

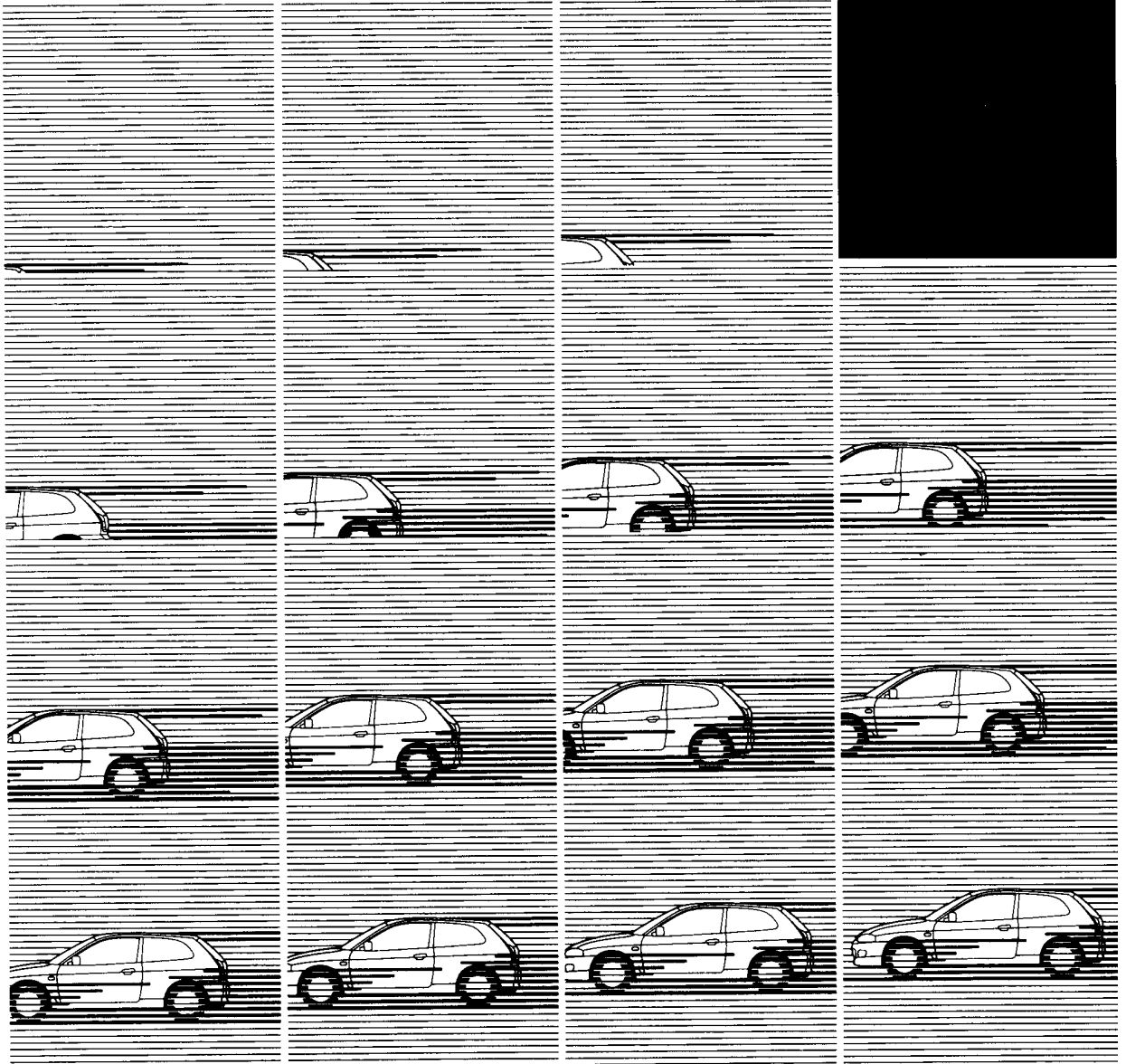


Workshop Manual

electrical wiring

SUPPLEMENT

COLT 2001



MITSUBISHI COLT

ELECTRICAL WIRING SUPPLEMENT

FOREWORD

This publication contains information on major changes which have occurred as a result of a model change for the COLT.

It contains only additions and changes to the original issue. For detailed information on inspection of the electrical system components, you should refer to the following publications as well as this manual if necessary.

Note that some wiring harness configuration diagrams and circuit diagrams are compilation diagrams containing information for different vehicle specifications, and actual diagrams may not be identical to those shown in the manual.

TECHNICAL INFORMATION MANUAL	PYME9501 PYME9501-A
WORKSHOP MANUAL	
ENGINE GROUP	PWEE□□□□ (Looseleaf edition)
CHASSIS GROUP	PWME9511 (Basic) PWME9511-A (Supplement) PWME9511-B (Supplement) PWME9511-C (Supplement)
BODY REPAIR MANUAL	PBME9501
ELECTRICAL WIRING	PHME9511 (Basic) PHME9511-A (Supplement) PHME9511-B (Supplement)
PARTS CATALOGUE	B606F008A□

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

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HOW TO READ THE WIRING DIAGRAMS	1
WIRING HARNESS CONFIGURATION DIAGRAMS	2
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WARNINGS REGARDING SERVICING OF SUPPLEMENTAL RESTRAINT SYSTEM (SRS) EQUIPPED VEHICLE

WARNING!

- (1) Improper service or maintenance of any component of the SRS or any SRS-related component, can lead to personal injury or death to service personnel (from inadvertent firing of the air bag) or to the driver and passenger (from rendering the SRS inoperative).**
- (2) SRS components should not be subjected to heat over 93 °C, so remove the SRS-ECU, air bag module (driver's side and front passenger's side) and clock spring before drying or baking the vehicle after painting.**
- (3) Service or maintenance of any SRS component or SRS-related component must be performed only at an authorized MITSUBISHI dealer.**
- (4) MITSUBISHI dealer personal must thoroughly review this manual, and especially its GROUP 52B—Supplemental Restraint System (SRS), before beginning any service or maintenance of any component of the SRS or any SRS-related component.**

HOW TO USE THIS MANUAL

CONTENTS

The preceding page contains GROUP INDEX that 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 number can be found on the top left or right of each page.

OUTLINE OF CHANGES

CONTENTS

WIRING HARNESS CONFIGURATION DIAGRAMS	2
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CIRCUIT DIAGRAMS	3
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WIRING HARNESS CONFIGURATION DIAGRAMS

Connector symbol	Name		Reference page	Description of changes
A	ENGINE COMPARTMENT	4G13 <L.H. drive vehicles>	2-2	<ul style="list-style-type: none"> The following connectors have been abolished to correspond to the abolition of A/T vehicles. <ul style="list-style-type: none"> A/T control solenoid valve assembly (A-22) Inhibitor switch <A/T> (A-27) Output shaft speed sensor <A/T> (A-62) Battery cable wiring harness and control wiring harness combination <A/T> (A-66) Input shaft speed sensor <A/T> (A-67) The following other connectors have been abolished. <ul style="list-style-type: none"> Distributor assembly (A-68) Intake air temperature sensor (A-86) Oxygen sensor (A-69) The following connectors have been added. <ul style="list-style-type: none"> Camshaft position sensor (A-70) Ignition coil 1 (A-73) Ignition coil 2 (A-79) Crank angle sensor (A-84) Oxygen sensor (front) (A-106) Ignition failure sensor (A-107) Oxygen sensor (rear) (A-108) The junction points for the following connectors have been changed. <ul style="list-style-type: none"> Vacuum sensor (A-54) Purge control solenoid valve (A-81) EGR solenoid valve (A-88)
		4G13 <R.H. drive vehicles>	2-4	
		4G92 <L.H. drive vehicles>	2-6	<ul style="list-style-type: none"> The following connectors have been abolished to correspond to the abolition of the MVV system. <ul style="list-style-type: none"> Oxygen sensor <MVV> (A-69) Air bypass solenoid valve <MVV> (A-55) Air flow sensor <MVV> (A-61) EGR solenoid valve <MVV> (A-89) The fuel pump check connector (A-59) has been abolished. The following connectors have been added. <ul style="list-style-type: none"> Oxygen sensor (front) (A-106) Ignition failure sensor (A-107) Oxygen sensor (rear) (A-108)
		4G92 <R.H. drive vehicles>	2-8	
B	DASH PANEL	L.H. drive vehicles	2-10	<ul style="list-style-type: none"> Engine-A/T-ECU connectors (B-92, B-93, B-94 and B-95) have been added and the ELC-4A/T-ECU connectors (B-39, B-41 and B-42) have been abolished to correspond to the adoption of engine-ECU and ELC-4A/T-ECU comprehensive control. The oxygen sensor (rear) connector (B-40) has been abolished. <4G13>
		R.H. drive vehicles	2-12	

SINGLE PART INSTALLATION POSITION

Location of changes	Reference page	Description of changes
ECU	3-2	<ul style="list-style-type: none"> • An engine-A/T-ECU installation position has been added.
SENSOR	3-2	<ul style="list-style-type: none"> • The oxygen sensor installation position has been changed. • An ignition failure sensor installation position has been added. • Installation positions for the following connectors have been added to correspond to changes to the engine control system. <4G13> <ul style="list-style-type: none"> • Camshaft position sensor • Crank angle sensor • Vacuum sensor
SOLENOID AND SOLENOID VALVE	3-4	<ul style="list-style-type: none"> • The EGR solenoid valve and purge control solenoid valve installation positions have been changed.

CIRCUIT DIAGRAMS

Main title	Sub title	Reference page	Description of changes
IGNITION SYSTEM	4G13	4-2	<ul style="list-style-type: none"> • The circuit has been changed to correspond to the following changes. <ul style="list-style-type: none"> • Abolition of the distributor assembly • Addition of an ignition failure sensor • Addition of an ignition coil
	4G92	4-4	<ul style="list-style-type: none"> • The circuit has been changed to correspond to engine-ECU and ELC-4A/T-ECU having been changed to engine-A/T-ECU comprehensive control. • The circuit has been changed to correspond to the addition of an ignition failure sensor.
CHARGING SYSTEM	–	4-6	<ul style="list-style-type: none"> • The circuit has been changed to correspond to engine-ECU and ELC-4A/T-ECU having been changed to engine-A/T-ECU comprehensive control.
MPI SYSTEM	4G13	4-8	<ul style="list-style-type: none"> • The circuit has been changed to correspond to the following changes. <ul style="list-style-type: none"> • Changes to the ignition system • Elimination of the idle switch • Elimination of dedicated A/T vehicle circuits due to abolition of A/T vehicles
	4G92-M/T	4-14	<ul style="list-style-type: none"> • The circuit has been changed to correspond to the following changes. <ul style="list-style-type: none"> • Changes to the ignition system • Elimination of the idle switch • Abolition of the MVV system
	4G92-A/T	4-20	<ul style="list-style-type: none"> • The circuit has been changed to correspond to engine-ECU and ELC-4A/T-ECU having been changed to engine-A/T-ECU comprehensive control.

4 OUTLINE OF CHANGES – Circuit Diagrams/Table of Circuit Diagrams

Main title	Sub title	Reference page	Description of changes
ECU 4-SPEED AUTOMATIC TRANSMISSION	–	4-26	<ul style="list-style-type: none"> The circuit has been changed to correspond to engine-ECU and ELC-4A/T-ECU having been changed to engine-A/T-ECU comprehensive control.
IMMOBILIZER SYSTEM	–	4-34	

TABLE OF CIRCUIT DIAGRAMS

This table of circuit diagrams indicates those circuit in which changes and/or additions, etc. have been made; the circuit are here listed in the sequence in which they are presented in the wiring diagrams. Please use this table for reference when following maintenance or repair procedures.

NOTE

- (1) A (Added) : This circuit has been newly added.
 (1) R (Revised) : This circuit has been changed.
 (3) D (Deleted) : This circuit has been deleted.
 (3) I (Included) : This circuit is included in the previous manual(s).
 (3) N (Not applicable) : This circuit is not included in this manual.
 (6) P (Previous manual) : This circuit is not included, because it has not been changed.
 Refer to the previous manual(s).

Main circuit	Circuit classifications	Previous manual: Pub. No. PHME9511 (Basic)	Previous manual: Pub. No. PHME9511-A (Supplement)	Previous manual: Pub. No. PHME9511-B (Supplement)	This manual: Pub. No. PHME9511-C (Supplement)
JUNCTION BLOCK (J/B)	–	I	P	P	P
JOINT CONNECTOR (J/C)	–	I	P	P	P
CENTRALIZED JUNCTION	–	I	R	P	P
POWER DISTRIBUTION SYSTEM	Vehicles with daytime running lamp	I	R	P	P
	Vehicles without daytime running lamp	I	R	P	P
STARTING SYSTEM	–	I	P	P	P
IGNITION SYSTEM	4G13	I	P	P	R
	4G92	I	P	P	R
CHARGING SYSTEM	–	I	P	P	R
MPI SYSTEM	4G13 <L.H. drive vehicle>	I	R	R	D
	4G13 <R.H. drive vehicle>	I	R	R	D
	4G13	N	N	N	A
	4G92 <L.H. drive vehicle>	I	R	R	D
	4G92 <R.H. drive vehicle>	I	R	R	D
	4G92-M/T	N	N	N	A
	4G92-A/T	N	N	N	A
COOLING SYSTEM	–	I	P	P	P

OUTLINE OF CHANGES – Table of Circuit Diagrams

Main circuit	Circuit classifications	Previous manual: Pub. No. PHME9511 (Basic)	Previous manual: Pub. No. PHME9511-A (Supplement)	Previous manual: Pub. No. PHME9511-B (Supplement)	This manual: Pub. No. PHME9511-C (Supplement)
ECL 4-SPEED AUTOMATIC TRANSMISSION	L.H. drive vehicle	I	R	R	D
	R.H. drive vehicle	I	R	R	D
	–	N	N	N	A
HEADLAMP	Vehicle with daytime running lamp	I	R	P	P
	Vehicle without daytime running lamp	I	R	P	P
TAIL LAMP, POSITION LAMP AND LICENCE PLATE LAMP	Hatchback <Vehicles with daytime running>	I	P	P	P
	Hatchback <Vehicles without daytime running>	I	P	P	P
	Sedan <Vehicles with daytime running>	I	P	P	P
	Sedan <Vehicles without daytime running>	I	P	P	P
FRONT FOG LAMP	Vehicles with daytime running lamp	I	R	P	P
	L.H. drive vehicles without daytime running lamp	I	R	P	P
	R.H. drive vehicles	I	R	P	P
REAR FOG LAMP	Vehicles with daytime running lamp	I	R	P	P
	L.H. drive vehicles without daytime running lamp	I	R	P	P
	R.H. drive vehicles	I	R	P	P
ROOM LAMP AND LUGGAGE COMPARTMENT LAMP	Hatchback	I	P	P	P
	Sedan	I	P	P	P
HEADLAMP LEVELING SYSTEM	Hatchback <L.H. drive vehicles>	I	P	P	P
	Hatchback <R.H. drive vehicles>	I	P	P	P
	Sedan <L.H. drive vehicles>	I	P	P	P
	Sedan <R.H. drive vehicles>	I	P	P	P
TURN-SIGNAL LAMP AND HAZARD WARNING LAMP	L.H. drive vehicles	I	P	P	P
	R.H. drive vehicles	I	P	P	P
STOP LAMP	Hatchback	I	P	P	P
	Sedan	I	P	P	P
BACK-UP LAMP	–	I	P	P	P
HORN	Vehicle with SRS	I	P	P	P
	Vehicle without SRS	I	P	P	P
METER AND GAUGE	–	I	P	P	P
FUEL WARNING LAMP	–	I	P	P	P
OIL PRESSURE WARNING LAMP	–	I	P	P	P

OUTLINE OF CHANGES – Table of Circuit Diagrams

Main circuit	Circuit classifications	Previous manual: Pub. No. PHME9511 (Basic)	Previous manual: Pub. No. PHME9511-A (Supplement)	Previous manual: Pub. No. PHME9511-B (Supplement)	This manual: Pub. No. PHME9511-C (Supplement)
BRAKE WARNING LAMP	–	I	P	P	P
CENTER DOOR LOCKING SYSTEM	L.H. drive vehicle	I	R	P	P
	R.H. drive vehicle	I	R	P	P
POWER WINDOWS	Hatchback	I	P	P	P
	Sedan	I	P	P	P
HEATER	–	I	P	P	P
AIR CONDITIONER	–	I	P	P	P
WINDSHIELD WIPER AND WASHER	L.H. drive vehicle	I	P	P	P
	R.H. drive vehicle	I	P	P	P
REAR WIPER AND WASHER	–	I	P	P	P
HEADLAMP WASHER	–	I	P	P	P
DEFOGGER AND DOOR MIRROR HEATER	–	I	P	P	P
REMOTE CONTROLLED MIRROR	L.H. drive vehicle	I	P	P	P
	R.H. drive vehicle	I	P	P	P
RADIO AND TAPE PLAYER	–	I	P	P	P
CLOCK	L.H. drive vehicle	I	P	P	P
	R.H. drive vehicle	I	P	P	P
CIGARETTE LIGHTER	–	I	P	P	P
ANTI-SKID BRAKING SYSTEM (ABS)	L.H. drive vehicle	I	R	R	P
	R.H. drive vehicle	I	R	R	P
SUNROOF	–	I	P	P	P
HEATED SEAT	–	I	P	P	P
IMMOBILIZER SYSTEM	–	I	R	P	R
RHEOSTAT	–	I	P	P	P
SUPPLEMENTAL RESTRAINT SYSTEM (SRS)	–	I	D	P	P
	Vehicle without side air bag	N	A	P	P
	Vehicle with side bag	N	A	P	P
LIGHTING MONITOR BUZZER	–	I	P	P	P

HOW TO READ THE WIRING DIAGRAMS

CONTENTS

MODELS 1-2 HOW TO READ CIRCUIT DIAGRAMS 1-2



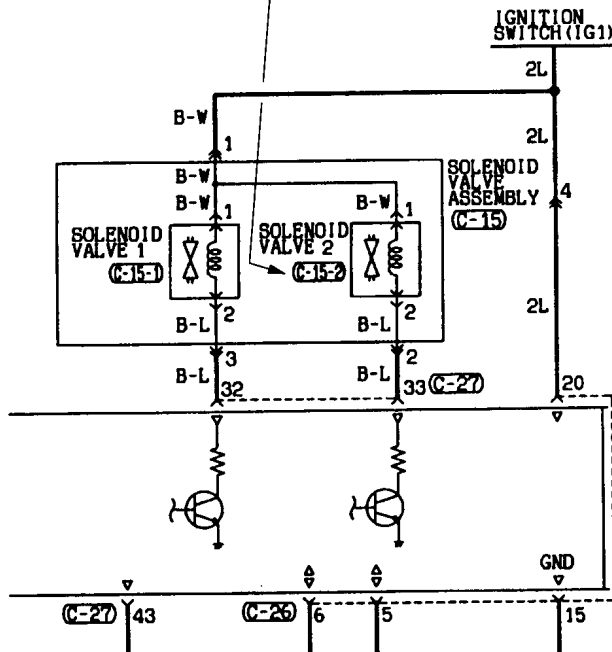
MODELS

<Hatchback>

Model code		Engine model	Transmission model	Fuel supply system
CJ1A	MNDEL6	4G13-SOHC (1,298 mL)	F5M41 (5M/T)	MPI
	MNDER6			
	MNJEL6			
	MNJER6			
CJ4A	MNJEL6	4G92-SOHC (1,597 mL)	F4A41 (4A/T)	
	MNJER6			
	MRJEL6			
	MRJER6			

HOW TO READ CIRCUIT DIAGRAMS

Indicates a wiring connector which is inside the equipment and which is not shown in the wiring harness configuration diagram.



WIRING HARNESS CONFIGURATION DIAGRAMS

CONTENTS

ENGINE COMPARTMENT

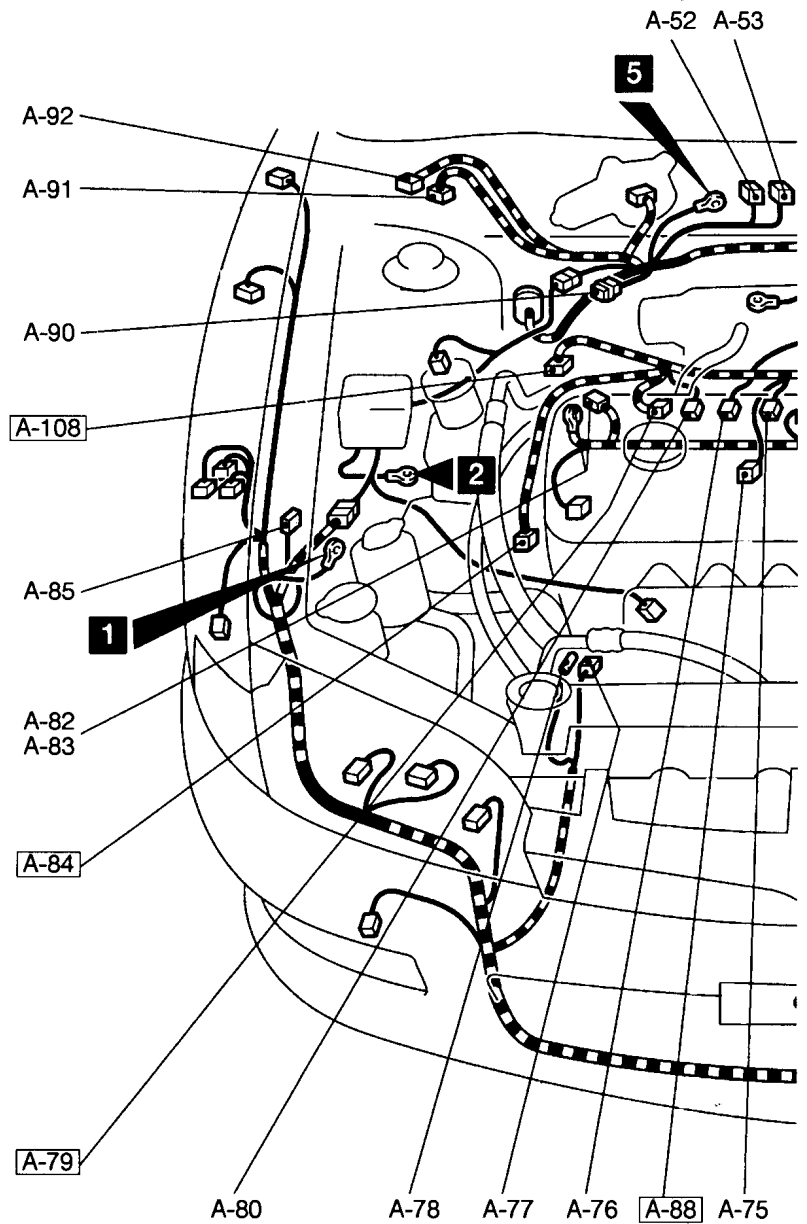
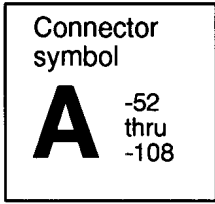
4G13 <L.H. drive vehicles>	2-2
4G13 <R.H. drive vehicles>	2-4
4G92 <L.H. drive vehicles>	2-6
4G92 <R.H. drive vehicles>	2-8

DASH PANEL

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

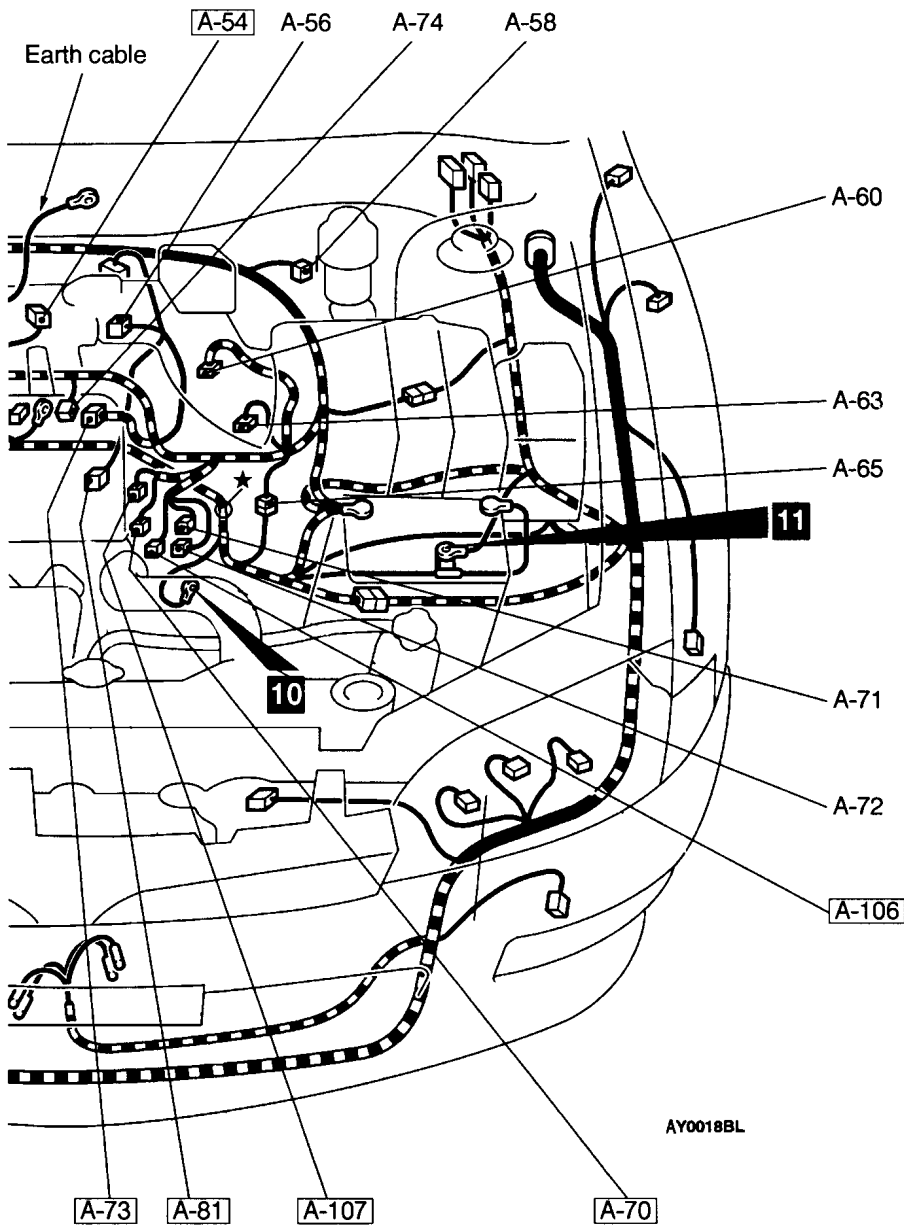
ENGINE COMPARTMENT

4G13 <L.H. drive vehicles>



Connector colour code
 B:Black
 Y:Yellow
 L:Blue
 G:Green
 R:Red
 BR:Brown
 V:Violet
 O:Orange
 GR:Gray
 None: Milk white

- | | | | |
|-------------|---|-------------|---------------------------------------|
| A-52 (5-B) | ABS valve relay | A-70 (3-B) | Camshaft position sensor |
| A-53 (5-B) | ABS motor relay | A-71 (1-B) | Engine coolant temperature gauge unit |
| A-54 (4) | Vacuum sensor | A-72 (2-B) | Engine coolant temperature sensor |
| A-56 (6-B) | Idle speed control servo | A-73 (3-B) | Ignition coil 1 |
| A-58 (2-B) | Brake fluid level sensor | A-74 (2-GR) | Injector 4 |
| A-60 (3-B) | Vehicle speed sensor | A-75 (2-GR) | Injector 3 |
| A-63 (2-B) | Back-up lamp switch | A-76 (2-GR) | Injector 2 |
| A-65 (4-GR) | Battery cable wiring harness and control wiring harness combination | | |



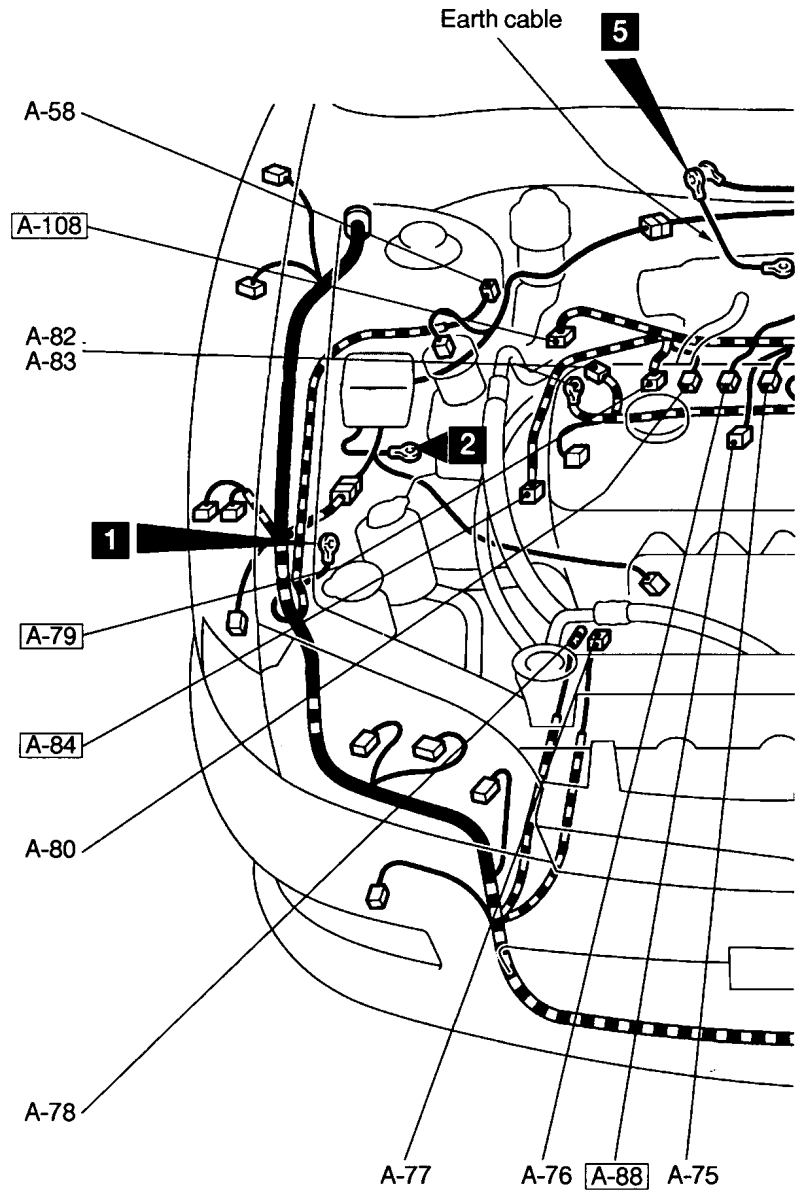
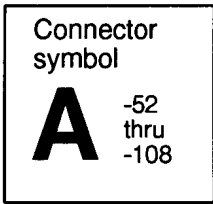
- A-77 (1-B) A/C refrigerant temperature switch and magnetic clutch
- A-78 (1) Power steering oil pressure switch
- A-79 (3-GR) Ignition coil 2
- A-80 (2-GR) Injector 1
- A-81 (2-B) Purge control solenoid valve
- A-82 (1) Alternator
- A-83 (4-GR) Alternator
- A-84 (3-GR) Crank angle sensor
- A-85 (6-B) Headlamp washer relay
- A-88 (2-BR) EGR solenoid valve

- A-90 (1-L) Engine speed detection connector
- A-91 (2-B) ABS hydraulic unit
- A-92 (8-B) ABS hydraulic unit
- A-106 (4-B) Oxygen sensor (front)
- A-107 (4-B) Ignition failure sensor
- A-108 (4-B) Oxygen sensor (rear)

NOTE
Connector numbers in boxes are for connectors which have been changed or added.

ENGINE COMPARTMENT

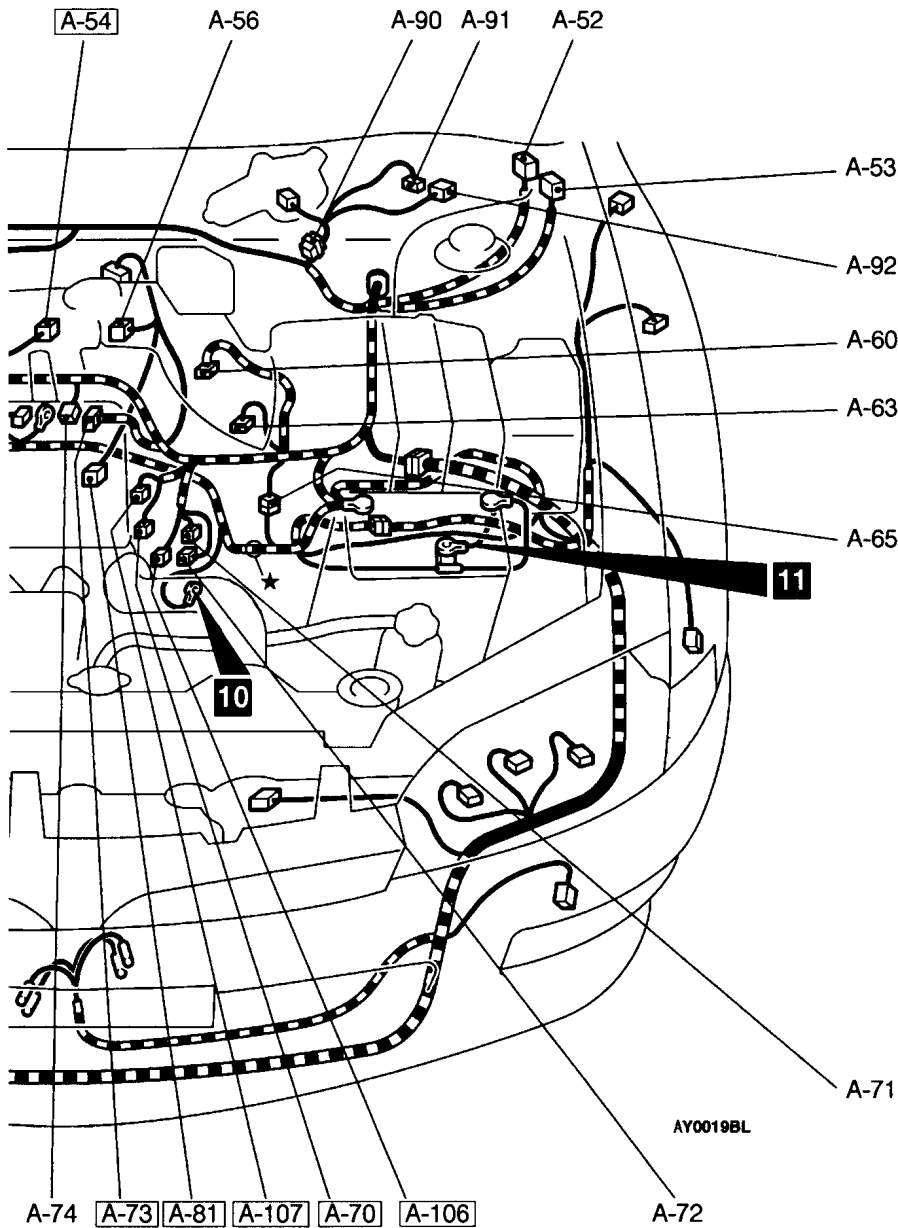
4G13 <R.H. drive vehicles>



Connector colour code

- B:Black
- Y:Yellow
- L:Blue
- G:Green
- R:Red
- BR:Brown
- V:Violet
- O:Orange
- GR:Gray
- None: Milk white

- | | | | |
|-------------|---|-------------|---------------------------------------|
| A-52 (6) | ABS valve relay | A-70 (3-B) | Camshaft position sensor |
| A-53 (5) | ABS motor relay | A-71 (1-B) | Engine coolant temperature gauge unit |
| A-54 (4-B) | Vacuum sensor | A-72 (2-B) | Engine coolant temperature sensor |
| A-56 (6-B) | Idle speed control servo | A-73 (3-GR) | Ignition coil 1 |
| A-58 (2-B) | Brake fluid level sensor | A-74 (2-GR) | Injector 4 |
| A-60 (3-B) | Vehicle speed sensor | A-75 (2-GR) | Injector 3 |
| A-63 (2-B) | Back-up lamp switch | A-76 (2-GR) | Injector 2 |
| A-65 (4-GR) | Battery cable wiring harness and control wiring harness combination | | |



- A-77 (1) A/C refrigerant temperature switch and magnetic clutch
- A-78 (1) Power steering oil pressure switch
- A-79 (3-GR) Ignition coil 2
- A-80 (2-GR) Injector 1
- A-81 (2-B) Purge control solenoid valve
- A-82 (1) Alternator
- A-83 (4-GR) Alternator
- A-84 (3-GR) Crank angle sensor
- A-88 (2-BR) EGR solenoid valve

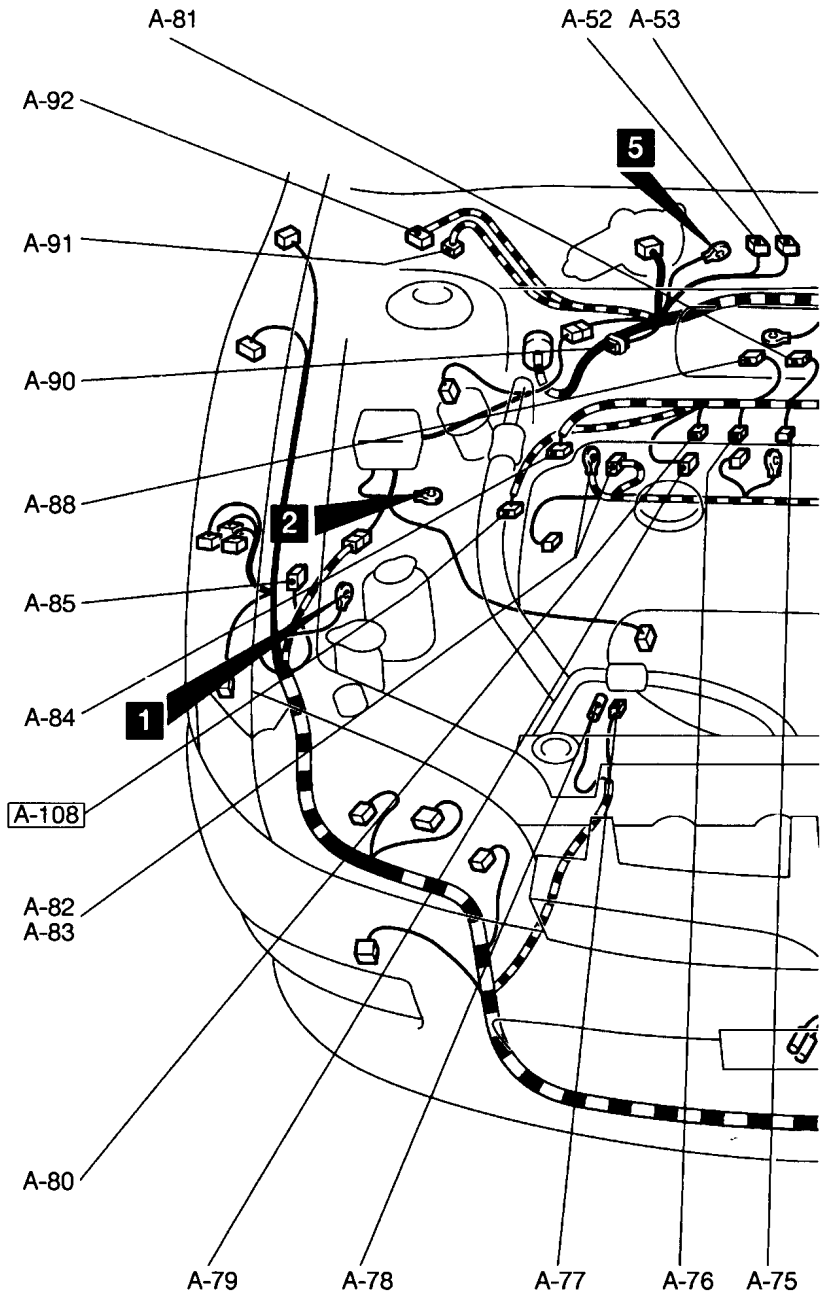
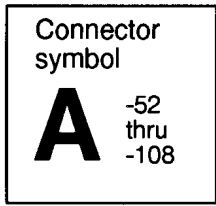
- A-90 (1-L) Engine speed detection connector
- A-91 (2-B) ABS hydraulic unit
- A-92 (8-B) ABS hydraulic unit
- A-106 (4-B) Oxygen sensor (front)
- A-107 (4-B) Ignition failure sensor
- A-108 (4-B) Oxygen sensor (rear)

NOTE

Connector numbers in boxes are for connectors which have been changed or added.

ENGINE COMPARTMENT

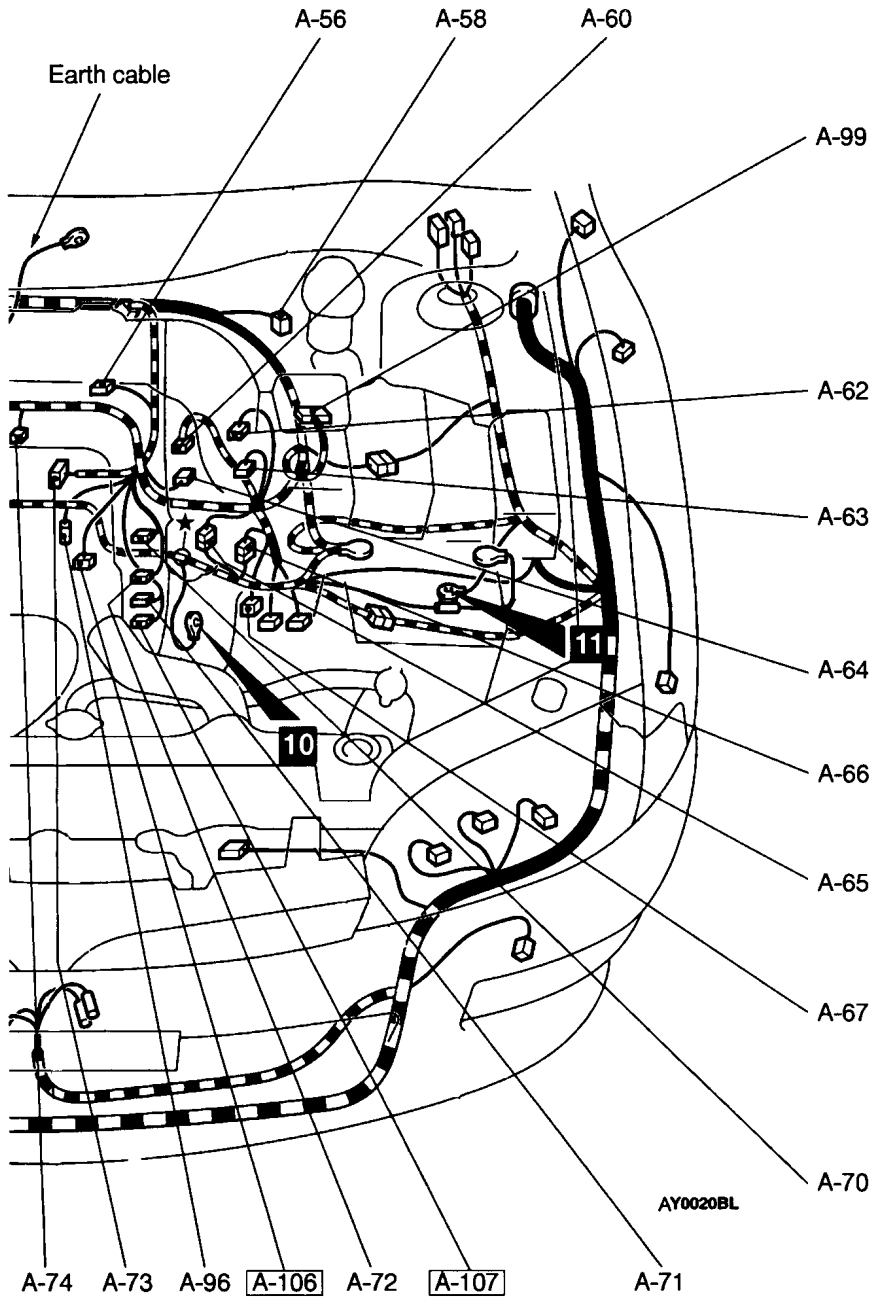
4G92 <L.H. drive vehicles>



Connector colour code

- B:Black
- Y:Yellow
- L:Blue
- G:Green
- R:Red
- BR:Brown
- V:Violet
- O:Orange
- GR:Gray
- None: Milk white

A-52 (5-B)	ABS valve relay	A-65 (4-GR)	Battery cable wiring harness and control wiring harness combination <M/T>
A-53 (5-B)	ABS motor relay	A-66 (4-GR)	Battery cable wiring harness and control wiring harness combination <A/T>
A-56 (6-B)	Idle speed control servo	A-67 (3-B)	Input shaft speed sensor <A/T>
A-58 (2-B)	Brake fluid level sensor	A-70 (3-B)	Camshaft position sensor
A-60 (3-B)	Vehicle speed sensor	A-71 (1-B)	Engine coolant temperature gauge unit
A-62 (3-GR)	Output shaft speed sensor <A/T>	A-72 (2-B)	Engine coolant temperature sensor
A-63 (2)	Back-up lamp switch <M/T>		
A-64 (2-GR)	Detonation sensor		



- A-73 (3-GR) Ignition coil 1
- A-74 (2-GR) Injector 4
- A-75 (2-GR) Injector 3
- A-76 (2-GR) Injector 2
- A-77 (1-B) A/C refrigerant temperature switch and magnetic clutch
- A-78 (1) Power steering oil pressure switch
- A-79 (3-GR) Ignition coil 2
- A-80 (2-GR) Injector 1
- A-81 (2-B) Purge control solenoid valve
- A-82 (1) Alternator
- A-83 (4-GR) Alternator
- A-84 (3-GR) Crank angle sensor
- A-85 (6-B) Headlamp washer relay

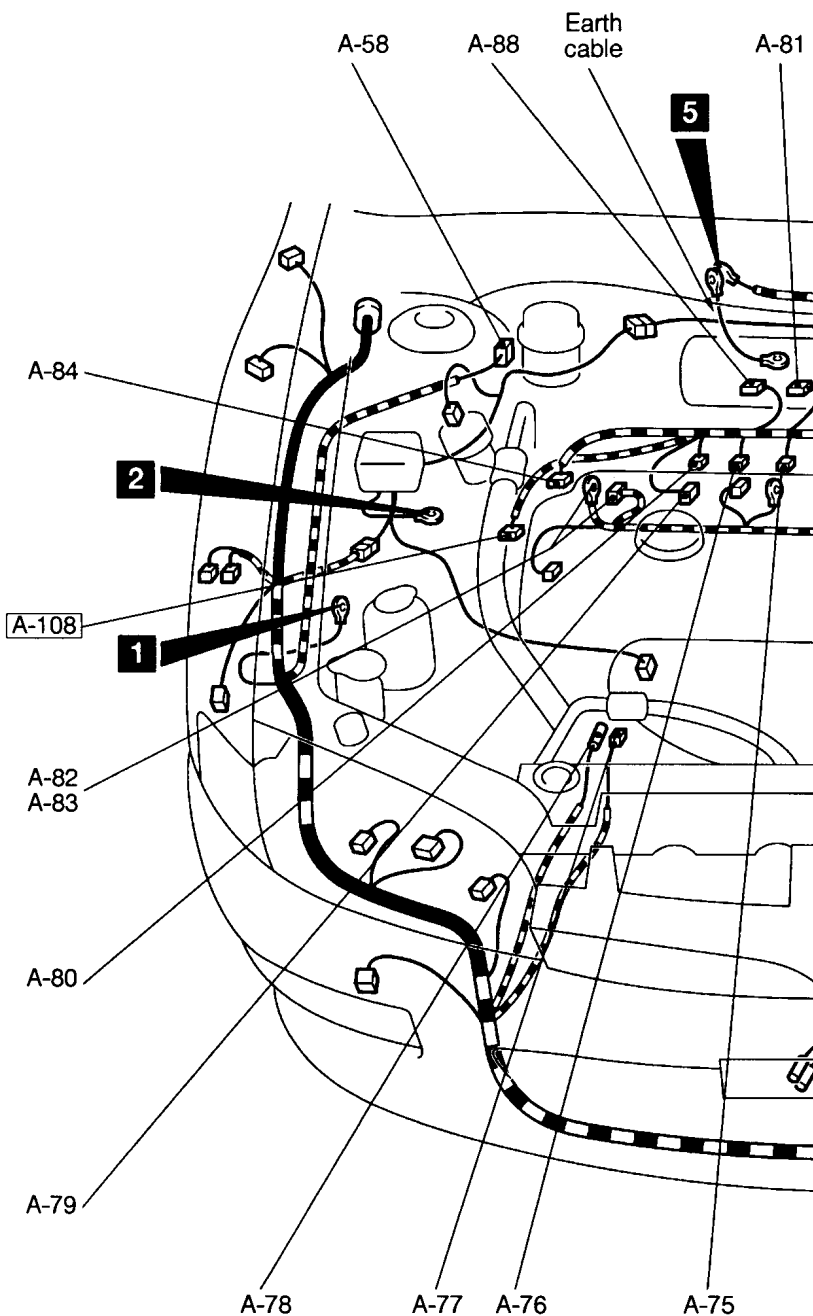
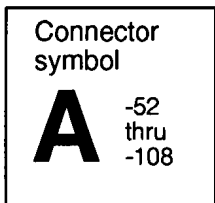
- A-88 (2-BR) EGR solenoid valve
- A-90 (1-L) Engine speed detection connector
- A-91 (2-B) ABS hydraulic unit
- A-92 (8-B) ABS hydraulic unit
- A-96 (1-B) Capacitor
- A-99 (7-B) Air flow sensor
- A-106 (4-B) Oxygen sensor (front)
- A-107 (4-B) Ignition failure sensor
- A-108 (4-B) Oxygen sensor (rear)

NOTE

Connector numbers in boxes are for connectors which have been newly added.

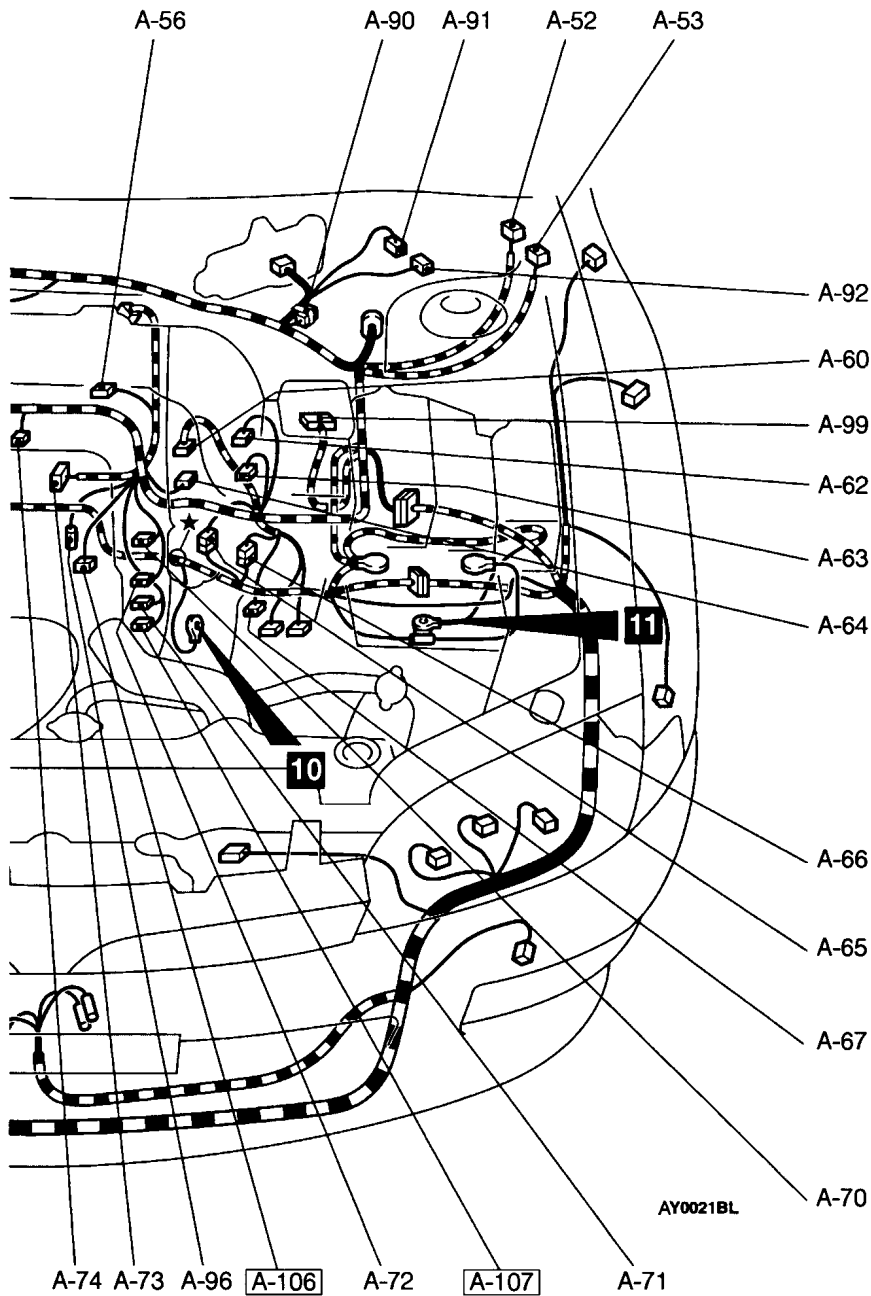
ENGINE COMPARTMENT

4G92 <R.H. drive vehicles>



- Connector colour code
- B:Black
 - Y:Yellow
 - L:Blue
 - G:Green
 - R:Red
 - BR:Brown
 - V:Violet
 - O:Orange
 - GR:Gray
 - None: Milk white

A-52 (6)	ABS valve relay	A-66 (4-GR)	Battery cable wiring harness and control wiring harness combination <A/T>
A-53 (5)	ABS motor relay	A-67 (3-B)	Input shaft position sensor <A/T>
A-56 (6-B)	Idle speed control servo	A-70 (3-B)	Camshaft position sensor
A-58 (2-B)	Brake fluid level sensor	A-71 (1-B)	Engine coolant temperature gauge unit
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A-62 (3-GR)	Output shaft speed sensor <A/T>	A-73 (3-GR)	Ignition coil 1
A-63 (2)	Back-up lamp switch <M/T>		
A-64 (2-GR)	Detonation		
A-65 (4-GR)	Battery cable wiring harness and control wiring harness combination <M/T>		



- A-74 (2-GR) Injector 4
- A-75 (2-GR) Injector 3
- A-76 (2-GR) Injector 2
- A-77 (1) A/C refrigerant temperature switch and magnetic clutch
- A-78 (1) Power steering oil pressure switch
- A-79 (3-GR) Ignition coil 2
- A-80 (2-GR) Injector 1
- A-81 (2-B) Purge control solenoid valve
- A-82 (1) Alternator
- A-83 (4-GR) Alternator
- A-84 (3-GR) Crank angle sensor
- A-88 (2-BR) EGR solenoid valve

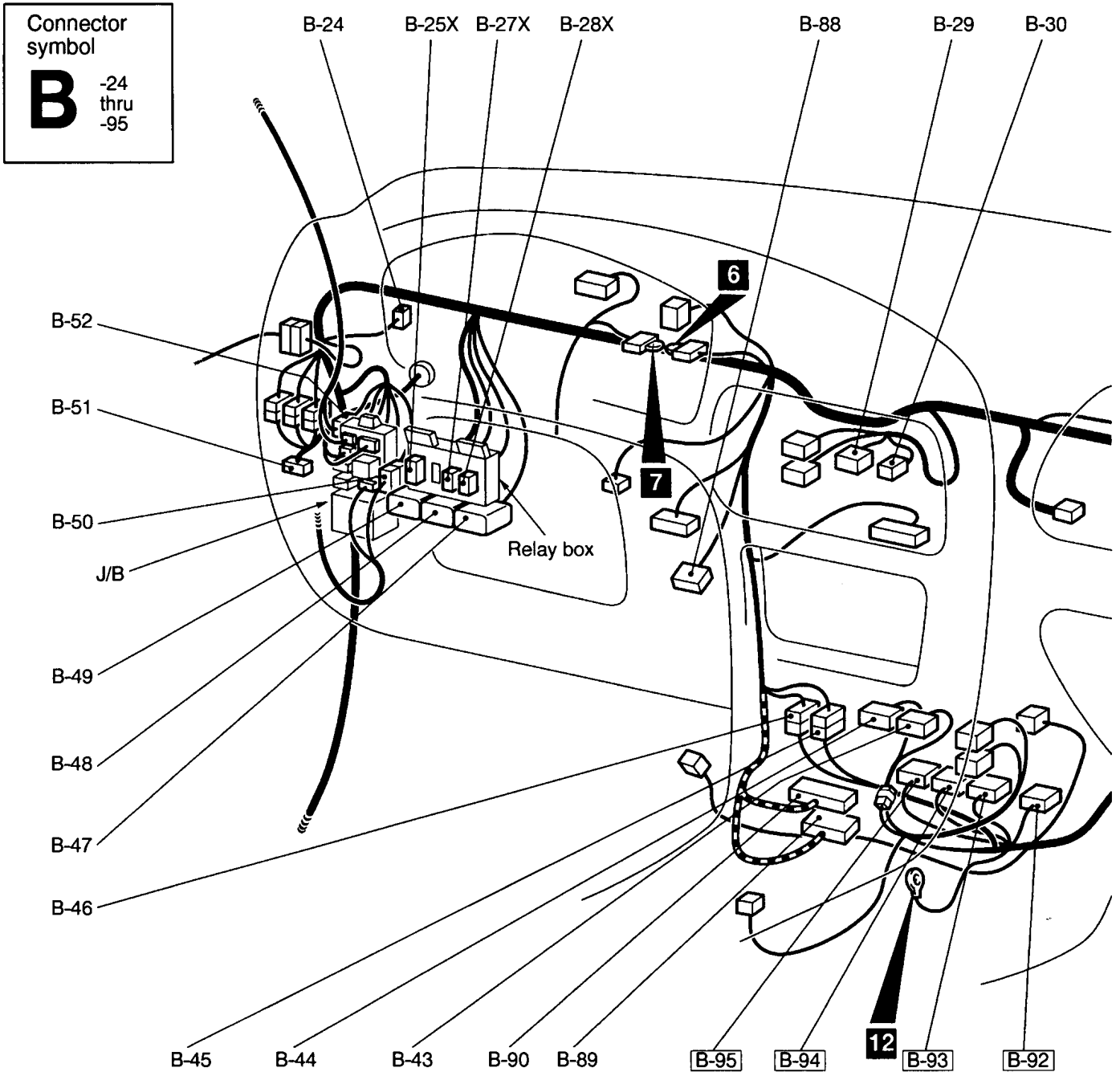
- A-90 (1-L) Engine speed detection connector
- A-91 (2-B) ABS hydraulic unit
- A-92 (8-B) ABS hydraulic unit
- A-96 (1-B) Capacitor
- A-99 (7-B) Air flow sensor
- A-106 (4-B) Oxygen sensor (front)
- A-107 (4-B) Ignition failure sensor
- A-108 (4-B) Oxygen sensor (rear)

NOTE

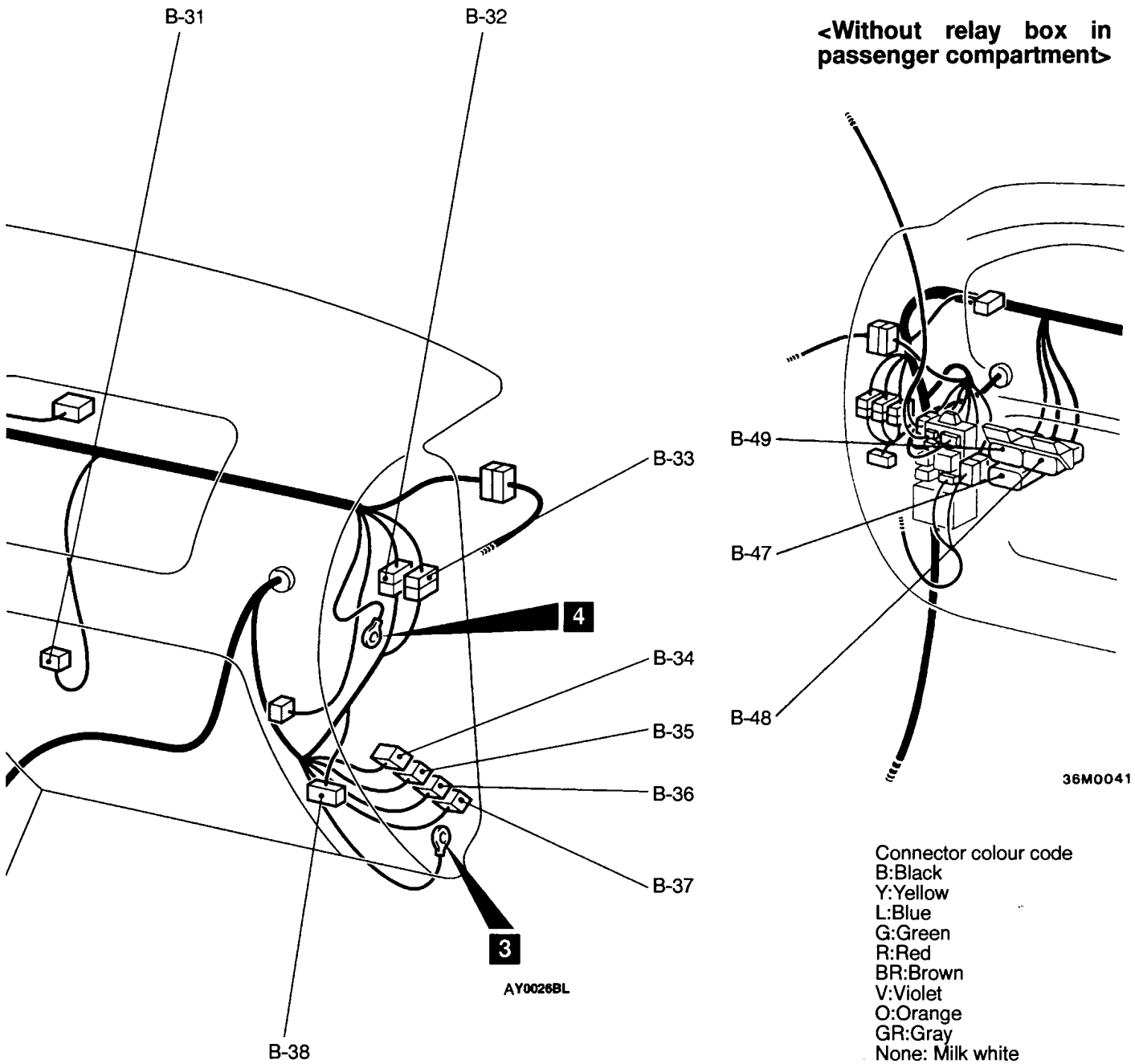
Connector numbers in boxes are for connectors which have been newly added.

DASH PANEL

L.H. drive vehicles



B-24 (16-B)	Immobilizer-ECU	B-33 (13)	Control wiring harness and body wiring harness combination
B-25X (8)	Rear intermittent wipe relay	B-34 (22-Y)	Engine ECU <M/T>
B-27X (5)	Power window relay	B-35 (12-Y)	Engine ECU <M/T>
B-28X (5)	Front fog lamp relay	B-36 (16-Y)	Engine ECU <M/T>
B-29 (8)	Blower switch	B-37 (26-Y)	Engine ECU <M/T>
B-30 (2)	Blower control illumination lamp	B-38 (19-B)	J/C (5)
B-31 (4)	Resistor	B-43 (26-Y)	ABS-ECU
B-32 (16-B)	Control wiring harness and body wiring harness combination	B-44 (16)	ABS-ECU



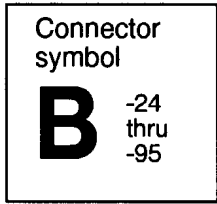
- B-45 (14) Control wiring harness and body wiring harness combination <A/T>
- B-46 (16-B) Control wiring harness and body wiring harness combination <ABS>
- B-47 (14) J/C (4)
- B-48 (14) J/C (3)
- B-49 (14) J/C (2)
- B-50 (18) Instrument panel wiring harness and body wiring harness combination
- B-51 (19-B) J/C (1)
- B-52 (6) Roof wiring harness and body wiring harness combination <Sunroof>

- B-88 (12) Diagnosis connector
- B-89 (22) SRS-ECU <Vehicles with side air bag>
- B-90 (16) SRS-ECU <Vehicles with side air bag>
- B-92 (30-GR) Engine-A/T-ECU
- B-93 (28-GR) Engine-A/T-ECU
- B-94 (26-GR) Engine-A/T-ECU
- B-95 (35-GR) Engine-A/T-ECU

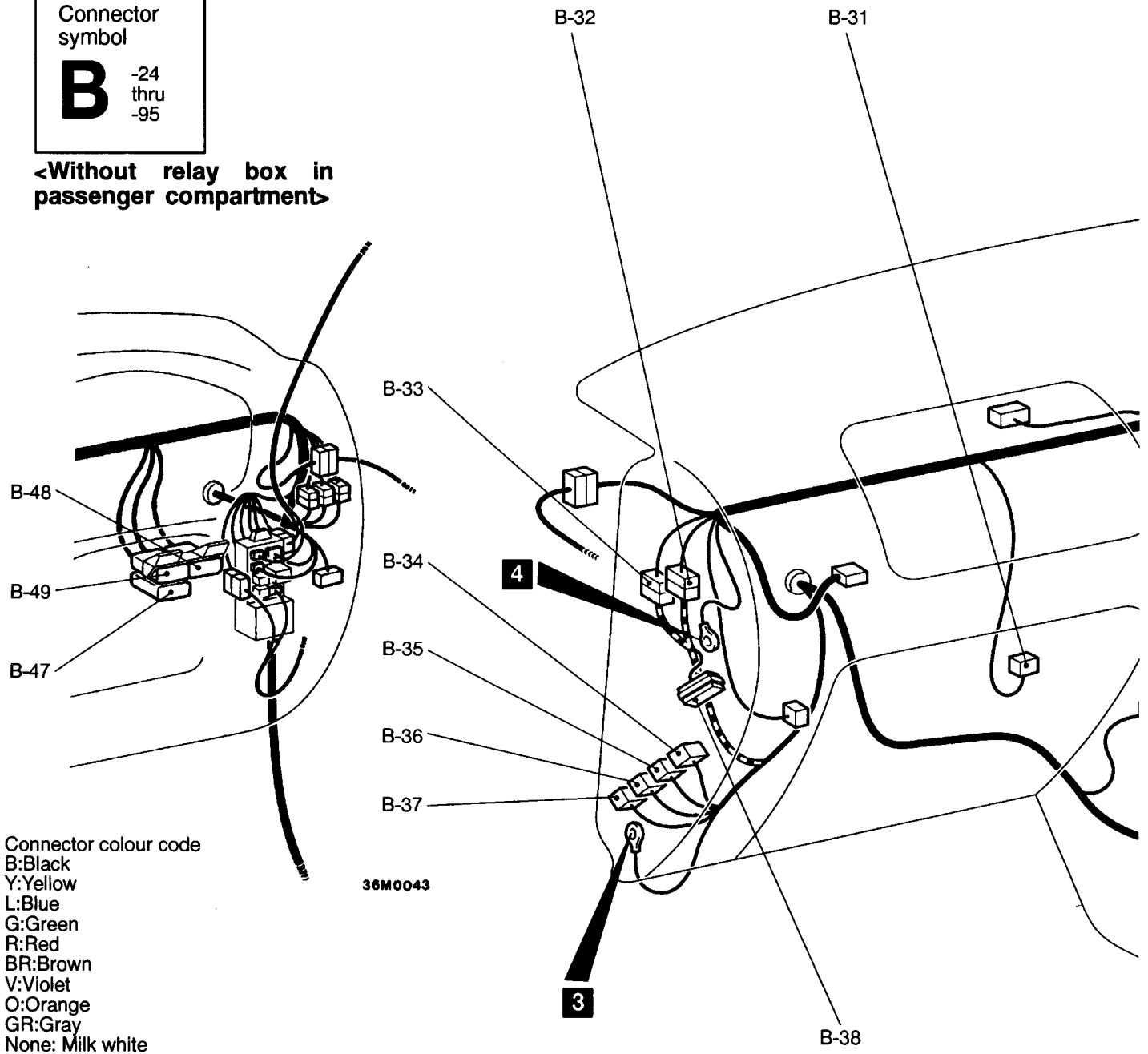
NOTE
 Connector numbers enclosed by a box are for connectors which have been newly added.

DASH PANEL

R.H. drive vehicles

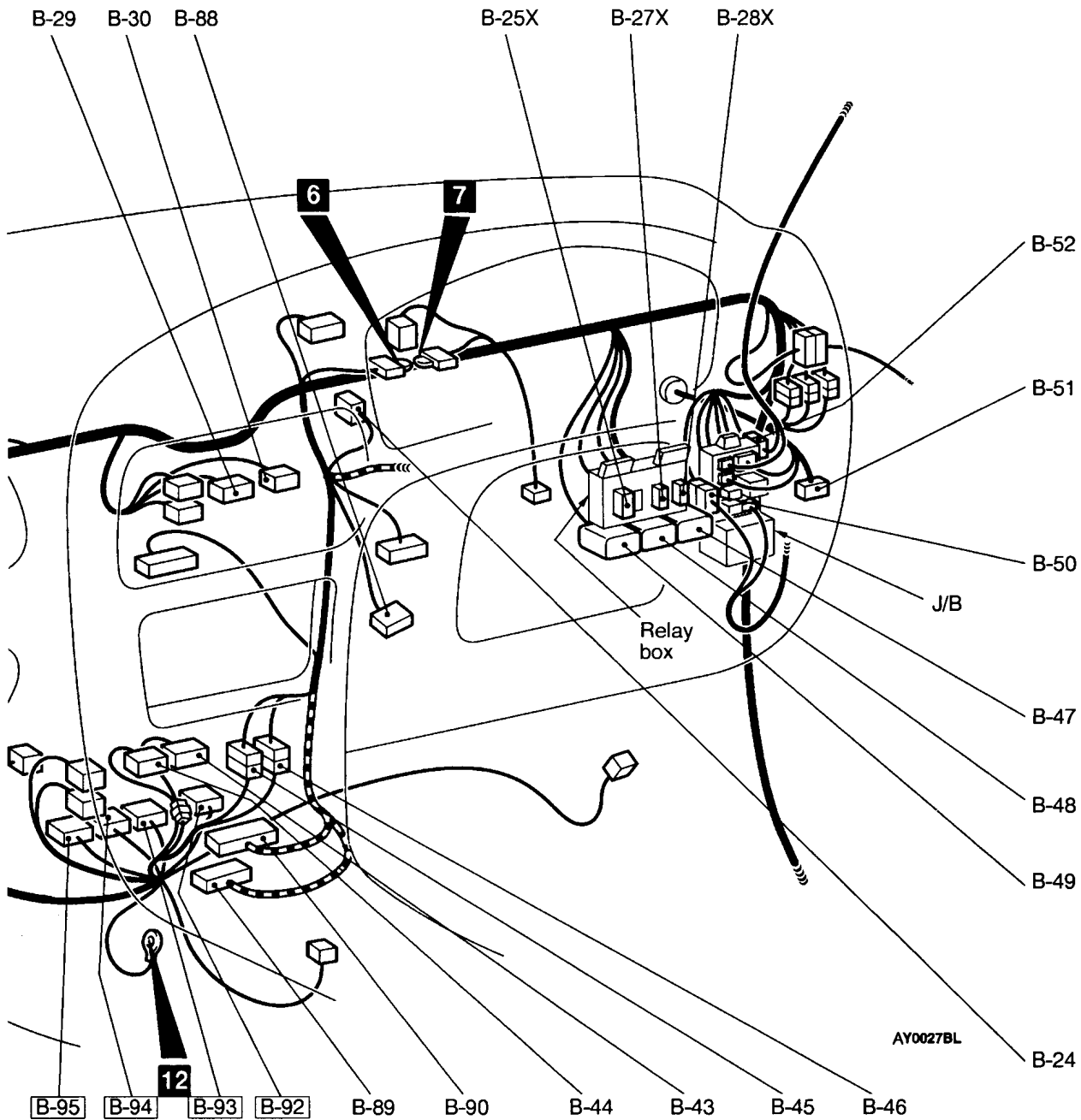


<Without relay box in passenger compartment>



Connector colour code
 B:Black
 Y:Yellow
 L:Blue
 G:Green
 R:Red
 BR:Brown
 V:Violet
 O:Orange
 GR:Gray
 None: Milk white

B-24 (16-B)	Immobilizer-ECU	B-33 (13)	Control wiring harness and body wiring harness combination
B-25X (8)	Rear intermittent wipe relay	B-34 (22-Y)	Engine-ECU <M/T>
B-27X (5)	Power window relay	B-35 (12-Y)	Engine-ECU <M/T>
B-28X (5)	Front fog lamp relay	B-36 (16-Y)	Engine-ECU <M/T>
B-29 (8)	Blower switch	B-37 (26-Y)	Engine-ECU <M/T>
B-30 (2)	Blower control illumination lamp	B-38 (19-B)	J/C (5)
B-31 (4)	Resistor	B-43 (26-Y)	ABS-ECU
B-32 (16-B)	Control wiring harness and body wiring harness combination	B-44 (16)	ABS-ECU



- B-45 (14) Control wiring harness and body wiring harness combination <A/T>
- B-46 (16-B) Control wiring harness and body wiring harness combination <ABS>
- B-47 (14) J/C (4)
- B-48 (14) J/C (3)
- B-49 (14) J/C (2)
- B-50 (22) Instrument panel wiring harness and body wiring harness combination
- B-51 (19) J/C (1)
- B-52 (6) Roof wiring harness and body wiring harness combination <Sunroof>

- B-88 (12) Diagnosis connector
- B-89 (22) SRS-ECU <Vehicles with side air bag>
- B-90 (16) SRS-ECU <Vehicles with side air bag>
- B-92 (30-GR) Engine-A/T-ECU
- B-93 (28-GR) Engine-A/T-ECU
- B-94 (26-GR) Engine-A/T-ECU
- B-95 (35-GR) Engine-A/T-ECU

NOTE

Connector numbers enclosed by a box are for connectors which have been newly added.

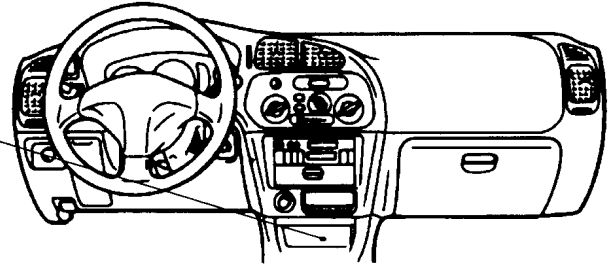
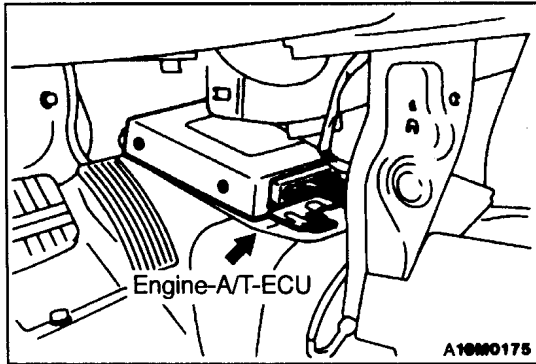
SINGLE PART INSTALLATION POSITION

CONTENTS

ECU	3-2	SOLENOID AND SOLENOID VALVE	3-4
SENSOR	3-2		



ECU



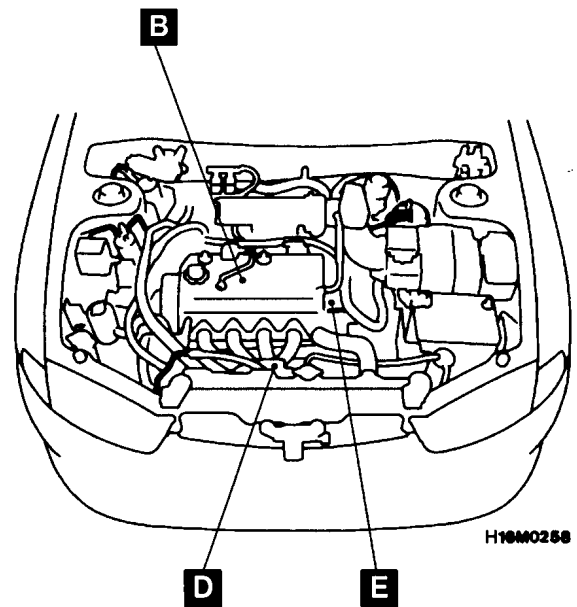
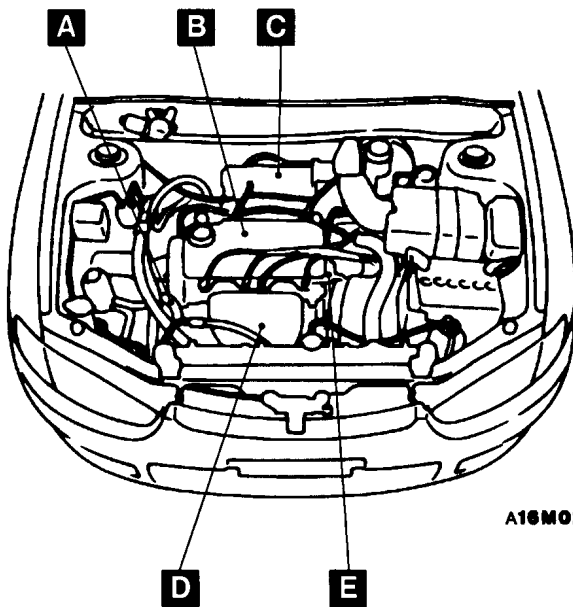
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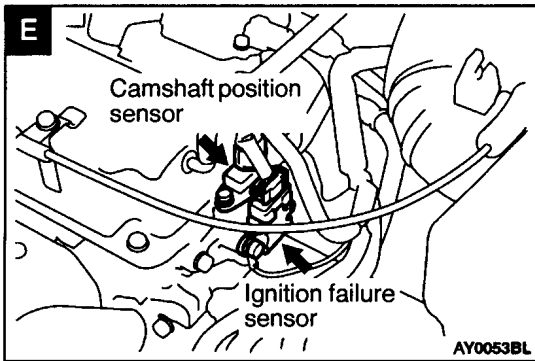
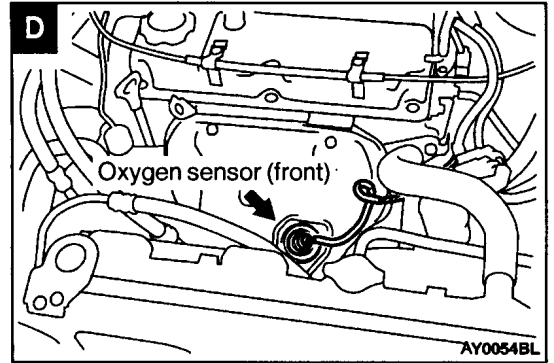
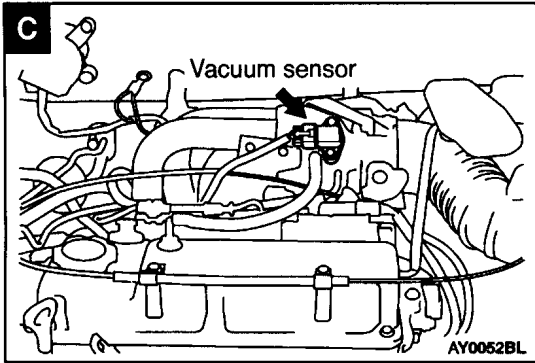
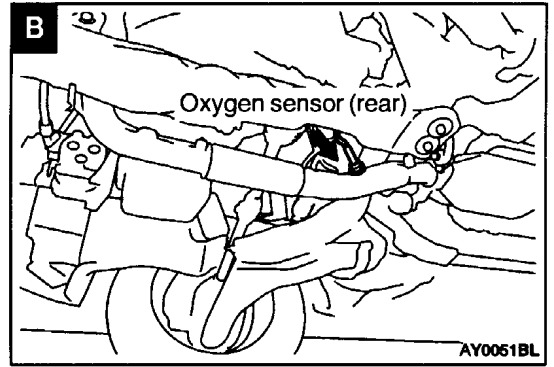
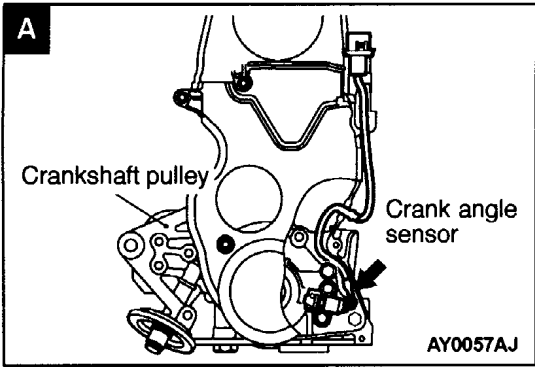
SENSOR

Name	Symbol	Name	Symbol
Camshaft position sensor <4G13>	E	Oxygen sensor (rear)	B
Crank angle sensor <4G13>	A	Ignition failure sensor	E
Oxygen sensor (front)	D	Vacuum sensor <4G13>	C

<4G13>

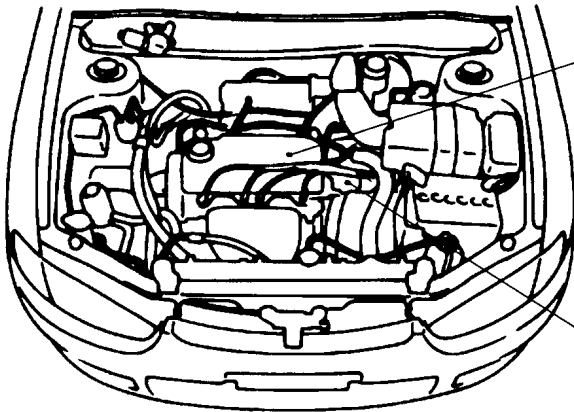
<4G92>



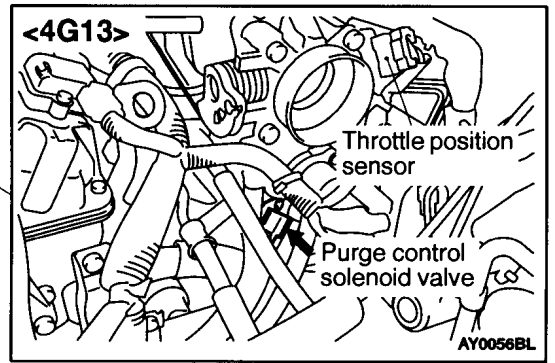
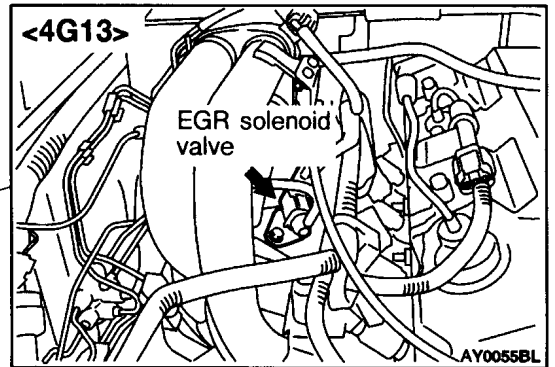


3-4 SINGLE PART INSTALLATION POSITION – Solenoid and Solenoid Valve

SOLENOID AND SOLENOID VALVE



16M0267



CIRCUIT DIAGRAMS

CONTENTS

IGNITION SYSTEM

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4G92 4-4

CHARGING SYSTEM 4-6

MPI SYSTEM

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4G92-M/T 4-14

4G92-A/T 4-20

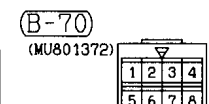
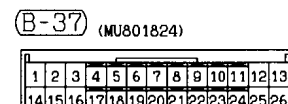
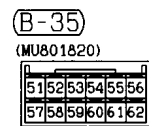
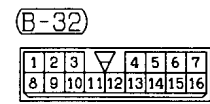
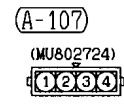
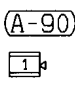
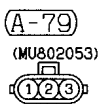
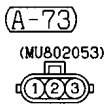
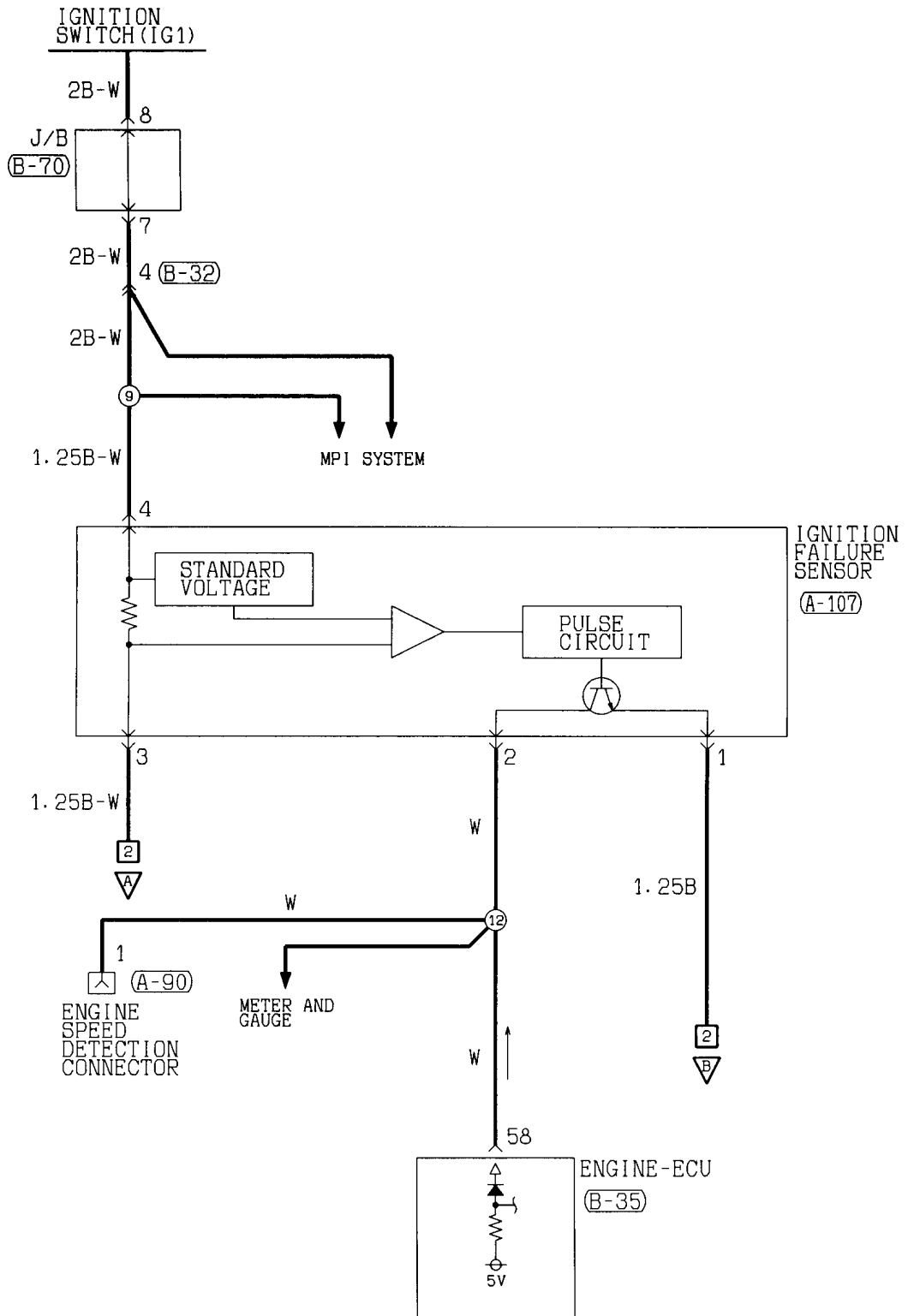
ELC 4-SPEED AUTOMATIC
TRANSMISSION 4-26

IMMOBILIZER SYSTEM 4-34

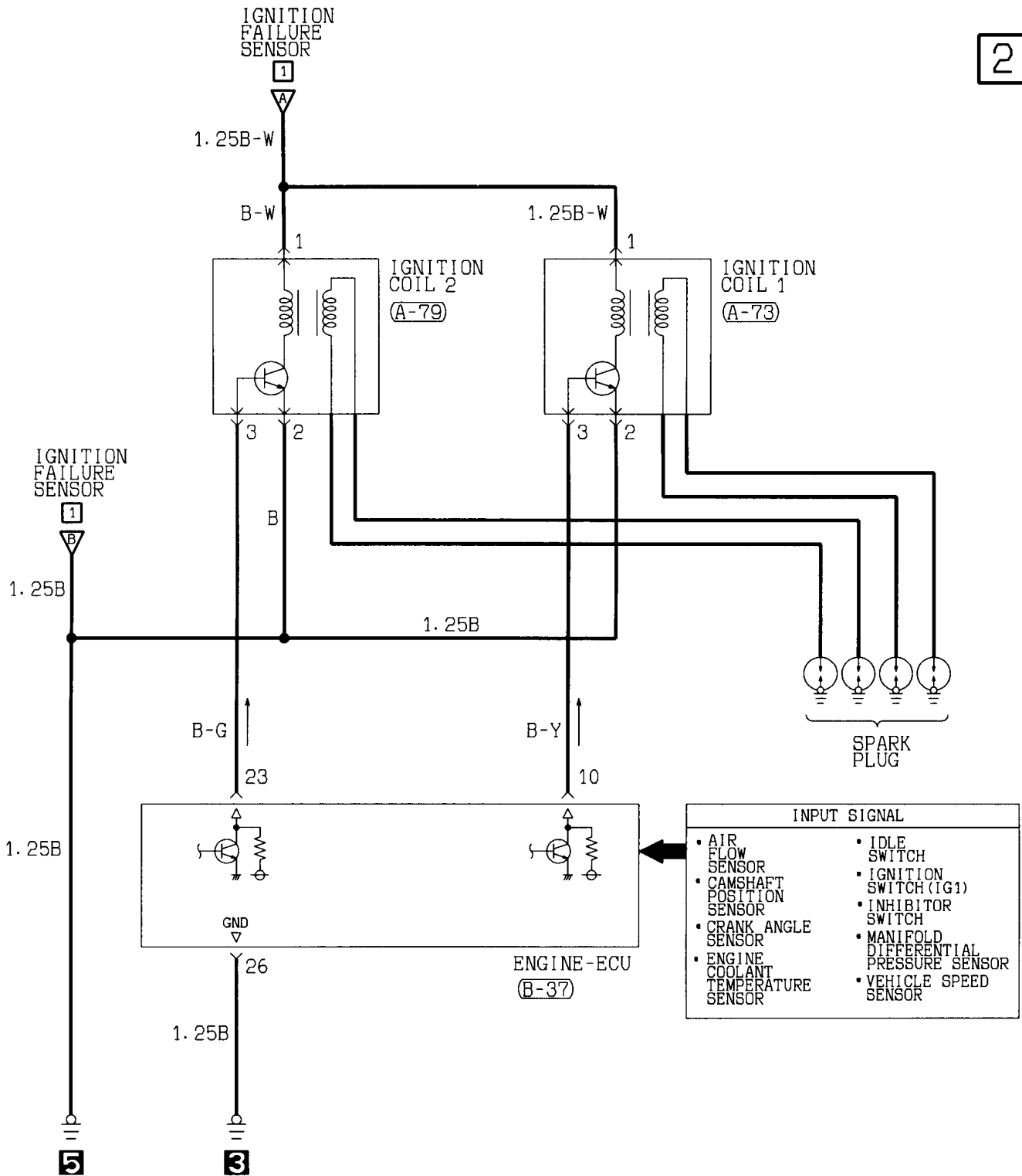
IGNITION SYSTEM

4G13

1



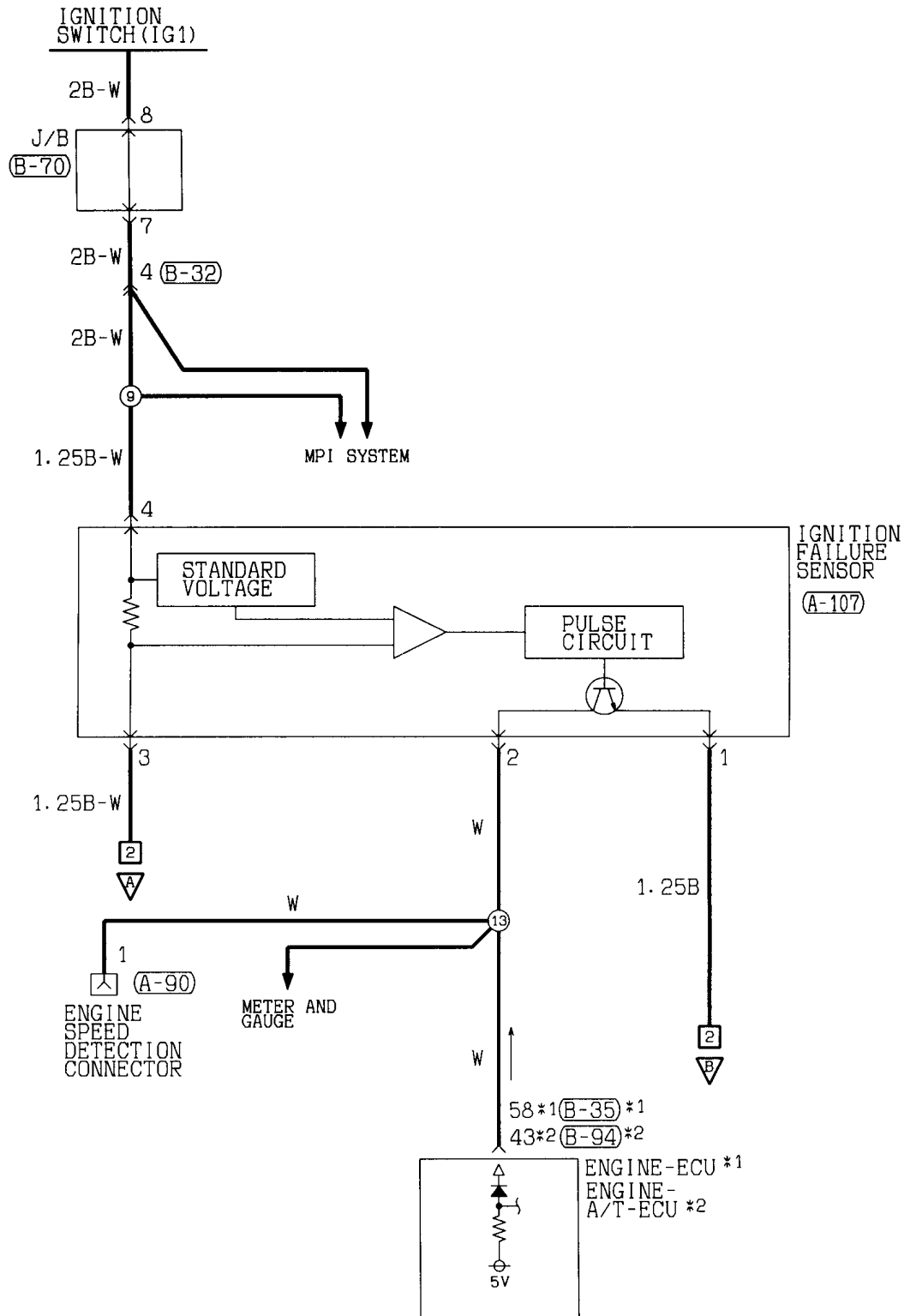
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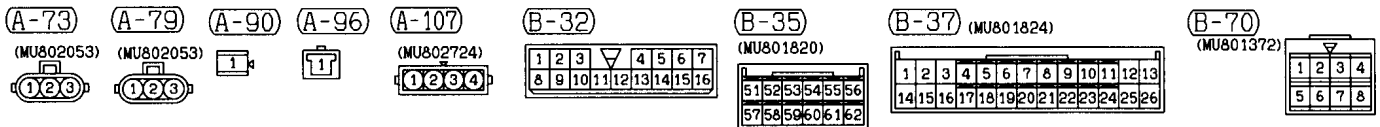
IGNITION SYSTEM

4G92

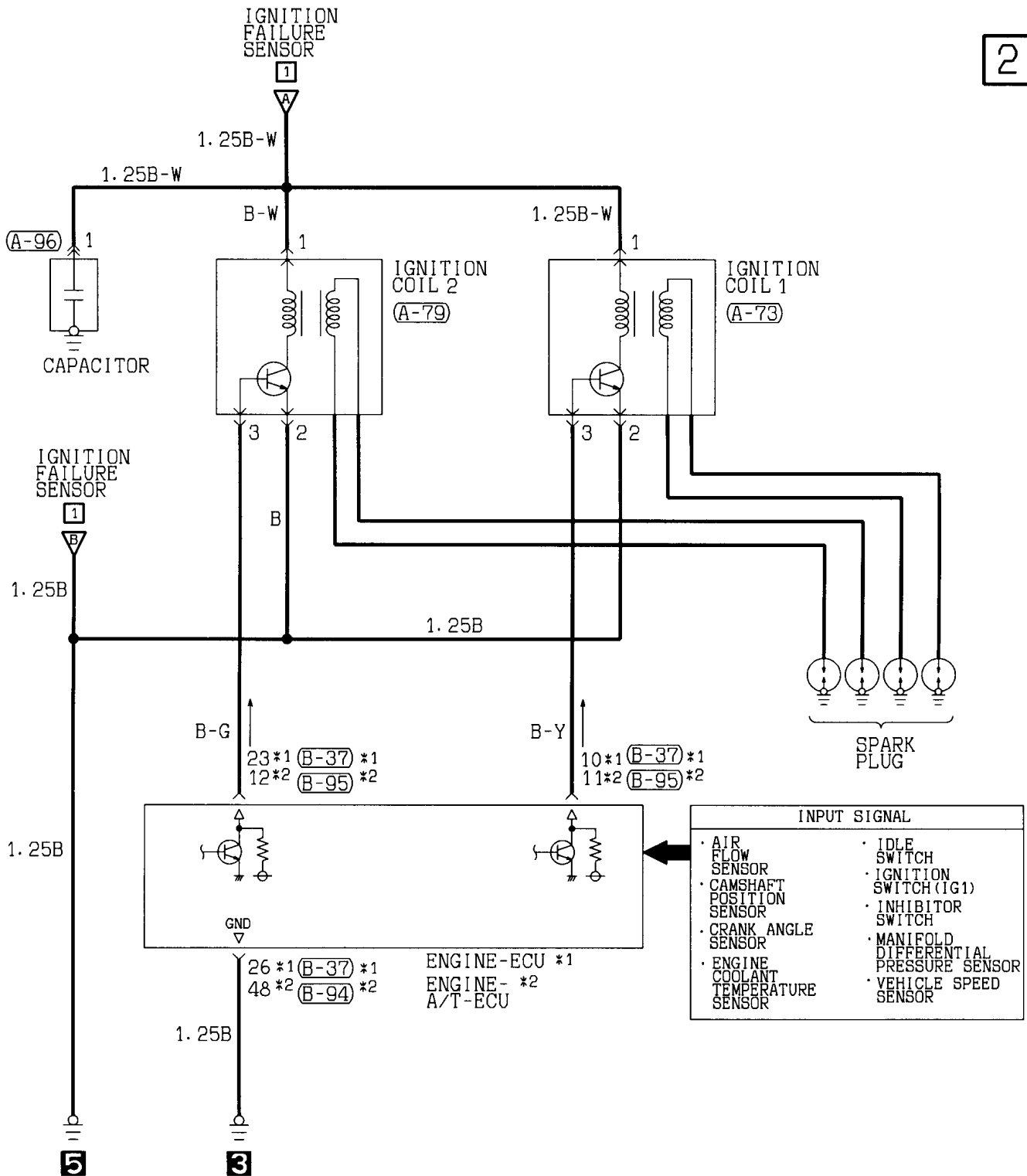
1



NOTE
 *1: M/T
 *2: A/T



2



(B-94) (MU803781)

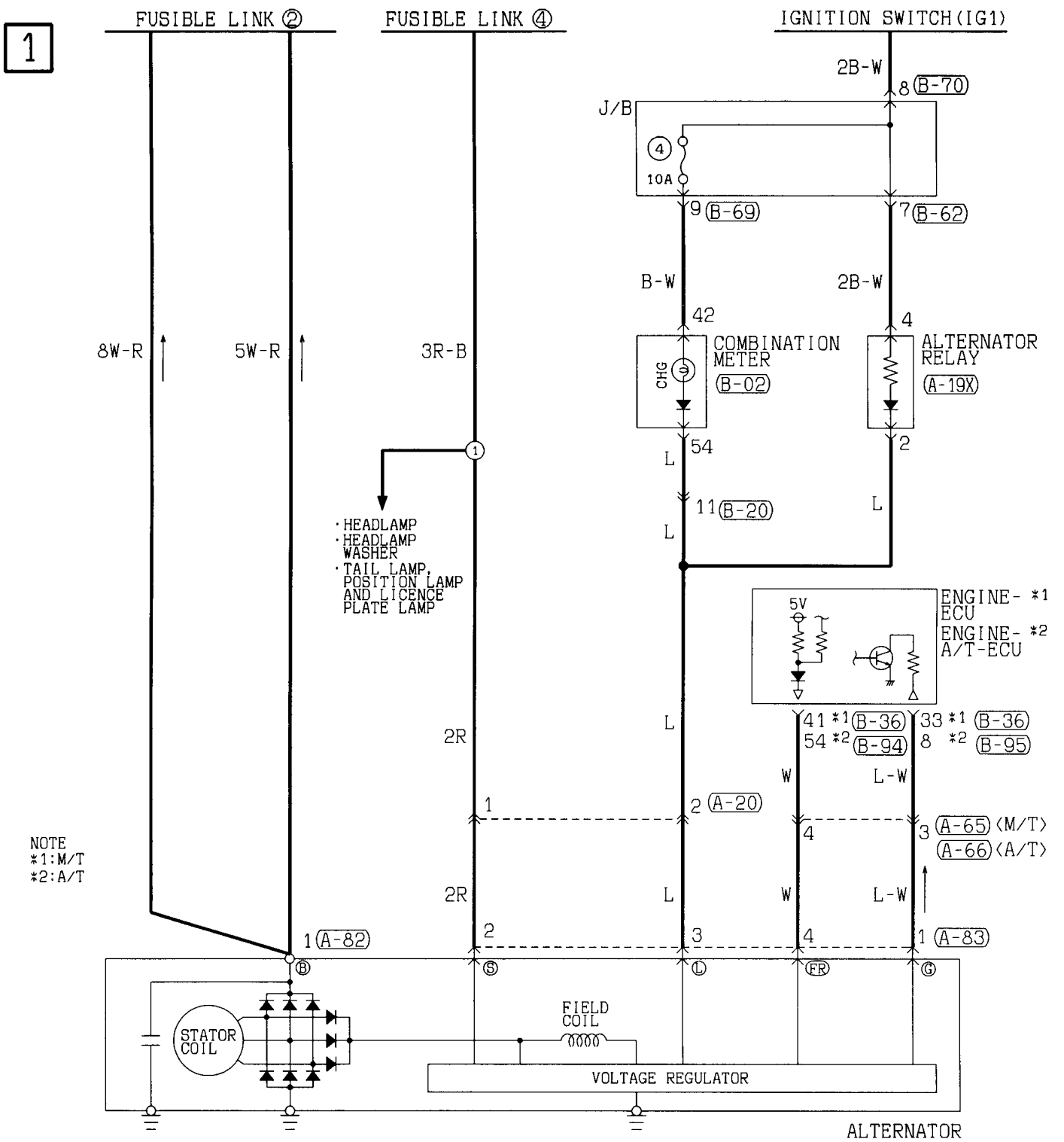
(B-95) (MU803784)

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9	10	11	12	13	14	15	16	17
18	19	20	21	22	23	24	25	26
27	28	29	30	31	32	33	34	35

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



- HEADLAMP
- HEADLAMP WASHER
- TAIL LAMP, POSITION LAMP AND LICENCE PLATE LAMP

NOTE
 *1: M/T
 *2: A/T

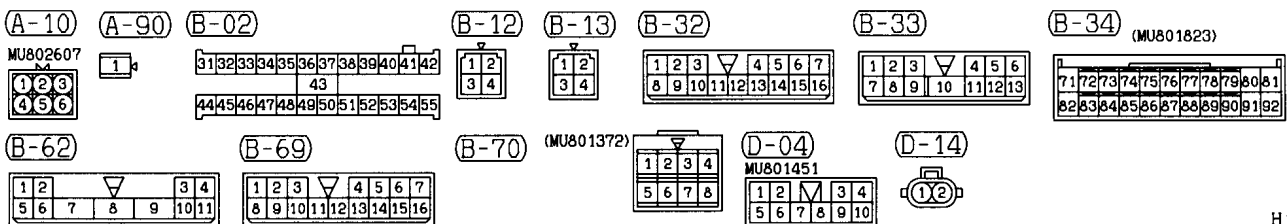
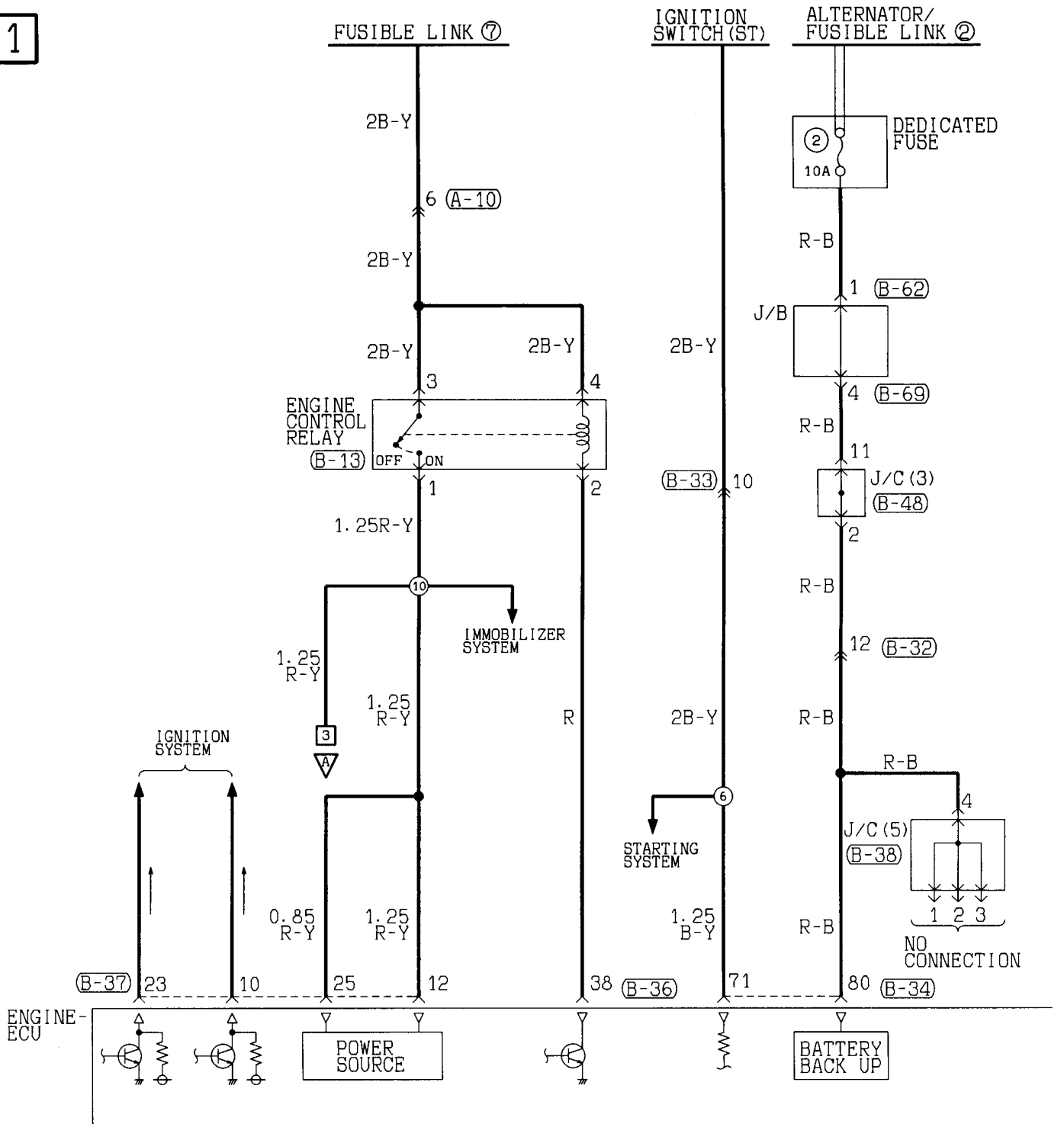
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35																																																																																																														

NOTES

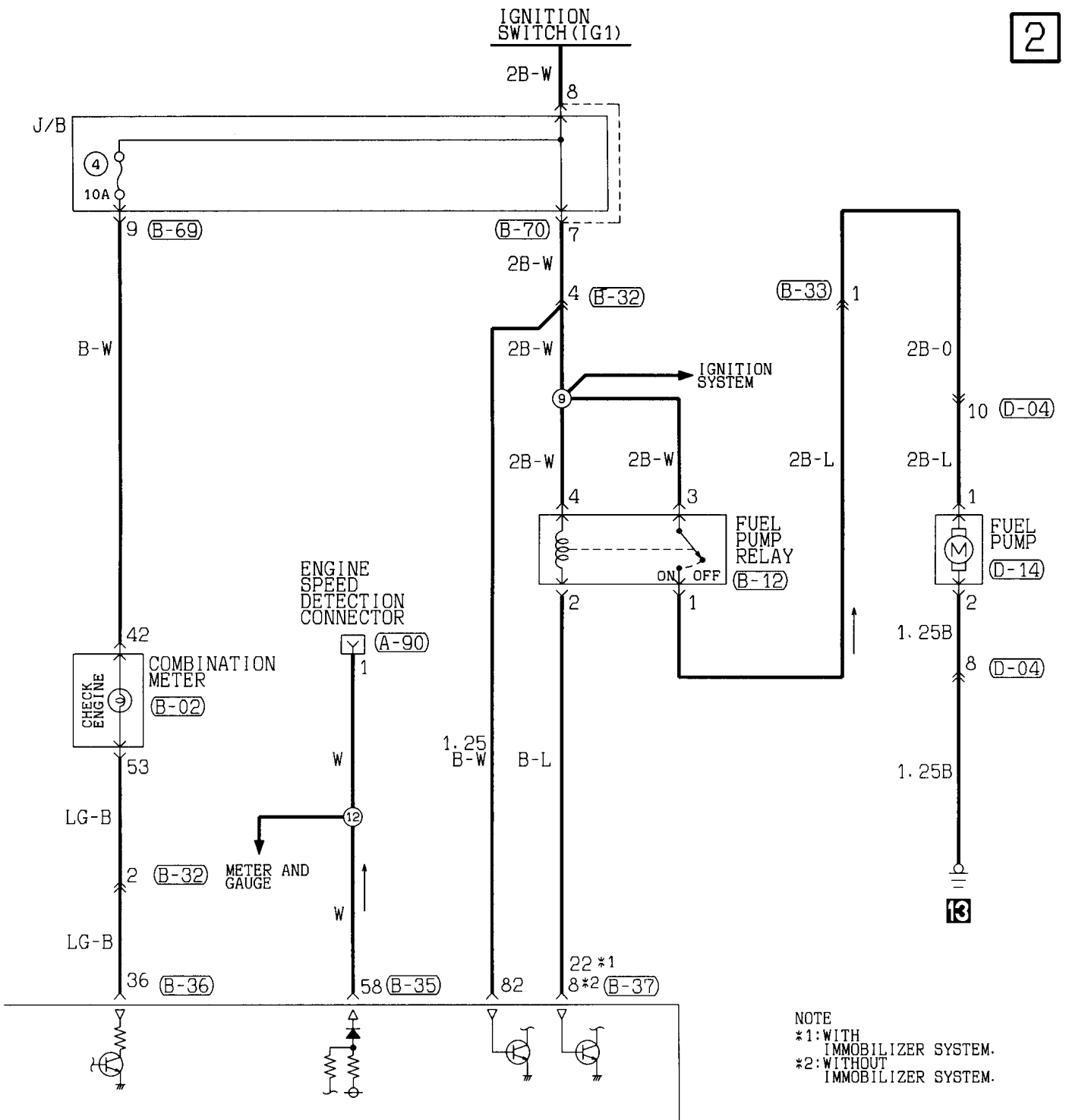
MPI SYSTEM

4G13

1



2



(B-35) (MU803770)

51	52	53	54	55	56
57	58	59	60	61	62

(B-36) (MU801822)

31	32	33	34	35	36	37	38
39	40	41	42	43	44	45	46

(B-37) (MU801824)

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

(B-38)

1	2	3	4	5	6	7	8			
9	10	11	12	13	14	15	16	17	18	19

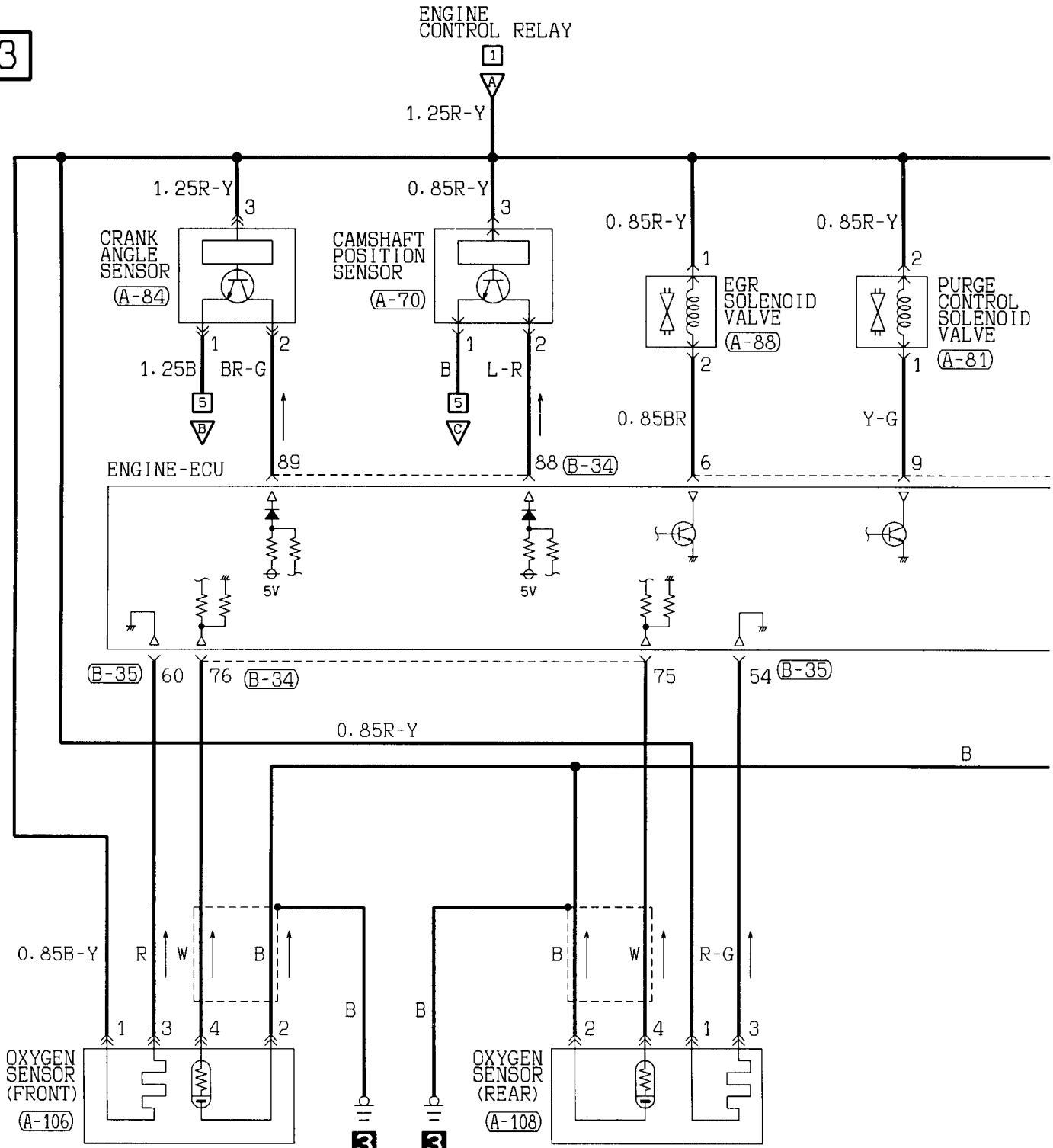
(B-48)

1	2	3	4	5	6		
7	8	9	10	11	12	13	14

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

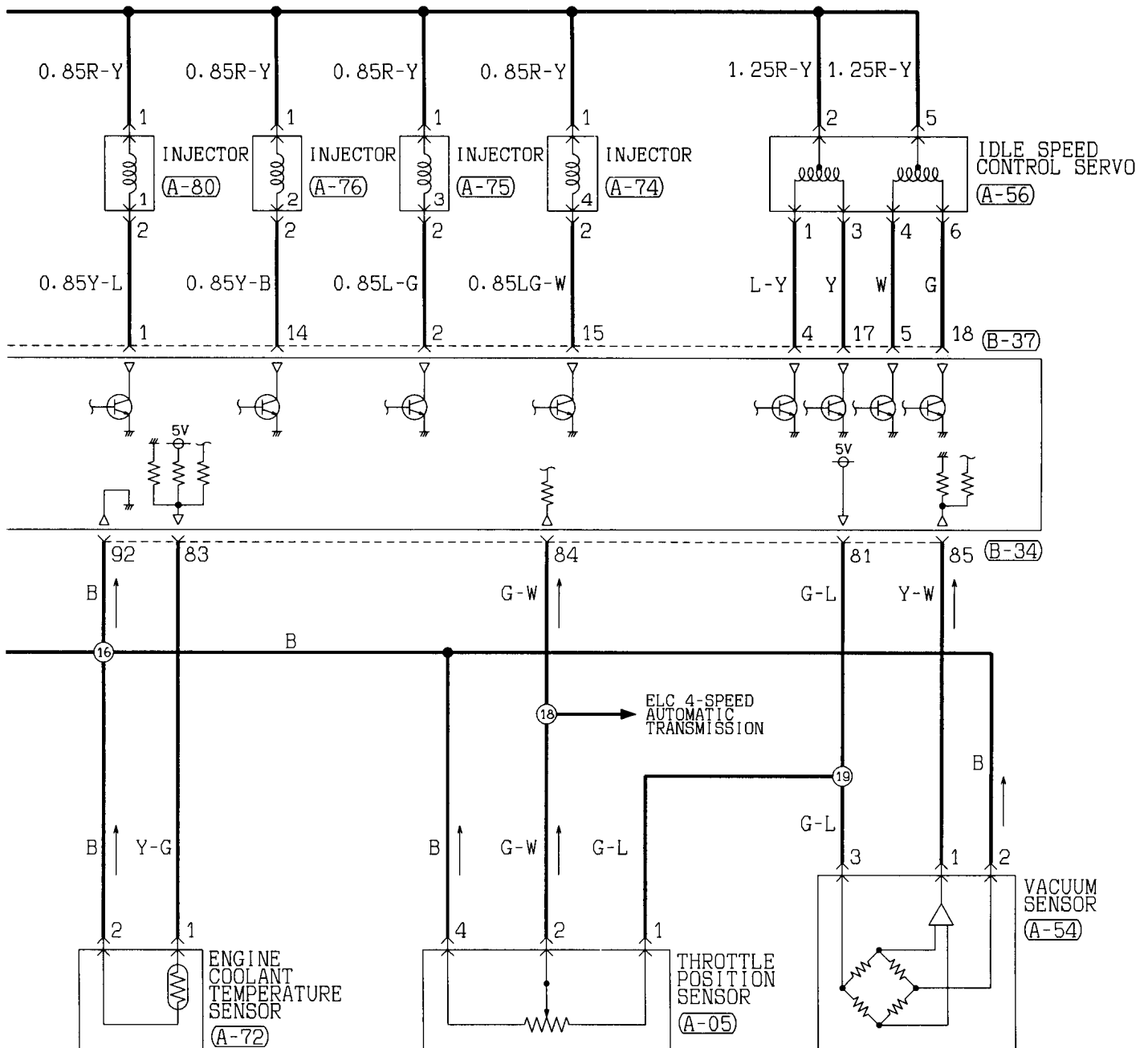
MPI SYSTEM <4G13> (CONTINUED)

3



- | | | | | | | | | | | | | | |
|----------------------|----------------------|--------|--------------------|----------------------|--------|--------|--------|--------|--------------------|--------------------|--------|---------------------|---------------------|
| (A-05)
(MU802724) | (A-54)
(MU802723) | (A-56) | (A-70)
MU802337 | (A-72)
(MU802406) | (A-74) | (A-75) | (A-76) | (A-80) | (A-81)
MU802779 | (A-84)
MU802603 | (A-88) | (A-106)
MU802605 | (A-108)
MU802605 |
| | | | | | | | | | | | | | |

4



(B-34) (MU801823)

71	72	73	74	75	76	77	78	79	80	81
82	83	84	85	86	87	88	89	90	91	92

(B-35)

(MU801820)

51	52	53	54	55	56
57	58	59	60	61	62

(B-37) (MU801824)

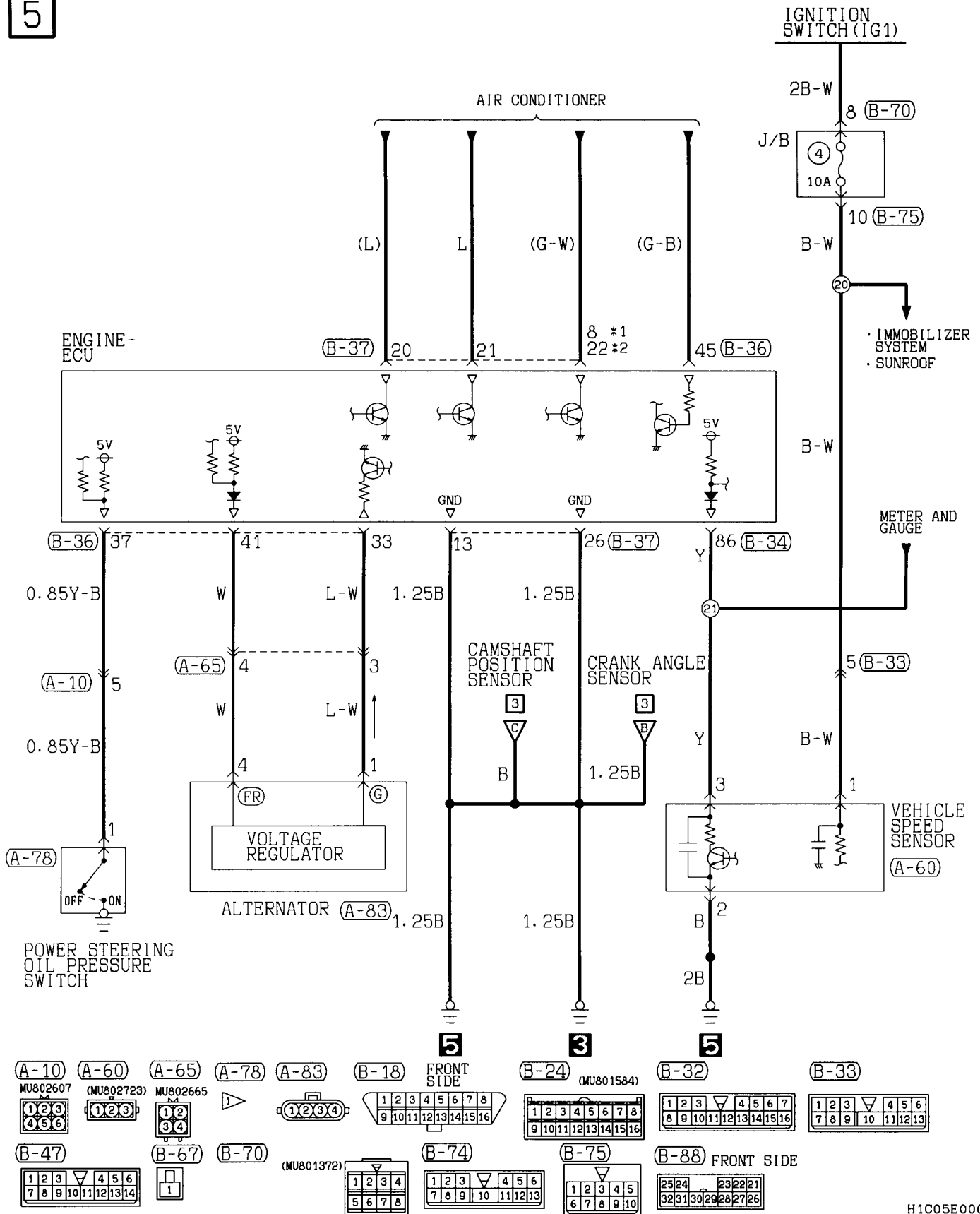
1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

Wire colour code

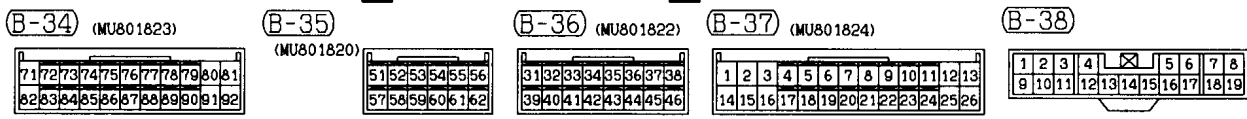
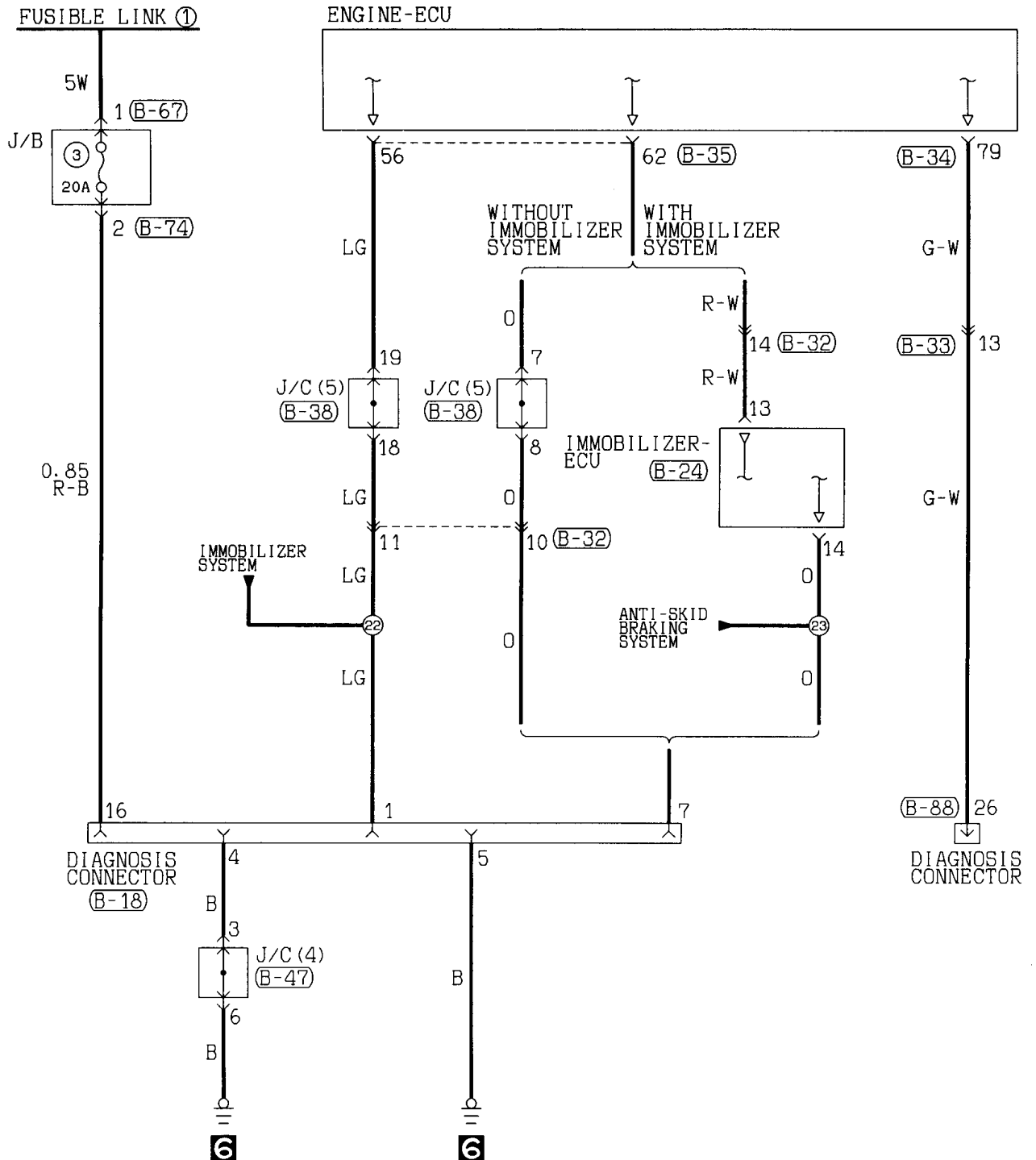
B : Black LG: Light green G: Green L : Blue W : White Y : Yellow SB: Sky blue
 BR: Brown O : Orange GR: Gray R : Red P : Pink V : Violet

MPI SYSTEM <4G13> (CONTINUED)

5



6

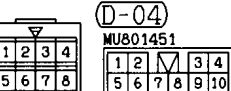
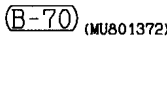
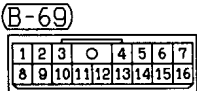
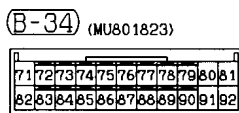
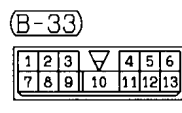
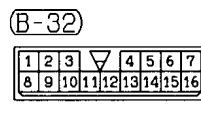
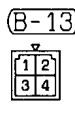
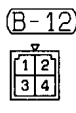
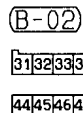
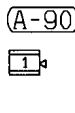
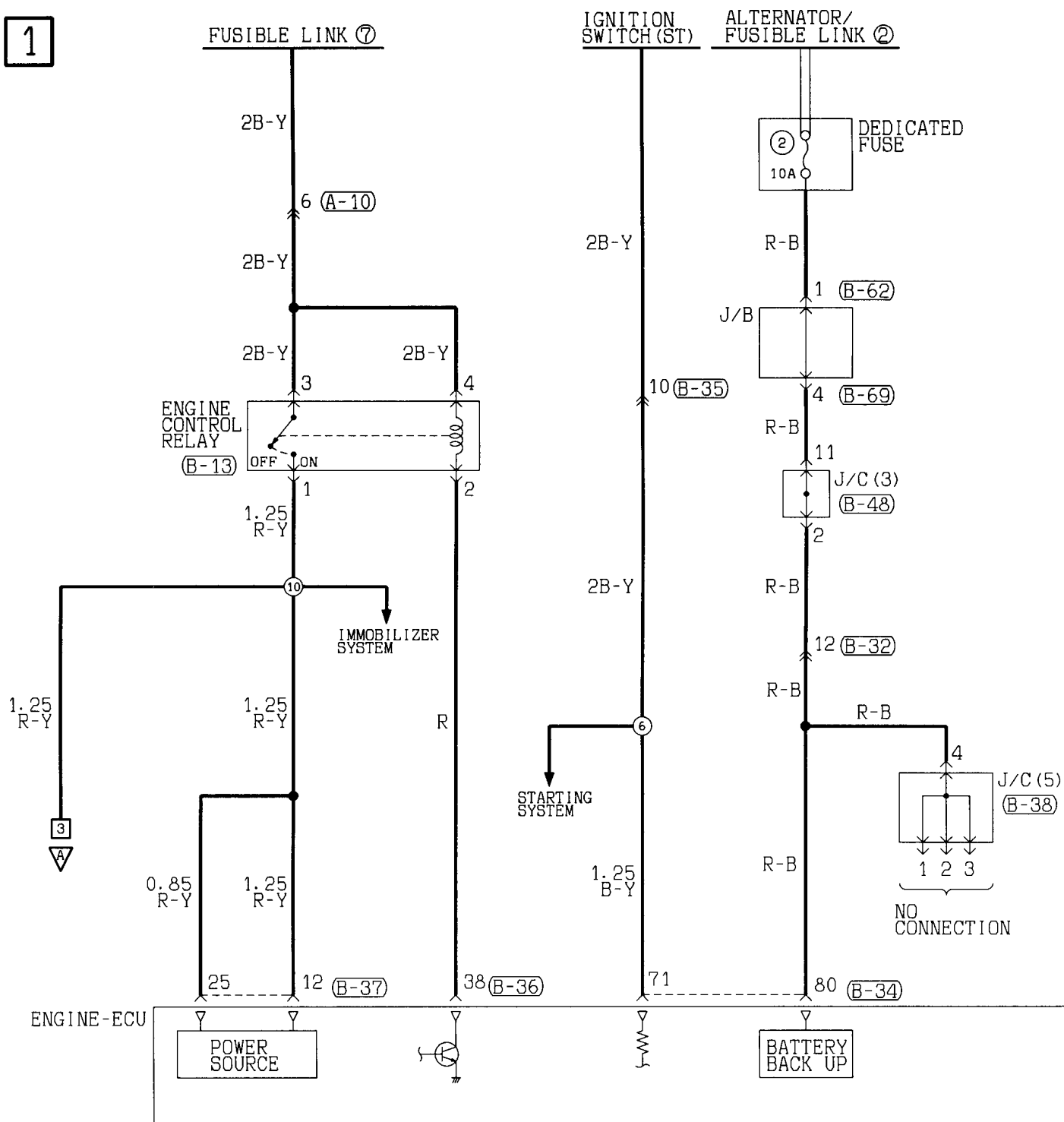


Wire colour code
 B :Black LG:Light green G :Green L :Blue W :White Y :Yellow SB:Sky blue
 BR:Brown O :Orange GR:Gray R :Red P :Pink V :Violet

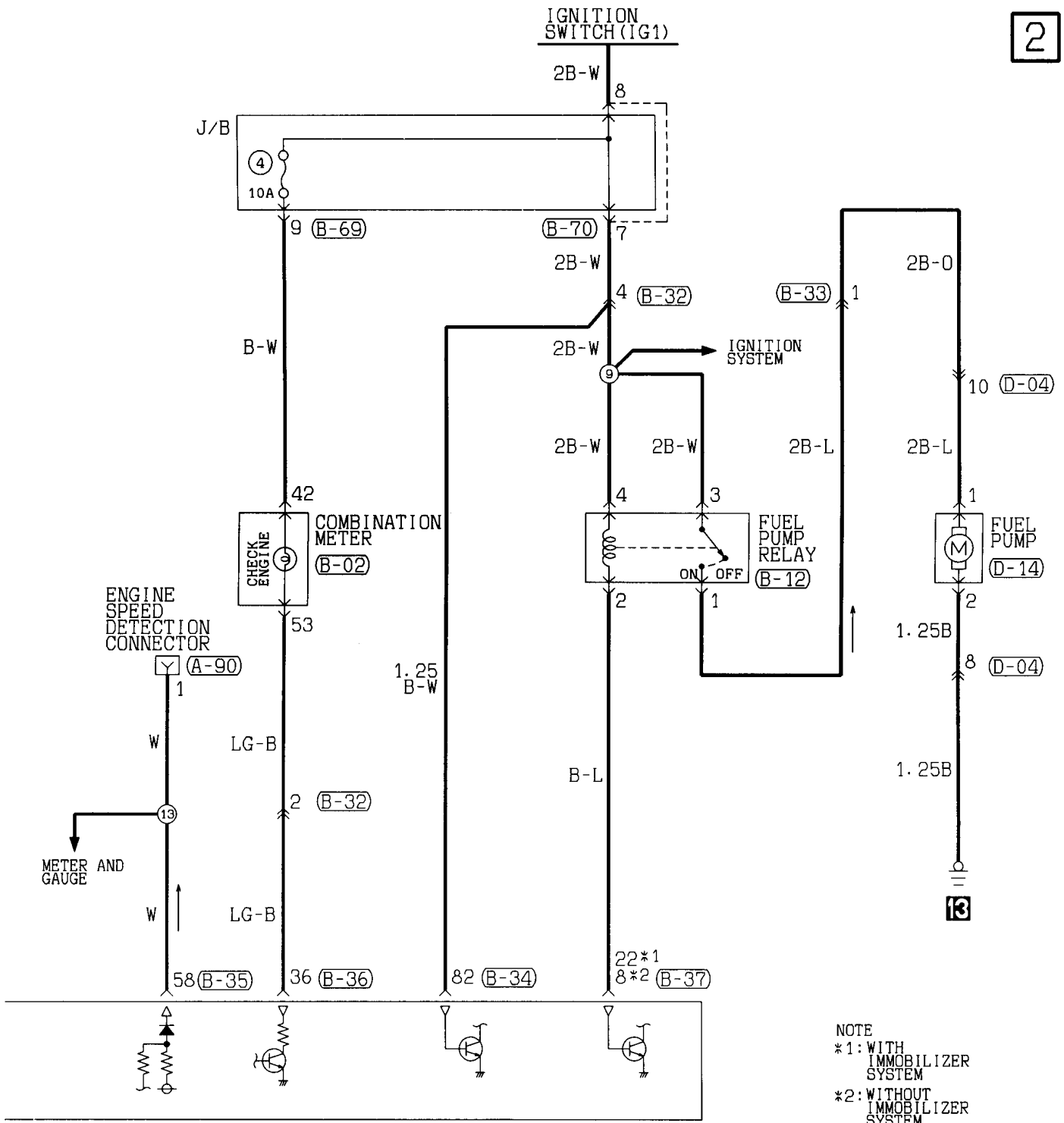
MPI SYSTEM

4G92-M/T

1



2



(B-35) (MU803770)

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

(B-36) (MU801822)

31	32	33	34	35	36	37	38
39	40	41	42	43	44	45	46

(B-37) (MU801824)

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

(B-38)

1	2	3	4	5	6	7	8			
9	10	11	12	13	14	15	16	17	18	19

(B-48)

1	2	3	4	5	6		
7	8	9	10	11	12	13	14

(B-62)

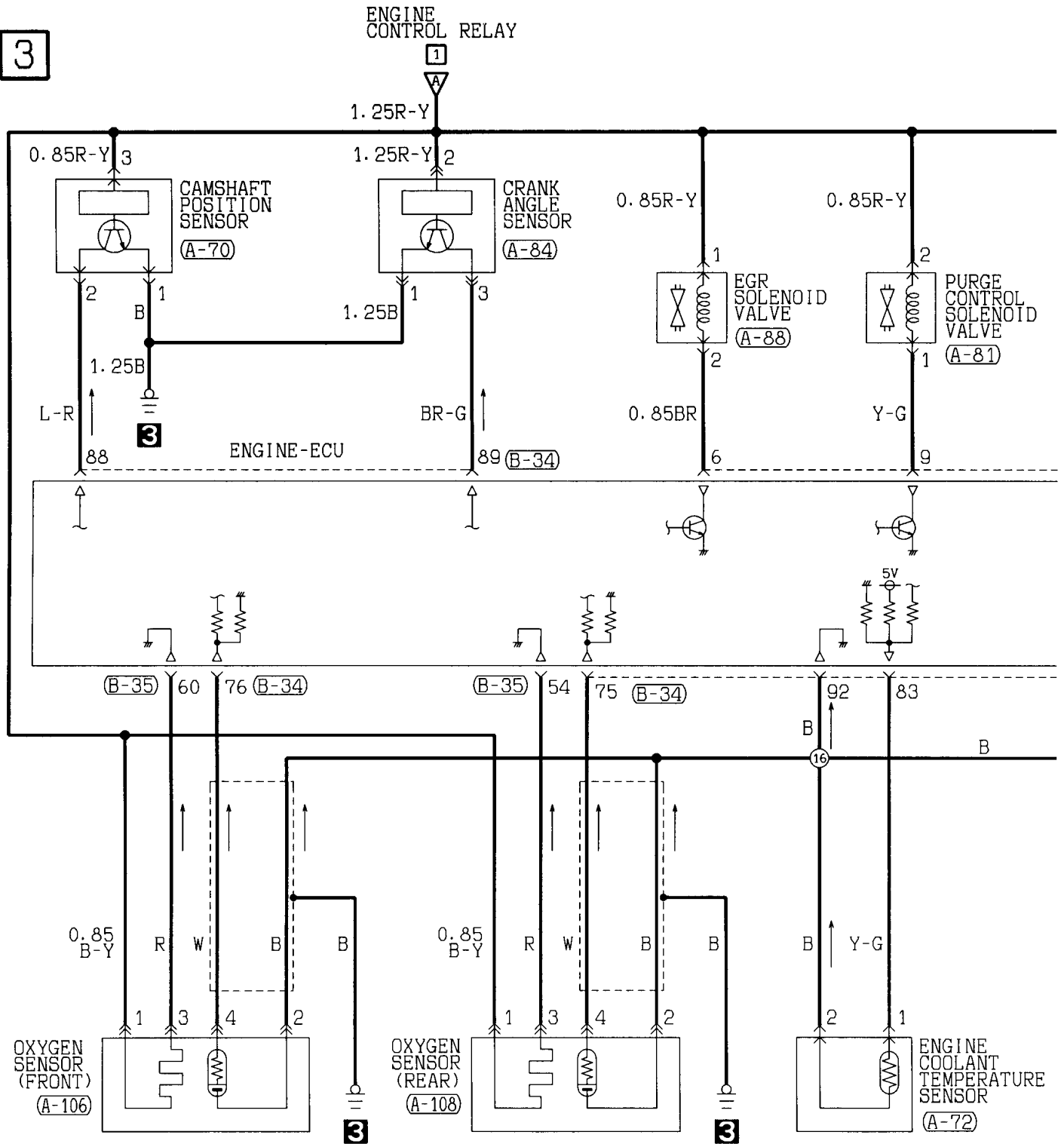
1	2	3	4			
5	6	7	8	9	10	11

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

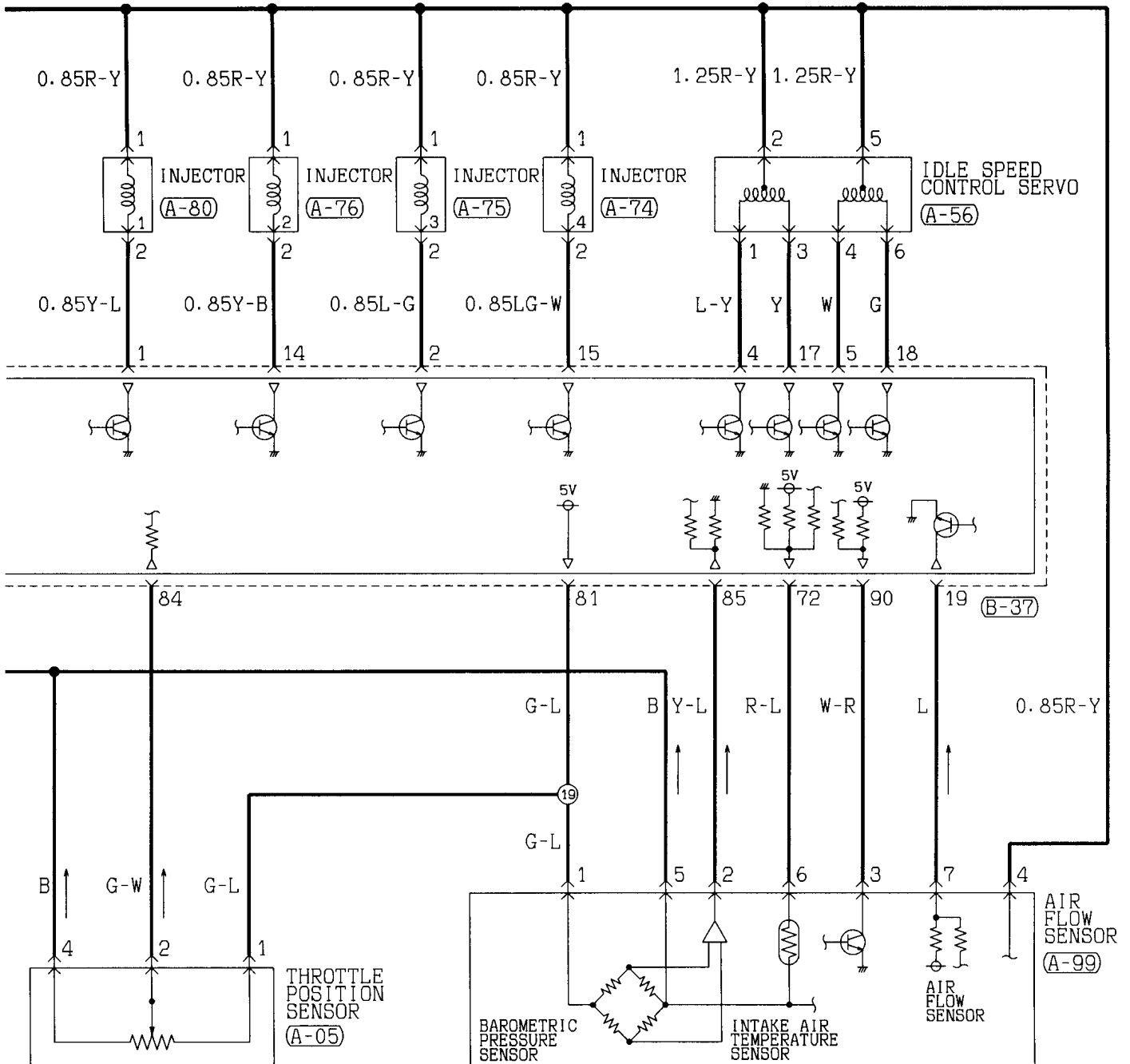
MPI SYSTEM <4G92-M/T> (CONTINUED)

3



- (A-05)
(MU802724)
- (A-56)
- (A-70)
- (A-72)
(MU802406)
- (A-74)
- (A-75)
- (A-76)
- (A-80)
- (A-81)
MU802779
- (A-84)
(MU802053)
- (A-88)
- (A-99)
- (A-106)
MU802605

4



(A-108) MU802605

1	2
3	4

(B-34) (MU801823)

71	72	73	74	75	76	77	78	79	80	81
82	83	84	85	86	87	88	89	90	91	92

(B-35) (MU801820)

51	52	53	54	55	56
57	58	59	60	61	62

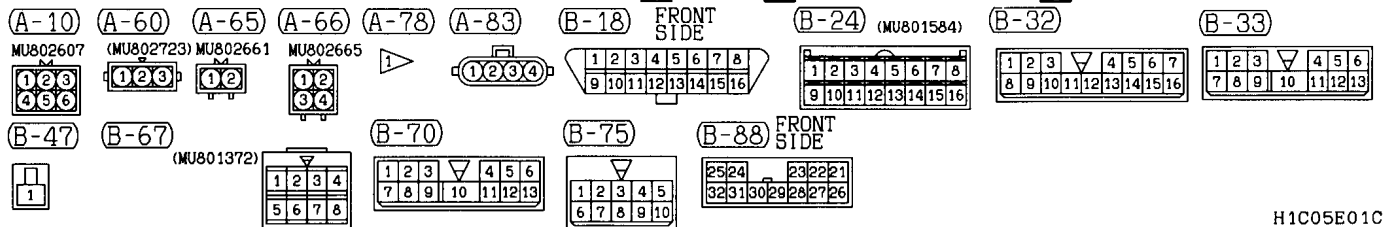
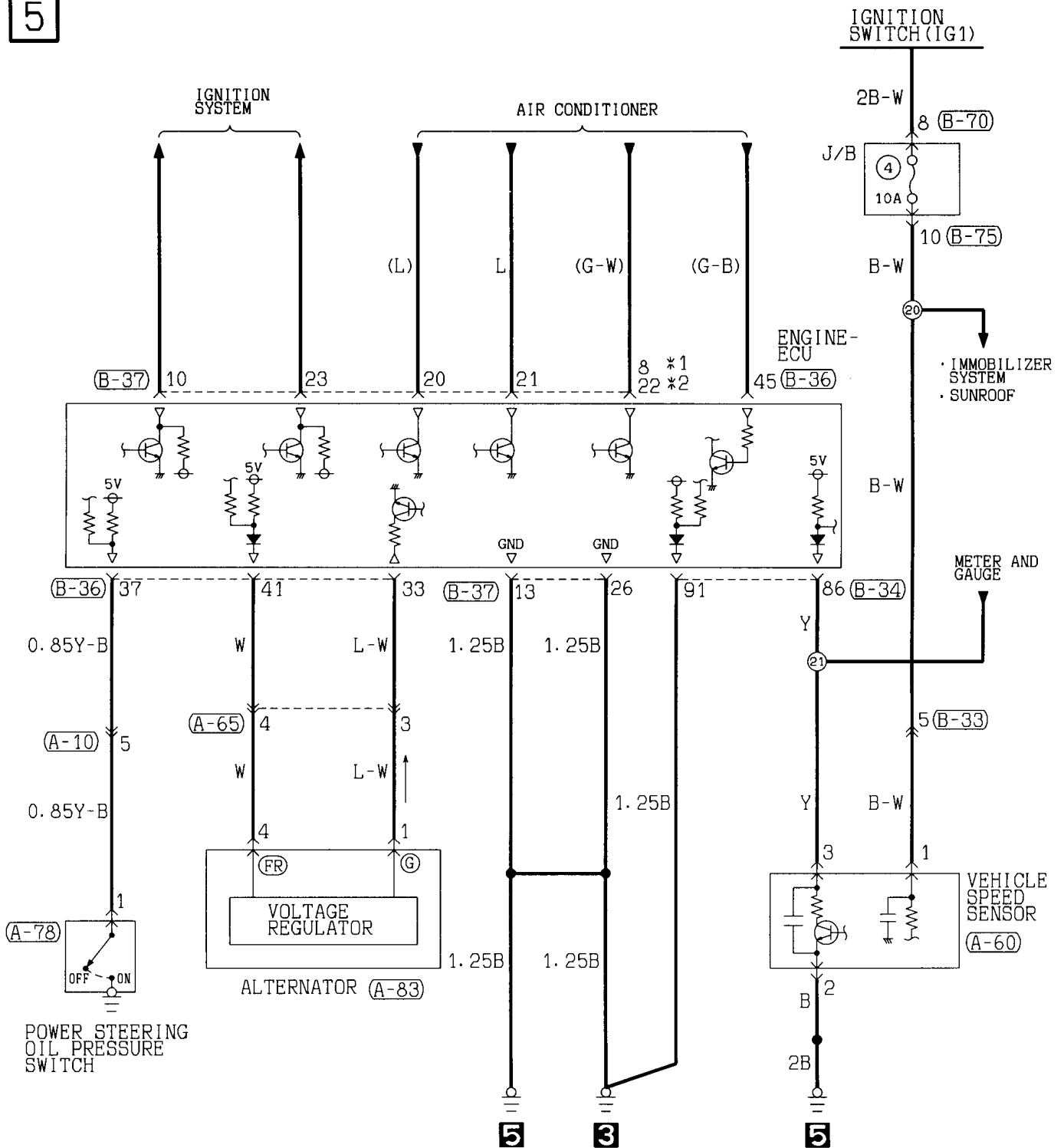
(B-37) (MU801824)

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

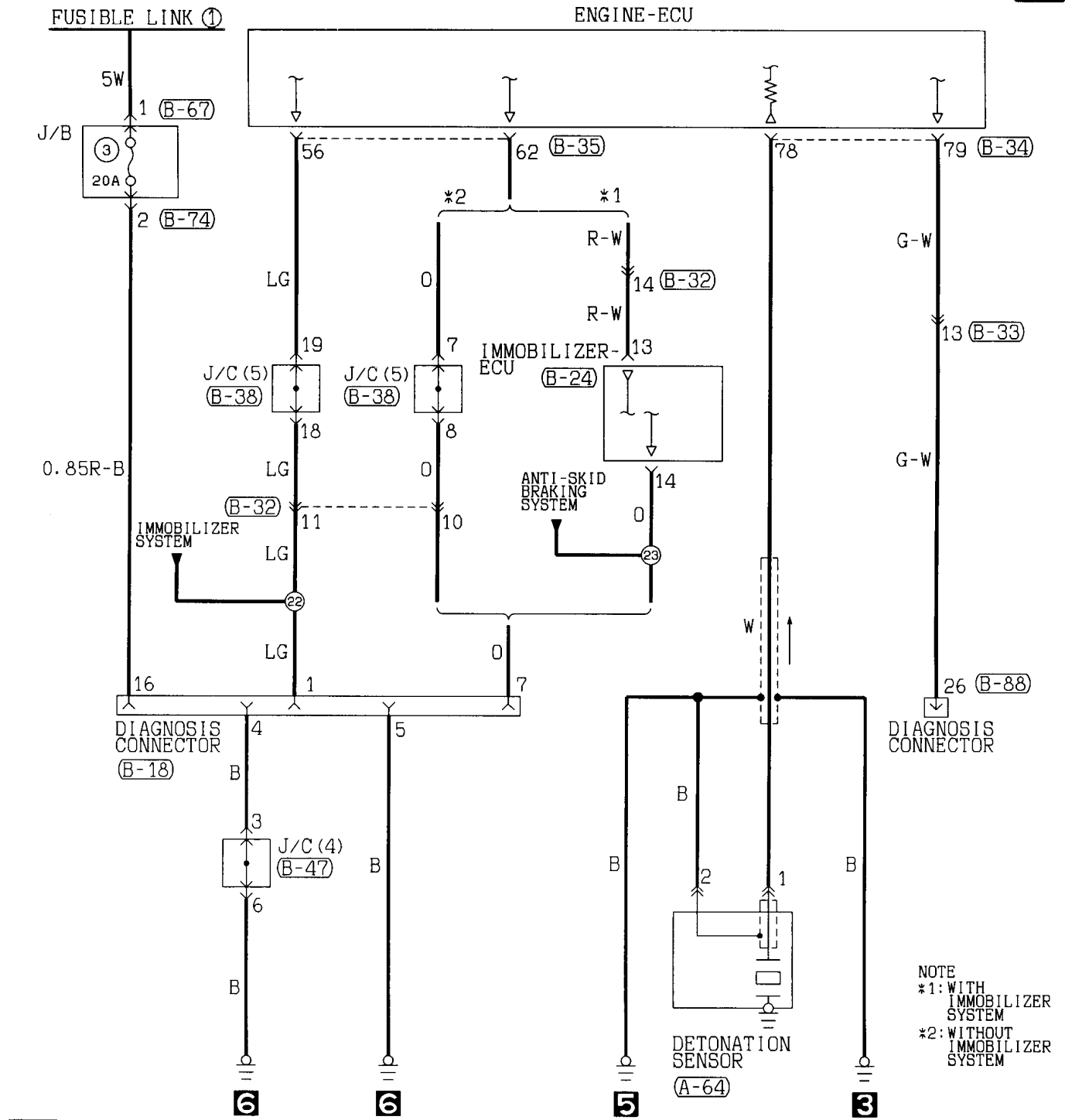
Wire colour code
 B :Black LG:Light green G:Green L :Blue W :White Y :Yellow SB:Sky blue
 BR:Brown O :Orange GR:Gray R :Red P :Pink V :Violet

MPI SYSTEM <4G92-M/T> (CONTINUED)

5



6

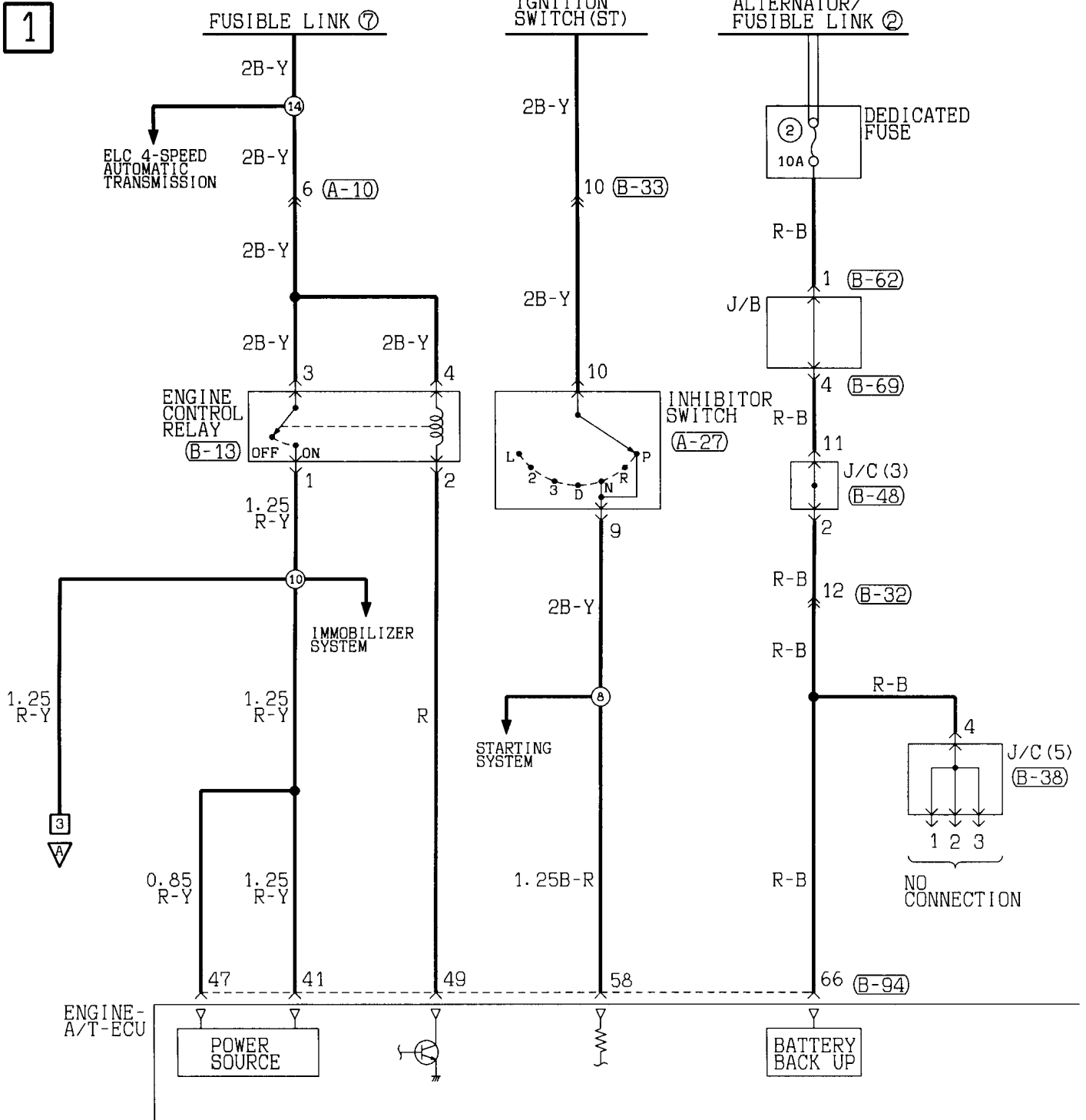


(B-34) (MU801823)	(B-35) (MU801820)	(B-36) (MU801822)	(B-37) (MU801824)	(B-38)	(B-39)
71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92	51 52 53 54 55 56 57 58 59 60 61 62	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	1 2 3 4 5 6 7 8 9 10 11 12 13 14

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

MPI SYSTEM

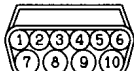
4G92-A/T



A-10 (MU802607)



A-27 (MU802355)



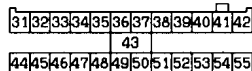
A-90 (1)



A-96 (1)



B-02



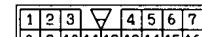
B-12



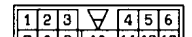
B-13



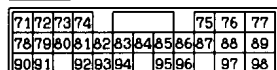
B-32



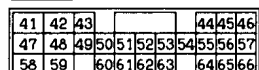
B-33



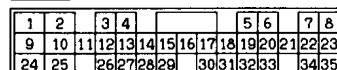
B-93 (MU803782)



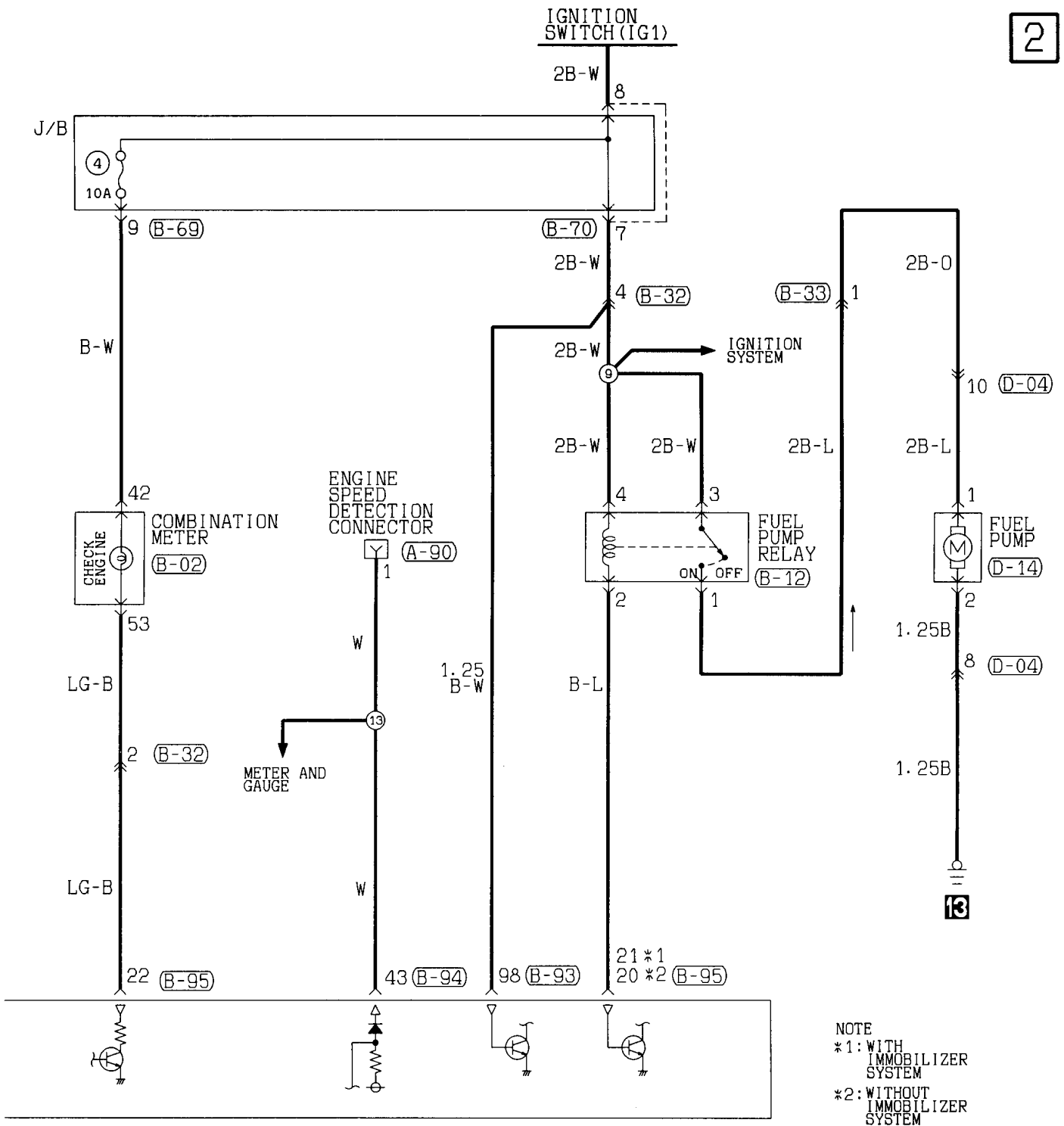
B-94 (MU803781)



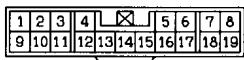
B-95 (MU803784)



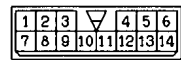
2



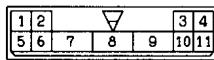
(B-38)



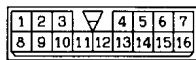
(B-48)



(B-62)



(B-69)

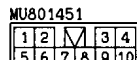


(B-70)

(MU801372)



(D-04)



(D-14)

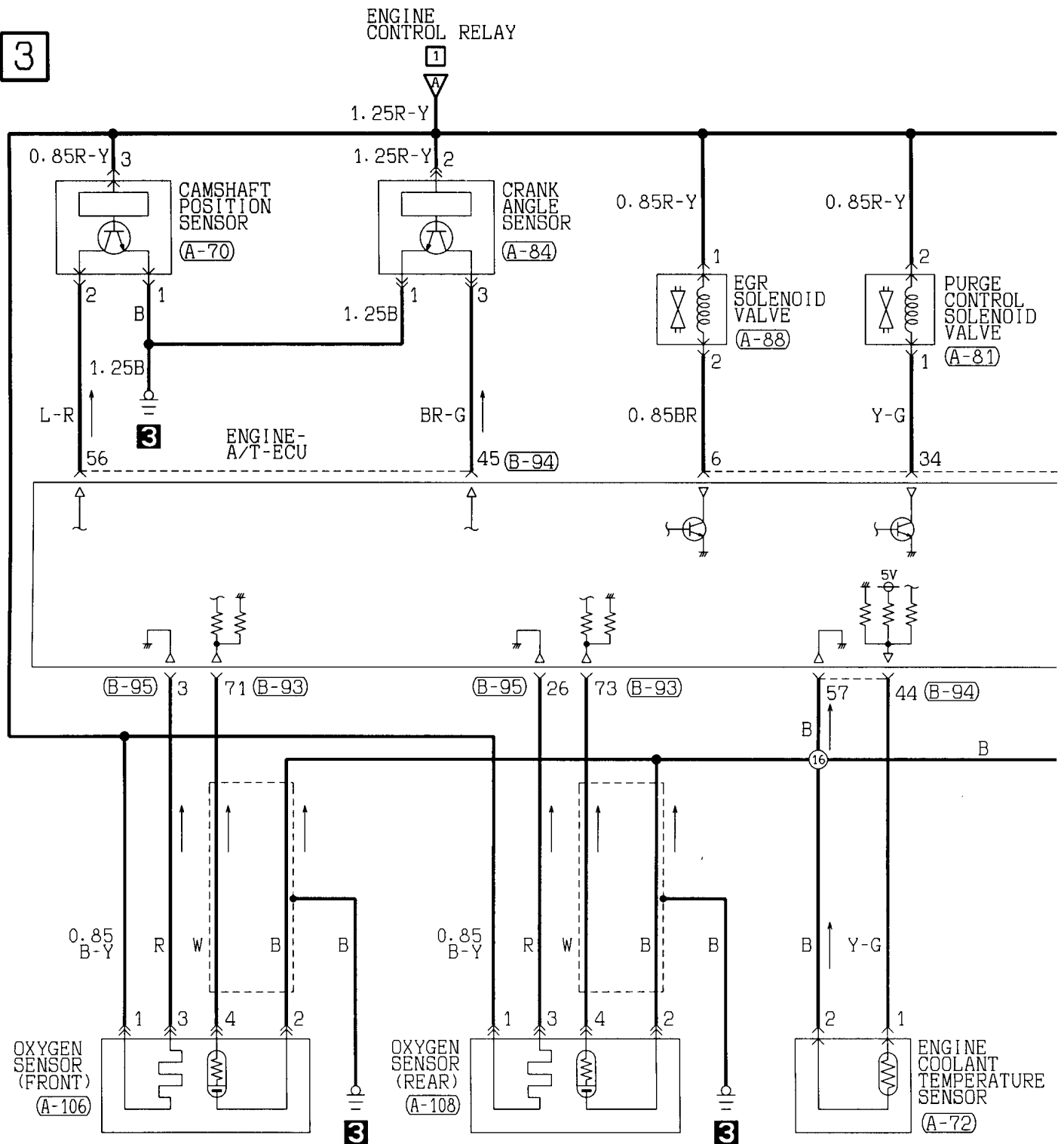


Wire colour code

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

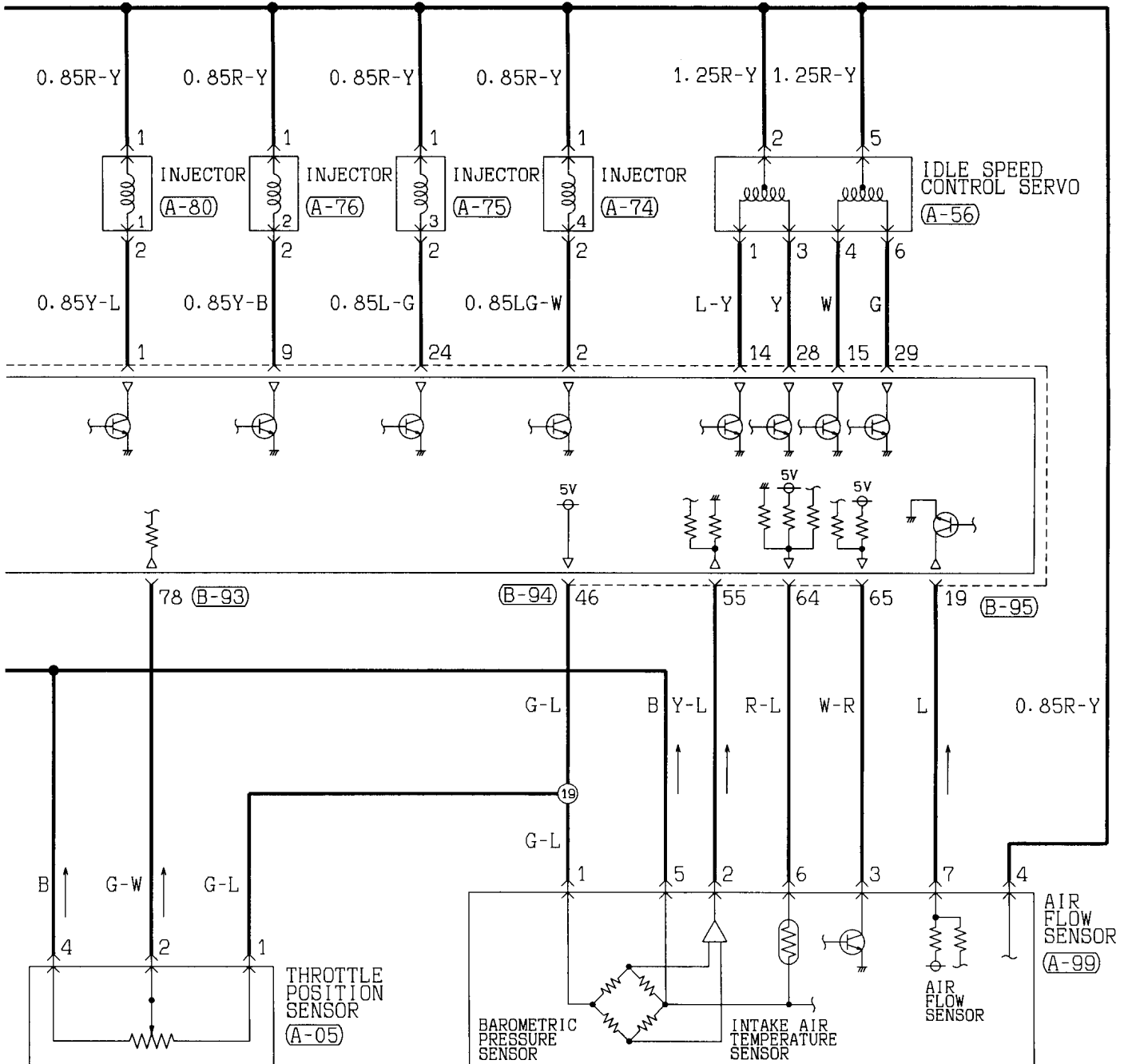
MPI SYSTEM <4G92-A/T> (CONTINUED)

3



- (A-05)
(MU802724)
- (A-56)
- (A-70)
- (A-72)
(MU802406)
- (A-74)
- (A-75)
- (A-76)
- (A-80)
- (A-81)
MU802779
- (A-84)
(MU802053)
- (A-88)
- (A-99)
- (A-106)
MU802605

4



(A-108) MU802605

1	2
3	4

(B-93) (MU803782)

71	72	73	74	75	76	77					
78	79	80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98			

(B-94) (MU803781)

41	42	43	44	45	46					
47	48	49	50	51	52	53	54	55	56	57
58	59	60	61	62	63	64	65	66		

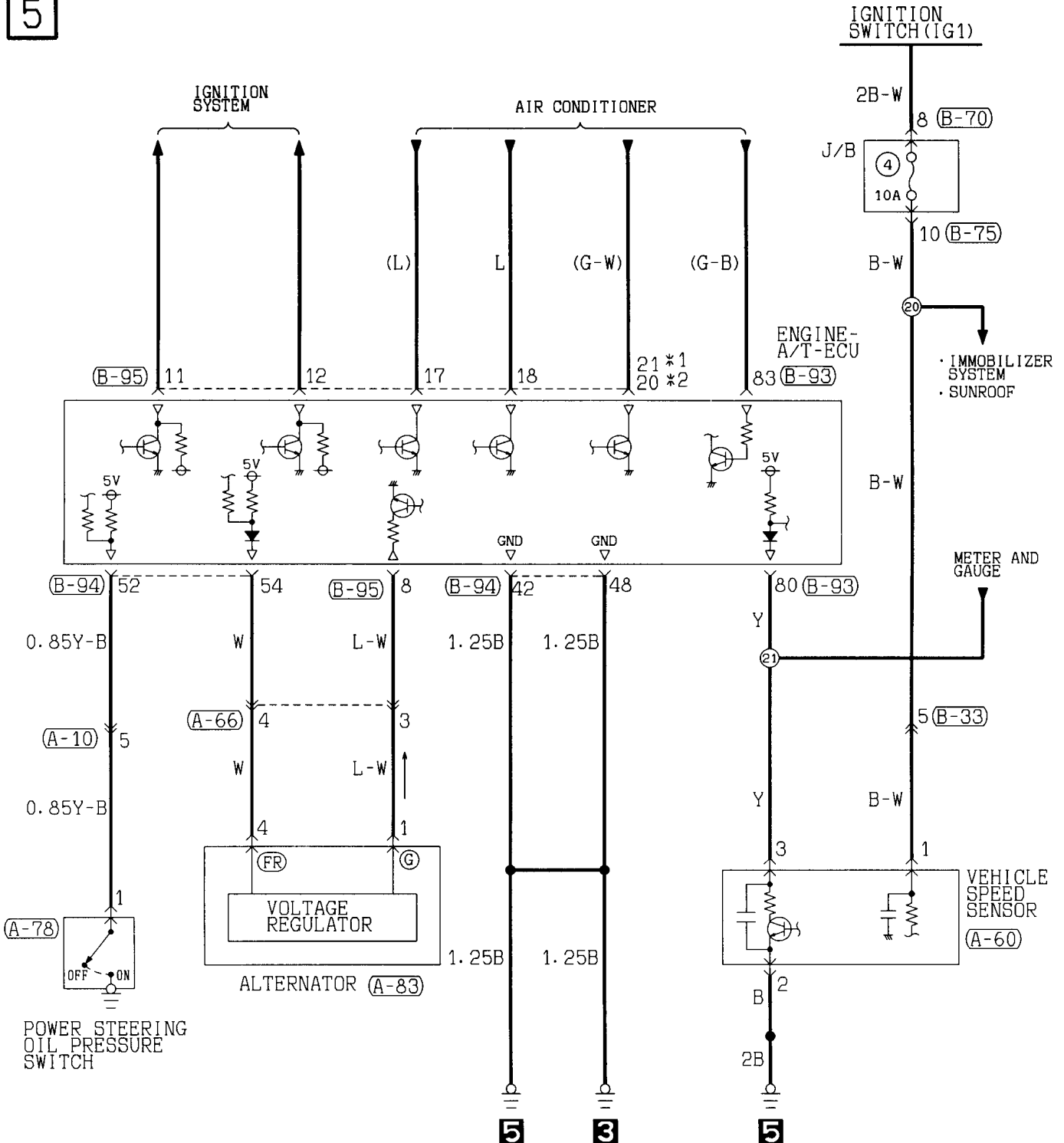
(B-95) (MU803784)

1	2	3	4	5	6	7	8							
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	32	33	34	35			

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

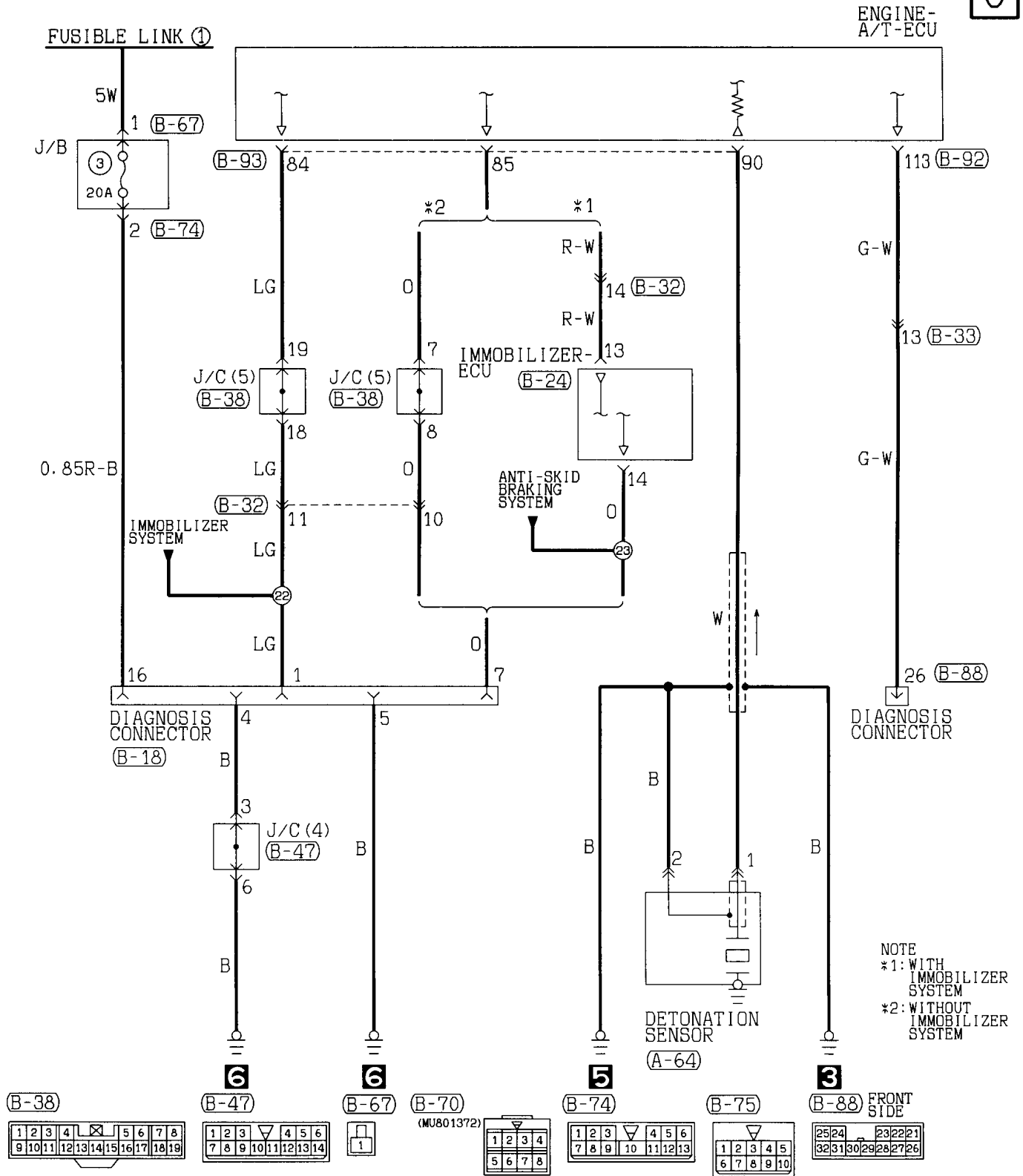
MPI SYSTEM <4G92-A/T> (CONTINUED)

5



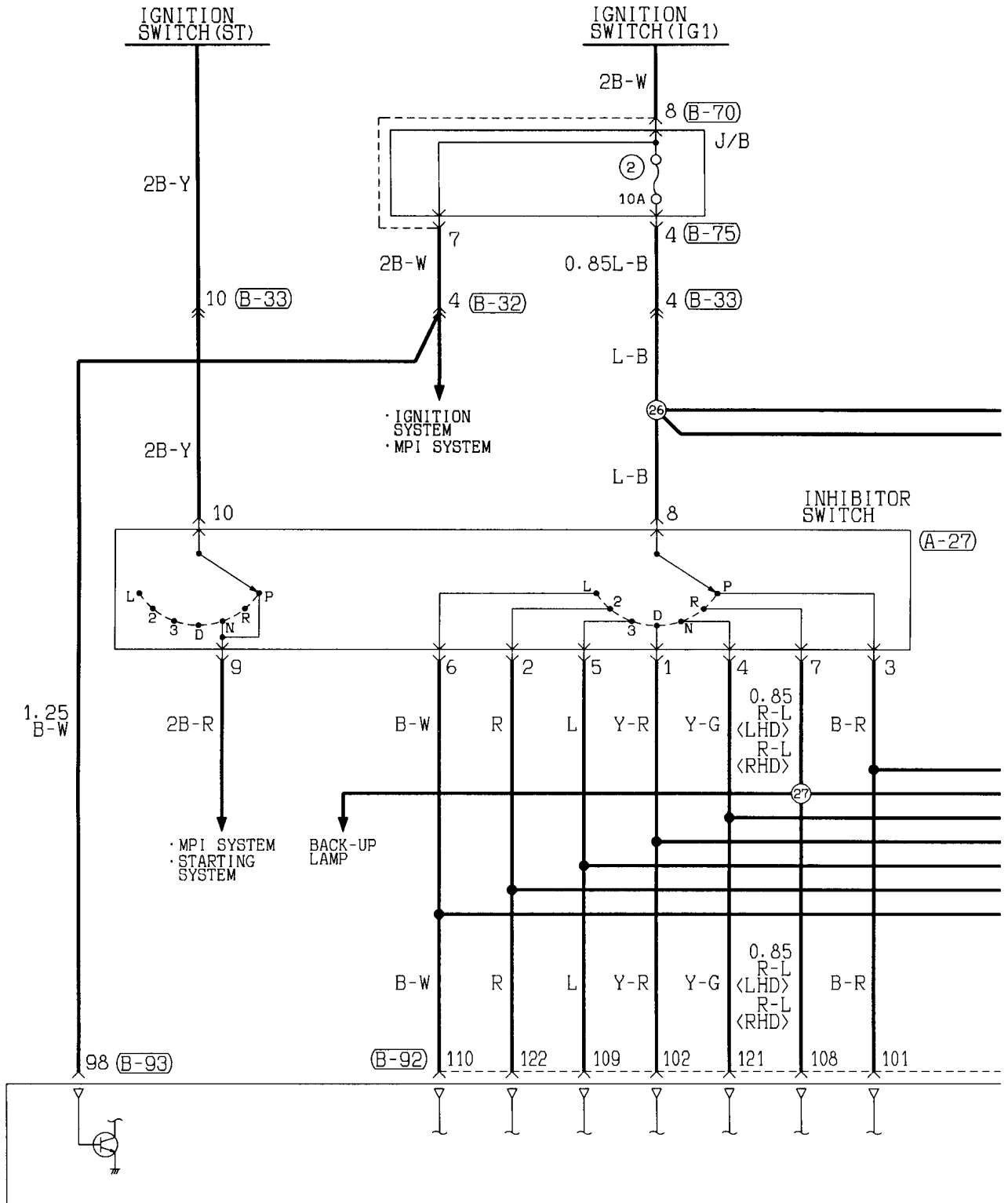
(A-10) (MU802607)	(A-60) (MU802723)	(A-66) (MU802665)	(A-78)	(A-83)	(B-18) FRONT SIDE	(B-24) (MU801584)	(B-32)	(B-33)
1 2 3 4 5 6	1 2 3	1 2 3 4	1	1 2 3 4	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	1 2 3 4 5 6 7 8 9 10 11 12 13
(B-92) (MU803783)	(B-93) (MU803782)	(B-94) (MU803781)	(B-95) (MU803784)					
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130	71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35					

6

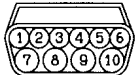


ELC 4-SPEED AUTOMATIC TRANSMISSION

1



(A-27)
MU802355



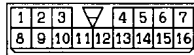
(A-62)



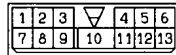
(A-67)



(B-32)



(B-33)

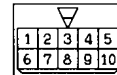


(B-70)

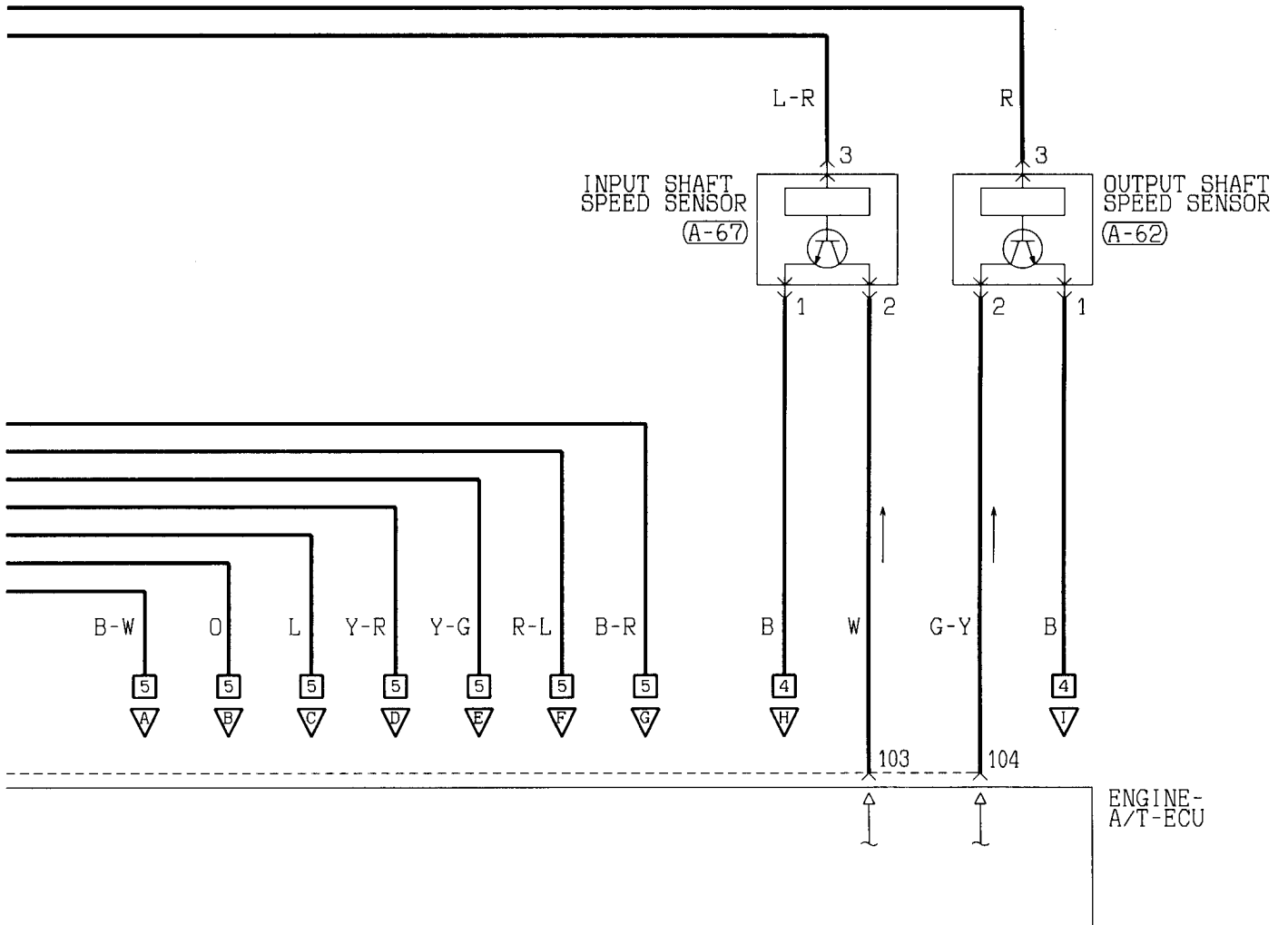
(MU801372)



(B-75)



2



(B-92) (MU803783)

101	102	103	104	105	106	107						
108	109	110	111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130			

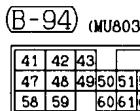
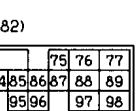
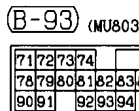
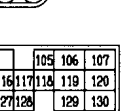
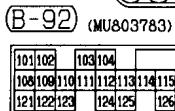
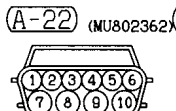
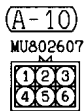
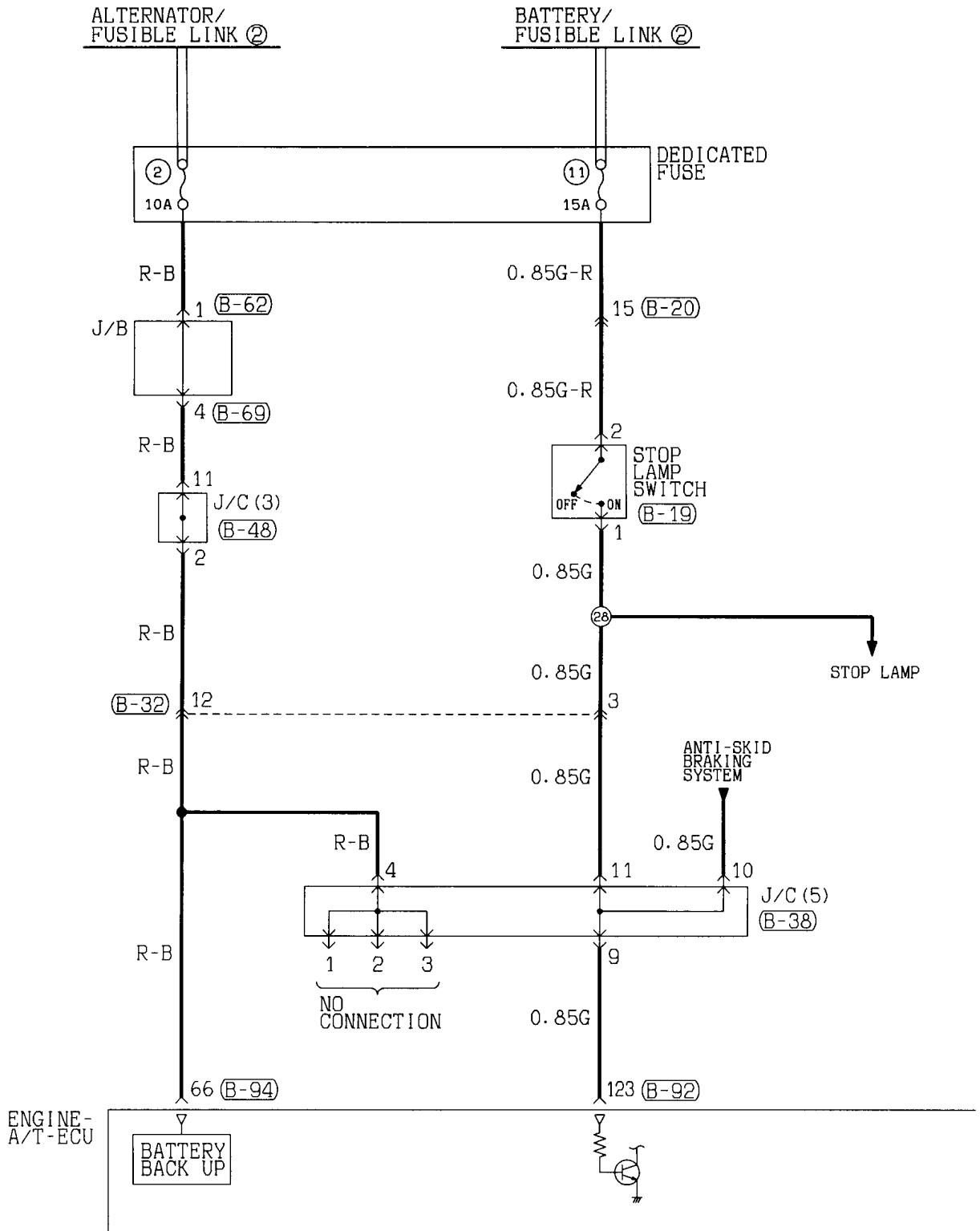
(B-93) (MU803782)

71	72	73	74	75	76	77					
78	79	80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98			

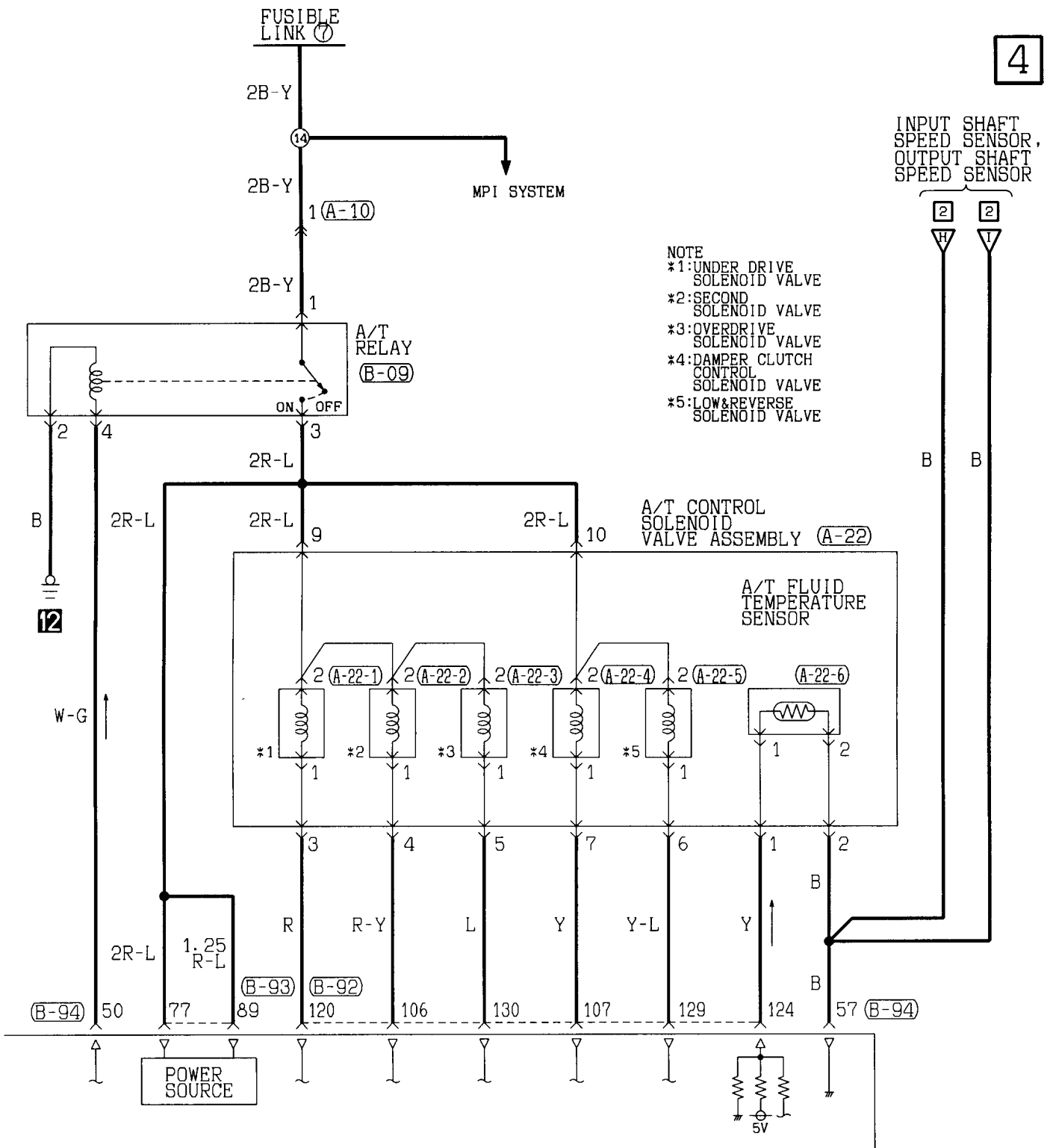
Wire colour code
 B : Black LG: Light green G : Green L : Blue W : White Y : Yellow SB: Sky blue
 BR: Brown O : Orange GR: Gray R : Red P : Pink V : Violet

ELC 4-SPEED AUTOMATIC TRANSMISSION (CONTINUED)

3



4



(B-32)

1	2	3	▽	4	5	6	7	
8	9	10	11	12	13	14	15	16

(B-38)

1	2	3	4	⊗	5	6	7	8		
9	10	11	12	13	14	15	16	17	18	19

(B-48)

1	2	3	▽	4	5	6	
7	8	9	10	11	12	13	14

(B-62)

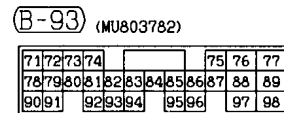
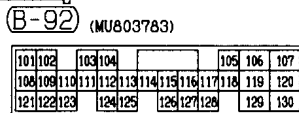
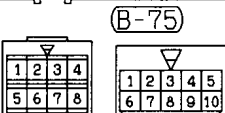
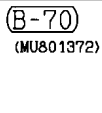
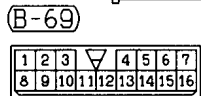
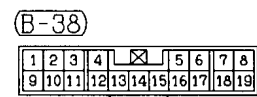
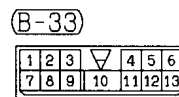
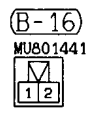
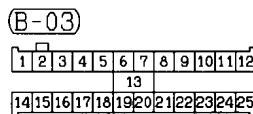
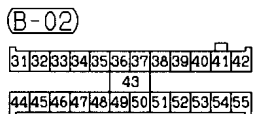
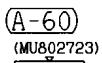
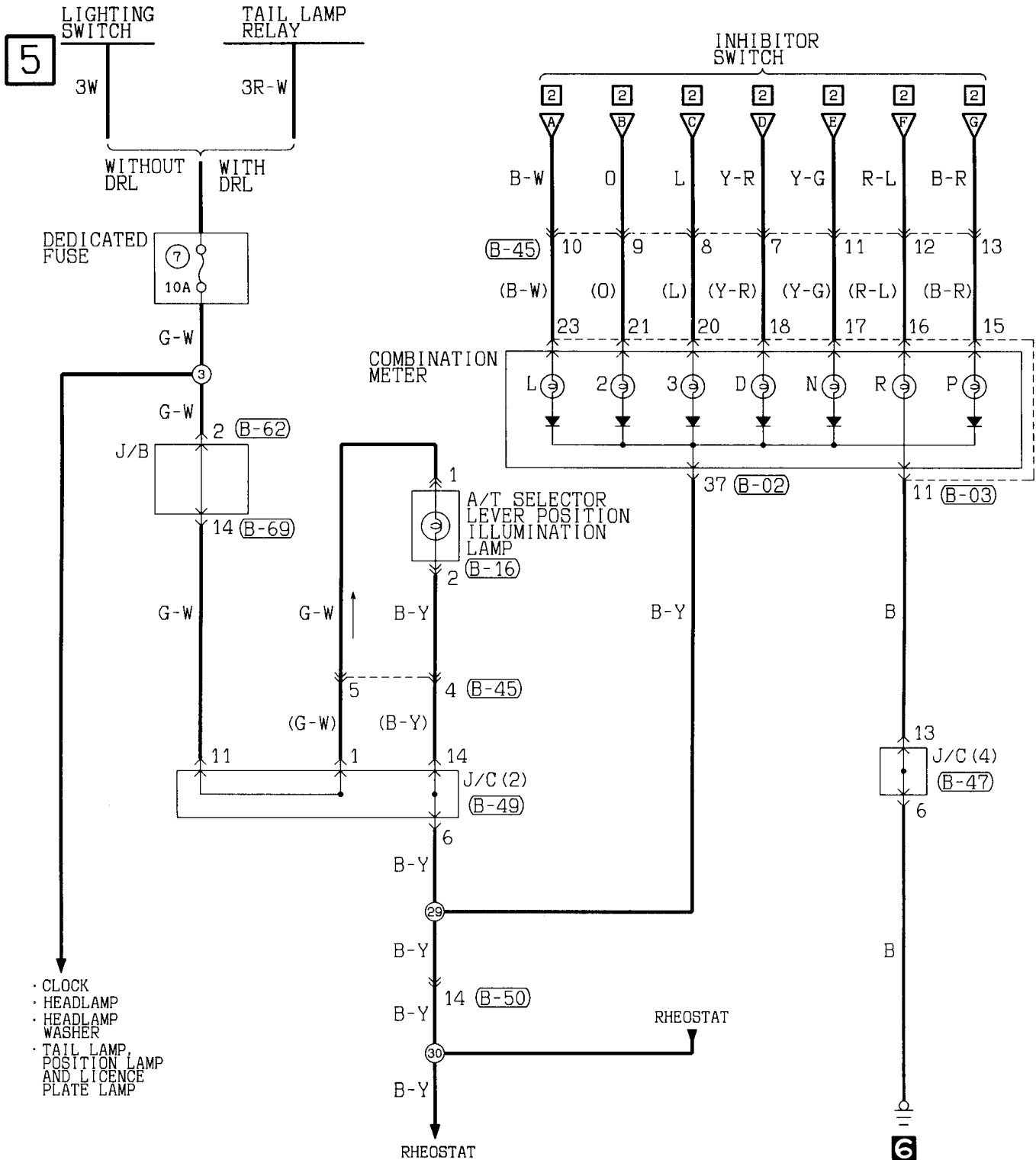
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5	6	7	8	9	10	11

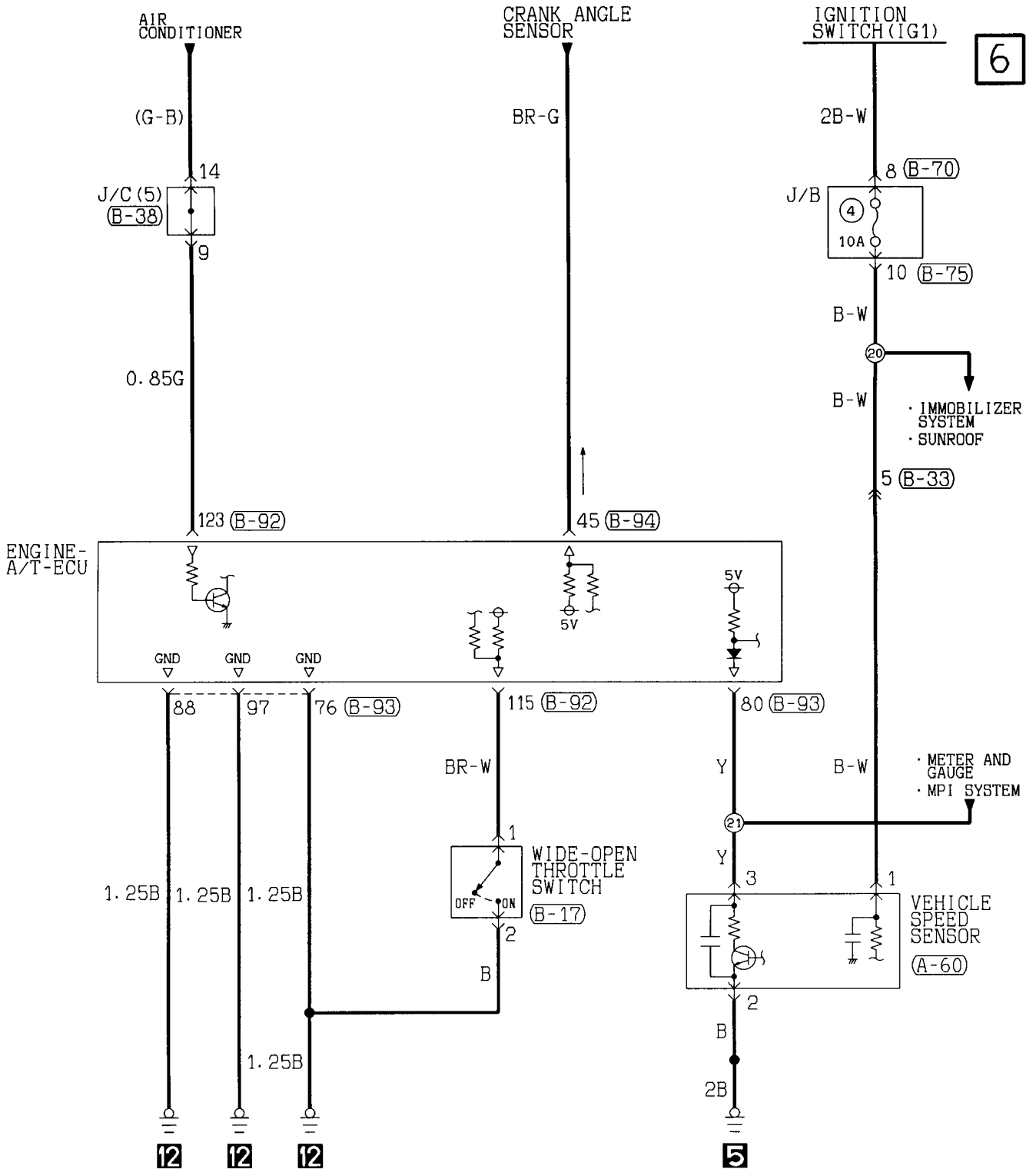
(B-69)

1	2	3	▽	4	5	6	7	
8	9	10	11	12	13	14	15	16

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

ELC 4-SPEED AUTOMATIC TRANSMISSION (CONTINUED)





(B-45)

1	2	3	4	5	6
7	8	9	10	11	12
13	14				

(B-47)

1	2	3	4	5	6
7	8	9	10	11	12
13	14				

(B-49)

1	2	3	4	5	6
7	8	9	10	11	12
13	14				

(B-50)

MU801455 (LHD)

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18						

MU801461 (RHD)

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22								

(B-62)

1	2	3	4
5	6	7	8
9	10	11	

(B-94) (MU803781)

41	42	43	44	45	46
47	48	49	50	51	52
53	54	55	56	57	
58	59	60	61	62	63
64	65	66			

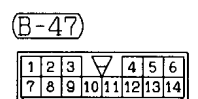
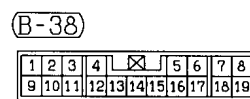
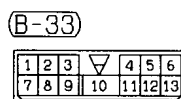
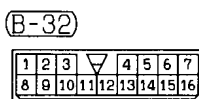
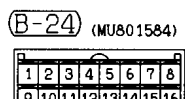
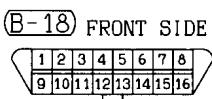
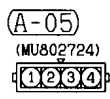
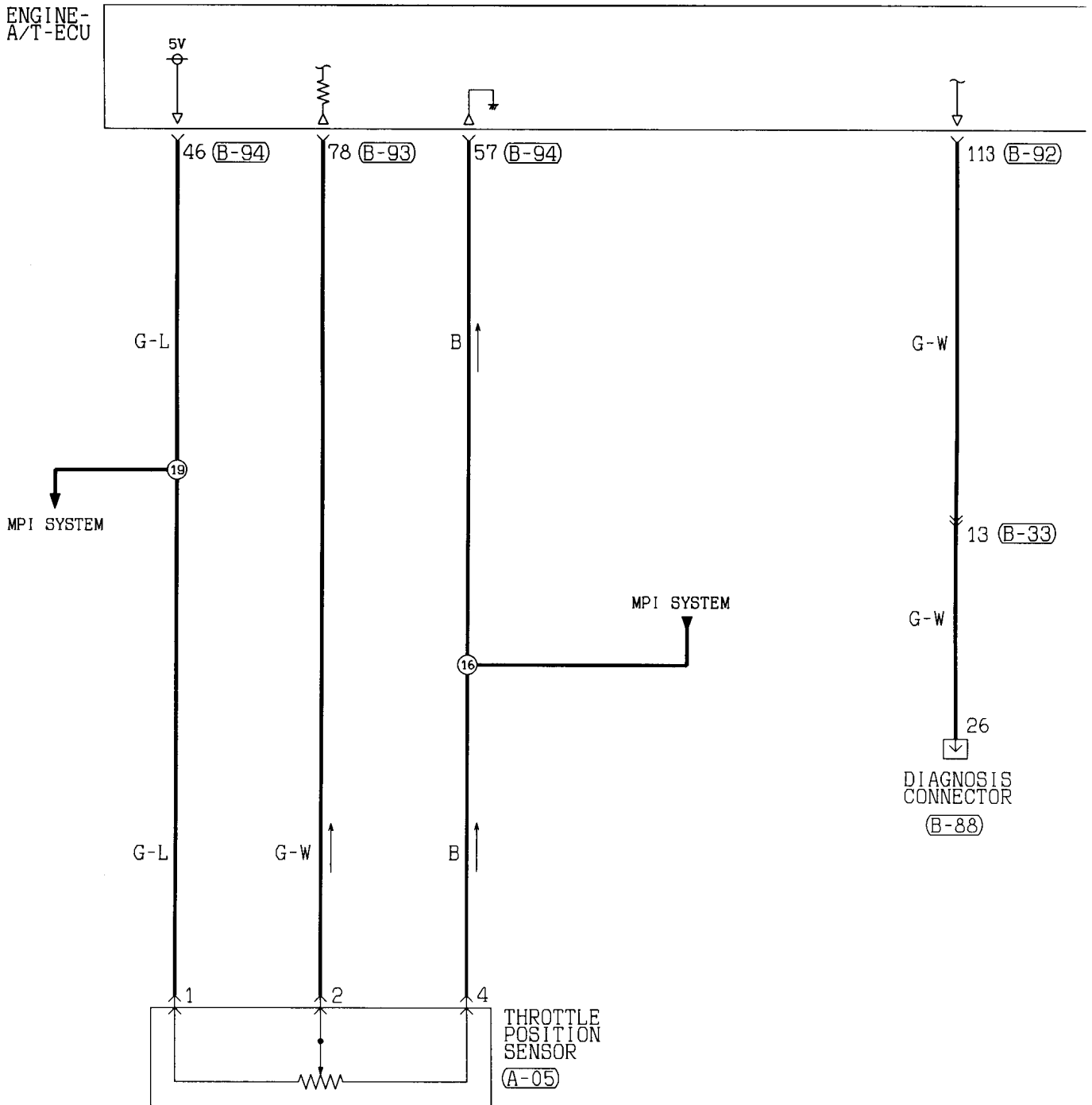
Wire colour code
 B : Black
 BR : Brown
 W : White
 V : Violet

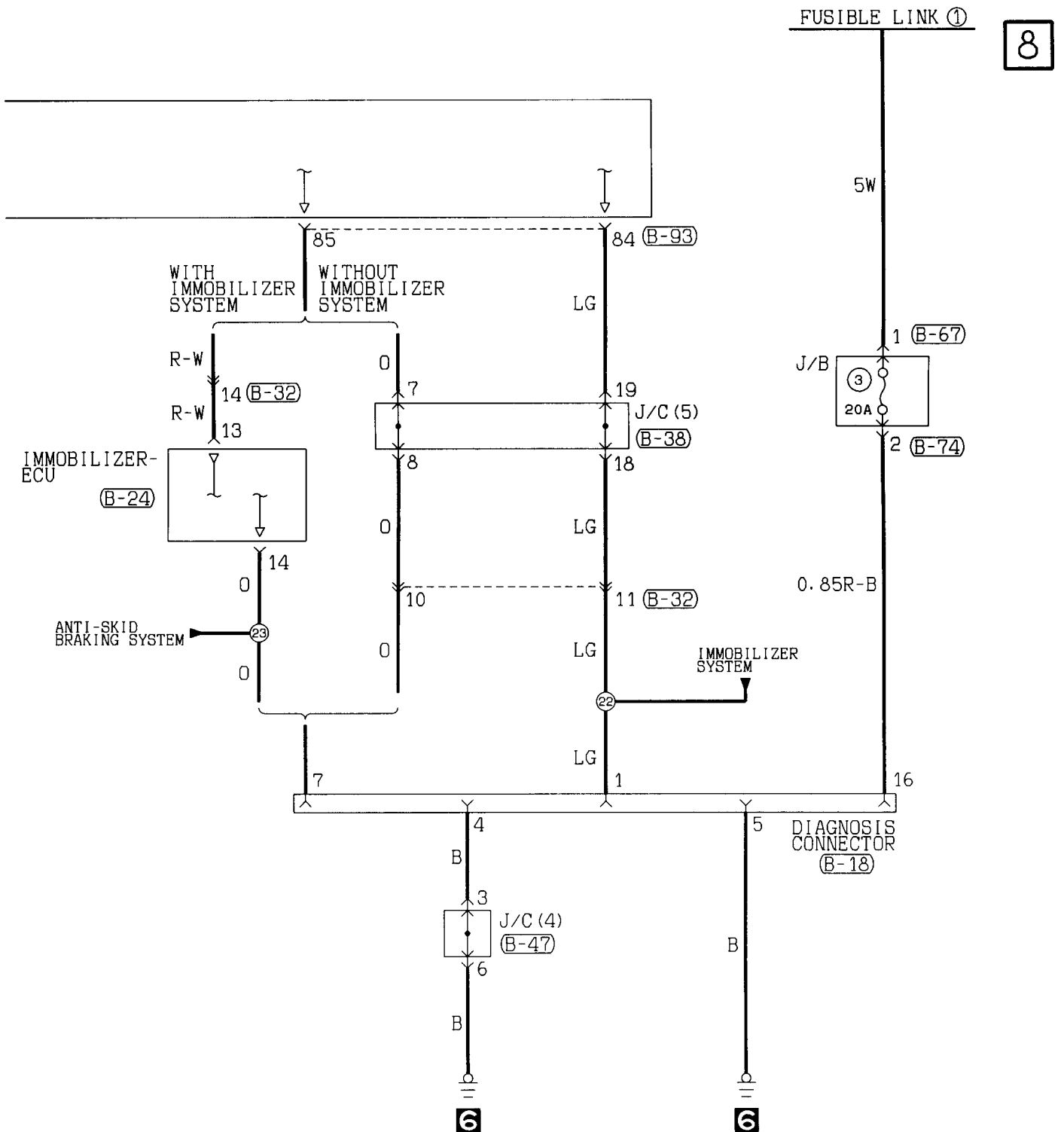
LG : Light green
 O : Orange
 SB : Sky blue

G : Green
 GR : Gray
 P : Pink
 L : Blue
 R : Red
 Y : Yellow

ELC 4-SPEED AUTOMATIC TRANSMISSION (CONTINUED)

7



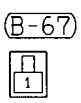
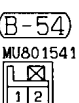
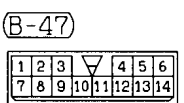
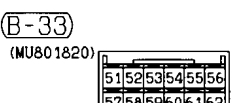
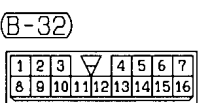
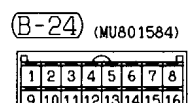
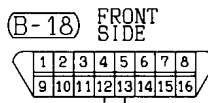
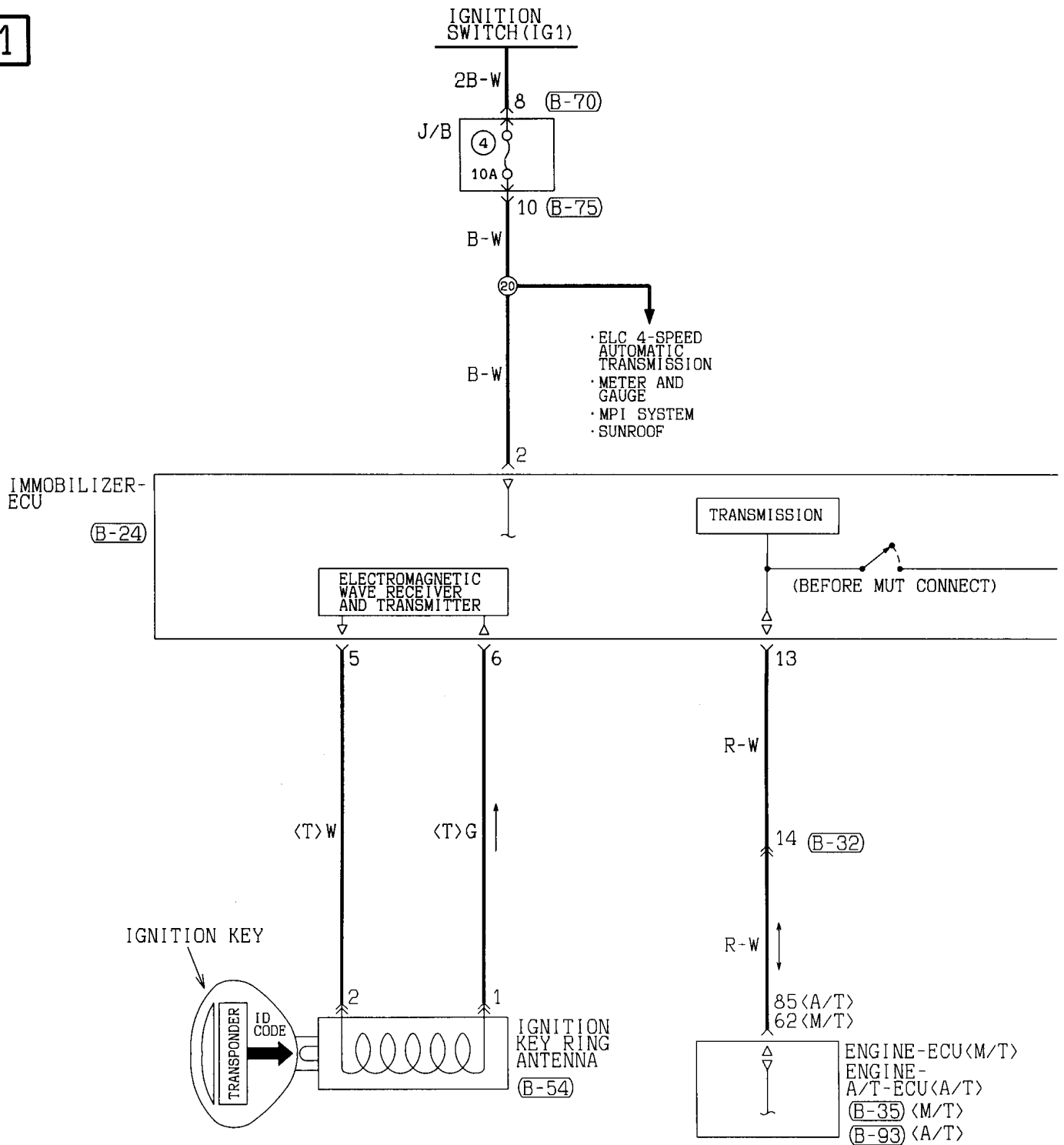


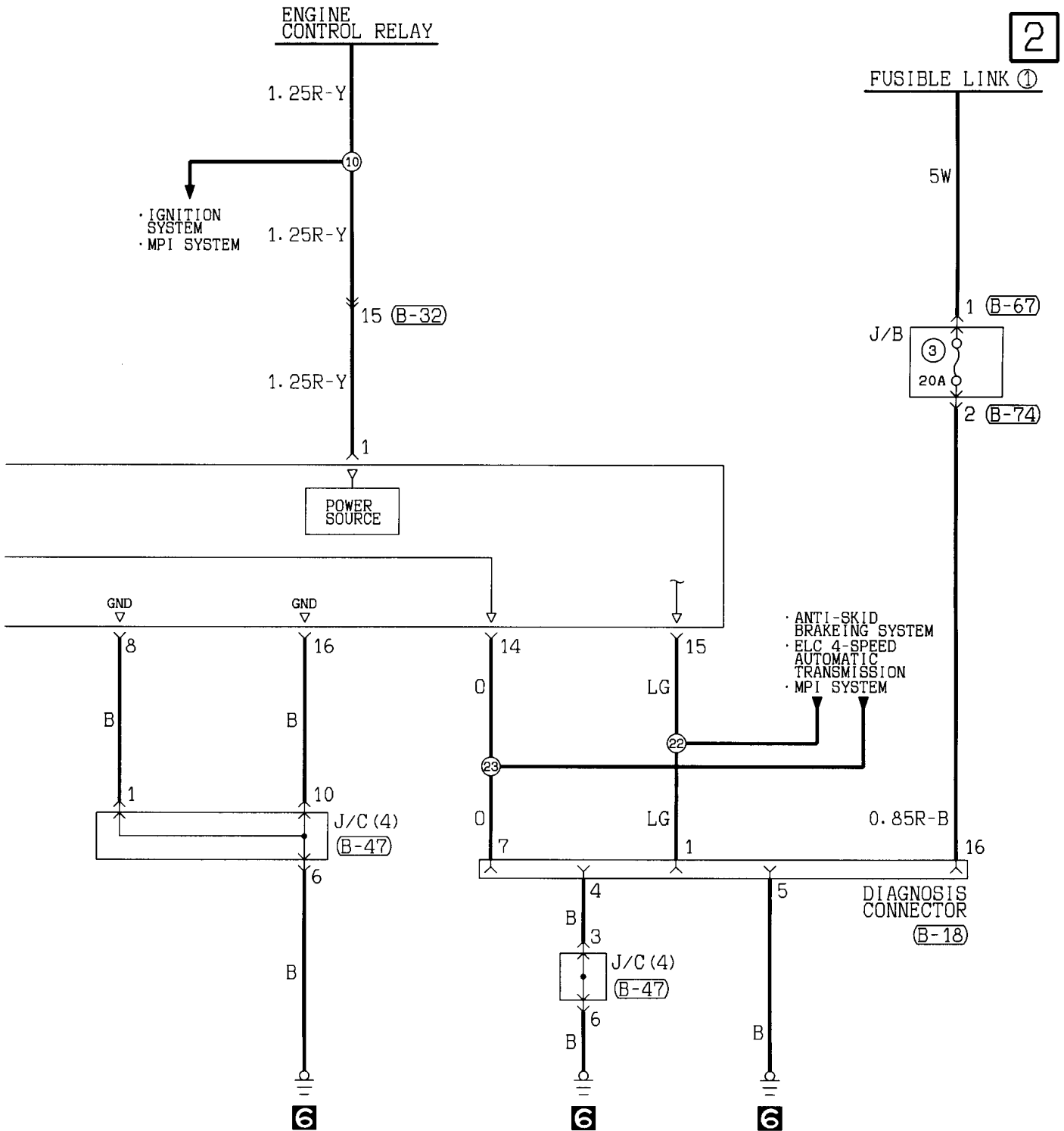
(B-67)	(B-74)	(B-88) FRONT SIDE	(B-92) (MU803783)	(B-93) (MU803782)	(B-94) (MU803781)																																																																																																																														
1	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr> <tr><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	<table border="1"> <tr><td>25</td><td>24</td><td>23</td><td>22</td><td>21</td></tr> <tr><td>32</td><td>31</td><td>30</td><td>29</td><td>28</td></tr> <tr><td>27</td><td>26</td><td>25</td><td>24</td><td>23</td></tr> </table>	25	24	23	22	21	32	31	30	29	28	27	26	25	24	23	<table border="1"> <tr><td>101</td><td>102</td><td>103</td><td>104</td><td>105</td><td>106</td><td>107</td></tr> <tr><td>108</td><td>109</td><td>110</td><td>111</td><td>112</td><td>113</td><td>114</td></tr> <tr><td>115</td><td>116</td><td>117</td><td>118</td><td>119</td><td>120</td><td>121</td></tr> <tr><td>122</td><td>123</td><td>124</td><td>125</td><td>126</td><td>127</td><td>128</td></tr> <tr><td>129</td><td>130</td><td>131</td><td>132</td><td>133</td><td>134</td><td>135</td></tr> </table>	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	<table border="1"> <tr><td>71</td><td>72</td><td>73</td><td>74</td><td>75</td><td>76</td><td>77</td></tr> <tr><td>78</td><td>79</td><td>80</td><td>81</td><td>82</td><td>83</td><td>84</td></tr> <tr><td>85</td><td>86</td><td>87</td><td>88</td><td>89</td><td>90</td><td>91</td></tr> <tr><td>92</td><td>93</td><td>94</td><td>95</td><td>96</td><td>97</td><td>98</td></tr> </table>	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	<table border="1"> <tr><td>41</td><td>42</td><td>43</td><td>44</td><td>45</td><td>46</td></tr> <tr><td>47</td><td>48</td><td>49</td><td>50</td><td>51</td><td>52</td></tr> <tr><td>53</td><td>54</td><td>55</td><td>56</td><td>57</td><td>58</td></tr> <tr><td>59</td><td>60</td><td>61</td><td>62</td><td>63</td><td>64</td></tr> <tr><td>65</td><td>66</td><td>67</td><td>68</td><td>69</td><td>70</td></tr> </table>	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
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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

IMMOBILIZER SYSTEM

1





(B-70) (MU801372)

1	2	3	4
5	6	7	8

(B-74)

1	2	3	4	5	6	
7	8	9	10	11	12	13

(B-75)

1	2	3	4	5
6	7	8	9	10

(B-93) (MU803782)

71	72	73	74	75	76	77					
78	79	80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98			

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