MITSUBISHI
SPACE RUNNER
SPACE WAGON

ELECTRICAL WIRING

FOREWORD

This Electrical Wiring Manual contains information necessary for inspection and servicing of electrical wiring in the Mitsubishi SPACE RUNNER and SPACE WAGON 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.

WORKSHOP MANUAL	PWDE9104 (Loose-leaf edition)
WORKSHOP MANUAL Engine Group	PWEE□□□□ (Loose-leaf edition)
PARTS CATALOGUE	B608D501A□ B608E501A□

GROUP INDEX

HOW TO READ THE WIRING DIAGRAMS 1

WIRING HARNESS CONFIGURATION DIAGRAMS 2

SINGLE PART INSTALLATION POSITION 3

CIRCUIT DIAGRAM 4

COMPOSITION AND CONTENTS OF WIRING DIAGRAMS

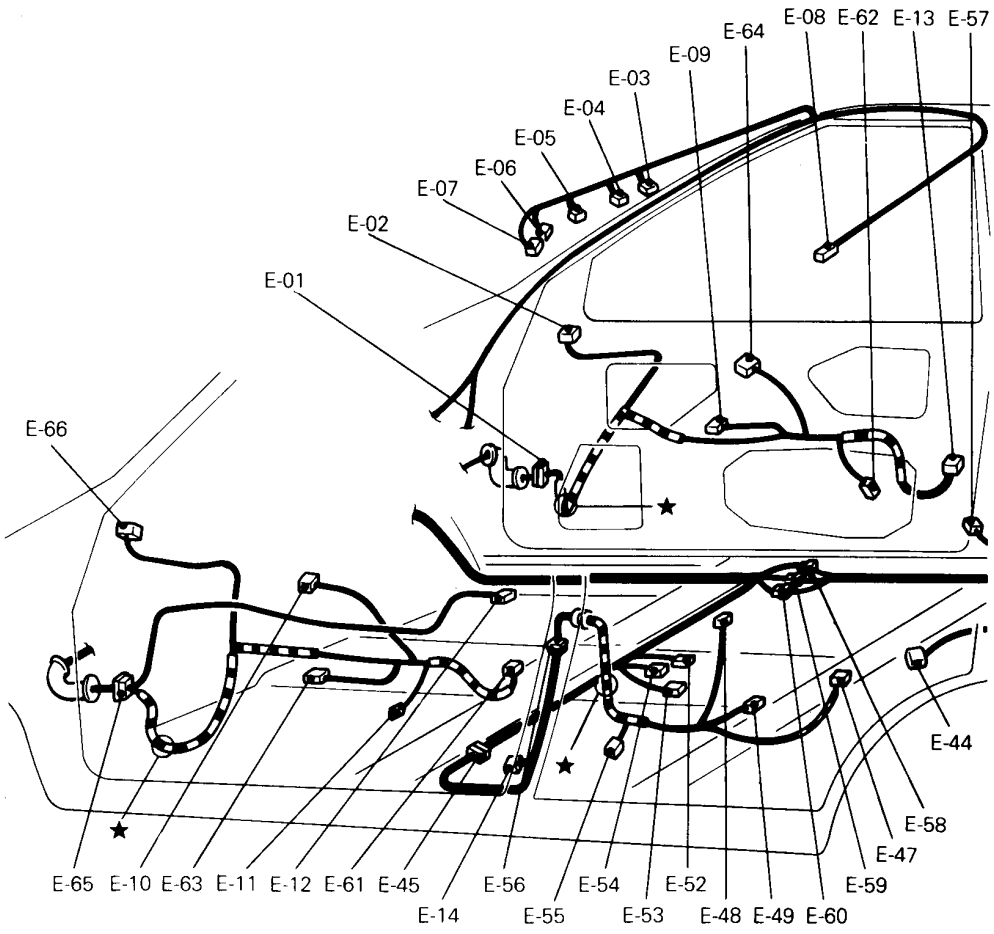
(1) This manual consists of wiring harness diagrams, installation locations of individual parts, circuit diagrams and wiring diagram.
(2) In each of the sections, all specifications are listed, including optional specifications. Accordingly, some specifications may not be applicable for individual vehicles.

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	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. • 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/Jumper connector Here is the circuit for the entire junction block or jumper connector since only the part of the junction block or jumper connector 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.

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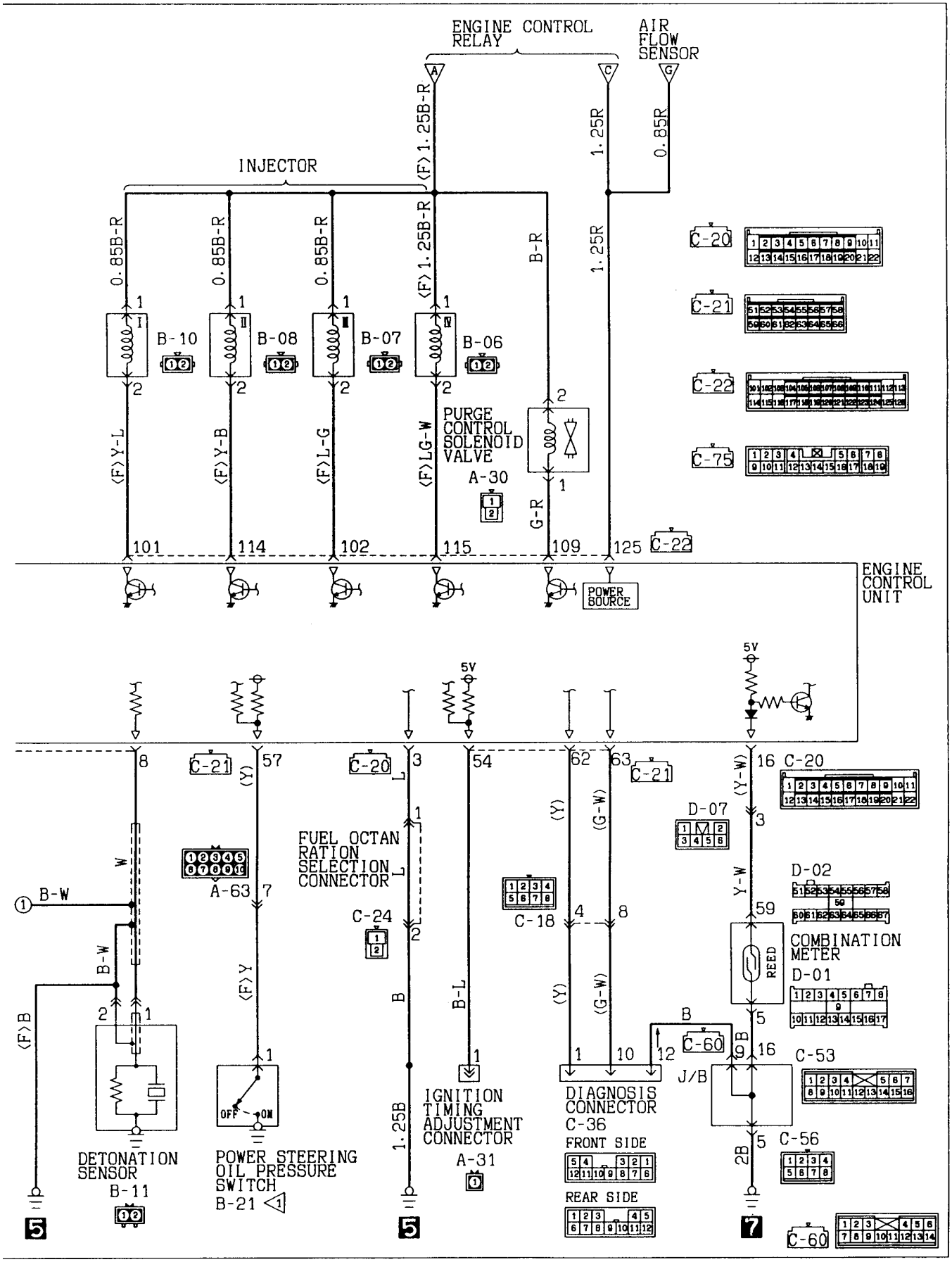
6-4 R.H. drive vehicles ‹SPACE WAGON›

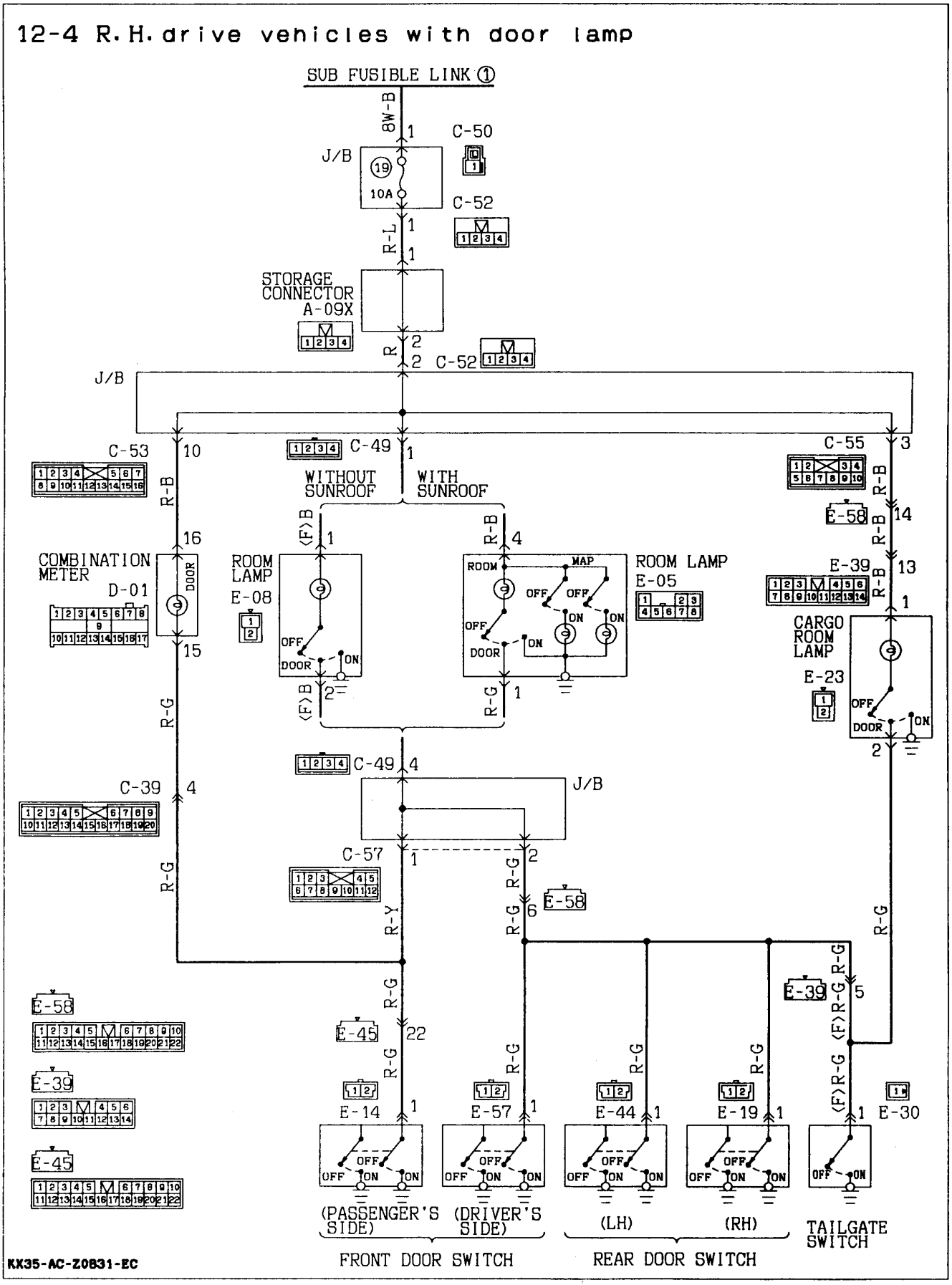
Connector symbol **E**



E-01	Front door wiring harness (RH) and main wiring harness combination	E-18	Rear door lamp (RH)
E-02	Remote controlled mirror (RH)	E-19	Rear door switch (RH)
E-03	Sunroof control relay	E-20	Rear door lock actuator (RH)
E-04	Sunroof relay	E-21	Defogger (+)
E-05	Room lamp ‹vehicles with sunroof›	E-22	Rear speaker (RH)
E-06	Limit switch ‹vehicles with sunroof›	E-23	Cargo room lamp
E-07	Sunroof motor	E-24	Defogger (−)
E-08	Room lamp ‹vehicles without sunroof›	E-25, E-26	Rear combination lamp (RH)
E-09	Power window motor (RH)	E-27	Tailgate lamp (RH)
E-10	Power window sub switch (front)	E-28	Back-up lamp
E-11	Front door lamp (passenger's side)	E-29	License plate lamp
E-12	Door lock key cylinder switch	E-30	Tailgate switch
E-13	Front door lock actuator (RH)	E-31	Rear wiper motor
E-14	Front door switch (passenger's side)	E-32	Tailgate lock actuator
E-15	Assist wiring harness and rear door wiring harness combination	E-33	Tailgate wiring harness and tailgate sub wiring harness combination
E-16	Power window motor (rear: RH)	E-34	Rear wiring harness and rear bumper wiring harness combination
E-17	Power window sub switch (rear: RH)		

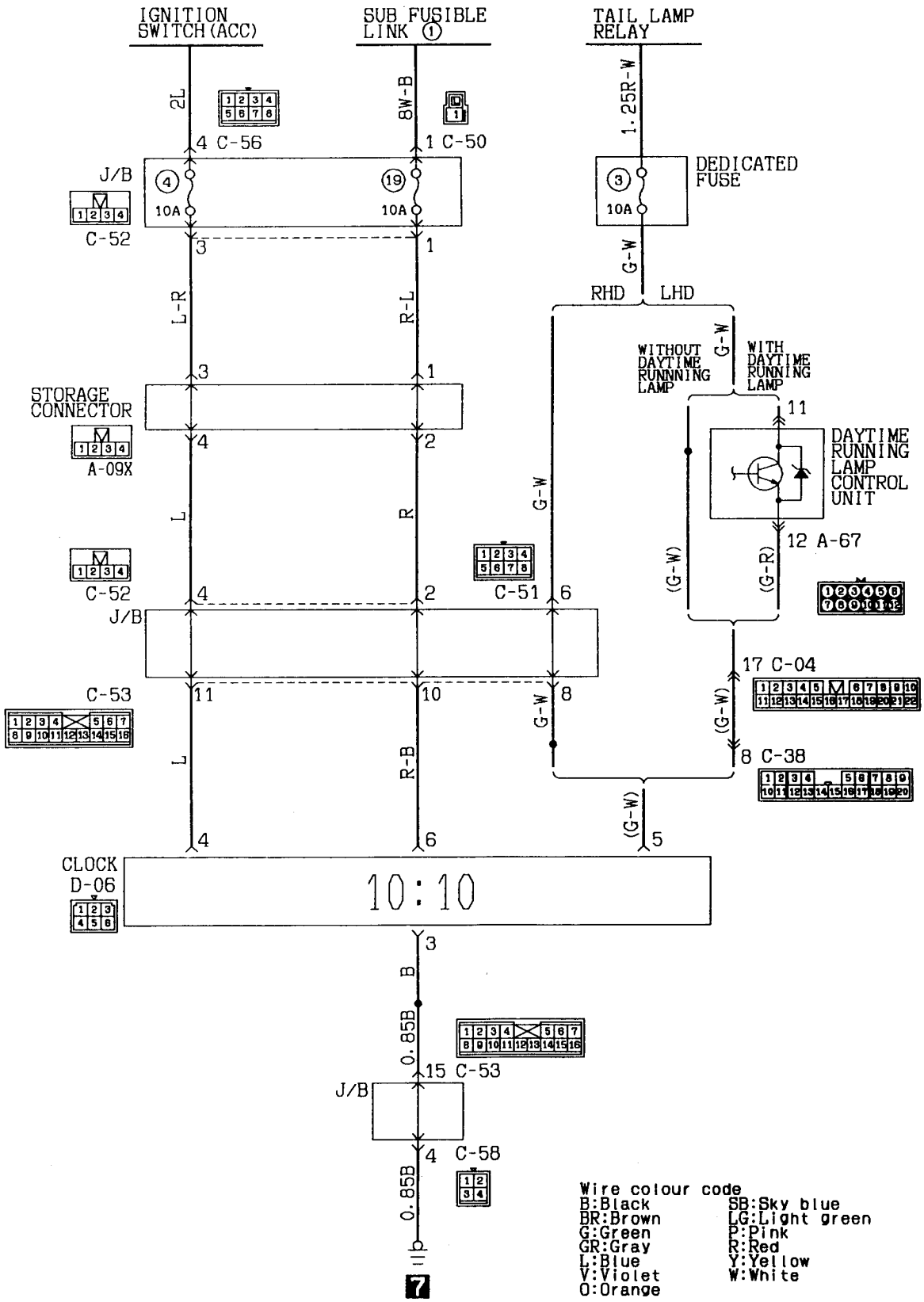
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ENGINE CONTROL RELAY
AIR FLOW SENSOR
INJECTOR
PURGE CONTROL SOLENOID VALVE
A-30
POWER SOURCE
ENGINE CONTROL UNIT
FUEL OCTAN RATION SELECTION CONNECTOR
C-24
IGNITION TIMING ADJUSTMENT CONNECTOR
A-31
DIAGNOSIS CONNECTOR C-36
FRONT SIDE
REAR SIDE
COMBINATION METER
D-01
REED
J/B
DETONATION SENSOR
B-11
POWER STEERING OIL PRESSURE SWITCH
B-21
OFF
ON
B-10
B-08
B-07
B-06
A-63
C-18
C-53
C-56
C-60
D-02
D-07
C-20
C-21
C-22
C-75



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32 CLOCK



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COOLING SYSTEM <4G93> (See P. 4A-54.)

OPERATION

1. When A/C belt lock controller outputs LO signal (0 V)

- When the engine coolant temperature goes up to 85°C, the thermo switch of radiator is activated.
- This energizes the radiator fan motor relay, causing the radiator fan to start rotating.

2. When A/C belt lock controller outputs HI signal (System voltage)

- The condenser fan motor relay (LO) is energized by the power supplied from the auto compressor control unit causing the condenser fan to start rotating.
- As the engine coolant temperature rises up to 85°C, the thermo switch is activated, just as in 1 above, causing the radiator fan to start rotating.

TROUBLESHOOTING HINTS

1. Neither radiator fan nor condenser fan operates.
   - Check the sub-fusible link No. ⑤.
2. Condenser fan only does not operate at all.
   - Check the dedicated fuse No. ⑥.
   - Check to see if auto compressor control unit outputs a signal.

Remarks

- For troubleshooting the automatic compressor control unit, see the Troubleshooting in Group 55 Heater and Air Conditioner of the separate WORKSHOP MANUAL (Pub. No. PWDE9104).

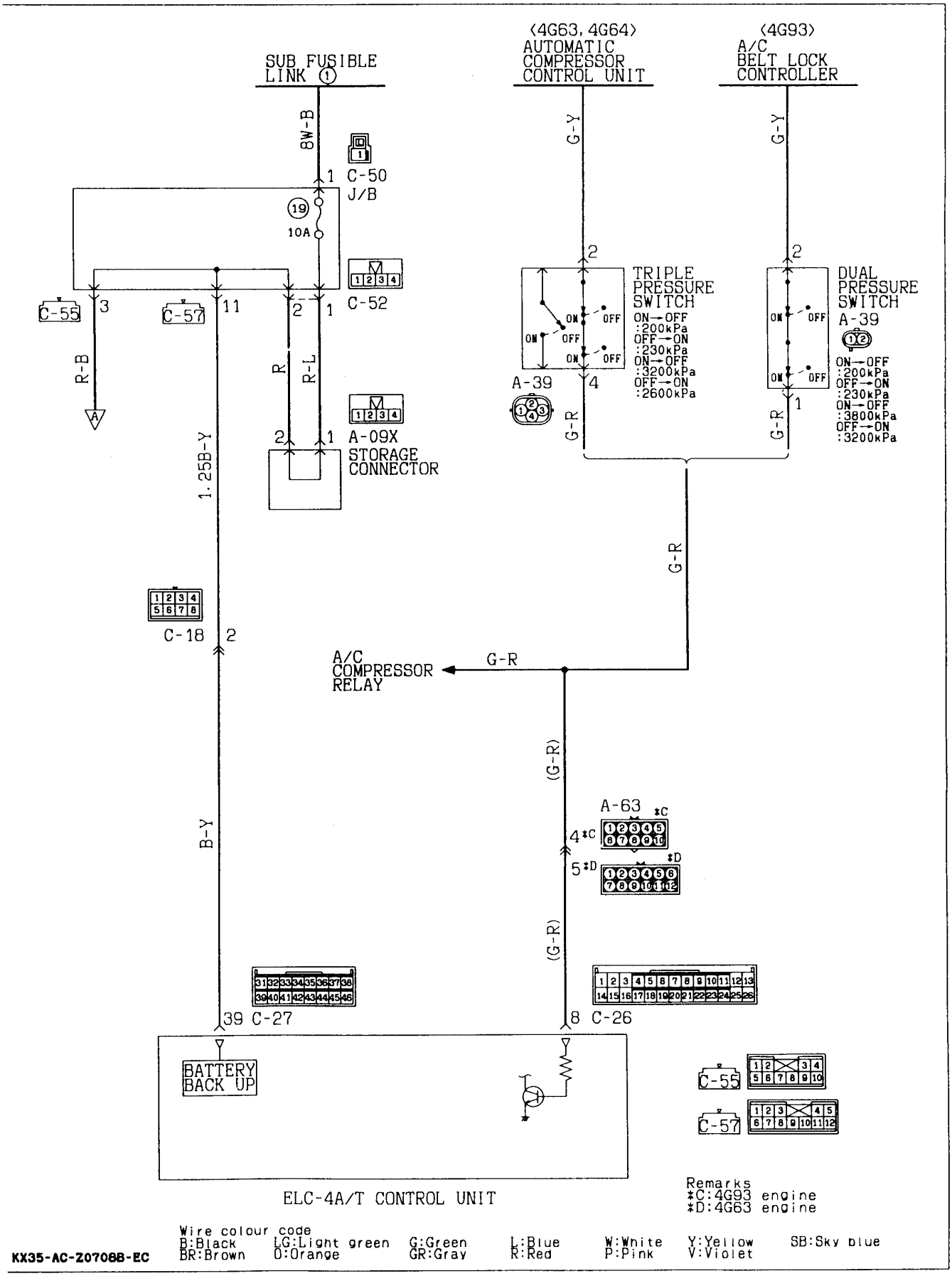
A/C Belt Lock Controller HI Signal Output Conditions

Ignition switch (IG_2)	ON	Remarks (1) The A/C belt lock controller outputs a LO signal (0 V) if any one of the switches and sensors is deactivated. (2) The * marked device measures the temperature of the intake air, and according to the control characteristics of the the magnetic clutch for the compressor, the automatic compressor control unit outputs the "HI" signal (System voltage).
Blower switch	ON	
Air conditioner switch	ON (ECONO or A/C)	
Air inlet sensor	*	
Air thermo sensor	*	

Fan Operating Conditions

Automatic compressor control unit output	Switch position	Fan operating condition	
	Thermo sensor (for radiator fan) [ON with 85°C or higher]	Radiator fan	Condenser fan
LO (0V)	OFF	OFF	OFF
	ON	HIGH	OFF
HI (System voltage)	OFF	OFF	HIGH
	ON	HIGH	HIGH

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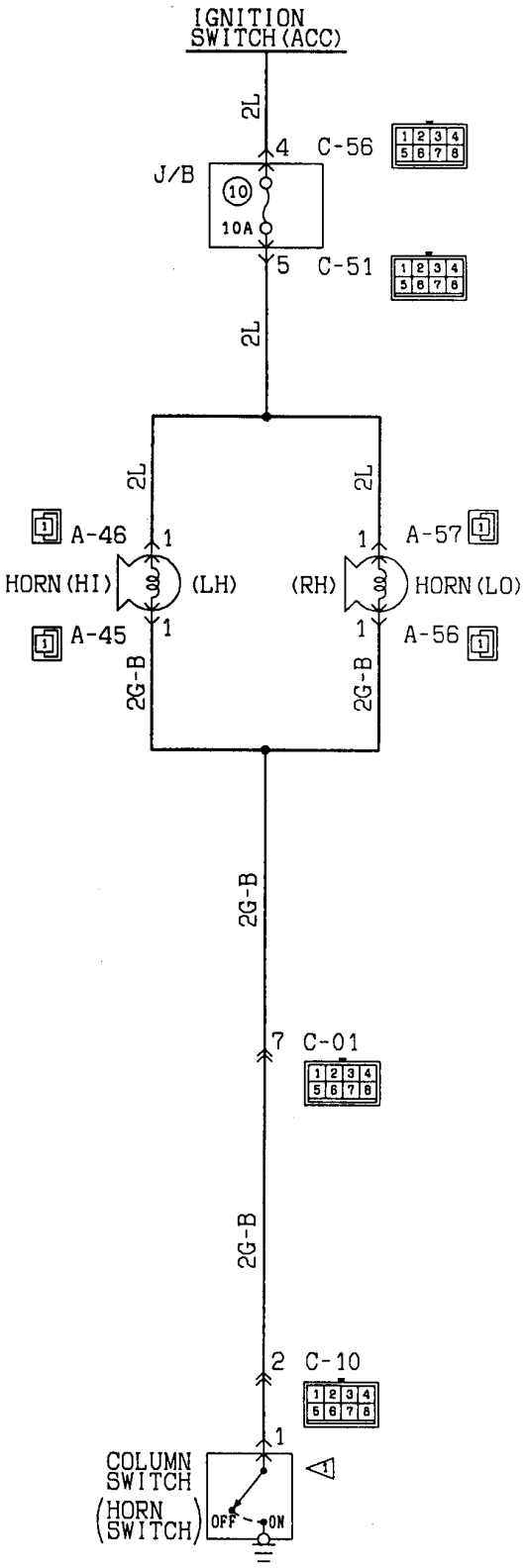
Wire colour code
B:Black LG:Light green G:Green L:Blue W:White Y:Yellow SB:Sky blue
BR:Brown O:Orange GR:Gray R:Red P:Pink V:Violet

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HORN

Vehicles without SRS

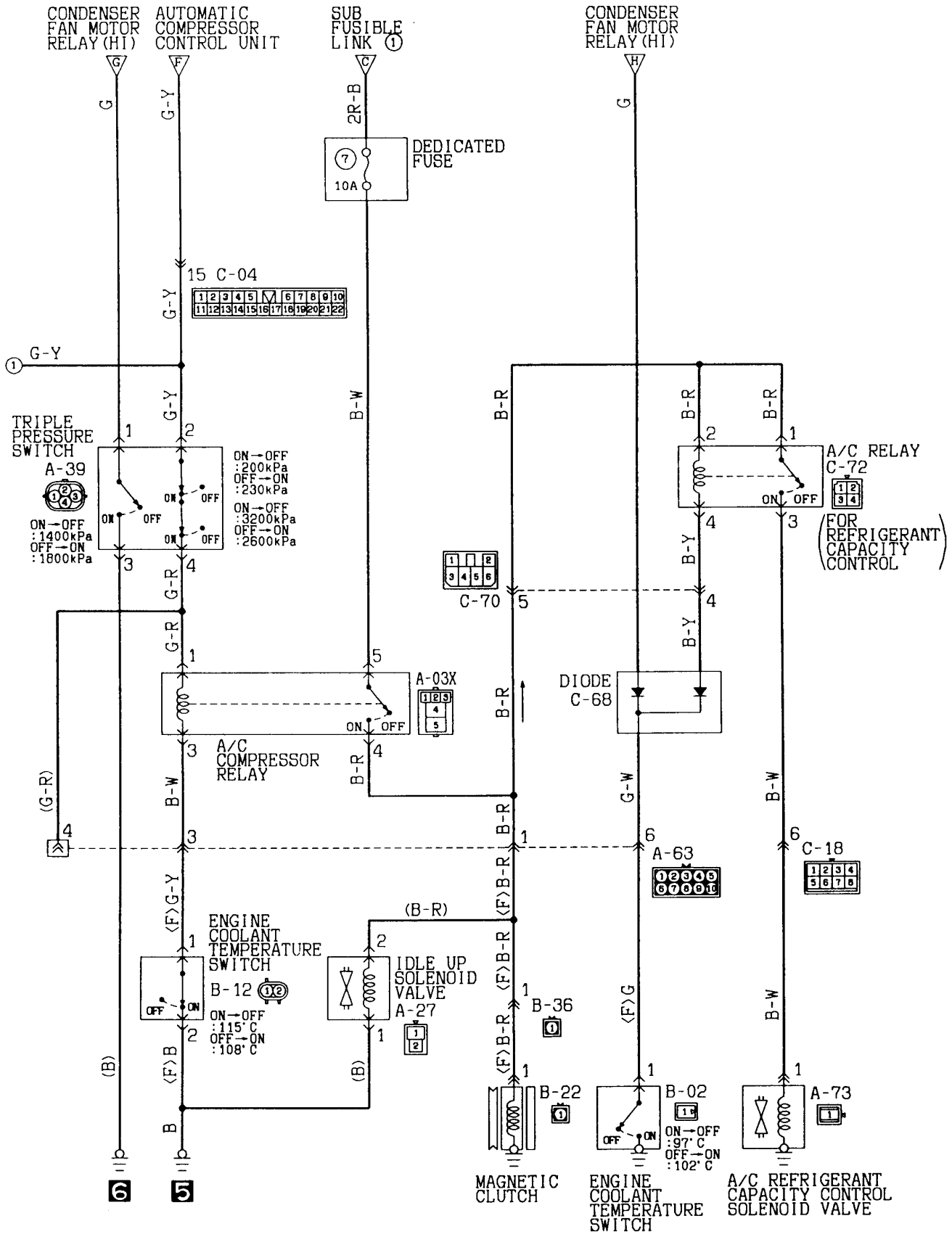


Wire colour code

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		

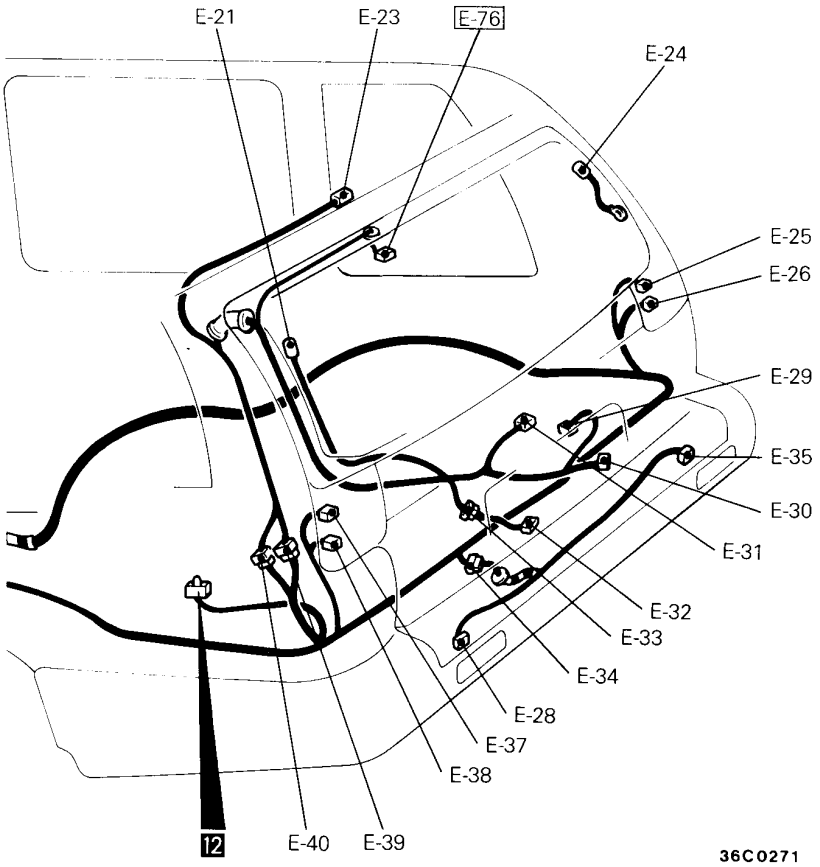
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CONDENSER FAN MOTOR RELAY(HI)
AUTOMATIC COMPRESSOR CONTROL UNIT
SUB FUSIBLE LINK ①
CONDENSER FAN MOTOR RELAY(HI)
DEDICATED FUSE
10A
15 C-04
TRIPLE PRESSURE SWITCH A-39
ON→OFF :1400kPa
OFF→ON :1800kPa
ON→OFF :200kPa
OFF→ON :230kPa
ON→OFF :3200kPa
OFF→ON :2600kPa
A/C RELAY C-72
(FOR REFRIGERANT CAPACITY CONTROL)
C-70
A-03X
A/C COMPRESSOR RELAY
DIODE C-68
A-63
C-18
ENGINE COOLANT TEMPERATURE SWITCH
B-12
ON→OFF :115°C
OFF→ON :108°C
IDLE UP SOLENOID VALVE A-27
B-36
B-22
B-02
ON→OFF :97°C
OFF→ON :102°C
A-73
MAGNETIC CLUTCH
ENGINE COOLANT TEMPERATURE SWITCH
A/C REFRIGERANT CAPACITY CONTROL SOLENOID VALVE
G
G-Y
2R-B
B-W
B-R
B-Y
G-R
G-W
(G-R)
(F)G-Y
(F)B-R
(B-R)
(F)G
(F)B
(B)
B
6
5

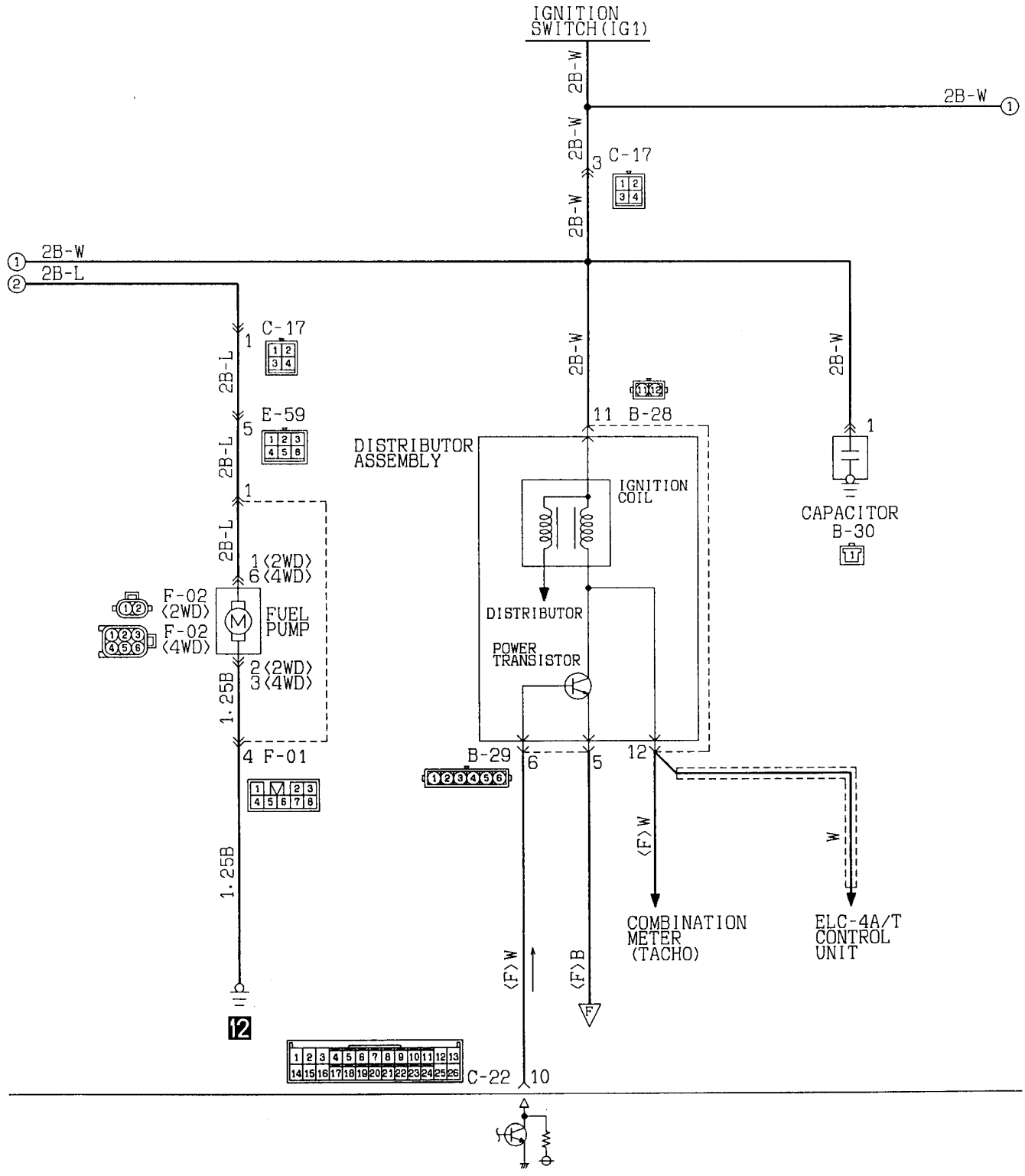
CIRCUIT DIAGRAM

Circuit diagrams			Description of changes
Main title	Subtitle	Ref. page	
CENTRALIZED JUNCTION		4-2	• The rated capacity of sub-fusible link No.4 has been changed from 30A to 40A. • The power supply circuit for the alternator (S terminal) has been changed. • A G sensor has been added to the load circuit for multi-purpose fuse No. 3. • The raced capacity of dedicated fuse No. 7 has been changed from 10A to 20A. <R.H. drive vehicles> • An ABS control unit has been added to the load circuit for multi-purpose fuse No. 17. • The ABS power relay has been eliminated from the load circuit for multi-purpose fuse No. 3.
POWER DISTRIBUTION SYSTEM		4-7	• The power supply circuit for the alternator (S terminal) has been changed. • A front fog lamp power circuit has been added. • The ABS system power circuit has been changed. • The rated capacity of sub-fusible link No. 4 has been changed from 30A to 40A.
STARTING SYSTEM	Petrol-powered vehicles	4-14	• The number of connector terminals on the combination front wiring harness and control wiring harness connector (A-63) has been changed from 10 to 12 for vehicles with 4G93 engine.
IGNITION SYSTEM	—	4-15	• The number of connector terminals on the combination instrument panel wiring harness and control wiring harness connector (D-07) has been changed from 6 to 8 for R.H. drive vehicles. • The number of connector terminals on the combination control wiring harness and main wiring harness connector (C-17) has been changed from 8 to 4.
CHARGING SYSTEM	4G93	4-16	• The power supply circuit for the alternator (S terminal) has been changed.
	4G63, 4G64 and 4D68	4-17	
GLOW SYSTEM	—	4-18	• The number of connector terminals on the combination control wiring harness and main wiring harness connector (C-17) has been changed from 8 to 4.



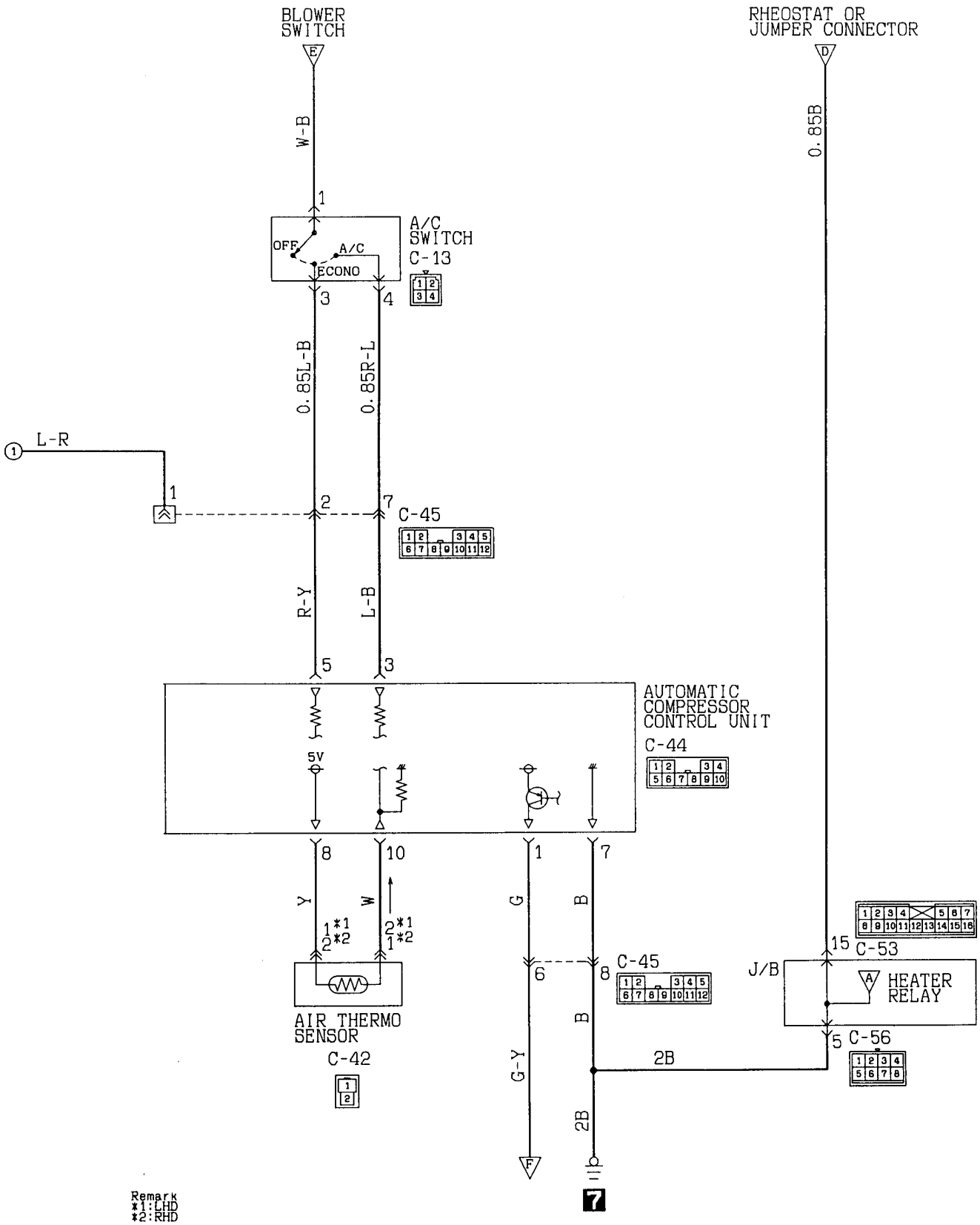
E-43	—
E-44	Rear door switch (LH)
E-45	Main wiring harness and assist wiring harness combination
E-46	—
E-47	Rear door lock actuator (LH)
E-48	—
E-49	—
E-50, E-51	No connection
E-52	Remote controlled mirror switch
E-53	ABS G sensor <4WD>
E-54	Parking brake switch
E-55	—
E-56	—
E-57	Front door switch (driver's side)
E-58, E-59, E-60	Main wiring harness and rear wiring harness combination
E-61	Front door lock actuator (LH)
E-62	No connection
E-63	Power window motor (LH)
E-64	Power window main switch
E-65	Front door wiring harness (LH) and main wiring harness combination
E-66	Remote controlled mirror (LH)
E-67	No connection
E-68	—
E-69	No connection
E-70 thru E-73	—
E-74, E-75	SRS diagnosis unit
E-76	High-mounted stop lamp

Remark
Connector numbers enclosed by a frame ☐ are newly added or transferred connectors.



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	



Remark
*1:LHD
*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	

Main circuit	Circuit classifications	Pub. No. PHDE9214 (Basic)	Pub. No. PHDE9214-C (Supplement)	Pub. No. PHDE9214-D (Supplement)	Pub. No. PHDE9214-E (Supplement)
LIGHTING MONITOR BUZZER	Vehicles with SRS	I	P	P	P
	Vehicles without SRS	I	P	P	P
HORN	Vehicles with SRS	I	P	P	P
	Vehicles without SRS	I	P	P	P
METER AND GAUGE	–	I	R	P	P
	4D68 <SPACE RUNNER>	N	N	N	A
BRAKE WARNING LAMP	–	I	R	P	P
	4D68 <SPACE RUNNER>	N	N	N	A
FUEL WARNING LAMP	–	I	R	P	P
OIL PRESSURE WARNING LAMP	–	I	R	P	P
FUEL FILTER WARNING LAMP	–	I	R	P	P
	4D68 <SPACE RUNNER>	N	N	N	A
ENGINE COOLANT TEMPERATURE WARNING LAMP	4D68	I	P	P	P
	4D68 <SPACE RUNNER>	N	N	N	A
LOW ENGINE OIL LEVEL WARNING LAMP	SPACE WAGON	I	P	P	P
POWER WINDOWS	SPACE RUNNER <L.H. drive vehicles>	I	P	P	P
	SPACE RUNNER <R.H. drive vehicles>	I	P	P	P
	SPACE WAGON <L.H. drive vehicles>	I	P	P	P
	SPACE WAGON <R.H. drive vehicles>	I	P	P	P
CENTRAL DOOR LOCKING SYSTEM	SPACE RUNNER <L.H. drive vehicles>	I	R	P	P
	SPACE RUNNER <R.H. drive vehicles>	I	R	P	P
	SPACE WAGON <L.H. drive vehicles>	I	R	P	P
	SPACE WAGON <R.H. drive vehicles>	I	R	P	P
TAILEGATE LOCKING SYSTEM	SPACE RUNNER	I	D	N	N
	SPACE WAGON	I	D	N	N
HEATER AND AIR CONDITIONER	4G93	I	R	P	P
	4G63 and 4G64	I	R	P	P
	4D68	I	R	P	P
	4D68 <SPACE RUNNER>	N	N	N	A
WINDSHIELD WIPER AND WASHER	Vehicles with SRS	I	R	P	P
	Vehicles without SRS	I	R	P	P
REAR WIPER AND WASHER	–	I	P	P	P
HEAD LAMP WASHER	–	I	P	P	P
DEFOGGER AND DOOR MIRROR HEATER	–	I	P	P	P