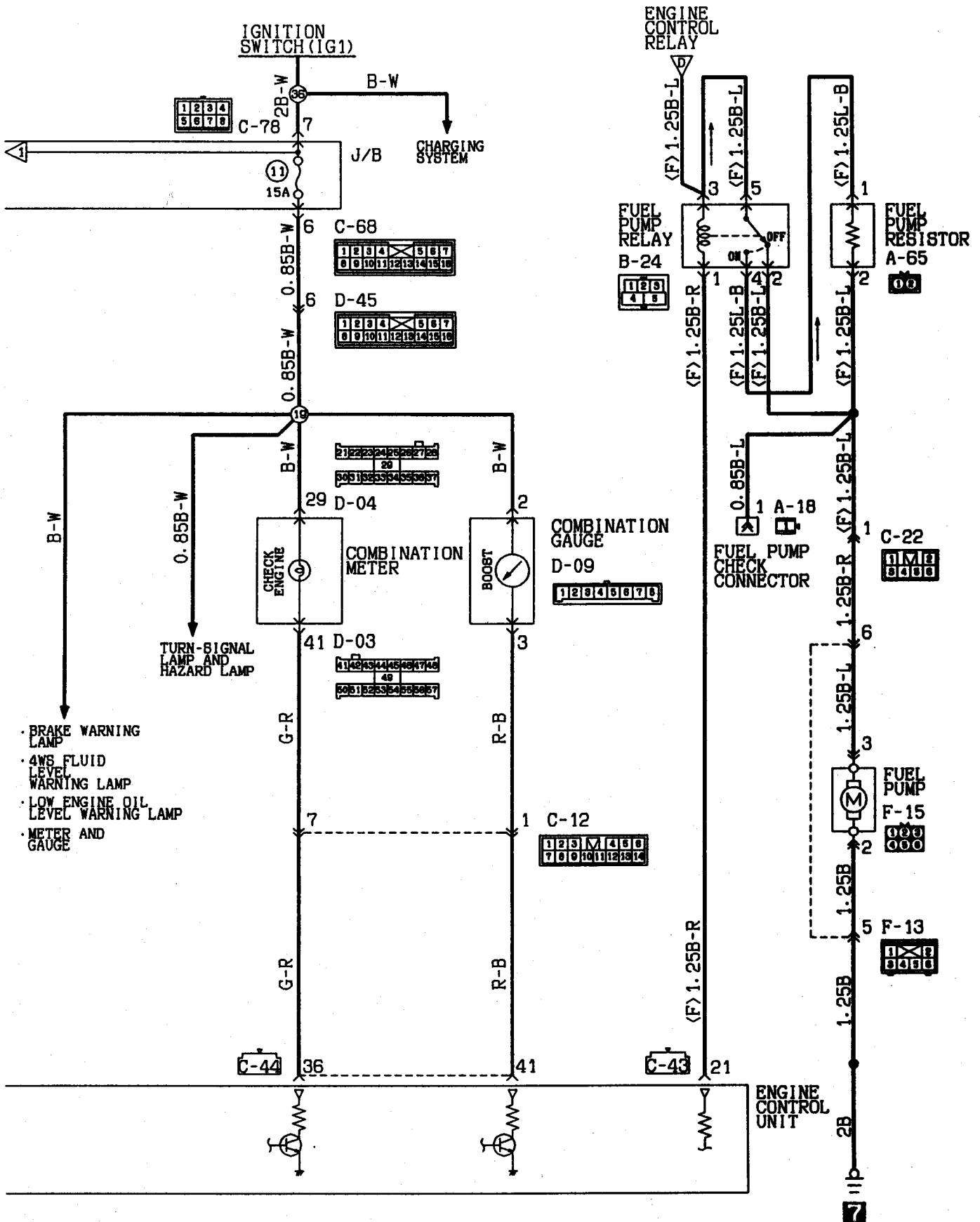


Wire colour code
 B:Black LG:Light green G:Green L:Blue W:White Y:Yellow BB:8kv blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

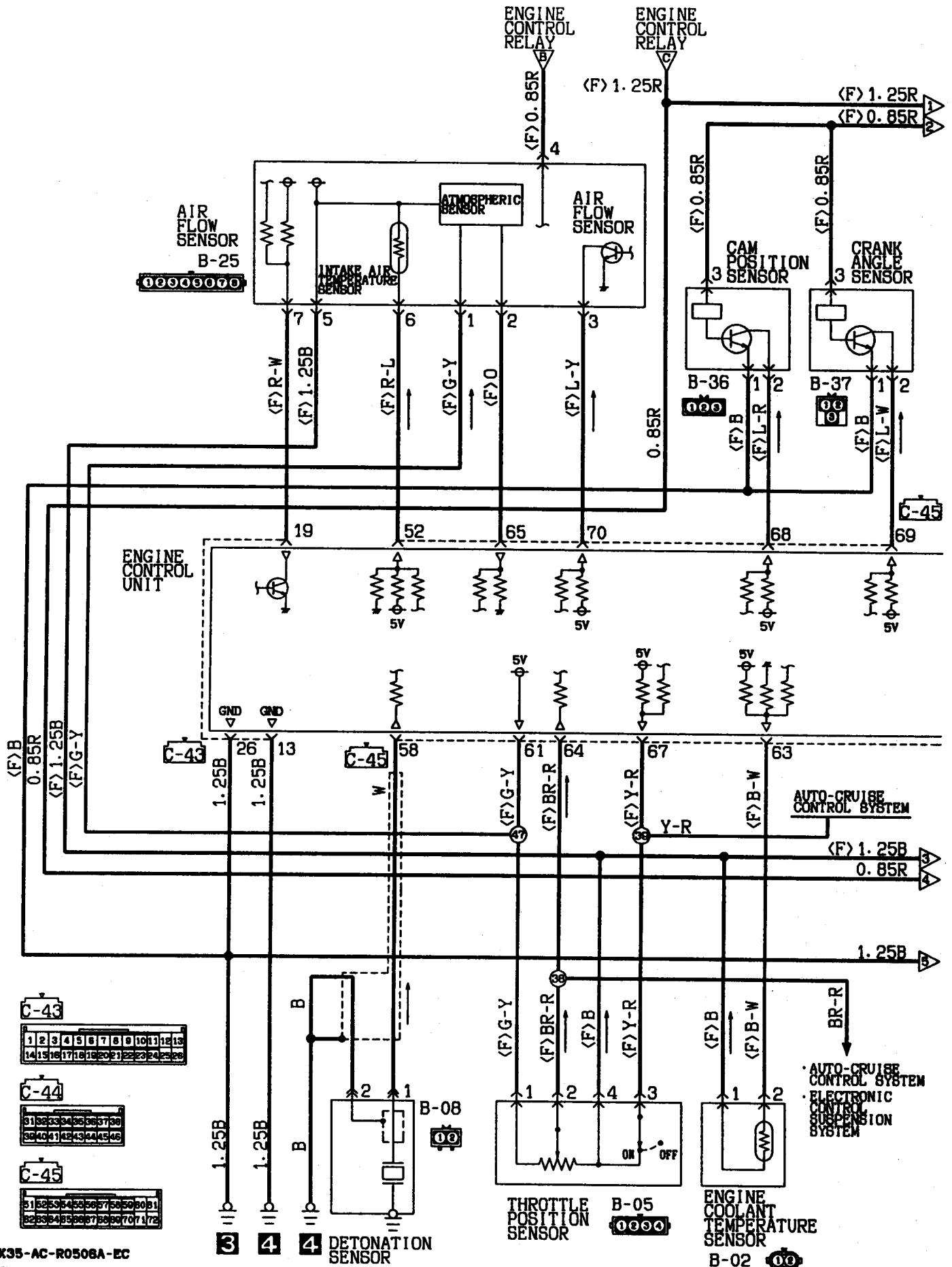
MPI SYSTEM
R.H. drive vehicles

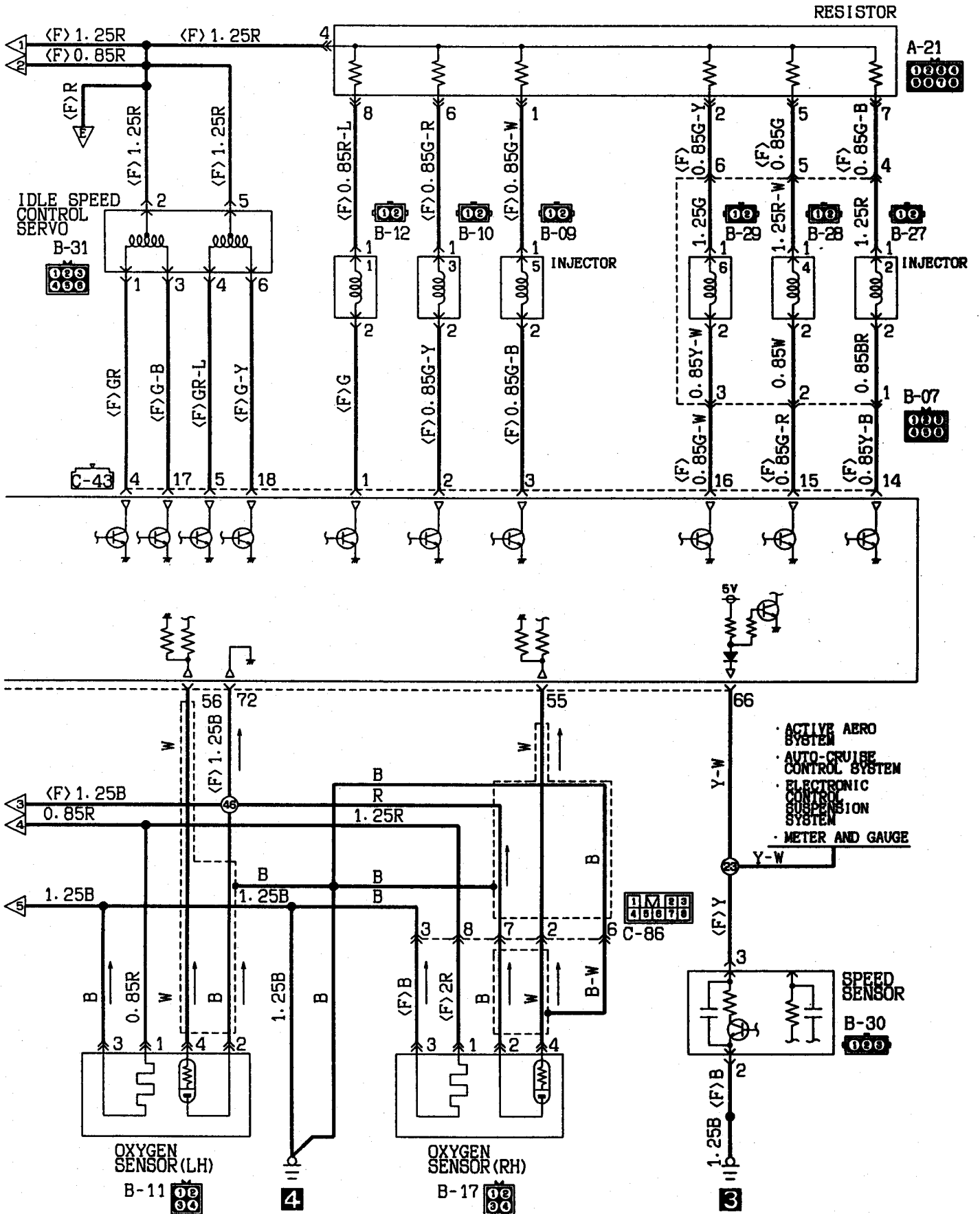


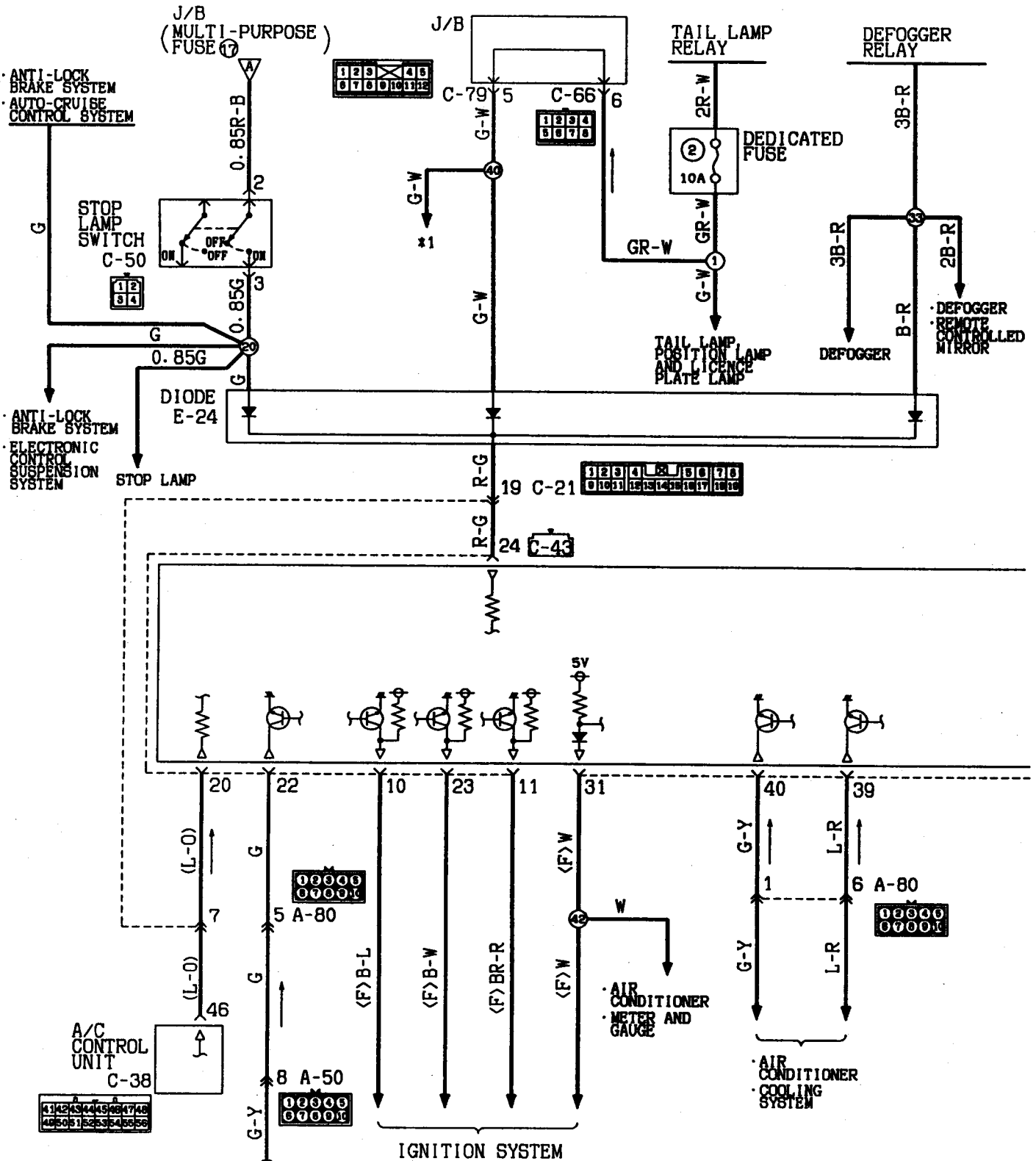
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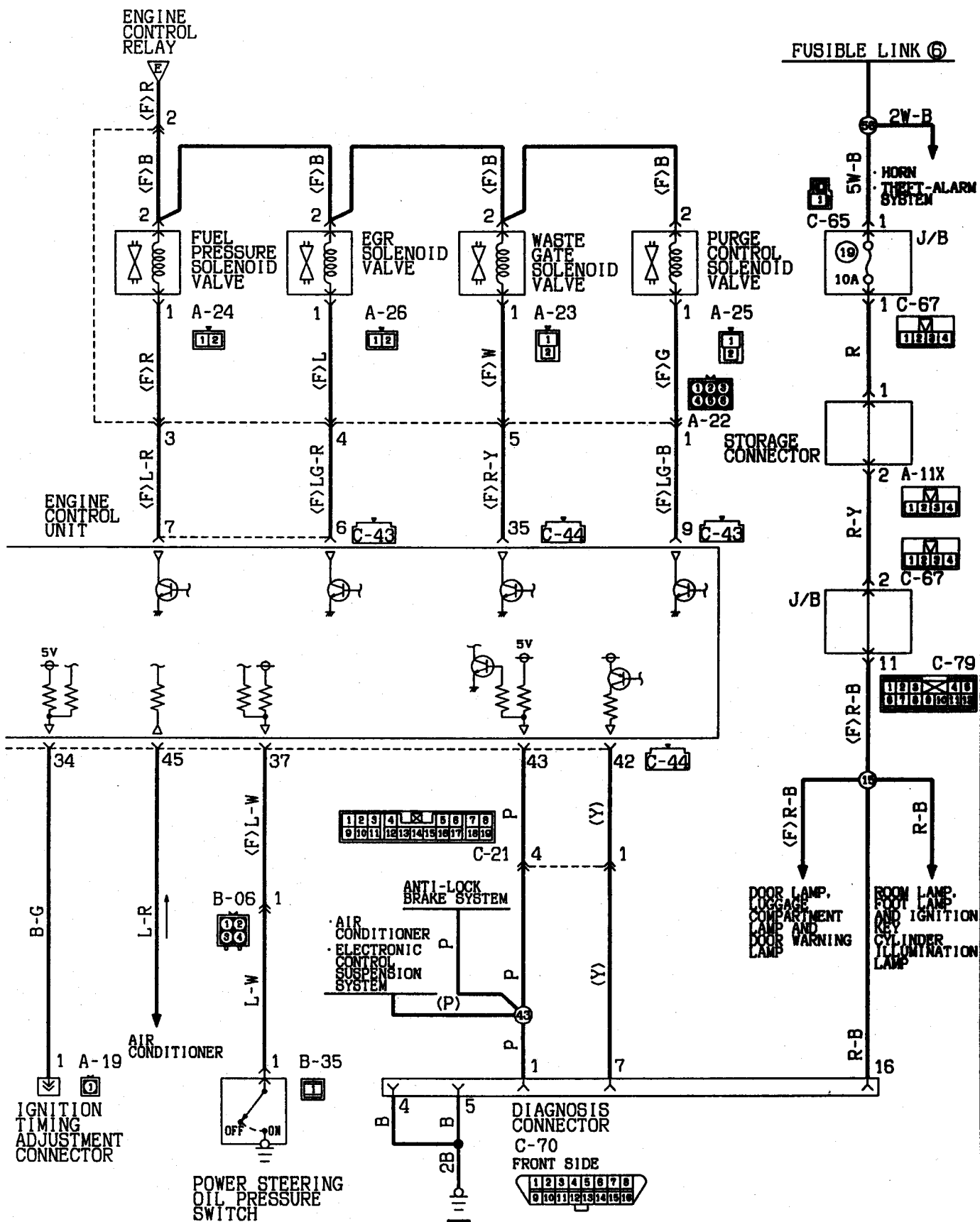
Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet







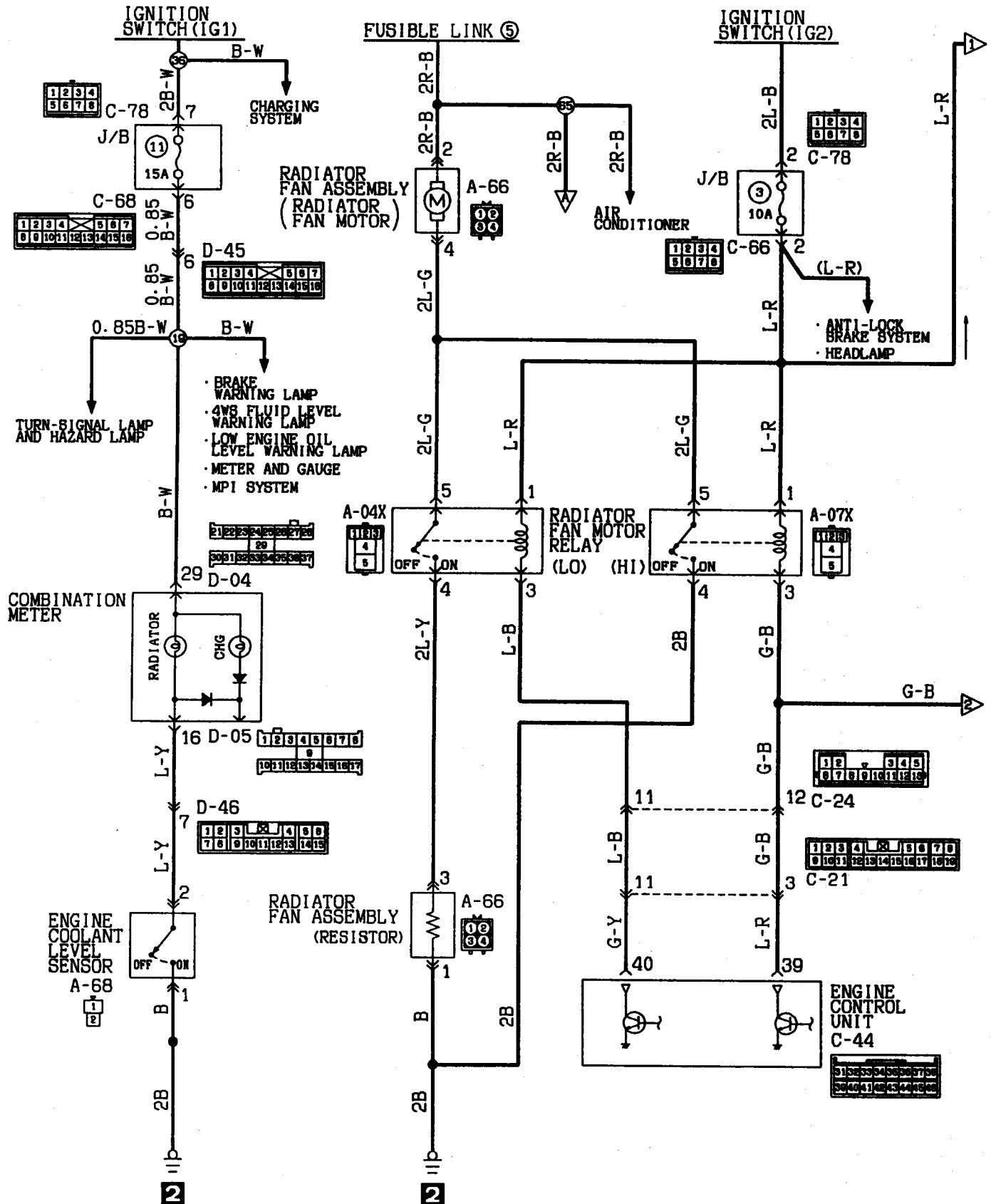
Remarks
 *1: ACTIVE AERO SYSTEM
 AIR CONDITIONER
 AUTO-CRUISE CONTROL SYSTEM
 CIGARETTE LIGHTER
 RADIO AND TAPE PLAYER
 TAIL LAMP, POSITION LAMP AND LICENCE PLATE LAMP



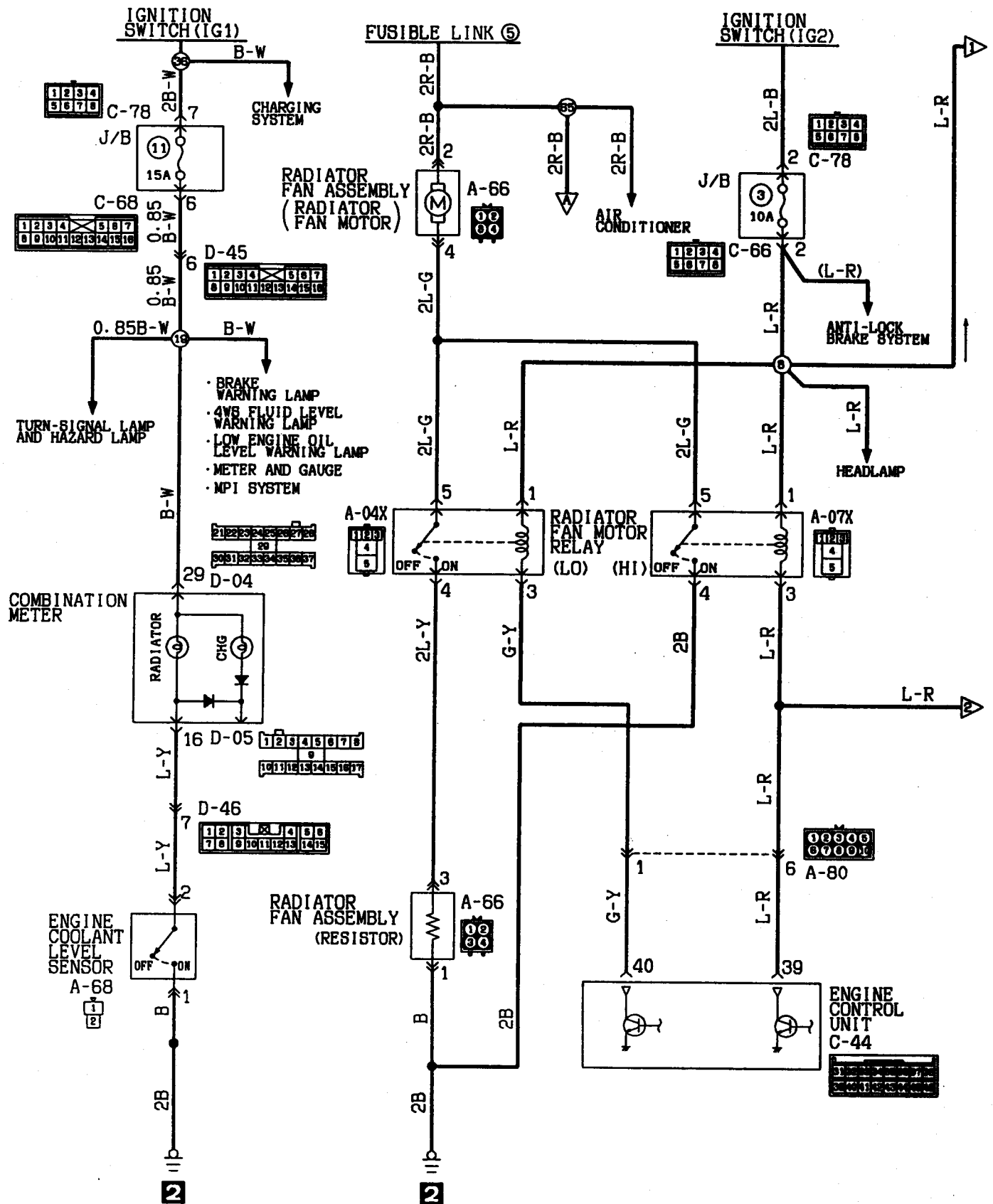
Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

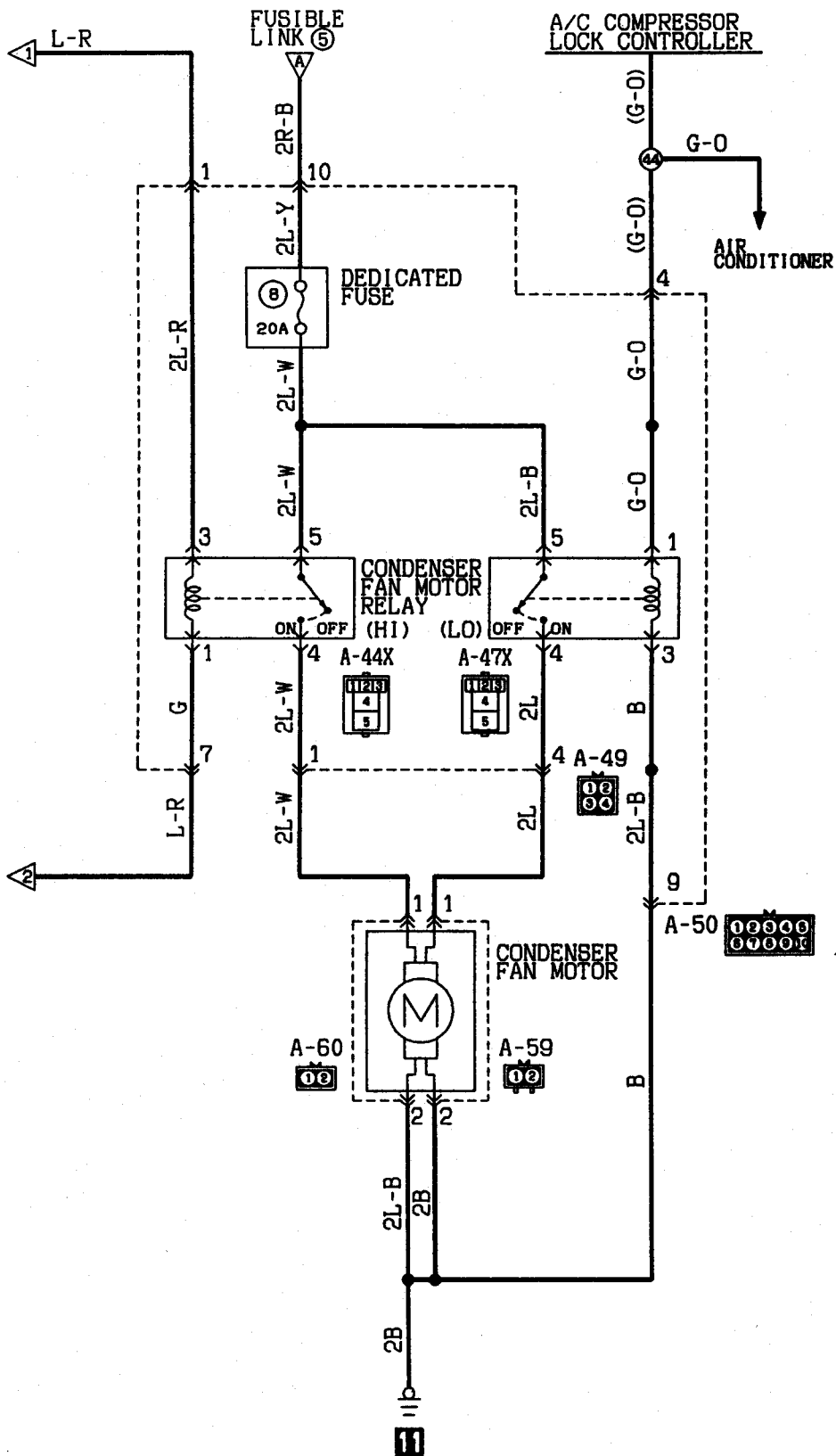
COOLING SYSTEM

L.H. drive vehicles



COOLING SYSTEM
R. H. drive vehicles

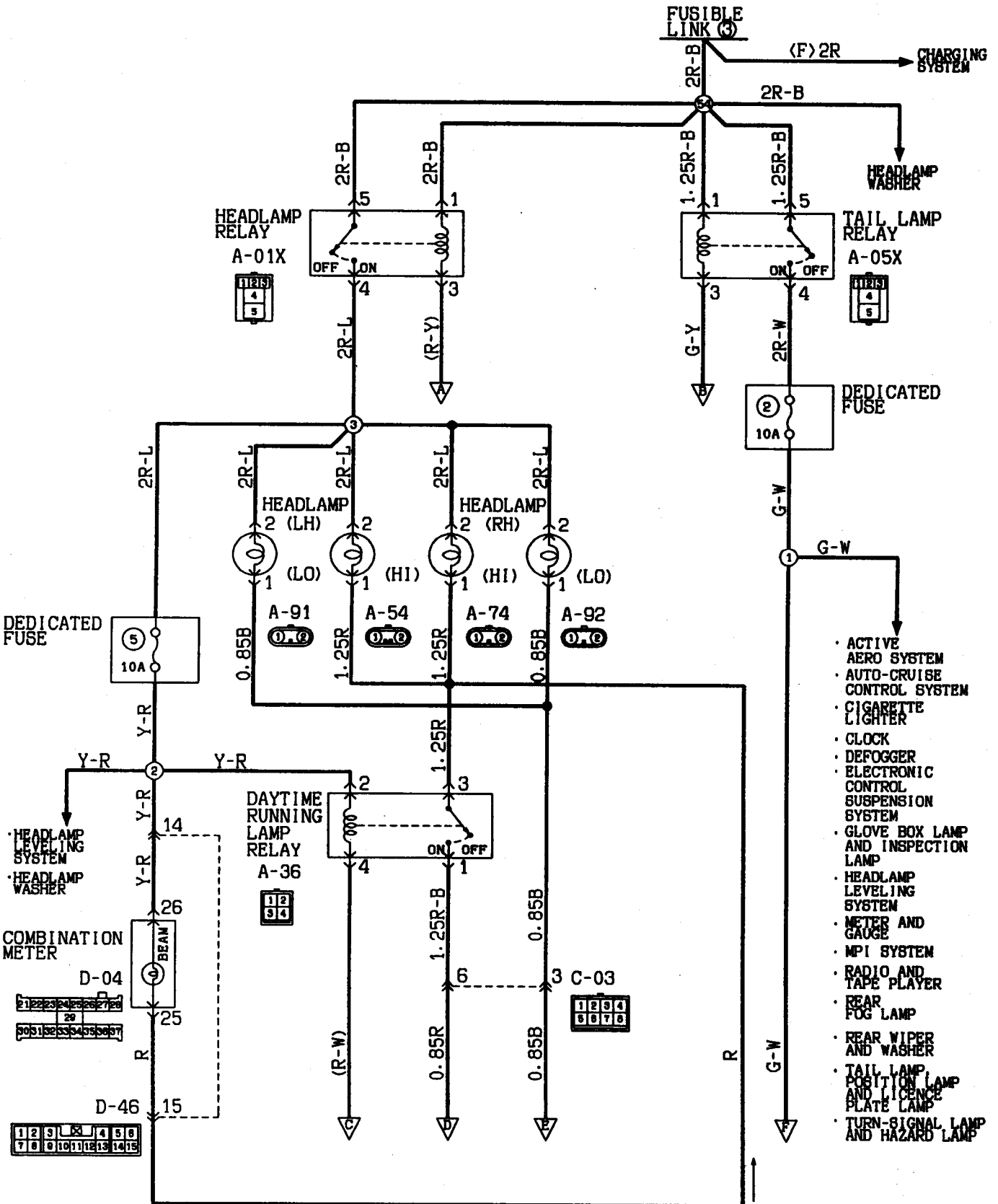


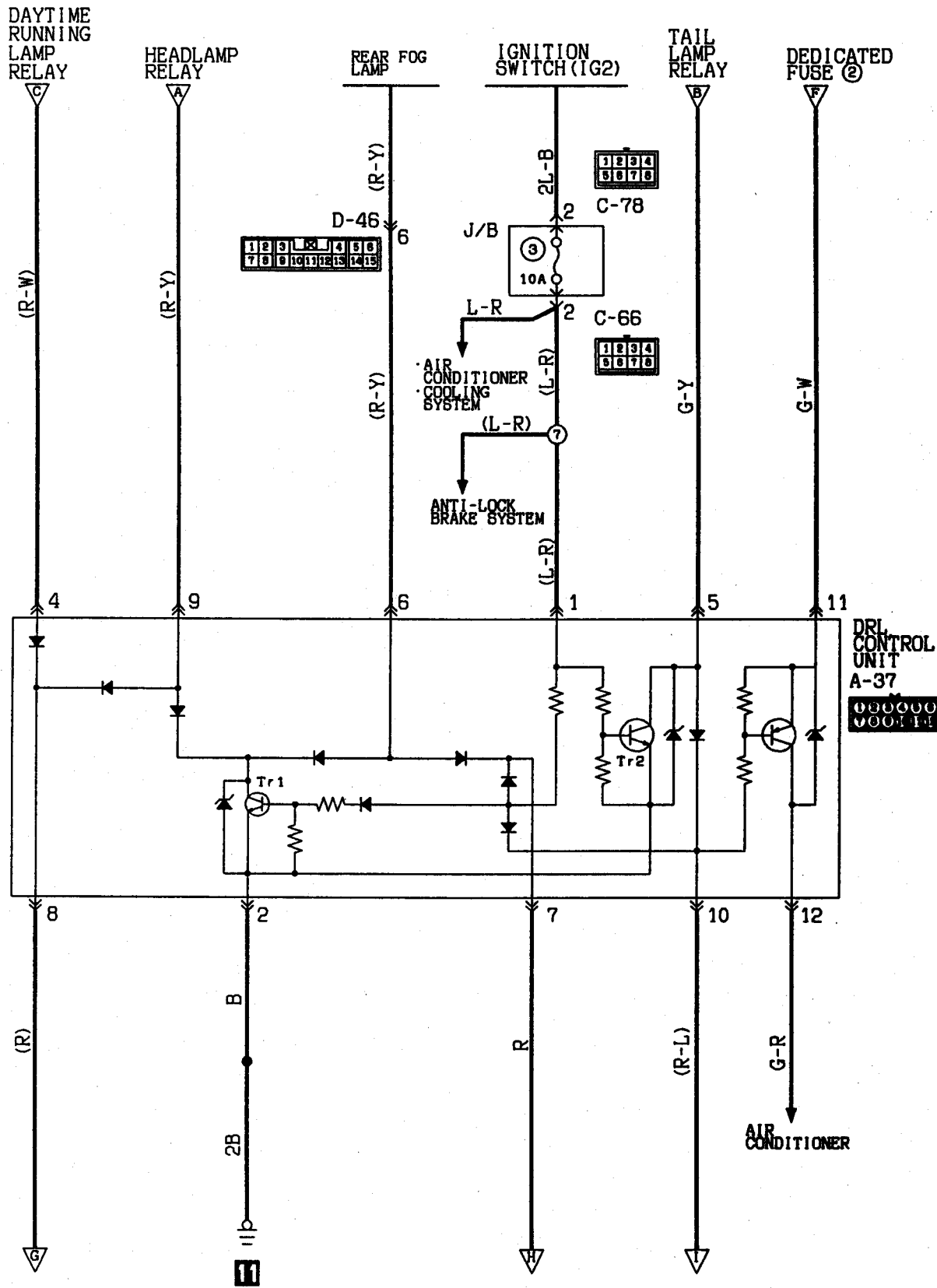


Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

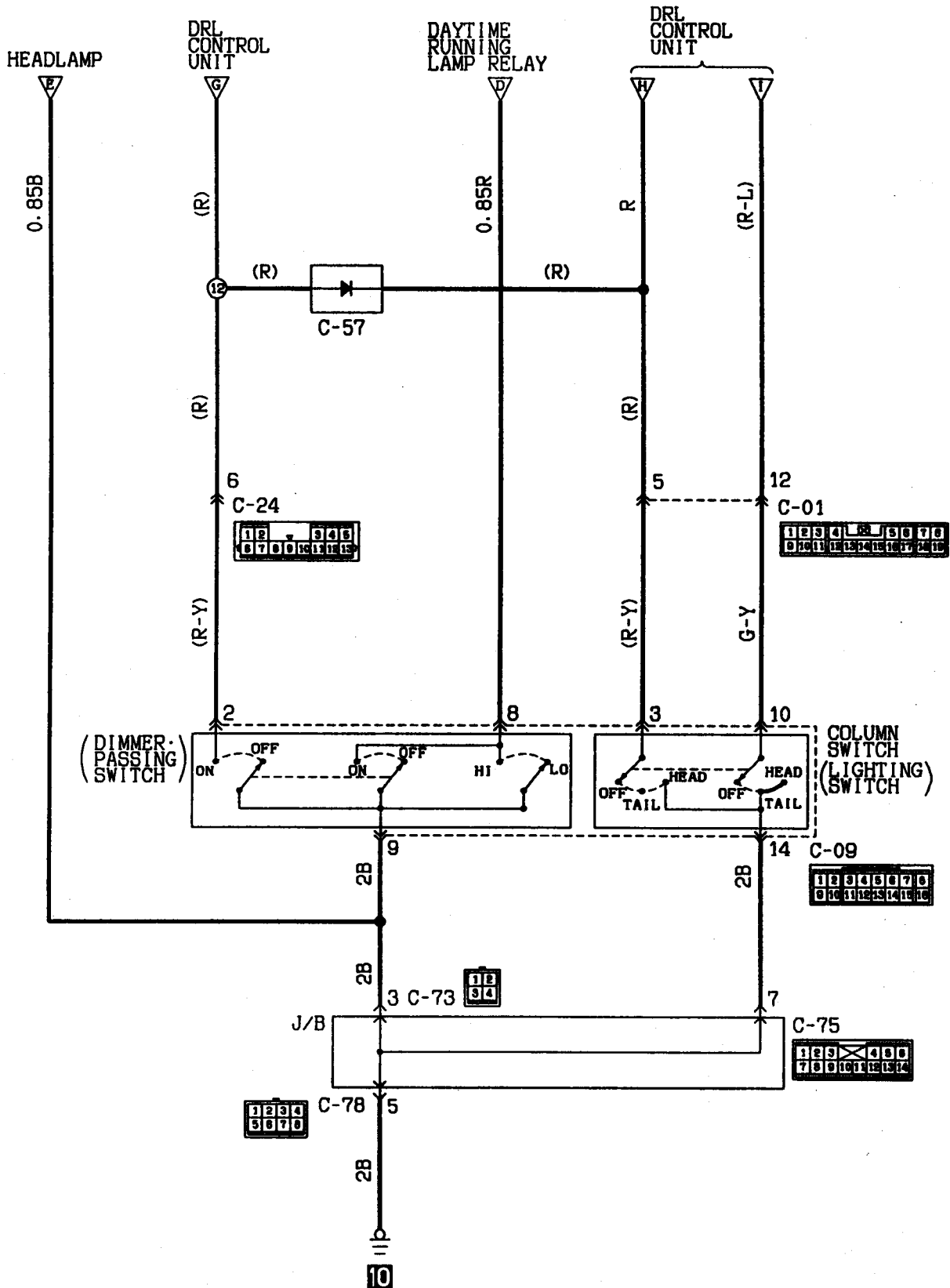
HEADLAMP

L.H. drive vehicles with daytime running lamp





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



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

HEADLAMP <L.H. drive vehicles with daytime running lamp> (See P. 4B-46.)**OPERATION**

Headlamp Relay ON Conditions

Ignition switch	Lighting switch	Dimmer/passing switch	Headlamp relay
"ON"	"OFF"	—	ON
—	"HEAD"	—	ON
—	—	"PASS"	ON

<Daytime running lamp operation>

- Turning the ignition switch to the ON position causes the headlamp relay, and tail lamp relay to be energized, which causes the headlamps, tail lamps, etc. to go on.

<Low-beam operation>

- Placing the lighting switch in the HEAD position causes the headlamp relay and daytime running lamp relay to be energized.
- If the dimmer/passing switch is placed in the LO position at this time, the headlamps light up in low beam.

<Upper-beam operation>

- Placing the lighting switch in the HEAD position causes the headlamp relay and daytime running lamp relay to be energized.
- If the dimmer/passing switch is placed in the HI position at this time, the headlamps light up in upper beam.

<Upper-beam indicator lamp>

- This lamp lights up when the upper/passing beams are on, indicating that the headlamps are on in upper beam.

<Passing operation>

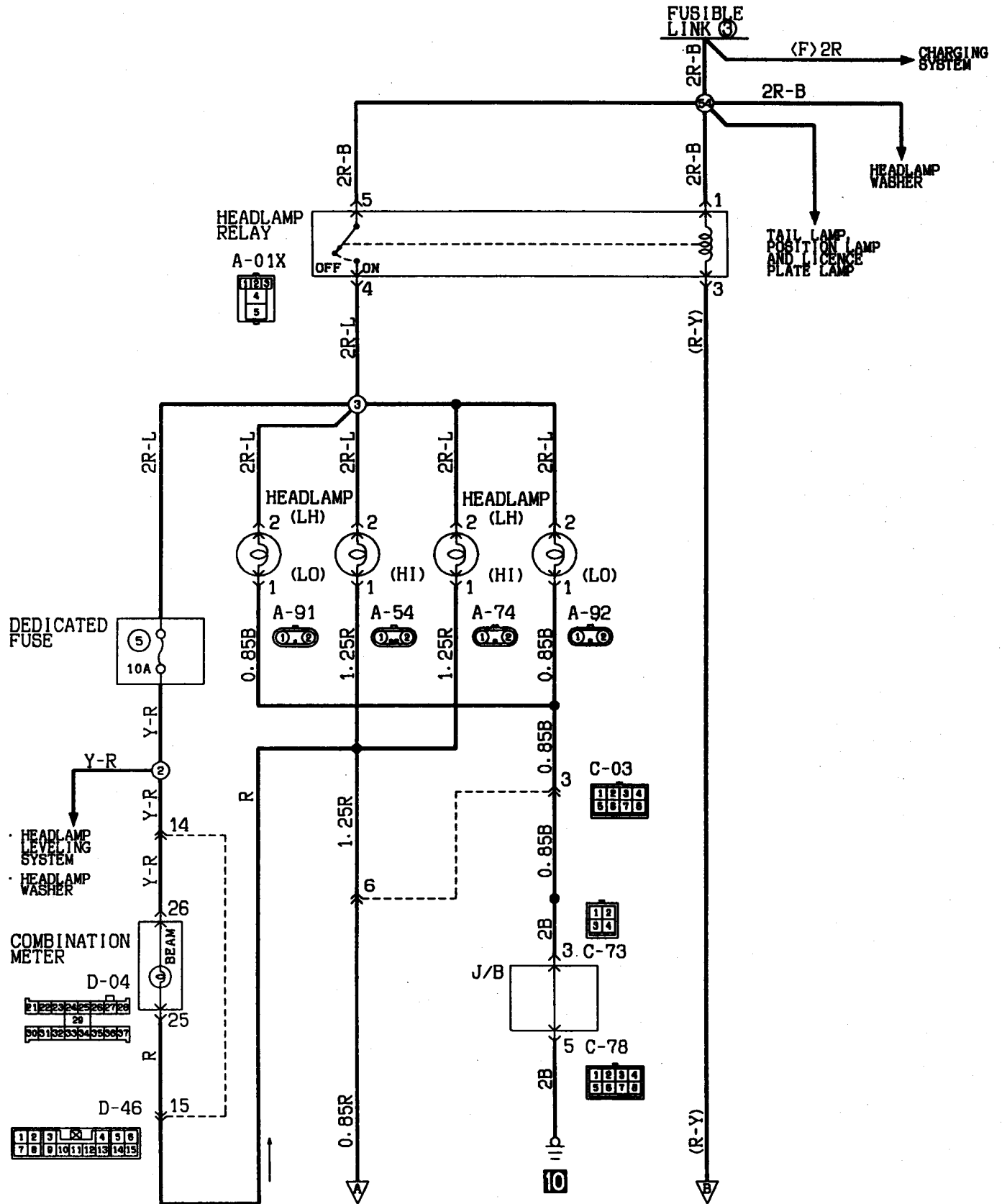
- When the dimmer/passing switch is set to the "ON" position, the headlamp relay and daytime running lamp relay are switched ON and the upper beam of the headlamps illuminates.

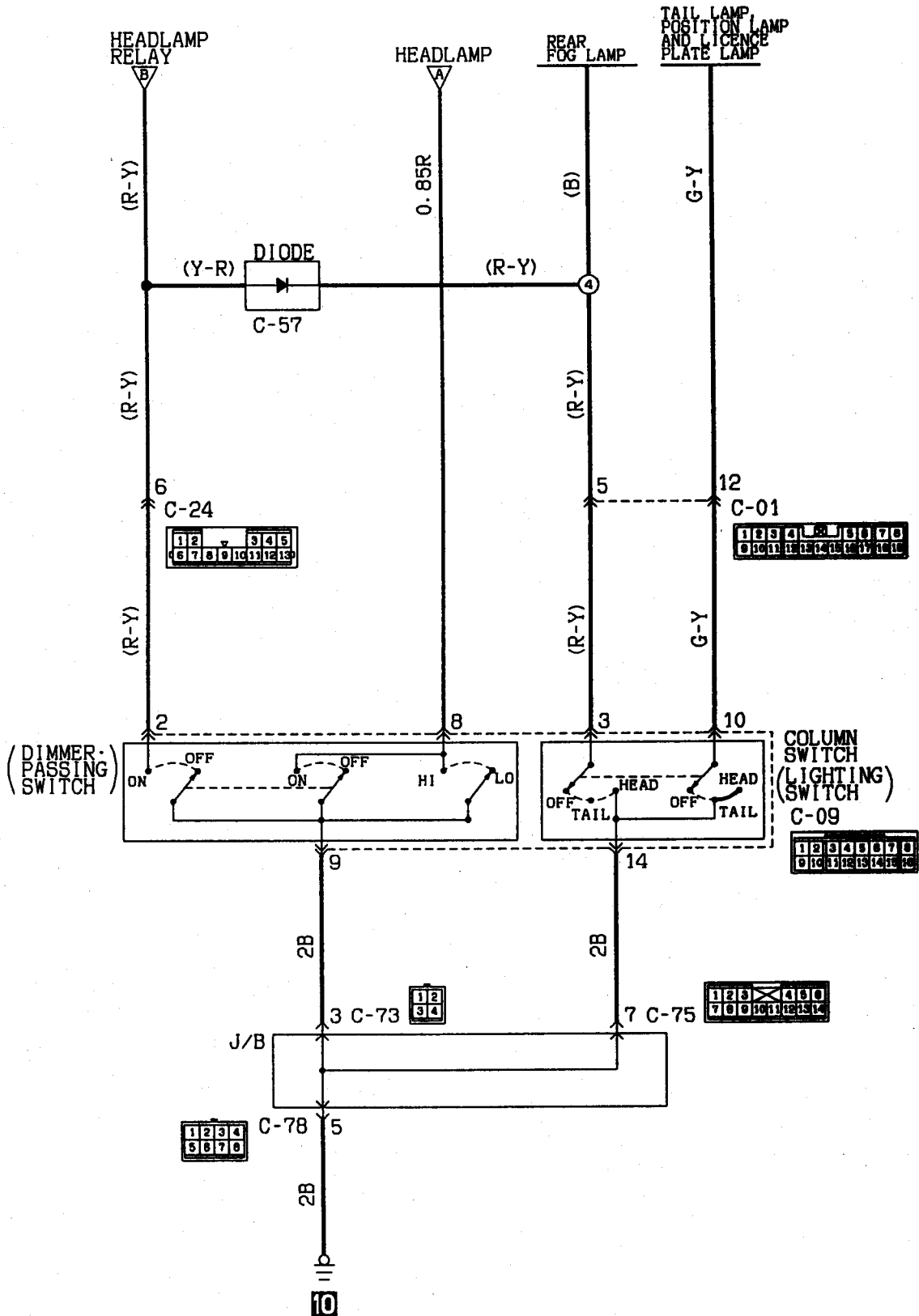
TROUBLESHOOTING HINTS

1. Headlamps don't go on.
 - 1) But the tail lamps do illuminate.
 - Check the headlamp relay.
 - Check the lighting switch.
 - 2) The tail lamps also don't illuminate.
 - Check the fusible link No. ③.
2. The upper beam at both sides doesn't illuminate.
 - 1) The passing signal functions OK.
 - Check the dimmer switch HI contacts.
 - 2) The passing signal doesn't function.
 - Check the dimmer switch.
 - Check the daytime running lamp relay.
 - Check the daytime running lamp control unit.
3. One headlamp doesn't illuminate.
 - Check the lamp bulb.
4. Can't switch from low to upper beam or vice-versa.
 - Check the dimmer switch.
5. With the ignition switch at the "ON" position, the headlamp's low beam does not illuminate.
 - Check the daytime running lamp control unit.
6. Upper-beam indicator lamp does not go on.
 - 1) Headlamp upper beams are operational.
 - Check dedicated fuse No. ⑤.
 - Check the indicator lamp bulb.

HEADLAMP

L.H. drive vehicles without daytime running lamp





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

HEADLAMP <Vehicles without daytime running lamp and dim-dip lamp> (See P. 4B-50, 56)

OPERATION

Headlamp Relay ON Conditions

Lighting switch	Dimmer/passing switch	Headlamp relay
"HEAD"	—	ON
—	ON	ON

<Low-beam operation>

- Placing the lighting switch in the HEAD position causes the headlamp relay to be energized.
- If the dimmer/passing switch is placed in the LO position at this time, the headlamps light up in low beam.

<Upper-beam operation>

- Placing the lighting switch in the HEAD position causes the headlamp relay to be energized.
- If the dimmer/passing switch is placed in the HI position at this time, the headlamps light up in upper beam.

<Upper-beam indicator lamp>

- This lamp lights up when the upper/passing beams are on, indicating that the headlamps are on in upper beam.

<Passing operation>

- When the dimmer/passing switch is set to the "ON" position, the headlamp relay is switched ON and the upper beam of the headlamps illuminates.

TROUBLESHOOTING HINTS

1. Headlamps don't go on.
 - 1) But the tail lamps illuminate.
 - Check the headlamp relay.
 - Check the lighting switch.
 - 2) The tail lamps also don't illuminate.
 - Check the fusible link No. ③.
2. The low beam at both sides doesn't illuminate.
 - Check the dimmer switch LO contacts.
3. The upper beam at both sides doesn't illuminate.
 - 1) The passing signal functions OK.
 - Check the dimmer switch HI contacts.
4. One headlamp doesn't illuminate.
 - Check the lamp bulb.
5. Can't switch from low to upper beam or vice-versa.
 - Check the dimmer switch.
6. Upper-beam indicator lamp does not go on.
 - 1) Headlamp upper beams are operational.
 - Check dedicated fuse No. ⑤.
 - Check the indicator lamp bulb.

HEADLAMP <R.H. drive vehicles with dim-dip lamp> (See P. 4B-54.)**OPERATION**

Headlamp Relay ON Conditions

Ignition switch	Lighting switch	Dimmer/passing switch	Headlamp relay
"ON"	"TAIL"	—	ON
—	"HEAD"	—	ON
—	—	"PASS"	ON

<Dim-dip lamp operation>

- Placing the lighting switch in the TAIL position causes dim-dip lamp relay (1) to be energized.
- This causes the headlamp relay to be also energized resulting in the headlamps being lit up dimly through the circuit by way of resistor.

<Low-beam operation>

- Placing the lighting switch in the HEAD position causes the headlamp relay, dim-dip lamp relay (2) and dim-dip lamp relay (3) to be energized.
- If the dimmer/passing switch is placed in the LO position at this time, the headlamps light up in low beam.

<Upper-beam operation>

- Placing the lighting switch in the HEAD position causes the headlamp relay, dim-dip lamp relay (2) and dim-dip lamp relay (3) to be energized.
- If the dimmer/passing switch is placed in the HI position at this time, the headlamps light up in upper beam.

<Upper-beam indicator lamp>

- This lamp lights up when the upper/passing beams are on, indicating that the headlamps are on in upper beam.

<Passing operation>

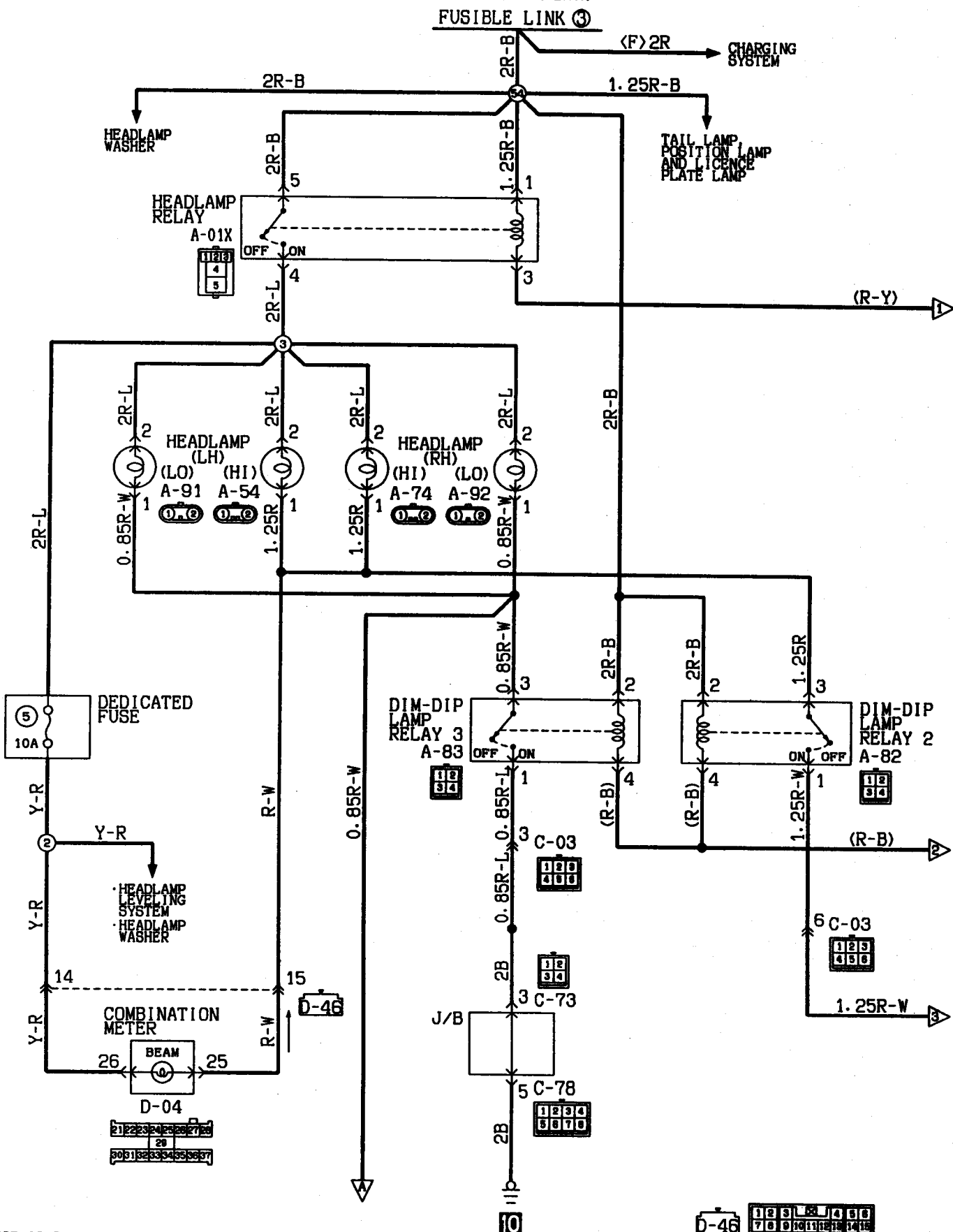
- When the dimmer/passing switch is set to the "ON" position, the headlamp relay is switched ON and the upper beam of the headlamps illuminates.

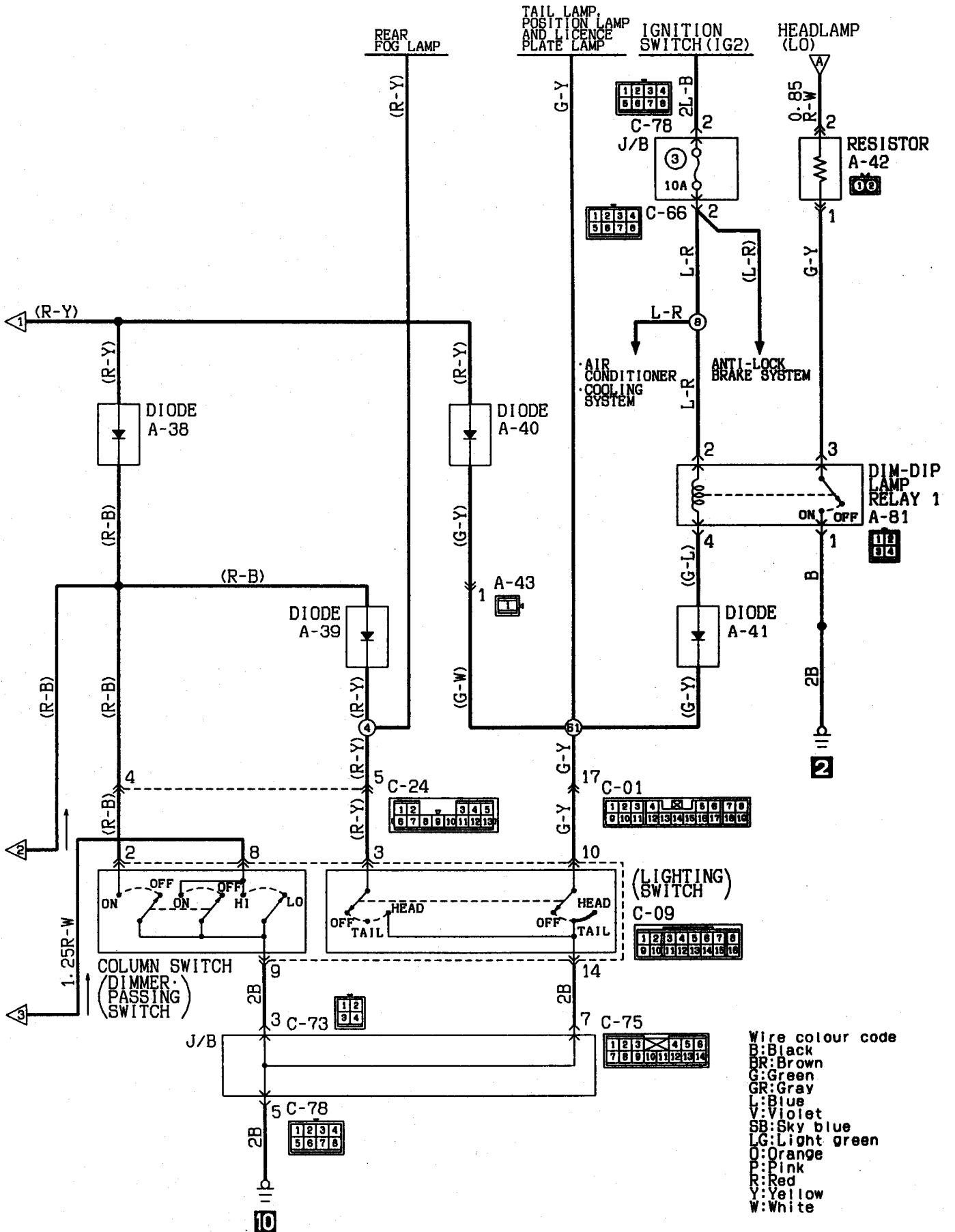
TRUOUBLESHOOTING HINTS

- Headlamps don't go on.
 - But the tail lamps illuminate.
 - Check the headlamp relay.
 - Check the lighting switch.
 - Check the dim-dip lamp relays (2) and (3).
 - The tail lamps also don't illuminate.
 - Check the fusible link No. ③.
- The low beam at both sides doesn't illuminate.
 - Check the dimmer switch LO contacts.
- The upper beam at both sides doesn't illuminate.
 - The passing signal functions OK.
 - Check the dimmer switch HI contacts.
- One headlamp doesn't illuminate.
 - Check the lamp bulb.
- Can't switch from low to upper beam or vice-versa.
 - Check the dimmer switch.
- The headlamp's low beam does not illuminate at the "TAIL" position of the lighting switch.
 - The low beam does illuminate, however, when, with lighting switch at the "HEAD" position, the dimmer switch is set to "LO".
 - Check the dim-dip lamp relay (1).
 - Check the resistor.
 - Check the diode.
- Upper-beam indicator lamp does not go on.
 - Headlamp upper beams are operational.
 - Check dedicated fuse No. ⑤.
 - Check the indicator lamp bulb.

HEADLAMP

R. H. drive vehicles with dim-dip lamp

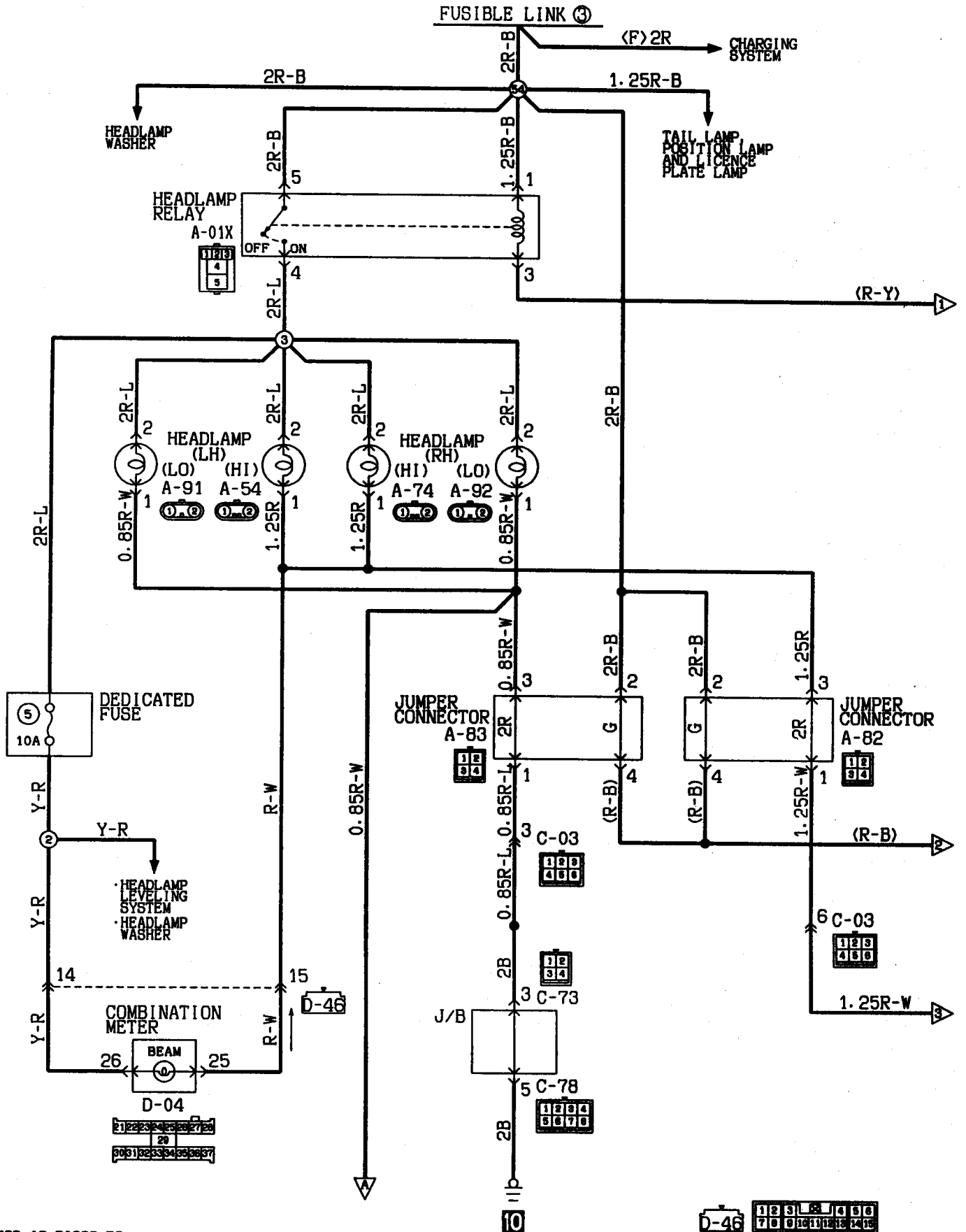


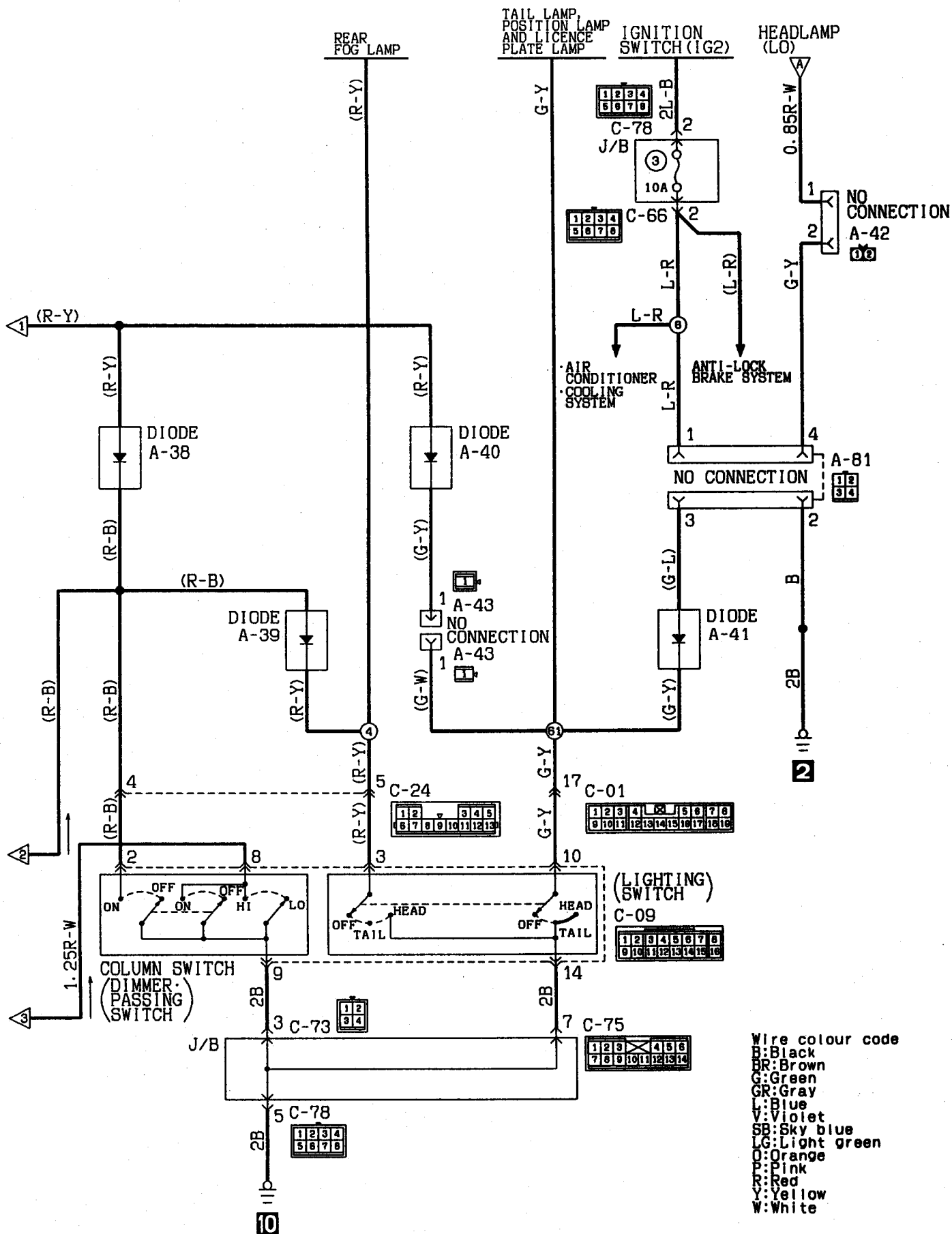


Wire colour code
 B: Black
 BR: Brown
 G: Green
 GR: Gray
 L: Blue
 V: Violet
 SB: Sky blue
 LG: Light green
 O: Orange
 P: Pink
 R: Red
 Y: Yellow
 W: White

HEADLAMP

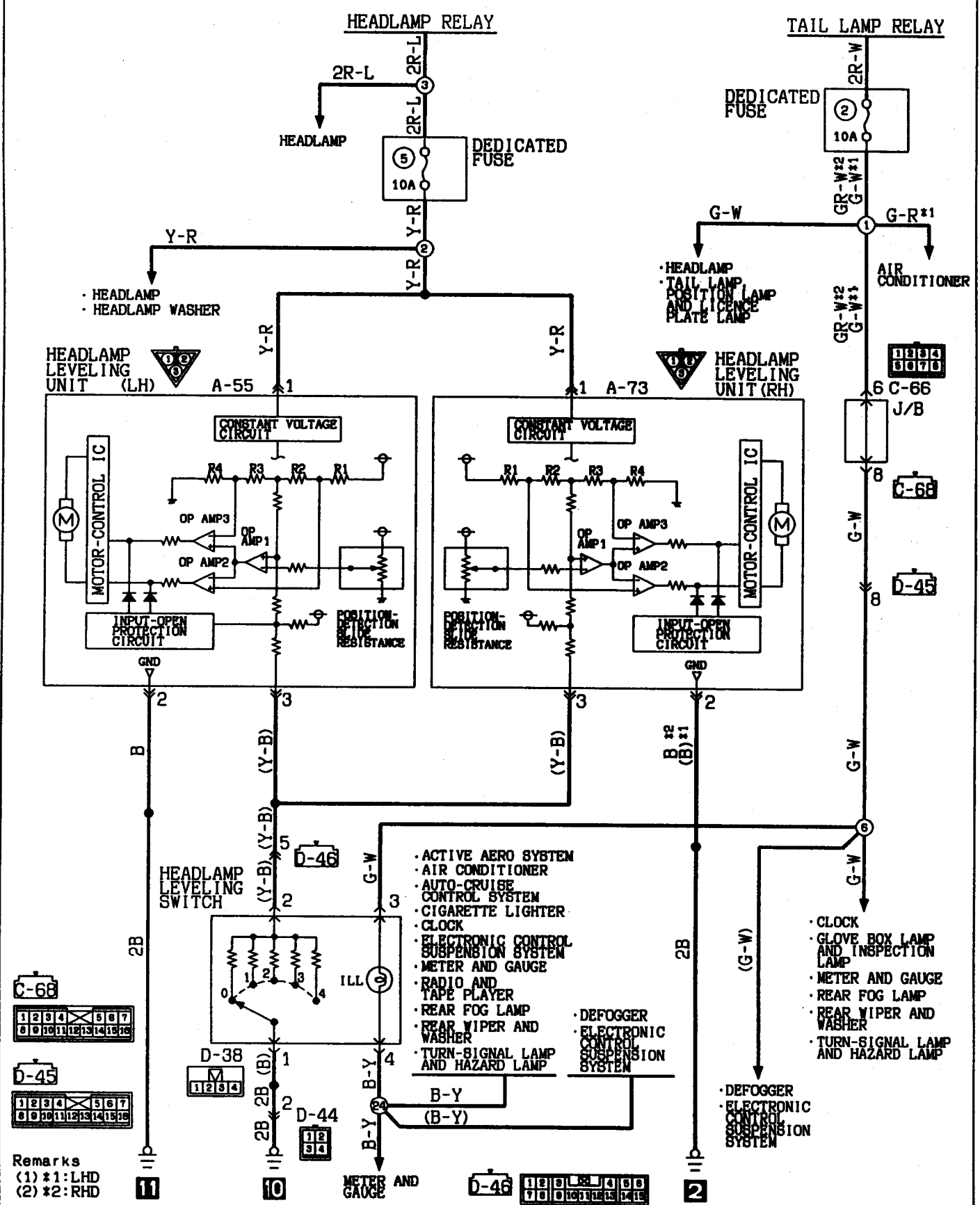
R.H. drive vehicles without dim-dip lamp





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

HEADLAMP LEVELING SYSTEM



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

HEADLAMP LEVELING SYSTEM (See P. 4B-58.)**OPERATION****1. Headlamps angle-downward operation**

- When the lighting switch is set to the "HEAD" position, the headlamp relay is switched ON, and battery voltage is applied, through the headlamp leveling unit, to dedicated fuse No. ⑤.
- When the headlamp leveling switch setting is changed from "0" to "1", the positive (+) input terminal voltage of the comparator OP AMP 1 (located within the headlamp leveling unit) becomes greater than the negative (−) input terminal standard reference voltage value, and OP AMP 1 outputs HIGH signals to OP AMP 2 and OP AMP 3.
- As a result of these HIGH signals, OP AMP 2 outputs LOW signals and OP AMP 3 outputs HIGH signals to the motor-control IC.
- When this happens, the motor-control IC is switched ON, current flows to the motor, and the motor rotates in the forward direction.
- The rotation of the motor, after passing through the gears and the output shaft, causes the headlamp reflectors to move to a downward angle, thus changing the angle of headlamp illumination.
- At this time, the position-detection sliding resistance is activated in the direction of the low resistance value, after which the OP AMP 1 negative (−) input terminal voltage value and positive (+) input terminal voltage value become equivalent, and OP AMP 2 and OP AMP 3 both output HIGH signals.
- When this happens, the motor-control IC is switched OFF and the motor stops.

NOTE

- (1) The same operation occurs if the headlamp leveling switch is set to another position.
- (2) The input open protection circuit functions to stop the operation of the motor if there is an abnormal condition, such as damaged or disconnected wiring within the headlamp leveling unit or of the wiring harness.

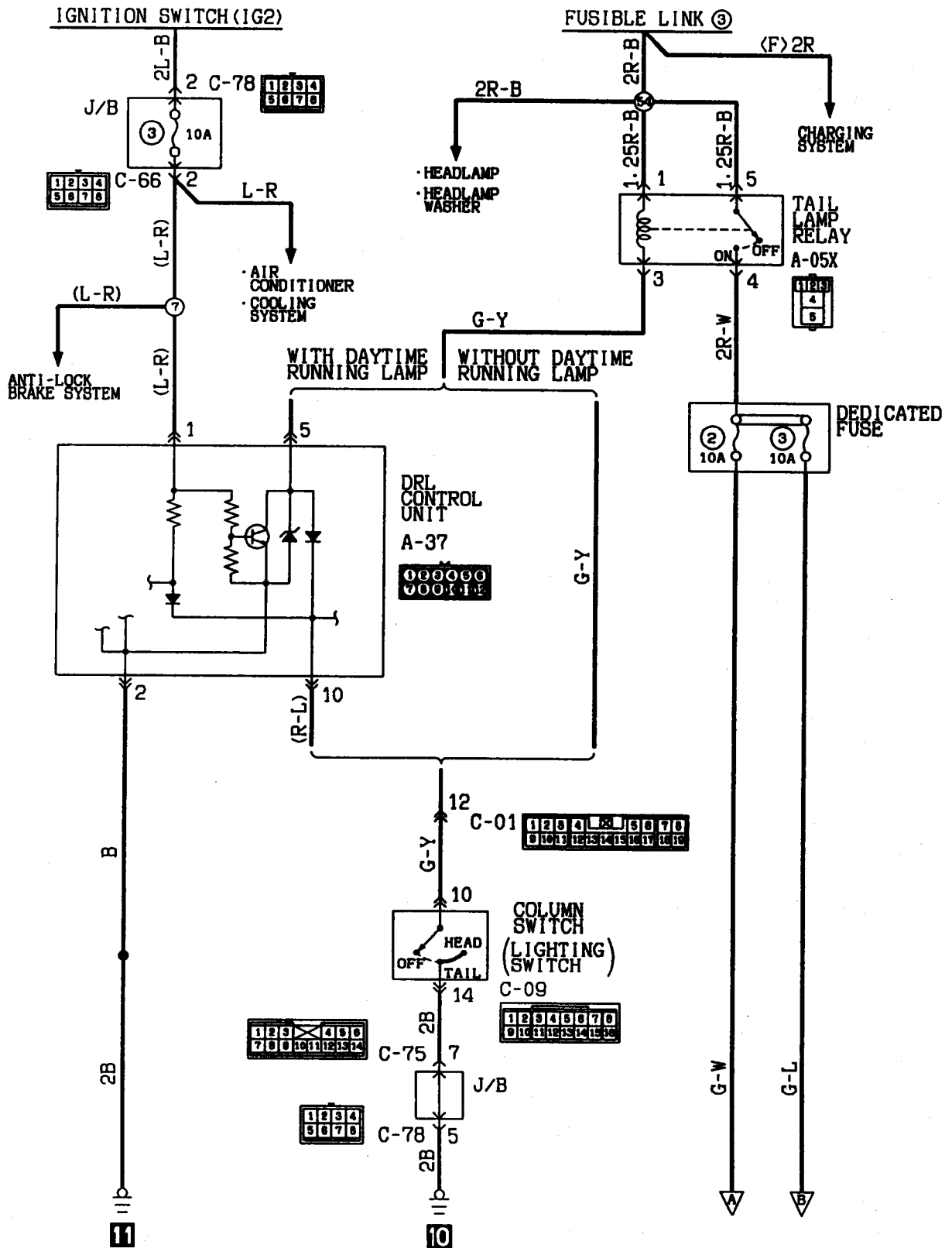
2. Headlamps angle-upward operation

- The headlamp angle-upward operation is the opposite logic of the downward operation; the motor operates in the reverse direction and then stops.

TROUBLESHOOTING HINTS

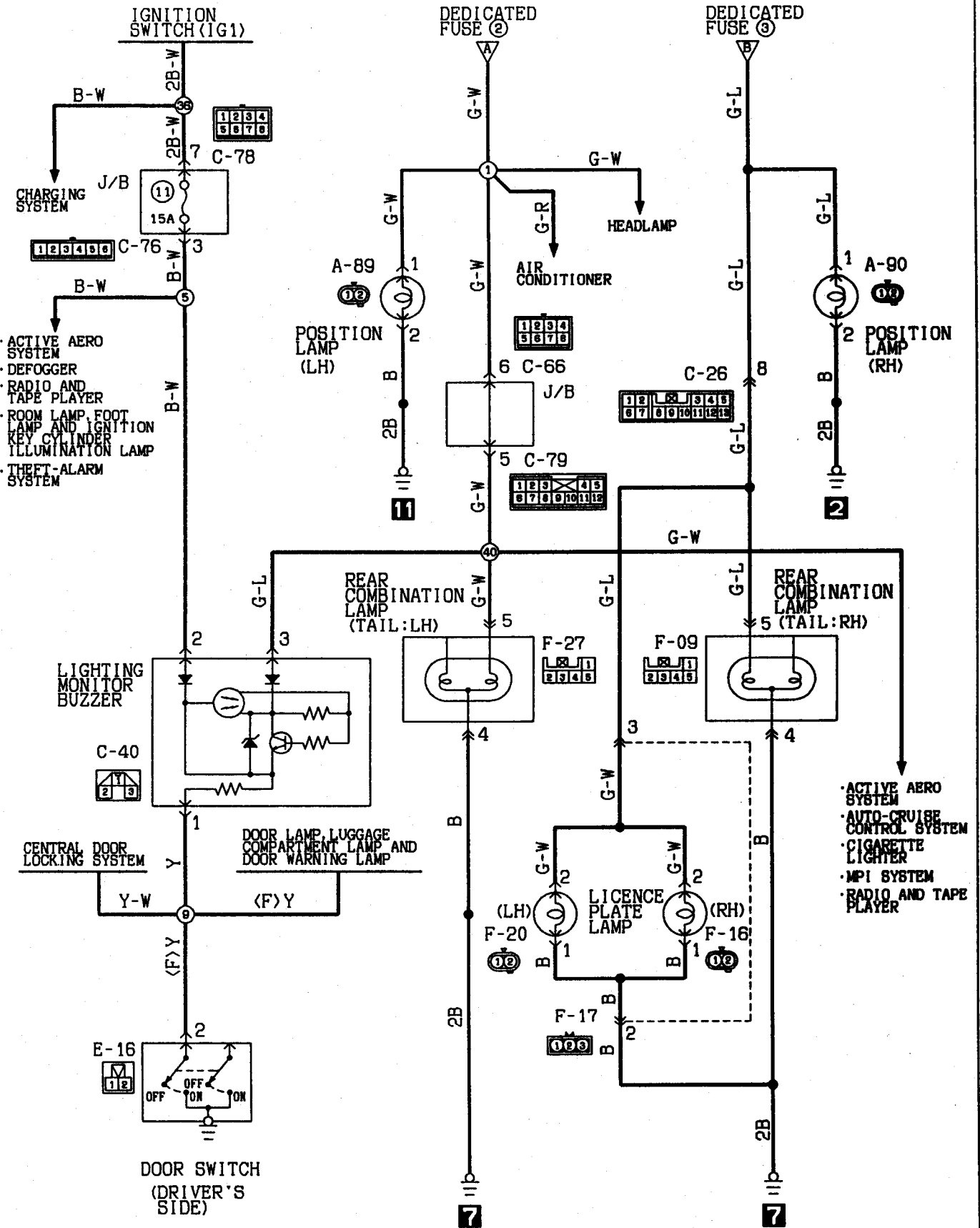
1. Absolutely no change of the headlamp angle
 - (1) The upper-beam indicator lamp illuminates.
 - Check the headlamp leveling switch.
 - Check the headlamp leveling unit.
 - (2) The upper-beam indicator lamp does not illuminate.
 - Check dedicated fuse No. ⑤.
2. There is one setting of the headlamp leveling switch at which the headlamp angle does not change.
 - Check the headlamp leveling switch.

TAIL LAMP, POSITION LAMP AND LICENCE PLATE LAMP
L.H. drive vehicles

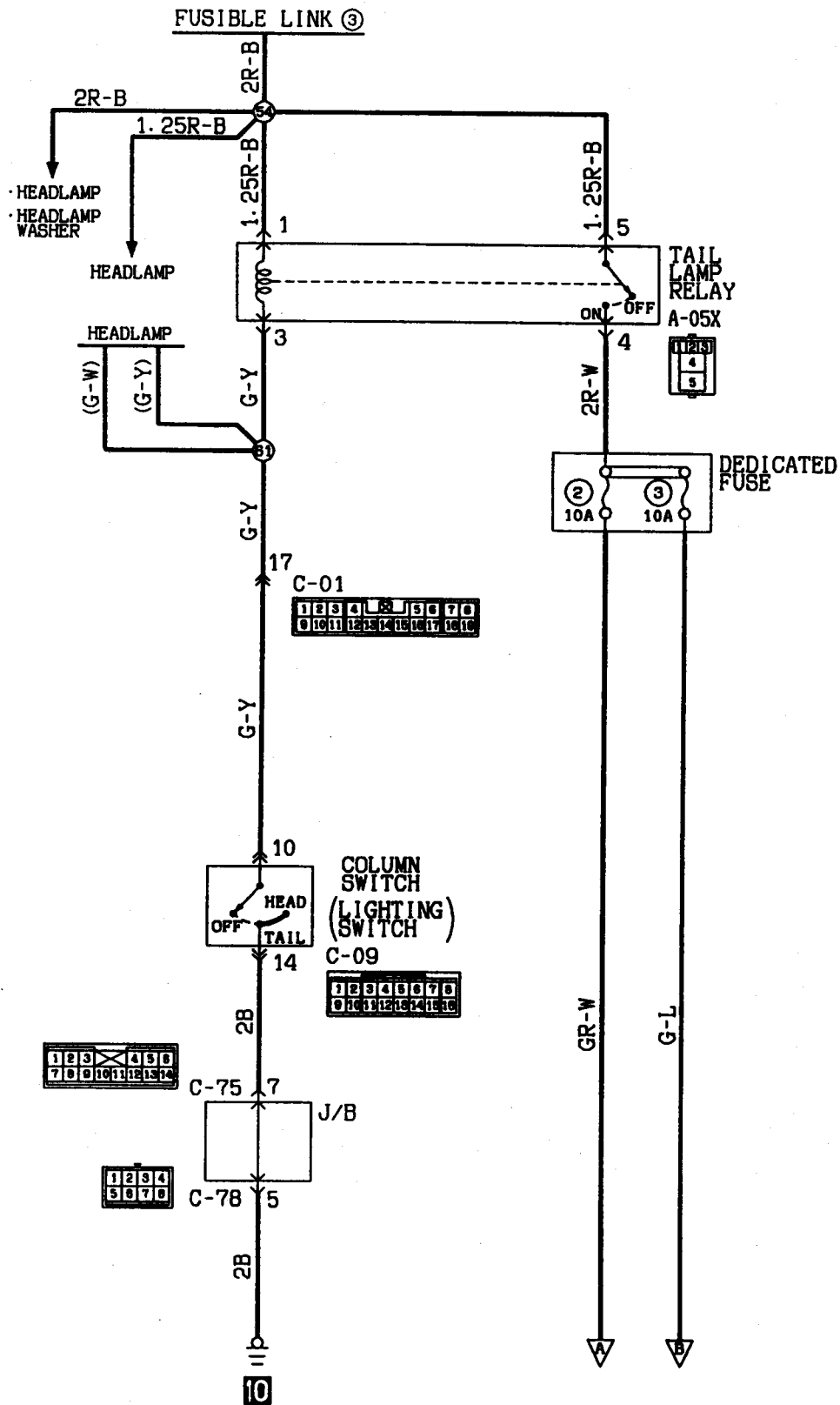


Wire colour code

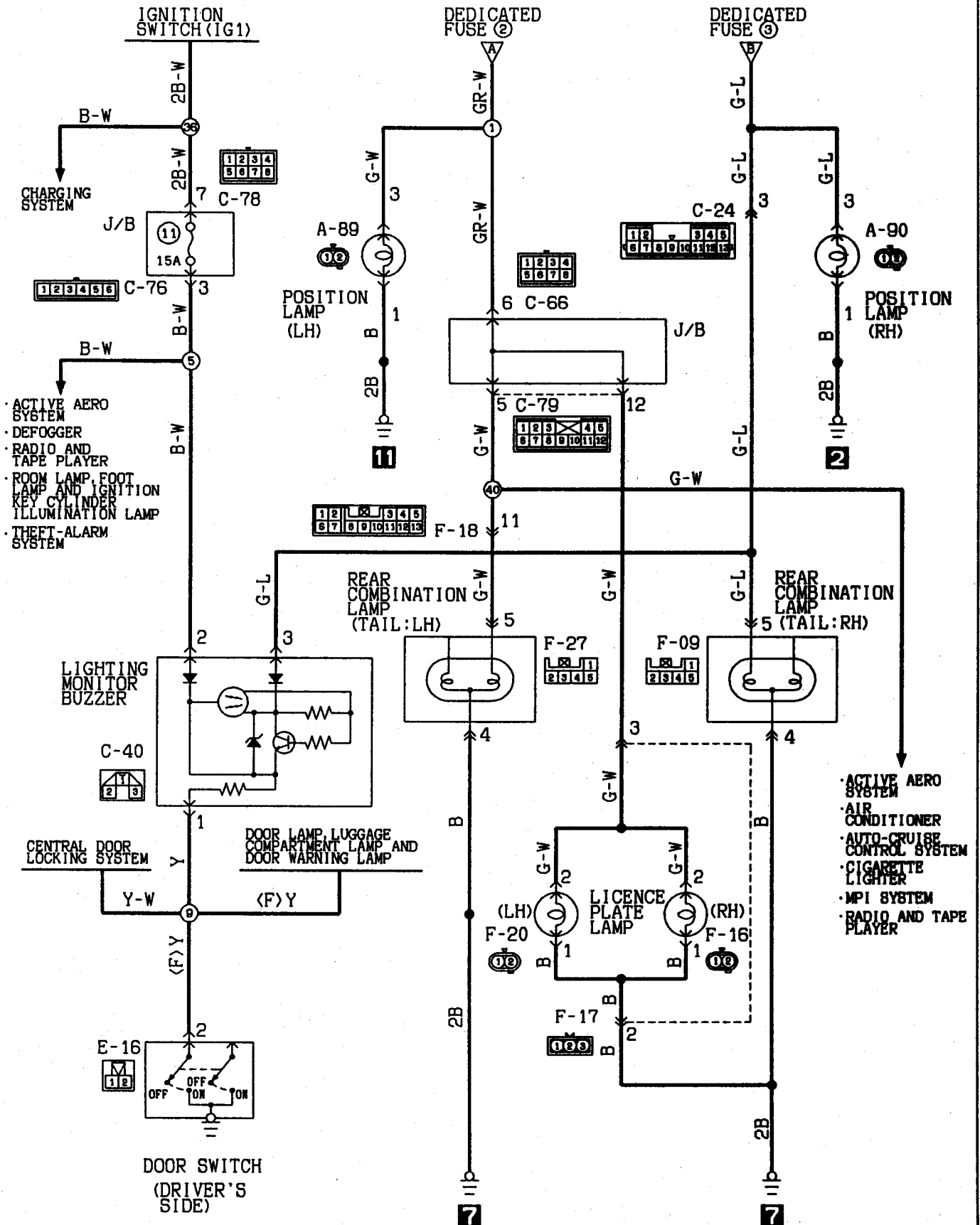
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BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



TAIL LAMP, POSITION LAMP AND LICENCE PLATE LAMP
R.H. drive vehicles



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



TAIL LAMP, POSITION LAMP AND LICENCE PLATE LAMP (See P. 4B-60, 62.)

OPERATION

- In vehicles with daytime running lamps, when the lighting switch is placed in the TAIL or HEAD position and the ignition switch is turned to ON, current always flows through the coil of the tail lamp relay to the lighting switch and earth, causing the contacts of the tail lamp relay to close. Current then flows through the contacts of the tail lamp relay to dedicated fuses ② and ③, the individual lamps and the earth, causing the tail lamps, position lamps and licence plate lamps to turn ON.

<Lighting monitor buzzer system>

- Placing the lighting switch in the TAIL or HEAD position causes the tail lamp relay to be energized.
- When the ignition switch is in the "OFF" position in this condition, if the driver's side door is opened and the front door switch turns "ON", the buzzer sounds to indicate that the lamps are not switched off.

TROUBLESHOOTING HINTS

1. All lamps don't illuminate.
 - (1) The headlamps don't illuminate, either.
 - Check the fusible link ③.
 - (2) The headlamps illuminate.
 - Check the tail lamp relay.
 - Check the dedicated fuse ② and ③.
 - Check the lighting switch.
2. Any lamp does not come on.
 - Check the bulb.
 - Check the earthing circuit.
3. Lighting monitor buzzer doesn't sound.
 - (1) But the tail lamps do illuminate.
 - Check the lighting monitor buzzer.
 - Check the front door switch (driver's side).
 - (2) The tail lamps also don't illuminate.
 - Check the sub fusible link No. ③.
 - Check the dedicated fuse No. ②.

REAR FOG LAMP (See P. 4B-66, 68, 70.)

OPERATION

Rear Fog lamp Relay ON Conditions

<Vehicles without daytime running lamp>

Ignition switch	Lighting switch	Rear fog lamp relay
—	"HEAD"	ON

<Vehicles with daytime running lamp>

Ignition switch	Lighting switch	Rear fog lamp relay
—	"HEAD"	ON
"ON"	"OFF" or "HEAD"	ON

- Placing the lighting switch in the HEAD position causes the rear fog lamp relay to be energized. For vehicles with daytime running lamps, if the ignition switch is in the "ON" position and the lighting switch is in the "OFF" position, the rear fog lamp relay will be energized.
- When the rear fog lamp switch is turned ON in this condition, the rear fog lamps go on.

TROUBLESHOOTING HINTS

1. The rear fog lamp doesn't illuminate.
 - 1) Headlamps go on.
 - Check the rear fog lamp relay.
 - Check the rear fog lamp switch.
 - Check the dedicated fuse No. ⑬.
 - 2) Headlamps do not go on, either.
 - Check the lighting switch.
 - Check the fusible link No. ③.
2. The rear fog lamp at the one side doesn't illuminate.
 - Check the lamp bulb.

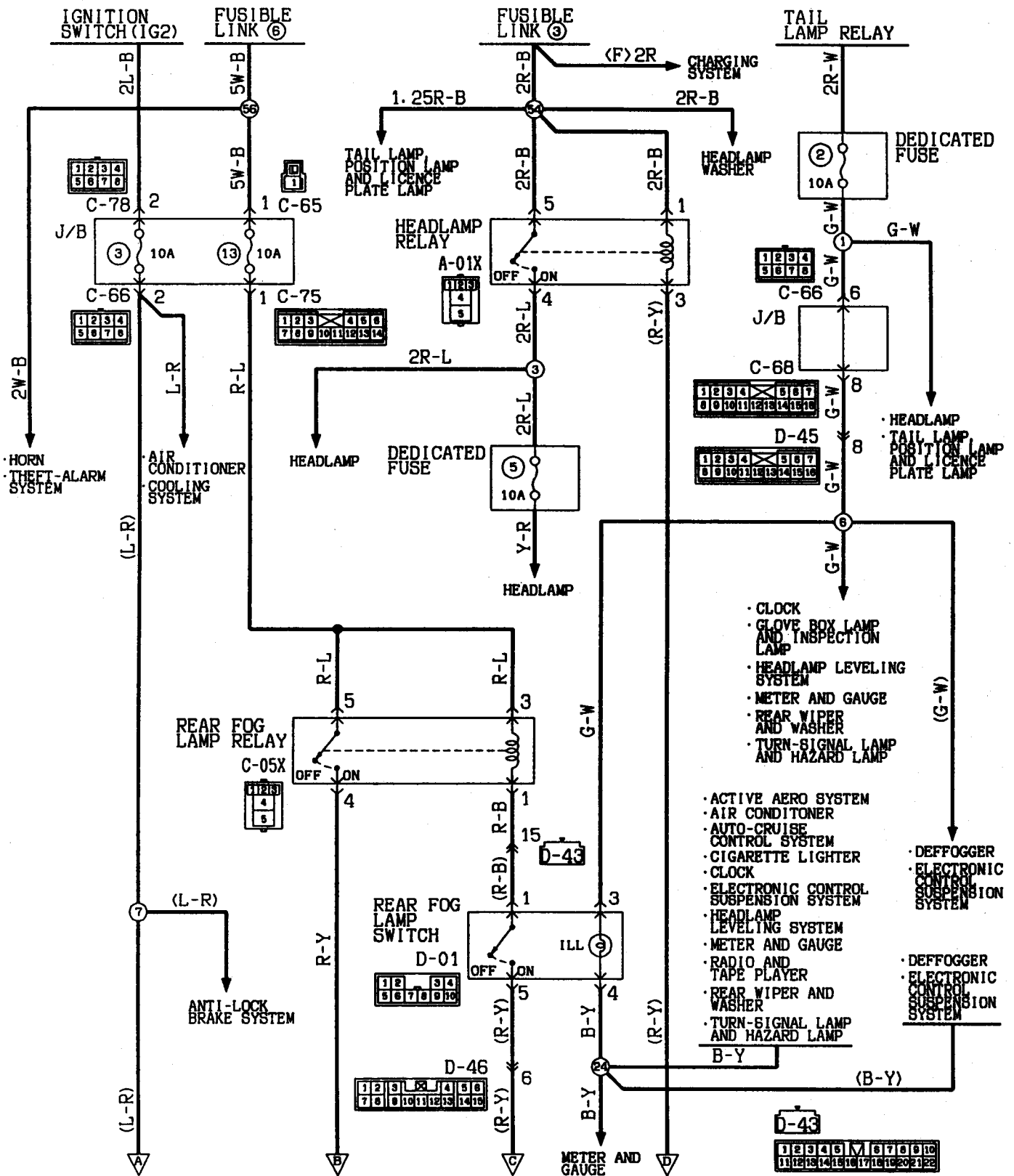
GLOVE BOX LAMP AND INSPECTION LAMP (See P. 4B-72.)

OPERATION

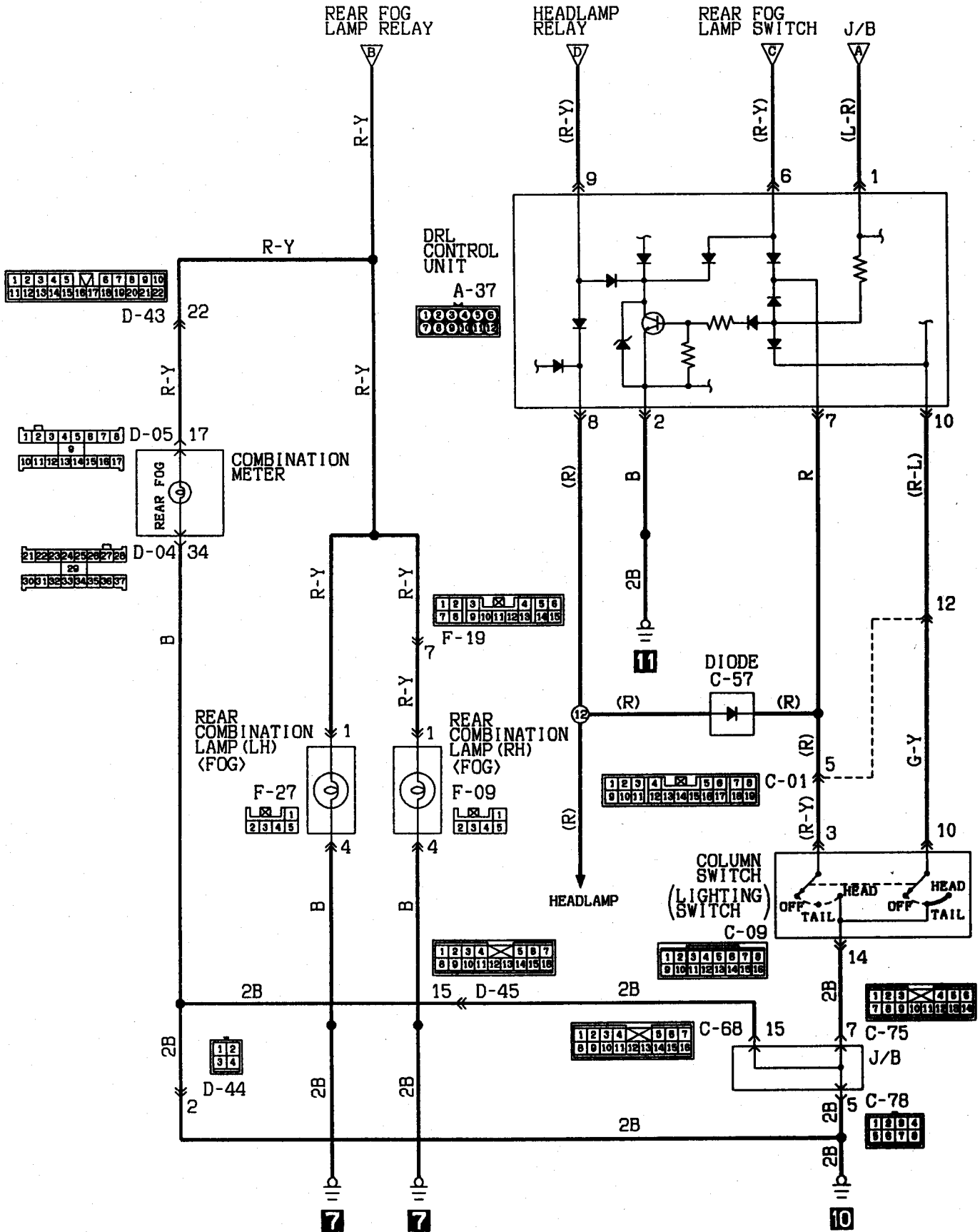
- When the lighting switch is placed in the TAIL or HEAD position, and the contacts of the tail lamp relay close, battery voltage is applied via the dedicated fuse ② to the glove box illumination lamp and the inspection lamp.
- When the glove box is opened, the glove box illumination lamp switch is switched ON and the glove box illumination lamp illuminates.
- When the engine hood is opened, the inspection lamp switch is switched ON and the inspection lamp illuminates.

REAR FOG LAMP

L.H. drive vehicles with daytime running lamp

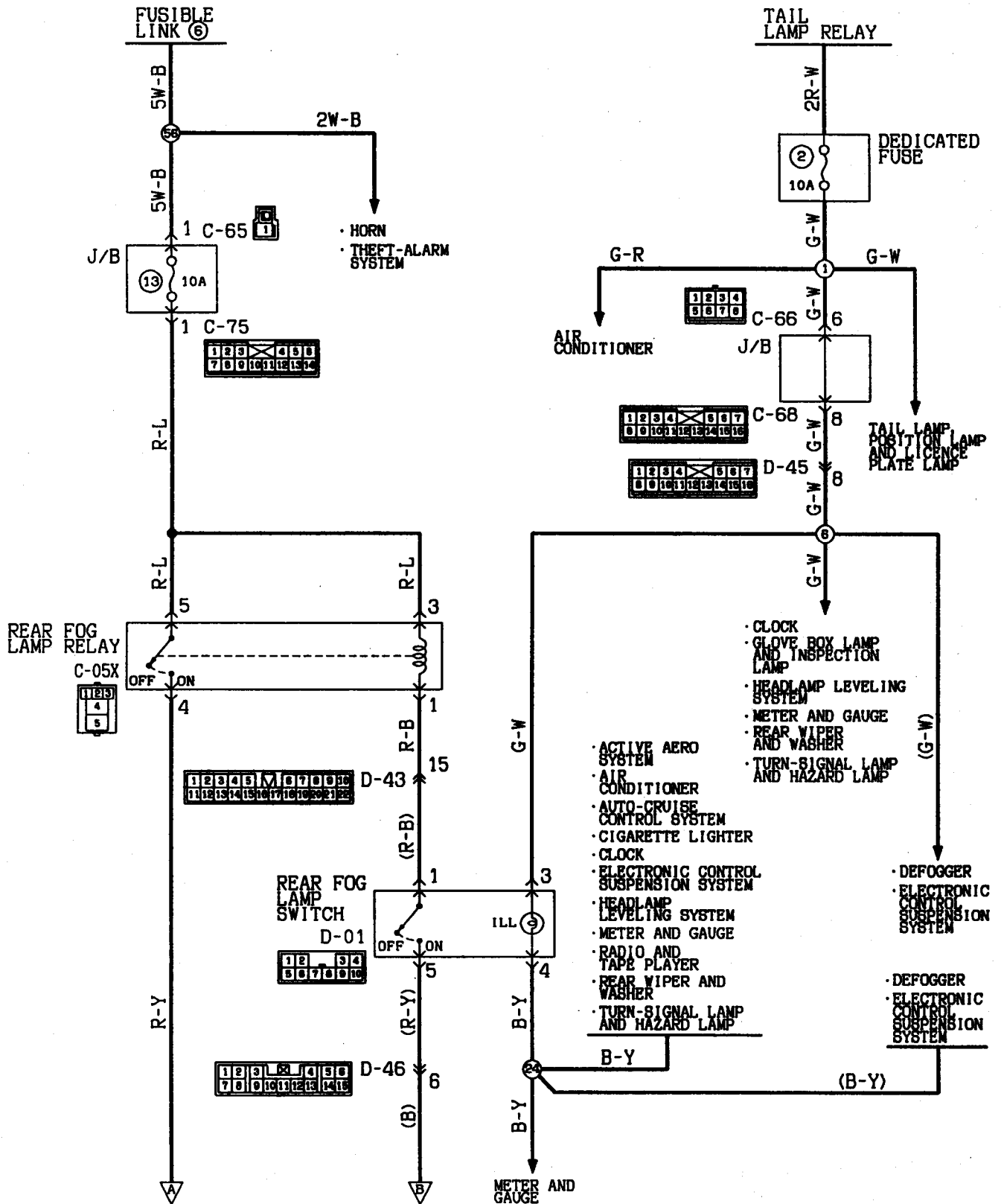


Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

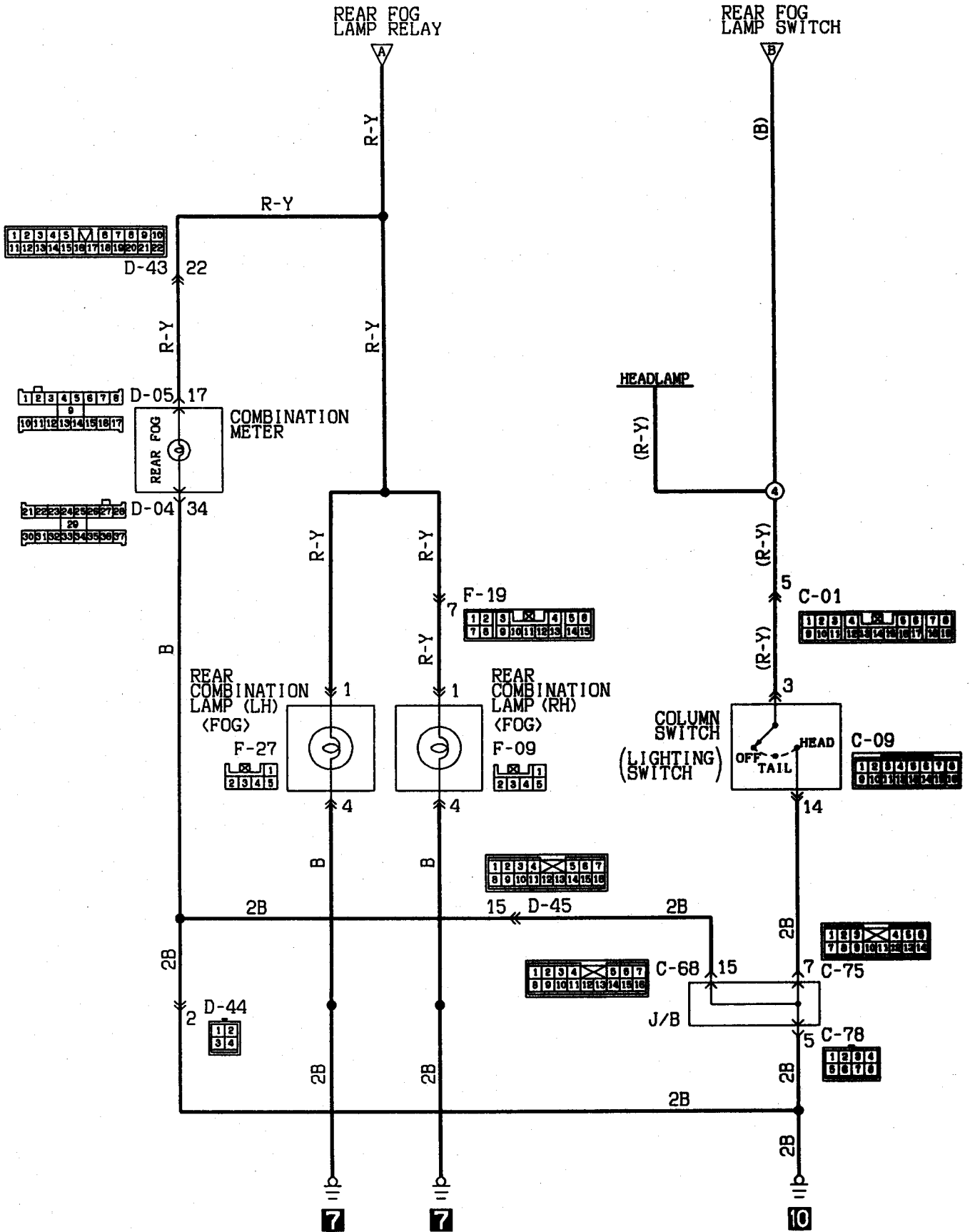


REAR FOG LAMP

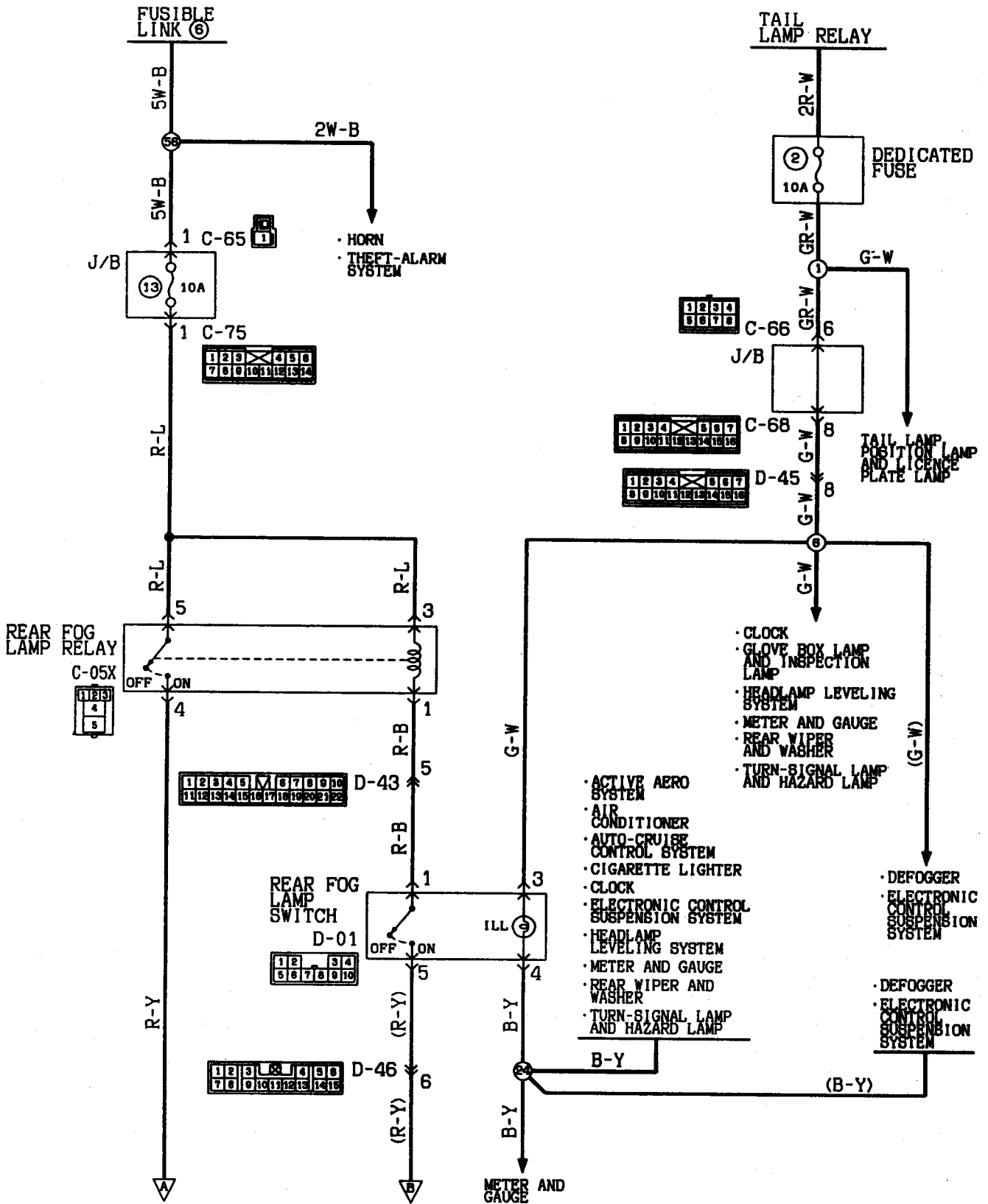
L.H. drive vehicles without daytime running lamp



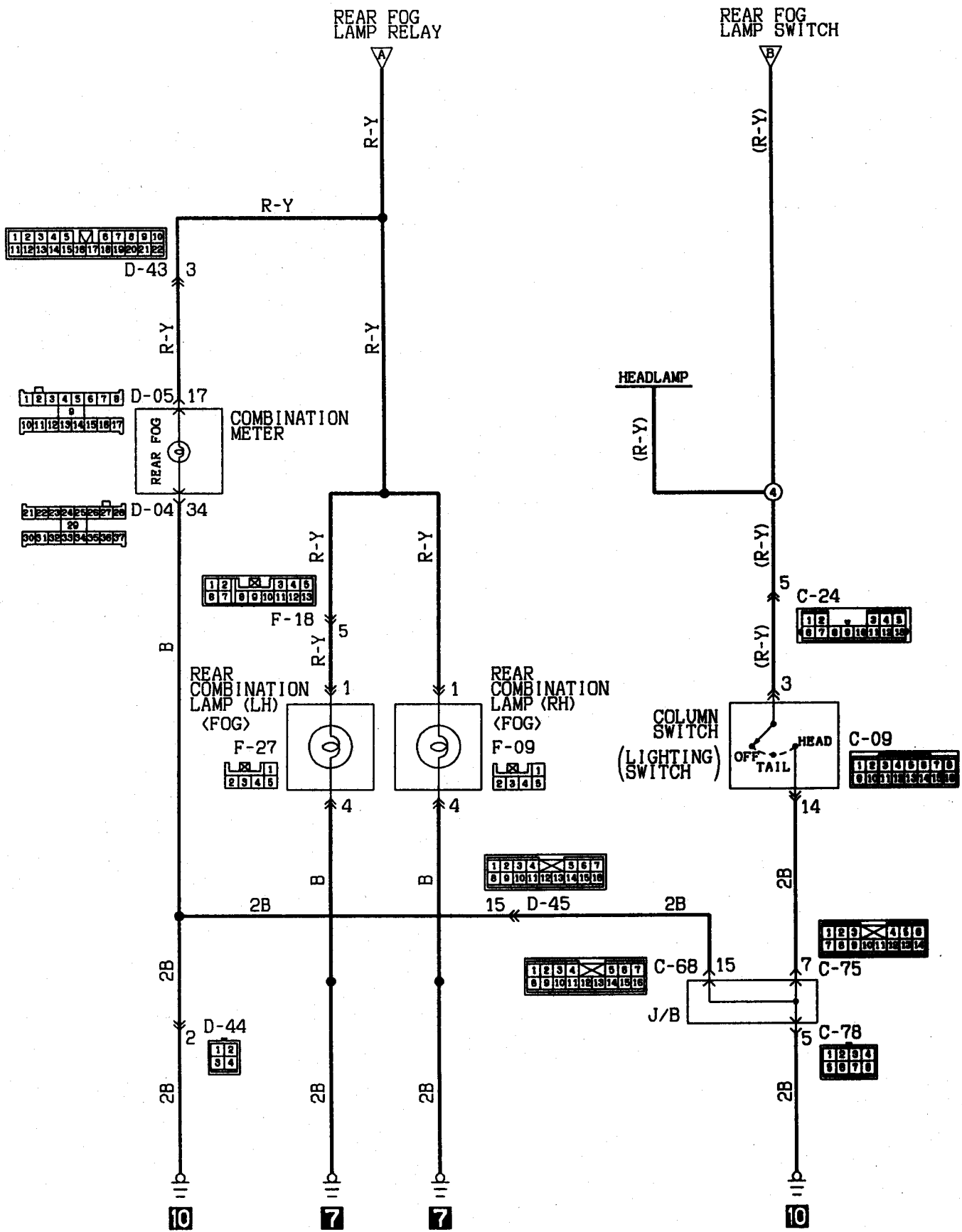
Wire colour code
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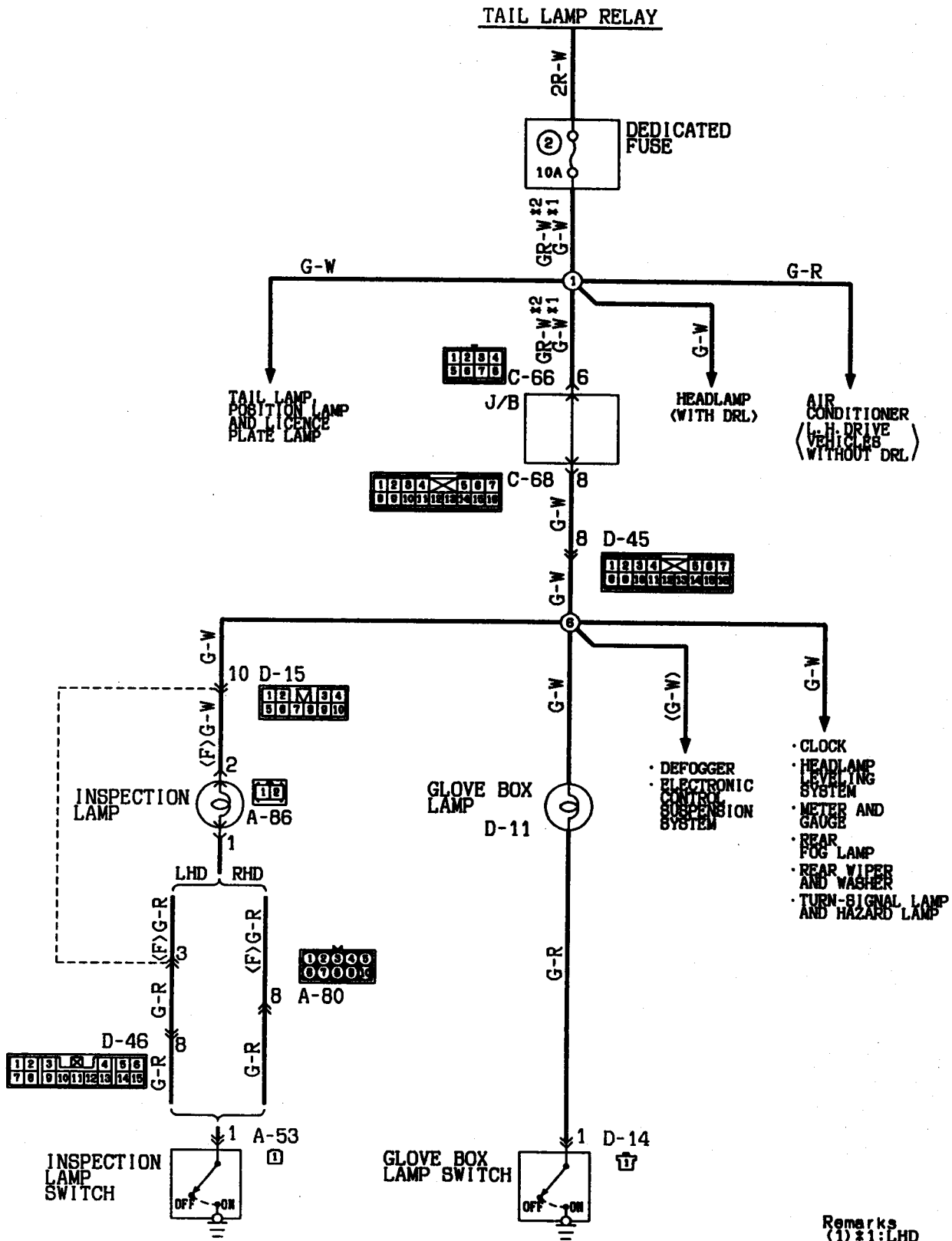
REAR FOG LAMP
R. H. drive vehicles



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



GLOVE BOX LAMP AND INSPECTION LAMP



Remarks
 (1) *1: LHD
 (2) *2: RHD

Wire colour code

B:Black LG:Light green
 BR:Brown O:Orange

G:Green GR:Gray

L:Blue R:Red

W:White P:Pink

Y:Yellow V:Violet

BB:Sky blue

ROOM LAMP, FOOT LAMP AND IGNITION KEY CYLINDER ILLUMINATION LAMP (See P. 4B-74, 76.)

OPERATION

<Room lamp>

- Battery voltage is always applied to the room lamp. When the room lamp switch is turned to "ON", the room lamp will remain lit. After either door is opened if the room lamp switch is at "DOOR" position, the room lamp will come on.
- With the room lamp turned on (with the ignition switch in the OFF position and with the room lamp switch in the DOOR position), close all doors, and the timer circuit in the ETACS control unit will be activated to gradually vary the voltage for approx. 6 seconds owing to the duty control, and the voltage will be output to transistor Tr. Since the voltage applied to the room lamp gradually decreases, the room lamp will be dimmed.
- If the ignition switch is turned to "ON" while the room lamp is lit (while the timer is activated), the timer circuit will be opened to turn "off" transistor Tr. This will immediately turn off the room lamp without dimming.

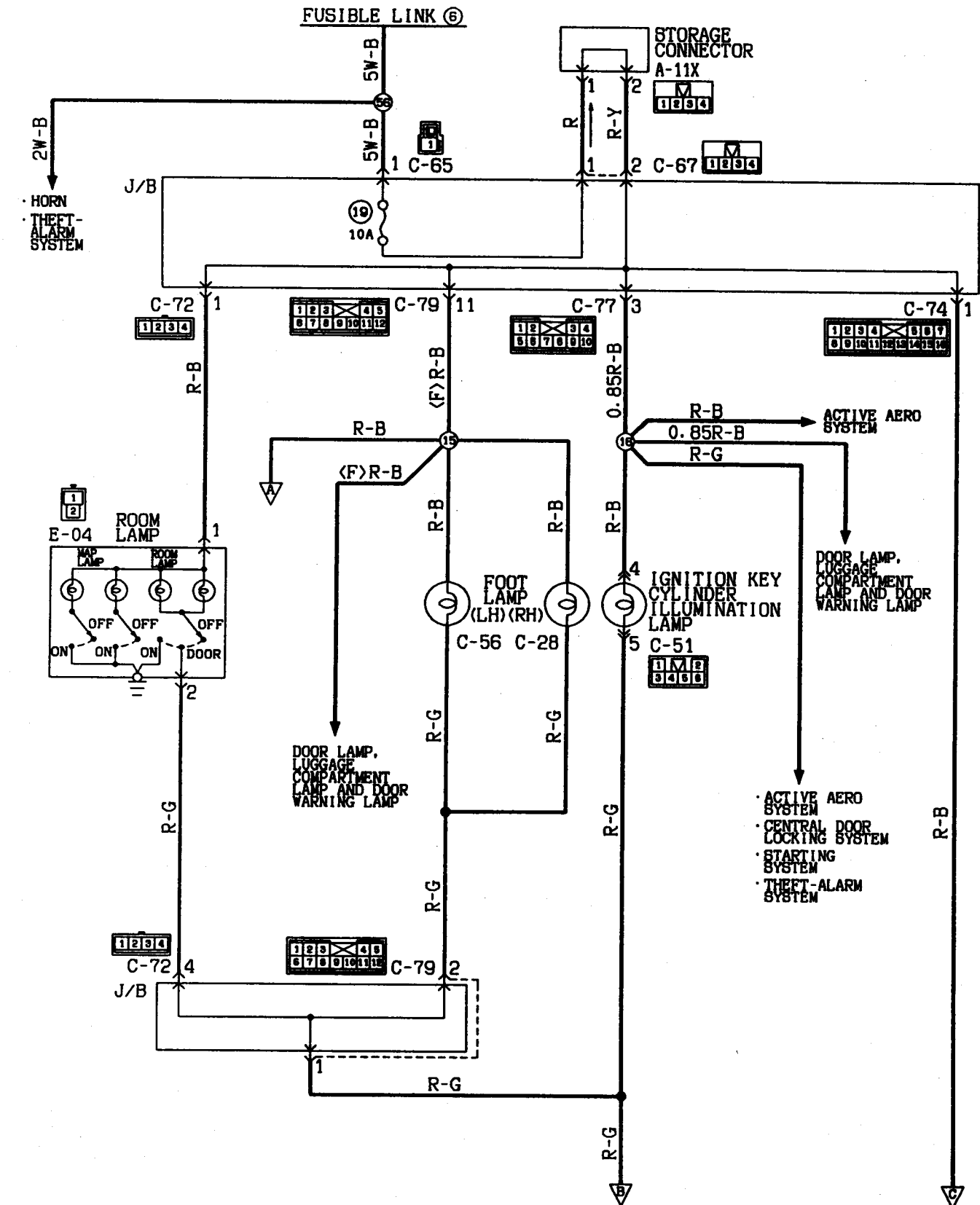
<Foot lamps and ignition key illumination lamp>

- Battery voltage is always applied to the foot lamps and ignition key illumination lamp. With the ignition switch in the OFF position, open any door, and all lamps will come on.
- With all lamps turned on (with the ignition switch in the OFF position), close all doors, and the timer circuit inside the ETACS control unit will operate in the same manner as the room lamp to dim all lamps. When the ignition switch is placed in the ON position with all lamps turned on (with the timer in operation), the same operation as the room lamp will take place.

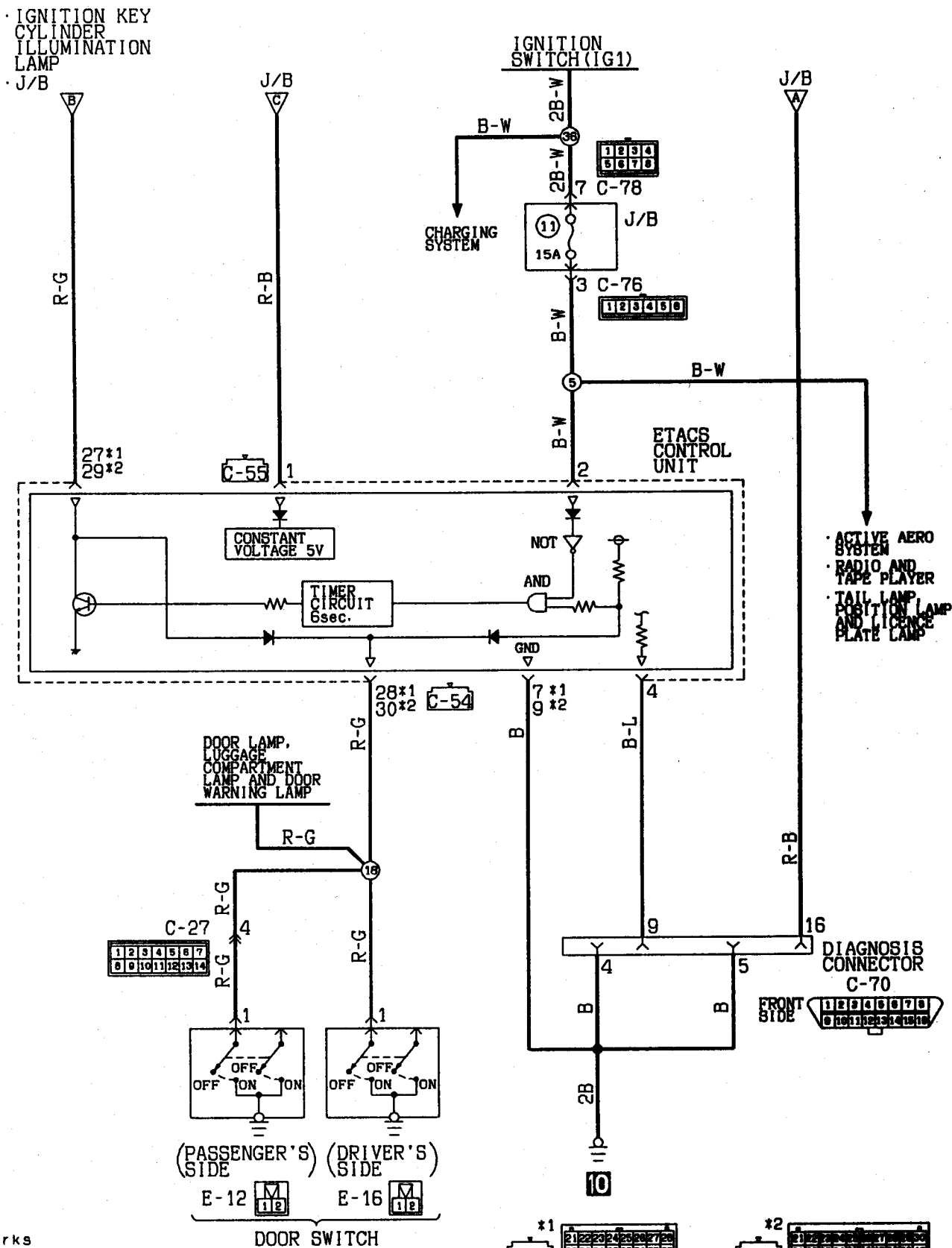
TROUBLESHOOTING HINTS

Phenomenon		Checking method
Room lamp does not come on when a door is opened with the room lamp switch in the DOOR position.	The foot lamps and ignition key cylinder illumination lamp don't illuminate, either.	<ul style="list-style-type: none"> • Check the door switch input signal. • Check the door switch. • Check the multi-purpose fuse No. 19.
	The foot lamps and ignition key cylinder illumination lamp illuminate.	<ul style="list-style-type: none"> • Check the room lamp switch. • Check the room lamp bulb.
Room lamp, foot lamps and ignition key illumination lamp go out at once when doors are closed.		<ul style="list-style-type: none"> • Check the door switch input signal.
Even if ignition switch is turned on while lamps are being dimmed, lamps do not go out at the same time.		<ul style="list-style-type: none"> • Check the ignition switch input signal.

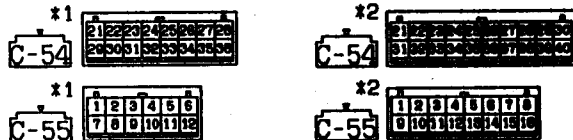
ROOM LAMP, FOOT LAMP AND IGNITION KEY CYLINDER ILLUMINATION LAMP
L.H. drive vehicles



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

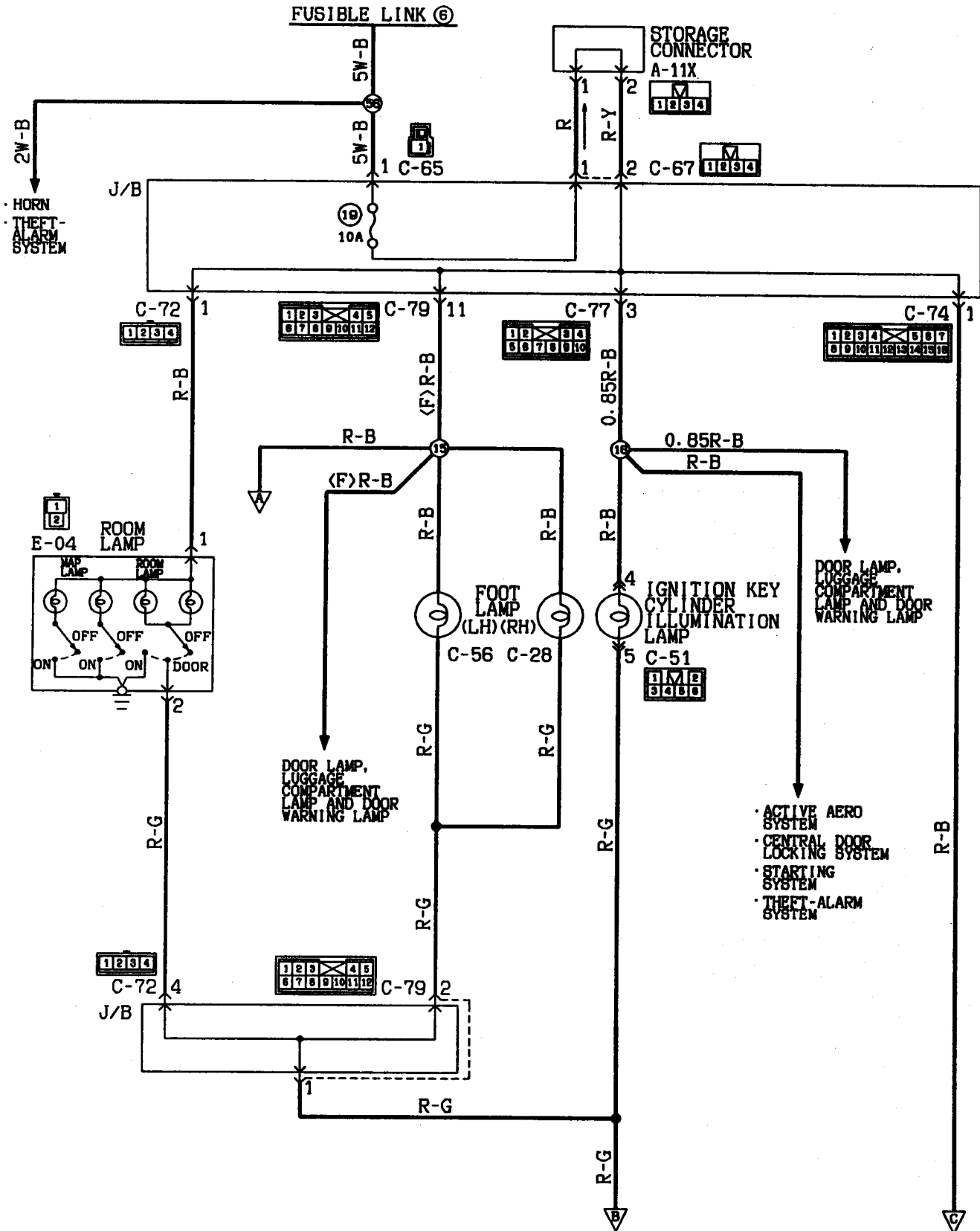


Remarks
 (1)*1: Vehicles without theft-alarm system
 (2)*2: Vehicles with theft-alarm system

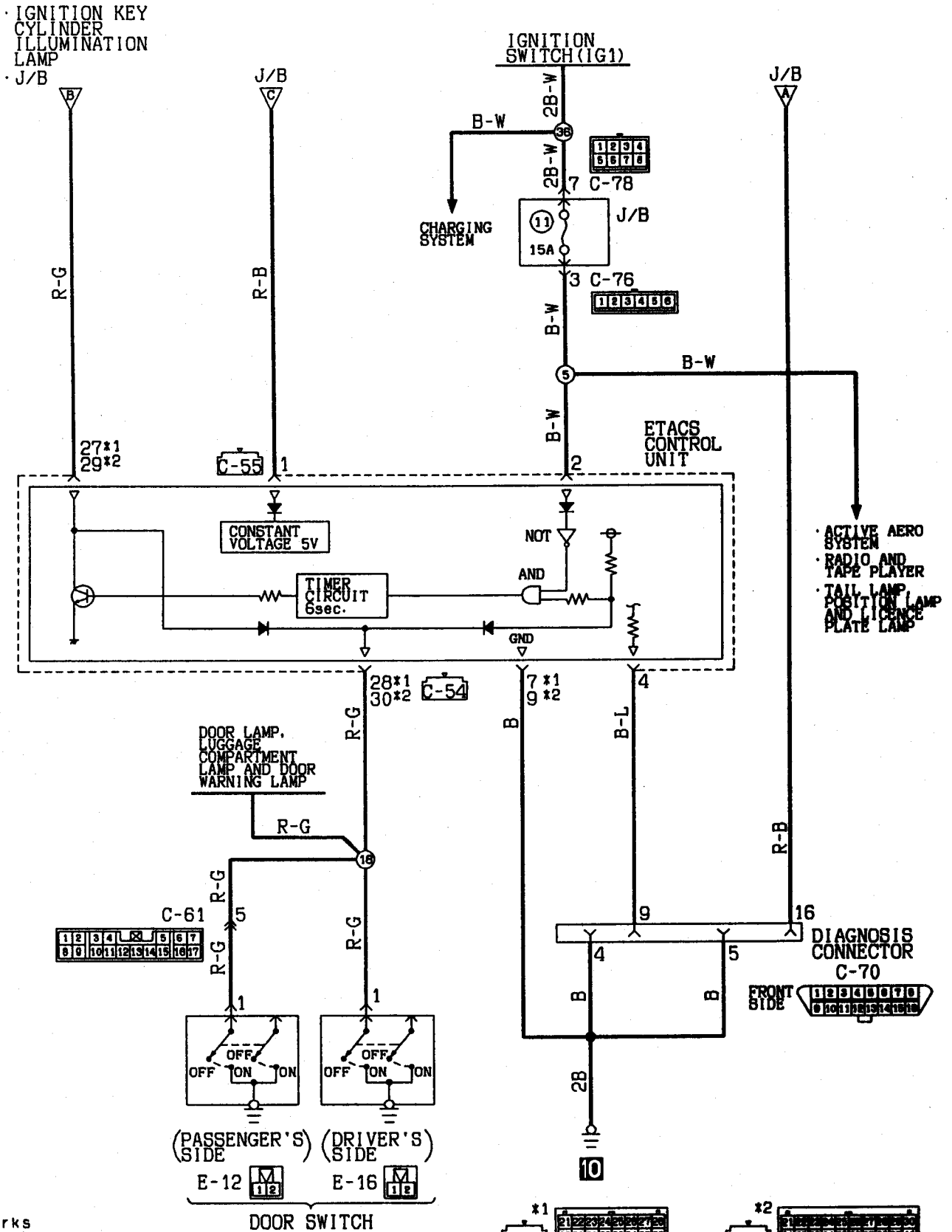


ROOM LAMP, FOOT LAMP AND IGNITION KEY CYLINDER ILLUMINATION LAMP

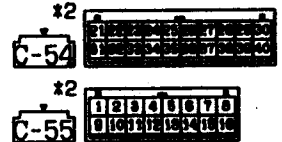
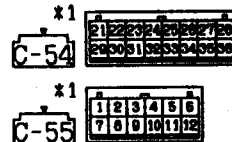
R. H. drive vehicles



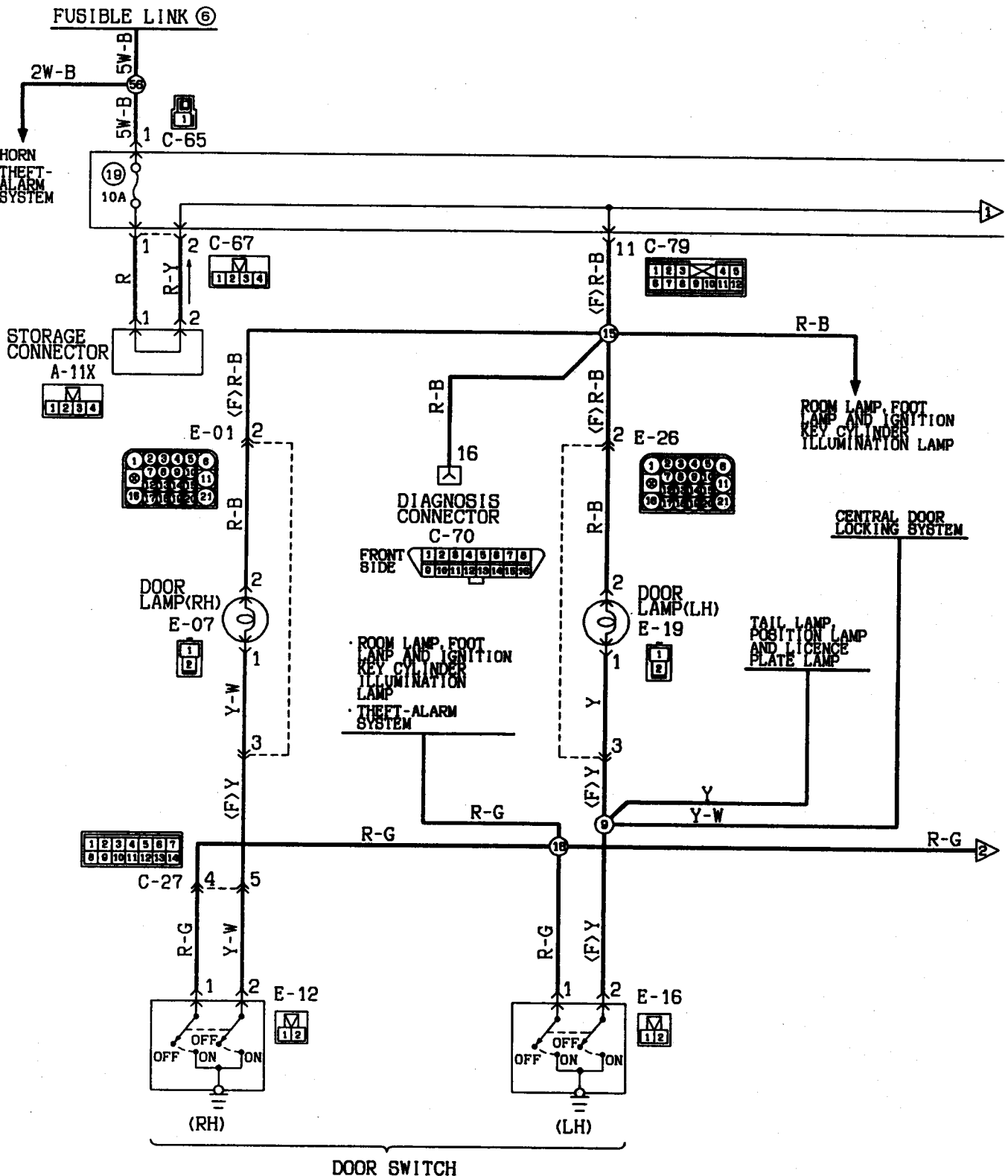
Wire colour code
 B:Black LG:Light green G:Green L:Blue V:White Y:Yellow SB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



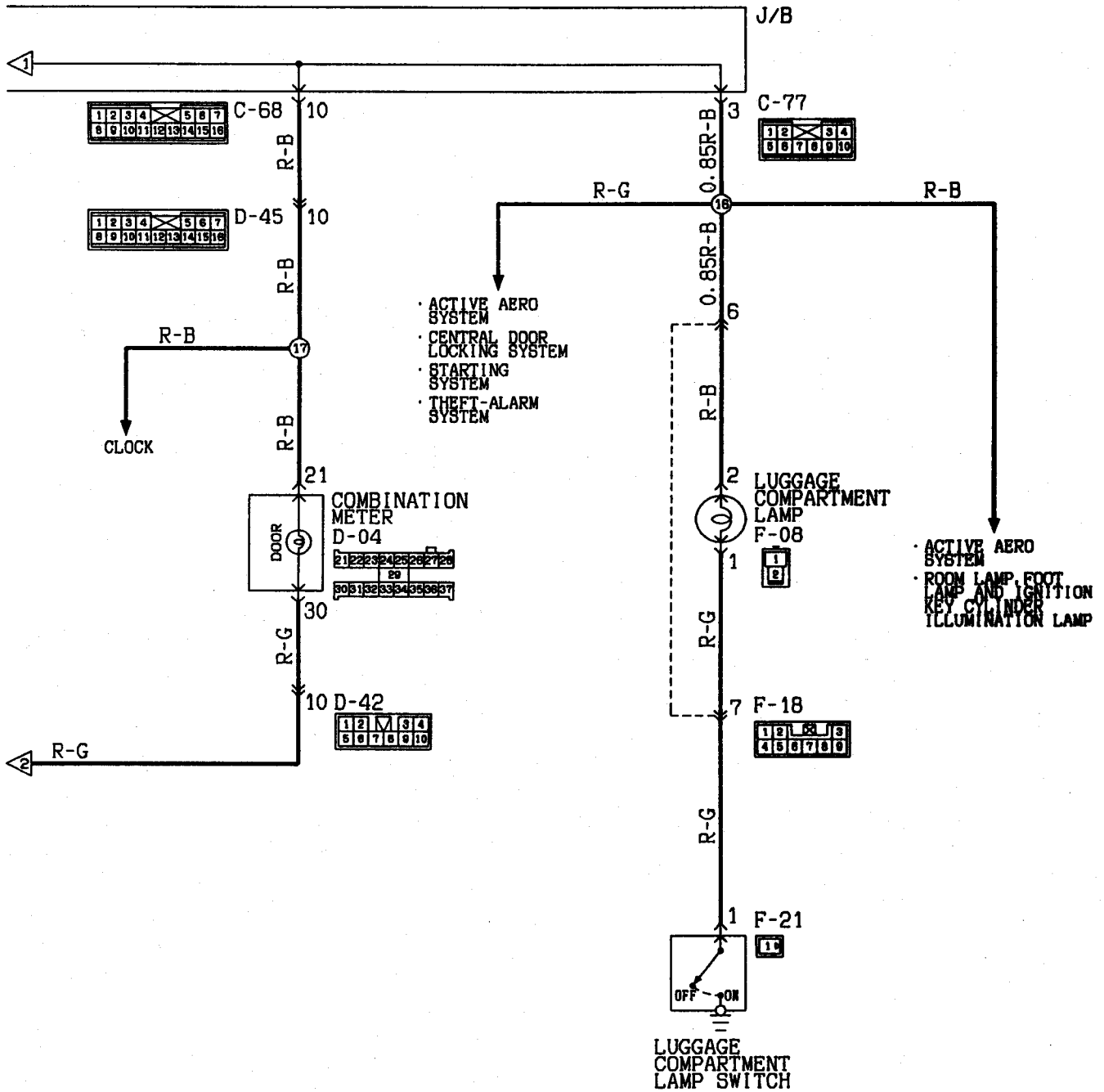
Remarks
 (1)*1: Vehicles without theft-alarm system
 (2)*2: Vehicles with theft-alarm system



DOOR LAMP, LUGGAGE COMPARTMENT LAMP AND DOOR WARNING LAMP
L.H. drive vehicles

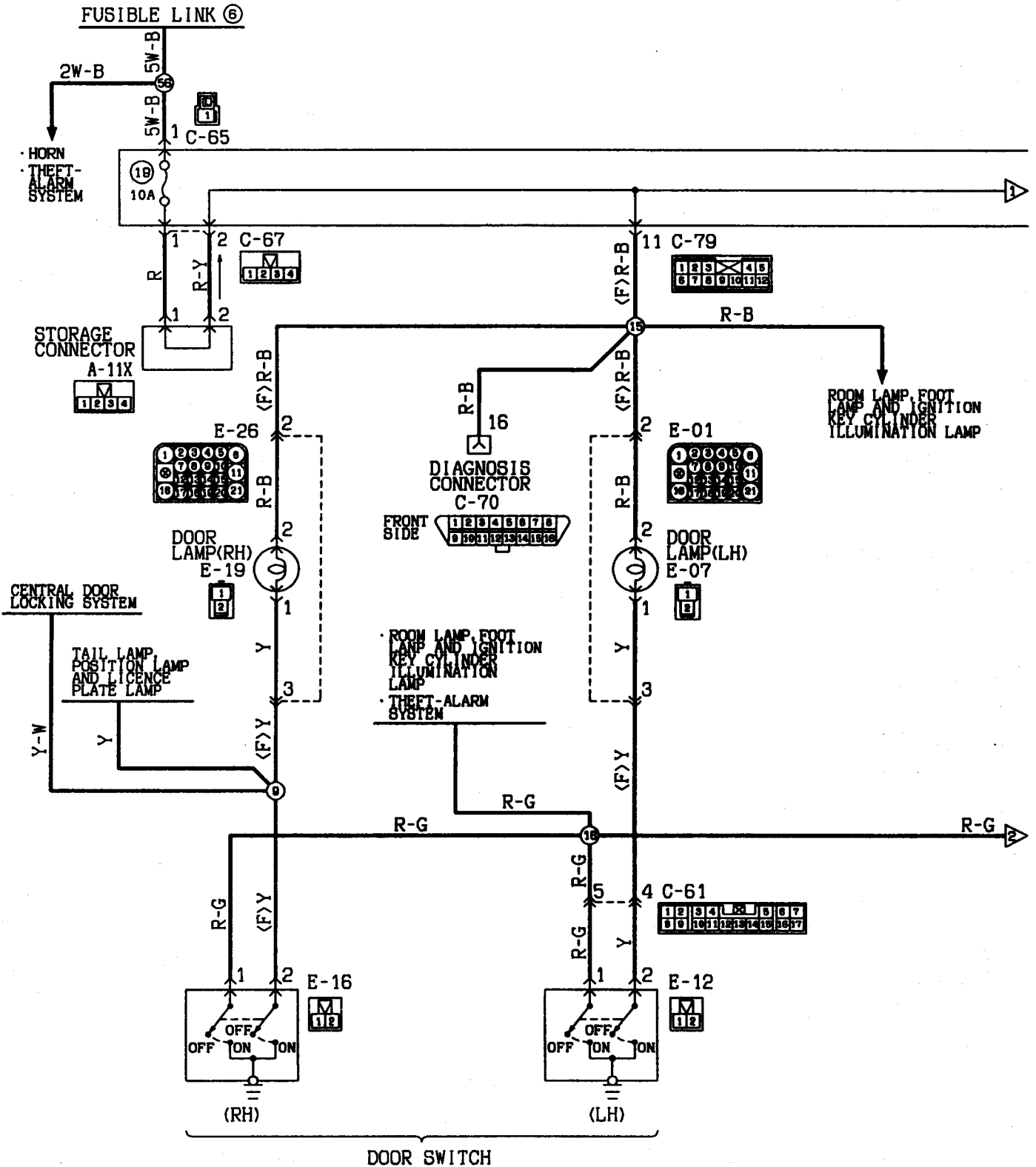


Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



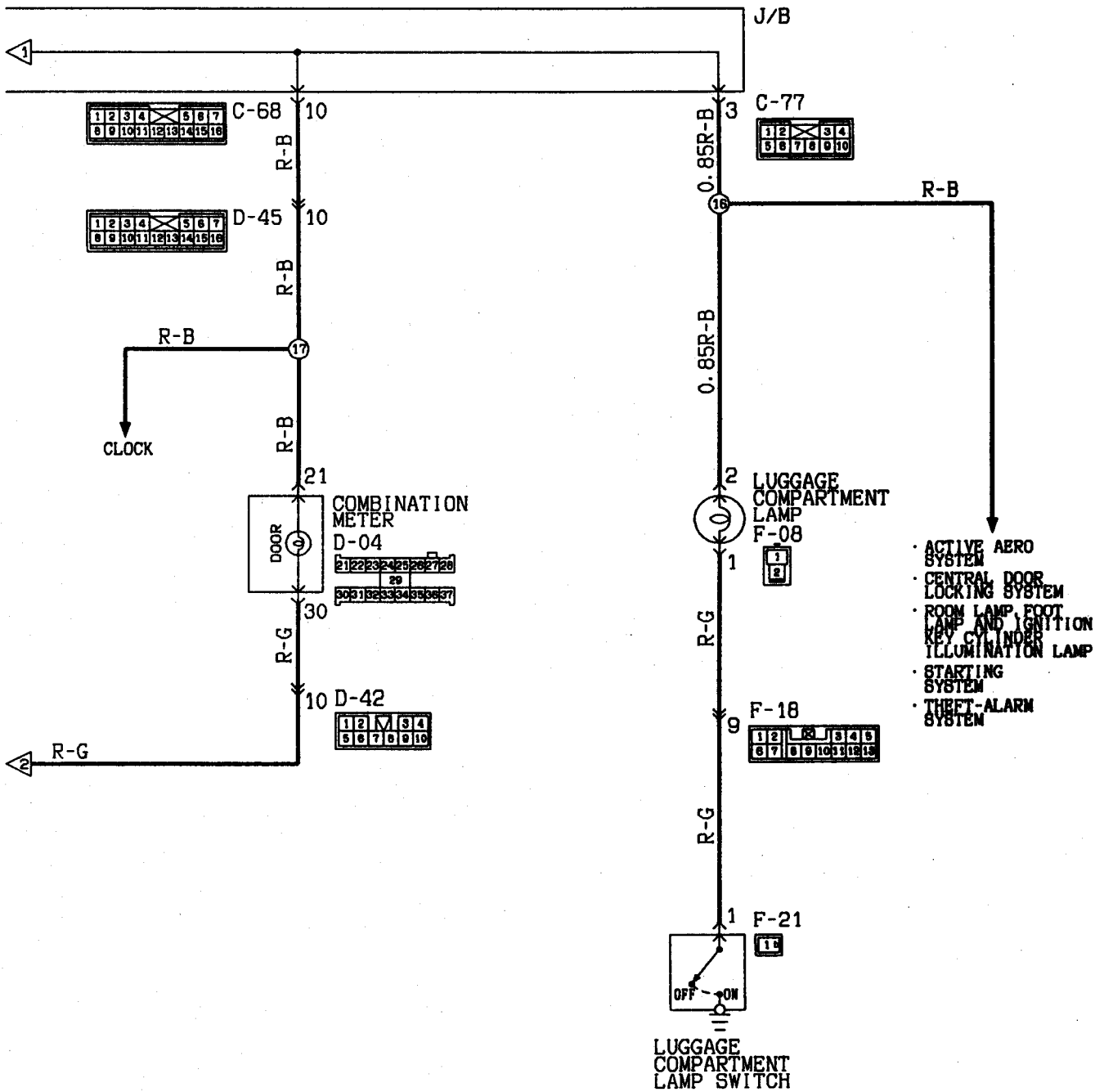
DOOR LAMP, LUGGAGE COMPARTMENT LAMP AND DOOR WARNING LAMP

R. H. drive vehicles



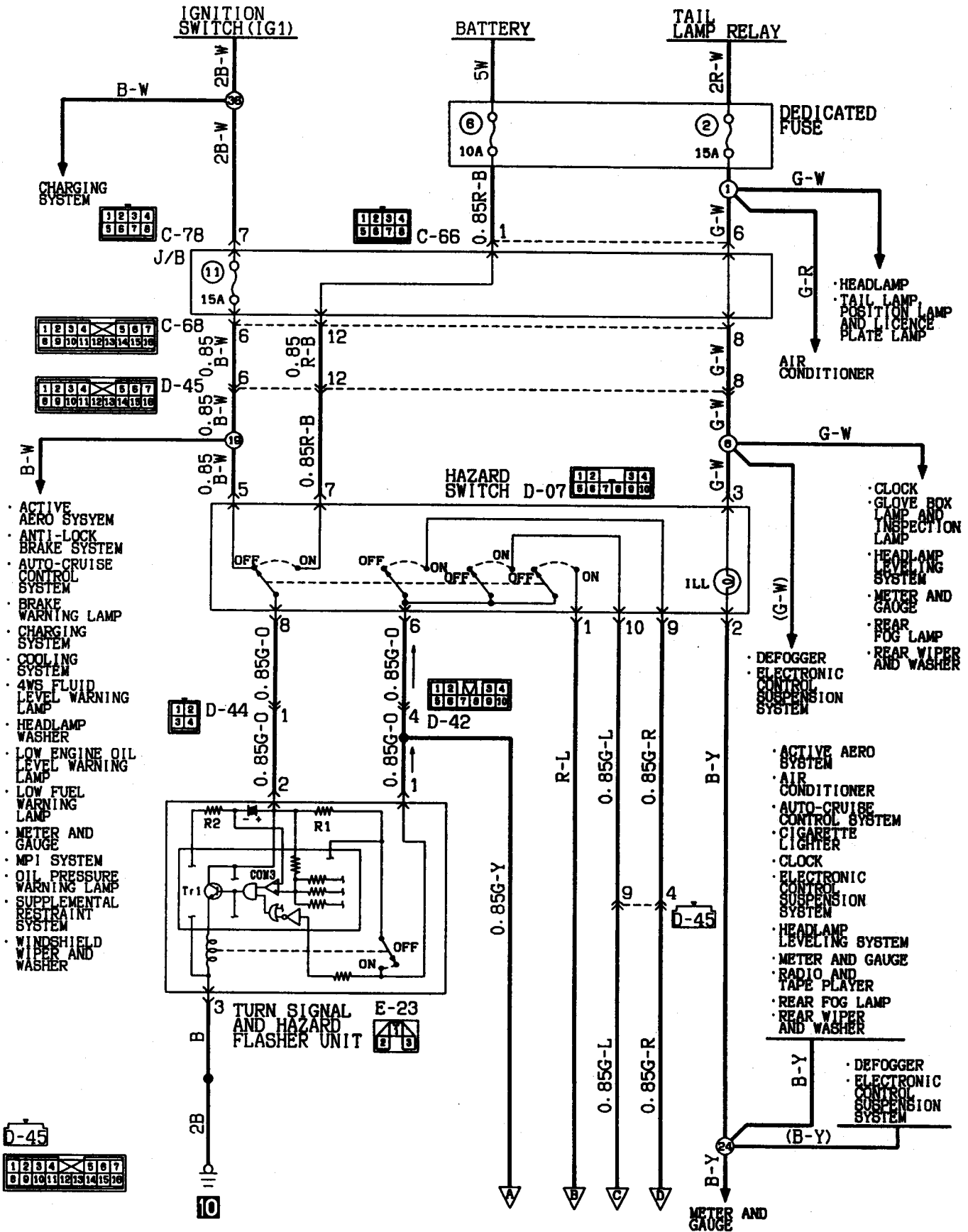
Wire colour code

B:Black	LG:Light green	G:Green	L:Blue	V:White	Y:Yellow	SB:Sky blue
BR:Brown	O:Orange	GR:Gray	R:Red	P:Pink	V:Violet	

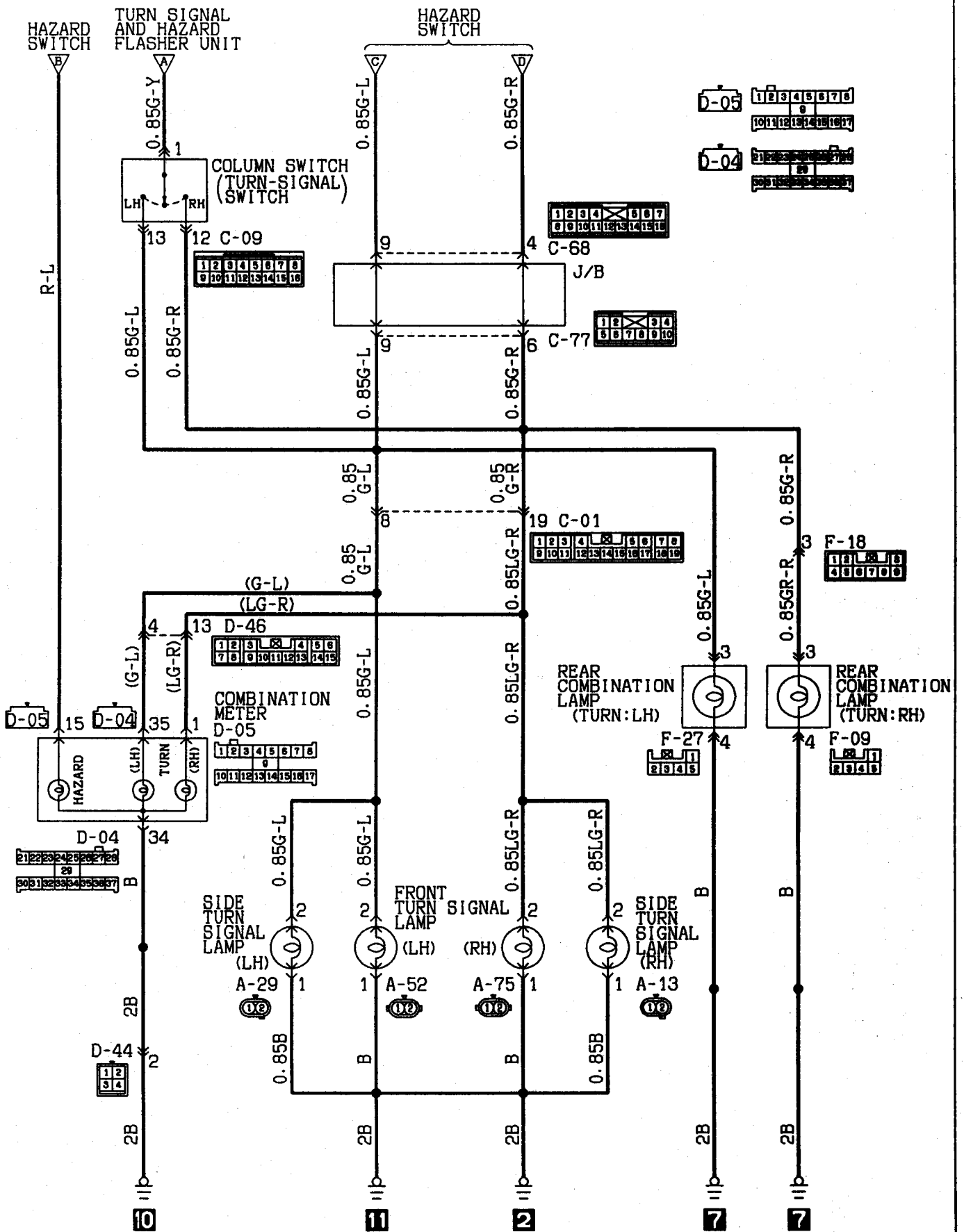


TURN-SIGNAL LAMP AND HAZARD LAMP

L. H. drive vehicles



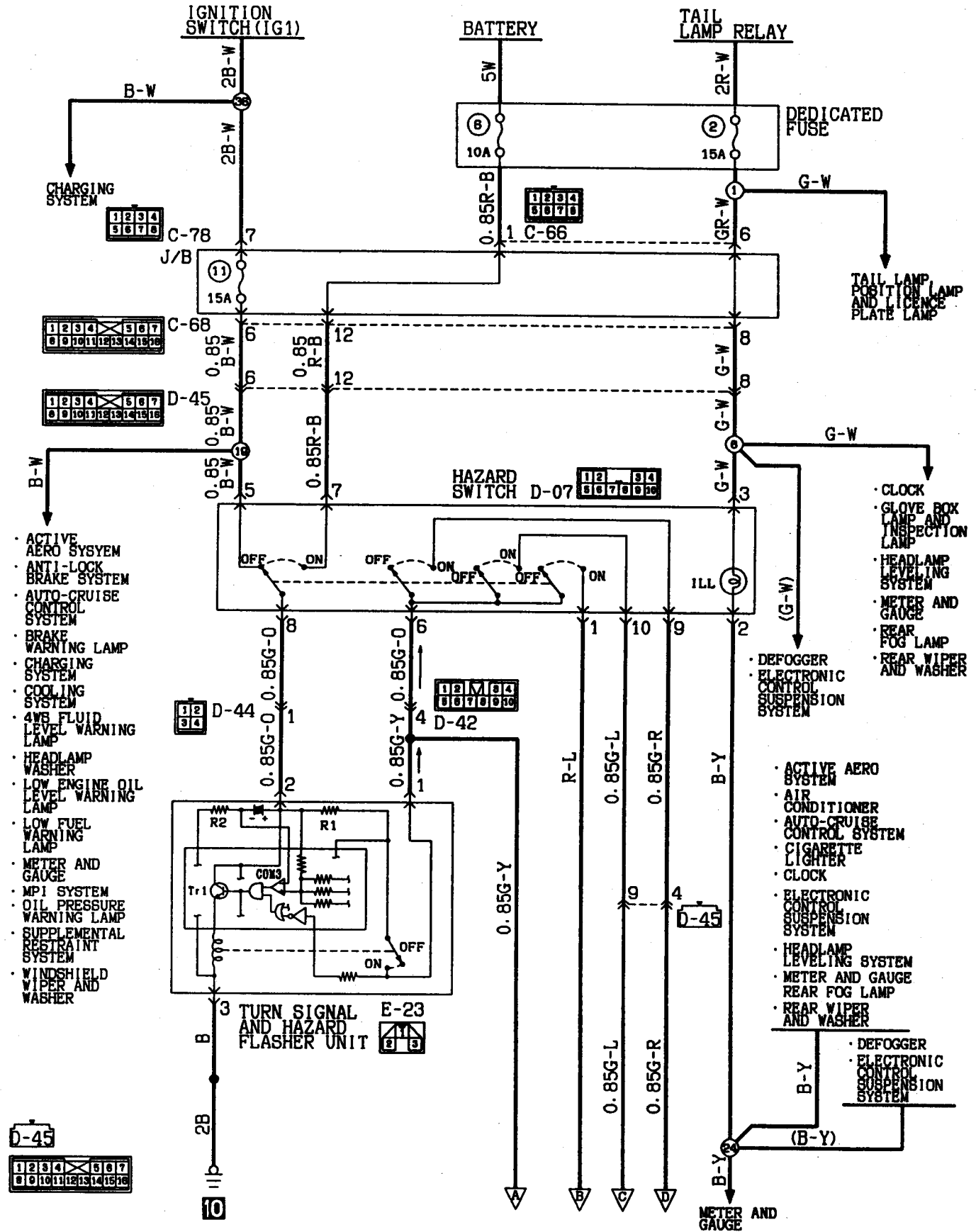
KX35-AC-R0915-EC

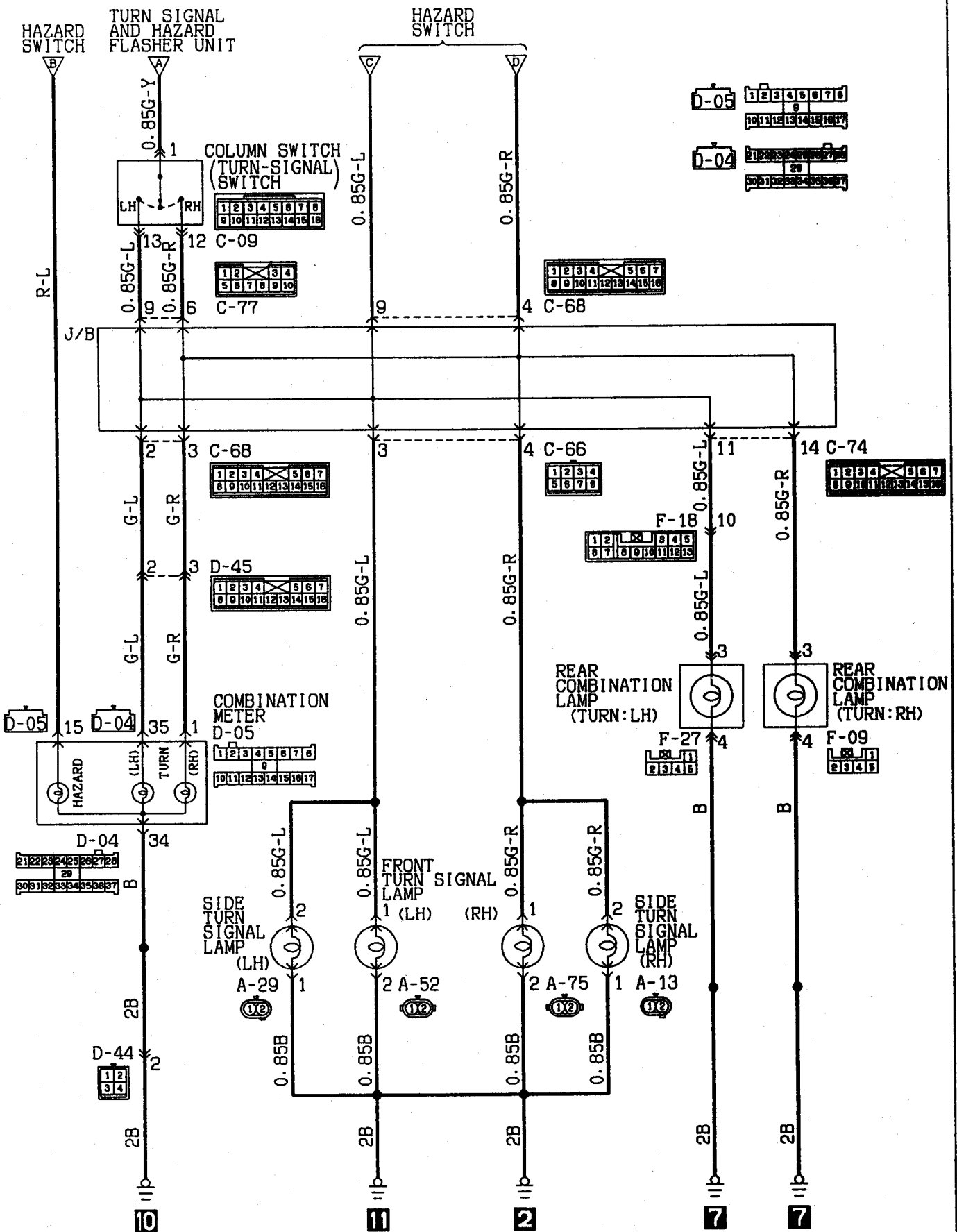


Wire colour code
 B:Black LG:Light green G:Green L:Blue W:White Y:Yellow BB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

TURN-SIGNAL LAMP AND HAZARD LAMP

R. H. drive vehicles





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

TURN-SIGNAL LAMP AND HAZARD LAMP (See P. 4B-78, 80.)**OPERATION****<Turn-signal lamp>****1. In normal operating condition**

- When the ignition switch is placed in the ON position, battery voltage is applied through the hazard switch to the turn-signal and hazard flasher unit.
- When the turn-signal switch is placed in the LH (or RH) position, Tr1 in the flasher unit turns ON, causing the relay contacts in the flasher unit to close. This results in the LH (or RH) turn-signal lamp and turn-signal indicator lamp lighting up.
- At the same time, the capacitor is charged through R2 up to the lower limit as set by COM3.
- As soon as the capacitor is fully charged, the output from COM3 is inverted, turning OFF Tr1. This opens the relay contacts and, as a result, the LH (or RH) turn-signal lamp and turn-signal indicator lamp go out.
- At the same time when Tr1 turns OFF, the capacitor starts discharging. As soon as the capacitor completes discharging, the COM3 output is inverted again causing Tr1 to turn ON. This results in the LH (or RH) turn-signal lamp and turn-signal indicator lamp coming on.
- These sequences of operation repeat, which results in the LH (or RH) turn-signal lamp and turn-signal indicator lamp flashing off and on.

2. When one bulb is burnt

- When either one of the turn-signal lamp bulbs goes out, it causes the resistance of the entire lamp circuit to increase, hence a smaller voltage drop at R1 in the flasher unit.
- This smaller voltage drop is sensed and the lower voltage limit set by COM3 is raised, thus shortening the time required by the capacitor before it is fully charged.
- As a result, the on-off cycle of Tr1 becomes shorter with the resultant greater number of times the lamp flashes on and off.

<Hazard lamp>

- When the hazard switch is placed in the ON position, the flasher unit relay contacts repeatedly close and open, which results in the RH and LH turn-signal lamps, turn-signal indicator lamps, and hazard warning indicator lamps flashing on and off at the same time.

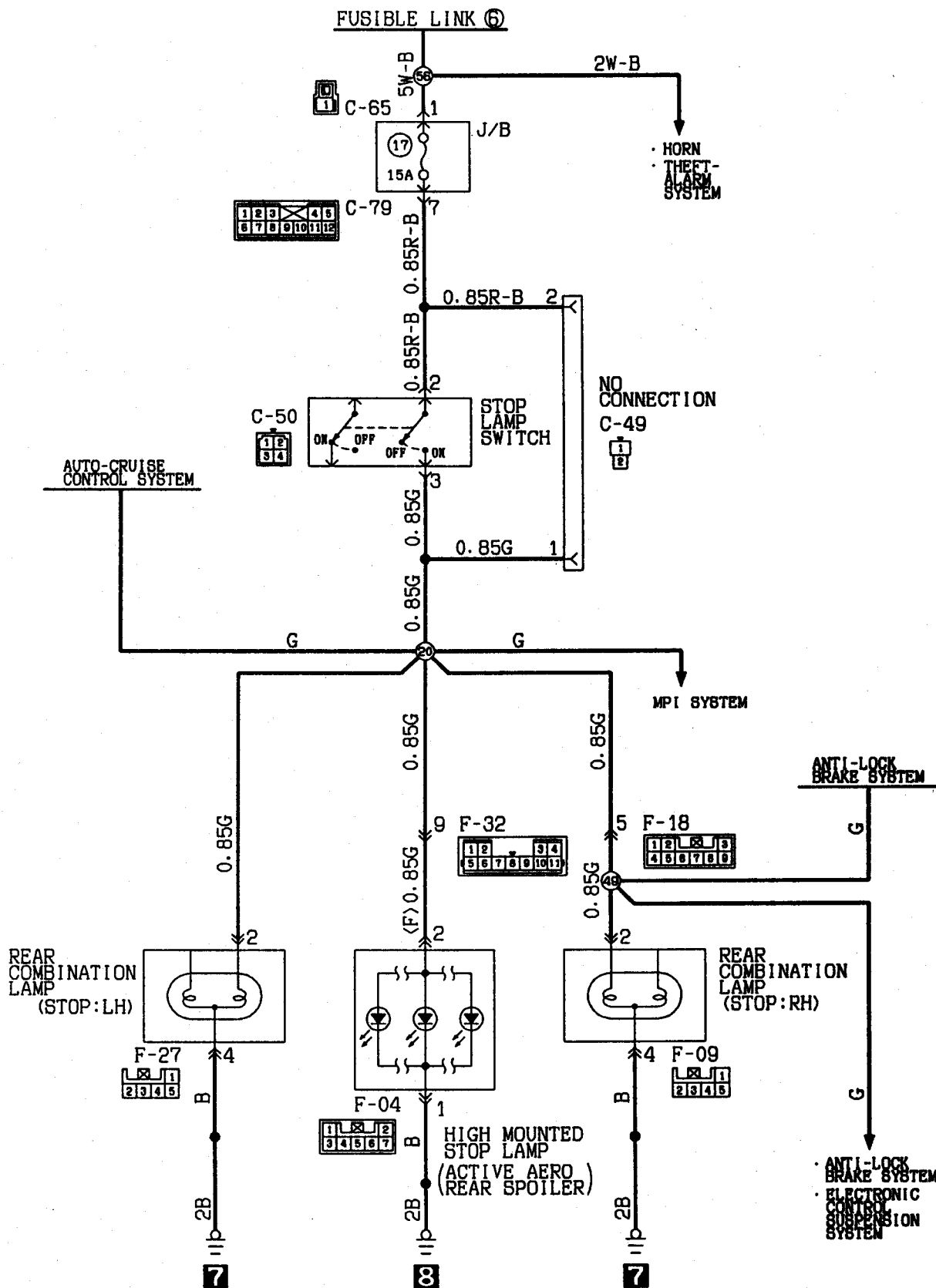
Remark

- The number of times the hazard lamps flash on and off does not change even when one bulb is out.

TROUBLESHOOTING HINTS

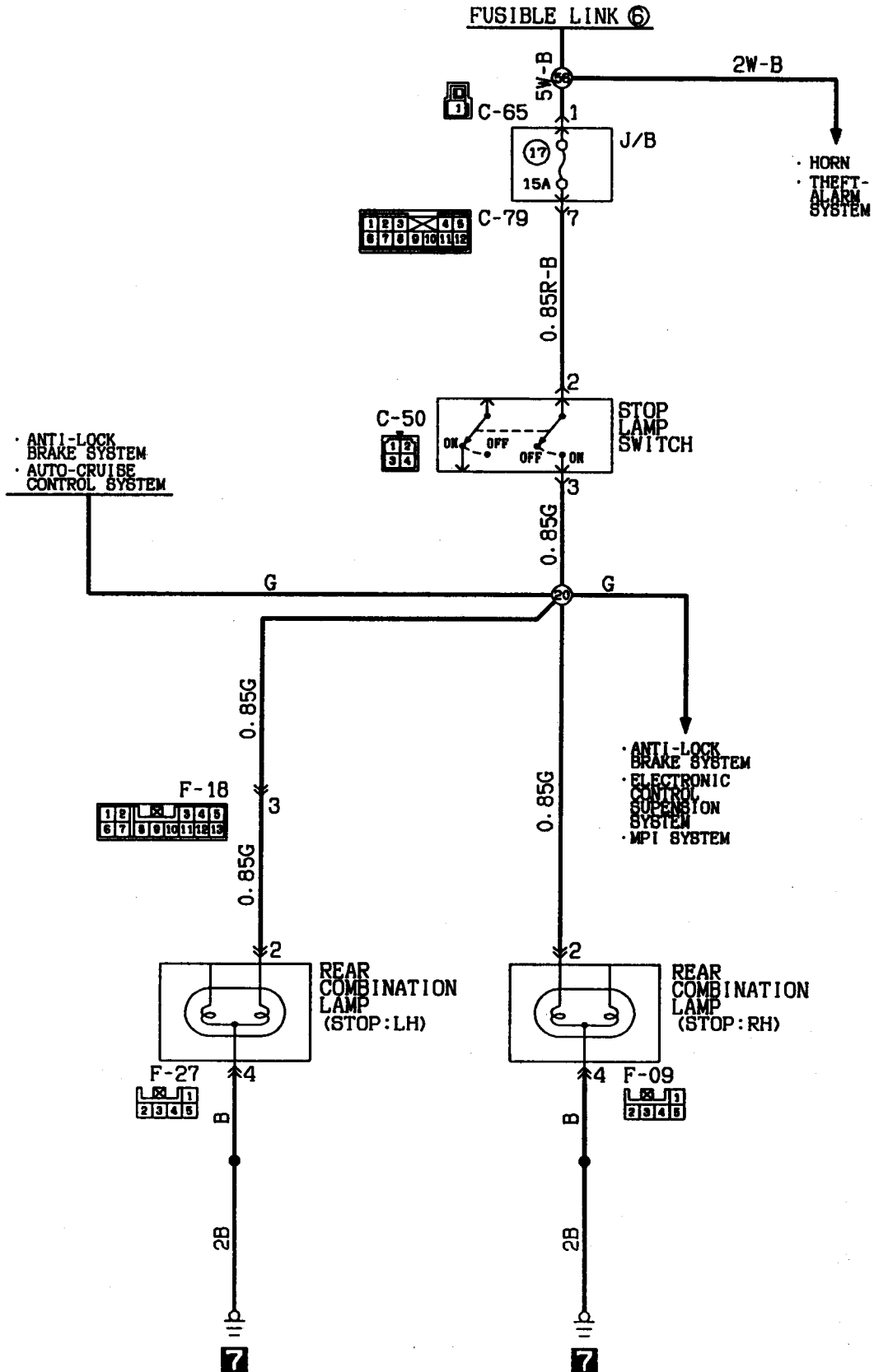
1. Neither the turn-signal lamps nor hazard lamps operate.
 - Check hazard switch contacts (on power source end).
 - Check flasher unit.
2. All LH or RH turn-signal lamps do not operate.
 - 1) Hazard lamp is fully operational.
 - Check turn-signal switch.
3. Flashing cycle of turn signal lamps is shorter.
 - Check the lamp bulb.
4. Hazard lamp does not operate.
 - 1) Turn-signal lamps are operational.
 - Check hazard switch contacts (on hazard lamp end).

STOP LAMP
L.H. drive vehicles



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

STOP LAMP
R. H. drive vehicles



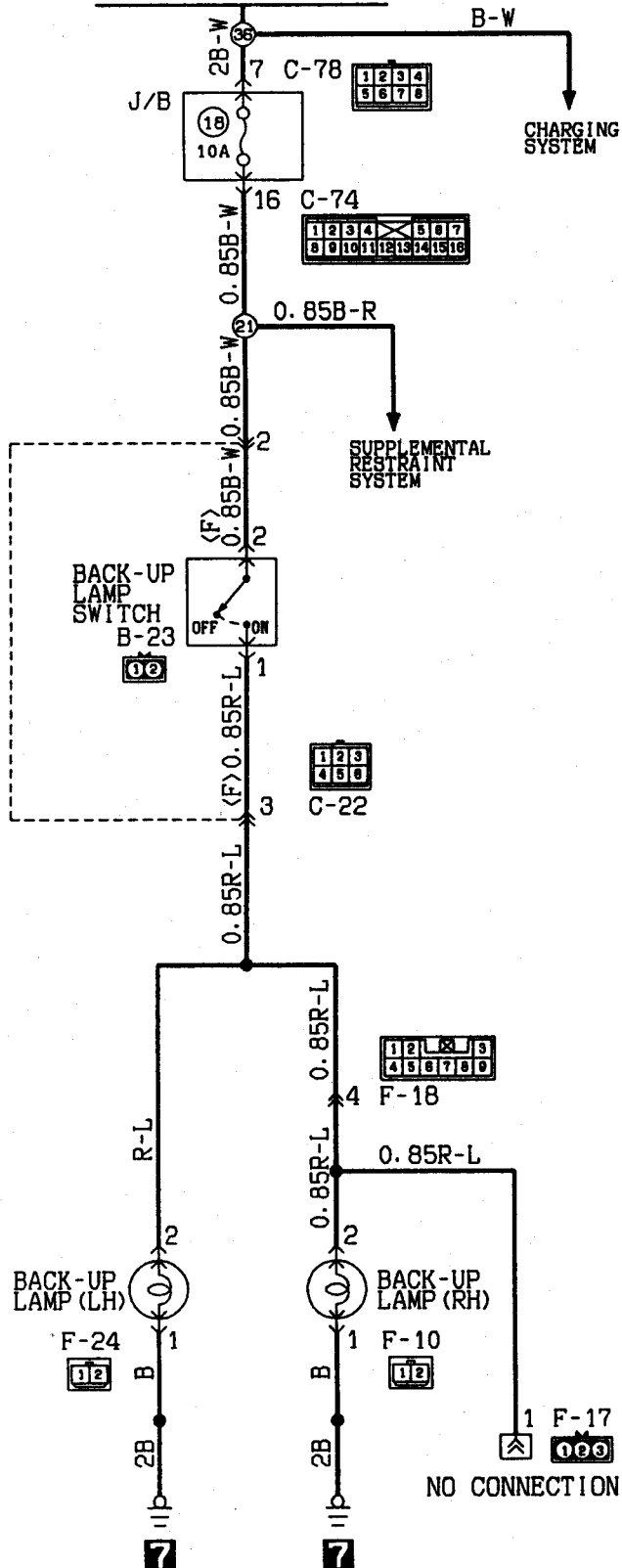
Wire colour code

B:Black LG:Light green G:Green L:Blue W:White Y:Yellow 8B:Sky blue
BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

BACK-UP LAMP

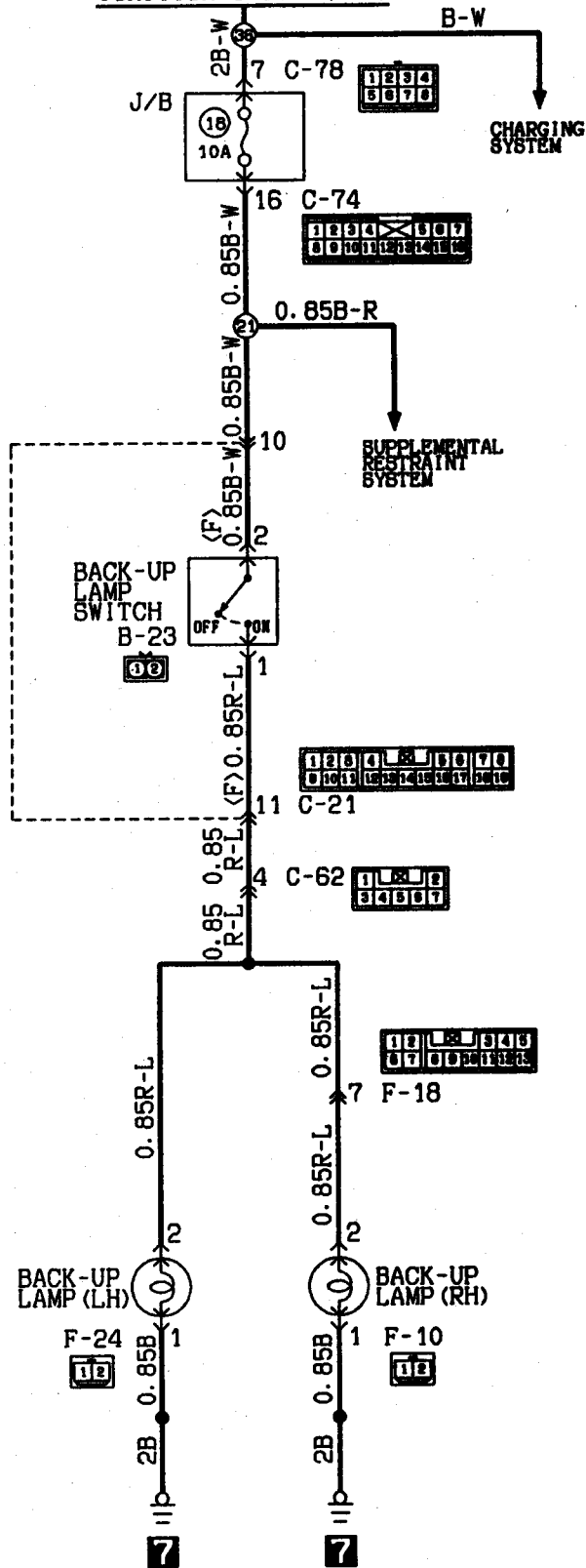
<L.H. drive vehicles>

IGNITION SWITCH(IG1)



<R.H. drive vehicles>

IGNITION SWITCH(IG1)



Wire colour code

B:Black LG:Light green G:Green L:Blue V:White Y:Yellow 8B:8ky blue
BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

BACK-UP LAMP (See P. 4B-89.)**OPERATION**

- When, with the ignition switch at the "ON" position, the shift lever is moved to the "R" position, the back up lamp switch is switched ON and the back-up lamp illuminates.

HORN (See P. 4B-91, 92.)**OPERATION**

- The horn switch always receives battery voltage via the dedicated fuse ④ and the coil of the horn relay.
- When the horn switch is set to ON, the contacts of the horn relay close. Then current flows through the dedicated fuse ④ to the contacts of the horn relay, the horn and earth, causing the horn to sound.

TROUBLESHOOTING HINTS

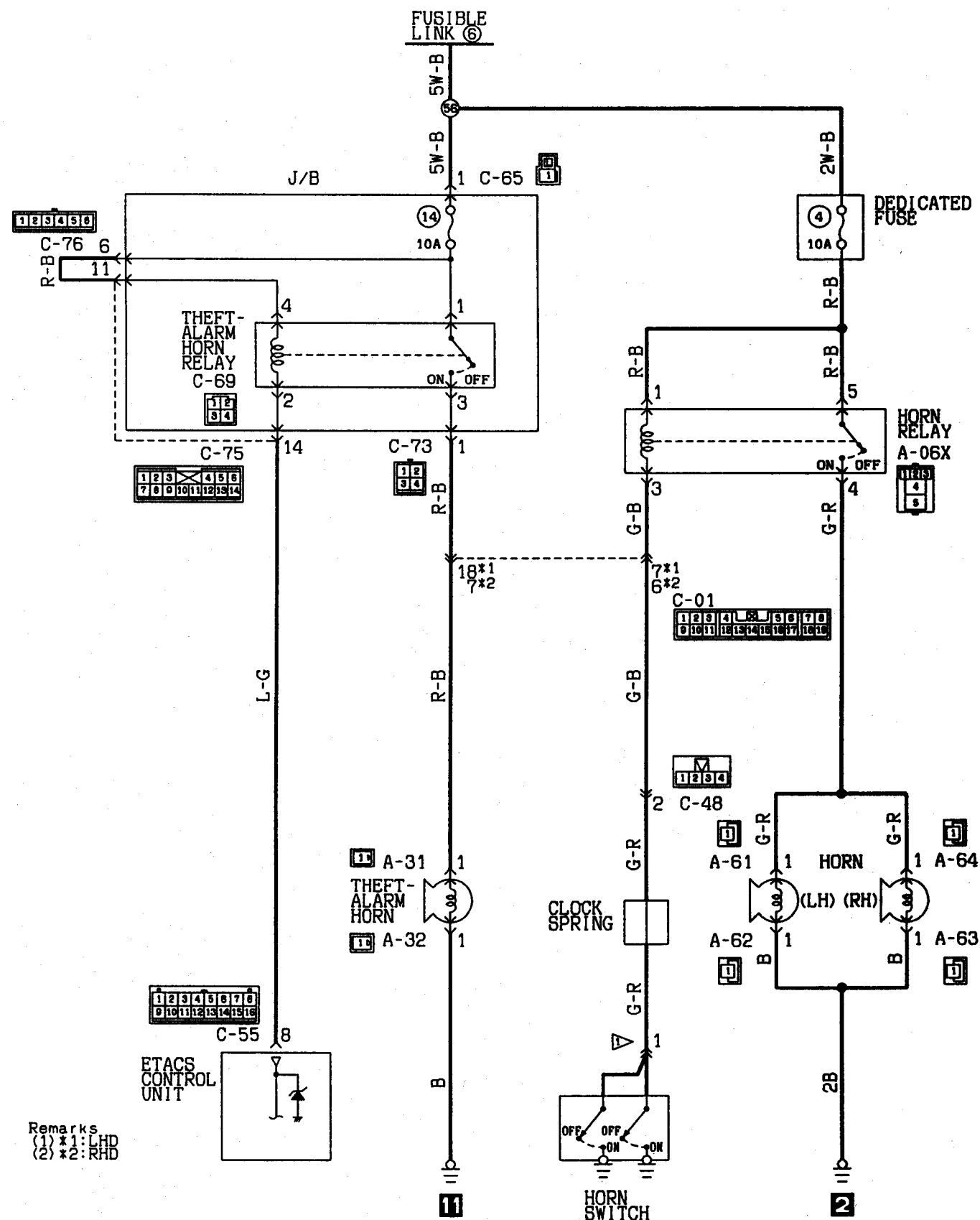
1. One of the horn does not sound.
 - Check the horn.
2. Horns do not sound.
 - Check the horn switch.
 - Check the dedicated fuse ④.

NOTE

For vehicles equipped with the theft-alarm system, refer to GROUP 54 Chassis Electrical of the separate WORKSHOP MANUAL (Pub. No. PWUE9119).

HORN

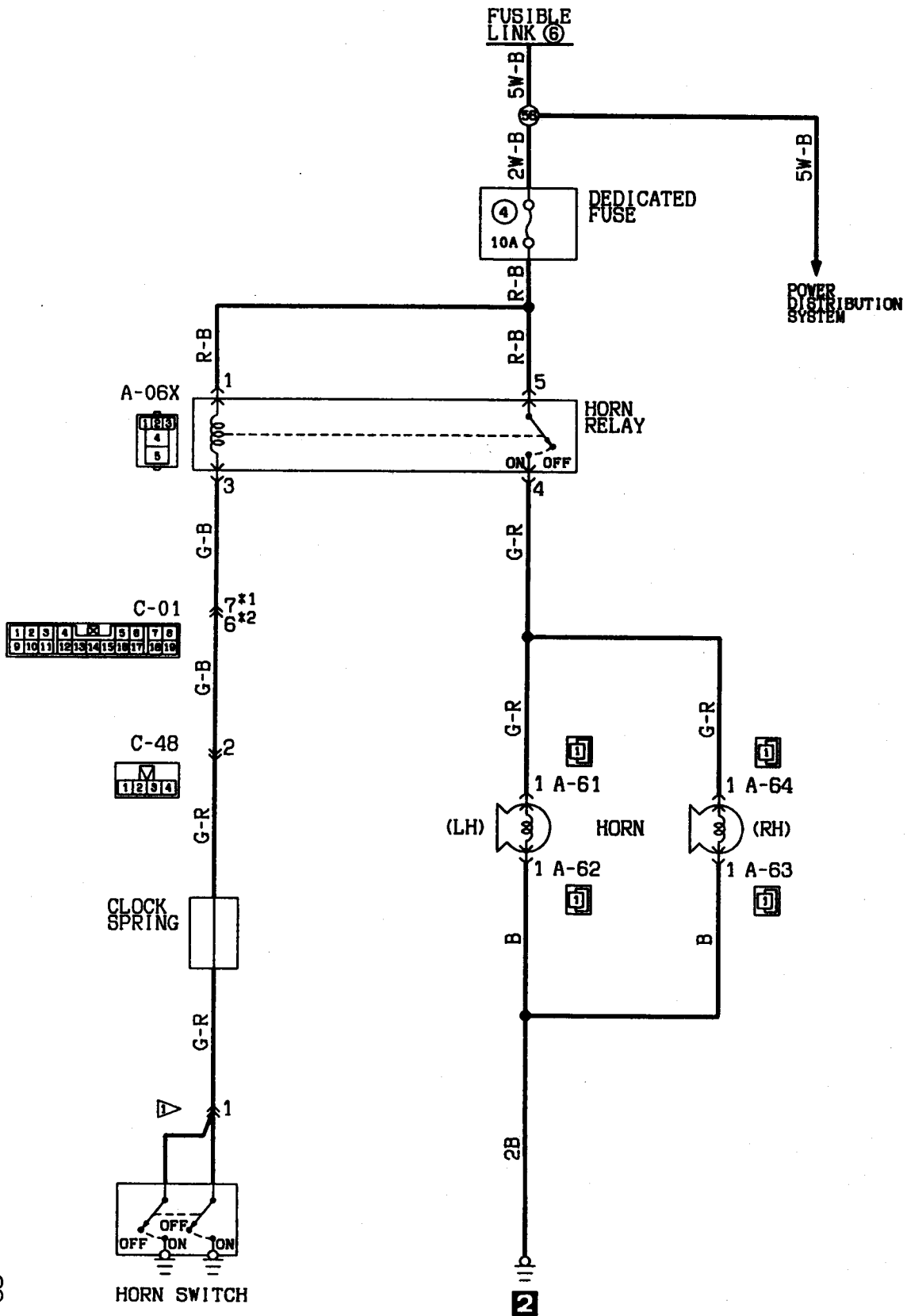
Vehicles with theft-alarm system



Remarks
 (1)*1: LHD
 (2)*2: RHD

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

HORN
Vehicles without theft-alarm system



Remarks
(1) *1: LHD
(2) *2: RHD

Wire colour code

B:Black LG:Light green G:Green L:Blue Y:White Y:Yellow SB:Sky blue
BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

METER AND GAUGE (See P. 4B-94.)**OPERATION****<Fuel gauge>**

- When the ignition switch is at the "ON" position, the fuel gauge is activated.
- When there is much fuel, the unit's resistance is small and the current flowing in the circuit is great, so the gauge's indicator indicates in the "F" area.
- When there is little fuel, the unit's resistance is high and the current flowing in the circuit is small, so the gauge's indicator indicates in the "E" area.

<Engine coolant temperature gauge>

- When the ignition switch is at the "ON" position, the engine coolant temperature gauge is activated.
- When the engine coolant temperature is high, the unit's resistance is low and there is a great flow of current in the circuit, so the gauge's indicator indicates in the "H" area.
- When the engine coolant temperature is low, the unit's resistance is high and there is a small flow of current in the circuit, so the gauge's indicator indicates in the "C" area.

<Speed sensor>

- Pulses are produced in accordance with the vehicle speed, and vehicle-speed signals are input to systems (the MPI system, etc.) that regulate according to the vehicle speed.

<Oil pressure gauge>

- When the ignition switch is at the "ON" position, the oil pressure gauge is activated.
- When oil pressure is high, the internal contacts of the gauge unit are kept closed for a longer period of time. This causes more current to flow in the circuit, and the gauge pointer swings to the high pressure side.
- When oil pressure is low, the internal contacts of the gauge unit open in a shorter period of time. Therefore, there is less current flowing in the circuit and the gauge pointer swings to the low pressure side.

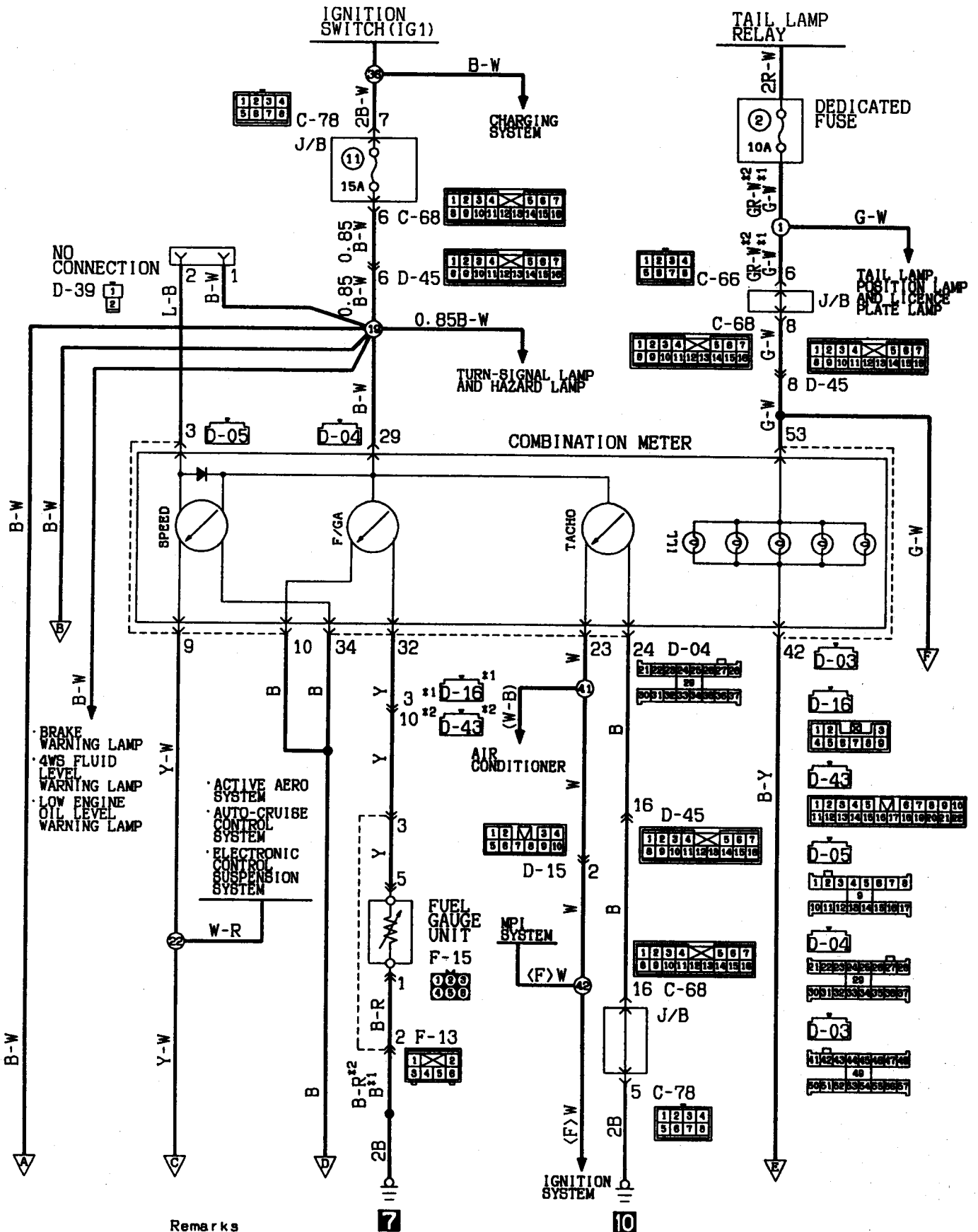
<Pressure gauge>

- When the ignition switch is set to the "ON" position, the gauge indicator will be at "0".
- When the engine is started, the indicator will move from "0" to the minus (—) side, and then, as the boost level increases, it will move to the plus (+) side.

TROUBLESHOOTING HINTS

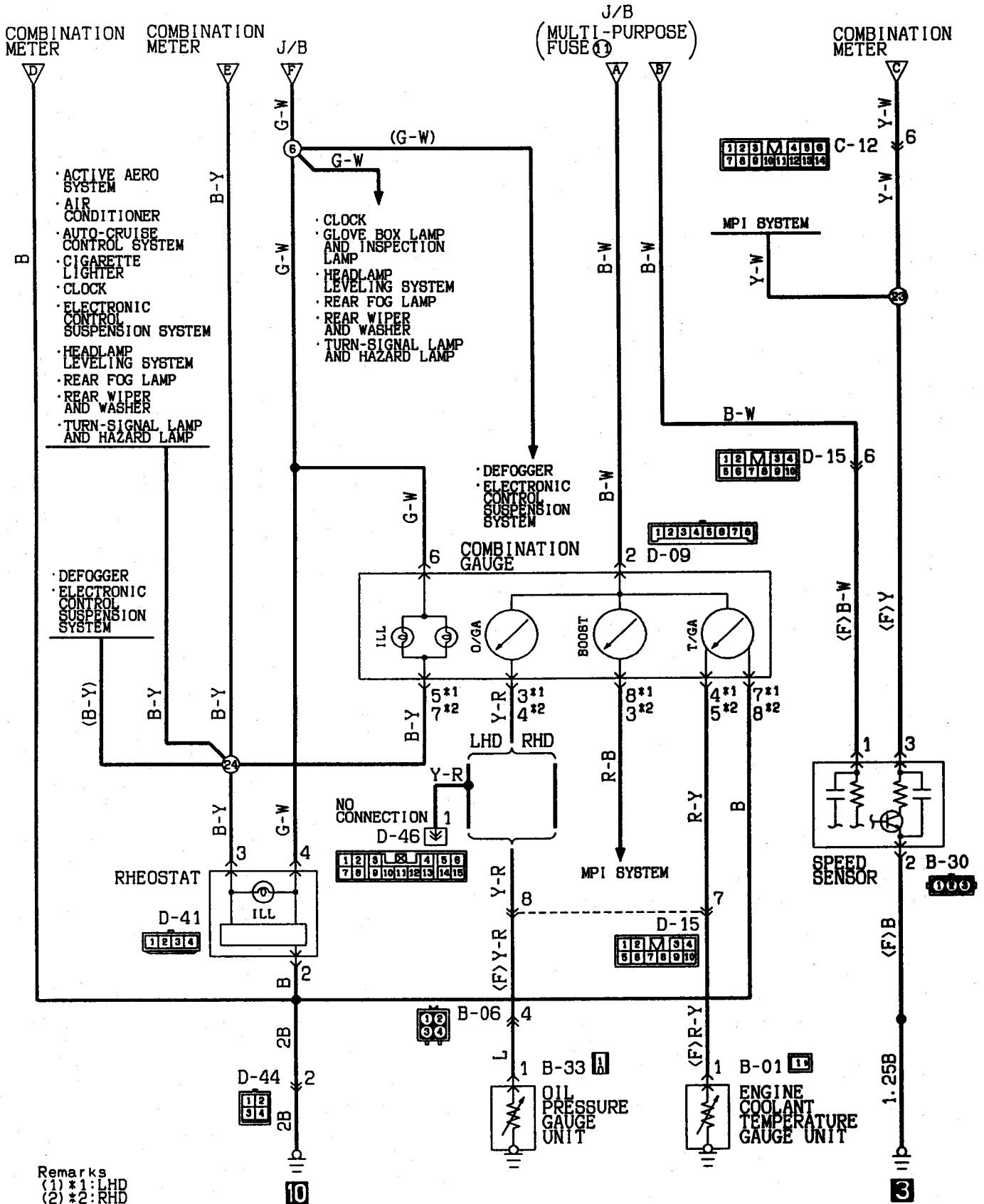
1. The fuel gauge doesn't function, or shows the incorrect indication.
 - (1) Disconnect the connector of the fuel pump and gauge unit assembly; the "F" side is indicated when terminal ⑤ is then earthed.
 - Check the fuel gauge.
2. The engine coolant temperature gauge doesn't function, or shows the incorrect indication.
 - (1) The "H" side is indicated when the connector of the engine coolant temperature gauge unit is disconnected and then earthed.
 - Check the engine coolant temperature gauge unit.
3. Systems dependent upon control according to the vehicle speed do not function correctly.
 - Check the speed sensor.
4. The oil pressure gauge doesn't function, or shows the incorrect indication.
 - (1) The "H" side is indicated when the connector of the oil pressure gauge unit is disconnected and then earthed.
 - Check the oil pressure gauge unit.
5. The meter illumination lamp does not illuminate.
 - (1) The tail lamps illuminate.
 - Check the rheostat.

METER AND GAUGE



Remarks
 (1) *1: LHD
 (2) *2: RHD

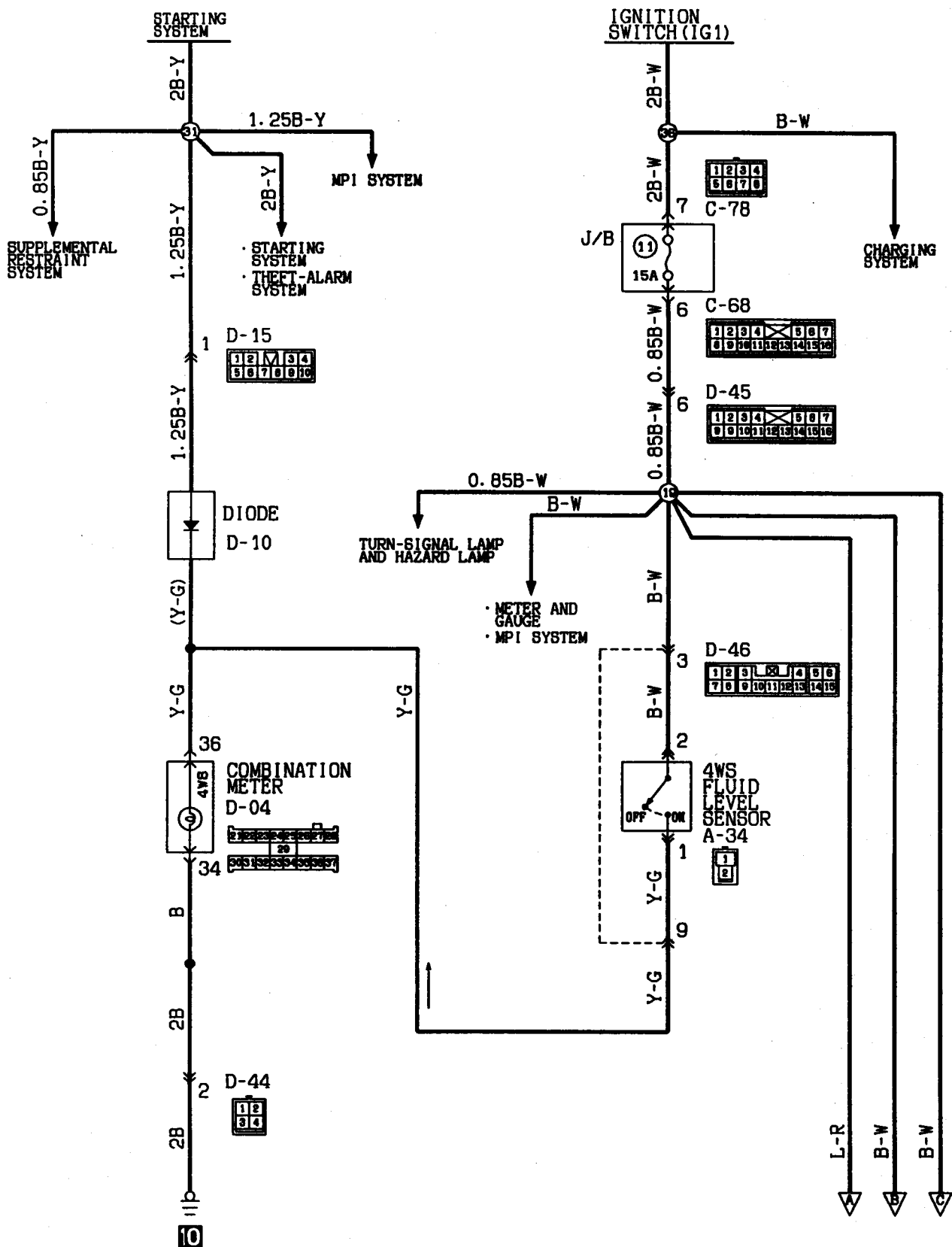
KX35-AC-R1005-EC



Remarks
 (1)*1: LHD
 (2)*2: RHD

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

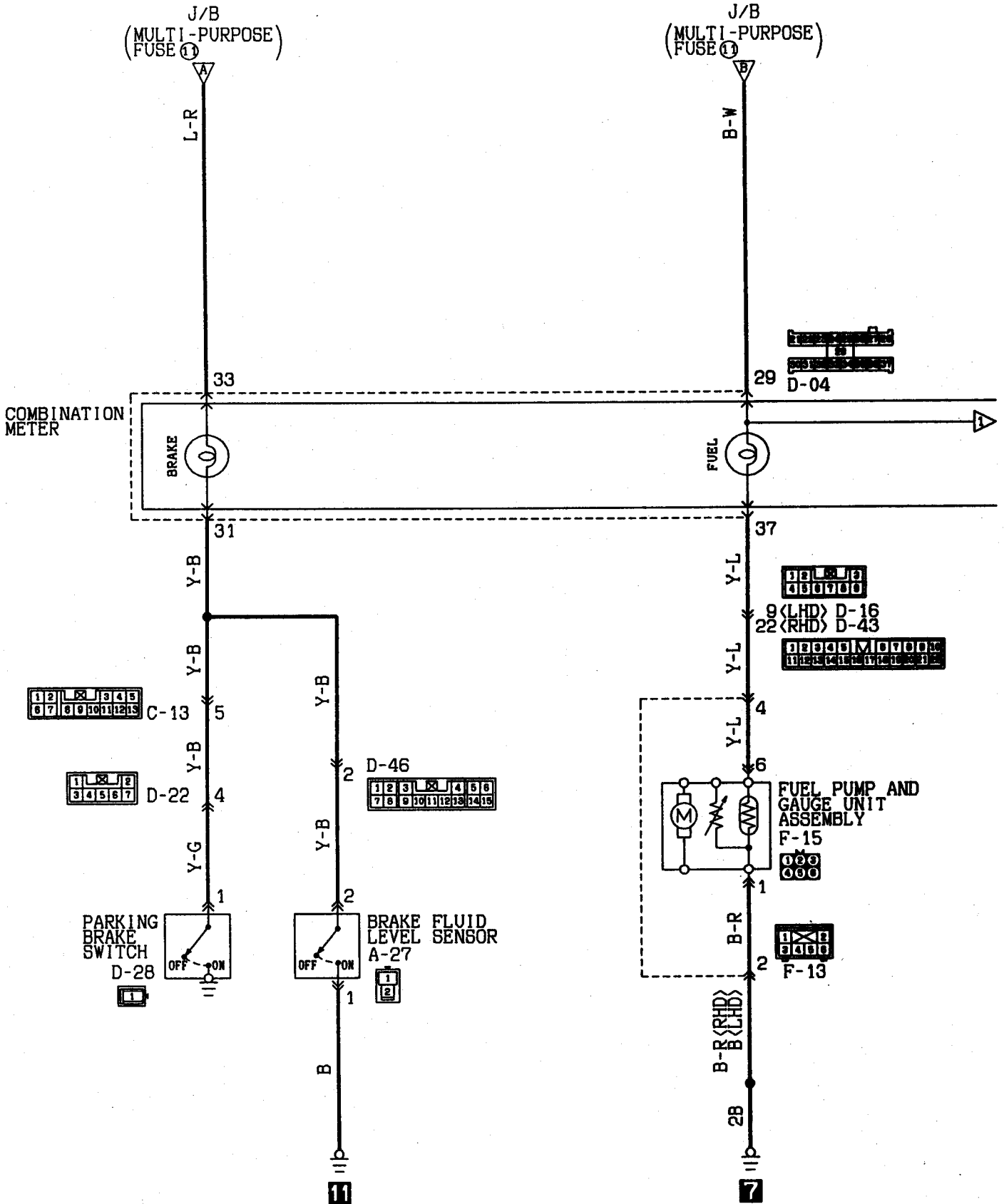
4WS FLUID LEVEL WARNING LAMP



Wire colour code
 B:Black LG:Light green G:Green L:Blue V:White Y:Yellow
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet BB:Sky blue

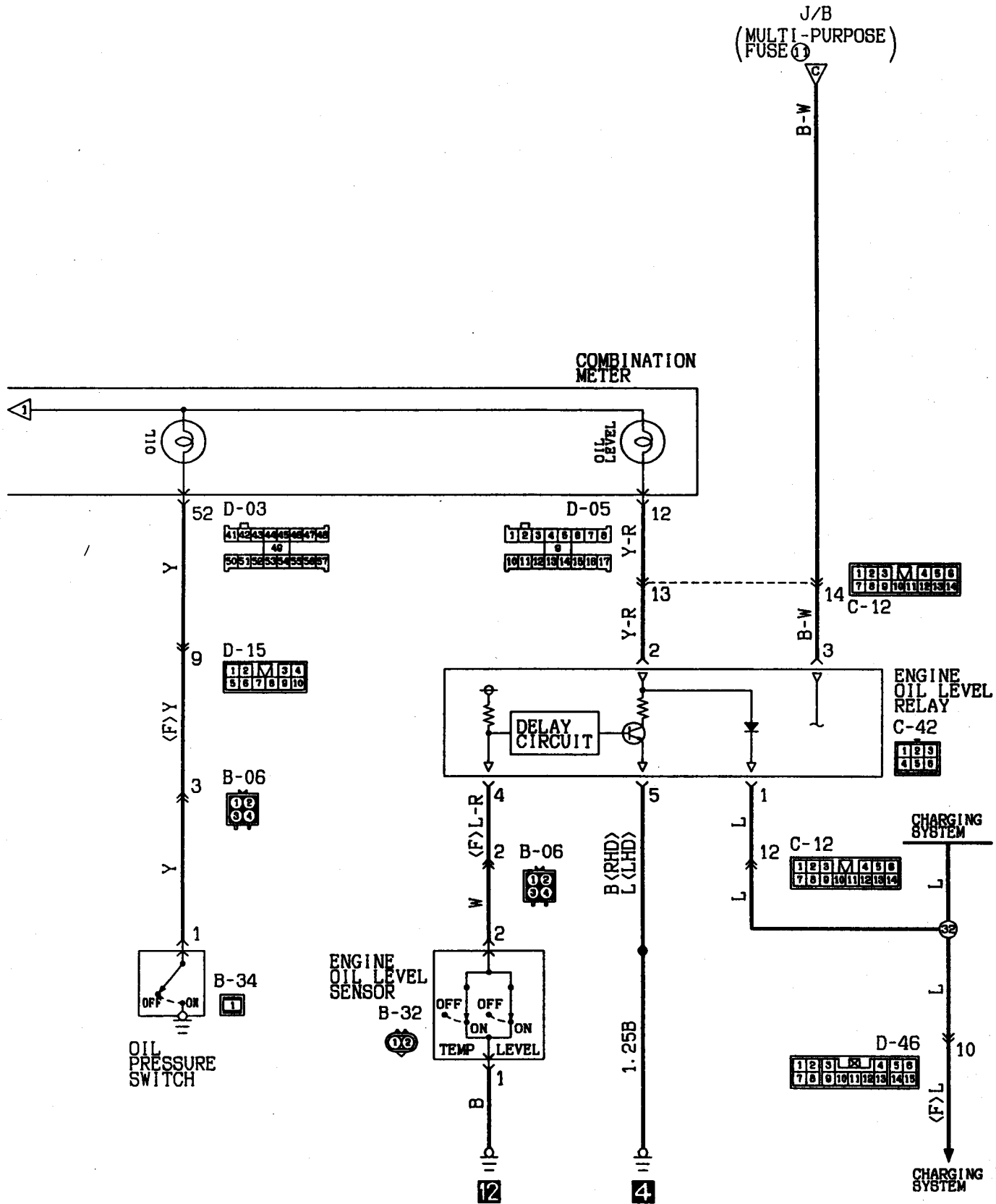
BRAKE WARNING LAMP

LOW FUEL WARNING LAMP



OIL PRESSURE WARNING LAMP

LOW ENGINE OIL LEVEL WARNING LAMP



4WS FLUID LEVEL WARNING LAMP (See P. 4B-96.)**BRAKE WARNING LAMP (See P. 4B-97.)****LOW FUEL WARNING LAMP (See P. 4B-97.)****OIL PRESSURE WARNING LAMP (See P. 4B-98.)****LOW ENGINE OIL LEVEL WARNING LAMP (See P. 4B-98.)****OPERATION****<4WS fluid level warning lamp>**

- When, with the ignition switch at the ON position, the amount of 4WS fluid becomes less than the specified amount, the 4WS fluid level sensor is switched ON and the warning lamp illuminates.

<Brake warning lamp>

- When the brake fluid level goes down below a predetermined level or parking brake lever is pulled, with the ignition switch in the ON position, the brake fluid level sensor is activated or the parking brake switch is turned ON, causing the brake warning lamp to light up.

<Low fuel warning lamp>

- When the fuel level goes down causing the level sensor to be exposed, with the ignition switch in the ON position, the resistance of level sensor becomes small. When this resistance goes down below the predetermined level, the low fuel warning lamp lights up to warn the driver that the amount of fuel still available for use is small.

<Oil pressure warning lamp>

- When the lubrication system fails after engine starting, resulting in the oil pressure failing to build up, the oil pressure switch turns ON causing the oil pressure warning lamp to light up.

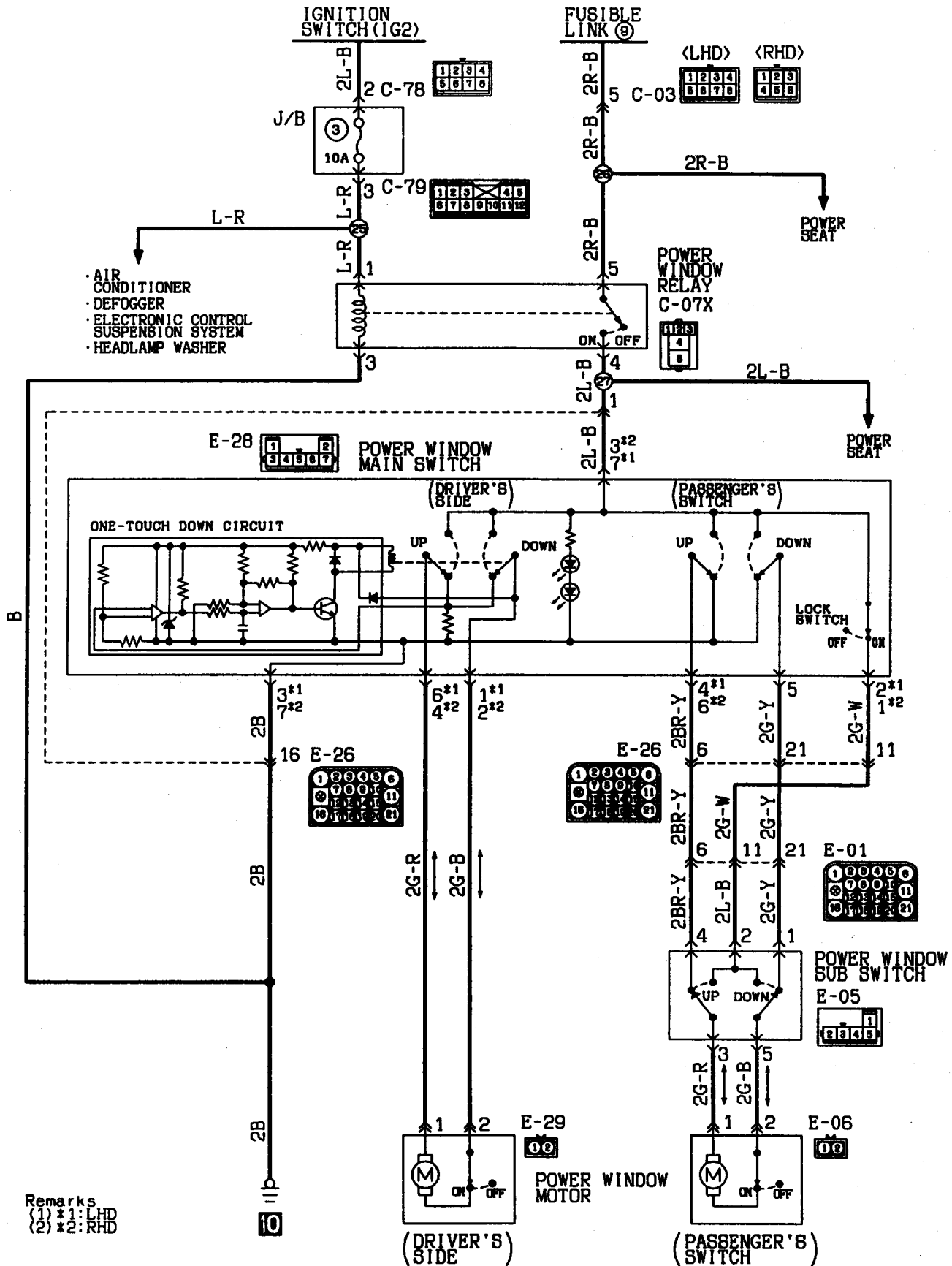
<Low engine oil warning lamp>

- When the ignition switch is turned to the "ON" position (in the state where the engine is stopped), electric current will flow to terminal "L" of the alternator through the multi-purpose fuse No. ①, low engine oil warning lamp and engine oil level relay and the low engine oil warning lamp will also light up.
- When the engine starts, the charging voltage will be applied to the terminal "L" of the alternator. Therefore, the low engine oil warning lamp will go out.
- When the engine oil temperature rises to approx. 55°C, the engine oil level sensor (TEMP) provided in the oil pan will be turned off.
- When the engine oil amount in the oil pan drops below the set level in this state, the engine oil level sensor (LEVEL) will be turned off to apply the voltage to the delay circuit.
- If the "OFF" state continues for approx. 20 seconds or more, the power transistor will be turned on to light the low engine oil warning lamp to indicated a shortage of engine oil.

Remark

The delay circuit is provided to prevent the low engine oil warning lamp from going on even if the engine oil level sensor is temporarily turned off due to cornering or other running conditions of the vehicle.

POWER WINDOW



Remarks
 (1) *1: LHD
 (2) *2: RHD

Wire colour code
 B:Black LG:Light green G:Green L:Blue W:White Y:Yellow SB:5kv blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

POWER WINDOW (See P. 4B-100.)**OPERATION**

- When the power window (main or sub) switch is depressed (UP or DOWN) with the ignition switch in the ON position, current flows through sub-fusible link No. ⑨ to the power window motor. This energizes the power window motor causing the door window glass to open or close.
- When the DOWN side the power window main switch (driver's seat side switch) is depressed all the way, it is locked in the depressed position and the power window motor is operated until the door glass is fully opened.
- When the power window lock switch is placed in the LOCK (OFF) position, operating a switch other than the ones for the driver's and front passenger's side window (main) does not cause the power window motor to be operated.
- The power window motor is provide with a circuit breaker that protects the motor from damage caused by overcurrent.

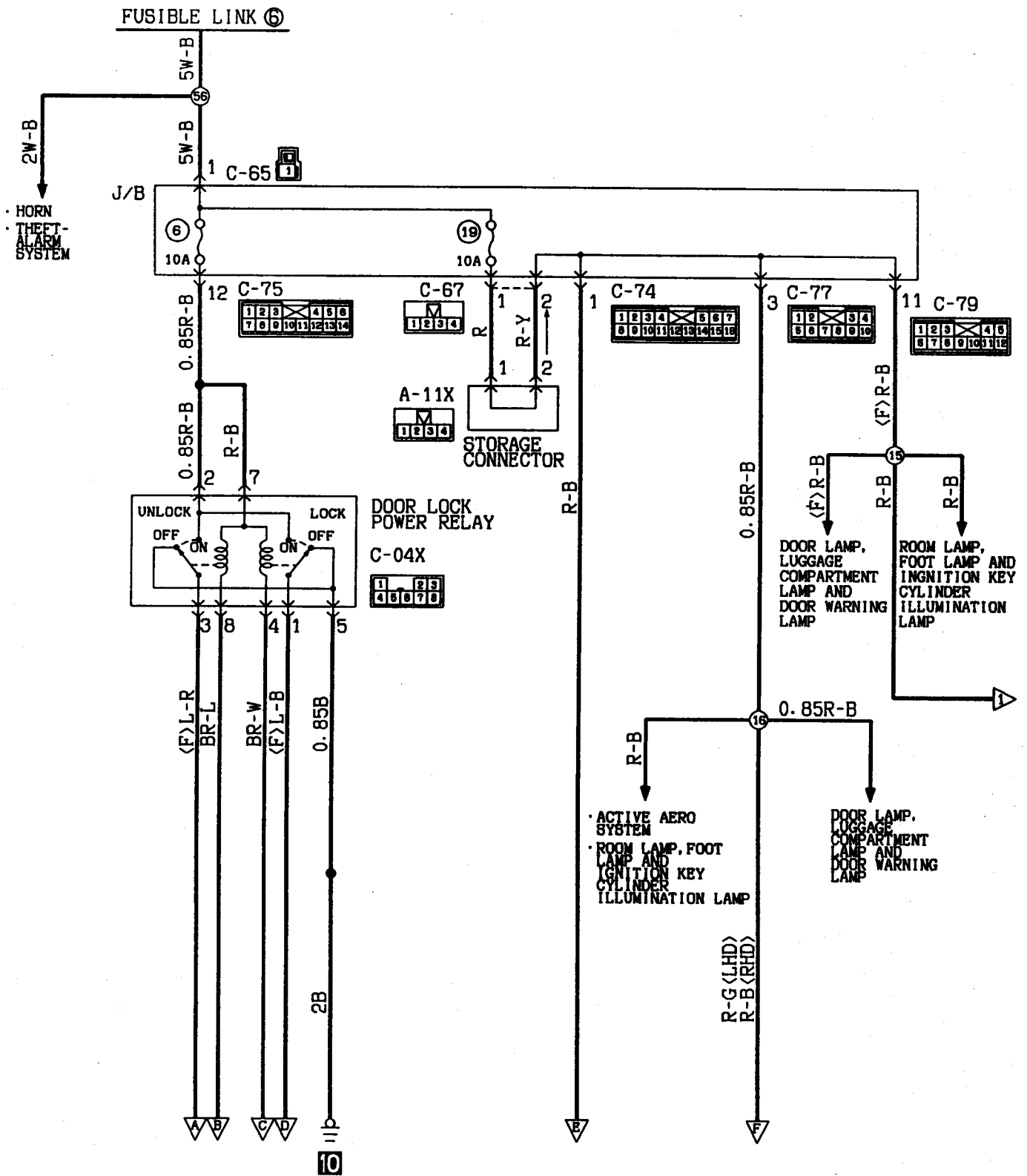
Reference: Circuit breaker characteristics Restricts the motor at room temperature [20 to 25°C]; Opens following 4-to-40sec. initial energization time;

Resets within 60 seconds if left open thereafter.

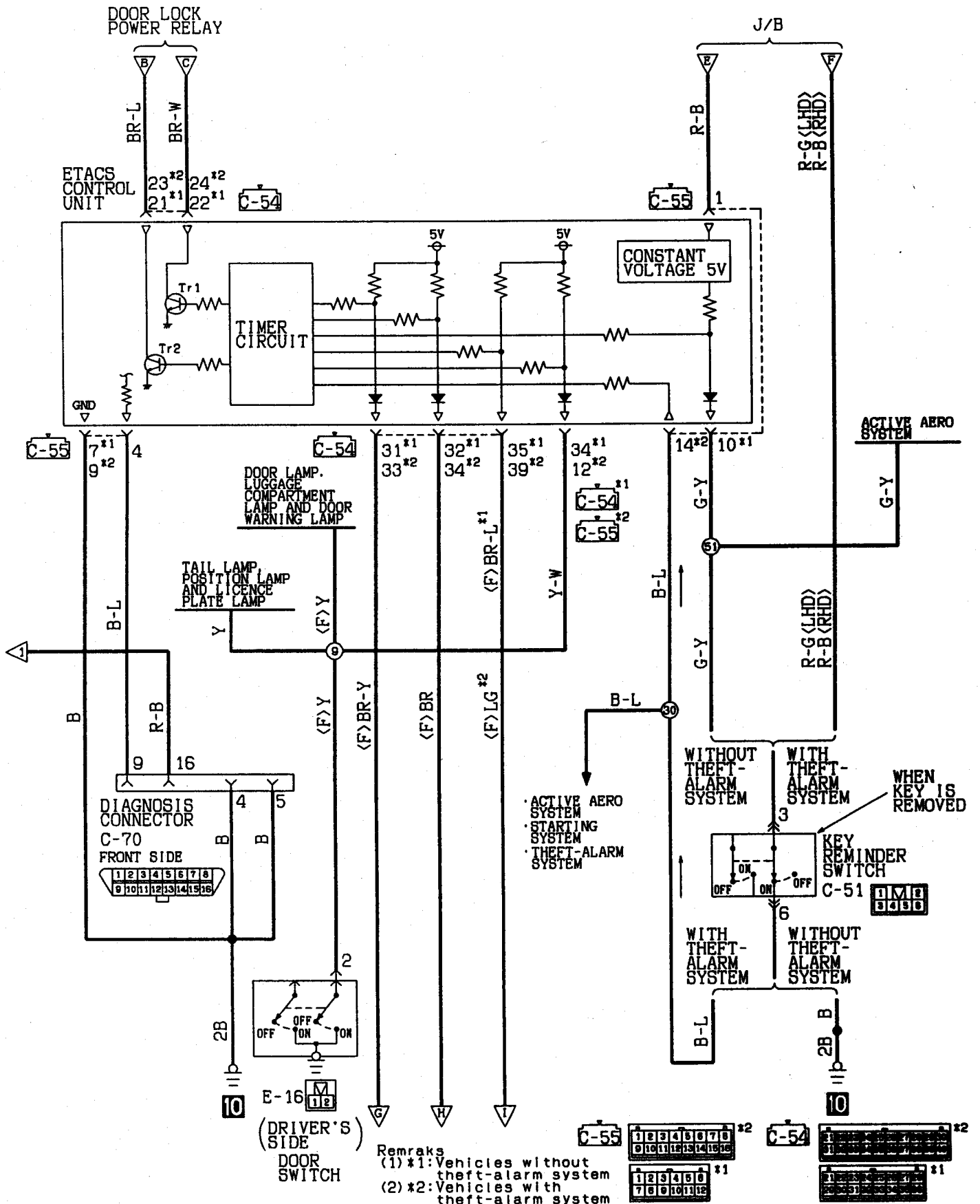
TROUBLESHOOTING HINTS

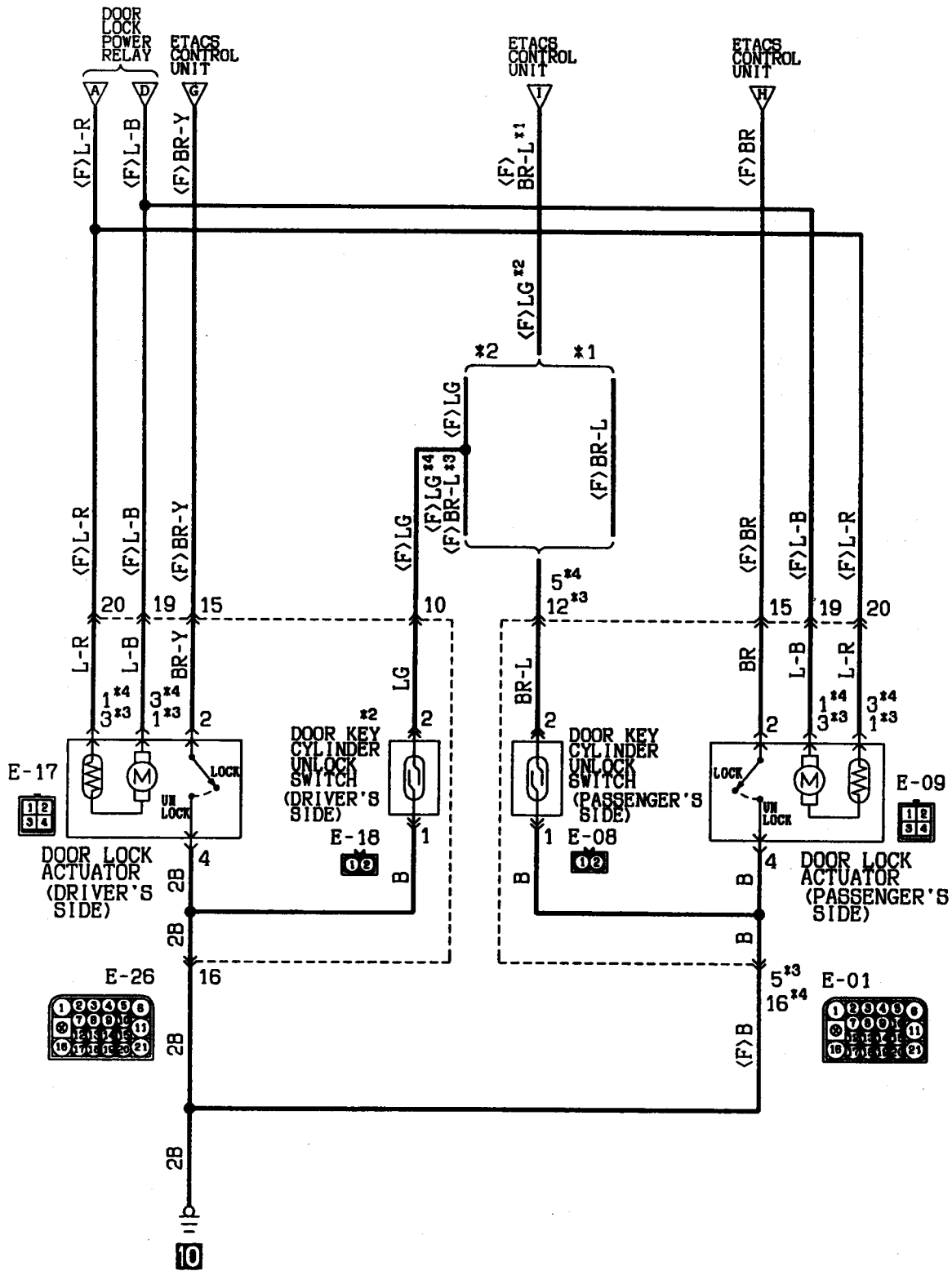
1. All door glasses cannot be opened or closed.
 - Check the fusible link No. ⑨.
 - Check the multi-purpose fuse No. ③.
 - Check the power window relay.
 - Check the power window main switch.
2. Any door glass cannot be opened or closed.
 - (1) Neither power window main nor sub switch is activated.
 - Check the power window main switch.
 - Check the defective power window motor.
 - (2) Either power window main or sub switch is inoperative.
 - Check the inoperative power window switch.
3. One-touch switch function is not operational.
 - Replace the power window main switch.

CENTRAL DOOR LOCKING SYSTEM



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





Remarks
 (1)*1: Vehicles without theft-alarm system
 (2)*2: Vehicles with theft-alarm system
 (3)*3: LHD
 (4)*4: RHD

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

CENTRAL DOOR LOCKING SYSTEM (See P. 4B-102.)**OPERATION**

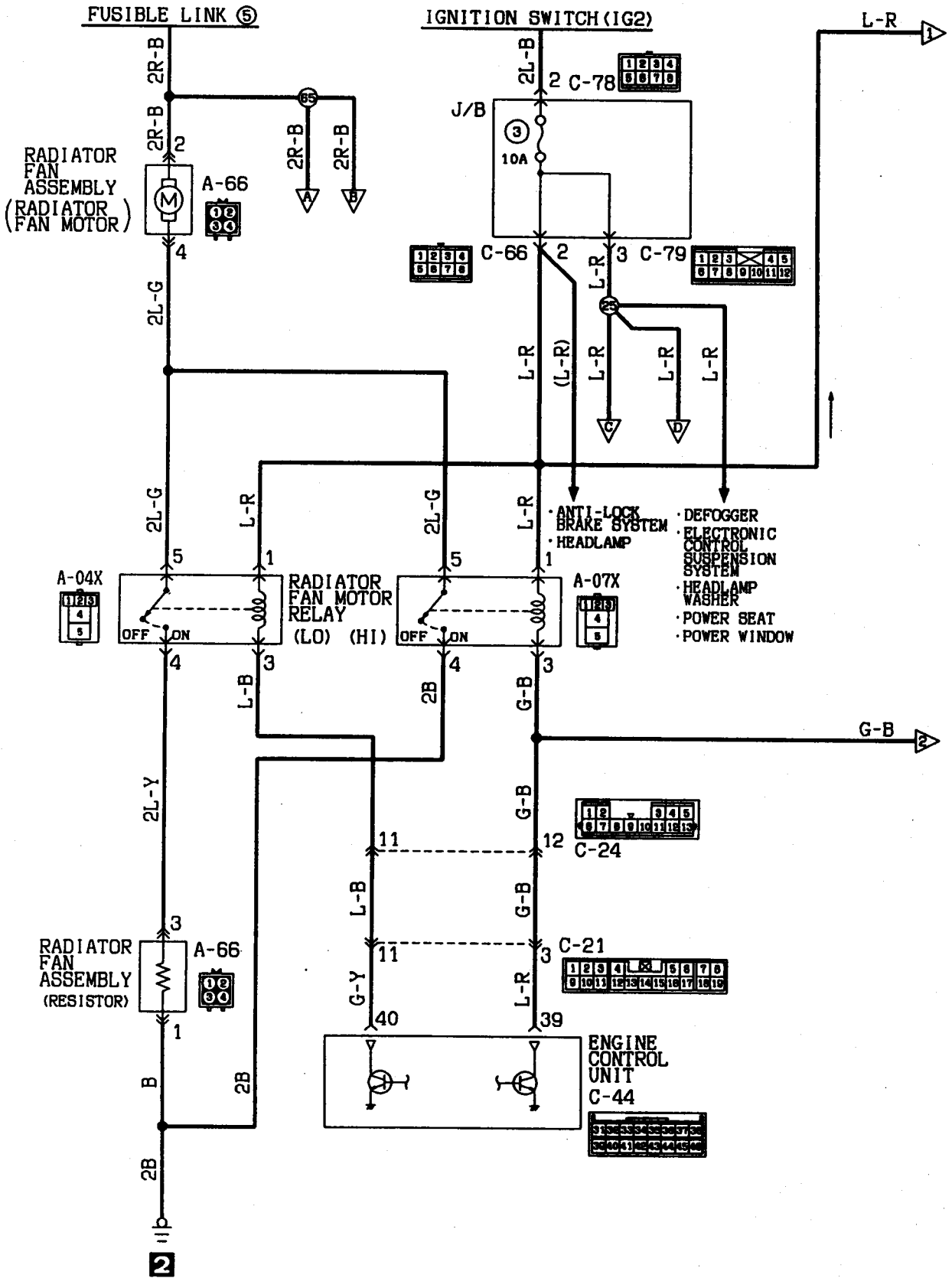
- When the driver's side inside lock knob is set to the "LOCK" (or "UNLOCK") position, the switch inside the driver's side door lock actuator turns OFF (or ON), and the timer function of the ETACS control unit causes transistor Tr1 (or Tr2) to turn ON for 0.5 seconds. This causes the "LOCK" (or "UNLOCK") side of the door lock relay to turn ON, thereby operating the passenger's side door lock actuator.
- When the passenger's side door is locked (or unlocked) by key operation, the door key cylinder unlock switch turns ON and the switch inside the passenger's side door lock actuator turns OFF (or ON), and the timer function of the ETACS control unit causes transistor Tr1 (or Tr2) to turn ON for 0.5 seconds. This causes the "LOCK" (or "UNLOCK") side of the door lock relay to turn ON, thereby operating the driver's side door lock actuator. The driver's side door lock actuator cannot be operated by operating the passenger's side inside lock knob.
- If the driver's side door is opened and the inside lock knob is set to the "LOCK" position while the key is left inserted in the ignition switch, the timer function of the ETACS unit causes transistor Tr2 to turn ON. This causes the "UNLOCK" side of the door lock relay to turn ON, thereby unlocking all doors.

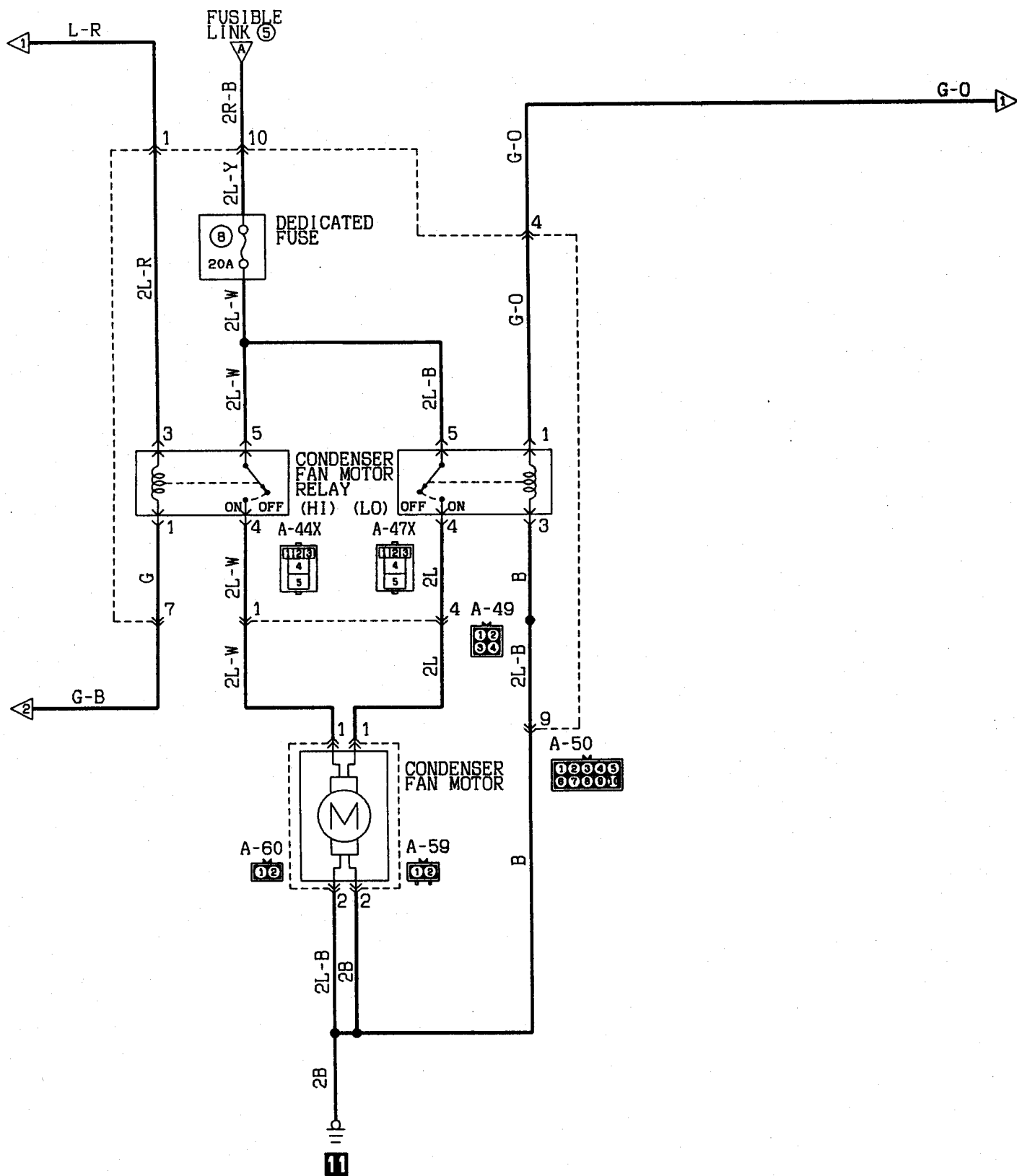
TROUBLESHOOTING HINTS

Phenomenon	Inspection method
One of the door lock actuators fails to operate	<ul style="list-style-type: none"> • Check the door actuator which fails to operate.
The passenger's side door doesn't lock or unlock even if the driver's side door lock knob is operated.	<ul style="list-style-type: none"> • Check the door lock actuator switch input signal. • Check the door lock actuator switch. • Check the door lock power relay.
The driver's side door doesn't lock or unlock even if the passenger's side door lock knob is operated.	<ul style="list-style-type: none"> • Check the door key cylinder unlock switch input signal. • Check the door key cylinder unlock switch. • Check the door lock actuator switch input signal. • Check the door lock actuator switch. • Check the door lock power relay.
No unlock operation can be made by pressing door lock knob after fulfilment of following conditions. <ul style="list-style-type: none"> • Insertion of key in ignition switch (key reminder switch OFF) • Opening of driver's side door (door switch ON) 	<ul style="list-style-type: none"> • Check the key reminder switch input signal. • Check the key reminder switch. • Check the driver's side door switch input signal. • Check the driver's side door switch.
Neither the central door locking function nor the key reminder function operates.	<ul style="list-style-type: none"> • Check the door lock actuator switch input signal. • Check the door lock actuator switch. • Check the door lock power relay.

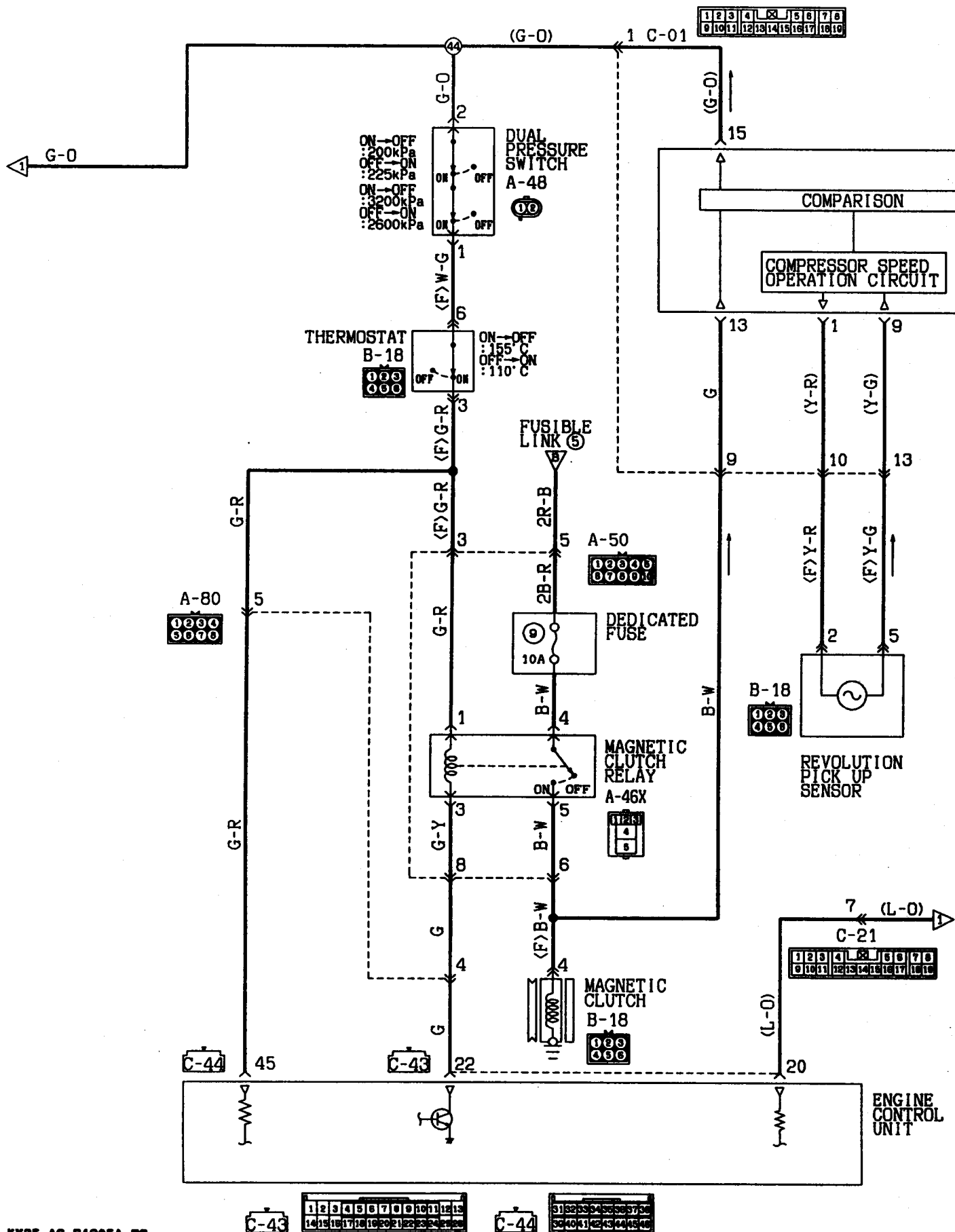
AIR CONDITIONER

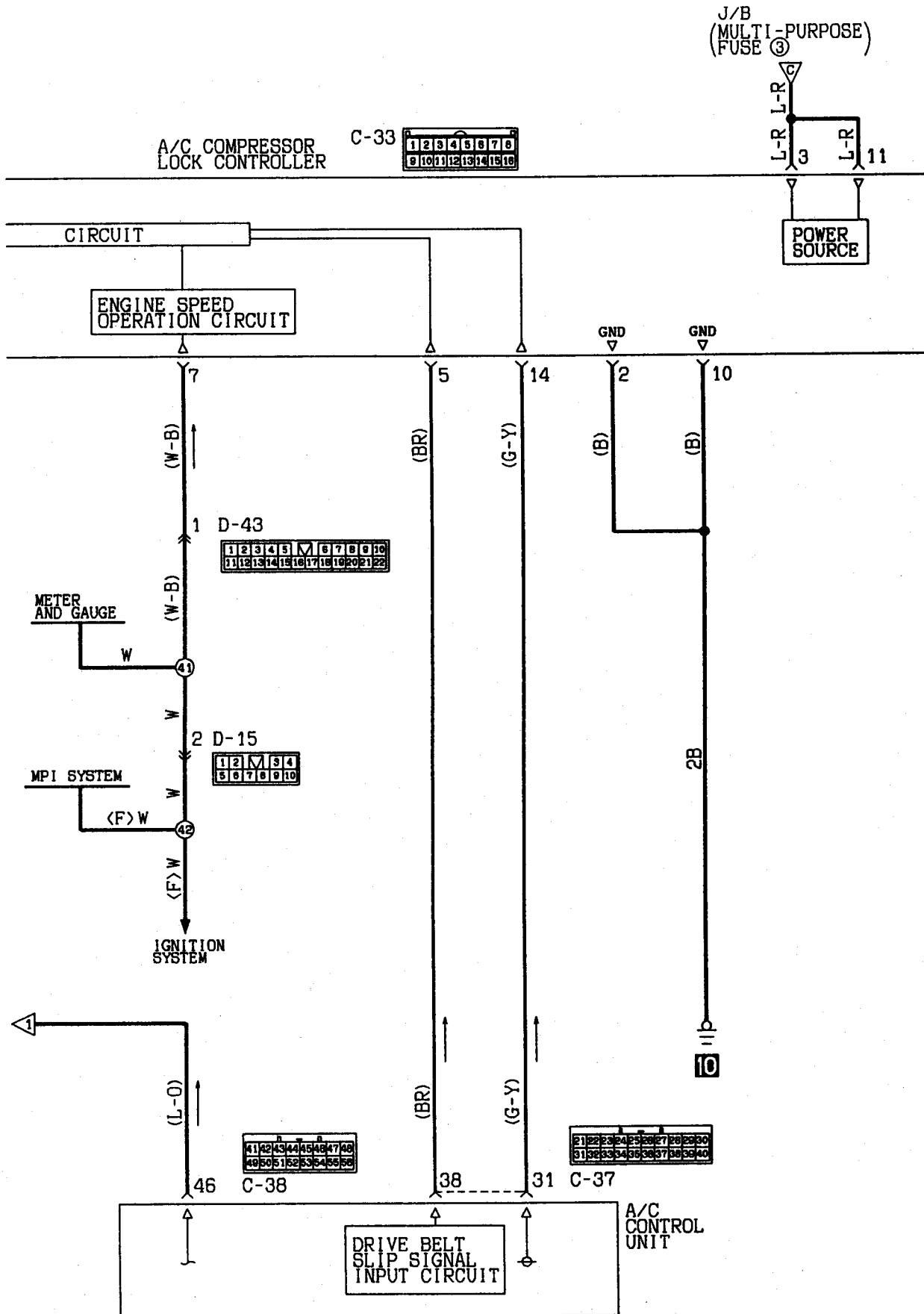
L. H. drive vehicles



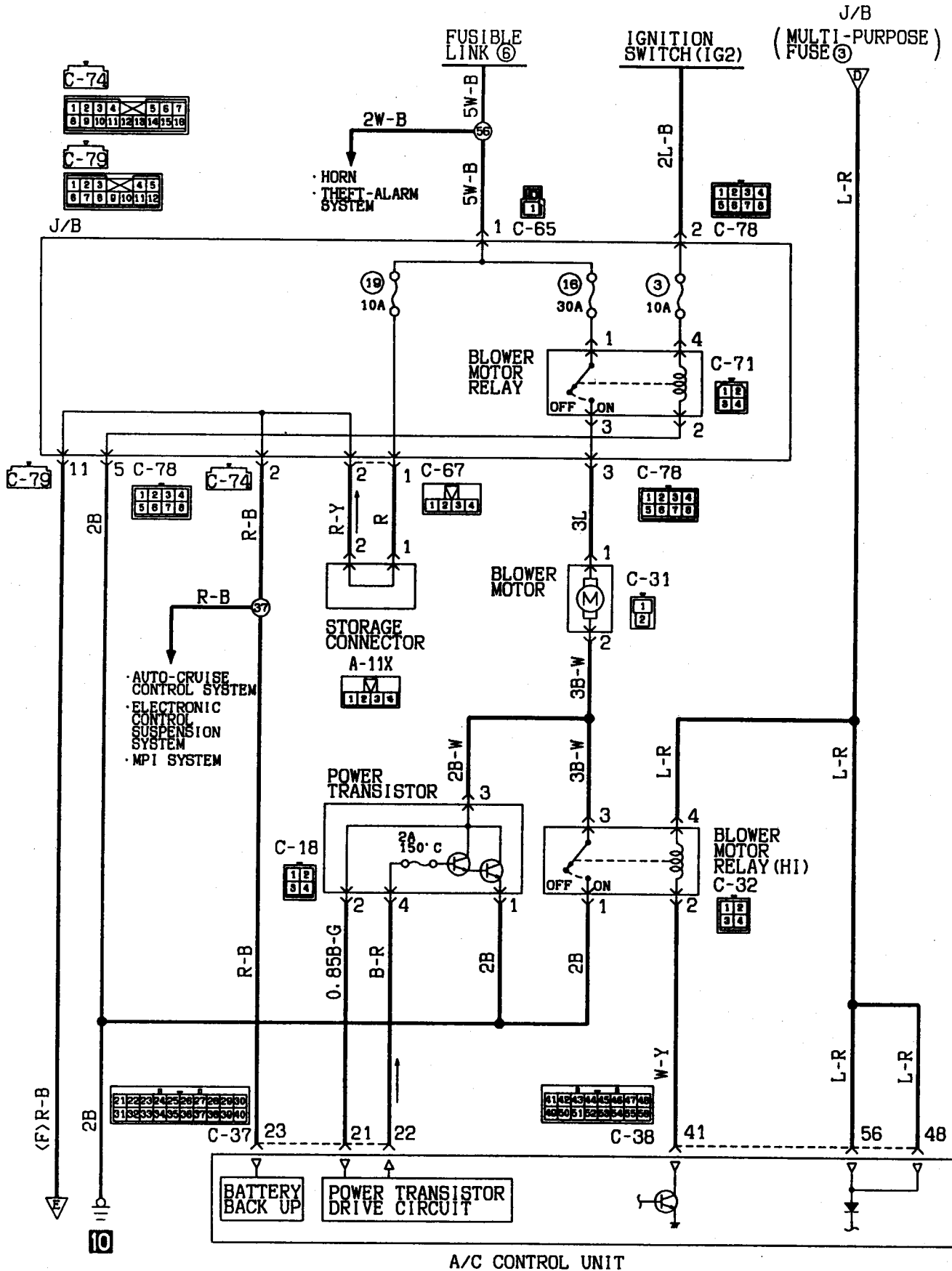


Wire colour code
 B:Black LG:Light green G:Green L:Blue W:White Y:Yellow BB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

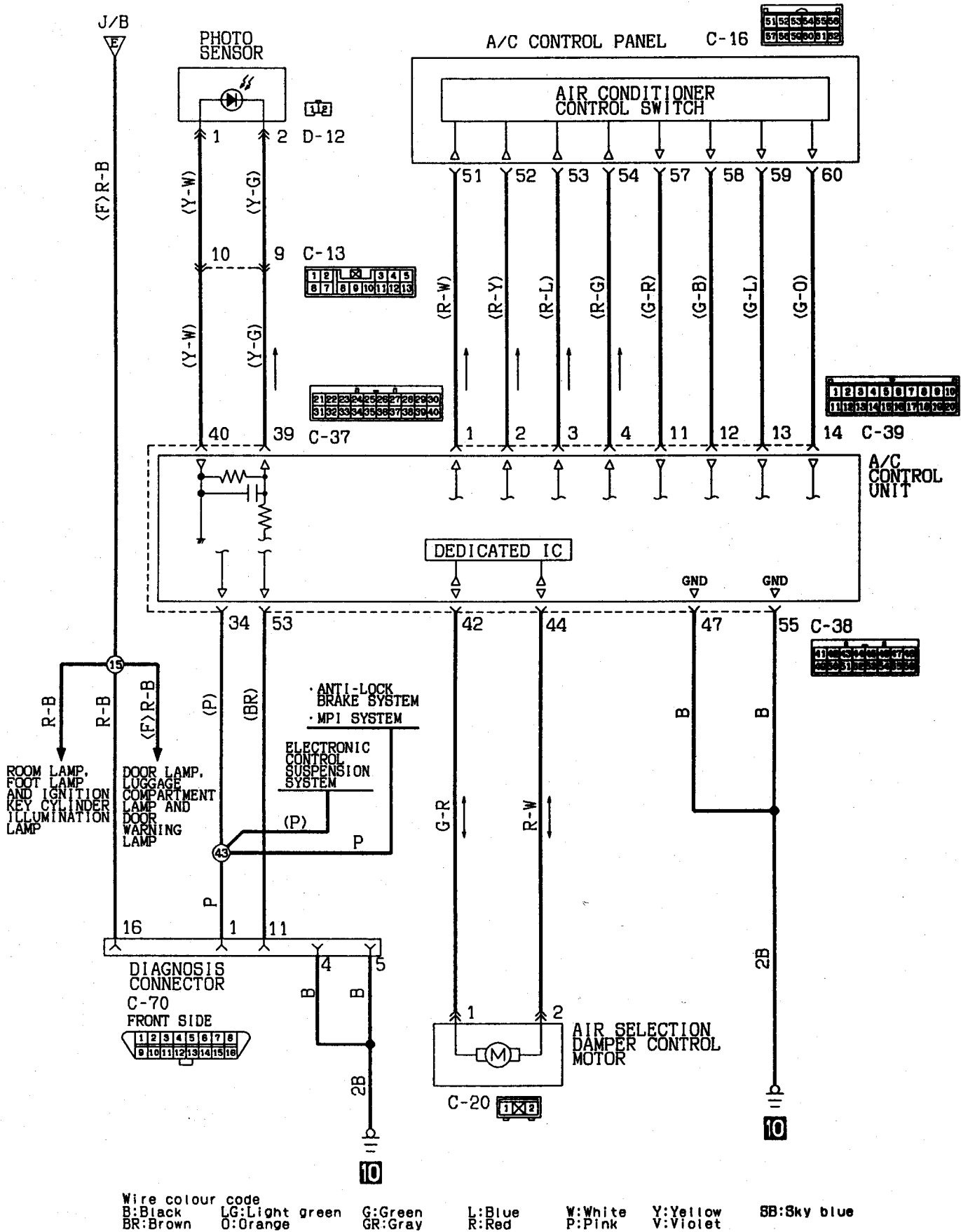


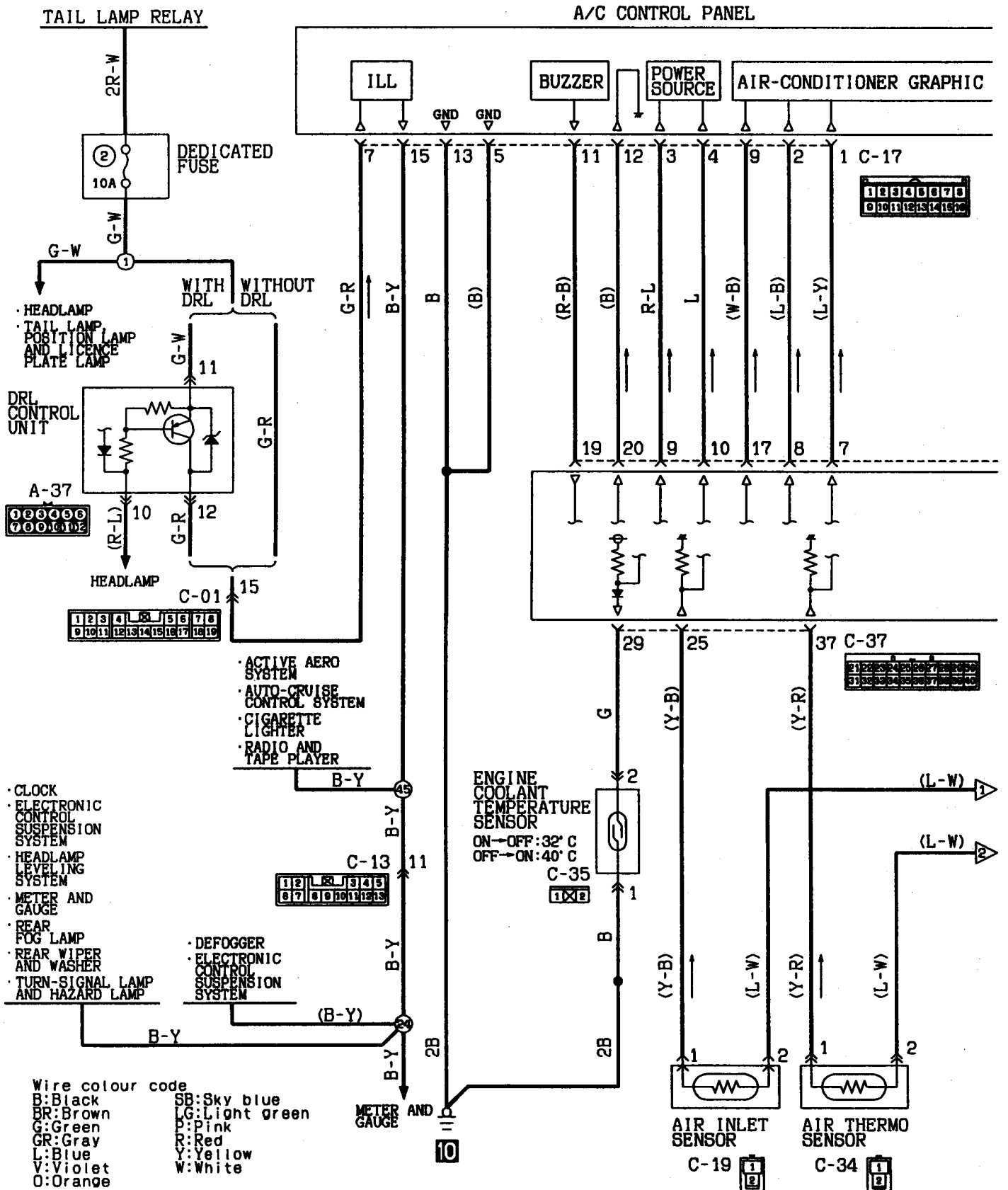


Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

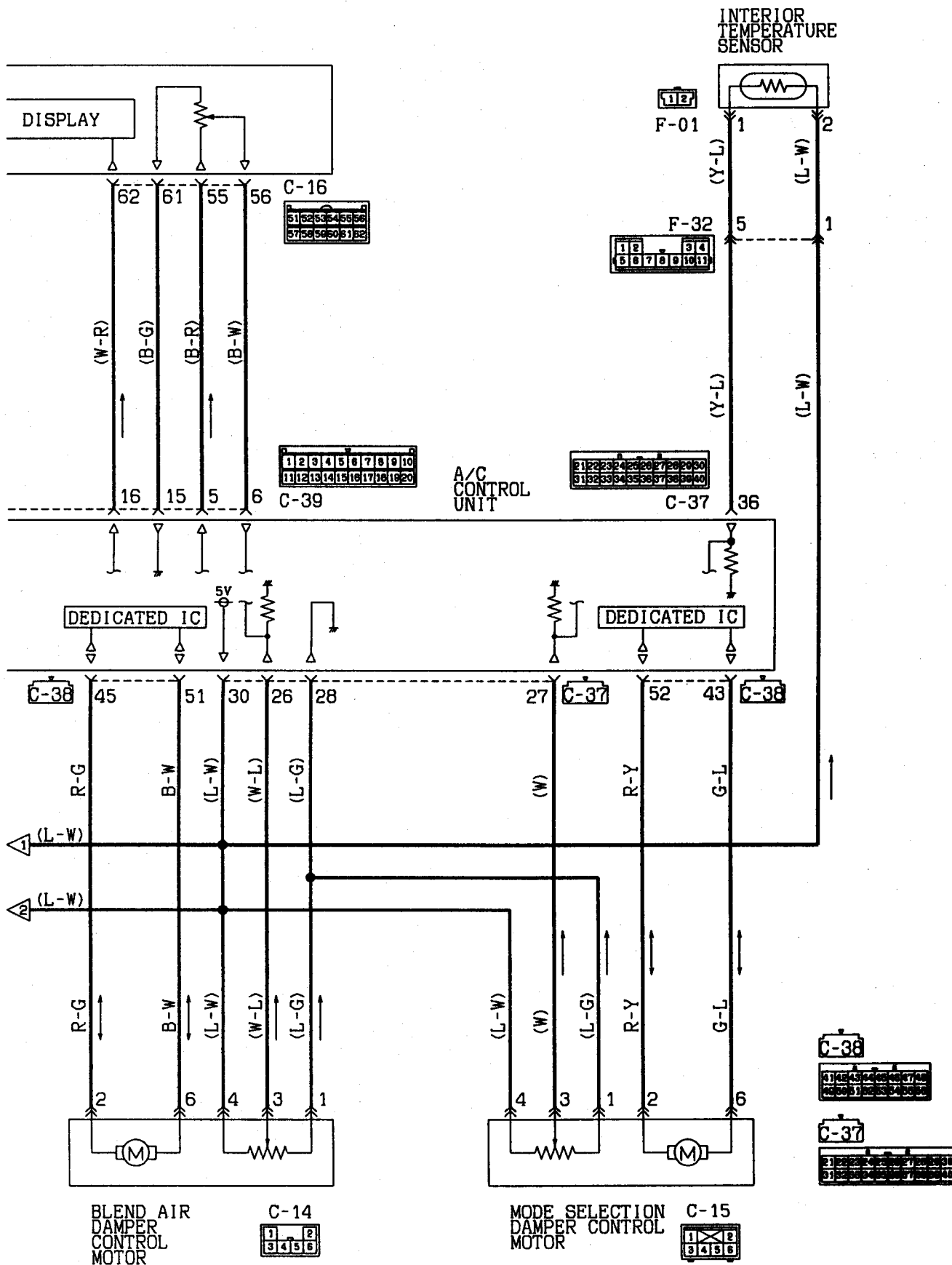


A/C CONTROL UNIT

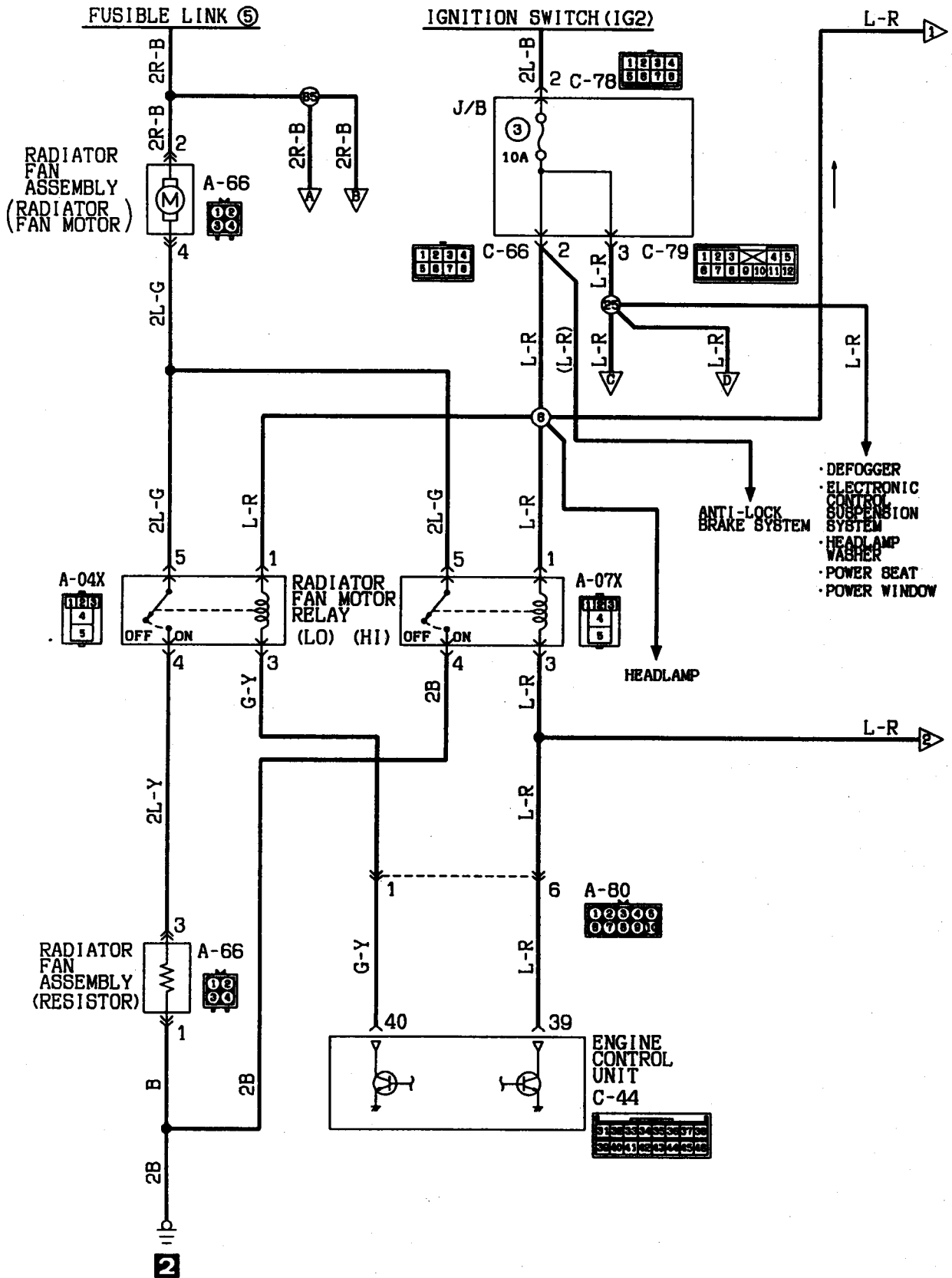


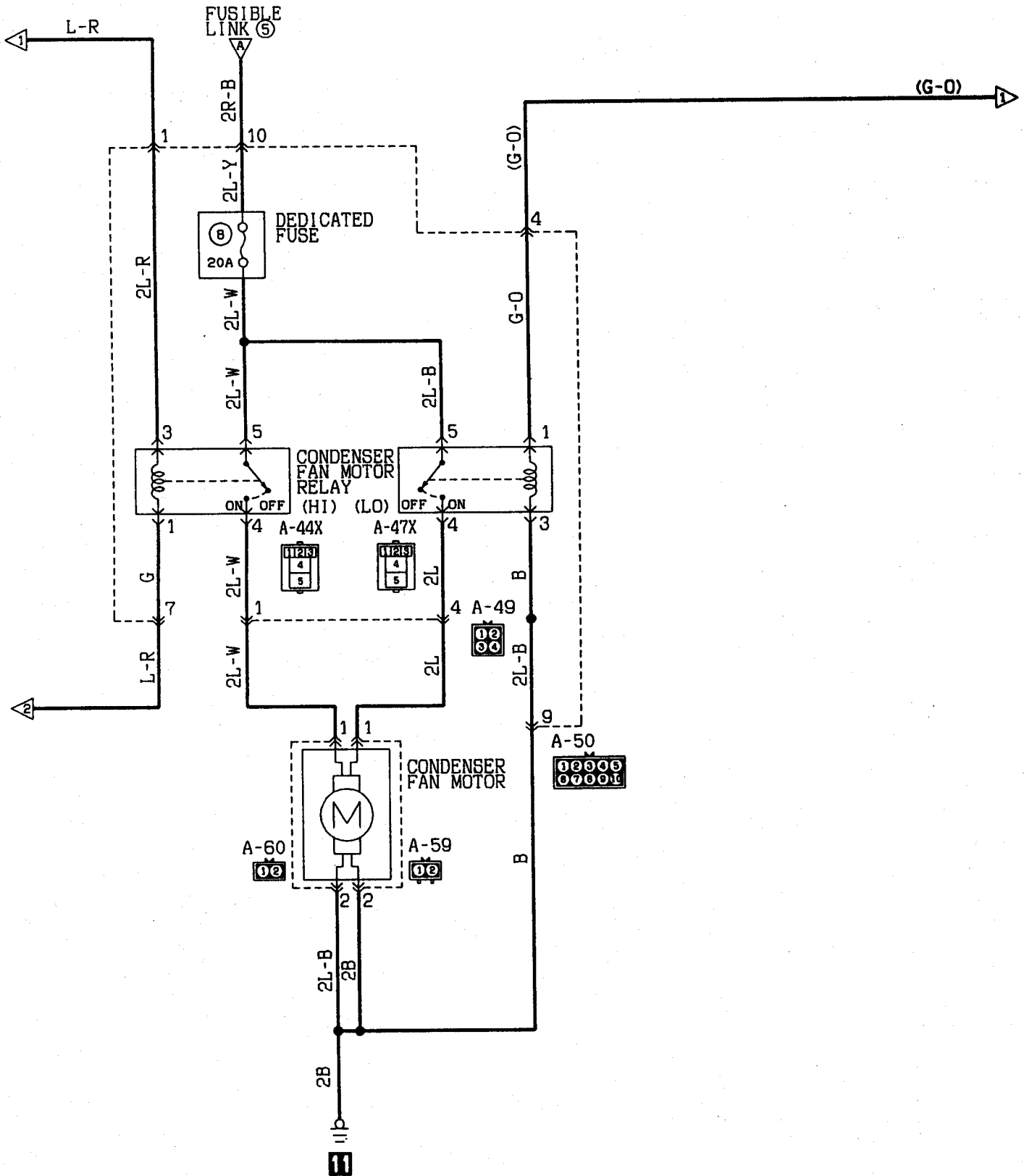


KX35-AC-R1205C-EC

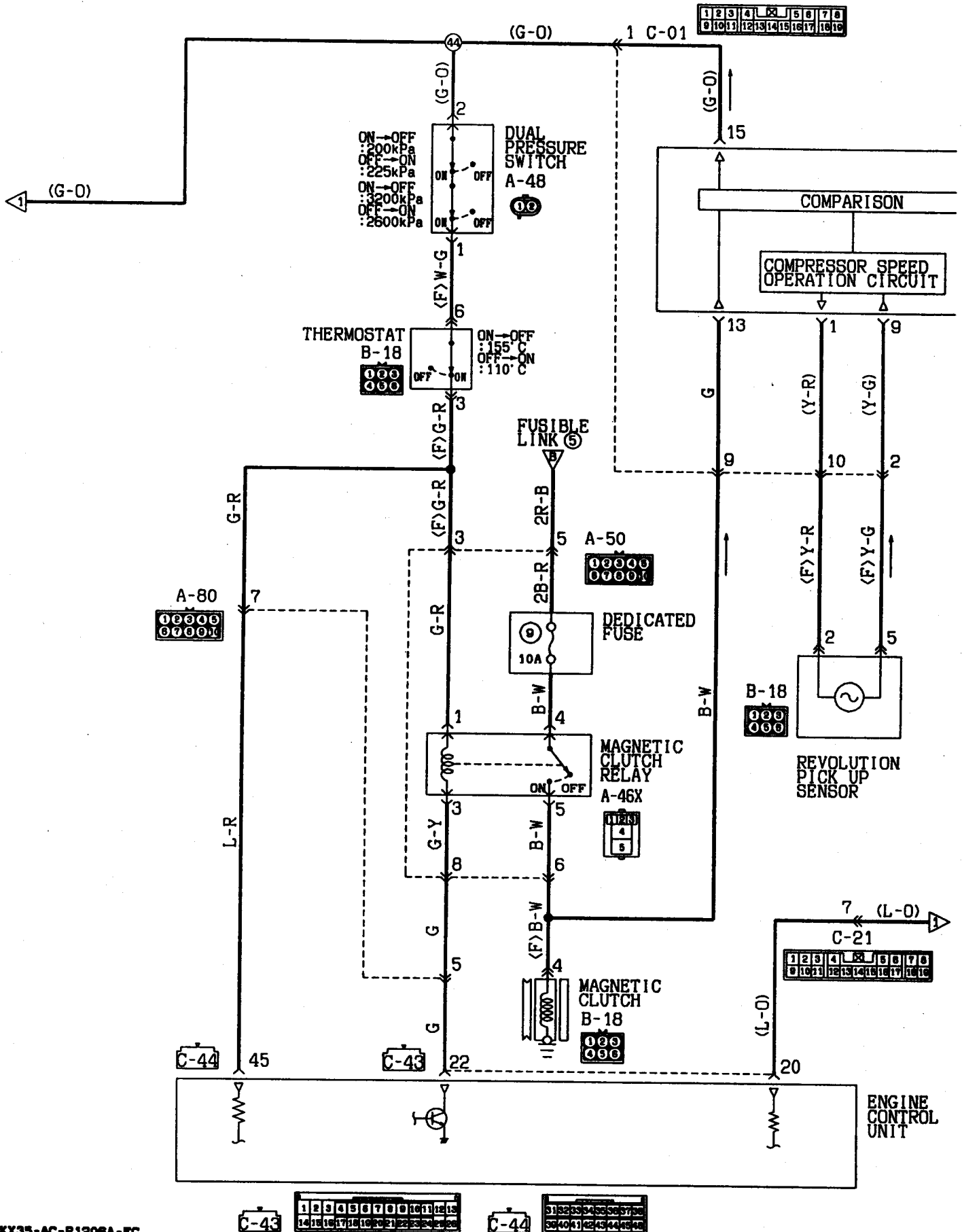


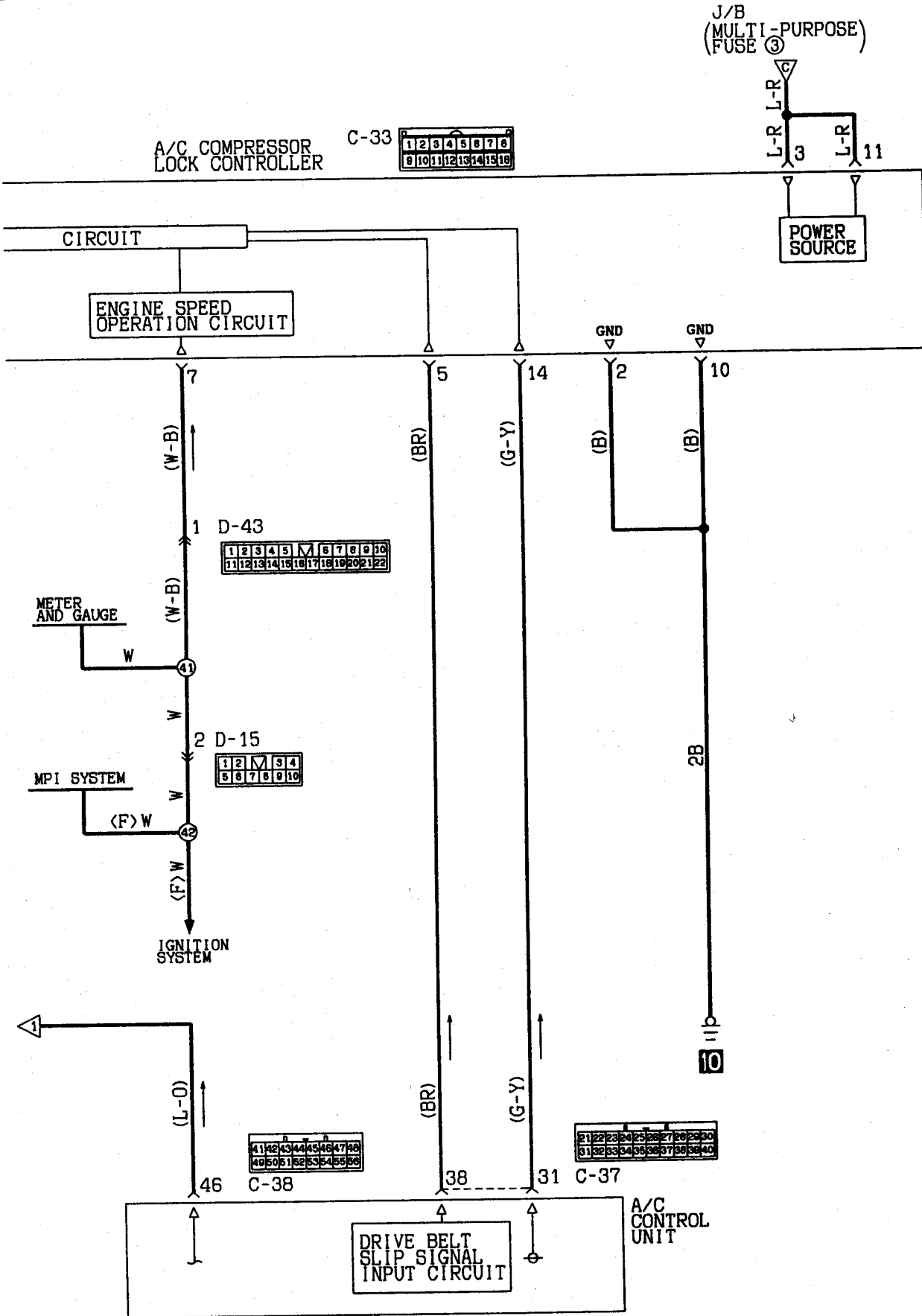
AIR CONDITIONER
R. H. drive vehicles



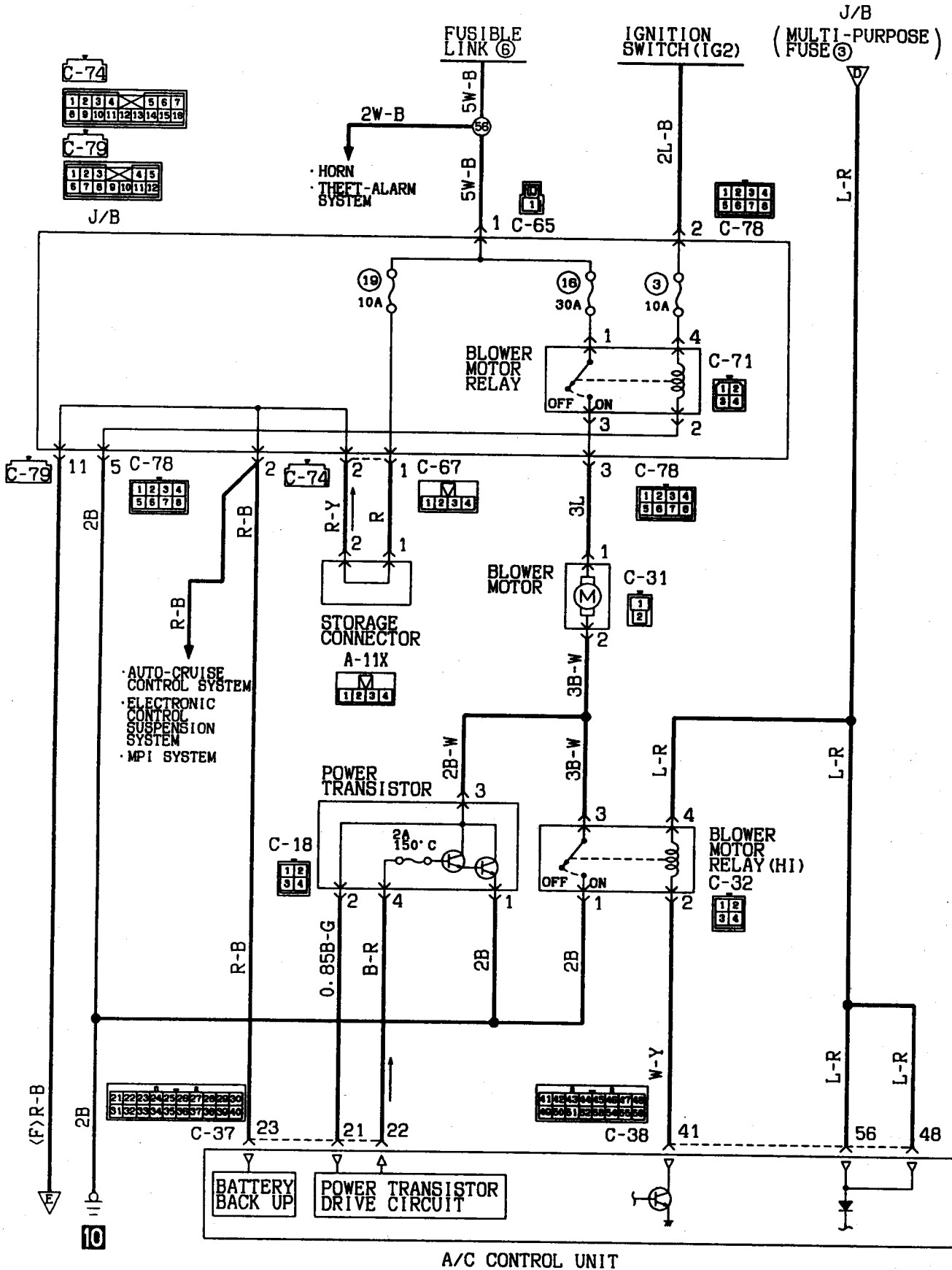


Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

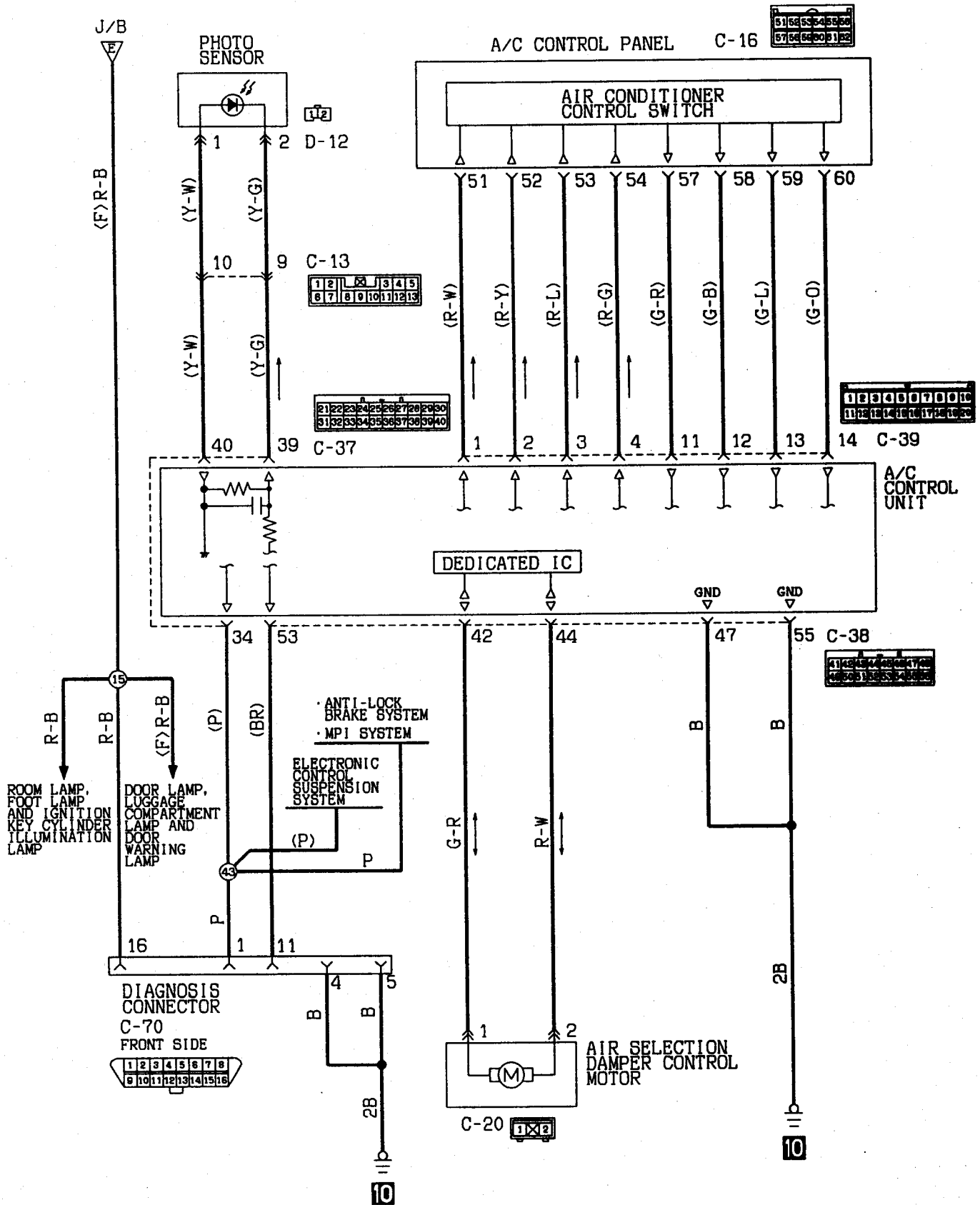




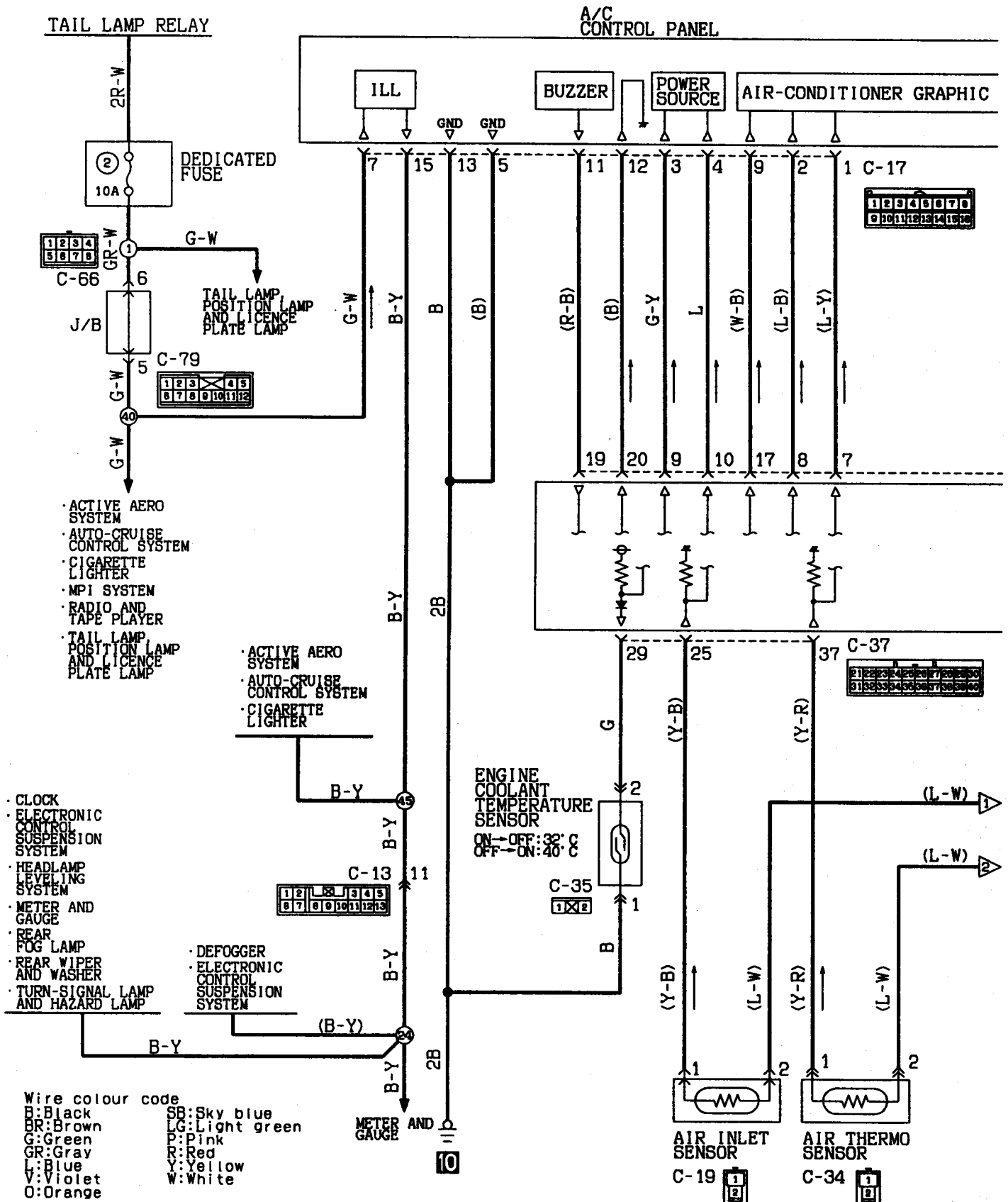
Wire colour code
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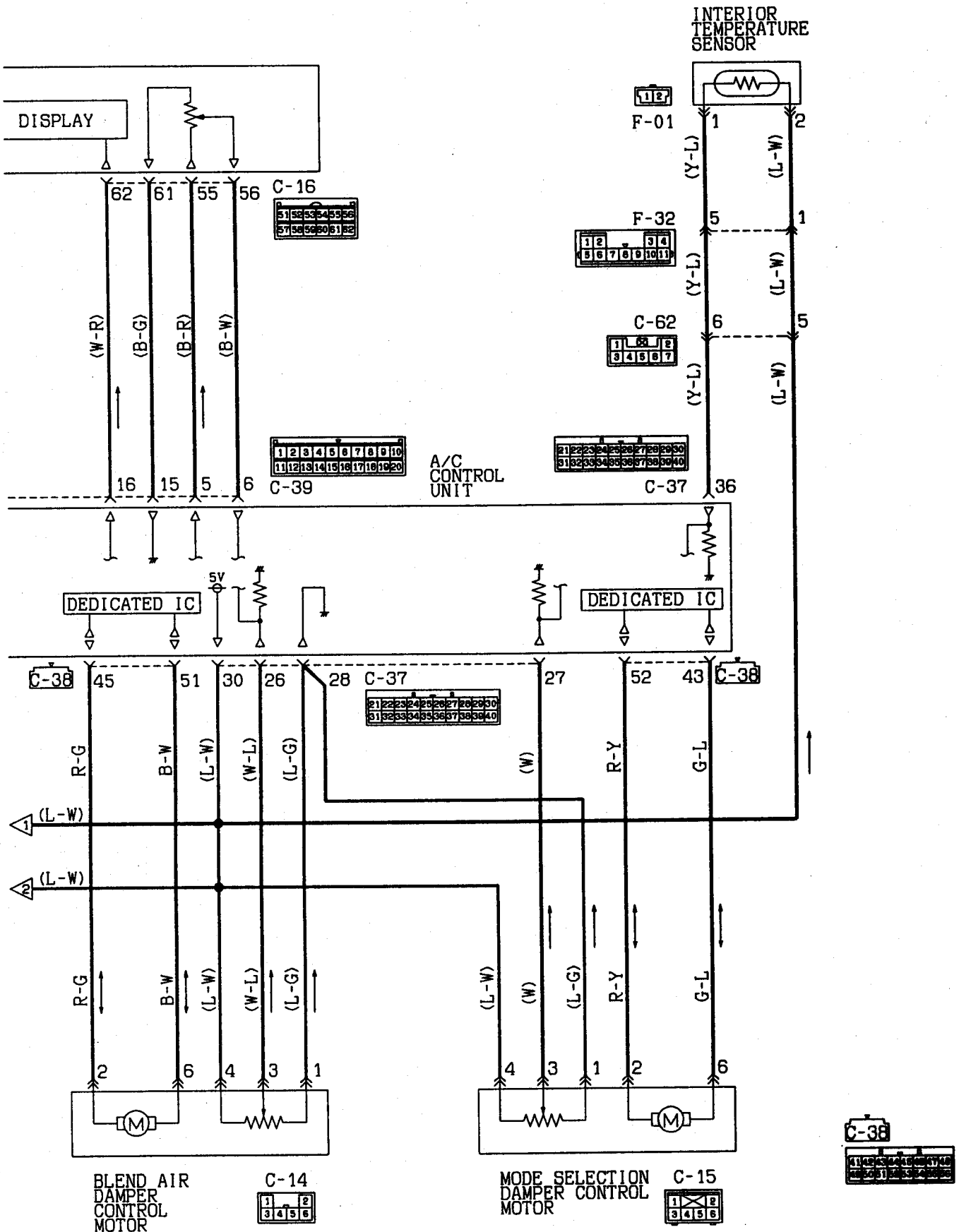


A/C CONTROL UNIT

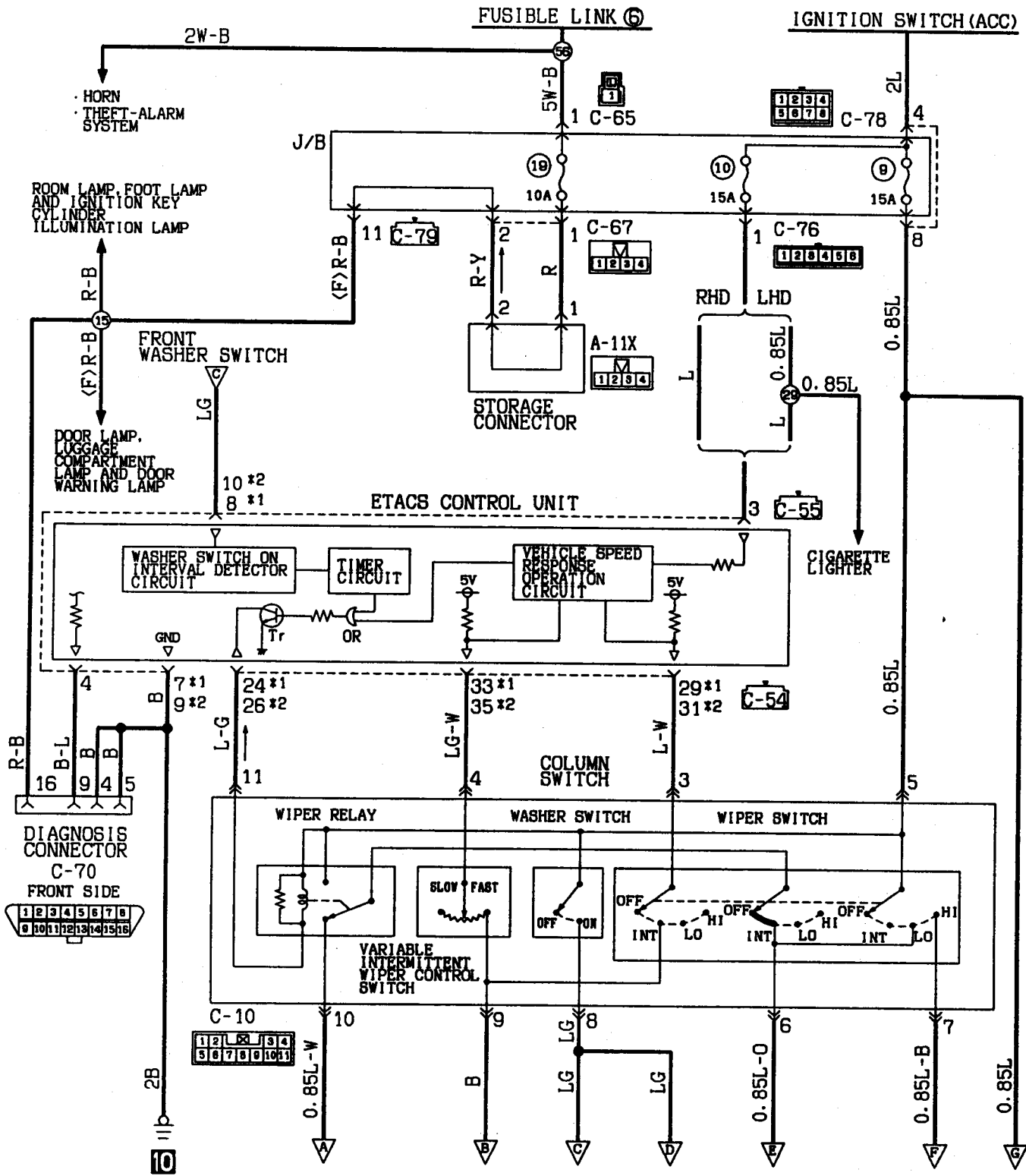


Wire colour code
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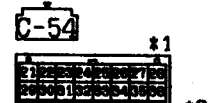
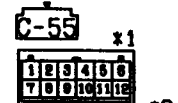
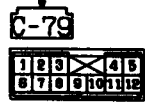


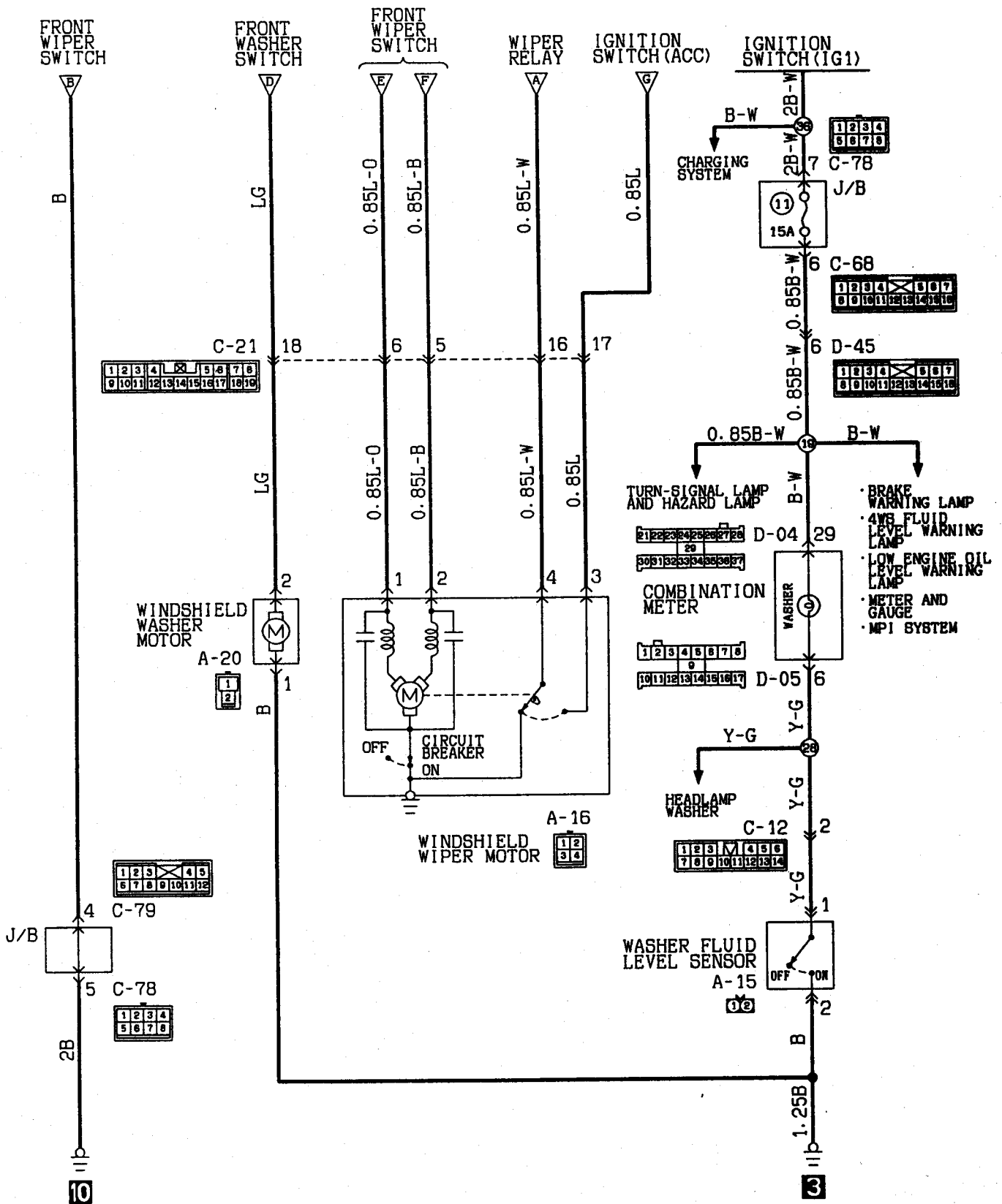


WINDSHIELD WIPER AND WASHER



Remarks
 (1) *:1: Vehicles without theft-alarm system.
 (2) *:2: Vehicles with theft-alarm system.





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

WINDSHIELD WIPER AND WASHER (See P. 4B-122.)**OPERATION****<Low-speed (and high-speed) wiper>**

- When the wiper switch is placed in the LO position with the ignition switch in the ACC or ON position, wipers operate continuously at low speed.
- Placing the wiper switch in the HI position causes the wipers to operate at high speed.

<Intermittent wiper>

- If the wiper switch is turned to the INT position when the ignition switch is in the ON or ACC position, the voltage value from the intermittent variable volume switch is input to the intermittent time detection circuit.
- The intermittent time detection circuit outputs an H signal at the intermittent time according to the set value of the intermittent variable volume switch and, via OR, turns the Tr on and off to operate the wiper.

<Auto wiper stop>

- When the wiper switch is placed in the OFF position, the cam contacts of wiper motor causes current to flow through the auto wiper stop circuit, allowing the wiper blades to cycle before they reach to the stop positions.

<Mist wiper>

- If the washer switch is on for 0.6 second or less when the ignition switch is at ON or ACC with the wiper switch turned off, the washer liquid will not be poured but the transistor will be turned on to operate the wipers one time.

<Wiper linked with washer>

- If the washer switch is on for 0.6 second or more when the ignition switch is at ON or ACC with the wiper switch turned off, the washer liquid will be poured and the transistor will be turned on 0.6 second later to operate the wipers two or three times.

<Low washer fluid warning lamp>

- If the windshield washer fluid is below the specified level when the ignition switch is in the "ON" position, the washer fluid level sensor will be turned on to light the low washer fluid warning lamp.

TROUBLESHOOTING HINTS

Phenomenon		Inspecting method
Wipers do not operate continuously.	Washer does not operate.	• Check the multi-purpose fuse No. ⑨
	Washer operates.	• Check the wiper motor. • Check the column switch.
Low-speed (or high-speed) wiper operation only is inoperative.		• Check the column switch.
Wipers do not operate intermittently. (They operate continuously.)		• Check the wiper switch "INT" input signal. • Check the column switch.
Wipers do not stop.		• Check the wiper switch "INT" input signal. • Check the column switch. • Check the wiper motor.
The intermittent time will not vary even if the variable intermittent wiper control switch is operated.		• Check the variable intermittent wiper control switch input signal. • Check the column switch.
Even if the washer switch is on for 0.6 second or more, the washer will not operate.	The wipers linked with the washer operate.	• Check the washer motor. • Check the washer nozzle and washer tube.
	The wipers linked with the washer do not operate.	• Check the washer switch input signal. • Check the washer switch.

REAR WIPER AND WASHER (See P. 4B-126, 127.)**OPERATION****<Low-speed wiper>**

- When the rear wiper switch is placed in the ON position with the ignition switch in the ACC or ON position, wipers operate continuously at low speed.

<Auto wiper stop>

- When the rear wiper switch is placed in the OFF position, the cam contacts of wiper motor causes current to flow through the auto wiper stop circuit, allowing the wiper blades to cycle before they reach to the stop positions.

<Intermittent wiper>

- When the rear wiper switch is placed in the INT position with the ignition switch in ACC or ON position, the rear intermittent wiper relay is energized causing the rear intermittent wiper relay contacts to close and open repeatedly.
- When the contacts are closed, the wiper motor is energized.
- When the rear wiper motor is energized, the rear intermittent wiper relay contacts open; however, the cam contacts keep the rear wiper motor energized until the wiper blades return to their stop position.

TROUBLESHOOTING HINTS

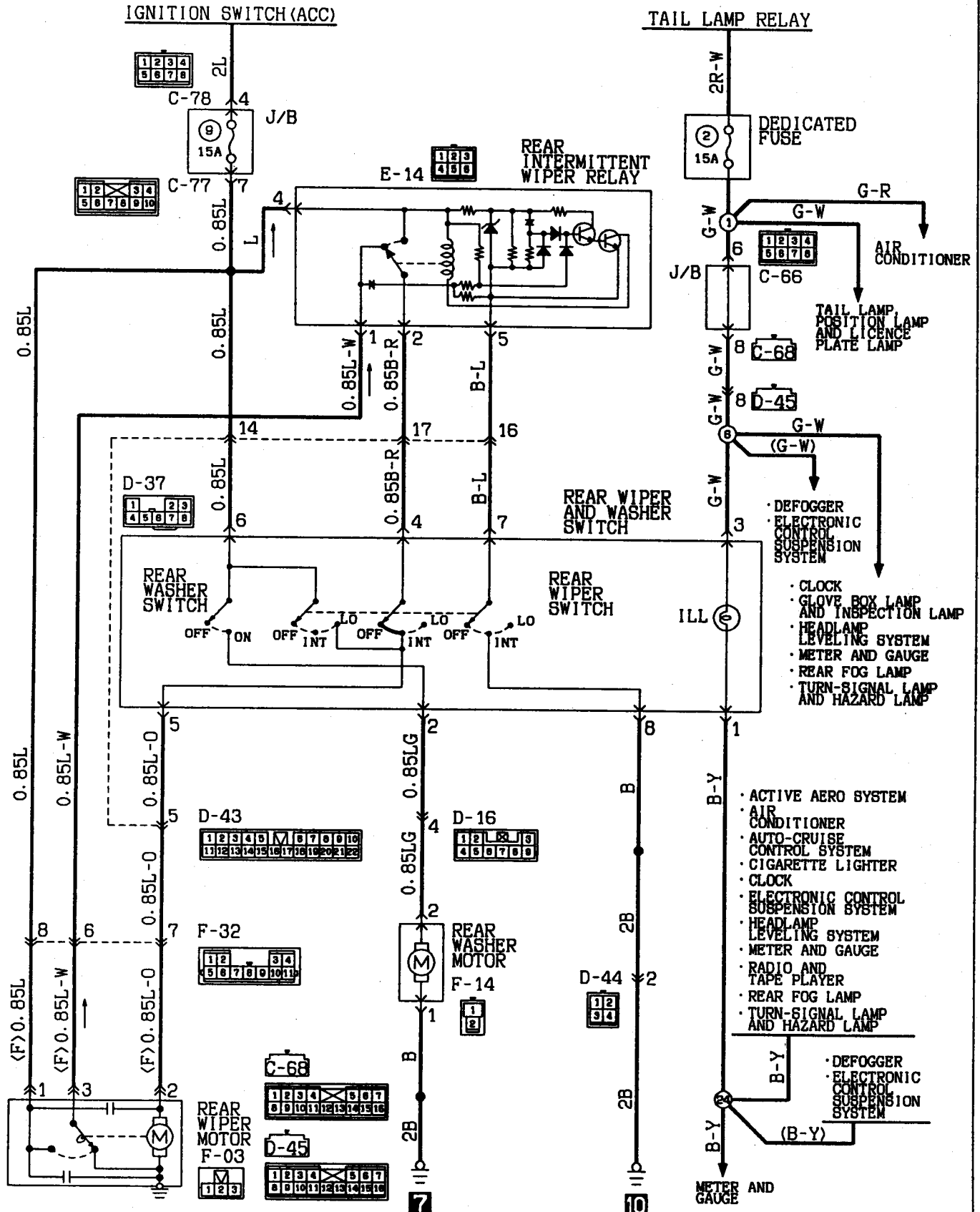
1. Wipers do not operate.
 - (1) Washer is not operative, either.
 - Check multi-purpose fuse No. ⑨.
 - Check earth.
2. Low-speed wiper operation only is inoperative.
 - Check wiper switch.
3. Wipers do not stop.
 - Check wiper motor.
 - Check rear intermittent wiper relay.
 - Check rear wiper switch.
4. Intermittent wiper operation is inoperative.
 - Check terminal voltage of the rear intermittent wiper relay energized.

Terminal No.	Voltage	Check
2	0V	Rear intermittent wiper relay or rear wiper switch
	System voltage	Rear intermittent wiper relay
	0 ↔ System voltage (alternating)	— (Normal)

5. Washer is inoperative.
 - Check washer motor.
 - Check washer switch.

REAR WIPER AND WASHER

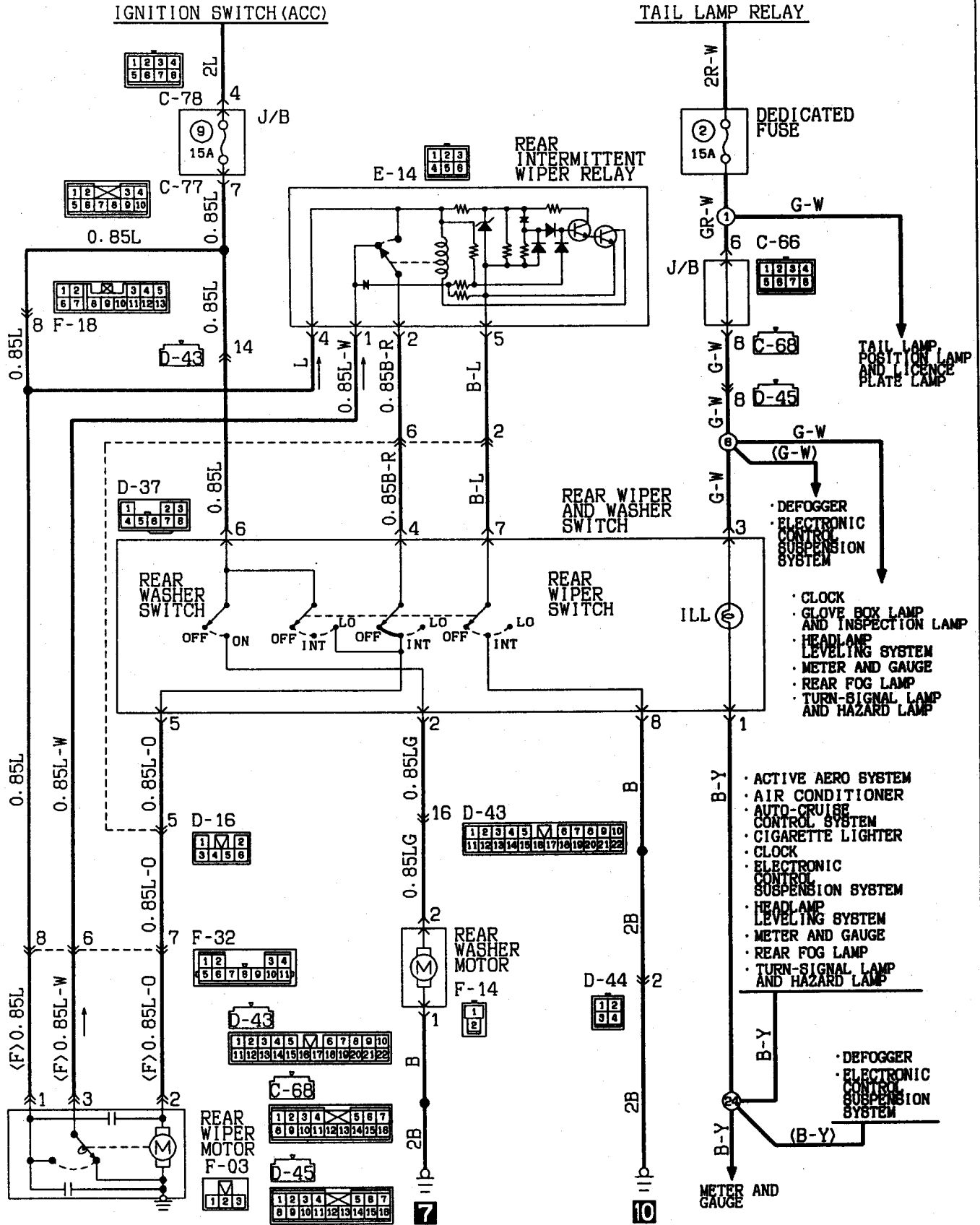
L.H. drive vehicles



Wire colour code
 B:Black LG:Light green G:Green L:Blue V:White Y:Yellow 8B:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

REAR WIPER AND WASHER

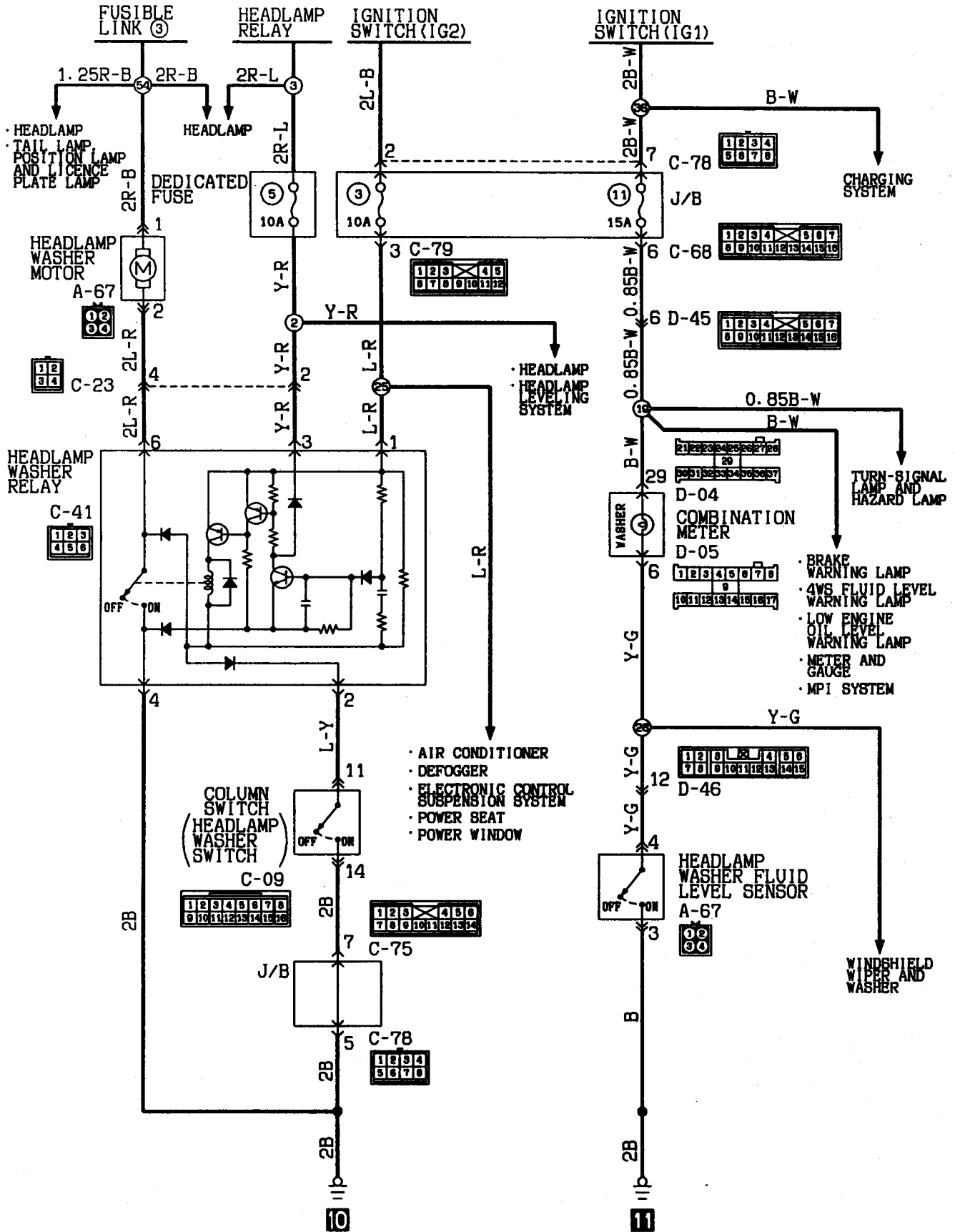
R. H. drive vehicles



Wire colour code
 B:Black LG:Light green G:Green L:Blue W:White Y:Yellow
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet BB:8ky blue

KX35-AC-R1317-EC

HEADLAMP WASHER



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

HEADLAMP WASHER (See P. 4B-128.)

OPERATION

- When the headlamp washer switch is turned ON with ignition switch in ON and lighting switch in HEAD position, the headlamp washer relay is energized causing the headlamp washer motor to start.

<Low washer fluid warning lamp>

- If the headlamp washer fluid is below the specified level when the ignition switch is in the "ON" position, the washer fluid level sensor will be turned on to light the low washer fluid warning lamp.

REMOTE CONTROLLED MIRROR (See P. 4B-130, 131.)

OPERATION

- When the remote controlled mirror switch is operated while the ignition key is in "ACC" or "ON" position, current flows through fuse No. ⑤ remote controlled mirror switch, remote controlled mirror, remote controlled mirror switch, and earth, causing the mirror to move.

TROUBLESHOOTING HINTS

Neither right nor left mirror operates

1) Also cigarette lighter does not operate

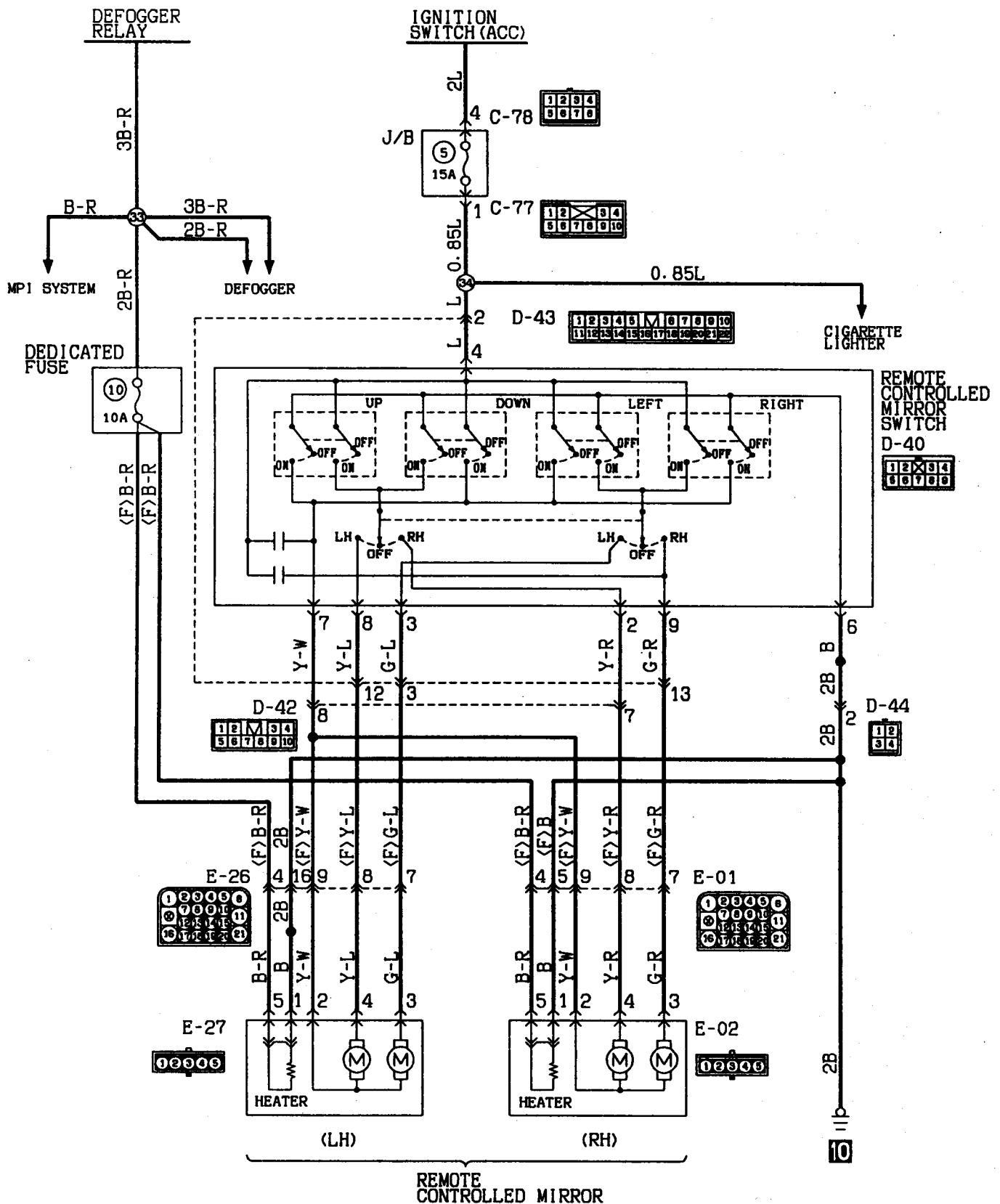
- Check multi-purpose fuse No. ⑤.

2) Cigarette lighter operates

- Check remote controlled mirror switch.

REMOTE CONTROLLED MIRROR

L.H. drive vehicles

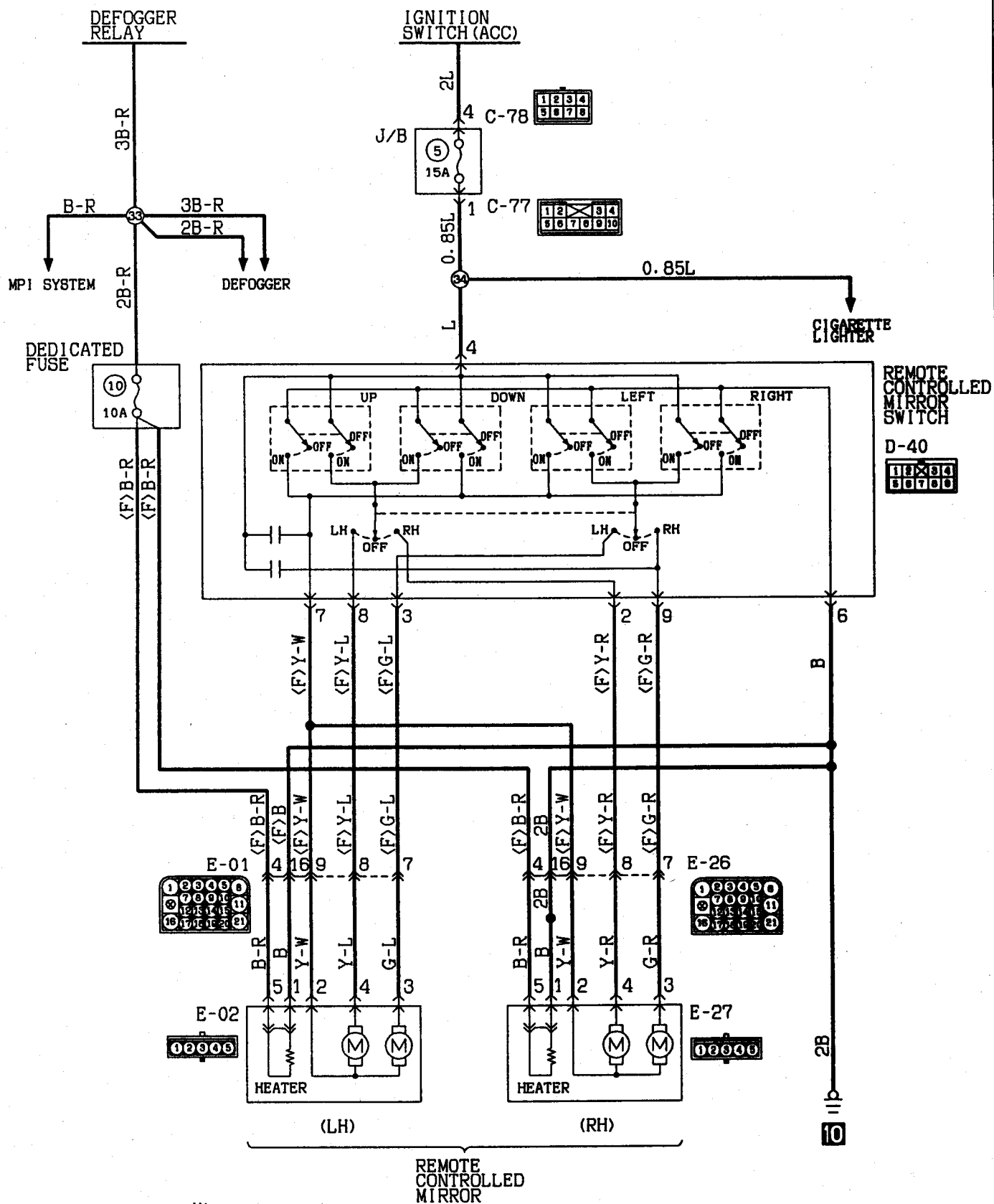


Wire colour code

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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet BB:Sky blue

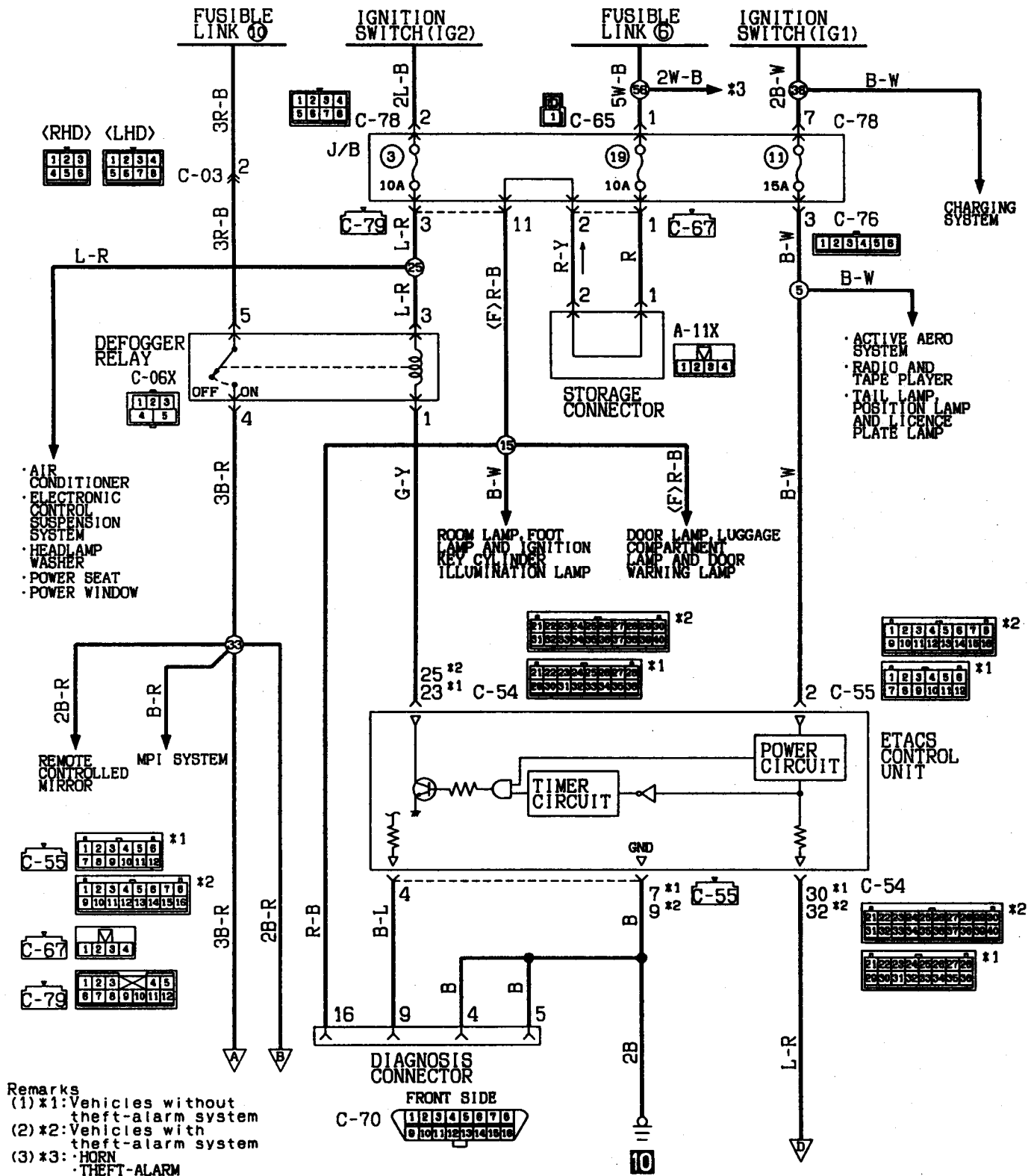
REMOTE CONTROLLED MIRROR

R. H. drive vehicles



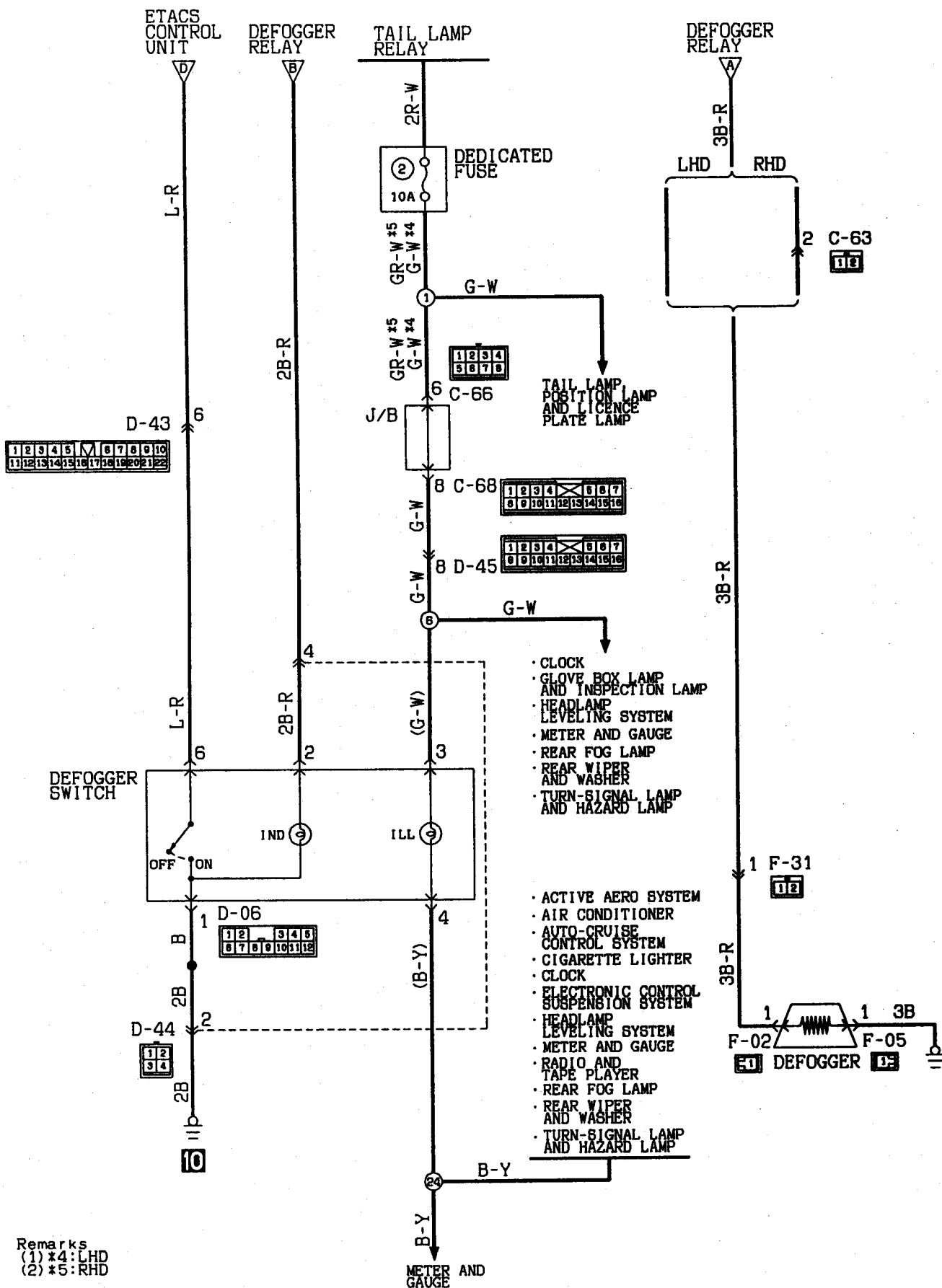
Wire colour code
 B:Black LG:Light green G:Green L:Blue V:White Y:Yellow SB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

DEFOGGER



Remarks
 (1) *1: Vehicles without theft-alarm system
 (2) *2: Vehicles with theft-alarm system
 (3) *3: HORN THEFT-ALARM SYSTEM

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



DEFOGGER (See P. 4B-132.)**OPERATION**

- If the defogger switch is turned to "ON" with the ignition switch at the "ON" position, the timer circuit in the ETACS control unit will be operated keep the transistor "on" for 11 minutes to close the contact point of the defogger relay. When the defogger relay is "on", the defogger and mirror heater will be activated. Moreover, the indicator lamp of the defogger switch is lit to inform that the defogger and mirror heater are activated.
- When 11 minutes have passed, the defogger and mirror heater will stop activating even if the defogger switch is at "ON". When the defogger and mirror heater are activated (the timer is activated), they will also stop activating even if the defogger switch is set at "ON" again.

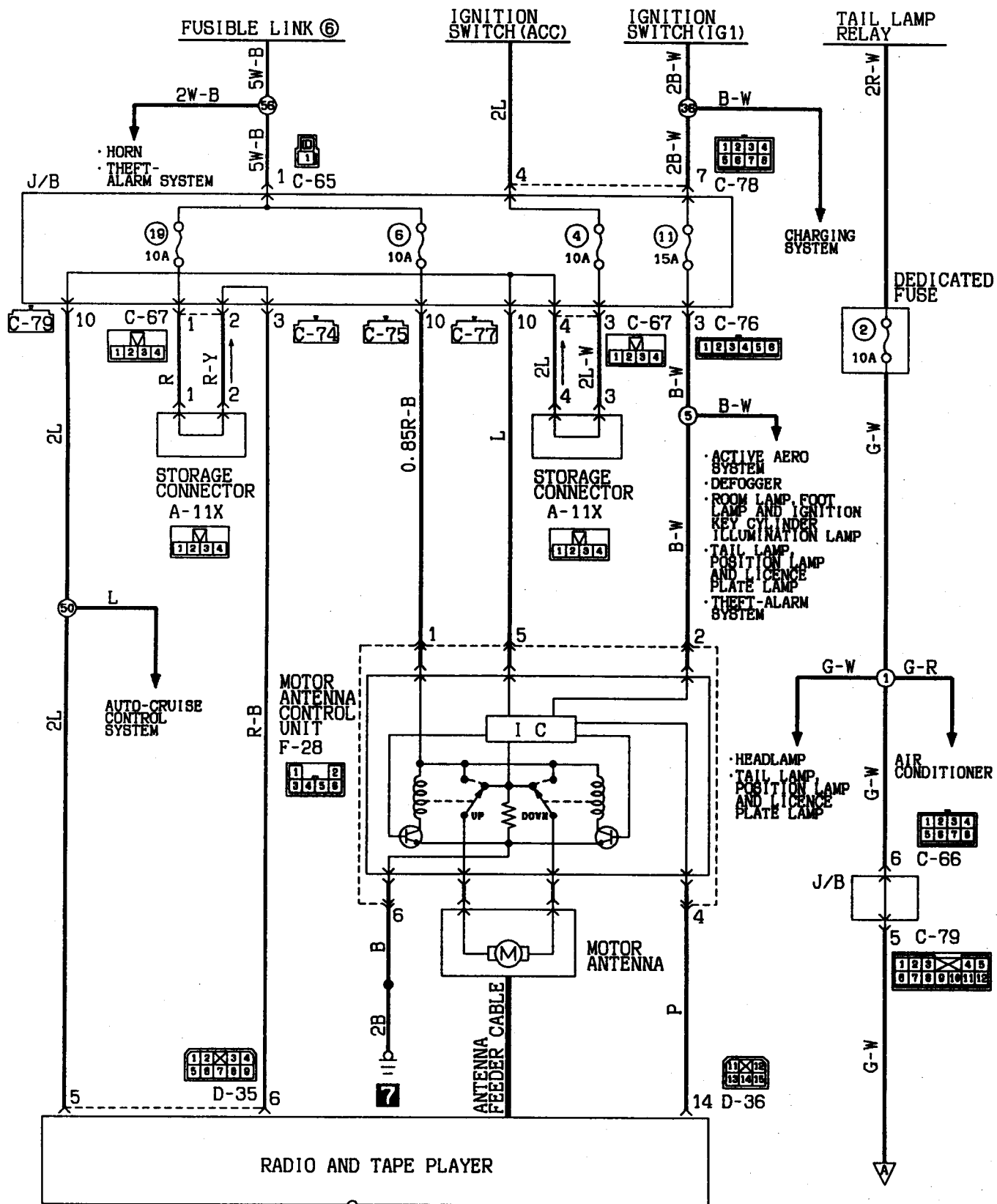
TROUBLESHOOTING HINTS

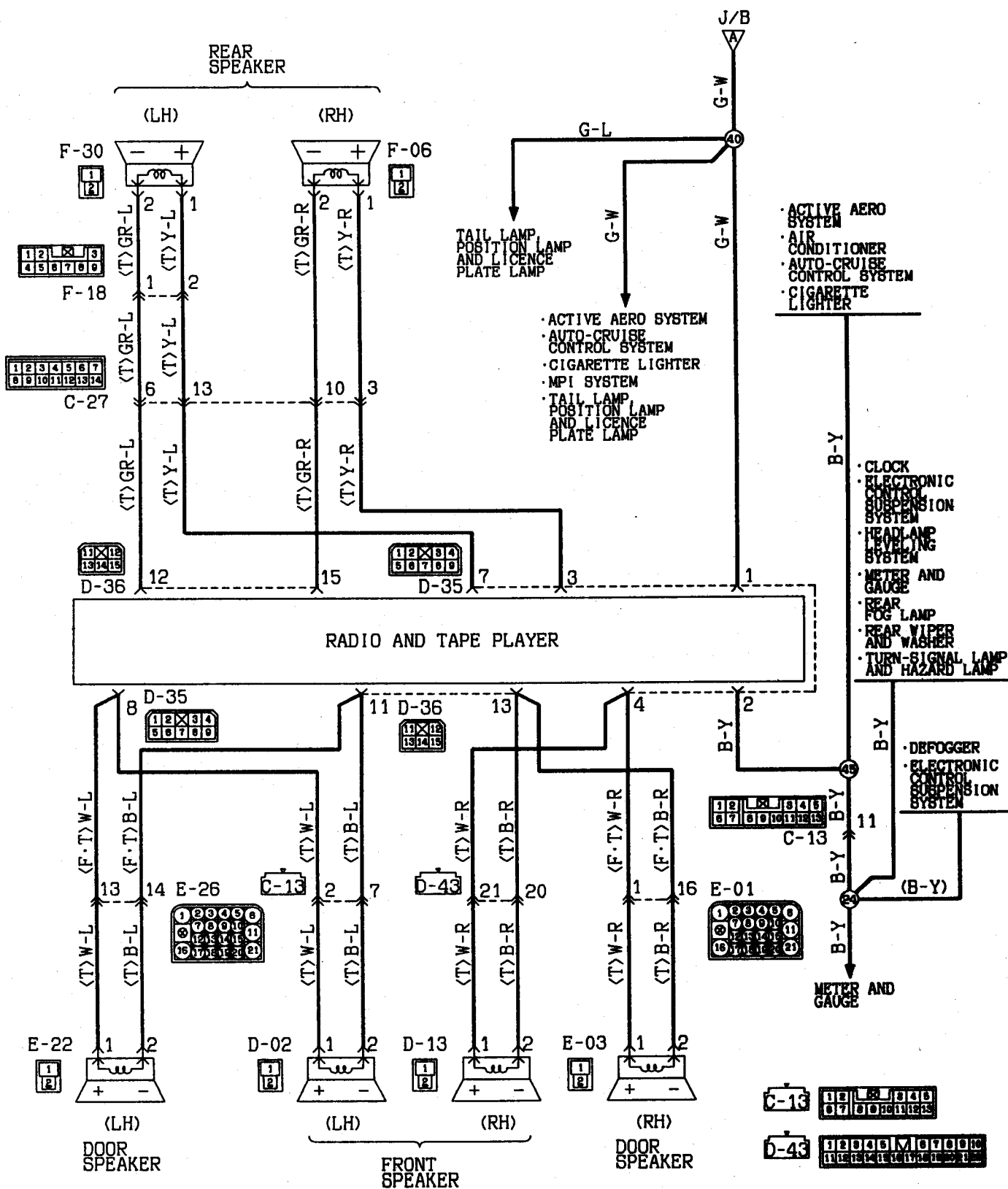
Phenomenon	Checking method
Mirror heater operates but defogger does not operate.	<ul style="list-style-type: none"> • Check the defogger
Defogger operates but mirror heater does not operate.	<ul style="list-style-type: none"> • Check the dedicated fuse No. ⑩. • Check the mirror heater.
Neither defogger nor mirror heater operates.	<ul style="list-style-type: none"> • Check the multi-purpose fuse No. ③. • Check the defogger relay. • Check the defogger switch. • Check the defogger switch input signal. • Check the ignition switch input signal.
Illumination lamp of defogger switch does not come on or is dim.	<ul style="list-style-type: none"> • Check the illumination lamp bulb. • Check the rheostat.

NOTES

RADIO AND TAPE PLAYER

L. H. drive vehicles

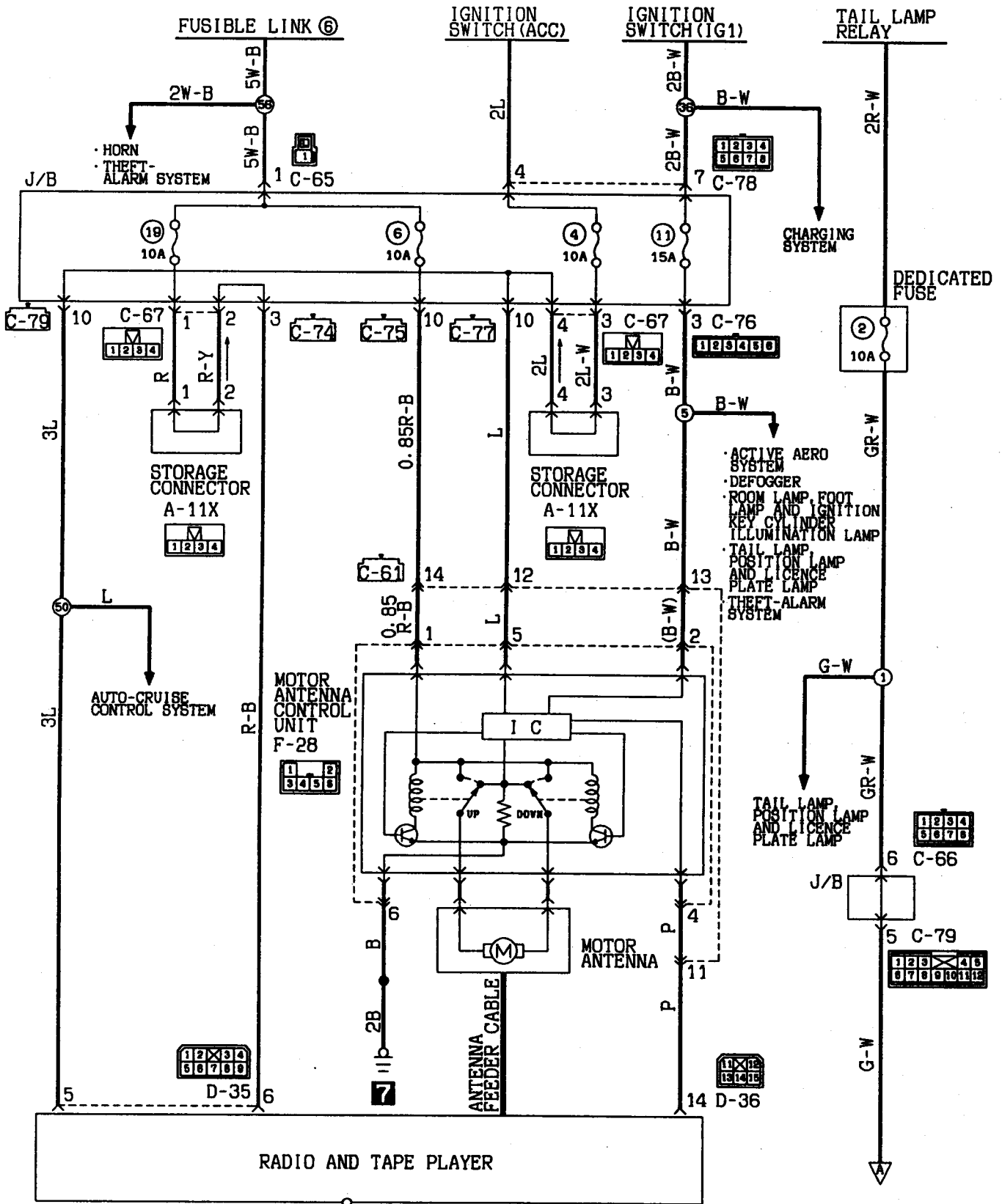


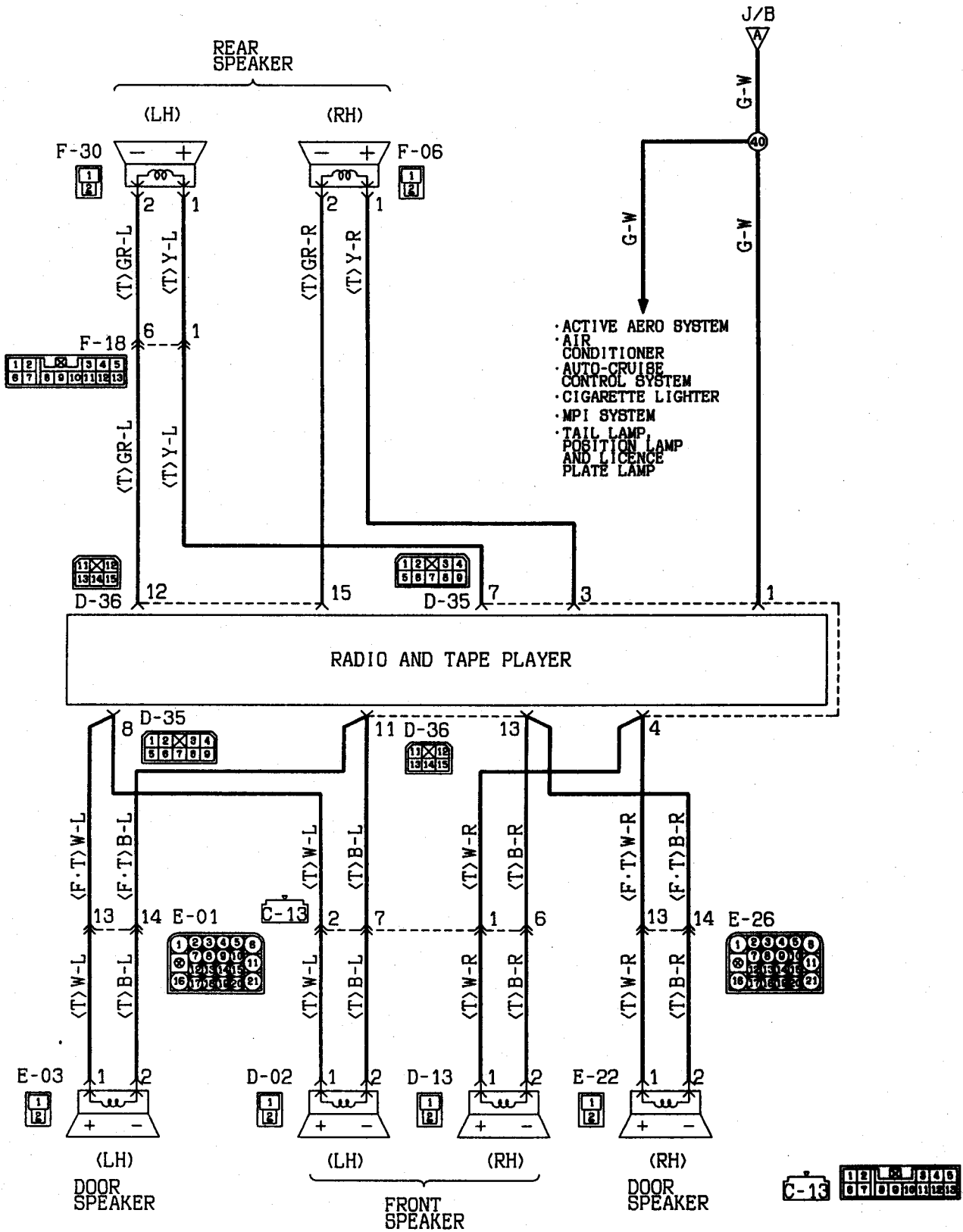


Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

RADIO AND TAPE PLAYER

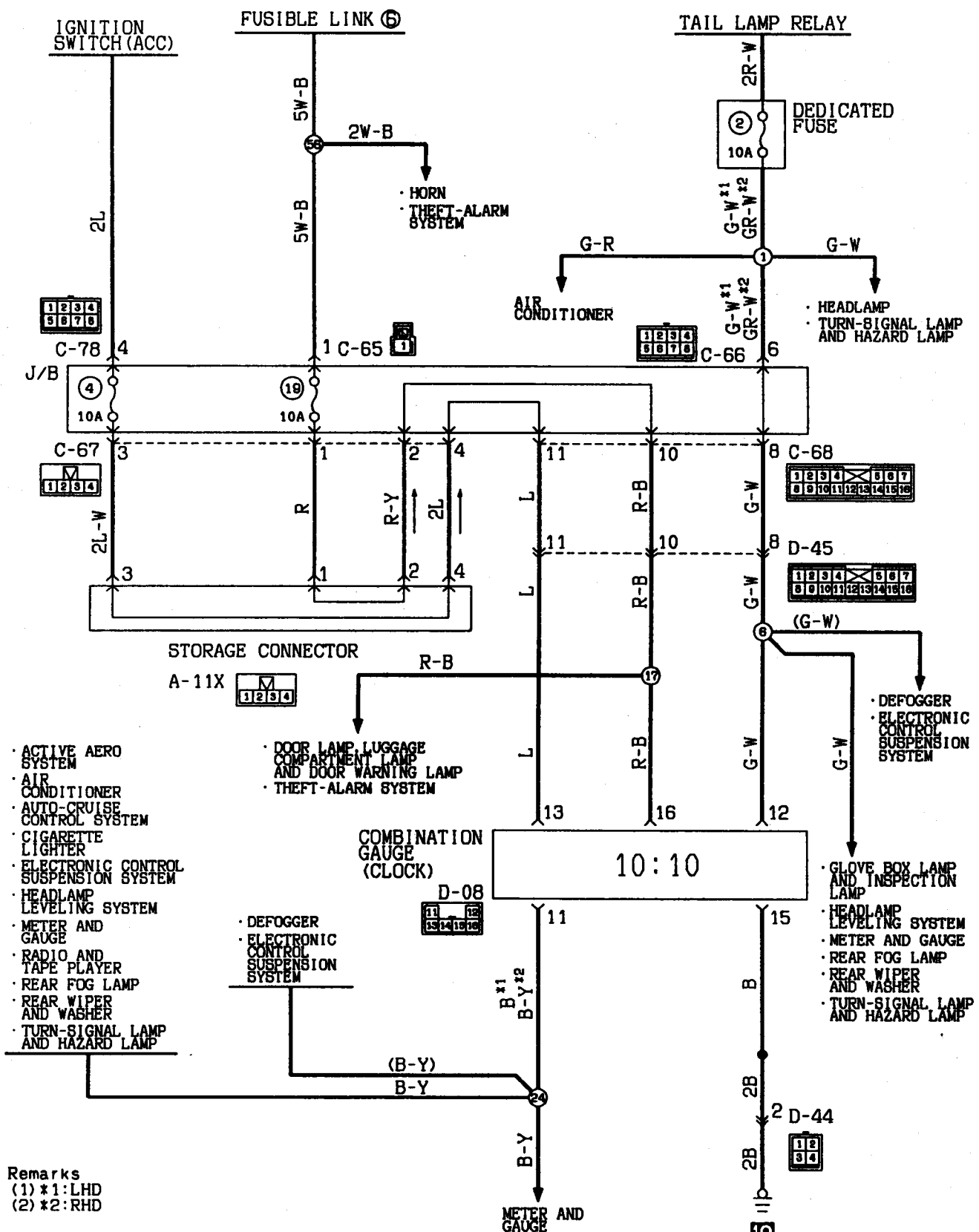
R. H. drive vehicles





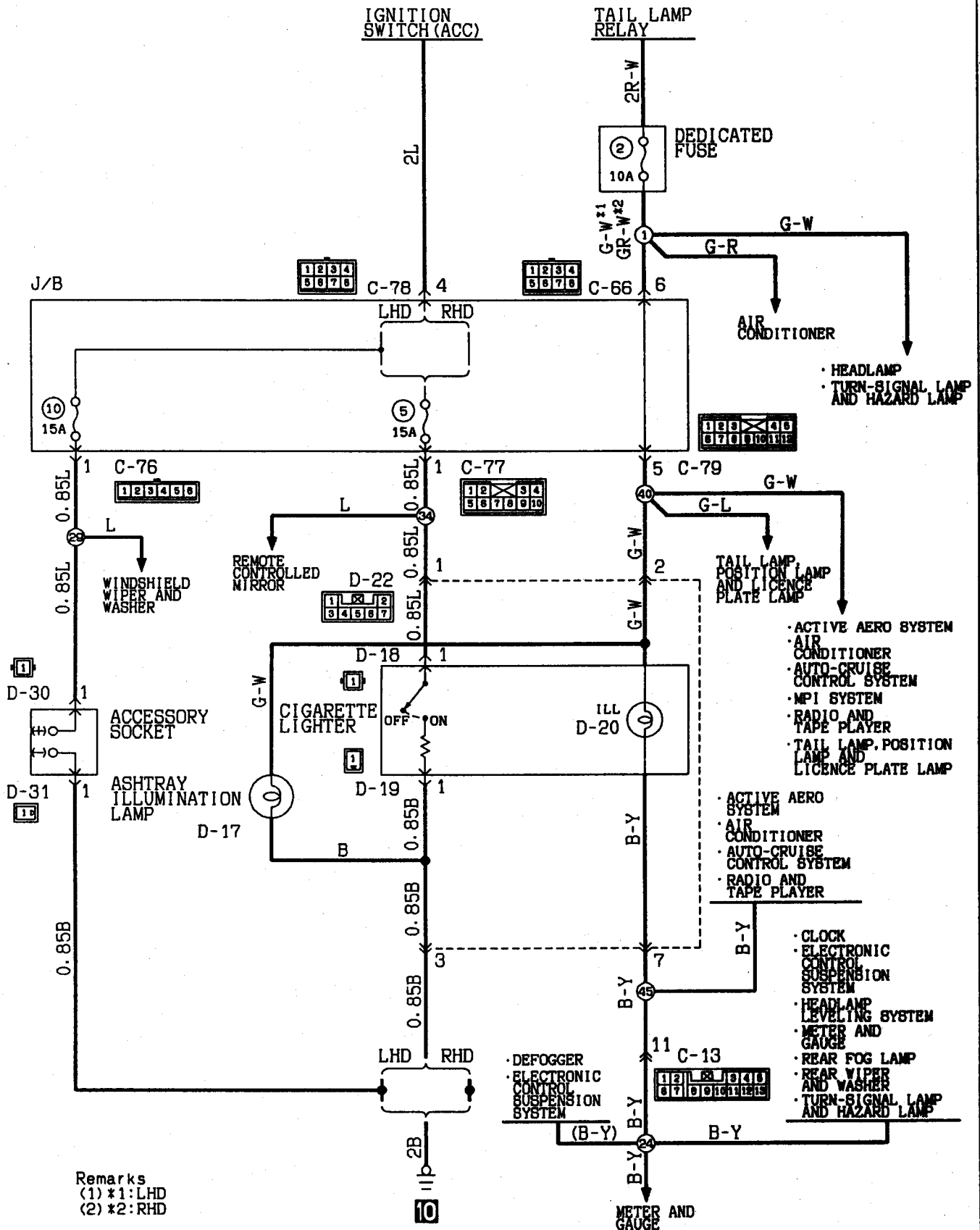
Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

CLOCK



Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

CIGARETTE LIGHTER

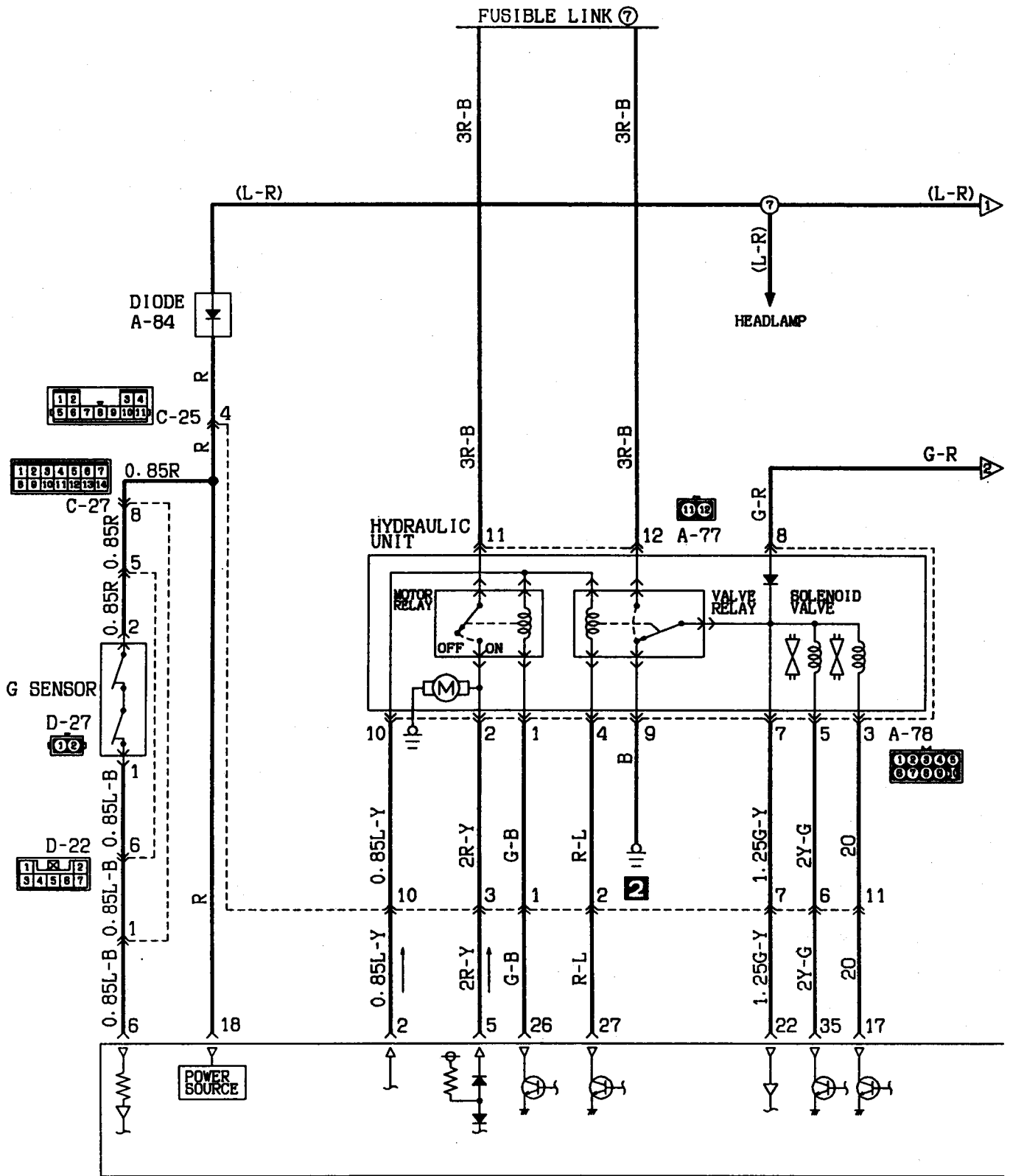


Remarks
 (1) *1: LHD
 (2) *2: RHD

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

ANTI-LOCK BRAKE SYSTEM (ABS)

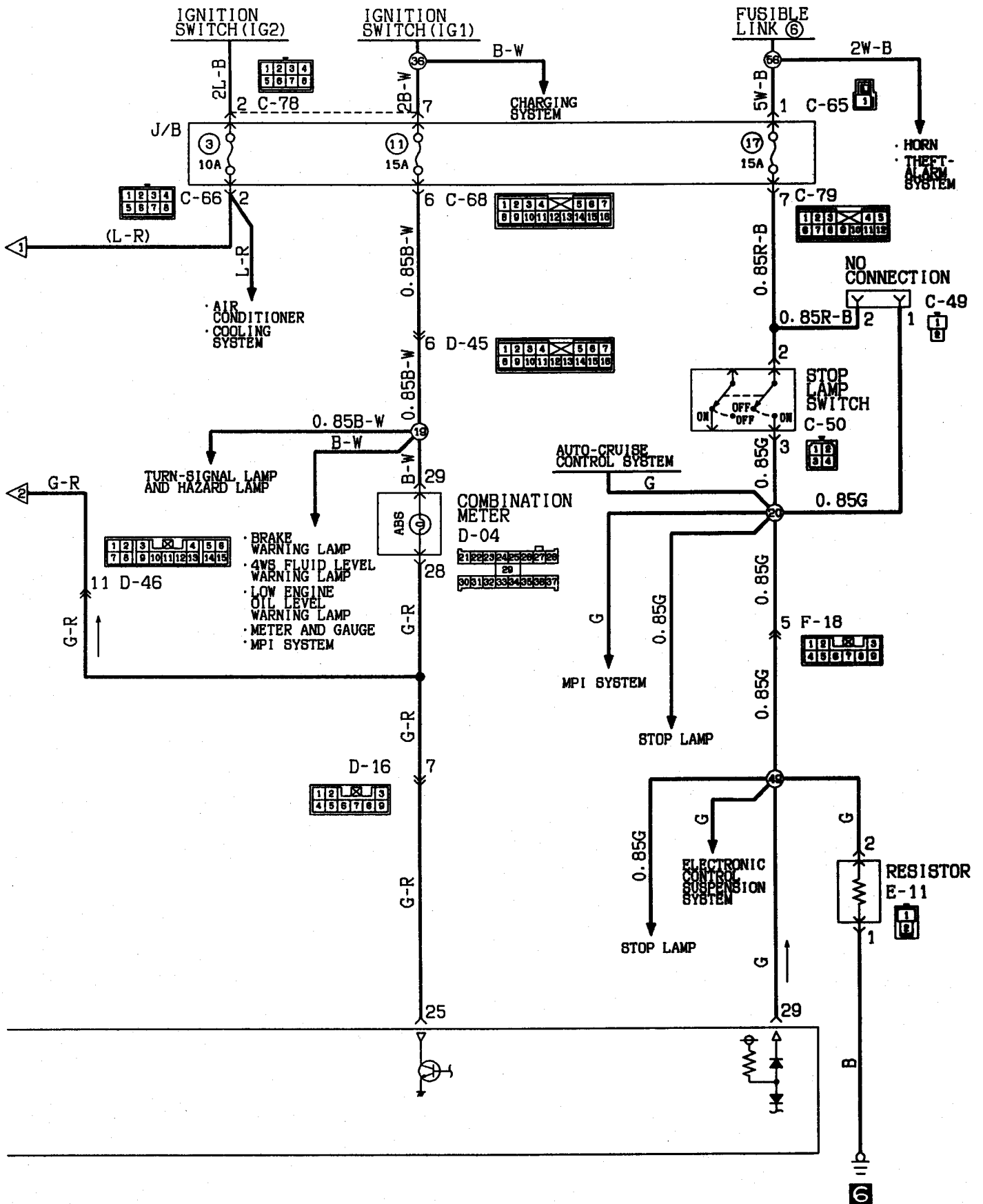
L.H. drive vehicles



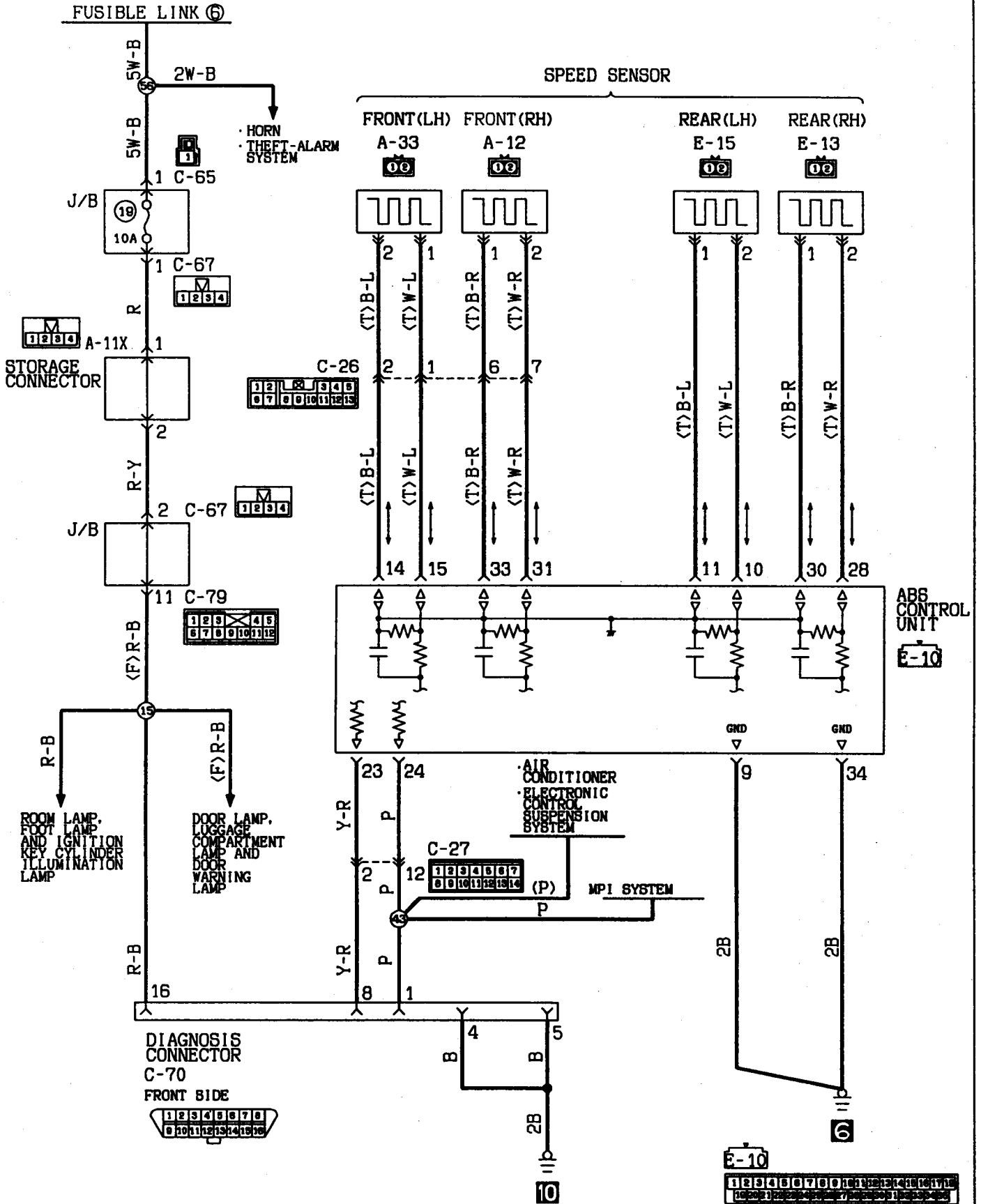
ABS CONTROL UNIT

E-10



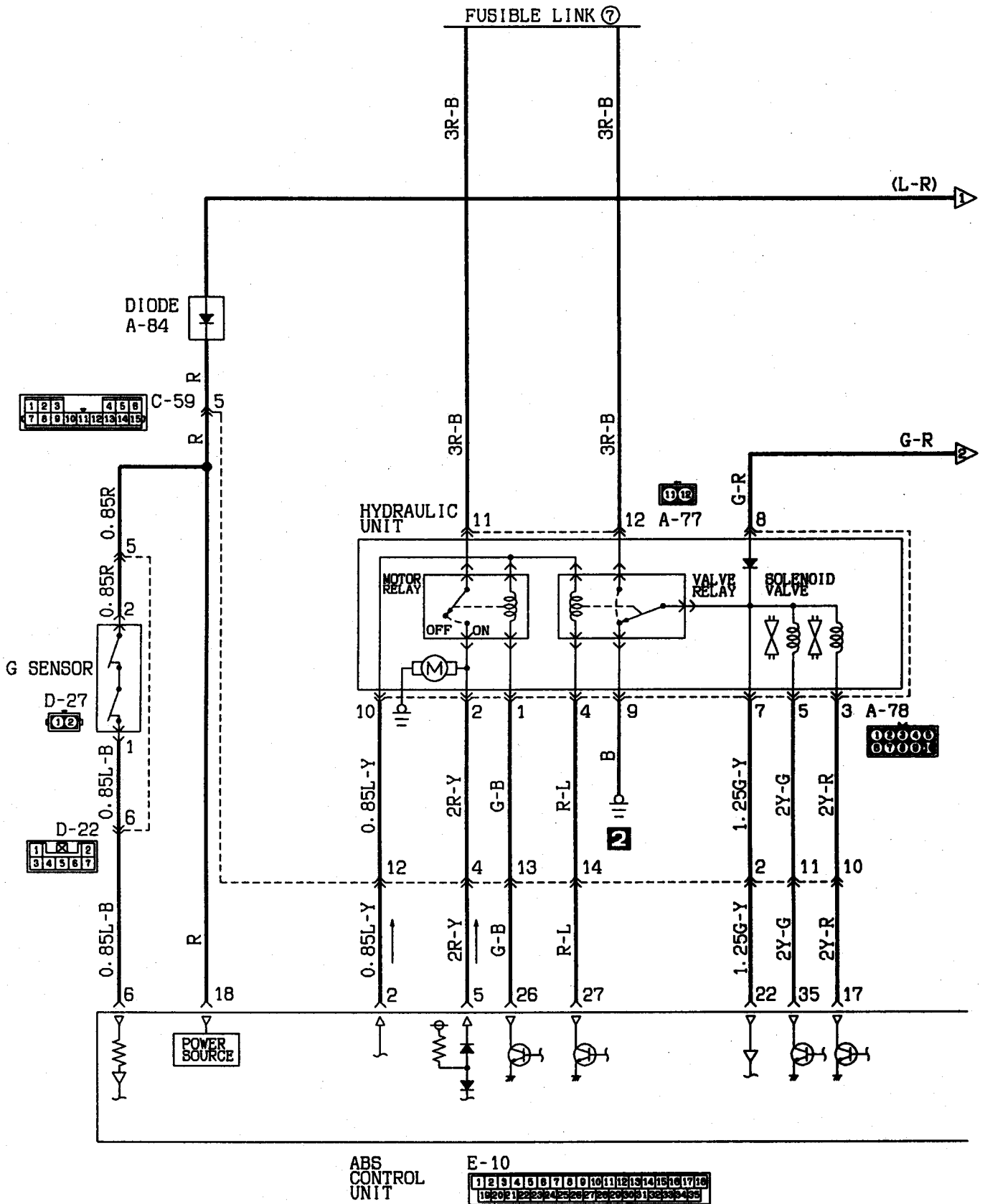


Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

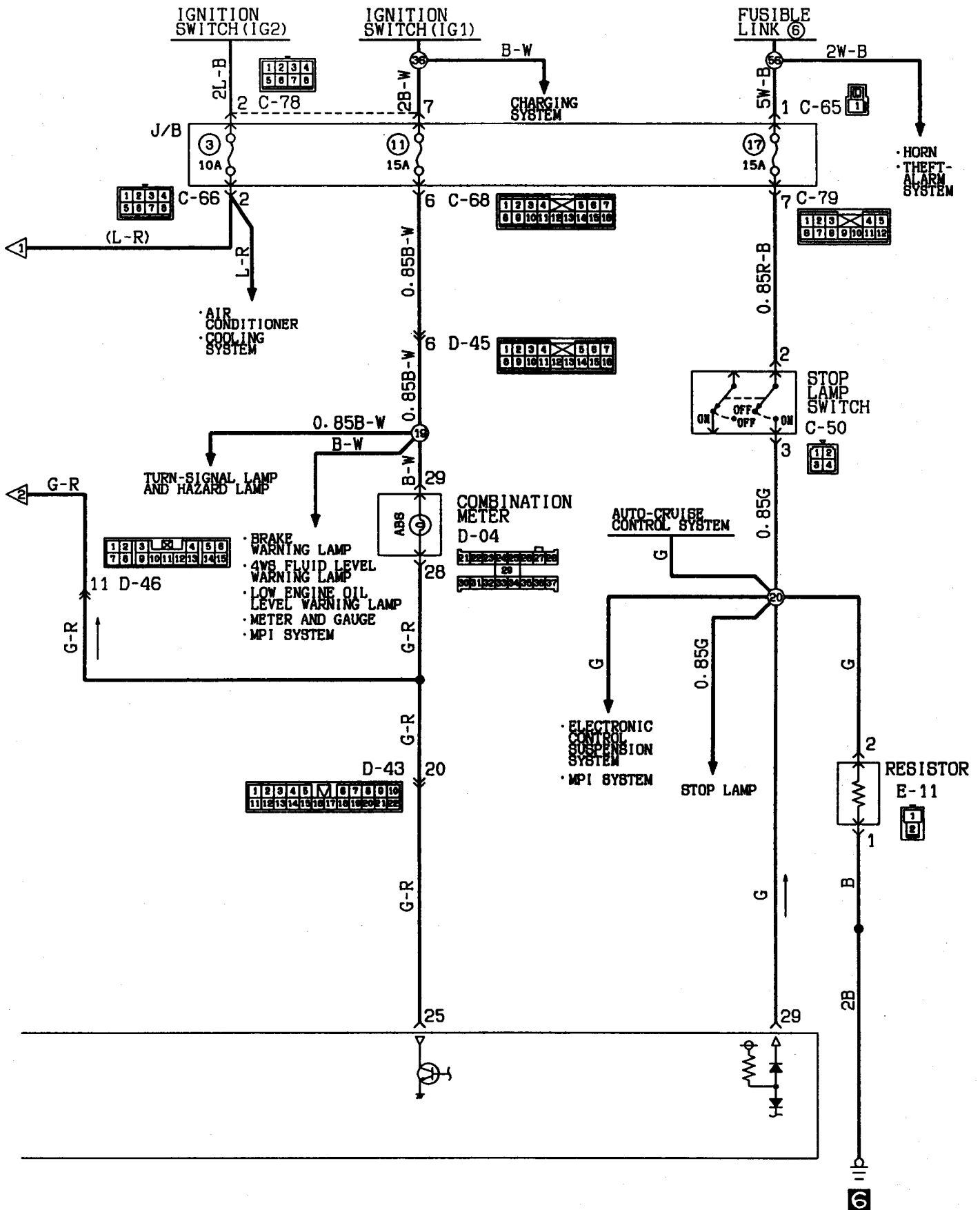


Wire colour code
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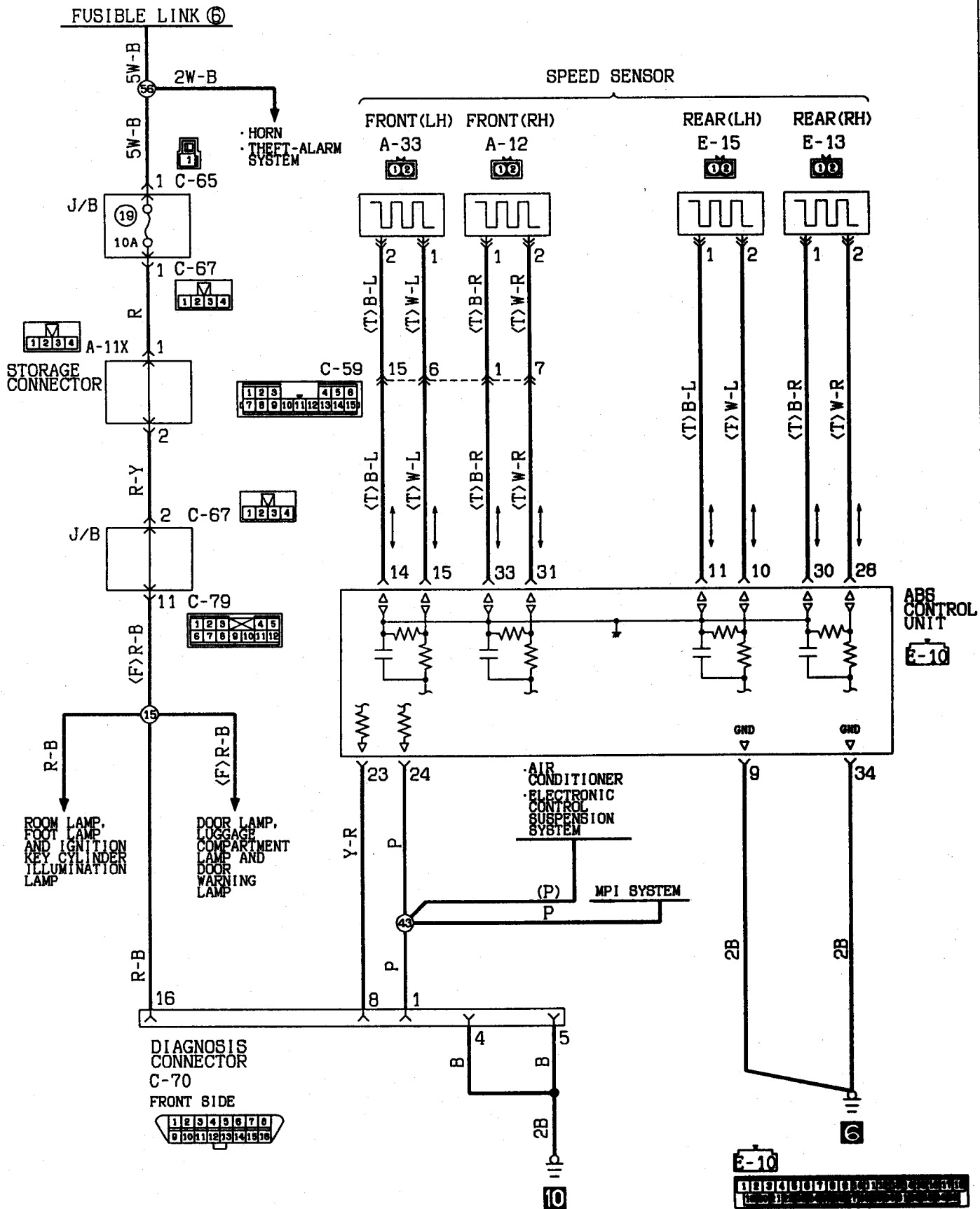
ANTI-LOCK BRAKE SYSTEM (ABS)
R.H. drive vehicles



KX35-AC-R1538-EC



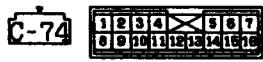
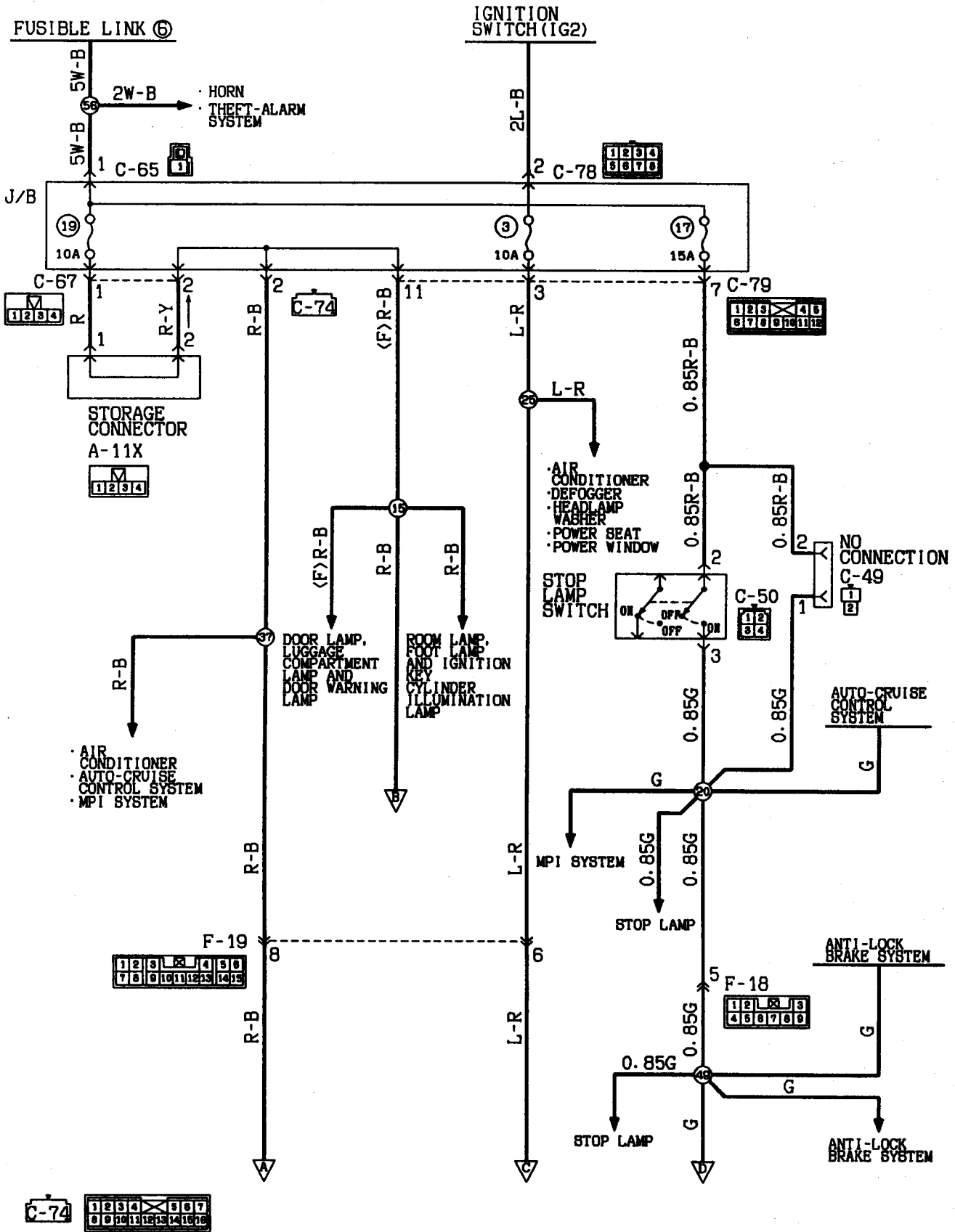
Wire colour code
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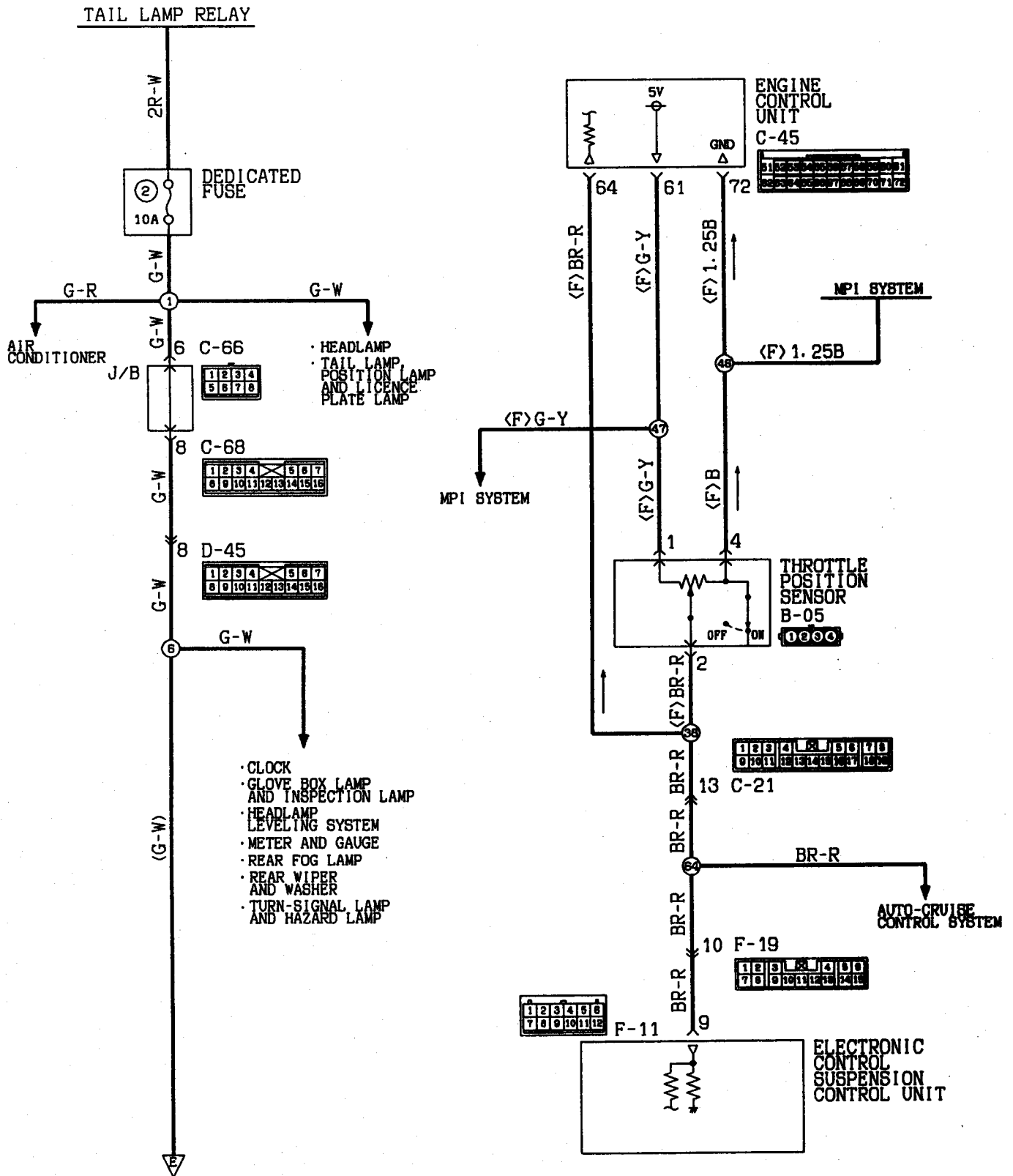
Wire colour code
 B:Black LG:Light green G:Green L:Blue W:White Y:Yellow SB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

ELECTRONIC CONTROL SUSPENSION (ECS) SYSTEM

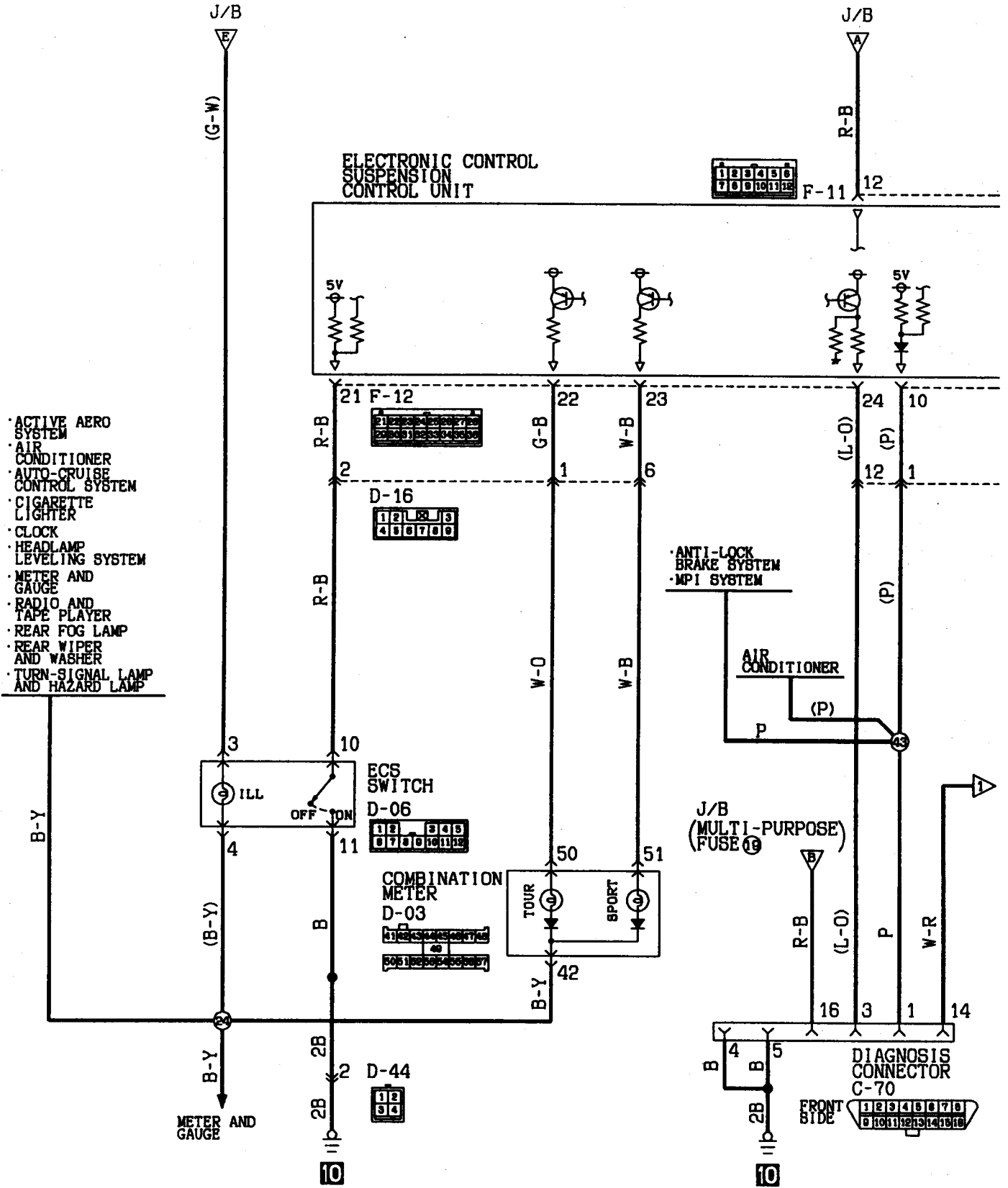
L. H. drive vehicles

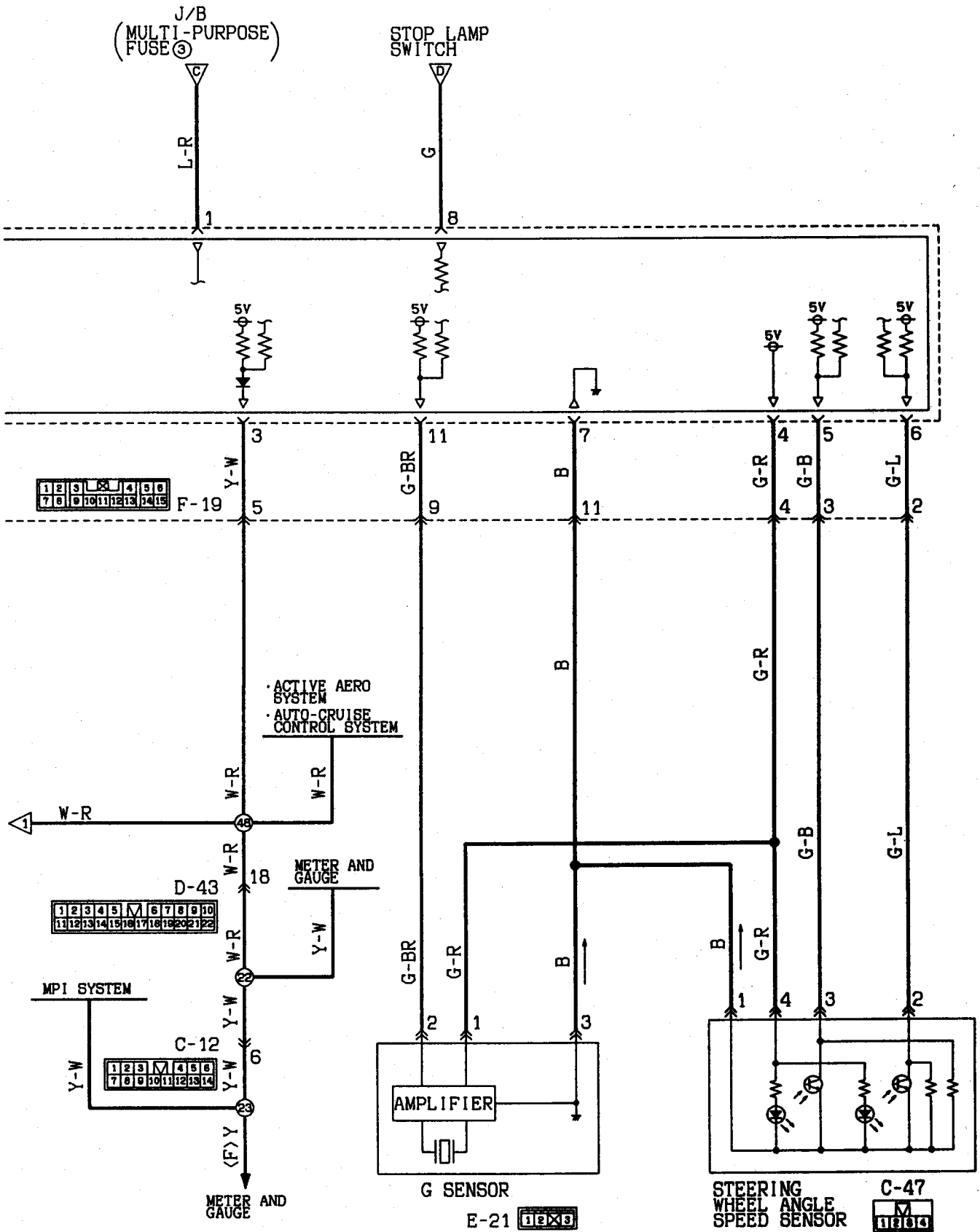


Wire colour code
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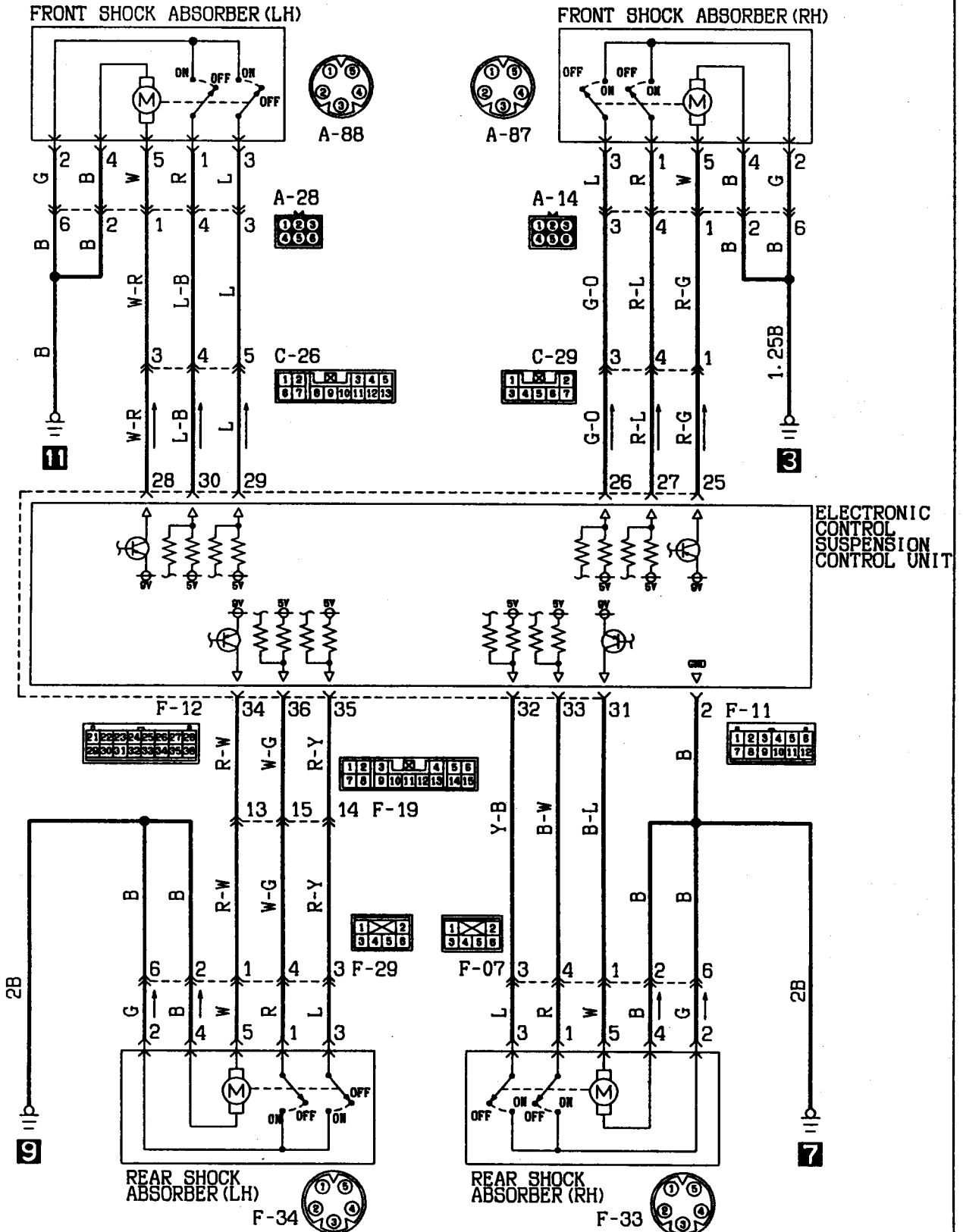


4B-150 CIRCUIT DIAGRAM — Electronic Control Suspension (ECS) System





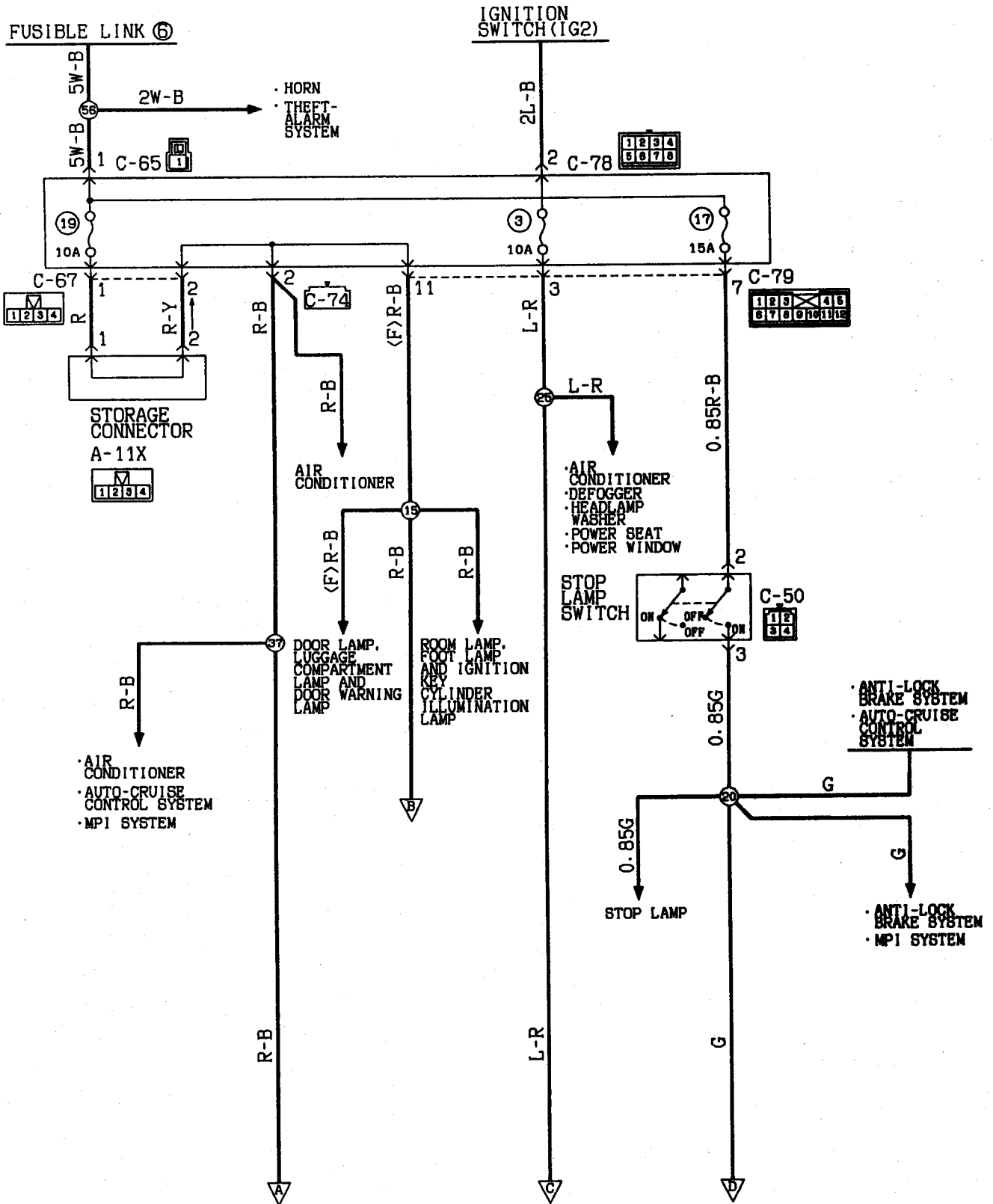
4B-152 CIRCUIT DIAGRAM — Electronic Control Suspension (ECS) System



Wire colour code
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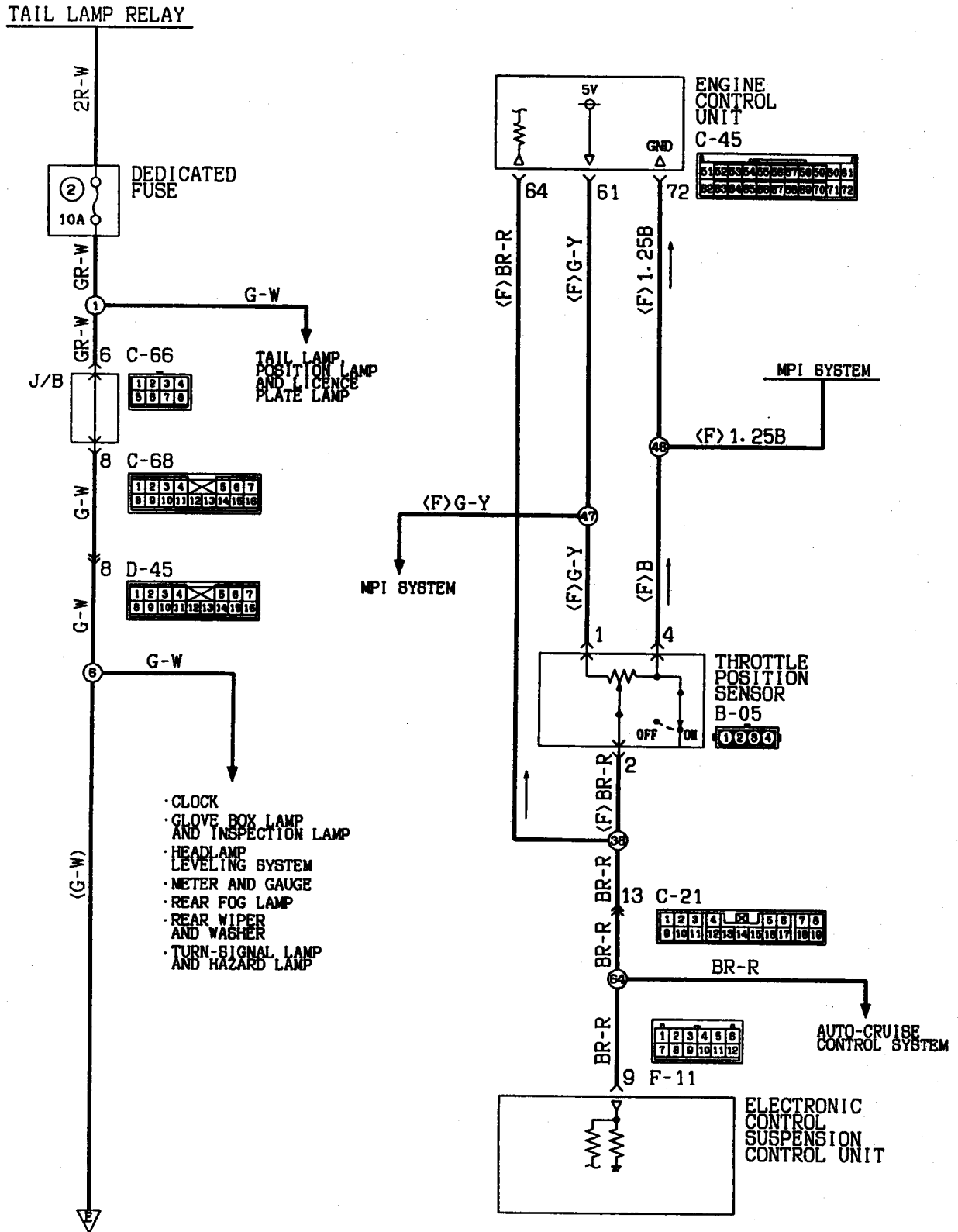
ELECTRONIC CONTROL SUSPENSION (ECS) SYSTEM

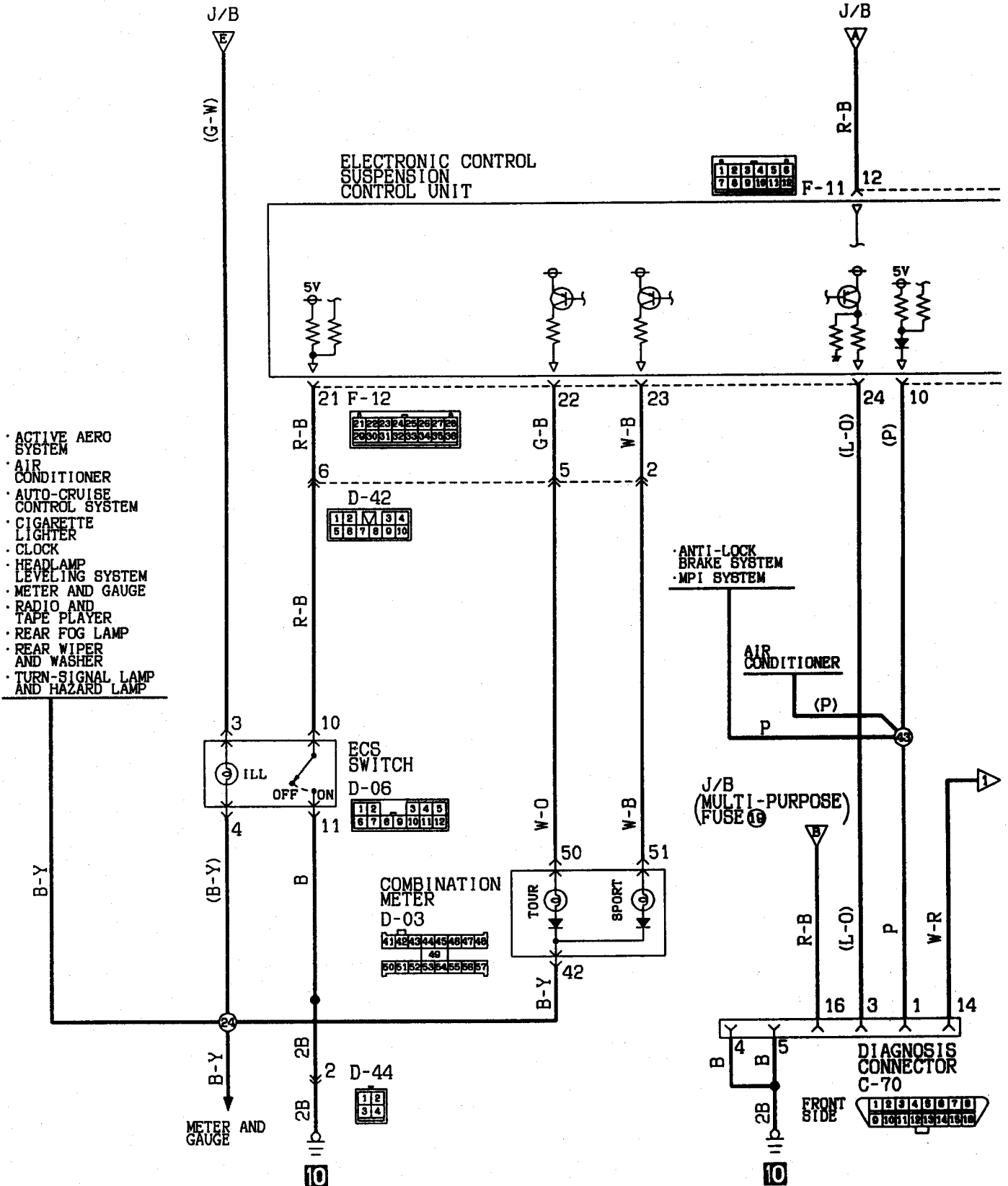
R. H. drive vehicles



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

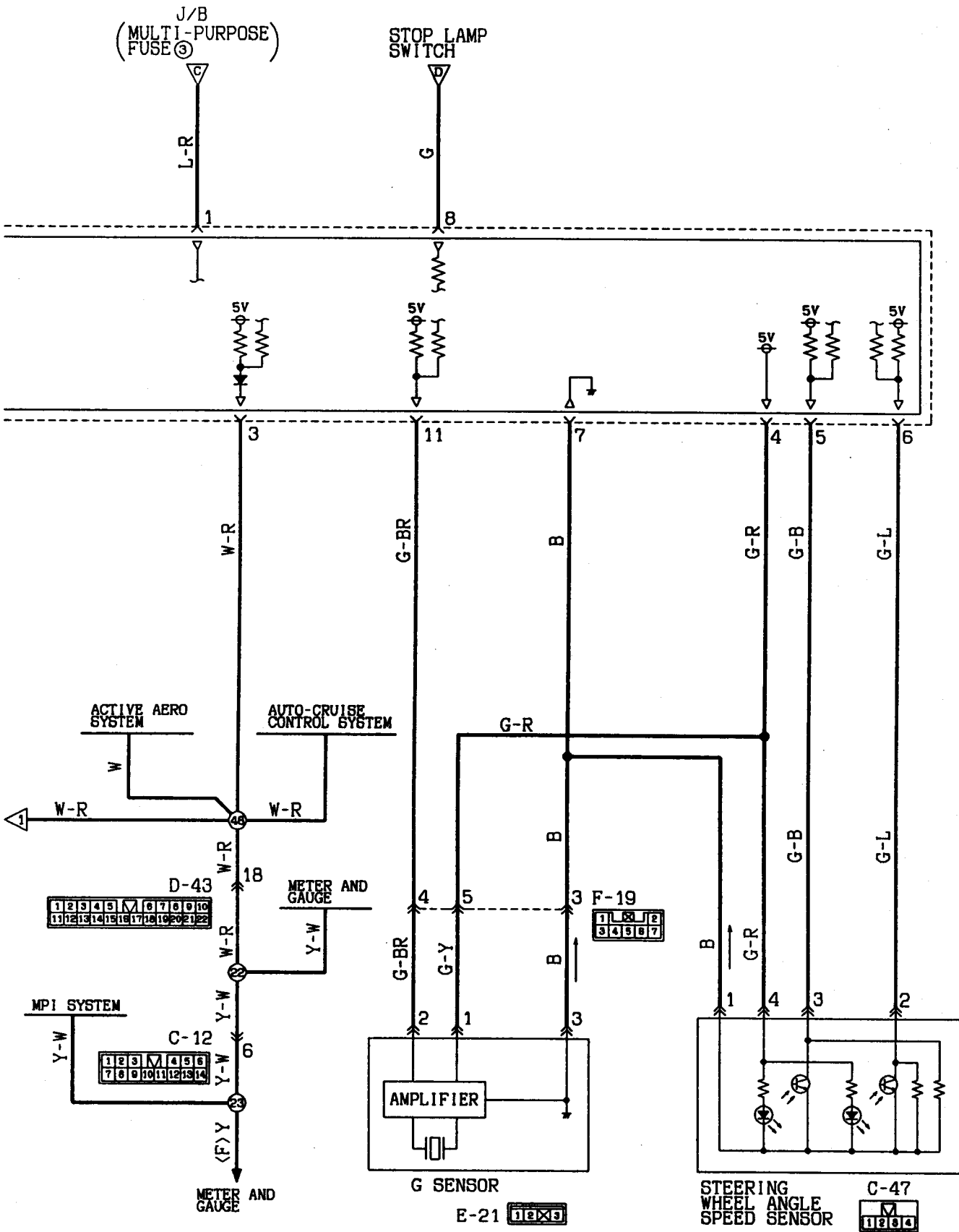
4B-154 CIRCUIT DIAGRAM — Electronic Control Suspension (ECS) System

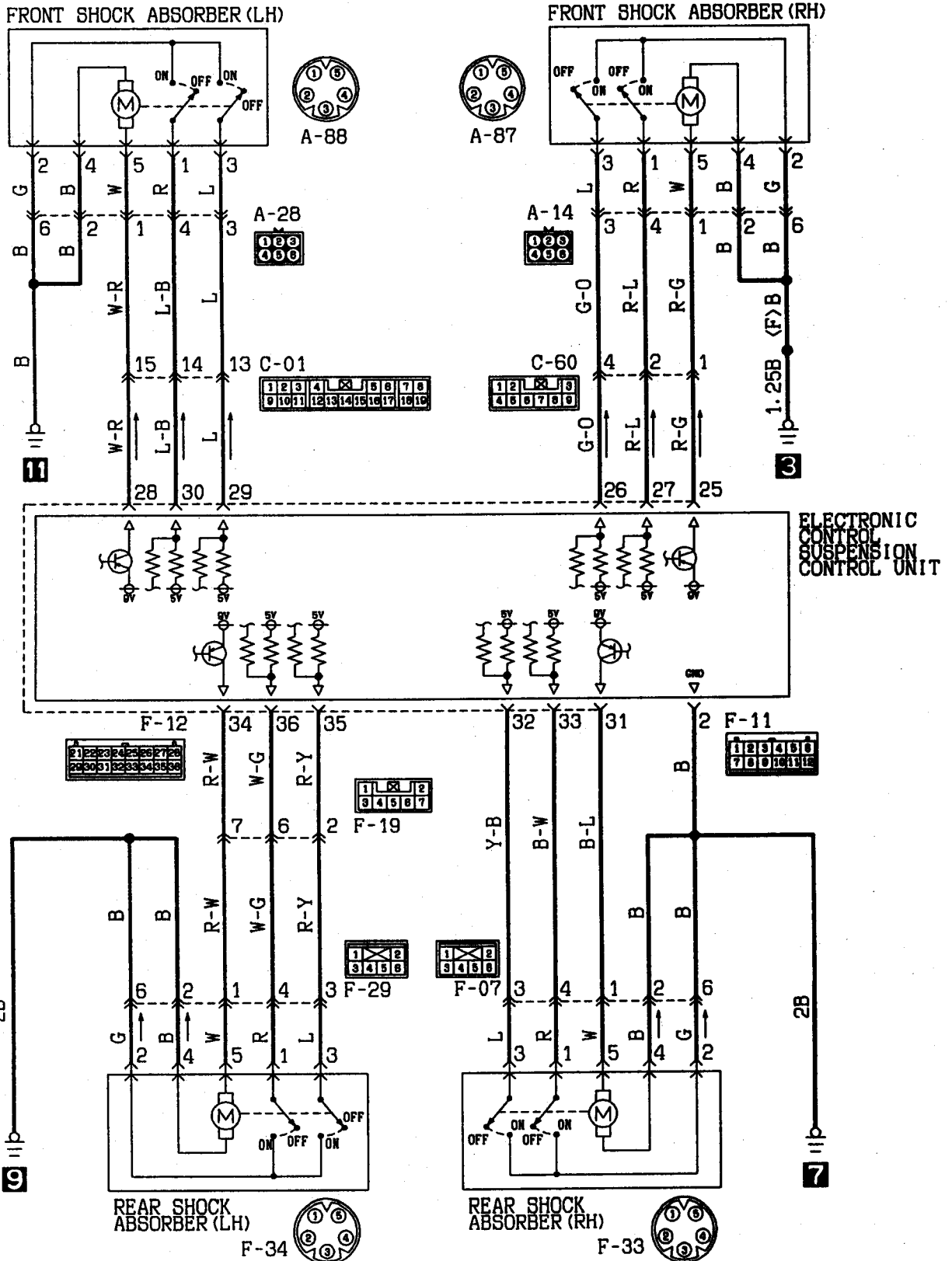




Wire colour code
 B:Black LG:Light green G:Green L:Blue V:White Y:Yellow
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet BB:Sky blue

4B-156 CIRCUIT DIAGRAM — Electronic Control Suspension (ECS) System

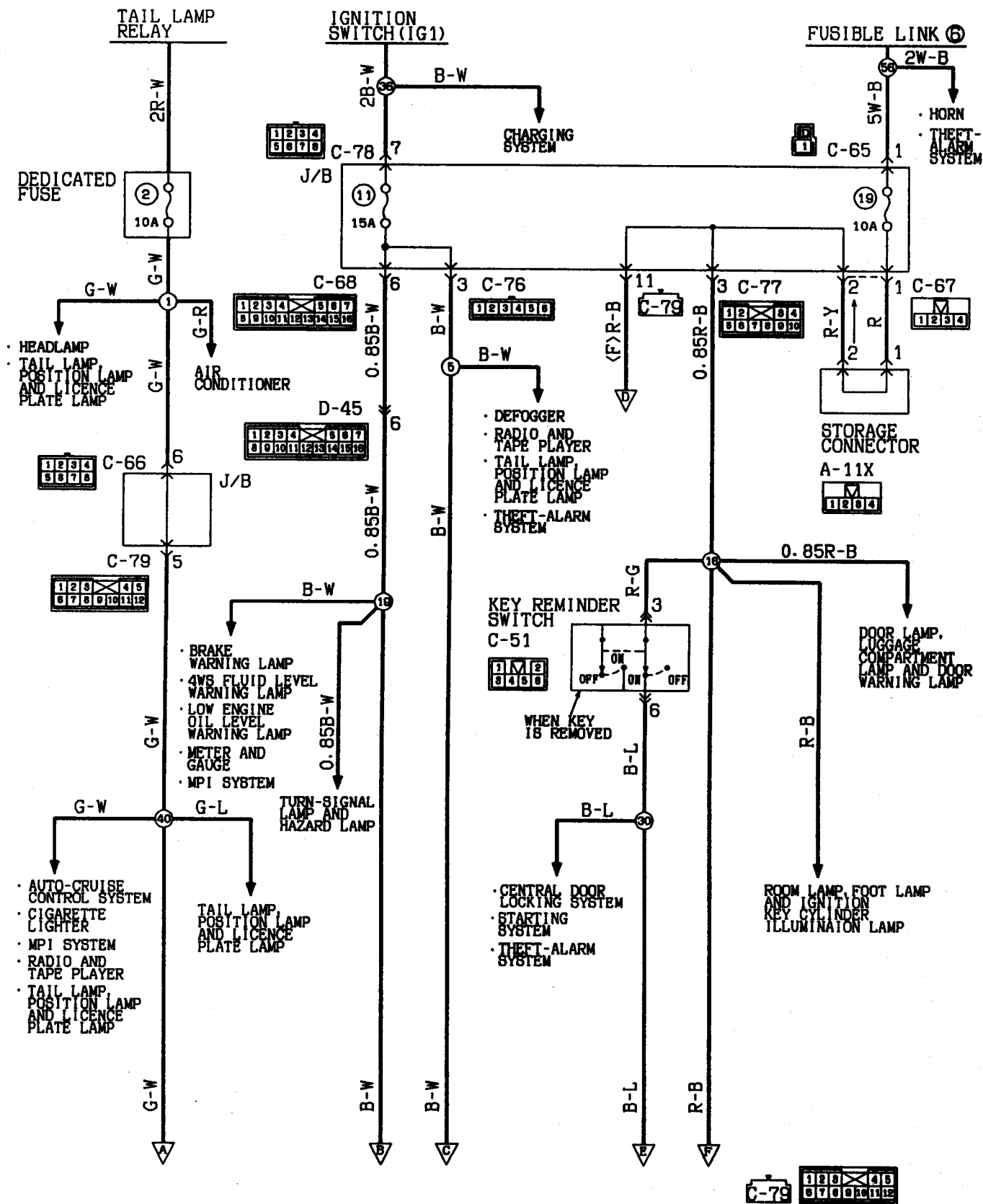




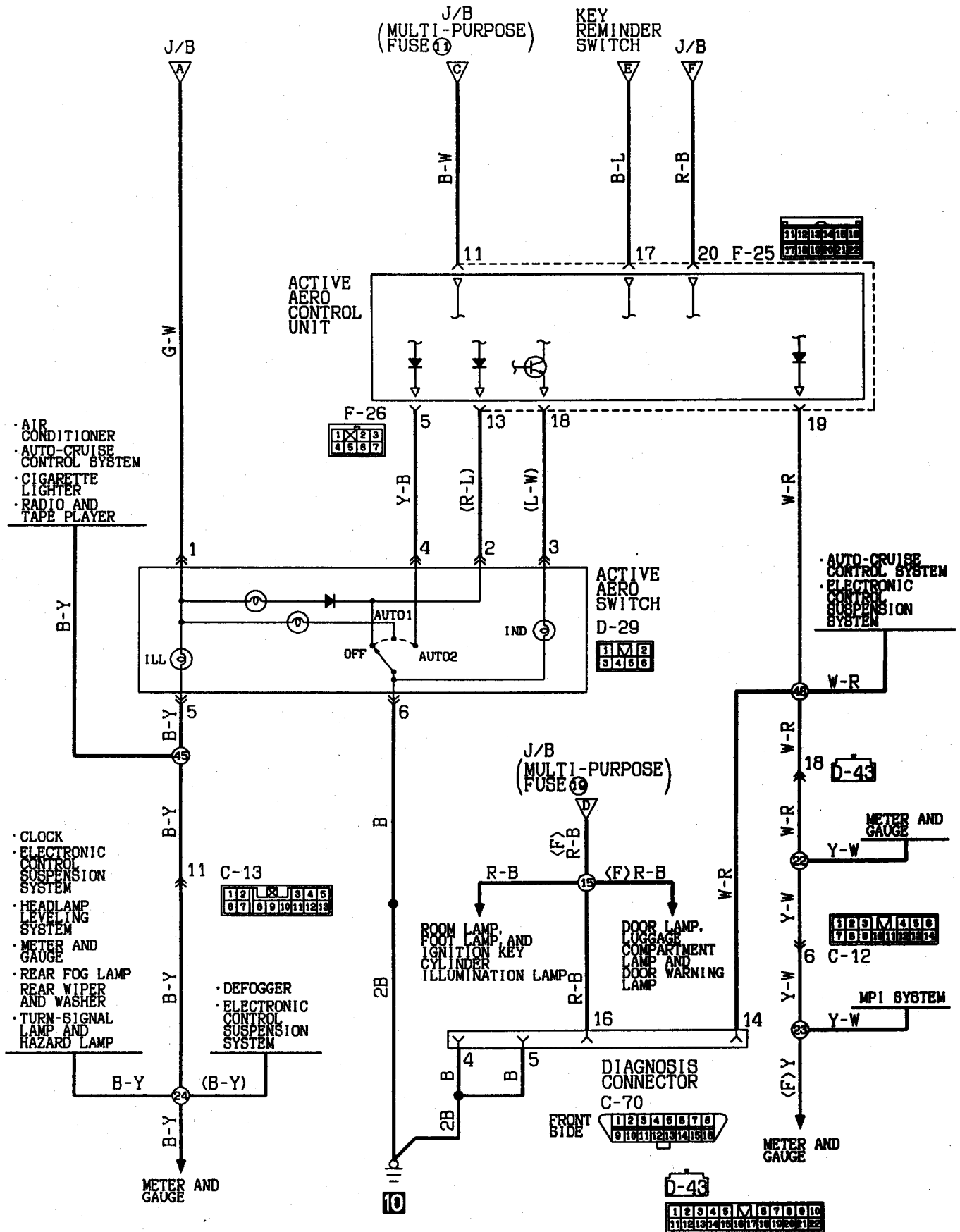
Wire colour code
 B:Black LG:Light green G:Green L:Blue W:White Y:Yellow SB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

ACTIVE AERO SYSTEM

L.H. drive vehicles with theft-alarm system

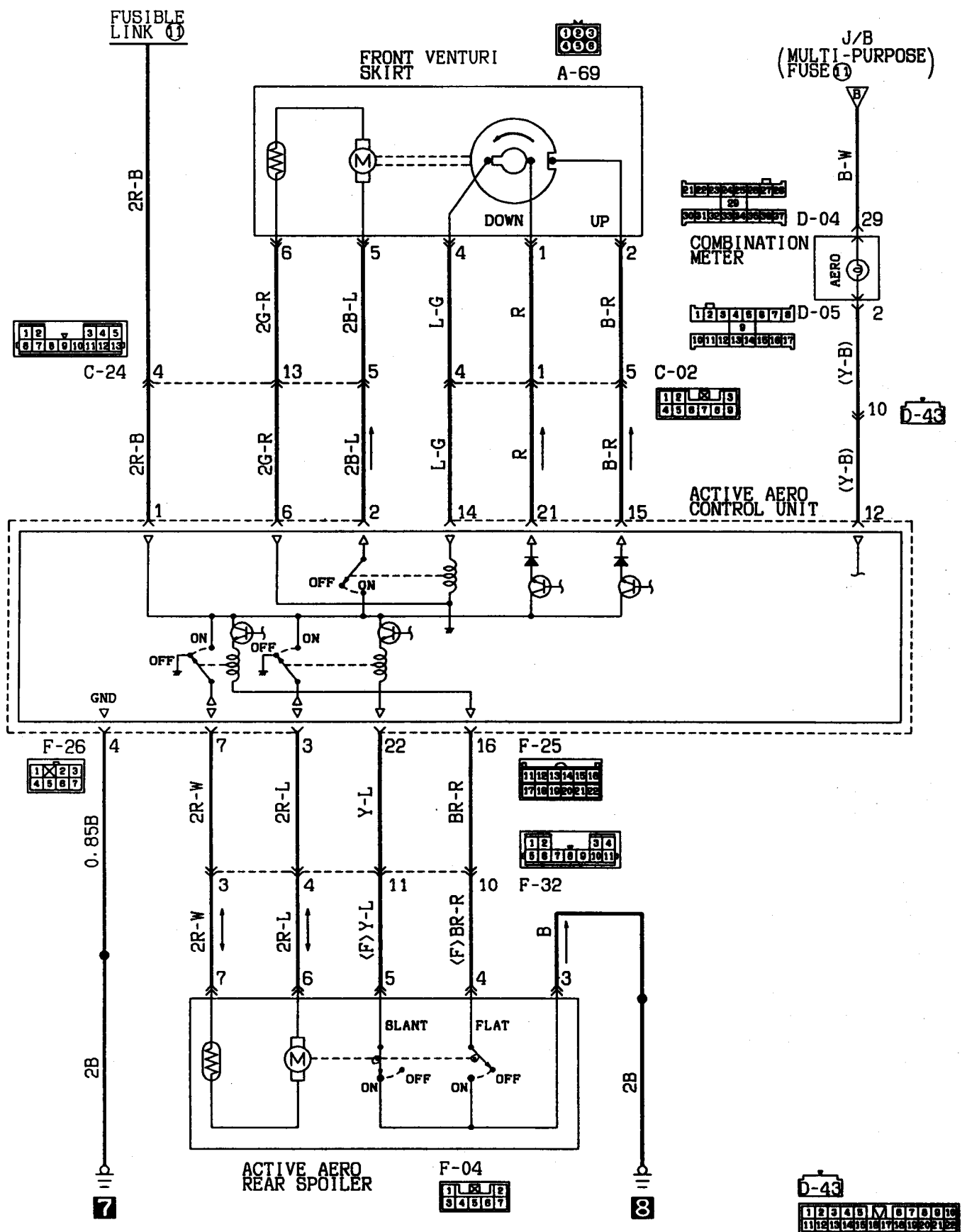


Wire colour code
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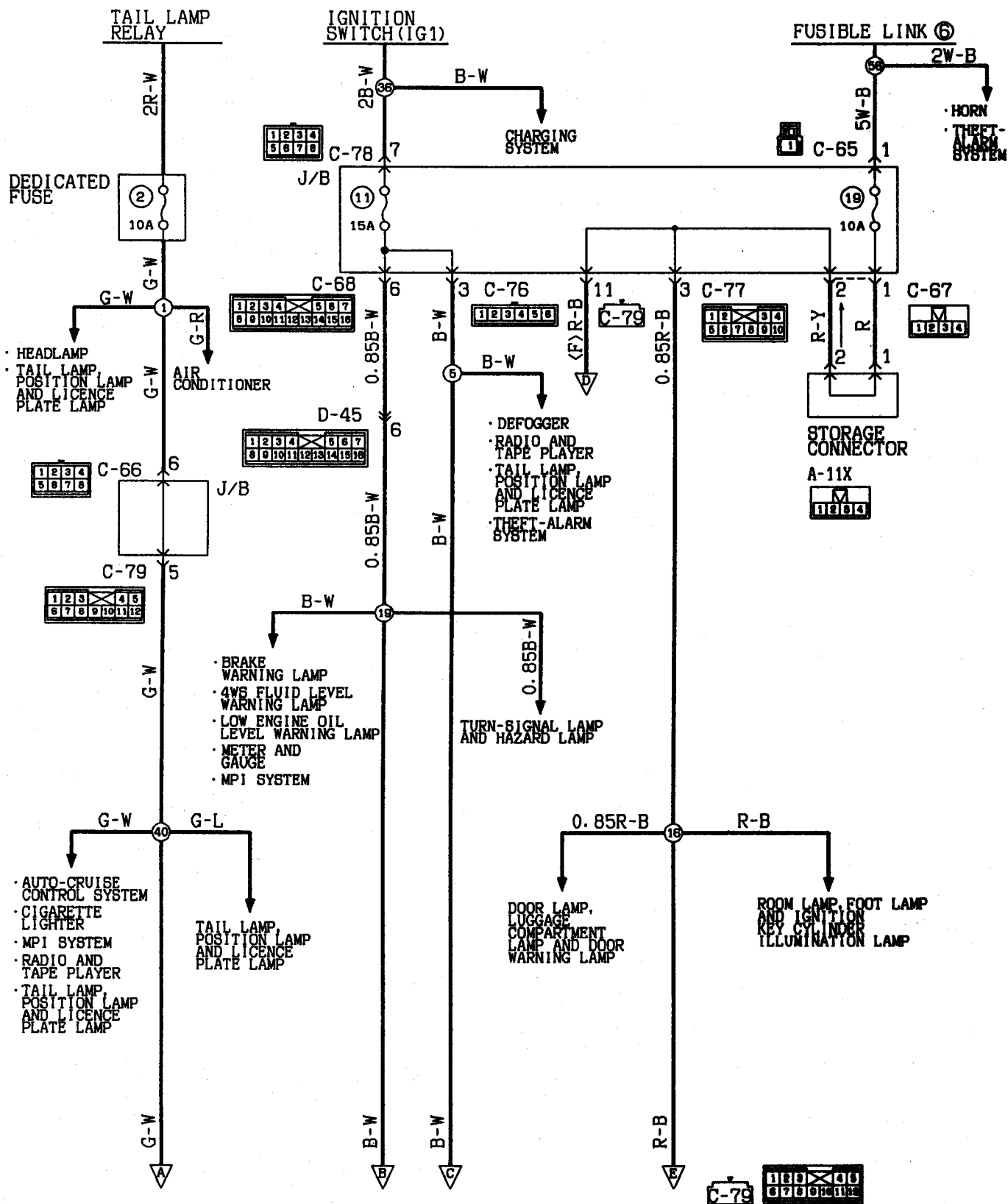
Wire colour code

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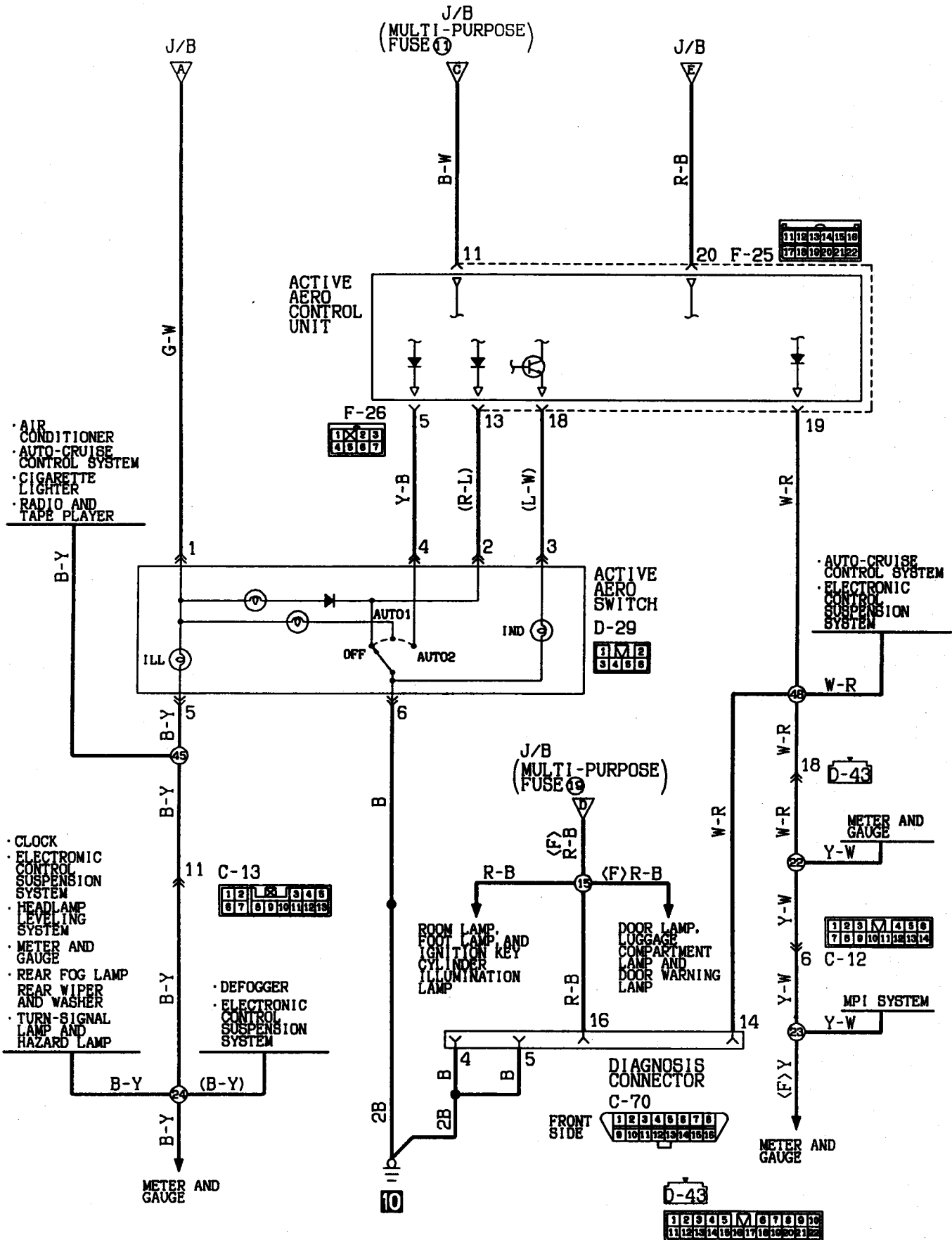


ACTIVE AERO SYSTEM

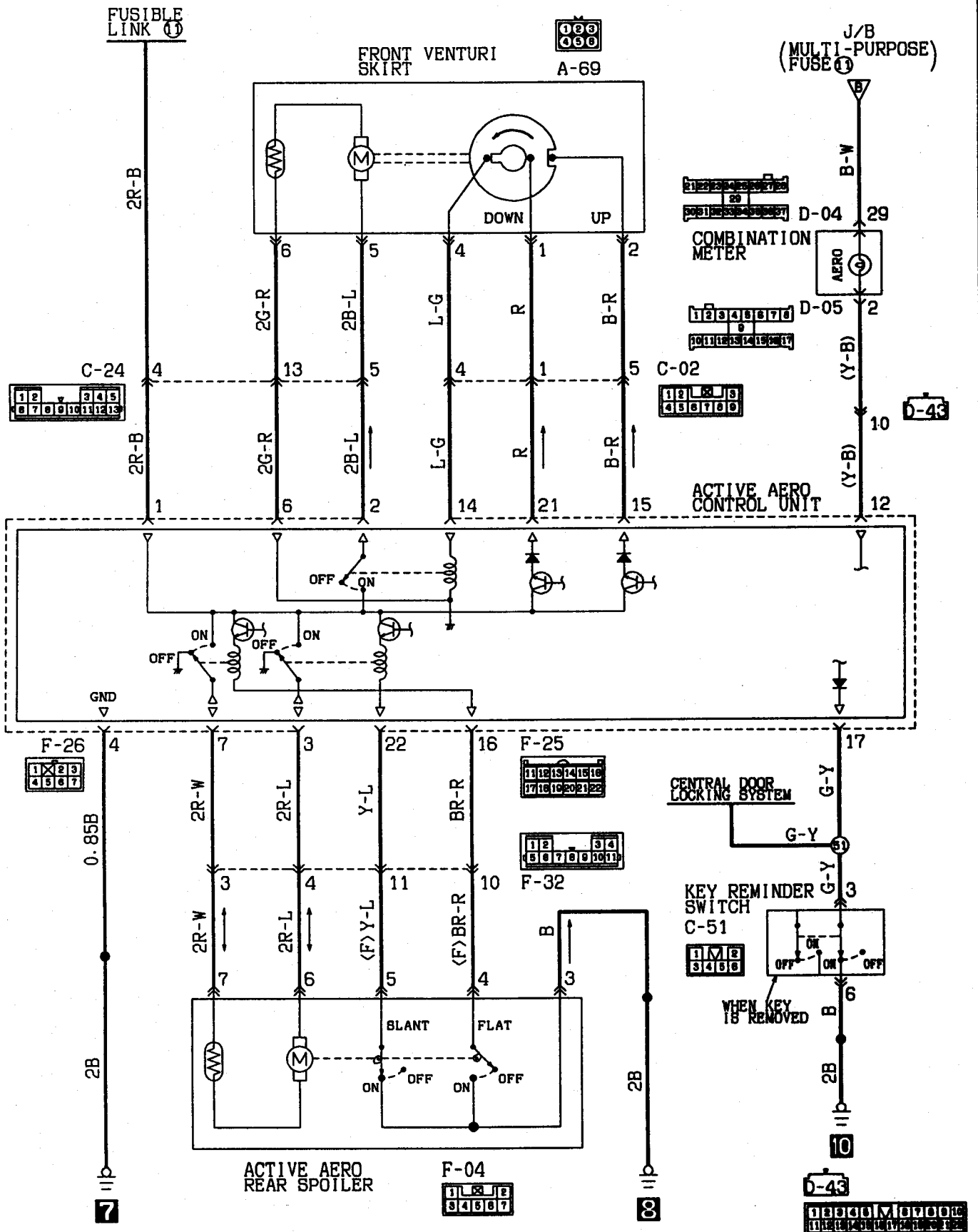
L.H. drive vehicles without theft-alarm system



Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

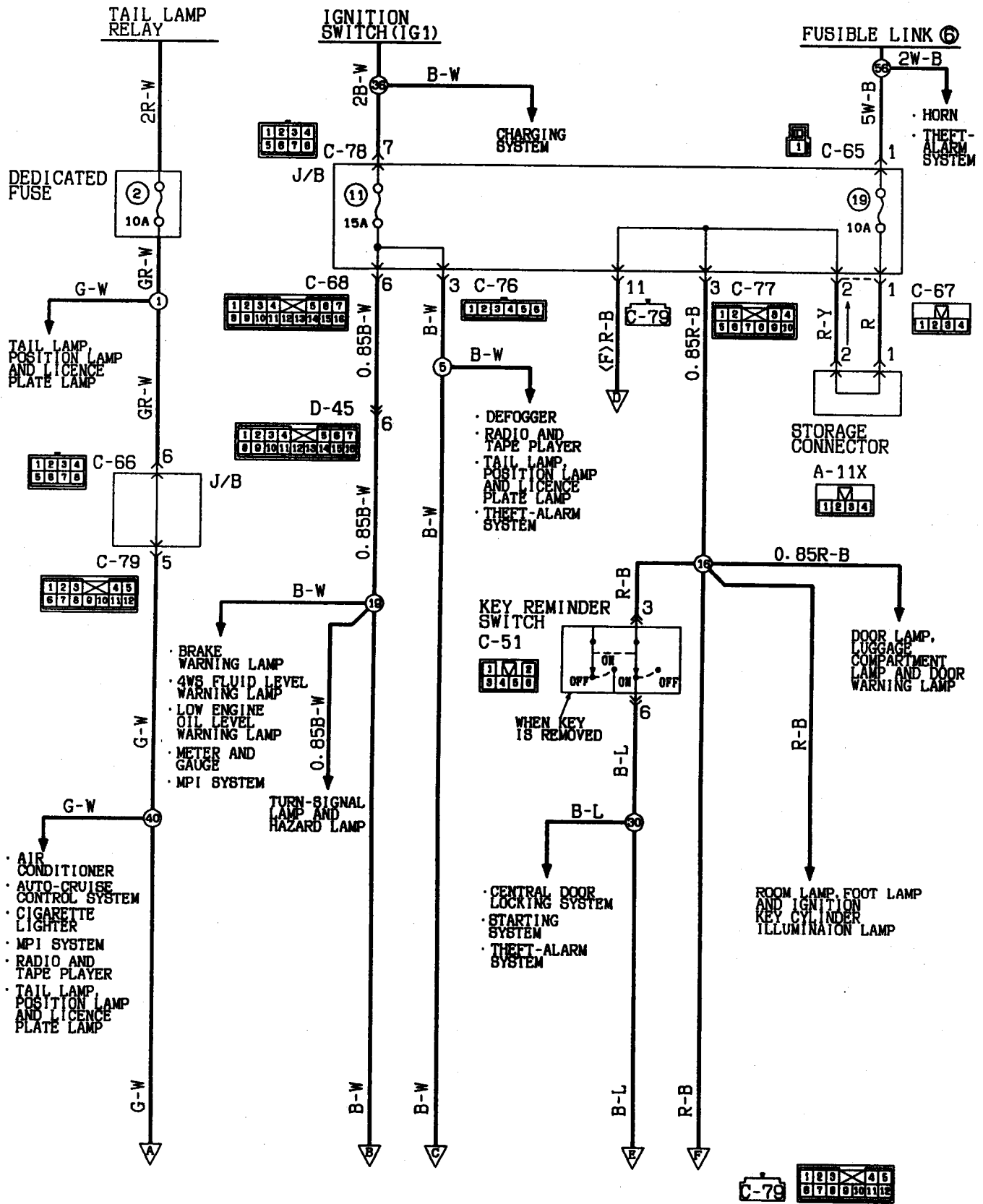


Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



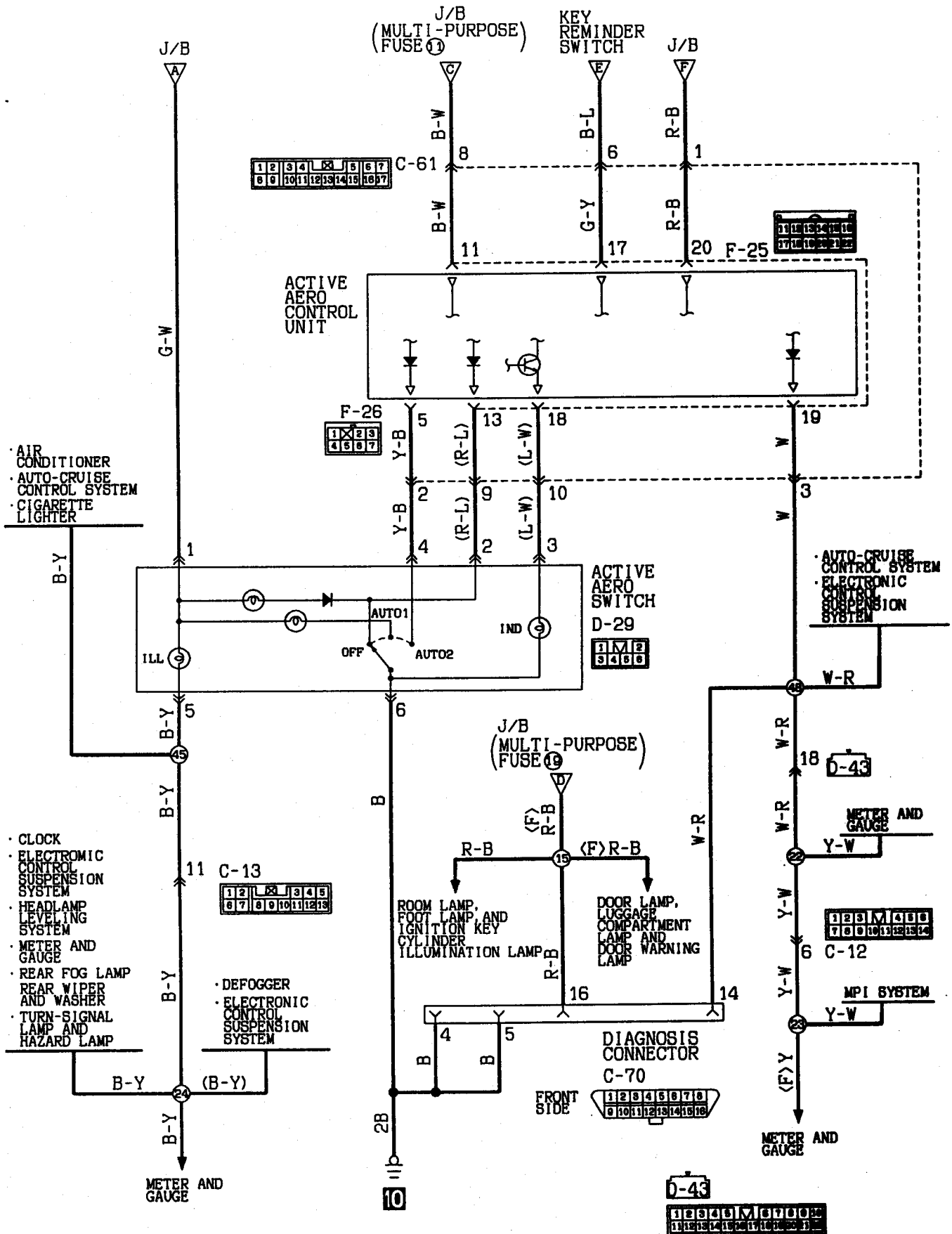
ACTIVE AERO SYSTEM

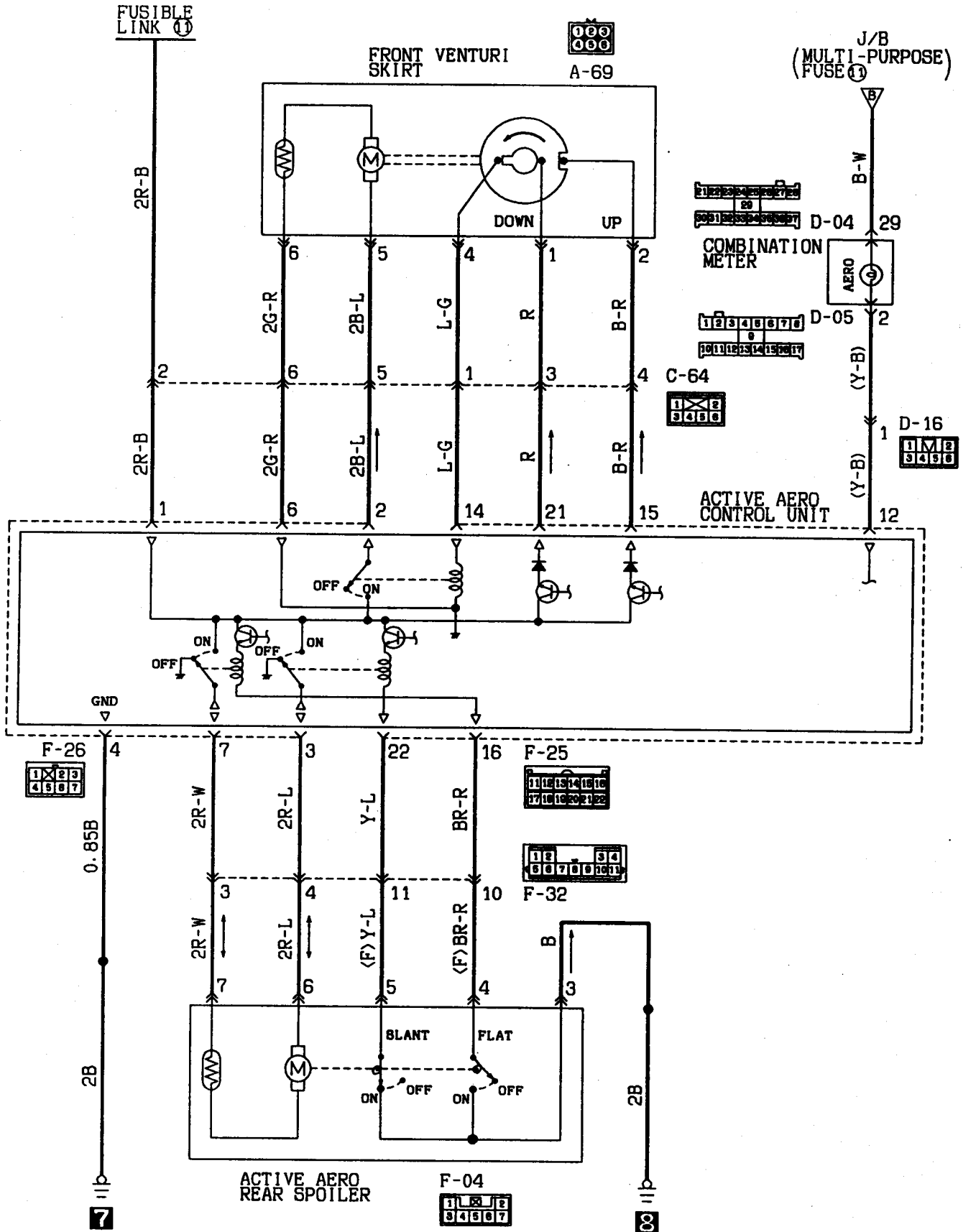
R. H. drive vehicles with theft-alarm system



Wire colour code

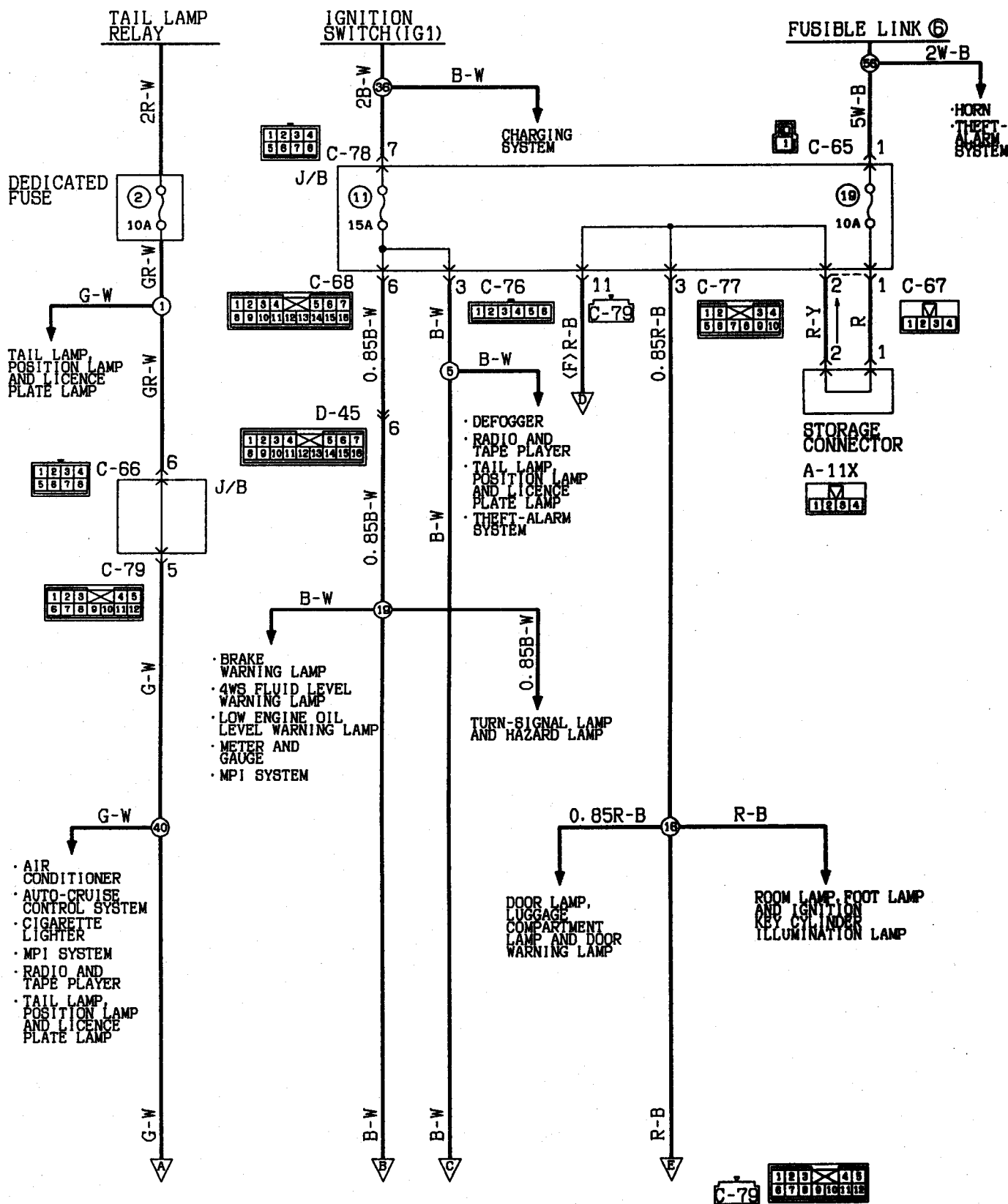
B:Black LG:Light green G:Green L:Blue W:White Y:Yellow SB:Sky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



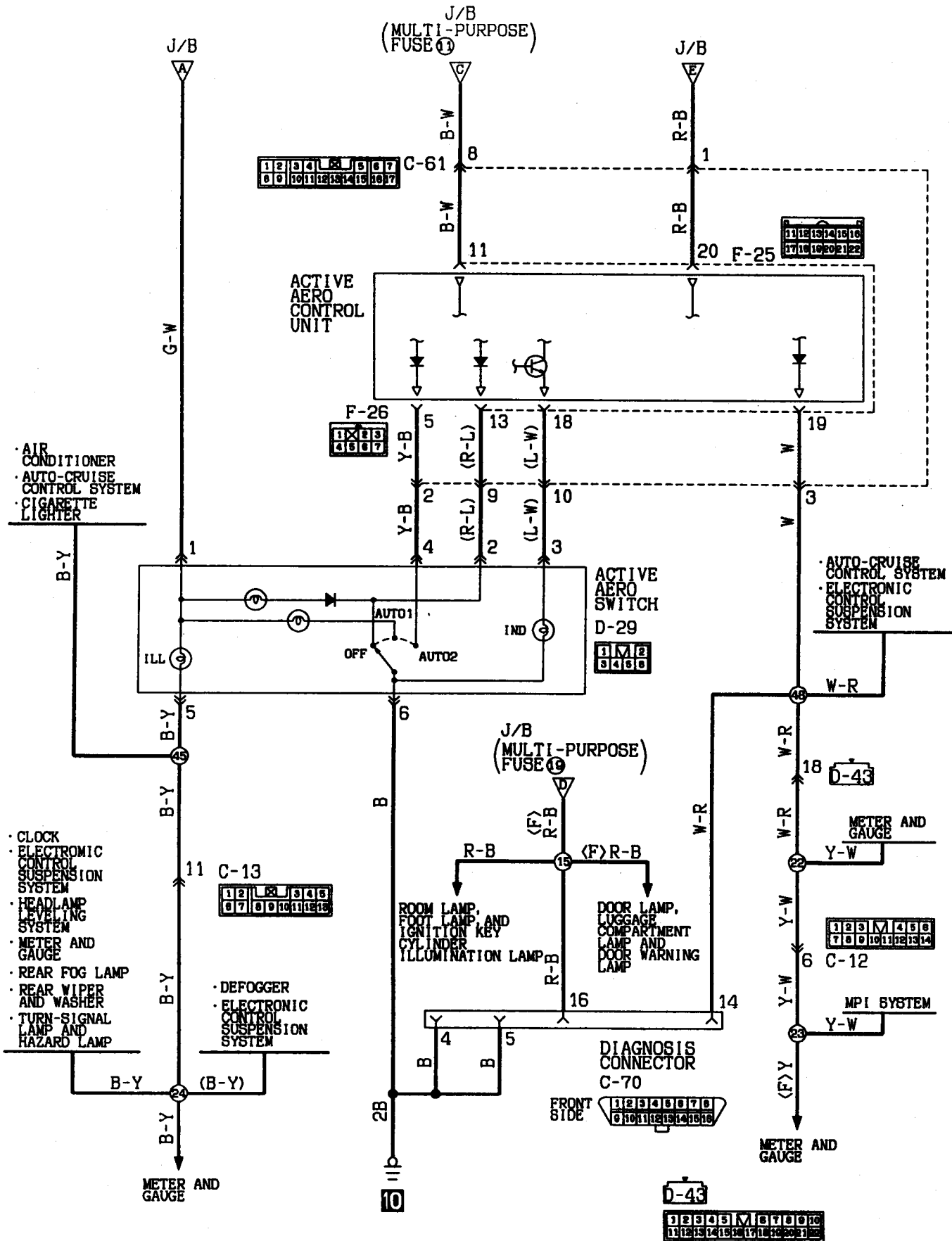


ACTIVE AERO SYSTEM

R. H. drive vehicles without theft-alarm system

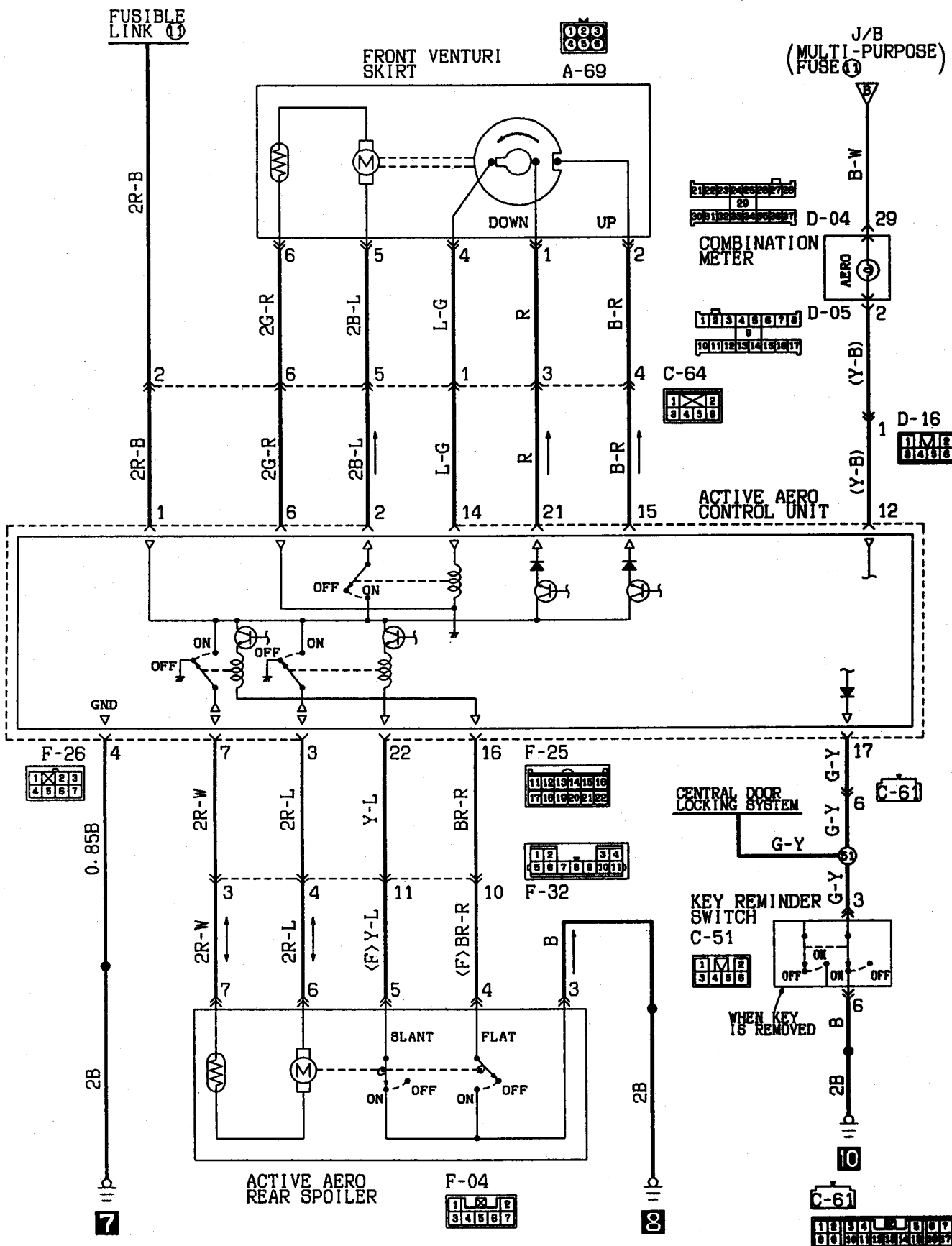


Wire colour code
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 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet



Wire colour code

B: Black LG: Light green G: Green L: Blue W: White Y: Yellow BB: Sky blue
 BR: Brown O: Orange GR: Gray R: Red P: Pink V: Violet

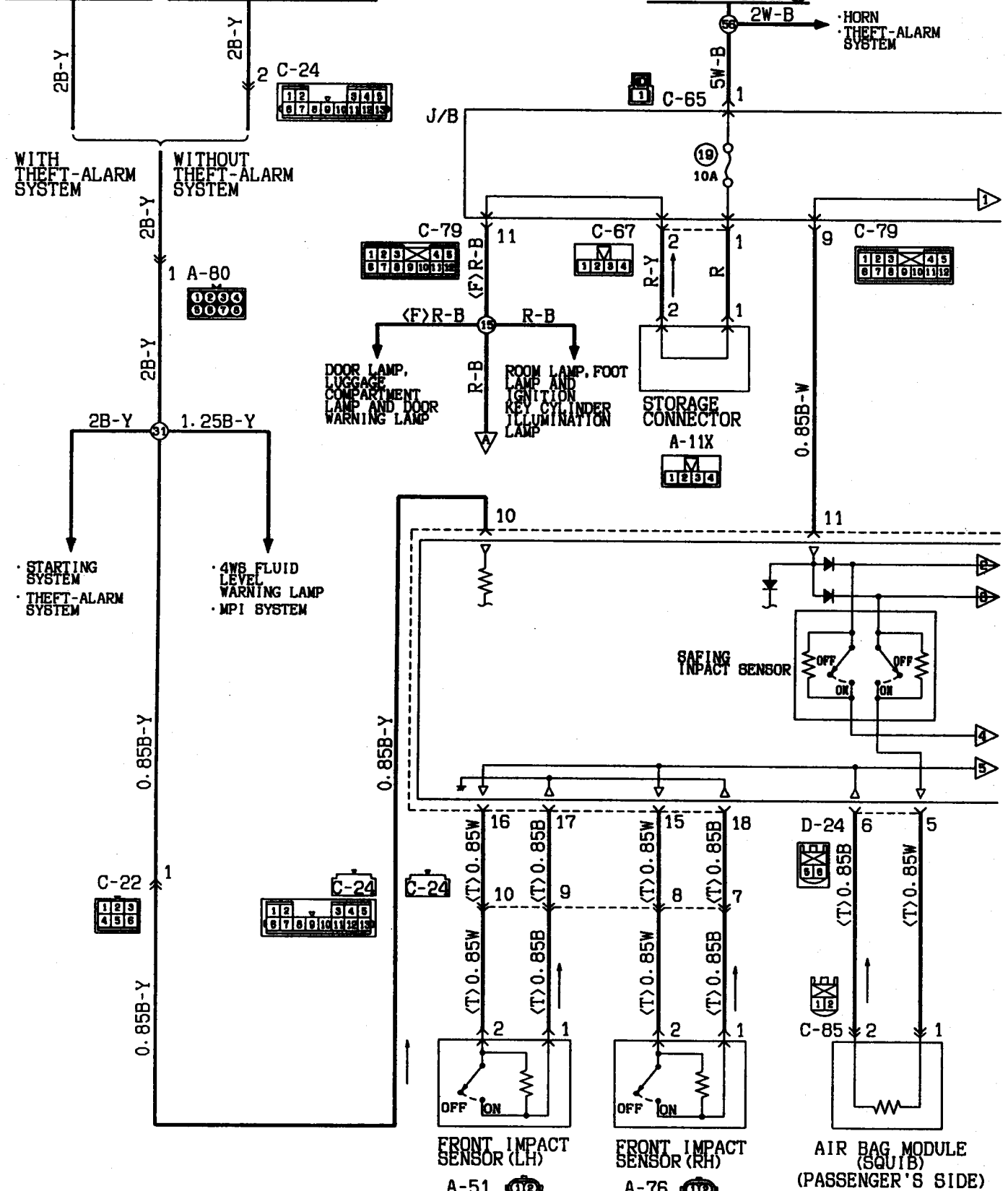


SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

L.H. drive vehicles

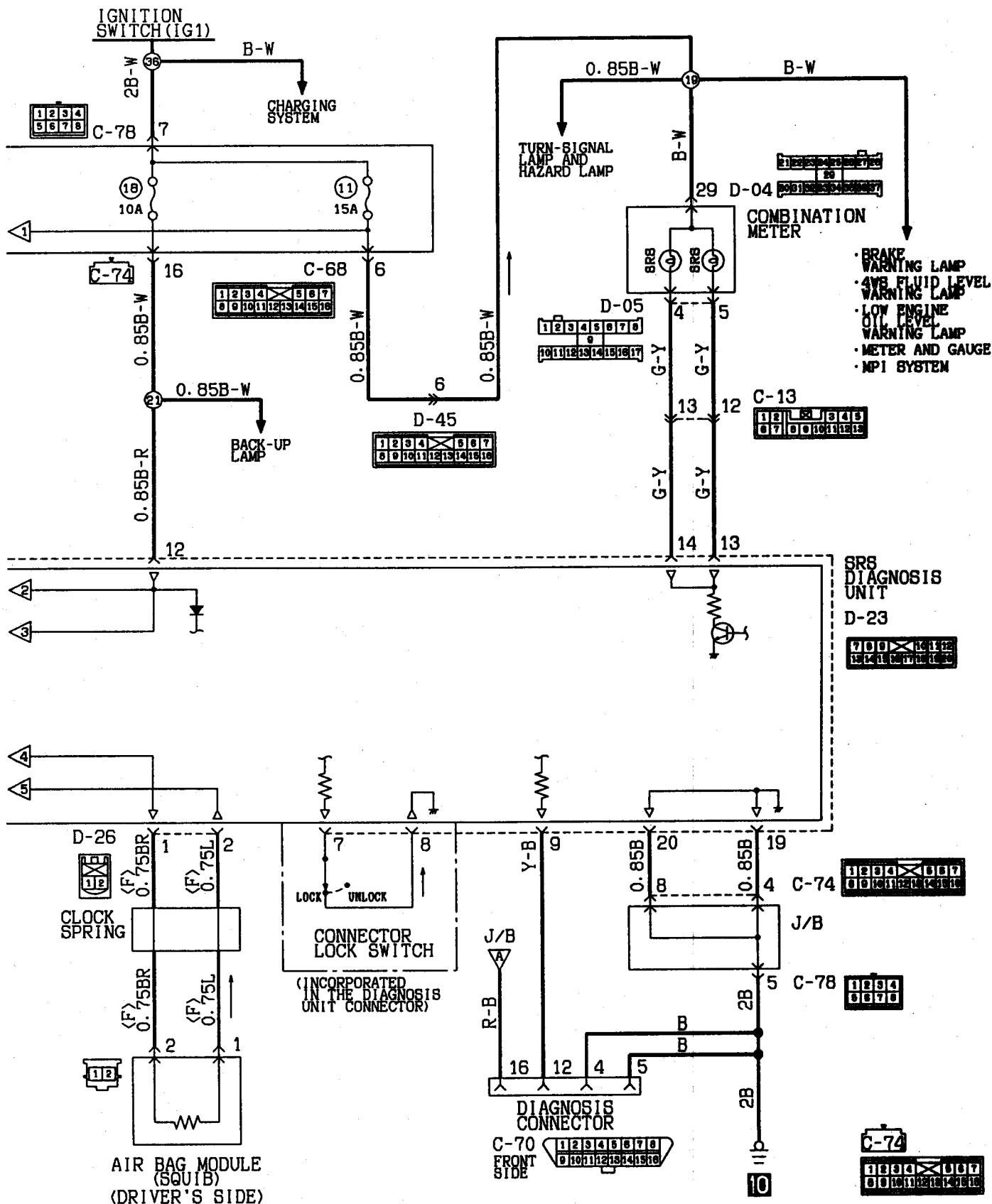
STARTER RELAY

IGNITION SWITCH (ST)



Wire colour code

B:Black LG:Light green G:Green L:Blue W:White Y:Yellow
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet 8B:Sky blue

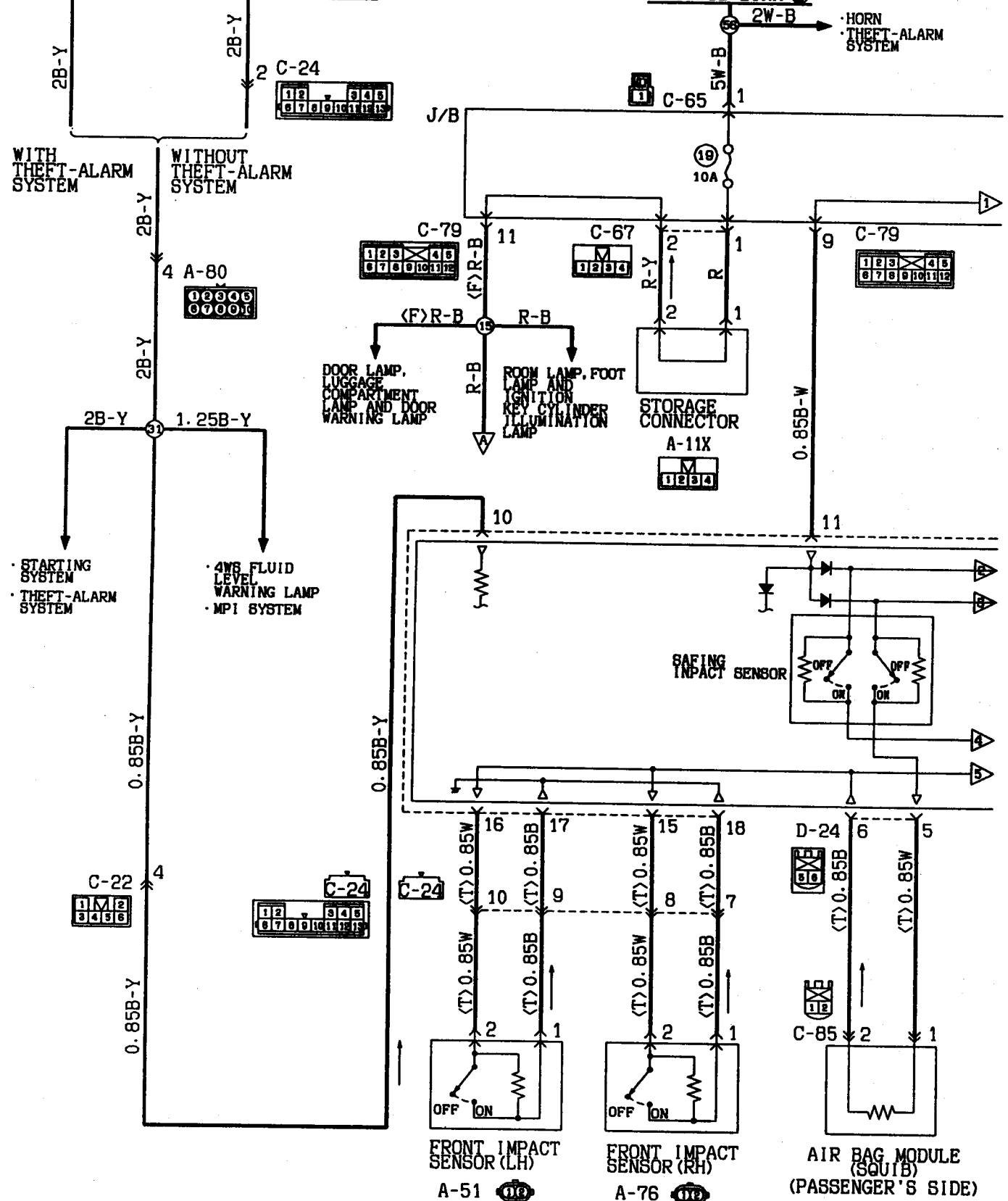


CAUTION
 Carefully read and observe the SRS SERVICE PRECAUTIONS (Refer to WORKSHOP MANUAL (Pub. No. PWUE9119) SRS Service Precautions) prior to any service.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

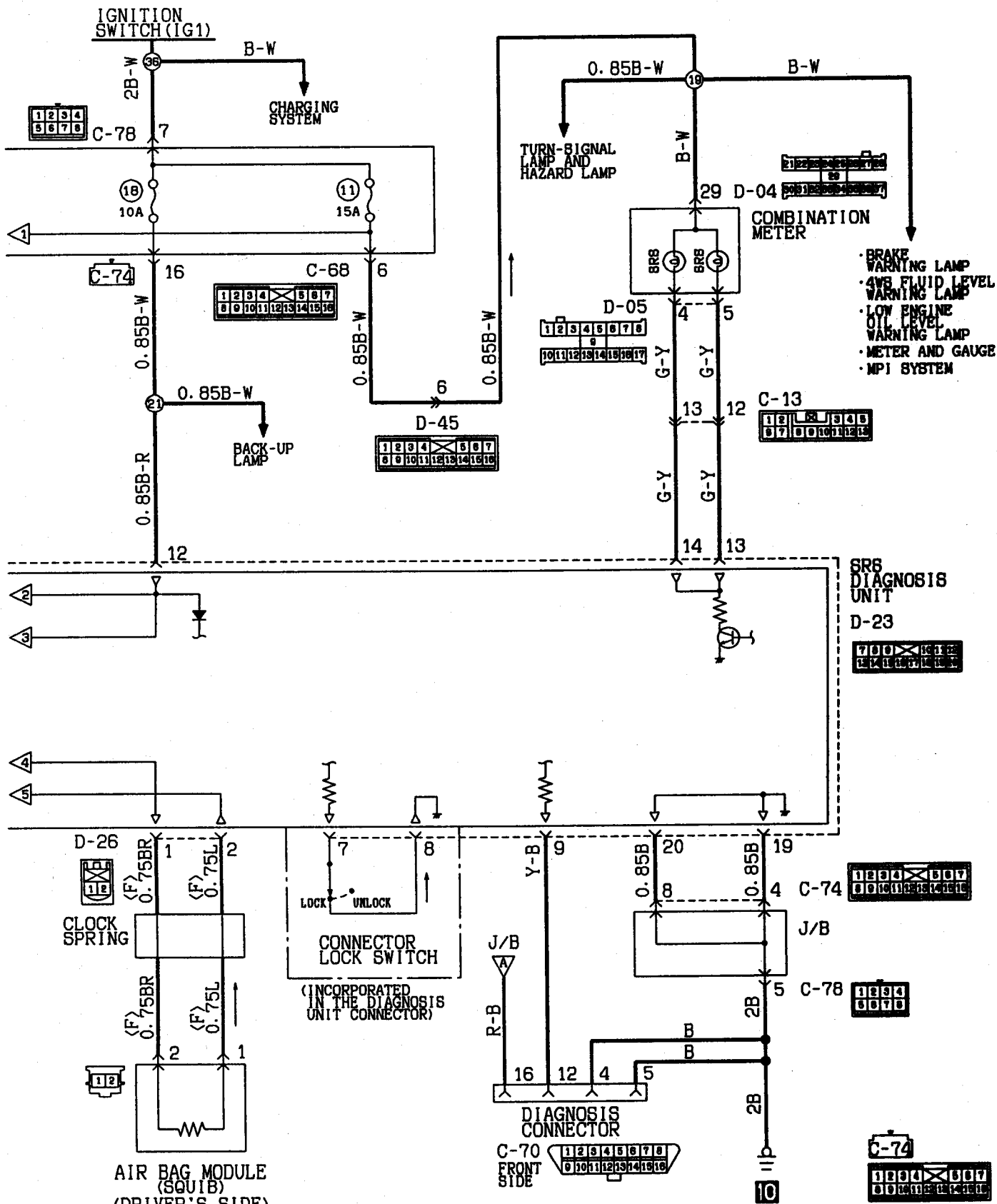
R. H. drive vehicles

STARTER RELAY IGNITION SWITCH (ST)



Wire colour code

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



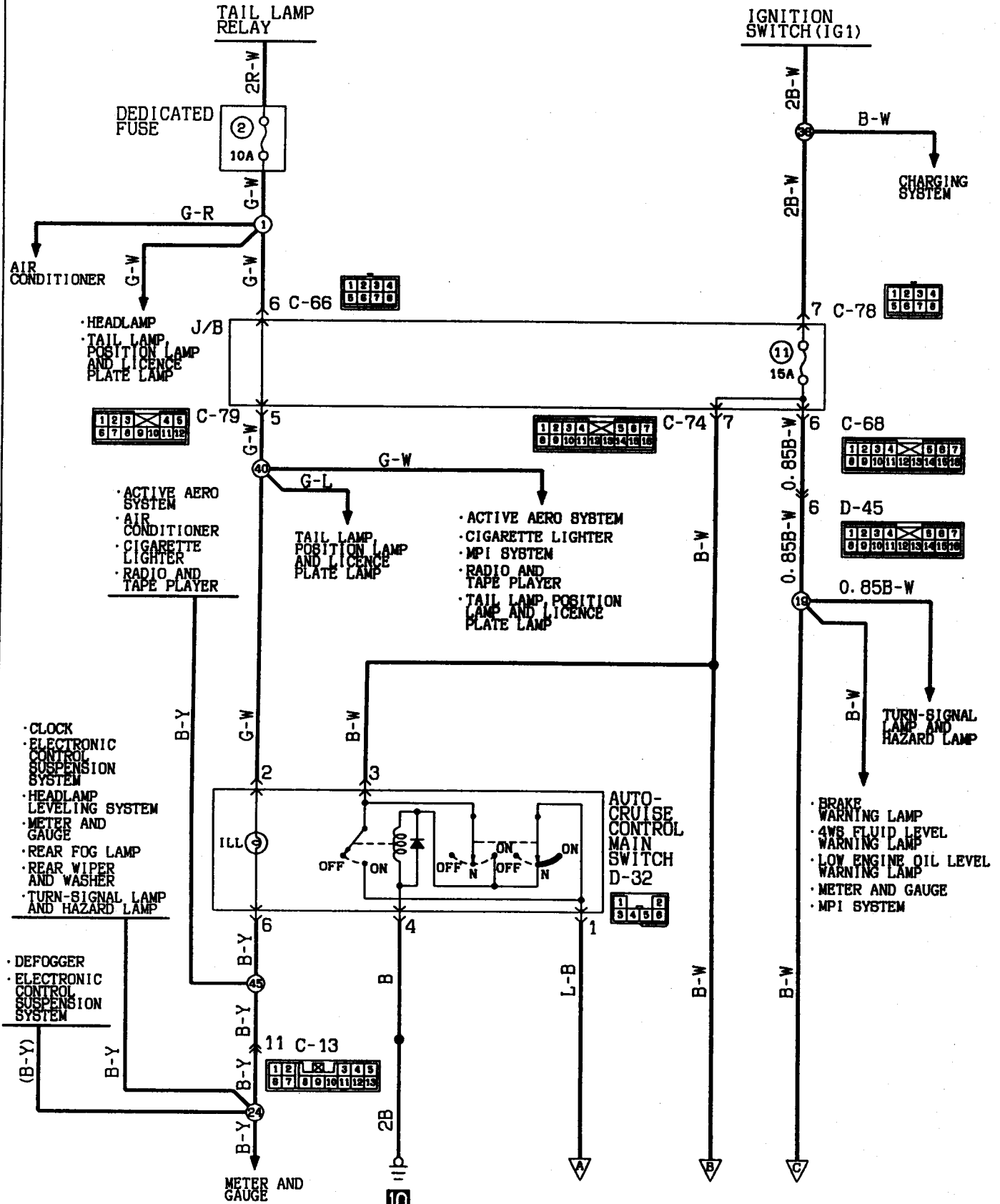
- BRAKE WARNING LAMP
- 4WS FLUID LEVEL WARNING LAMP
- LOW ENGINE OIL LEVEL WARNING LAMP
- METER AND GAUGE
- MPI SYSTEM

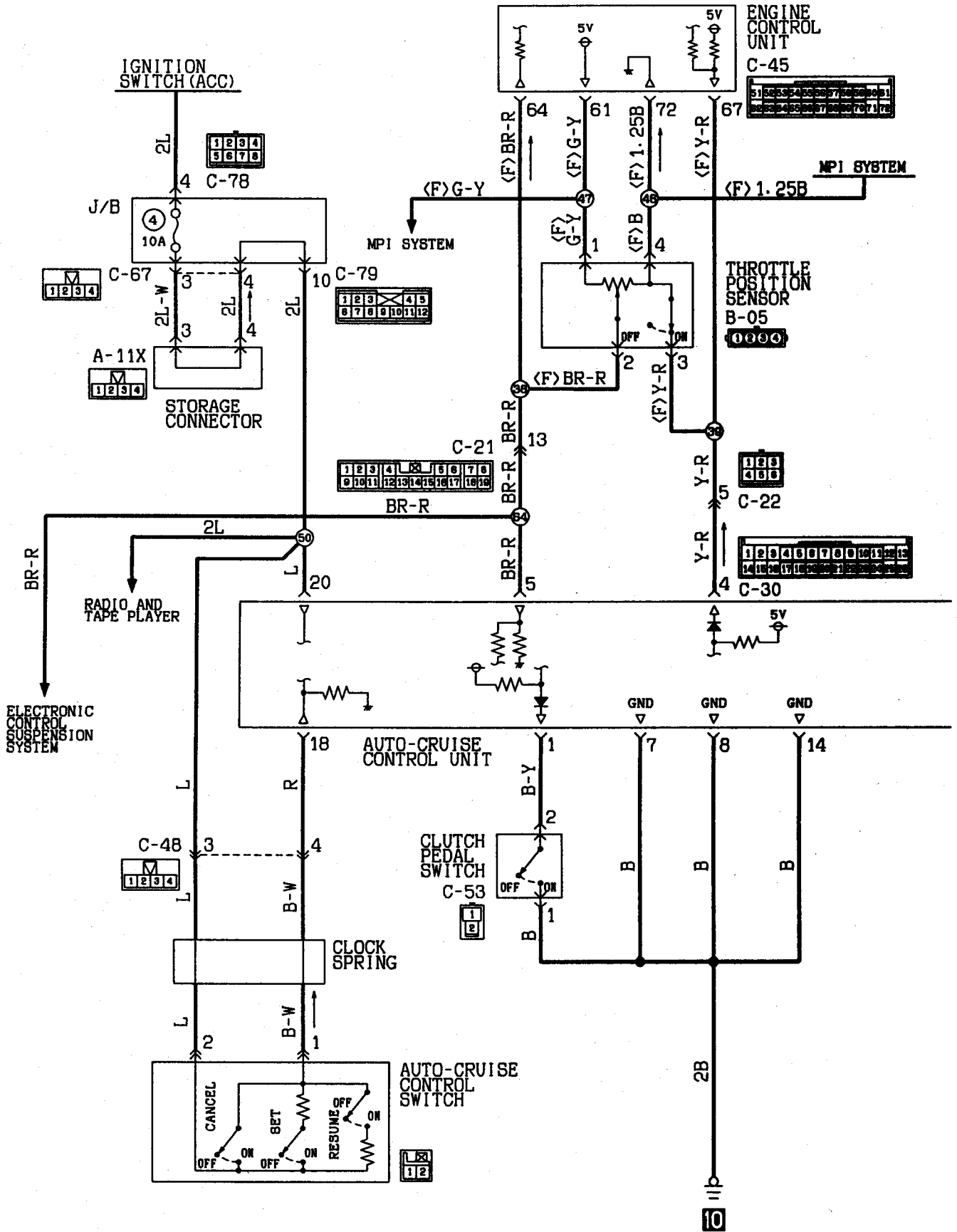
SRS DIAGNOSIS UNIT
D-23

CAUTION
Carefully read and observe the SRS SERVICE PRECAUTIONS (Refer to WORKSHOP MANUAL (Pub. No. PWUE9119) SRS Service Precautions) prior to any service.

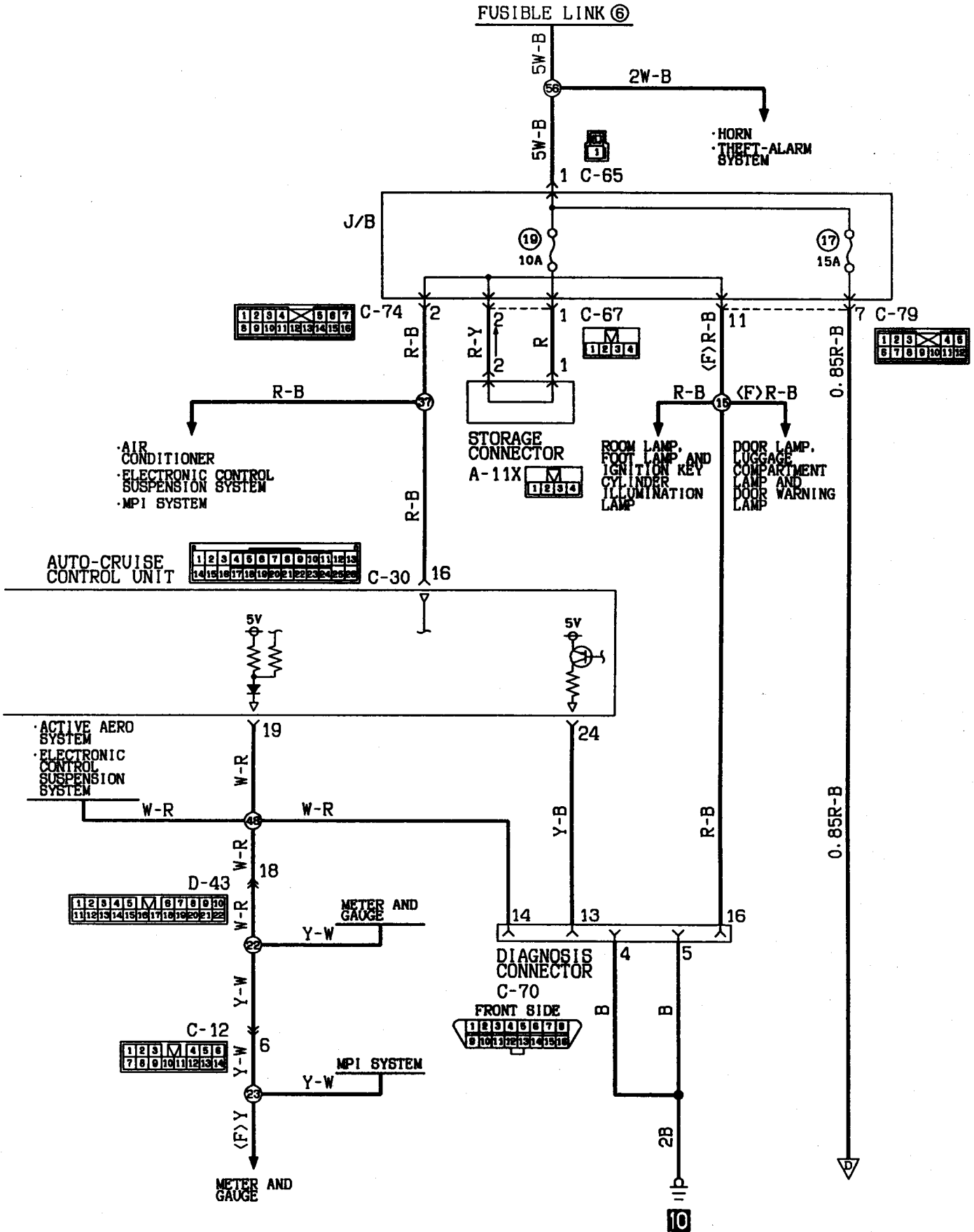
AUTO-CRUISE CONTROL SYSTEM

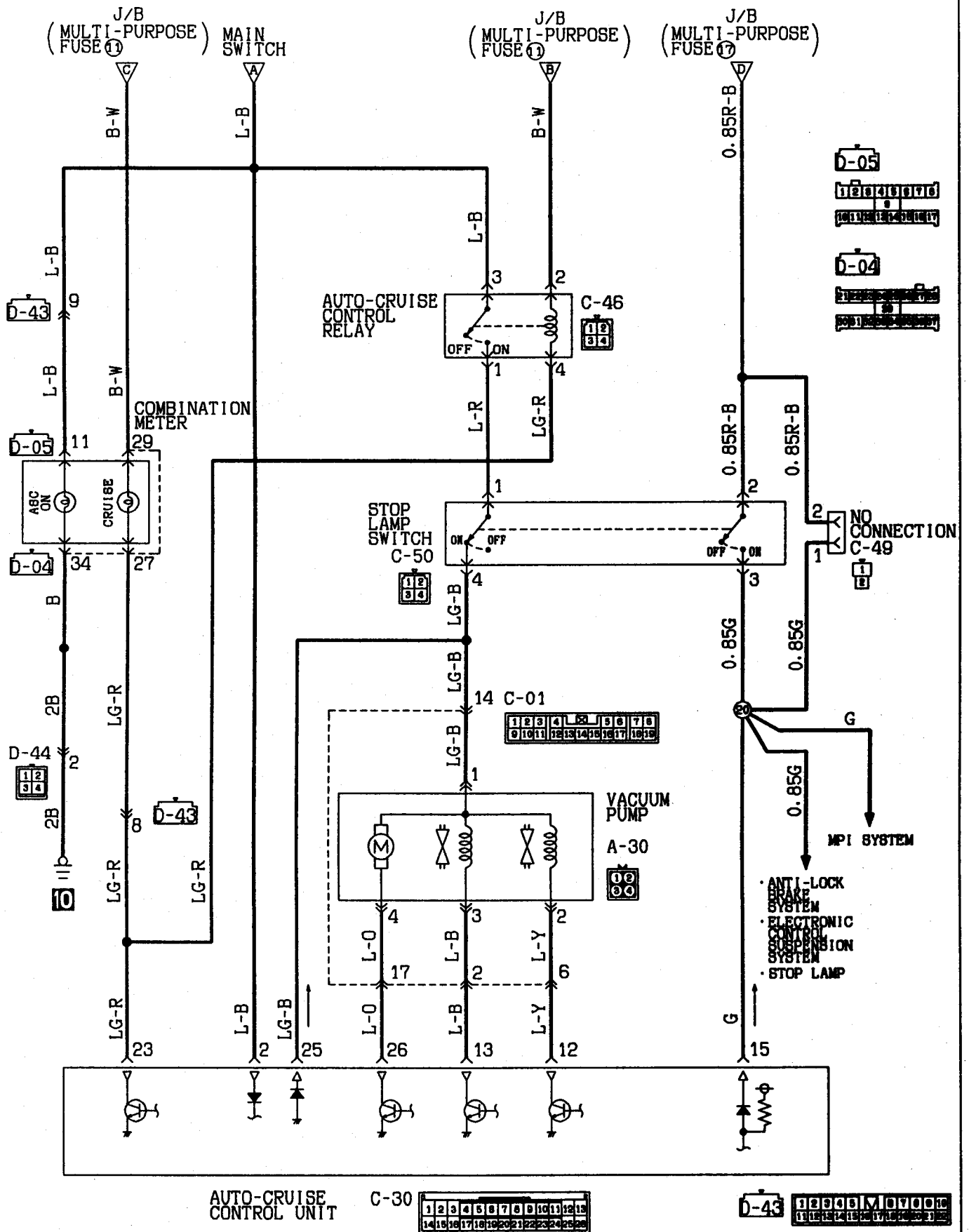
L.H. drive vehicles





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

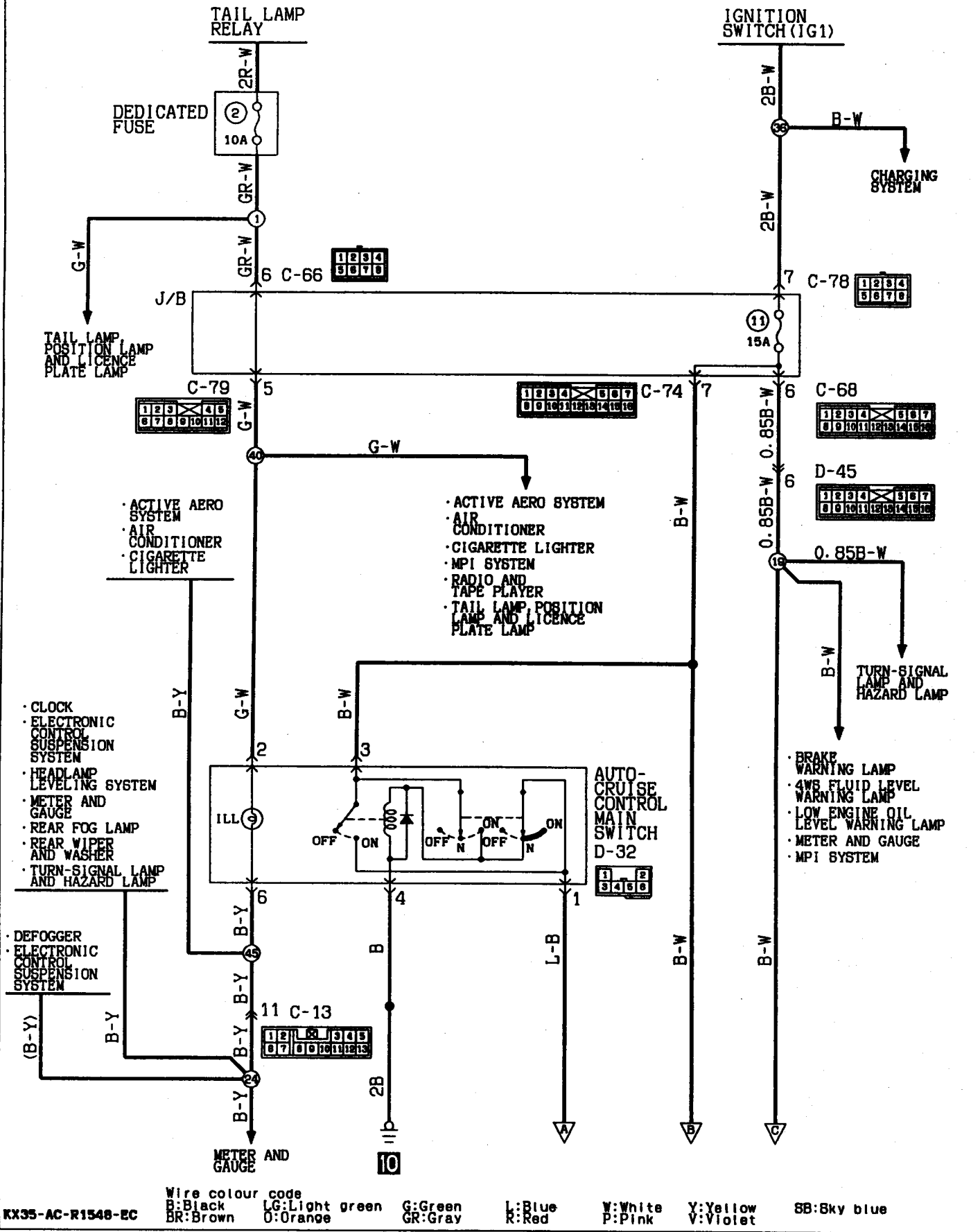


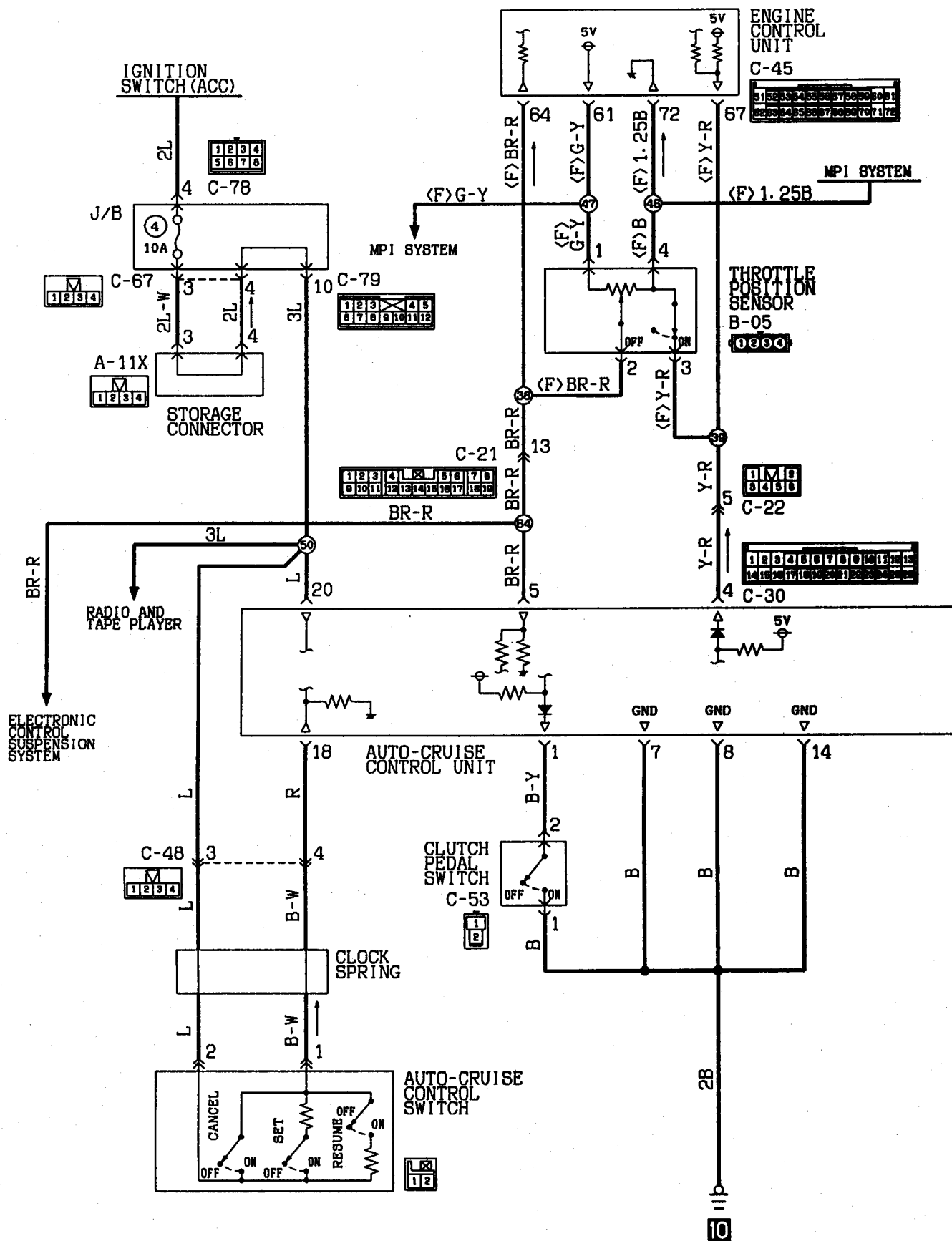


Wire colour code
 B:Black LG:Light green G:Green L:Blue W:White Y:Yellow 6B:8ky blue
 BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

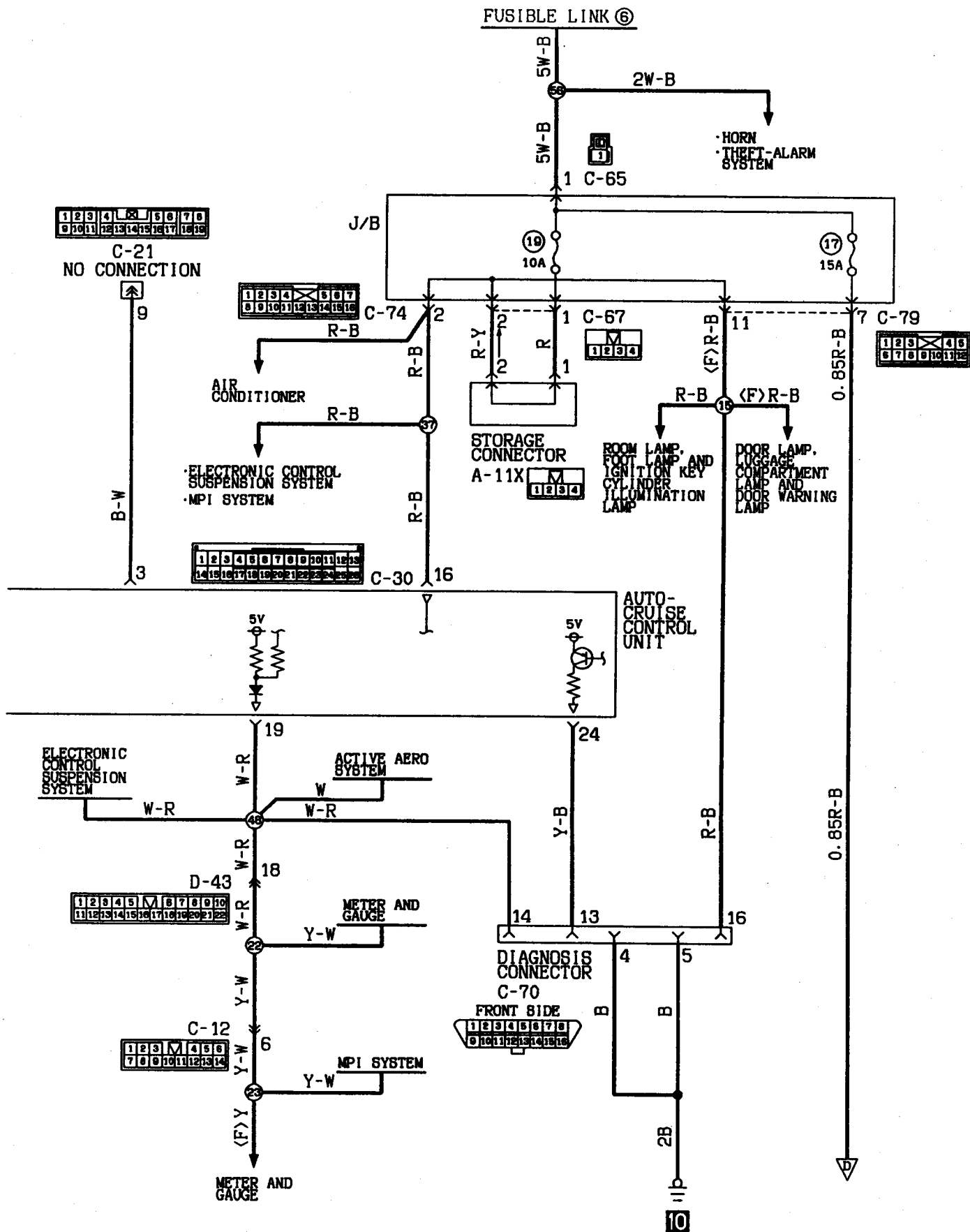
AUTO-CRUISE CONTROL SYSTEM

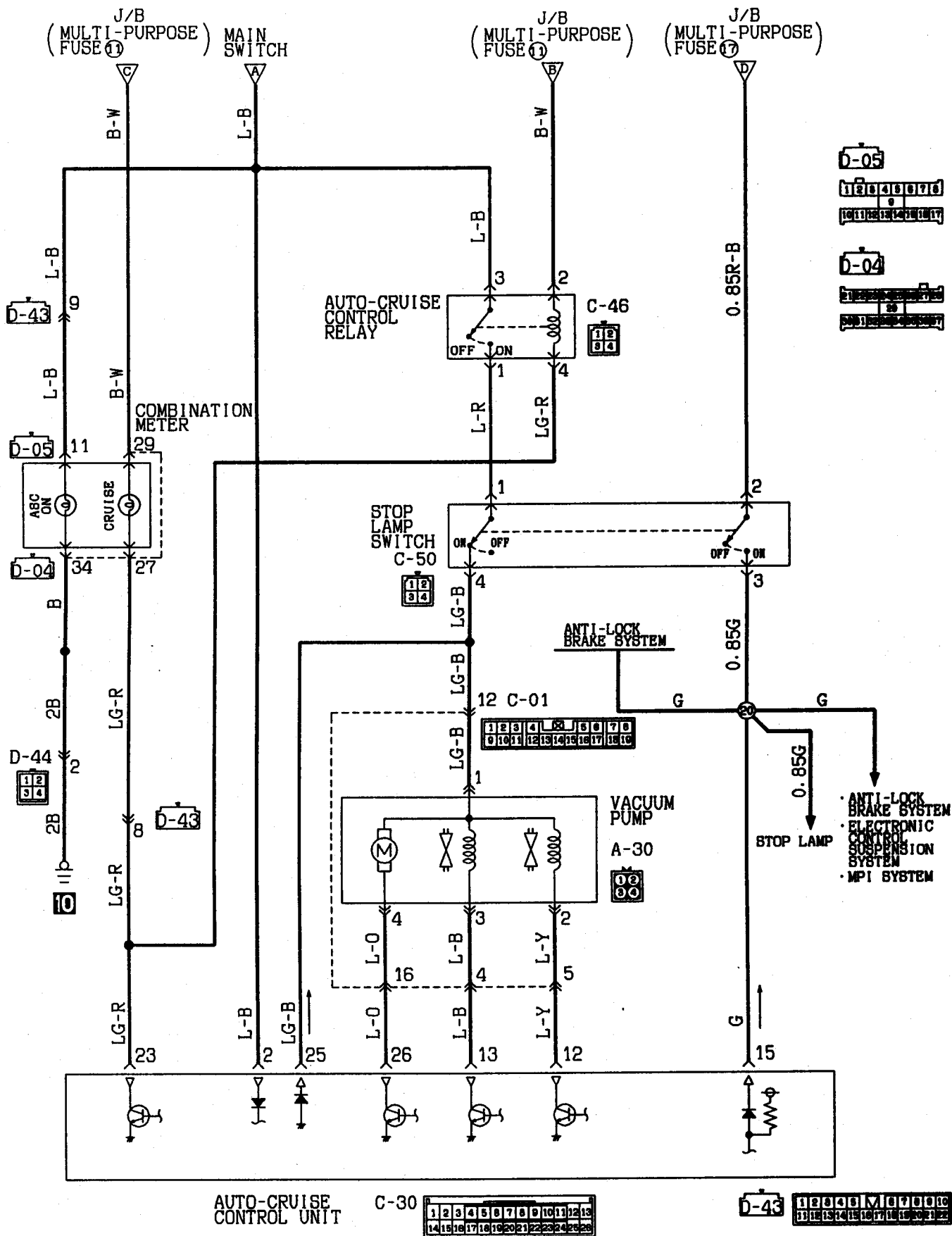
R. H. drive vehicles





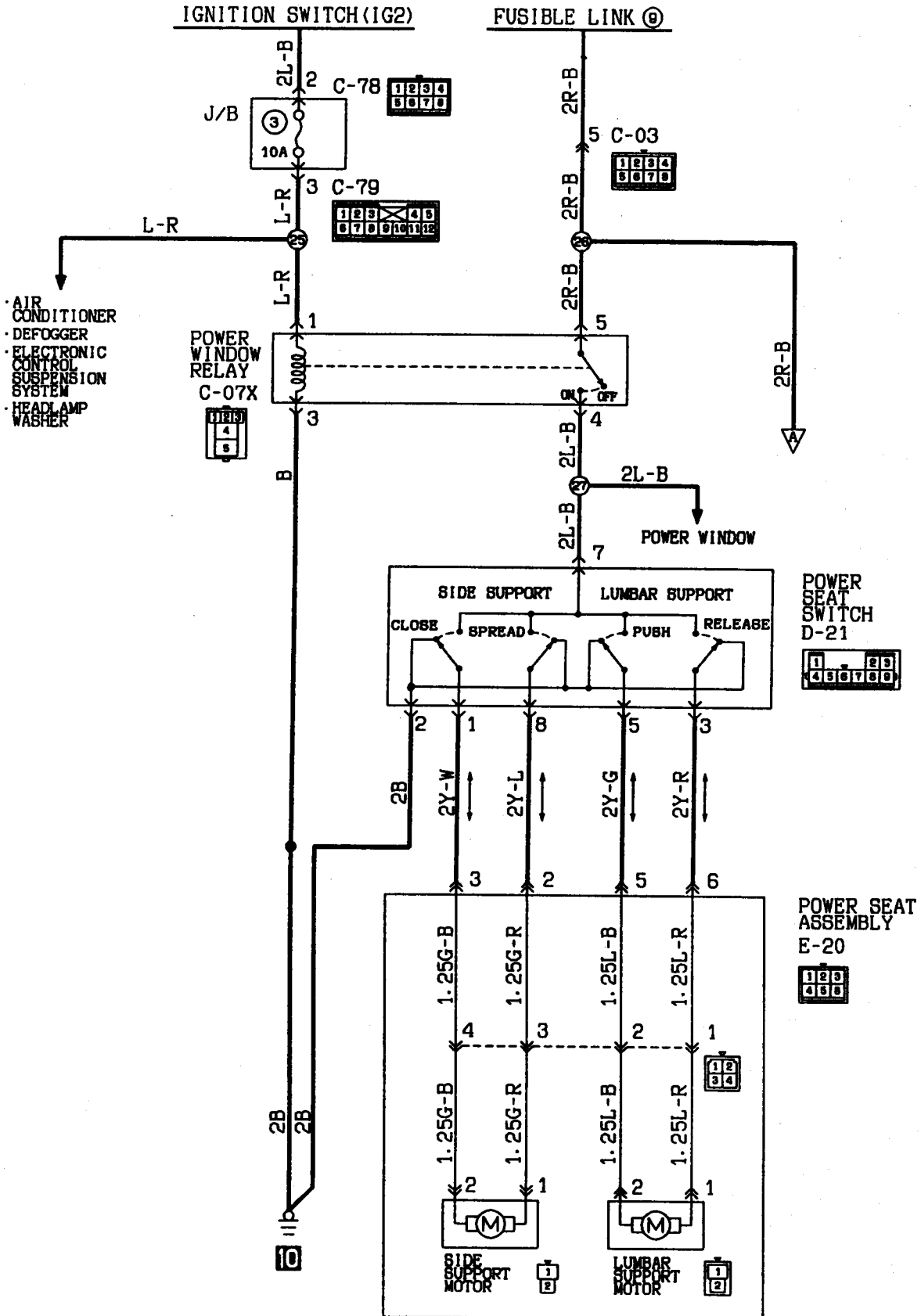
Wire colour code
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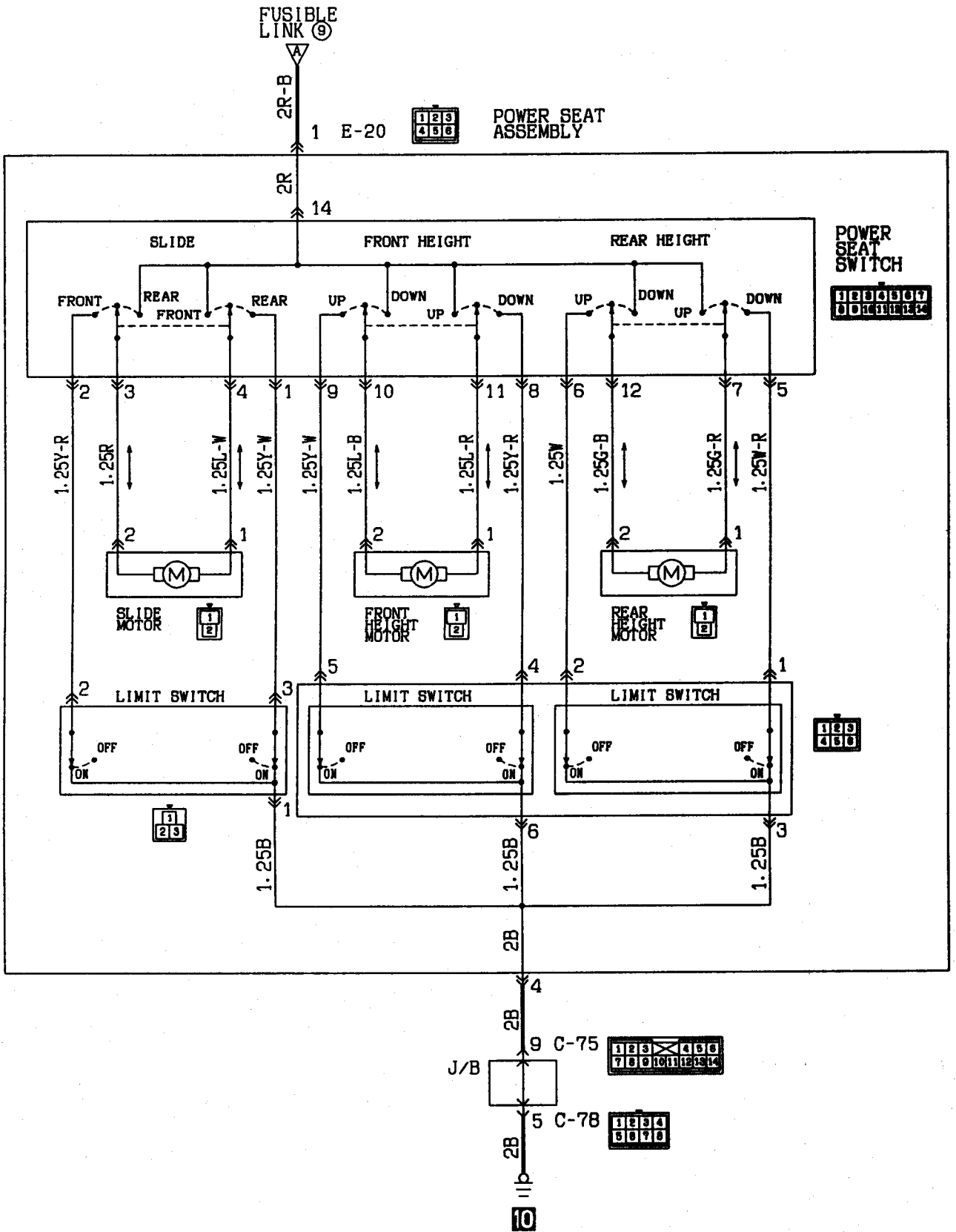




Wire colour code
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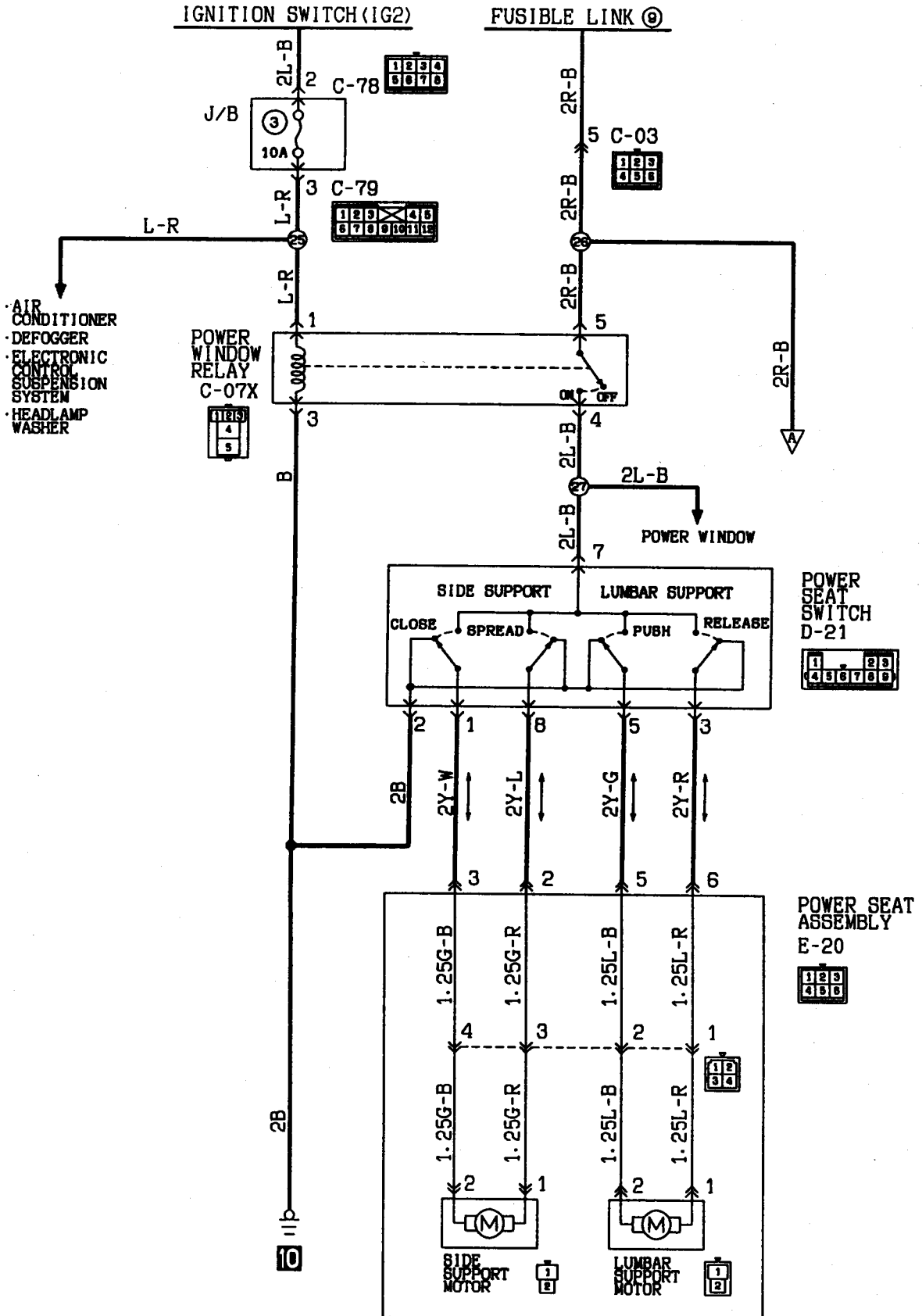
POWER SEAT
L. H. drive vehicles

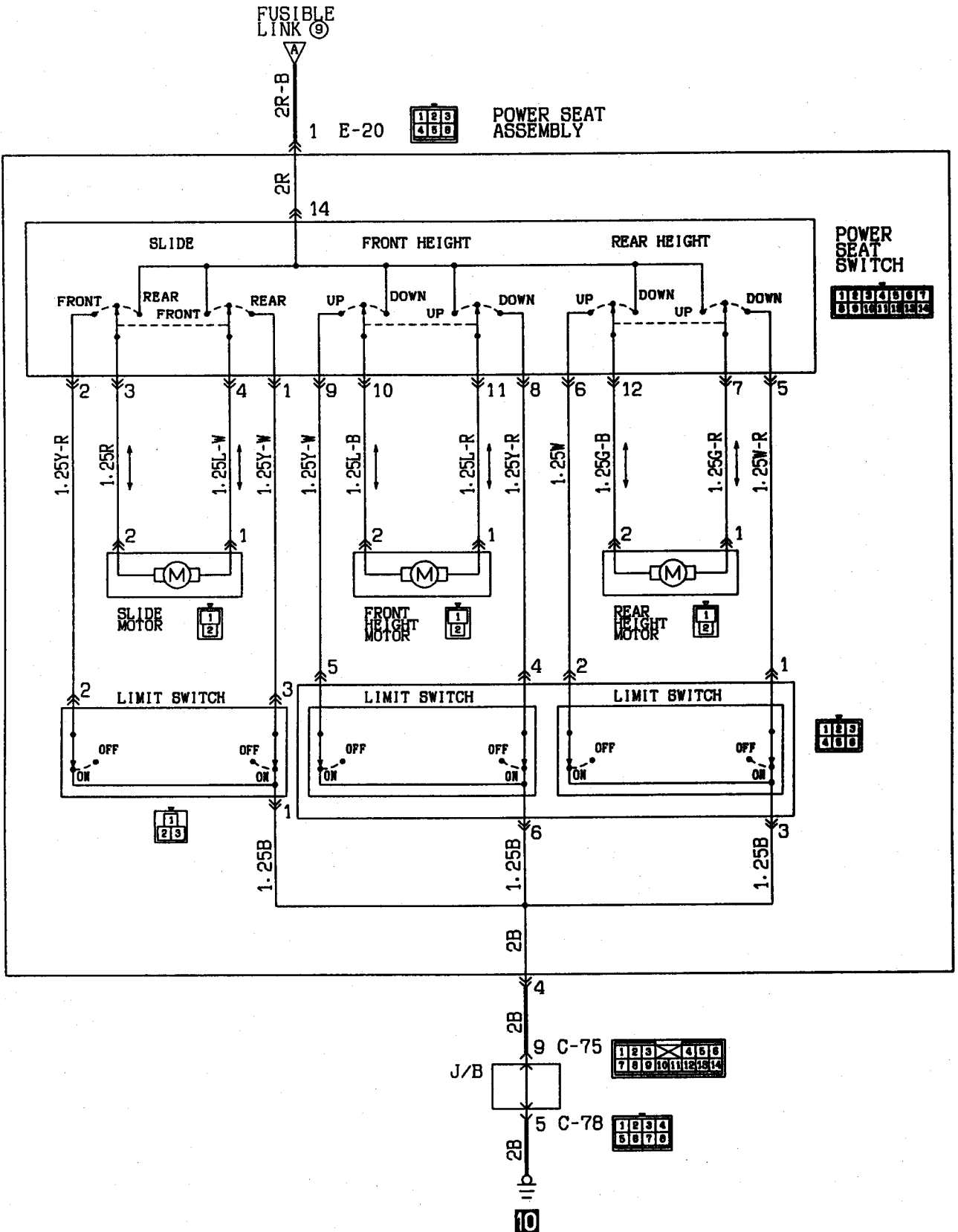




Wire colour code
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POWER SEAT
R.H. drive vehicles

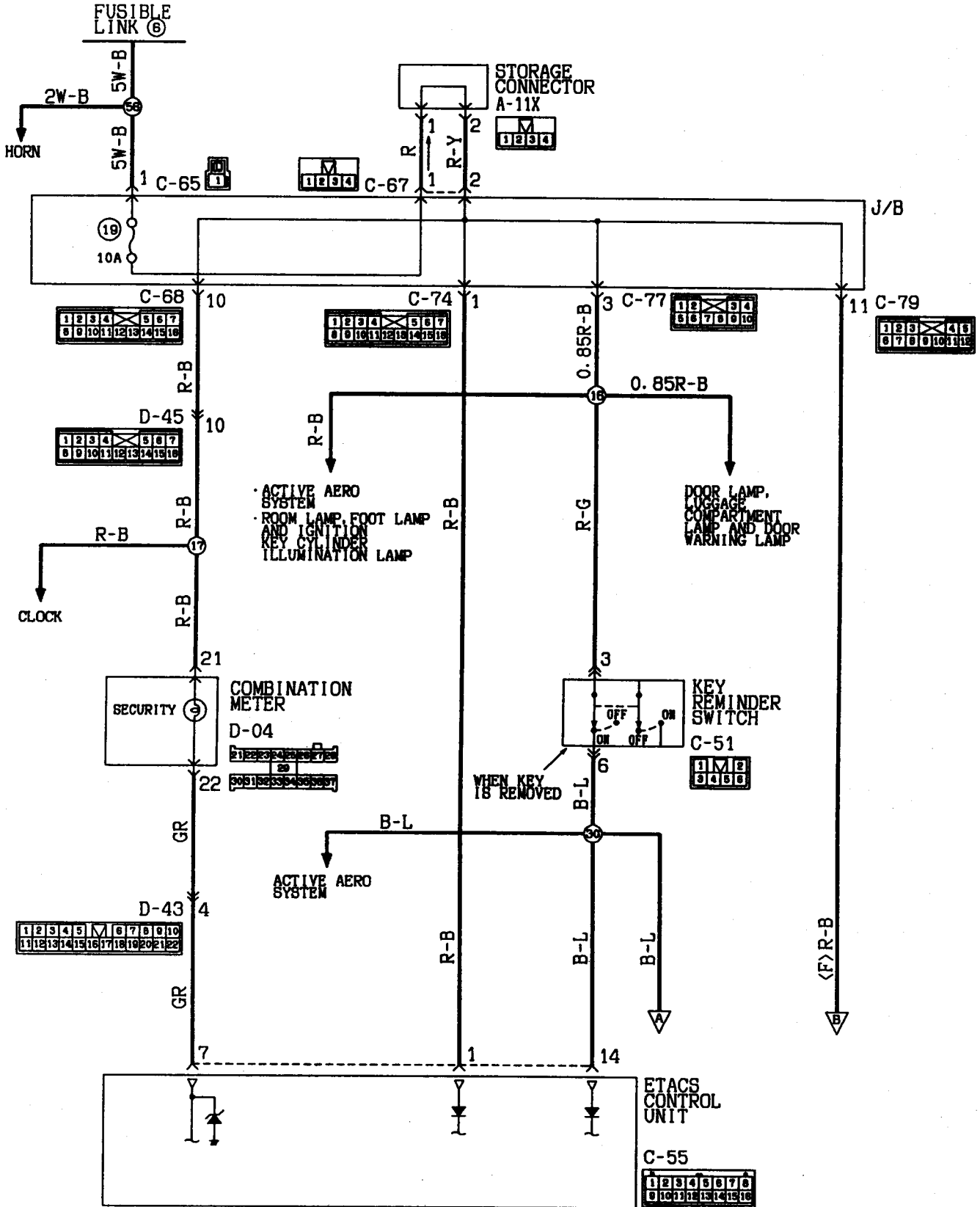




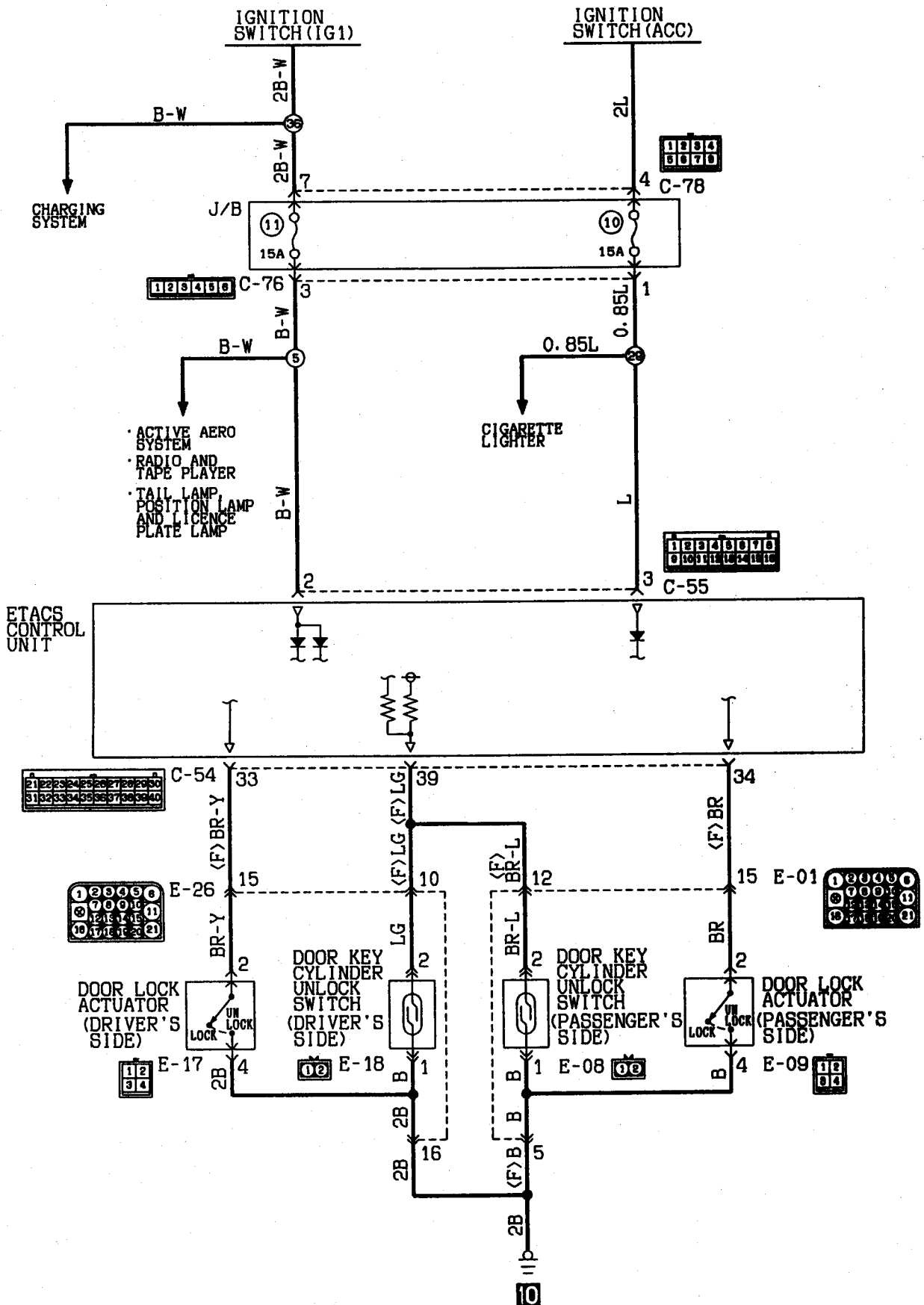
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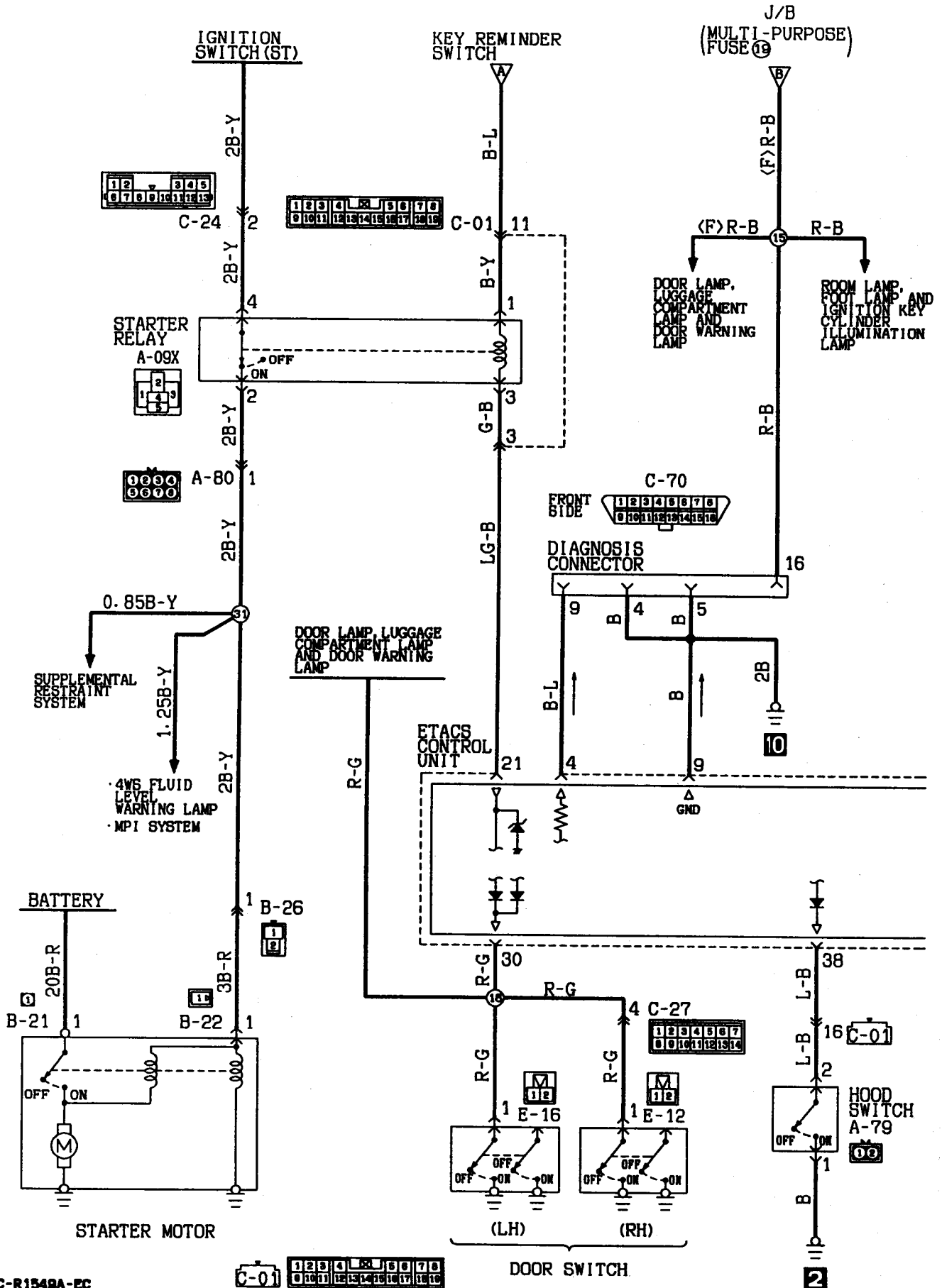
THEFT-ALARM SYSTEM

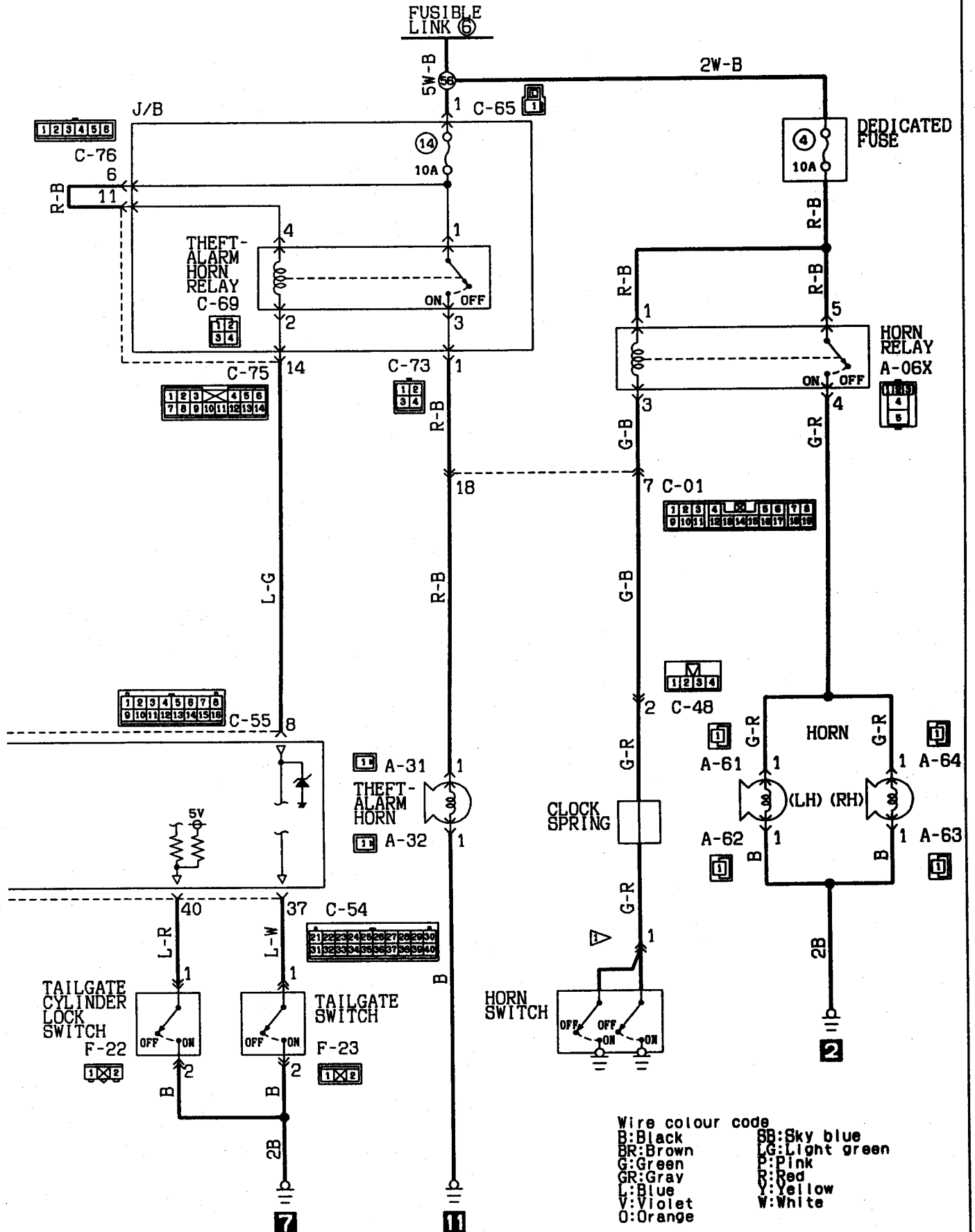
L. H. drive vehicles



KX35-AC-R1549-EC
 Wire colour code
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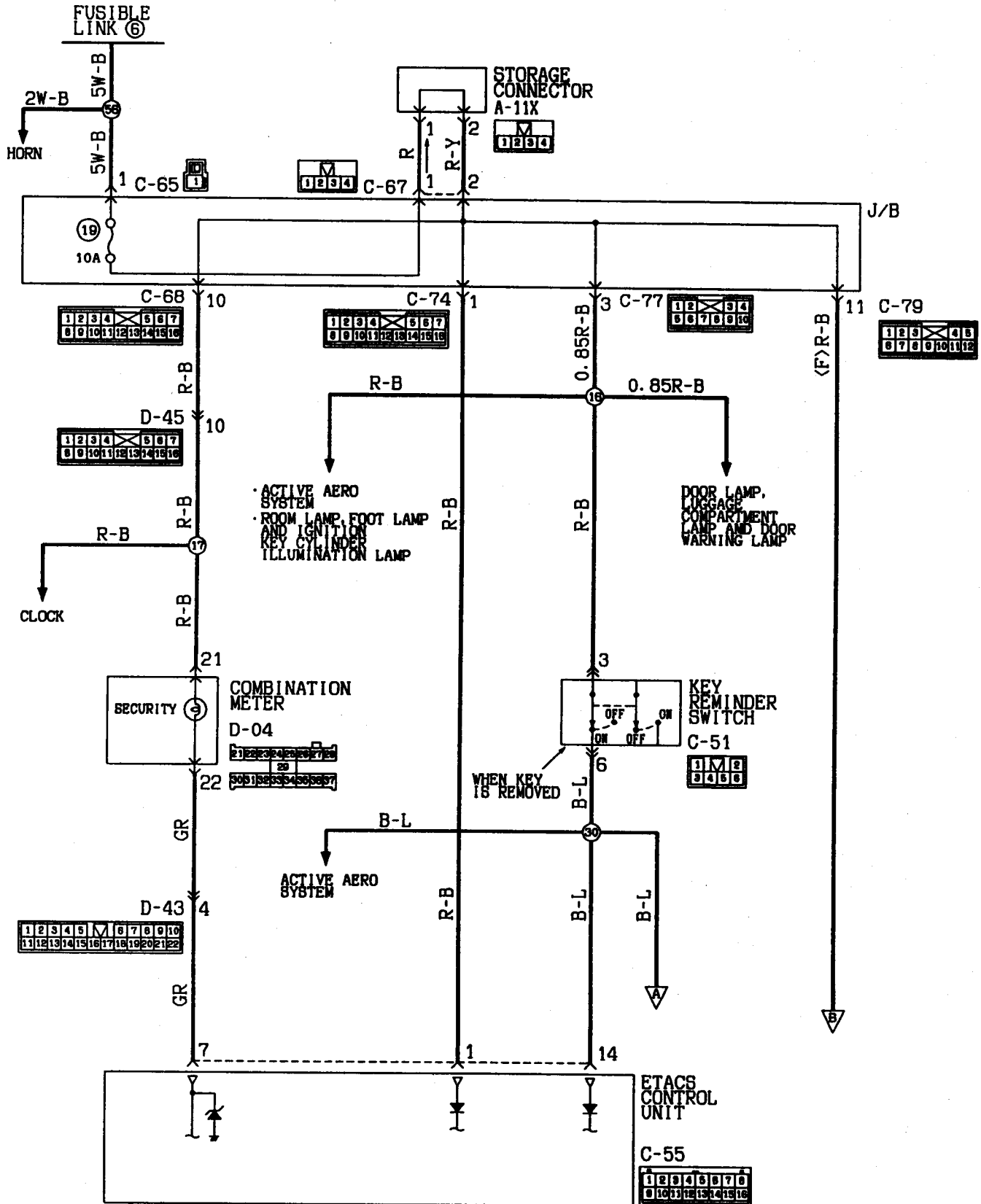






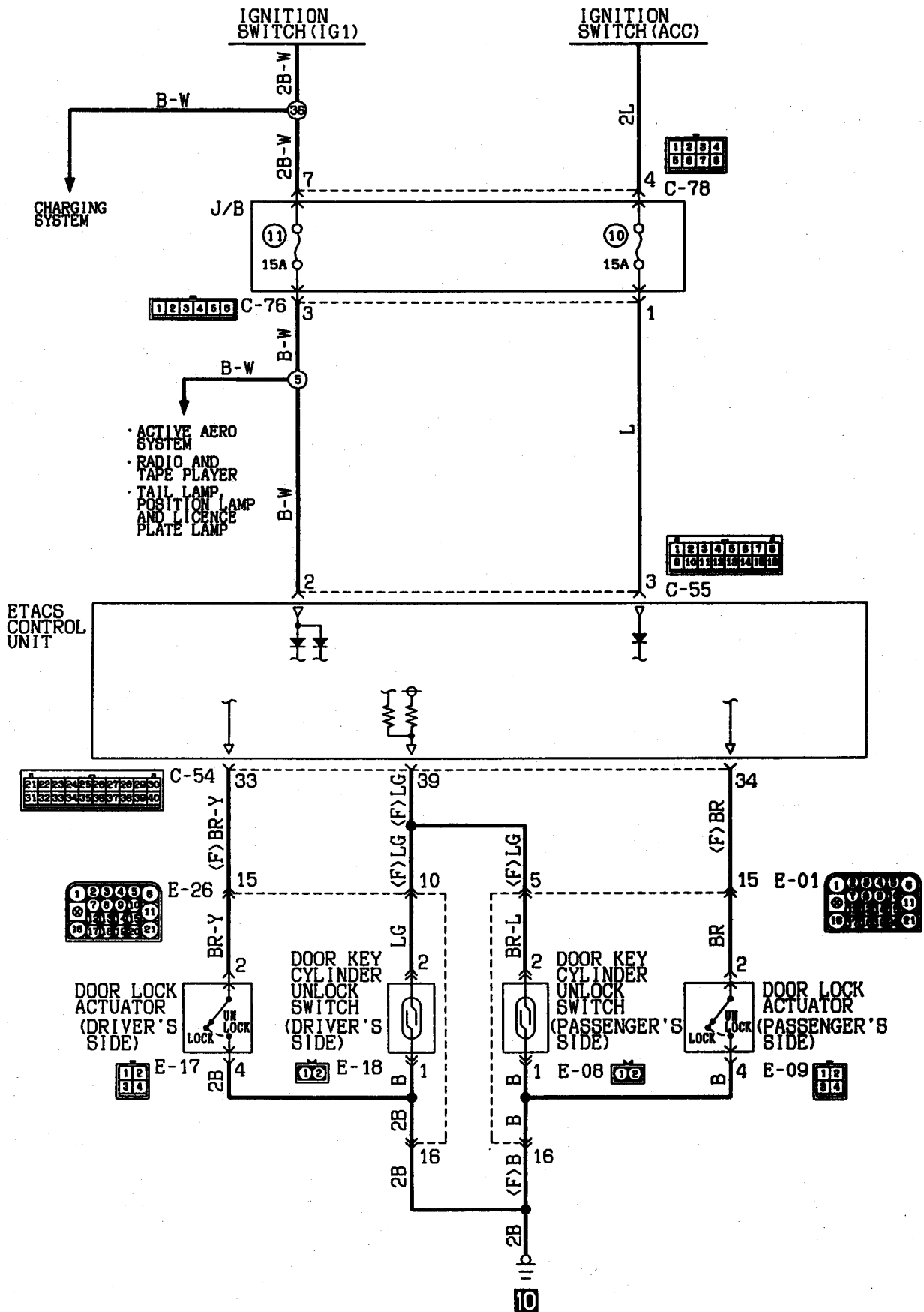
THEFT-ALARM SYSTEM

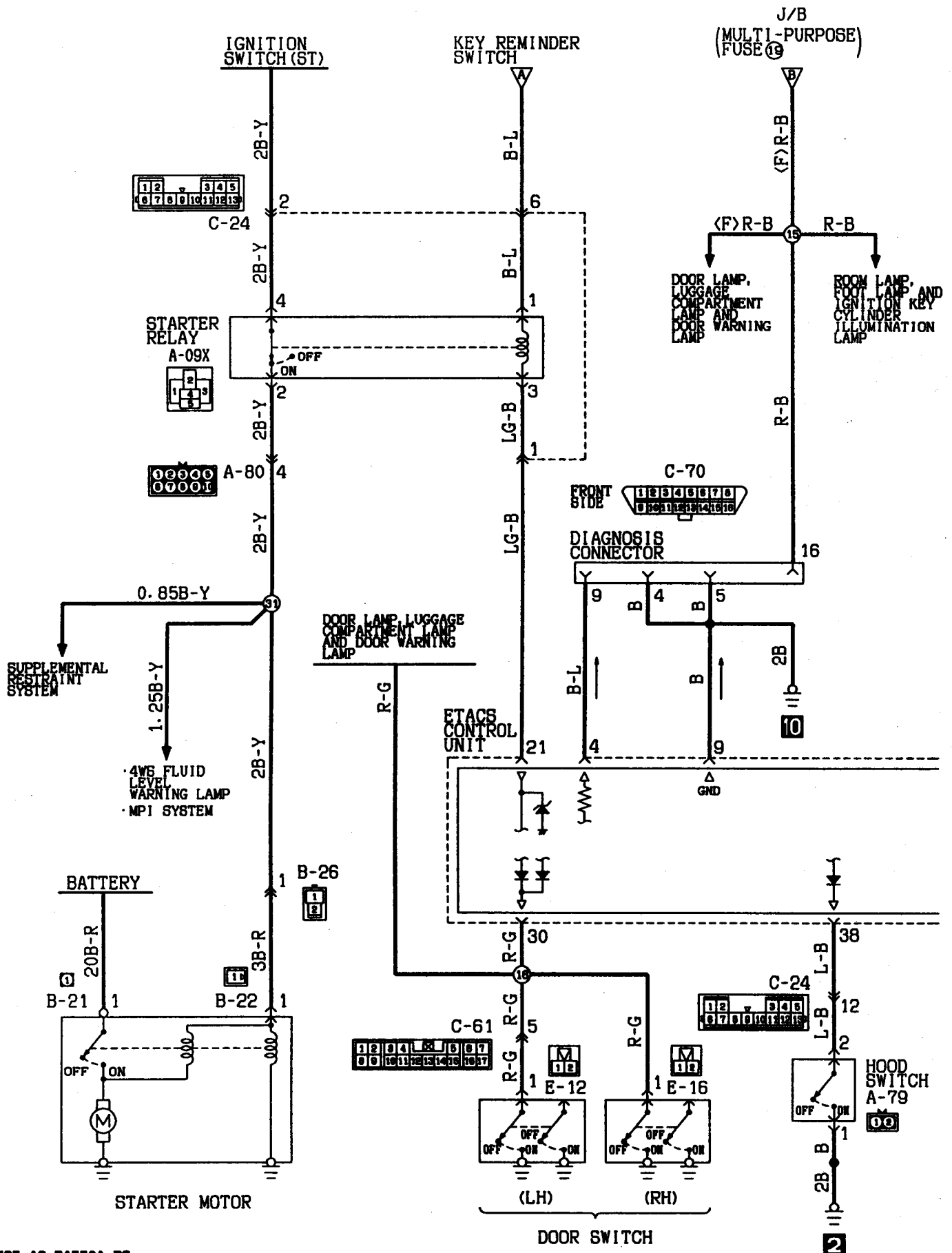
R. H. drive vehicles

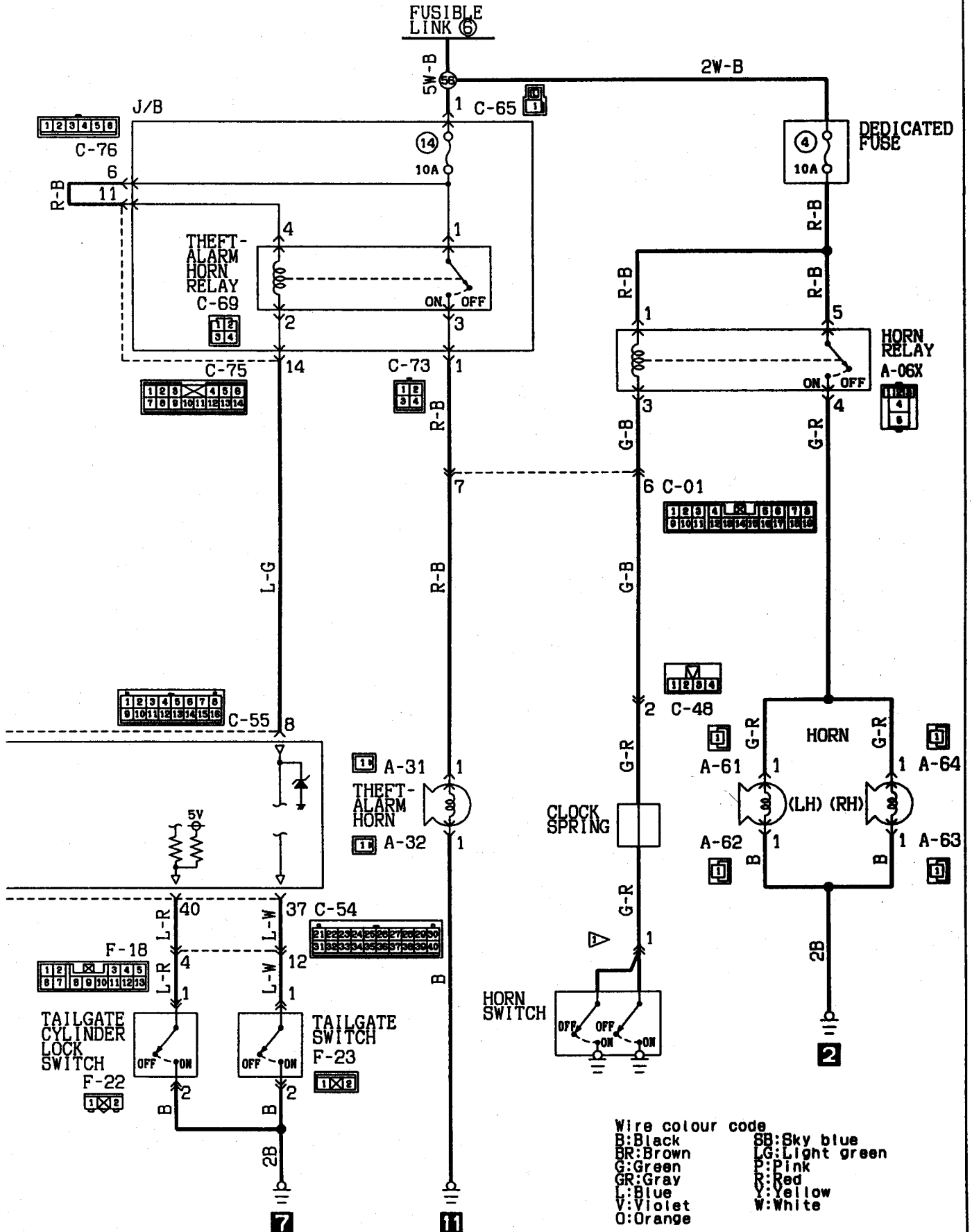


Wire colour code

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







NOTES

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		C-04X	Door lock power relay	4B-10, 102	2B-10, 12
		C-05X	Rear fog lamp relay	4B-10, 66, 68, 70	2B-10, 12
		C-06X	Defogger relay	4B-10, 21, 132	2B-10, 12
		C-07X	Power window relay	4B-10, 100, 182, 184	2B-10, 12
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		C-09	} Column switch	4B-48, 51, 55, 57, 60, 62, 67, 69, 71, 83, 85, 128	2B-10, 12
		C-10		4B-122	2B-10, 12
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C-12		Control wiring harness and instrument panel wiring harness combination	4B-31, 37, 95, 98, 123, 151, 156, 159, 162, 165, 168, 176, 180	2B-10, 12	
C-13		Body wiring harness (main) and instrument panel wiring harness combination	4B-97, 111, 112, 119, 120, 137, 139, 141, 159, 162, 165, 168, 171, 173, 174, 178	2B-10, 12	
C-14		Blend air damper control motor	4B-113, 121	2B-10, 12	
C-15		Mode selection damper control motor	4B-113, 121	2B-10, 12	
C-16		} A/C control panel	4B-111, 113, 119, 121	2B-10, 12	
C-17			4B-112, 120	2B-10, 12	
C-18		Power transistor (for A/C circuit)	4B-110, 118	2B-10, 12	
C-19		Air-inlet sensor	4B-112, 120	2B-10, 12	
C-20		Air selection damper control motor	4B-111, 119	2B-10, 12	
C-21		} Body wiring harness (main) and control wiring harness combination	4B-30, 34, 35, 36, 40, 41, 42, 89, 106, 108, 116, 123, 149, 154, 175, 179, 180	2B-10, 12	
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C-27	Body wiring harness (main) and body wiring harness (sub) combination <LHD>	4B-75, 78, 137, 142, 144, 188	2B-10, 12
C-28	Foot lamp (RH)	4B-74, 76	2B-10, 12
C-29	Body wiring harness (sub) and control wiring harness combination <LHD>	4B-152	2B-10, 12
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C-32	Blower motor relay (HI)	4B-110, 118	2B-10, 12
C-33	A/C compressor lock controller	4B-109, 117	2B-10, 12
C-34	Air-thermo sensor	4B-112, 120	2B-10, 12
C-35	Engine coolant temperature sensor	4B-112, 120	2B-11, 12
C-36	Engine control relay	4B-30, 36	2B-11, 12
C-37	} A/C control unit	4B-109, 110, 111, 112, 113, 117, 118, 119, 120, 121	2B-11, 12
C-38		4B-34, 40, 109, 110, 111, 113, 117, 118, 119, 121	2B-11, 12
C-39		4B-111, 112, 113, 119, 120, 121	2B-11, 12
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C-41	Headlamp washer relay	4B-128	2B-11, 13
C-42	Engine oil level relay	4B-98	2B-11, 13
C-43	} Engine control unit	4B-26, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 108, 116	2B-11, 13
C-44		4B-26, 30, 31, 32, 34, 35, 36, 37, 38, 40, 41, 42, 44, 106, 108, 114, 116	2B-11, 13
C-45		4B-30, 32, 33, 36, 38, 39, 149, 154, 175, 179	2B-11, 13
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		F-26	4B-159, 160, 162, 163, 165, 166, 168, 169	2B-22	
	Active aero front venturi skirt	A-69	4B-160, 163, 166, 169	2B-5, 7	
	Active aero rear spoiler	F-04	4B-87, 160, 163, 166, 169	2B-22	
	Active aero switch	D-29	4B-159, 162, 165, 168	2B-15, 17	
	Air bag module (Passenger's side)	C-85	4B-170, 172	2B-11, 13	
	Air flow sensor (with intake air temperature sensor and atmospheric sensor)	B-25	4B-32, 38	2B-9	
	Air selection damper control motor	C-20	4B-111, 119	2B-10, 12	
	Air-inlet sensor	C-19	4B-112, 120	2B-10, 12	
	Air-thermo sensor	C-34	4B-112, 120	2B-10, 12	
	Alternator	B-15	4B-27	2B-8	
		B-16	4B-27	2B-8	
	Alternator relay	A-10X	4B-10, 27	2B-4, 6	
	Ashtray illumination lamp	D-17	4B-141	2B-14, 16	
	Auto-cruise control relay	C-46	4B-177, 181	2B-11, 13	
	Auto-cruise control unit	C-30	4B-175, 176, 177, 179, 180, 181	2B-10, 12	
	Auto-cruise main switch	D-32	4B-174, 178	2B-15, 17	
	Auto-cruise vacuum pump	A-30	4B-177, 181	2B-4, 6	
	B	Back-up lamp (RH)	F-10	4B-89	2B-22
		Back-up lamp switch	B-23	4B-89	2B-9
Blend air damper control motor		C-14	4B-113, 121	2B-10, 12	
Blower motor		C-31	4B-110, 118	2B-10, 12	
Blower motor relay		C-71	4B-4, 5, 110, 118	2B-11, 13	
Blower motor relay (HI)		C-32	4B-110, 118	2B-10, 12	
Body wiring harness (main) <LHD> or (sub) <RHD> and ECS rear shock absorber joint wiring harness (LH) combination		F-29	4B-152, 157	2B-22	
Body wiring harness (main) <LHD> or (sub) <RHD> and tailgate wiring harness combination		F-31	4B-133	2B-22	
		F-32	4B-87, 113, 121, 126, 127, 160, 163, 166, 169	2B-22	
Body wiring harness (main) and body wiring harness (sub) combination		C-87	—	2B-11, 13	
		F-18	4B-63, 71, 79, 81, 83, 85, 87, 88, 89, 127, 137, 138, 143, 148, 193	2B-22	
		F-19	4B-67, 69, 148, 149, 150, 151, 152, 156, 157	2B-22	
Body wiring harness (main) and body wiring harness (sub) combination <LHD>		C-27	4B-75, 78, 137, 142, 144, 188	2B-10, 12	
Body wiring harness (main) and body wiring harness (sub) combination <RHD>		C-61	4B-77, 80, 138, 165, 168, 169, 192	2B-13	
		C-62	4B-89, 121	2B-13	
		C-63	4B-133	2B-13	
Body wiring harness (main) and console wiring harness combination		D-22	4B-97, 141, 142, 145	2B-14, 16	
Body wiring harness (main) and control wiring harness combination		C-21	4B-30, 34, 35, 36, 40, 41, 42, 89, 106, 108, 116, 123, 149, 154, 175, 179, 180	2B-10, 12	
		C-22	4B-31, 37, 89, 170, 172, 175, 179	2B-10, 12	
Body wiring harness (main) and control wiring harness combination <RHD>		C-60	4B-157	2B-13	
Body wiring harness (main) and door wiring harness (LH) combination		E-26	4B-78, 80, 100, 104, 130, 131, 137, 139, 187, 191	2B-19, 21	
Body wiring harness (main) and door wiring harness (RH) combination		E-01	4B-78, 80, 100, 104, 130, 131, 137, 139, 187, 191	2B-18, 20	
Body wiring harness (main) and front wiring harness combination		C-01	4B-22, 48, 51, 55, 56, 60, 62, 67, 69, 83, 91, 92, 108, 112, 116, 157, 177, 181, 188, 189, 193	2B-10, 12	

	Parts name	Connector No.	Circuit diagram page	Wiring diagram page
B	Body wiring harness (main) and front wiring harness combination	C-02	4B-160, 163	2B-10
		C-03	4B-13, 16, 18, 21, 27, 46, 50, 54, 56, 100, 132, 182, 184	2B-10, 12
		C-23	4B-128	2B-10, 12
		C-24	4B-22, 23, 24, 27, 30, 34, 36, 42, 48, 51, 55, 56, 63, 71, 106, 160, 163, 170, 172, 188, 192	2B-10, 12
		C-59	4B-145, 147	2B-13
		C-13	4B-97, 111, 112, 119, 120, 137, 139, 141, 159, 162, 165, 168, 171, 173, 174, 178	2B-10, 12
		C-74	4B-4, 5, 30, 36, 74, 76, 85, 89, 102, 110, 118, 136, 138, 148, 153, 171, 173, 174, 176, 178, 180, 186, 190	2B-11, 13
		C-75	4B-4, 5, 48, 51, 55, 57, 60, 62, 66, 67, 68, 69, 70, 71, 91, 102, 128, 136, 138, 183, 185, 189, 193	2B-11, 13
		C-76	4B-4, 5, 61, 63, 75, 77, 91, 122, 132, 136, 138, 141, 158, 161, 164, 167, 187, 189, 191, 193	2B-11, 13
		C-77	4B-4, 5, 22, 23, 74, 76, 79, 81, 83, 85, 102, 126, 127, 130, 131, 136, 138, 141, 158, 161, 164, 167, 186, 190	2B-11, 13
	C-78	4B-4, 5, 15, 20, 26, 27, 31, 37, 42, 44, 47, 48, 50, 51, 54, 55, 56, 57, 60, 61, 62, 63, 66, 67, 69, 71, 75, 77, 82, 84, 89, 94, 96, 100, 106, 110, 114, 118, 122, 123, 126, 127, 128, 130, 131, 132, 136, 138, 140, 141, 143, 146, 148, 153, 158, 161, 164, 167, 171, 173, 174, 175, 178, 179, 182, 183, 184, 185, 187, 191	2B-11, 13	
	C-79	4B-4, 5, 15, 30, 34, 35, 36, 40, 41, 61, 63, 74, 76, 78, 80, 87, 88, 100, 102, 106, 110, 114, 118, 120, 122, 123, 128, 132, 136, 138, 141, 143, 144, 146, 147, 148, 153, 158, 161, 164, 167, 170, 172, 174, 175, 176, 178, 179, 180, 182, 184, 186, 190	2B-11, 13	
	Body wiring harness (sub) <LHD> or (main) <RHD> and ECS rear shock absorber joint wiring harness (RH) combination	F-07	4B-152, 157	2B-22
	Body wiring harness (sub) <LHD> or (main) <RHD> and fuel tank wiring harness combination	F-13	4B-31, 37, 94, 97	2B-22
	Body wiring harness (sub) <LHD> or (main) <RHD> and rear bumper wiring harness combination	F-17	4B-61, 63, 89	2B-22
	Body wiring harness (sub) and control wiring harness combination <LHD>	C-29	4B-152	2B-10, 12
	Body wiring harness (sub) and front wiring harness combination <LHD>	C-25	4B-142	2B-10, 12
	Body wiring harness (sub) and front wiring harness combination <RHD>	C-26	4B-31, 61, 144, 152	2B-10, 12
	Body wiring harness (sub) and front wiring harness combination <RHD>	C-64	4B-166, 169	2B-13
	Brake fluid level sensor	A-27	4B-97	2B-4, 6
Buck-up lamp (LH)	F-24	4B-89	2B-22	
C	Cam position sensor	B-36	4B-32, 38	2B-9
	Cigarette lighter	D-18	4B-141	2B-14, 16
		D-19	4B-141	2B-14, 16
	Cigarette lighter illumination lamp	D-20	4B-141	2B-14, 16
	Clock	D-08	4B-140	2B-14, 16
	Clock spring	C-48	4B-91, 92, 175, 179, 189, 193	2B-11, 13
	Clutch pedal switch	C-53	4B-175, 179	2B-11, 13

	Parts name	Connector No.	Circuit diagram page	Wiring diagram page
C	Column switch	C-09	4B-48, 51, 55, 57, 60, 62, 67, 69, 71, 83, 85, 128	2B-10, 12
		C-10	4B-122	2B-10, 12
	Combination gauge	D-09	4B-31, 37, 95	2B-14, 16
	Combination meter	D-03	4B-31, 37, 94, 98, 150, 155	2B-14, 16
		D-04	4B-27, 31, 37, 42, 44, 46, 50, 54, 56, 67, 69, 71, 79, 81, 83, 85, 94, 96, 97, 123, 128, 143, 146, 160, 163, 166, 169, 171, 173, 177, 181, 186, 190	2B-14, 16
	Combination meter	D-05	4B-27, 42, 44, 67, 69, 71, 83, 85, 94, 98, 123, 128, 160, 163, 166, 169, 171, 173, 177, 181	2B-14, 16
	Condenser fan motor	A-59	4B-43, 45, 107, 115	2B-5, 7
		A-60	4B-43, 45, 107, 115	2B-5, 7
	Condenser fan motor relay (HI)	A-44X	4B-10, 43, 45, 107, 115	2B-4, 7
	Condenser fan motor relay (LO)	A-47X	4B-10, 43, 45, 107, 115	2B-4, 7
	Control wiring harness and ECS front shock absorber joint wiring harness (RH) combination	A-14	4B-152, 157	2B-4, 6
	Control wiring harness and battery cable combination	B-26	4B-22, 23, 24, 188, 192	2B-9
	Control wiring harness and injector wiring harness combination	B-07	4B-33, 39	2B-8
	Control wiring harness and instrument panel wiring harness combination	C-12	4B-31, 37, 95, 98, 123, 151, 156, 159, 162, 165, 168, 176, 180	2B-10, 12
	Control wiring harness and oil pressure wiring harness combination	B-06	4B-35, 41, 95, 98	2B-8
	Control wiring harness and solenoid valve wiring harness combination	A-22	4B-35, 41	2B-4, 6
	Crank angle sensor	B-37	4B-32, 38	2B-9
D	Daytime running lamp control unit <LHD>	A-37	4B-47, 60, 67, 112	2B-4
	Daytime running lamp relay <LHD>	A-36	4B-46	2B-4
	Defogger (+)	F-02	4B-133	2B-22
	Defogger (-)	F-05	4B-133	2B-22
	Defogger relay	C-06X	4B-10, 21, 132	2B-10, 12
	Defogger switch and ECS switch	D-06	4B-133, 150, 155	2B-14, 16
	Detonation sensor	B-08	4B-32, 38	2B-8
	Diagnosis connector	C-70	4B-35, 41, 75, 77, 78, 80, 103, 111, 119, 122, 132, 144, 147, 150, 155, 159, 162, 165, 168, 171, 173, 176, 180, 188, 192	2B-11, 13
	Dim-dip lamp relay 1 or no connection	A-81	4B-55, 57	2B-7
	Dim-dip lamp relay 2, 3 or jumper connector	A-82	4B-54, 56	2B-7
	Dim-dip lamp relay 2, 3 or jumper connector	A-83	4B-54, 56	2B-7
	Diode (for 4WS fluid level warning lamp circuit)	D-10	4B-96	2B-14, 16
	Diode (for ABS circuit)	A-84	4B-142, 145	2B-5, 7
	Diode (for MPI circuit)	E-24	4B-34, 40	2B-19, 21
	Diode (for headlamp circuit) <RHD>	A-38	4B-55, 57	2B-7
		A-39	4B-55, 56	2B-7
		A-40	4B-55, 56	2B-7
		A-41	4B-55, 57	2B-7
	Diode (for headlamp circuit) <LHD>	C-57	4B-48, 51, 67	2B-11
	Door key cylinder unlock switch (Driver's side) <Vehicles with theft-alarm system>	E-18	4B-104, 187, 191	2B-19, 21
	Door key cylinder unlock switch (Passenger's side)	E-08	4B-104, 187, 191	2B-18, 20
	Door lamp (Driver's side)	E-19	4B-78, 80	2B-19, 21
	Door lamp (Passenger's side)	E-07	4B-78, 80	2B-18, 20
	Door lock actuator (Driver's side)	E-17	4B-104, 187, 191	2B-18, 21
	Door lock actuator (Passenger's side)	E-09	4B-104, 187, 191	2B-18, 20
	Door lock power relay	C-04X	4B-10, 102	2B-10, 12
	Door mirror (Driver's side)	E-27	4B-130, 131	2B-19, 21

	Parts name	Connector No.	Circuit diagram page	Wiring diagram page
D	Door mirror (Passenger's side)	E-02	4B-130, 131	2B-18, 20
	Door speaker (Driver's side)	E-22	4B-137, 139	2B-19, 21
	Door speaker (Passenger's side)	E-03	4B-137, 139	2B-18, 20
	Door switch (Driver's side)	E-16	4B-61, 63, 75, 77, 78, 80, 103, 188, 192	2B-18, 20
	Door switch (Passenger's side)	E-12	4B-75, 77, 78, 80, 188, 192	2B-18, 20
	Dual pressure switch	A-48	4B-108, 116	2B-4, 7
E	ECS G sensor	E-21	4B-151, 156	2B-19, 21
	ECS control unit	F-11	4B-149, 150, 151, 152, 154, 155, 156, 157	2B-22
		F-12	4B-150, 152, 155, 157	2B-22
	ECS front shock absorber (LH)	A-88	4B-152, 157	2B-5, 7
	ECS front shock absorber (RH)	A-87	4B-152, 157	2B-5, 7
	ECS rear shock absorber (LH)	F-34	4B-152, 157	2B-22
	ECS rear shock absorber (RH)	F-33	4B-152, 157	2B-22
	EGR control solenoid valve	A-26	4B-35, 41	2B-4, 6
	ETACS control unit	C-54	4B-22, 23, 75, 77, 103, 122, 132, 187, 188, 189, 191, 192, 193	2B-11, 13
		C-55	4B-75, 77, 91, 103, 122, 132, 186, 187, 188, 189, 190, 191, 192, 193	2B-11, 13
	Engine control relay	C-36	4B-30, 36	2B-11, 12
	Engine control unit	C-43	4B-26, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 108, 116	2B-11, 13
		C-44	4B-26, 30, 31, 32, 34, 35, 36, 37, 38, 40, 41, 42, 44, 106, 108, 114, 116	2B-11, 13
		C-45	4B-30, 32, 33, 36, 38, 39, 149, 154, 175, 179	2B-11, 13
	Engine coolant level sensor	A-68	4B-42, 44	2B-5, 7
	Engine coolant temperature gauge unit	B-01	4B-95	2B-8
	Engine coolant temperature sensor	B-02	4B-32, 38	2B-8
		C-35	4B-112, 120	2B-11, 12
	Engine oil level relay	C-42	4B-98	2B-11, 13
	Engine oil level sensor	B-32	4B-98	2B-9
Engine speed detection connector	A-17	4B-26	2B-4, 6	
F	Foot lamp (LH)	C-56	4B-74, 76	2B-11, 13
	Foot lamp (RH)	C-28	4B-74, 76	2B-10, 12
	Front speaker (LH)	D-02	4B-137, 139	2B-14, 16
	Front speaker (RH)	D-13	4B-137, 139	2B-14, 16
	Front turn signal lamp (LH)	A-52	4B-83, 85	2B-4, 7
	Front turn signal lamp (RH)	A-75	4B-83, 85	2B-5, 7
	Front wiring harness and ECS front shock absorber joint wiring harness (LH) combination	A-28	4B-152, 157	2B-4, 6
	Front wiring harness and control wiring harness combination	A-80	4B-22, 23, 24, 30, 34, 36, 40, 44, 72, 108, 114, 116, 170, 172, 188, 192	2B-5, 7
		C-86	4B-33, 39	2B-11, 13
	Front wiring harness and junction block combination	C-65	4B-4, 5, 14, 19, 22, 23, 30, 35, 36, 41, 66, 68, 70, 74, 76, 78, 80, 87, 88, 91, 102, 110, 118, 122, 132, 136, 138, 140, 143, 144, 146, 147, 148, 153, 158, 161, 164, 167, 170, 172, 176, 180, 186, 189, 190, 193	2B-11, 13
		C-66	4B-4, 5, 14, 19, 34, 40, 42, 47, 55, 57, 58, 60, 61, 63, 66, 68, 70, 72, 82, 84, 85, 94, 106, 114, 120, 126, 127, 133, 136, 138, 140, 141, 143, 146, 149, 154, 158, 161, 164, 167, 174, 178	2B-11, 13
	Front wiring harness and junction block combination	C-67	4B-4, 5, 14, 15, 19, 20, 22, 23, 30, 35, 36, 41, 74, 76, 78, 80, 102, 110, 118, 122, 132, 136, 138, 140, 144, 147, 148, 153, 158, 161, 164, 167, 170, 172, 175, 176, 179, 180, 186, 190	2B-11, 13
	Fuel pressure solenoid valve	A-24	4B-35, 41	2B-4, 6
	Fuel pump check connector	A-18	4B-31, 37	2B-4, 6
Fuel pump relay	B-24	4B-31, 37	2B-9	

	Parts name	Connector No.	Circuit diagram page	Wiring diagram page
F	Fuel pump resistor	A-65	4B-31, 37	2B-5, 7
	Fuel tank	F-15	4B-31, 37, 94, 97	2B-22
G	Glove box lamp	D-11	4B-72	2B-14, 16
	Glove box lamp switch	D-14	4B-72	2B-14, 16
H	Hazard switch	D-07	4B-82, 84	2B-14, 16
	Headlamp (LH: HI)	A-54	4B-46, 50, 54, 56	2B-5, 7
	Headlamp (LH: LO)	A-91	4B-46, 50, 54, 56	2B-5, 7
	Headlamp (RH: HI)	A-74	4B-46, 50, 54, 56	2B-5, 7
	Headlamp (RH: LO)	A-92	4B-46, 50, 54, 56	2B-5, 7
	Headlamp leveling switch	D-38	4B-58	2B-15, 17
	Headlamp leveling unit (LH)	A-55	4B-58	2B-5, 7
	Headlamp leveling unit (RH)	A-73	4B-58	2B-5, 7
	Headlamp relay	A-01X	4B-10, 13, 18, 46, 50, 54, 56, 66	2B-4, 6
	Headlamp washer motor	A-67	4B-128	2B-5, 7
	Headlamp washer relay	C-41	4B-128	2B-11, 13
	Hood switch <Vehicles with theft-alarm system>	A-79	4B-188, 192	2B-5, 7
	Horn	A-61	4B-91, 92, 189, 193	2B-5, 7
		A-62	4B-91, 92, 189, 193	2B-5, 7
		A-63	4B-91, 92, 189, 193	2B-5, 7
		A-64	4B-91, 92, 189, 193	2B-5, 7
	A-06X	4B-10, 16, 91, 92, 189, 193	2B-4, 6	
I	Idle speed control servo (stepper motor)	B-31	4B-33, 39	2B-9
	Ignition coil	B-13	4B-26	2B-8
	Ignition switch	C-52	4B-15, 20	2B-11, 13
	Ignition timing adjustment connector	A-19	4B-26, 35, 41	2B-4, 6
	Injector No. 1	B-12	4B-33, 39	2B-8
	Injector No. 2	B-27	4B-33, 39	2B-9
	Injector No. 3	B-10	4B-33, 39	2B-8
	Injector No. 4	B-28	4B-33, 39	2B-9
	Injector No. 5	B-09	4B-33, 39	2B-8
	Injector No. 6	B-29	4B-33, 39	2B-9
	Inspection lamp	A-86	4B-72	2B-5, 7
	Inspection lamp switch	A-53	4B-72	2B-5, 7
	Instrument panel adapter wiring harness and junction block combination	C-68	4B-4, 5, 26, 27, 30, 31, 36, 37, 42, 44, 58, 66, 67, 68, 69, 70, 71, 72, 79, 81, 82, 83, 84, 85, 94, 96, 123, 126, 127, 128, 133, 140, 143, 146, 149, 154, 158, 161, 164, 167, 171, 173, 174, 178, 186, 190	2B-11, 13
	Instrument panel wiring harness and body wiring harness (main) combination	D-42	4B-79, 81, 82, 84, 130, 155	2B-15, 17
		D-43	4B-66, 67, 68, 69, 70, 71, 94, 97, 109, 117, 126, 127, 130, 133, 137, 146, 151, 156, 159, 160, 162, 163, 165, 168, 176, 177, 180, 181, 186, 190	2B-15, 17
		D-44	4B-58, 67, 69, 71, 82, 83, 84, 85, 95, 96, 126, 127, 130, 133, 140, 150, 155, 177, 181	2B-15, 17
	Instrument panel wiring harness and body wiring harness (sub) combination	D-16	4B-94, 97, 126, 127, 143, 150, 166, 169	2B-14, 16
Instrument panel wiring harness and control wiring harness combination	D-15	4B-26, 30, 36, 72, 94, 95, 96, 98, 109, 117	2B-14, 16	
Instrument panel wiring harness and front wiring harness combination	D-46	4B-27, 42, 44, 46, 47, 50, 54, 56, 58, 66, 68, 70, 72, 83, 95, 96, 97, 98, 128, 143, 146	2B-15, 17	
Instrument panel wiring harness and instrument panel adapter wiring harness combination	D-45	4B-26, 27, 30, 31, 36, 37, 42, 44, 58, 66, 67, 68, 69, 70, 71, 72, 79, 81, 82, 84, 85, 94, 96, 123, 126, 127, 128, 133, 140, 143, 146, 149, 154, 158, 161, 164, 167, 171, 173, 174, 178, 186, 190	2B-15, 17	
Interior temperature sensor	F-01	4B-113, 121	2B-22	
J	Joint connector <Vehicles with dim-dip lamp>	A-43	4B-55, 56	2B-7

	Parts name	Connector No.	Circuit diagram page	Wiring diagram page
J	Jumper connector	E-25	4B-34	2B-19
K	Key reminder switch	C-51	4B-22, 23, 74, 76, 103, 158, 163, 164, 169, 186, 190	2B-11, 13
L	Licence plate lamp (RH)	F-16	4B-61, 63	2B-22
	Licence plate lamp (LH)	F-20	4B-61, 63	2B-22
	Lighting monitor buzzer	C-40	4B-61, 63	2B-11, 13
	Luggage compartment lamp	F-08	4B-79, 81	2B-22
	Luggage compartment lamp switch	F-21	4B-79, 81	2B-22
M	Magnetic clutch	B-18	4B-108, 116	2B-8
	Magnetic clutch relay	A-46X	4B-10, 108, 116	2B-4, 7
	Mode selection damper control motor	C-15	4B-113, 121	2B-10, 12
	Motor antenna control unit	F-28	4B-136, 138	2B-22
N	No connection	A-85	—	2B-5
		A-93	—	2B-5, 7
		C-49	4B-34, 87, 143, 148, 177	2B-11
		C-83	—	2B-11
		C-88	—	2B-11, 13
		D-39	4B-94	2B-15, 17
		D-50	—	2B-15, 17
		E-30	—	2B-21
		E-31	—	2B-19
		E-32	—	2B-19
		E-37	—	2B-19, 21
	No connection	E-38	—	2B-19, 21
	Noise capacitor	B-14	4B-26	2B-8
	O	Oil pressure gauge unit	B-33	4B-95
Oil pressure switch		B-34	4B-98	2B-9
Oxygen sensor (LH)		B-11	4B-33, 39	2B-8
Oxygen sensor (RH)		B-17	4B-33, 39	2B-8
P	Parking brake switch	D-28	4B-97	2B-15, 17
	Photo sensor	D-12	4B-111, 119	2B-14, 16
	Position lamp (LH)	A-89	4B-61, 63	2B-5, 7
	Position lamp (RH)	A-90	4B-61, 63	2B-5, 7
	Power seat assembly	E-20	4B-182, 183, 184, 185	2B-19, 21
	Power seat switch	D-21	4B-182, 184	2B-14, 16
	Power steering oil pressure switch	B-35	4B-35, 41	2B-9
	Power transistor	B-19	4B-26	2B-9
		B-20	4B-26	2B-9
	Power transistor (for A/C circuit)	C-18	4B-110, 118	2B-10, 12
	Power window main switch	E-28	4B-100	2B-19, 21
	Power window motor (Driver's side)	E-29	4B-100	2B-19, 21
	Power window motor (Passenger's side)	E-06	4B-100	2B-18, 20
	Power window relay	C-07X	4B-10, 100, 182, 184	2B-10, 12
	Power window sub switch	E-05	4B-100	2B-18, 20
	Purge control solenoid valve	A-25	4B-35, 41	2B-4, 6
	R	Radiator fan motor	A-66	4B-42, 44, 106, 114
Radiator fan motor relay (HI)		A-07X	4B-10, 42, 44, 106, 114	2B-4, 6
Radiator fan motor relay (LO)		A-04X	4B-10, 42, 44, 106, 114	2B-4, 6
Radio and tape player		D-35	4B-136, 137, 138, 139	2B-15, 17
		D-36	4B-136, 137, 138, 139	2B-15, 17
Rear combination lamp (LH)		F-27	4B-61, 63, 67, 69, 71, 83, 85, 87, 88	2B-22
Rear combination lamp (RH)		F-09	4B-61, 63, 67, 69, 71, 83, 85, 87, 88	2B-22
Rear fog lamp relay		C-05X	4B-10, 66, 68, 70	2B-10, 12
Rear fog lamp switch		D-01	4B-66, 68, 70	2B-14, 16
Rear intermittent wiper relay		E-14	4B-126, 127	2B-18, 20
Rear speaker (LH)		F-30	4B-137, 139	2B-22
Rear speaker (RH)		F-06	4B-137, 139	2B-22

	Parts name	Connector No.	Circuit diagram page	Wiring diagram page
R	Rear washer motor	F-14	4B-126, 127	2B-22
	Rear wiper and washer switch	D-37	4B-126, 127	2B-15, 17
	Rear wiper motor	F-03	4B-126, 127	2B-22
	Remote controlled mirror switch	D-40	4B-130, 131	2B-15, 17
	Resistor	A-21	4B-33, 39	2B-4, 6
	Resistor (Vehicles with dim-dip lamp)	A-42	4B-55, 57	2B-7
	Rheostat	D-41	4B-95	2B-15, 17
	Roof wiring harness and junction block combination	C-72	4B-4, 5, 74, 76	2B-11, 13
Room lamp	E-04	4B-74	2B-18, 20	
S	SRS diagnosis unit	D-23	4B-170, 171, 172, 173	2B-14, 16
		D-24	4B-170, 172	2B-14, 16
		D-26	4B-171, 173	2B-14, 16
	SRS front impact sensor (LH)	A-51	4B-170, 172	2B-4, 7
	SRS front impact sensor (RH)	A-76	4B-170, 172	2B-5, 7
	Side turn signal lamp (LH)	A-29	4B-83, 85	2B-4, 6
	Side turn signal lamp (RH)	A-13	4B-83, 85	2B-4, 6
	Speed sensor	B-30	4B-33, 39, 95	2B-9
	Starter motor	B-21	4B-22, 23, 24, 188, 192	2B-9
		B-22	4B-22, 23, 24, 188, 192	2B-9
	Starter relay	A-09X	4B-10, 22, 23, 188, 192	2B-4, 6
	Steering wheel angle speed sensor	C-47	4B-151, 156	2B-11, 13
	Stop lamp switch	C-50	4B-34, 40, 87, 88, 143, 146, 148, 153, 177, 181	2B-11, 13
Storage connector	A-11X	4B-10, 14, 15, 19, 20, 22, 23, 30, 35, 36, 41, 74, 76, 78, 80, 102, 110, 118, 122, 132, 136, 138, 140, 144, 147, 148, 153, 158, 161, 164, 167, 170, 172, 175, 176, 179, 180, 186, 190	2B-4, 6	
T	Tail lamp relay	A-05X	4B-10, 13, 18, 46, 60, 62	2B-4, 6
	Tailgate cylinder lock switch (Vehicles with theft-alarm system)	F-22	4B-189, 193	2B-22
	Tailgate switch (Vehicles with theft-alarm system)	F-23	4B-189, 193	2B-22
	Theft-alarm horn	A-31	4B-91, 189, 193	2B-4, 6
		A-32	4B-91, 189, 193	2B-4, 6
	Theft-alarm horn relay	C-69	4B-4, 5, 91, 189, 193	2B-11, 13
	Throttle position sensor	B-05	4B-32, 38, 149, 154, 175, 179	2B-8
Turn signal and hazard flasher unit	E-23	4B-82, 84	2B-19, 21	
W	Washer fluid level sensor	A-15	4B-123	2B-4, 6
	Waste gate solenoid valve	A-23	4B-35, 41	2B-4, 6
	Windshield washer motor	A-20	4B-123	2B-4, 6
	Windshield wiper motor	A-16	4B-123	2B-4, 6