# ELECTRICAL WIRING (EVOLUTION-IV)

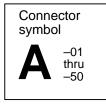
CONTENTS

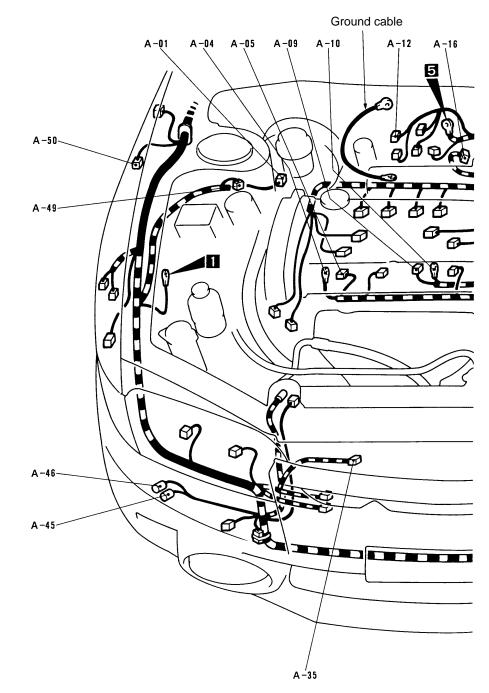
WIRING HARNESS CONFIGURATION	
DIAGRAMS	. 2
ENGINE COMPARTMENT	2
DASH PANEL	6
FLOOR, ROOF, AND SEAT	12
LUGGAGE COMPARTMENT	14
SINGLE PART INSTALLATION	
POSITION	16
RELAY	16
ECU	17
SENSOR	18
SOLENOID VALVE	20
CHECK CONNECTOR AND SPARE CONNECTOR	21
FUSIBLE LINK AND FUSE	22
GROUND CABLE	22
GROUND	22
CIRCUIT DIAGRAM	23
CENTRALIZED JUNCTION	23
POWER DISTRIBUTION SYSTEM	24
STARTING SYSTEM	29
IGNITION SYSTEM	30
CHARGING SYSTEM	31
ENGINE CONTROL SYSTEM	32
COOLING SYSTEM	38
TAIL LAMP, POSITION LAMP, LICENSE PLATE LAMP AND LIGHTING MONITOR	
ALARM BUZZER	40

FOG LAMP	42
ROOM LAMP AND LUGGAGE COMPARTMENT LAMP	43
TURN-SIGNAL LAMP AND HAZARD LAMP	44
STOP LAMP	47
BACK-UP LAMP	48
HORN	
<vehicles air="" bag="" srs="" without=""> .</vehicles>	49
OIL PRESSURE WARNING LAMP	50
CENTRAL DOOR LOCKING SYSTEM	
<pre><vehicles entry<="" keyless="" pre="" with=""></vehicles></pre>	
SYSTEM>	52
HEATER AND MANUAL	EC
	56
FULLY AUTOMATIC AIR CONDITIONER	62
WINDSHIELD WIPER AND WASHER	70
<intermittent wiper=""></intermittent>	
REAR WIPER AND WASHER	71
DEFOGGER AND DOOR MIRROR	
HEATER <vehicles fully<br="" without="">AUTOMATIC AIR CONDITIONER&gt;</vehicles>	72
DEFOGGER AND DOOR MIRROR	12
HEATER <vehicles fully<="" td="" with=""><td></td></vehicles>	
AUTOMATIC AIR CONDITIONER>	74
SPARE CONNECTOR FOR RADIO	76
RADIO <4-SPEAKER, 6-SPEAKER>	78
ANTI-LOCK BRAKE SYSTEM (ABS)	80
ACTIVE YAW CONTROL SYSTEM (AYC)	
INTERCOOLER WATER SPRAY SYSTEM	

# WIRING HARNESS CONFIGURATION DIAGRAMS

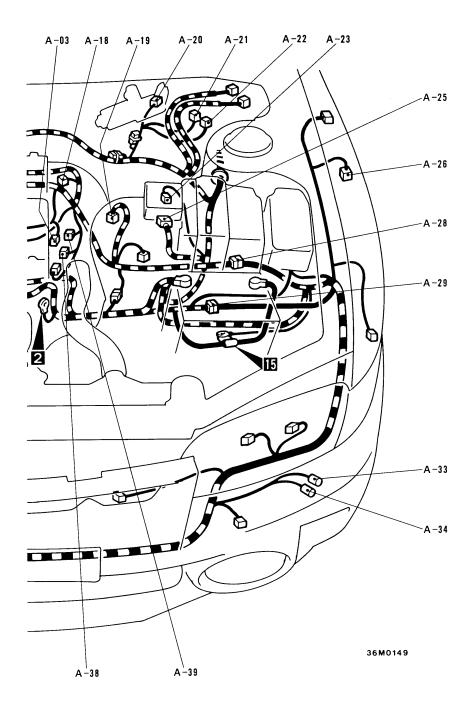
# ENGINE COMPARTMENT



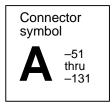


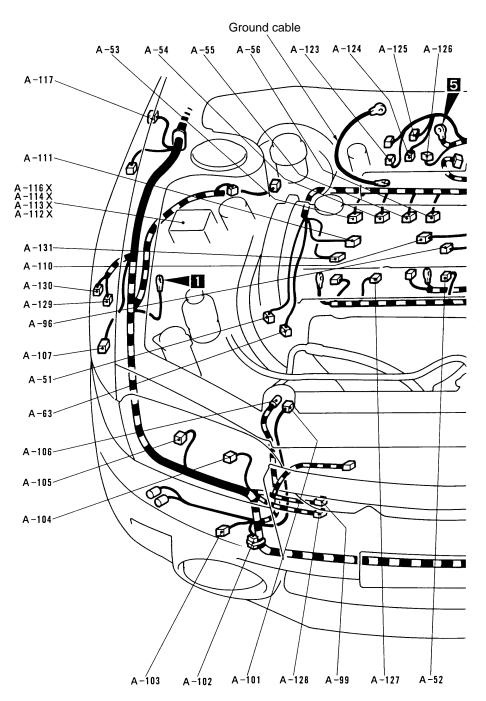
A-01 (2-B) A-03 (1-B) A-04 (1) A-05 (4-GR) A-09 (1-B) A-10 (1) A-12 (2-B) A-16 (4-B) A 18 (6 D)	Brake fluid level switch Noise condenser Alternator Alternator Starter Starter Fuel pressure solenoid valve Throttle position sensor
A-18 (6-B) A-19 (3-B)	Idle speed control servo Vehicle speed sensor

A-20 (4-B) A-21 (8-B) A-22 (2-B) A-23 (2-B)	Windshield wiper motor Hydraulic unit <vehicles abs="" with=""> Hydraulic unit <vehicles abs="" with=""> Waste gate solenoid valve</vehicles></vehicles>		
A-25 (7-B)	Air flow sensor		
A-26 (2-B)	Front speed sensor (LH) <vehicles abs="" with=""></vehicles>		
A-28 (8-B)	Control harness and front harness combination		



A-29 (2-B)	Front harness and battery harness combination	A-39 (1-B) A-45 (1)	Engine coolant temperature gauge unit Horn (RH)
A-33 (1)	Horn (LH)	A-46 (1)	Horn (RH)
A-34 (1)	Horn (LH)	A-49 (2-BR)	Dual pressure switch
A-35 (2-BR)	Outside air temperature sensor <vehicles air="" automatic="" conditioner="" fully="" with=""></vehicles>	A-50 (2-B)	Front speed sensor (RH) <vehicles abs="" with=""></vehicles>
A-38 (2-B)	Engine coolant temperature sensor		

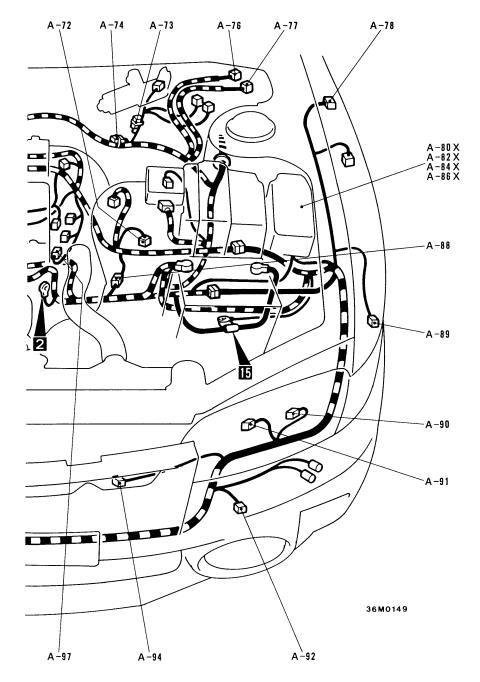




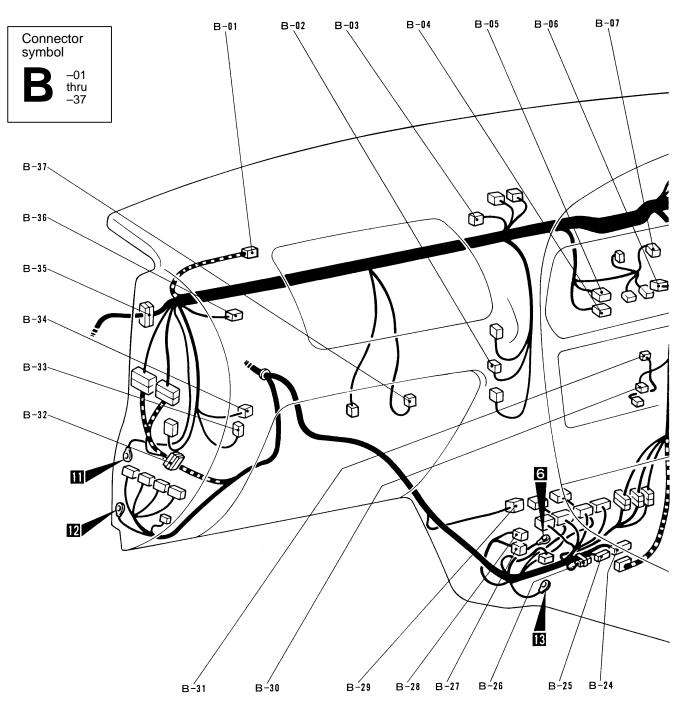
A-51 (3-B) A-52 (1-B) A-53 (2-B) A-54 (2-B) A-55 (2-B) A-56 (2-B)	Crank angle sensor Oil pressure switch Injector (No.1) Injector (No.2) Injector (No.3) Injector (No.4)
A-63 (2-B)	O <sub>2</sub> sensor
A-72 (2-B)	Back-up lamp switch
A-73 (1-L)	Engine speed detection connector
A-74 (1-B)	Fuel pump check connector
A-76 (6)	Valve relay <vehicles abs="" with=""></vehicles>
A-77 (5)	Motor relay <vehicles abs="" with=""></vehicles>

A-77 (5) Motor relay <venicies with F A-78 (2-GR) Side turn signal lamp (LH)

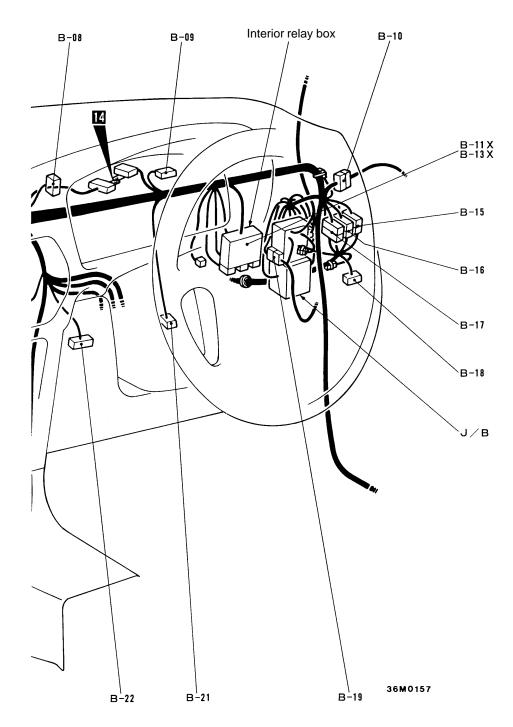
A-80X (5) A-82X (5) A-84X (5) A-86X (4) A-88 (6-B)	Horn relay <vehicles air="" bag="" srs="" with=""> Radiator fan relay (LO) Headlamp relay Alternator relay Control harness and battery harness combination</vehicles>
A-89 (2-BR)	Front turn signal lamp (LH)
A-90 (3-B)	Headlamp (LH)
A-91 (2)	Position lamp (LH)
A-92 (2-B)	Fog lamp (LH)
A-94 (4-GR)	Radiator fan motor
A-96 (2-GR)	Knock sensor



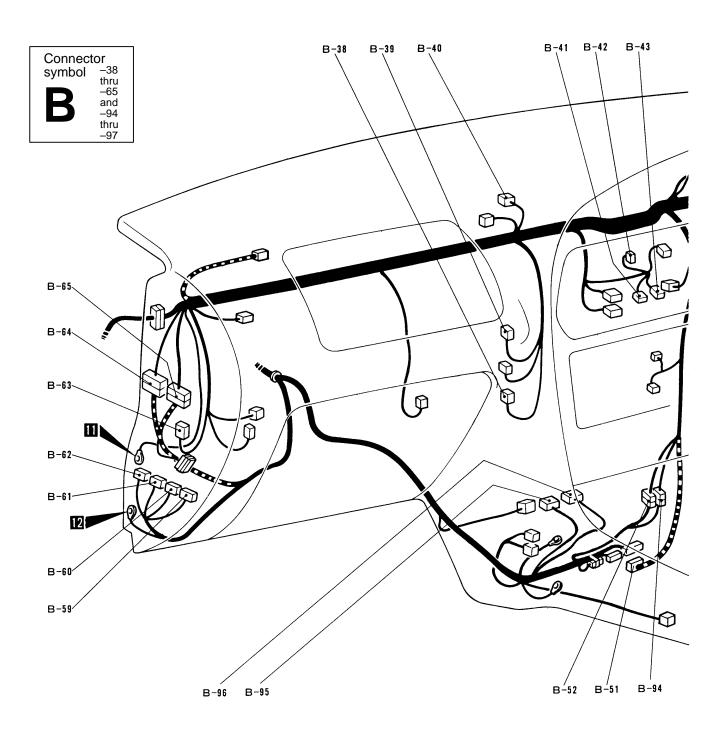
#### DASH PANEL



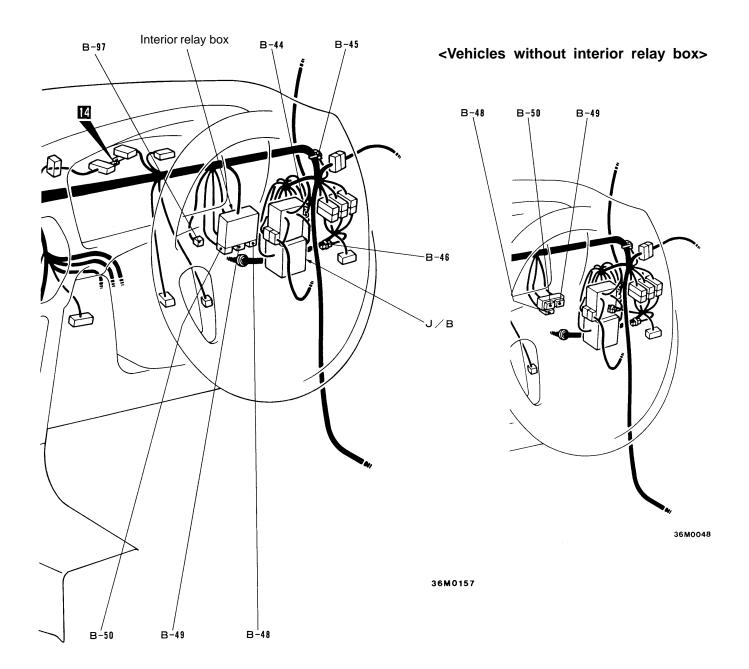
- B-01 (2-R) Passenger seat air bag module (squib) B-02 (2) Heater water temperature sensor
- <vehicles with fully automatic air conditioner>
  B-03 (2-B) Air thermo sensor <vehicles with fully automatic air conditioner>
- B-04 (20-B) A/C-ECU <vehicles with fully automatic air conditioner>
- B-05 (16-B) A/C-ECU <vehicles with fully automatic air conditioner>
- B-06 (6) Air outlet change-over damper motor and potentiometer <vehicles with fully automatic air conditioner>
- B-07 (8) Blower switch <vehicles with manual air conditioner> Meter and gauge B-08 (25) B-09 (25) Meter and gauge B-10 (22) Body harness and front door harness (RH) combination B-11X (8) Rear intermittent wiper relay B-13X (5) Power window relay Front harness and body harness combination B-15 (20)
- B-16 (6) Front harness and body harness combination
- B-17 (14) Front harness and body harness combination <ABS, AYC>
- B-18 (19) Jumper connector (1)



B-19 (22)	Body harness and instrument panel harness combination	B-33 (2)	Blower motor <vehicles air="" automatic="" conditioner="" fully="" with=""></vehicles>
B-21 (2) B-22 (16-B)	Stop lamp switch (driver side) Diagnosis connector	B-34 (4)	Blower high speed relay <vehicles air="" automatic="" conditioner="" fully="" with=""></vehicles>
B-24 (26-Y) B-25 (16)	ABS-ECU ABS-ECU	B-35 (22)	Body harness and front door harness (LH) combination
B-26 (2-É)	Diode (for ABS circuit)	B-36 (2)	Inside and outside air change-over damper
B-27 (4) B-28 (4)	Engine control relay Fuel pump relay		motor <vehicles air="" automatic="" conditioner="" fully="" with=""></vehicles>
B-29 (4-B) B-30 (14)	A/T relay Radio or spare connector for radio	B-37 (4)	Power transistor <vehicles automatic<br="" fully="" with="">air conditioner&gt; or resistor <vehicles td="" with<=""></vehicles></vehicles>
B-31 (1) B-32 (19-B)	Glass antenna amplifier Jumper connector (5)		heater or manual air conditioner>

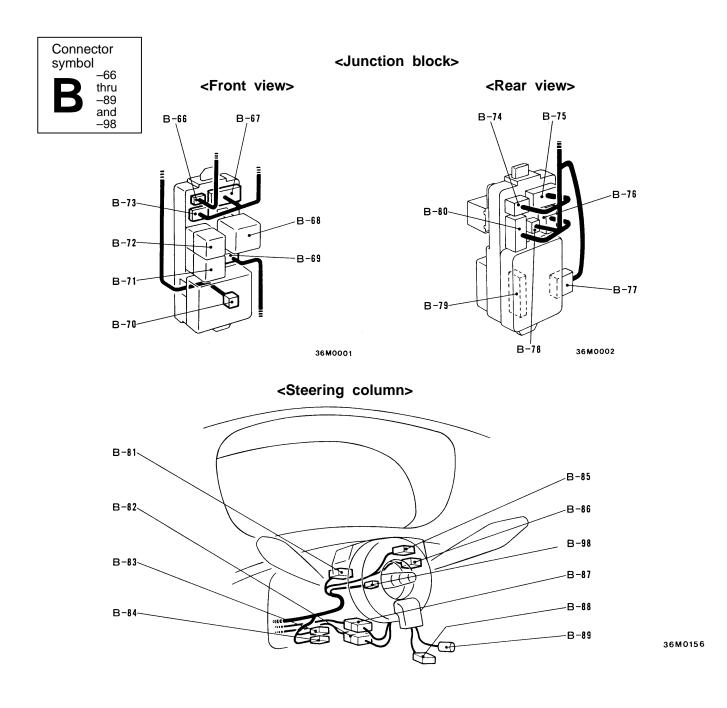


B-38 (2)	Sunlight sensor <vehicles air="" automatic="" conditioner="" fully="" with=""></vehicles>	B-43 (6-B)	Defogger switch <vehicles heater="" or<br="" with="">manual air conditioner&gt;</vehicles>
B-39 (6)	Air mix damper motor and potentiometer <vehicles air="" automatic="" condi-<="" fully="" td="" with=""><td>B-44 (6)</td><td>Body harness and roof harness combina- tion <vehicles sunroof="" with=""></vehicles></td></vehicles>	B-44 (6)	Body harness and roof harness combina- tion <vehicles sunroof="" with=""></vehicles>
	tioner>	B-45 (2-B)	Diode (for keyless entry system circuit)
B-40 (3)	Automatic compressor ECU <vehicles air="" conditioner="" manual="" with=""></vehicles>	B-46 (2)	Spare connector for fog lamp switch <vehicles fog="" lamp="" without=""></vehicles>
B-41 (8)	A/C switch	B-48 (14)	Jumper connector (2)
	<vehicles air="" conditioner="" manual="" with=""></vehicles>	B-49 (14)	Jumper connector (3)
B-42 (2)	Blower switch illumination lamp <vehicles air="" conditioner="" heater="" manual="" or="" with=""></vehicles>	B-50 (14-L) B-51 (21-Y)	Jumper connector (4) SRS-ECU



B-52 (16-B)	Control harness and body harness	B-65 (10
	combination <vehicles abs="" with=""></vehicles>	
B-59 (26-Y)	Engine-ECU	B-94 (1:
B-60 (16-Y)	Engine-ECU	
B-61 (12-Y)	Engine-ECU	B-95 (20
B-62 (22-Y)	Engine-ECU	B-96 (16
B-63 (2)	Blower motor <vehicles air="" conditioner="" heater="" manual="" or="" with=""></vehicles>	B-97 (2)
B-64 (13)	Control harness and body harness combination	

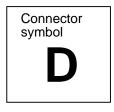
B-65 (16-B)	Control	harness	and	body	harness
	combina	tion			
B-94 (13)	Control	harness	and	body	harness
	combina	tion <vehi< td=""><td>cles w</td><td>ith AYC</td><td>)&gt;</td></vehi<>	cles w	ith AYC	)>
B-95 (26-Y)	AYC-EC	U			
B-96 (16)	AYC-EC	U			
B-97 (2)	Foot lam	р			

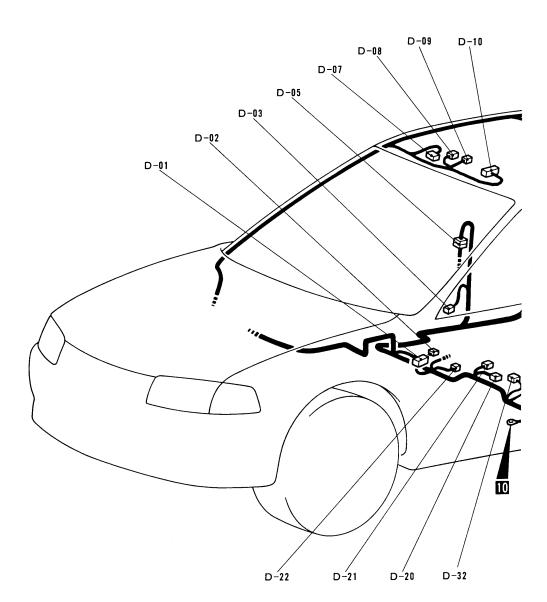


- B-66 (2) Junction block and roof harness combination
- B-67 (11) Junction block and front harness combination
- B-68 (3) Turn signal / hazard flasher unit
- B-69 (14) Junction block and instrument panel harness combination
- B-70 (4) Dedicated fuse (for sunroof circuit)
- B-71 (5) Defogger relay
- B-72 (5) Blower relay
- B-73 (1) Junction block and front harness combination
- B-74 (10) Junction block and body harness combination
- B-75 (10-B)Junction block and body harness combinationB-76 (8)Junction block and body harness combinationB-77 (8)ETACS-ECU
- B-78 (4) Junction block and body harness combination
- B-79 (12) Junction block and ETACS-ECU combination, or junction block and ECU combination B-80 (13) Junction block and body harness combination Column switch B-81 (12) B-82 (2-R) Clock spring <vehicles with SRS air bag> Ignition switch B-83 (6) B-84 (5) Key reminder switch Column switch B-85 (6) B-86 (10) Column switch B-87 (3) Clock spring (SRS) <vehicles with dual horn> Driver seat air bag module (squib) B-88 (2) B-89(1) Horn switch <vehicles with SRS air bag>
- B-98 (5) Steer sensor <vehicles with AYC>

#### NOTES

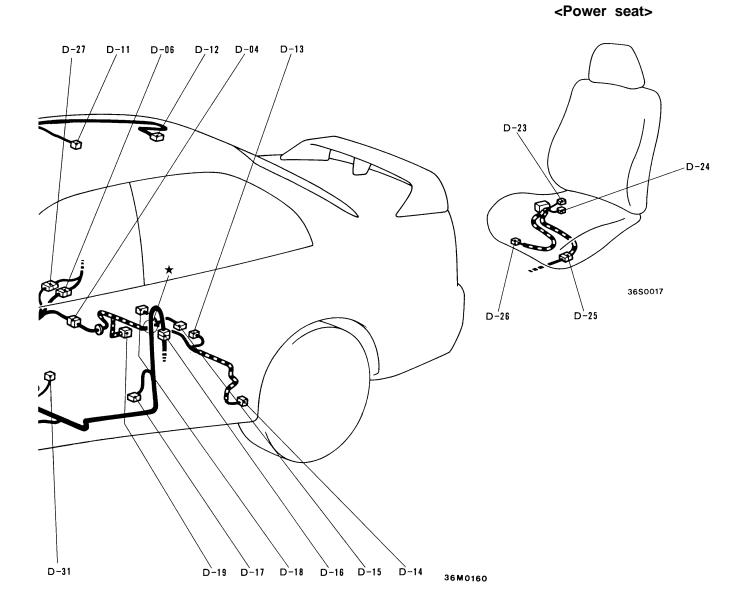
# FLOOR, ROOF, AND SEAT





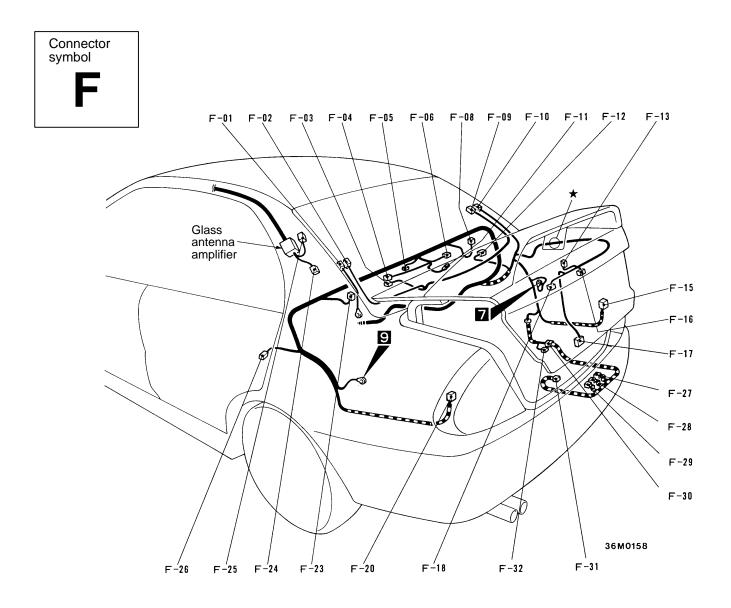
D-01 (2	20)	Receiver <vehicles entry="" keyless="" system="" with=""></vehicles>	C r
D-02 (2	2)	Seat belt switch	C
D-03 (2	,	Front door switch (RH)	D
D-04 (́	10)	Body harness and fuel harness combina- tion	C C
D-05 (6	6)	Body harness and rear door harness (RH) combination	C
D-06 (2	22)	Body harness and rear harness combina- tion	C
D-07 (6 D-08 (8	,	Sunroof switch Room lamp <vehicles sunroof="" with=""></vehicles>	C

D-09 (1) D-10 (18)	Map lamp Sunroof ECU
D-11 (2-GR)	Room lamp <vehicles sunroof="" without=""></vehicles>
D-12 (8)	Sunroof motor
D-13 (3-B)	Fuel gauge unit (sub)
D-14 (2-B)	Rear speed sensor (LH)
	<vehicles abs="" with=""></vehicles>
D-16 (6)	Body harness and rear door harness (LH)
	combination
D-17 (2)	Front door switch (LH)
D-18 (6)	Fuel gauge unit (main)



D-19 (2-B)	Rear speed sensor (RH) <vehicles abs="" with=""></vehicles>	D-25 (2)	Body harness and power seat harness combination and power seat switch
D-20 (3-B)	Acceleration sensor (longitudinal)	D-26	Slide motor
	<vehicles abs="" ayc="" or="" with=""></vehicles>	D-27 (2)	Body harness and rear harness combina-
D-21 (1-B)	Parking brake switch		tion <vehicles ayc="" with=""></vehicles>
D-22 (2-B)	High temperature sensor	D-31 (2)	Water spray switch
D-23	Reclining motor	D-32 (3-B)	Acceleration sensor (lateral)
D-24	Slide limit switch		<vehicles ayc="" with=""></vehicles>

#### LUGGAGE COMPARTMENT



- F-01 (1-B) Defogger (-) <vehicles without choke coil> F-02 (1-B) Defogger (-) <vehicles with choke coil> Choke coil F-03 (2) F-04 (3) Choke coil F-05 (2) Luggage compartment lamp F-06 (2) High mounted stop lamp (installed on rear shelf) F-08 (2-B) Rear speaker (RH) F-09 (1-B) Defogger (+) <vehicles with choke coil> F-10 (1-B) Defogger (+) <vehicles without choke coil> Rear wiper motor F-11 (3)
- F-12 (1-B) Rear door switch (RH)
- F-13 (2) High mounted stop lamp (installed on rear spoiler)
- F-15 (6) Rear combination lamp (RH)
- F-16 (2-GR) Licence plate lamp (RH)

F-17 (1-B)	Luggage compartment lamp switch
F-18 (2-GR)	Licence plate lamp (LH)
F-20 (6)	Rear combination lamp (LH)
F-23 (2-B)	Rear speaker (LH)
F-24 (1)	Glass antenna <vehicles diversi-<="" td="" without=""></vehicles>
	ty glass antenna>
F-25 (1)	Glass antenna
F-26 (1-B)	Rear door switch (LH)
F-27 (3-B)	Proportioning valve <vehicles ayc="" with=""></vehicles>
F-28 (2-B)	Direction valve (LH) <vehicles ayc="" with=""></vehicles>
F-29 (2-B)	Direction valve (RH) <vehicles ayc="" with=""></vehicles>
F-30 (8-B)	Rear harness and AYC harness combina-
. ,	tion
F-31 (2-B)	Accumulator pressure switch
. ,	<vehicles ayc="" with=""></vehicles>
()	

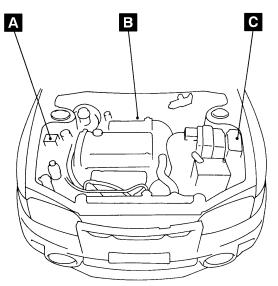
F-32 (2-B) AYC motor

#### NOTES

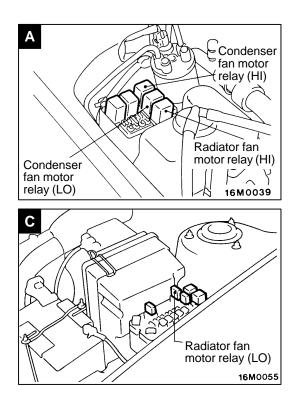
# SINGLE PART INSTALLATION POSITION

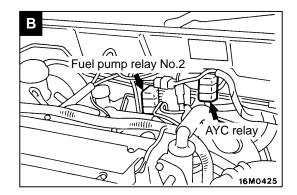
# RELAY

Name	Symbol	Name	Symbol
AYC relay	В	Fuel pump relay No.2	В
Condenser fan motor relay (HI)	A	Radiator fan motor relay (HI)	А
Condenser fan motor relay (LO)	A	Radiator fan motor relay (LO)	С

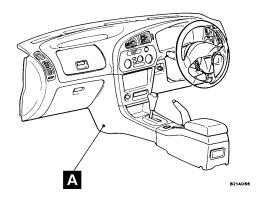


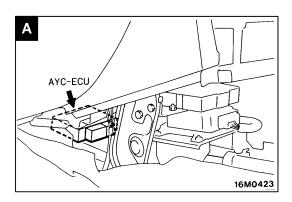
16M0429





Name	Symbol
AYC-ECU	А

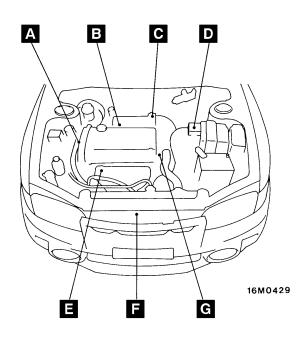


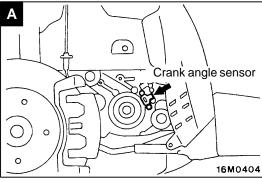


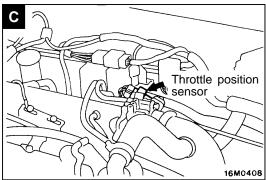
#### **B-18**

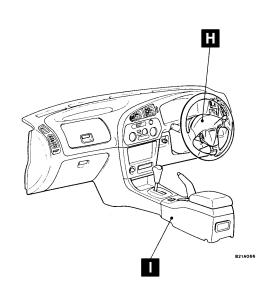
### SENSOR

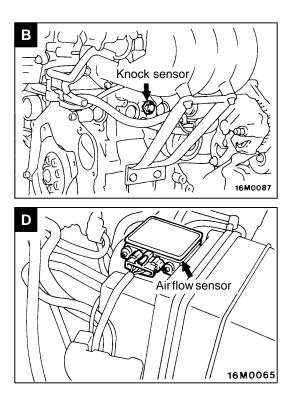
Name	Symbol	Name	Symbol
Acceleration sensor (lateral) <vehicles ayc="" with=""></vehicles>	1	Knock sensor	В
Acceleration sensor (longitudinal) <vehicles abs="" and="" ayc="" with=""></vehicles>	1	Outside air temperature sensor <vehicles air="" automatic="" conditioner="" fully="" with=""></vehicles>	F
Air flow sensor	D	O <sub>2</sub> sensor	E
Camshaft position sensor	G	Steering angle sensor <vehicles ayc="" with=""></vehicles>	Н
Crank angle sensor	A	Throttle position sensor	С
Engine coolant temperature sensor	G		

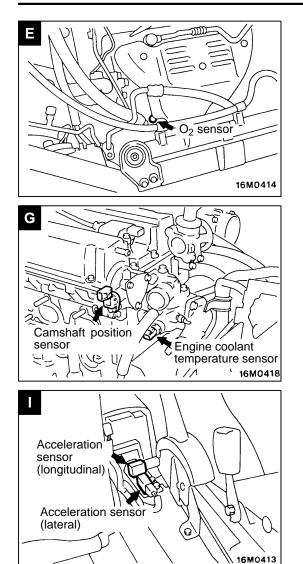


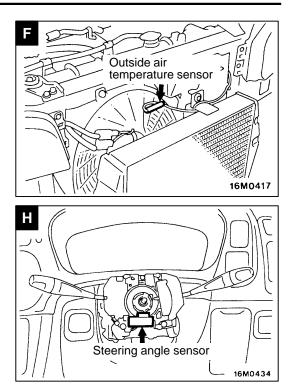






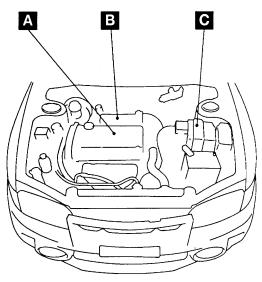


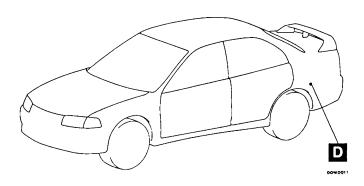




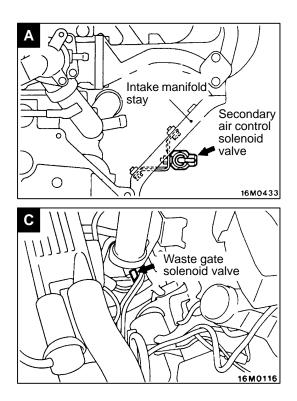
#### SOLENOID VALVE

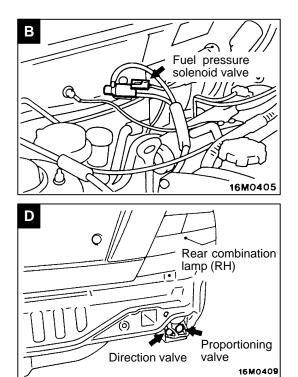
Name	Symbol	Name	Symbol
Direction valve <vehicles ayc="" with=""></vehicles>	D	Secondary air control solenoid valve	А
Fuel pressure solenoid valve	В	Waste gate solenoid valve	С
Proportioning valve <vehicles ayc="" with=""></vehicles>	D		





16M0429

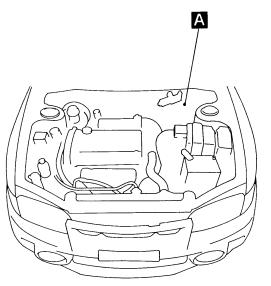




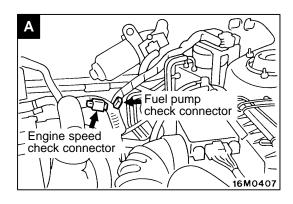
Check Connector and Spare Connector

# CHECK CONNECTOR AND SPARE CONNECTOR

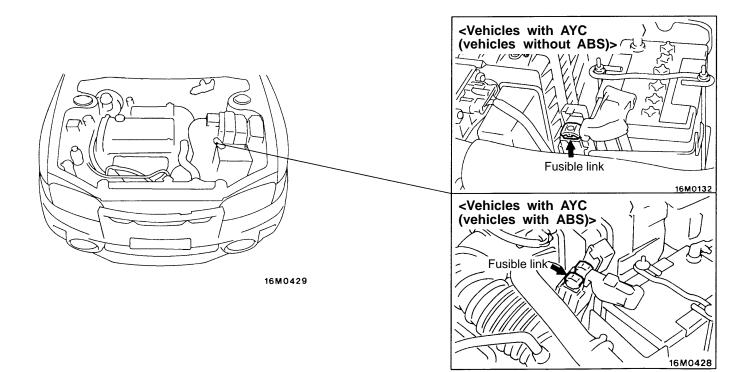
Name	Symbol	Name	Symbol
Engine speed check connector	А	Fuel pump check connector	А



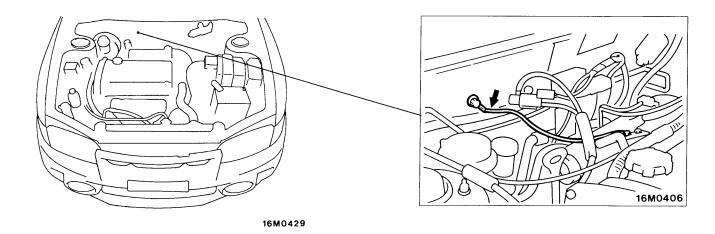
16M0429



## FUSIBLE LINK AND FUSE

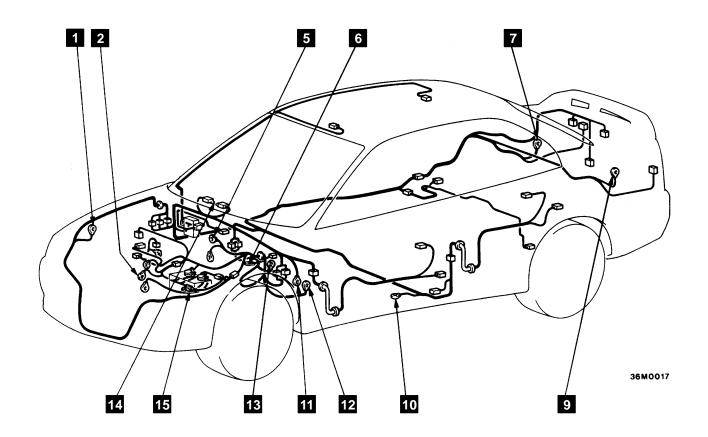


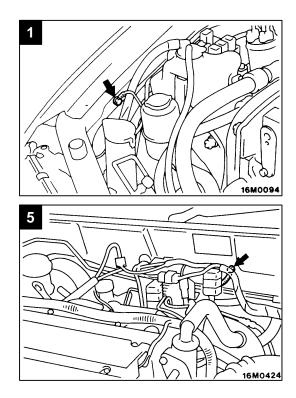
#### **GROUND CABLE**

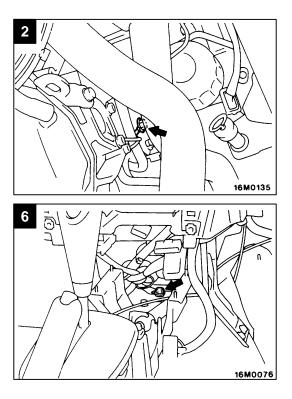


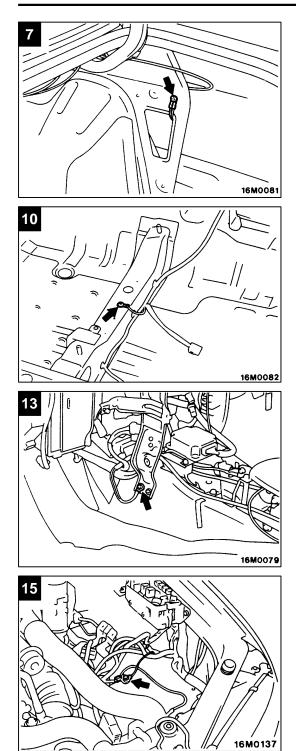
**B-22** 

# GROUND











# **CIRCUIT DIAGRAM**

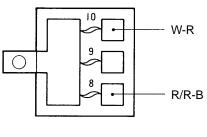
### **CENTRALIZED JUNCTION**

#### **FUSIBLE LINK**

No.	Circuit protected	Туре	Housing color	Rated capacity (A)
10	Active yaw control system	Screw-in type	Yellow	60

#### Fuse box directly attached on battery

#### <Vehicles with AYC>

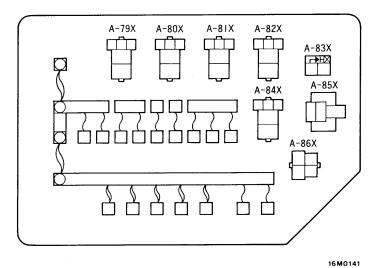


16M0144

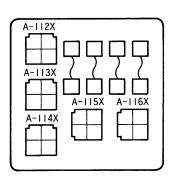
#### **CENTRALIZED RELAY**

Connector No.	Name	Connector No.	Name
A-82X	Radiator fan motor relay (LO)	A-113X	Condenser fan motor relay (LO)
A-112X	Radiator fan motor relay (HI)	A-114X	Condenser fan motor relay (HI)

#### Relay box in engine compartment

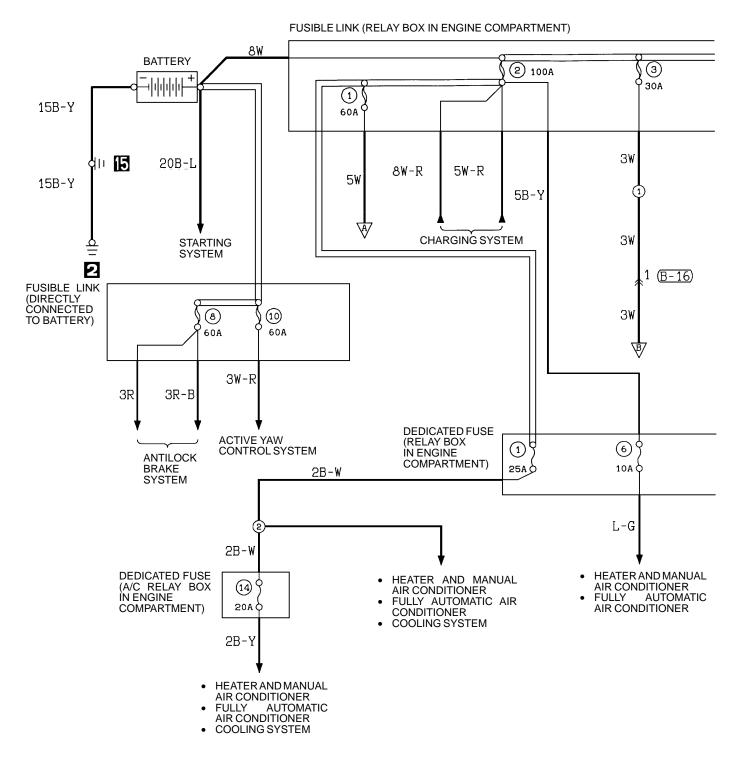


#### (A/C relay box)

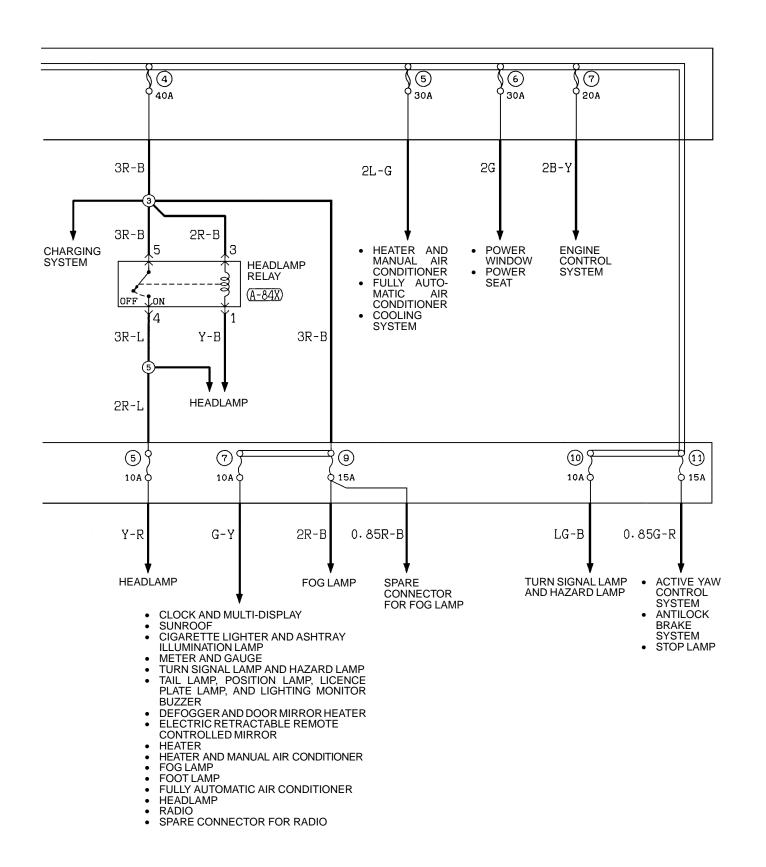


16M0142

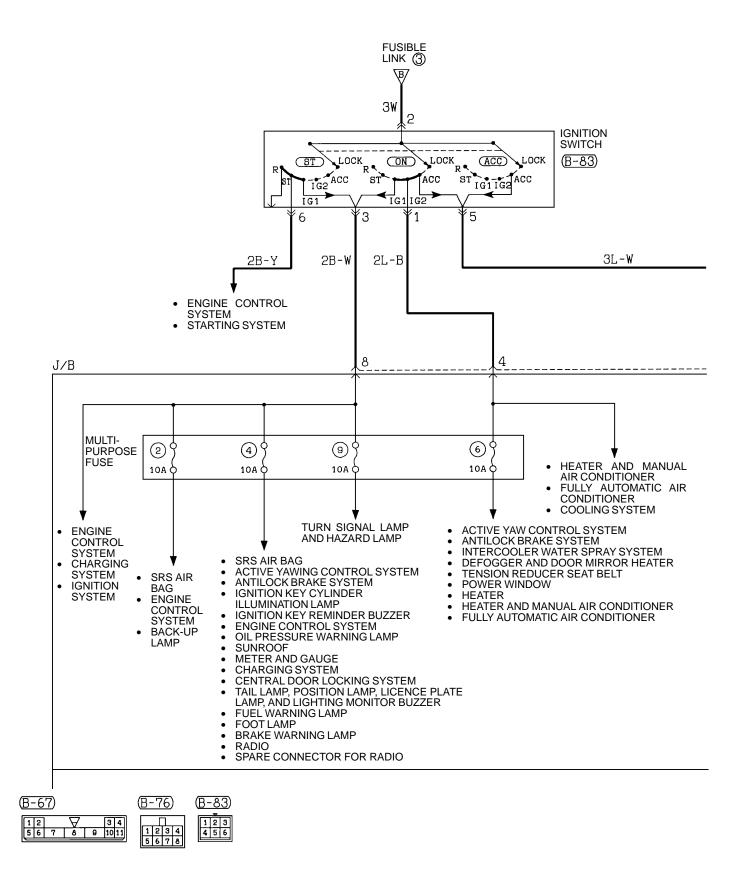
## POWER DISTRIBUTION SYSTEM

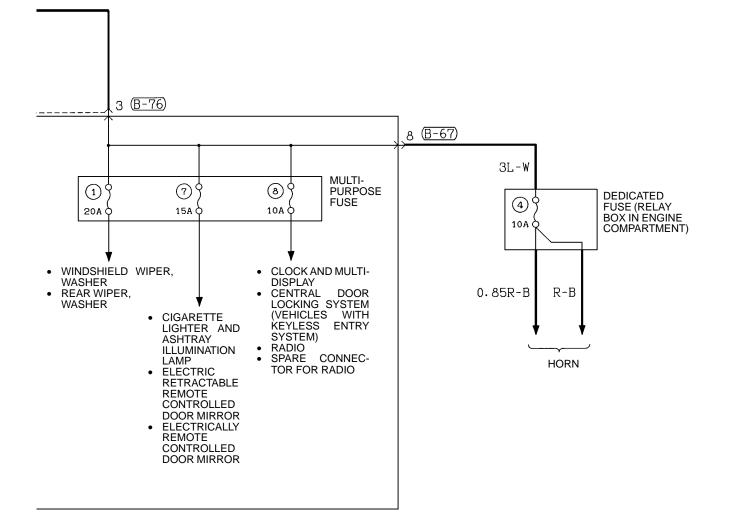




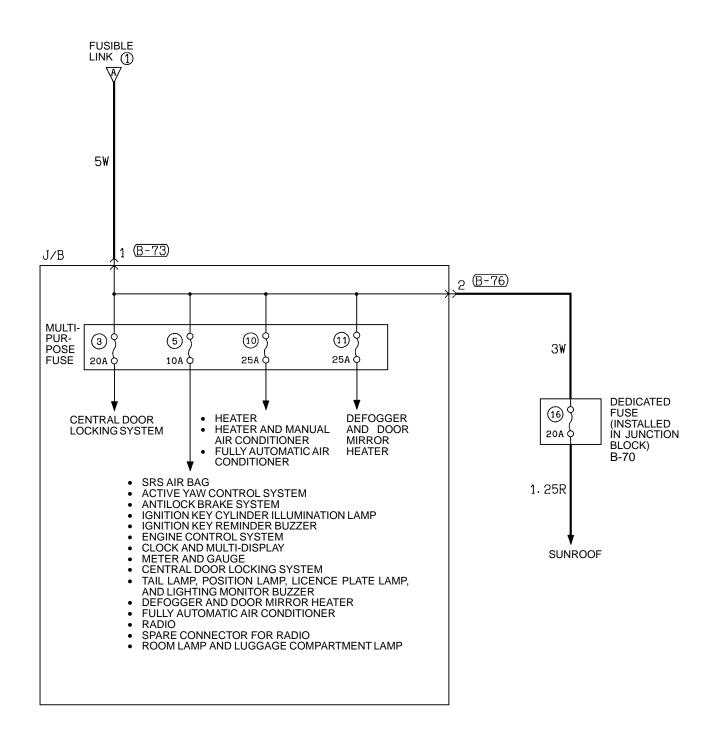


#### **POWER DISTRIBUTION SYSTEM (CONTINUED)**



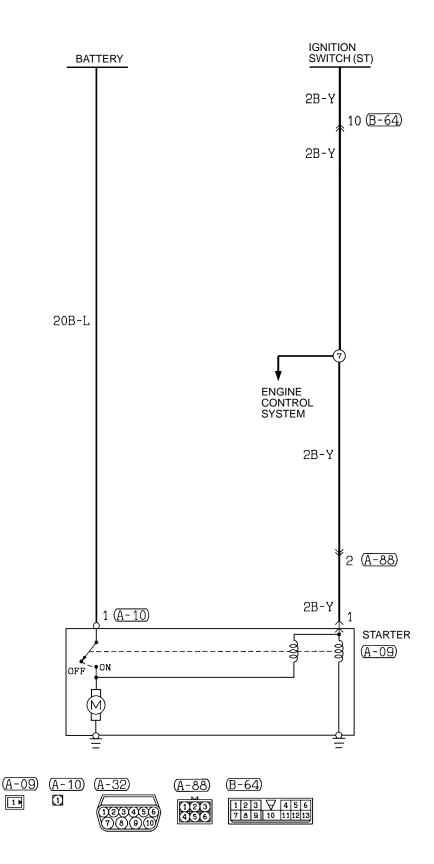


#### **POWER DISTRIBUTION SYSTEM (CONTINUED)**

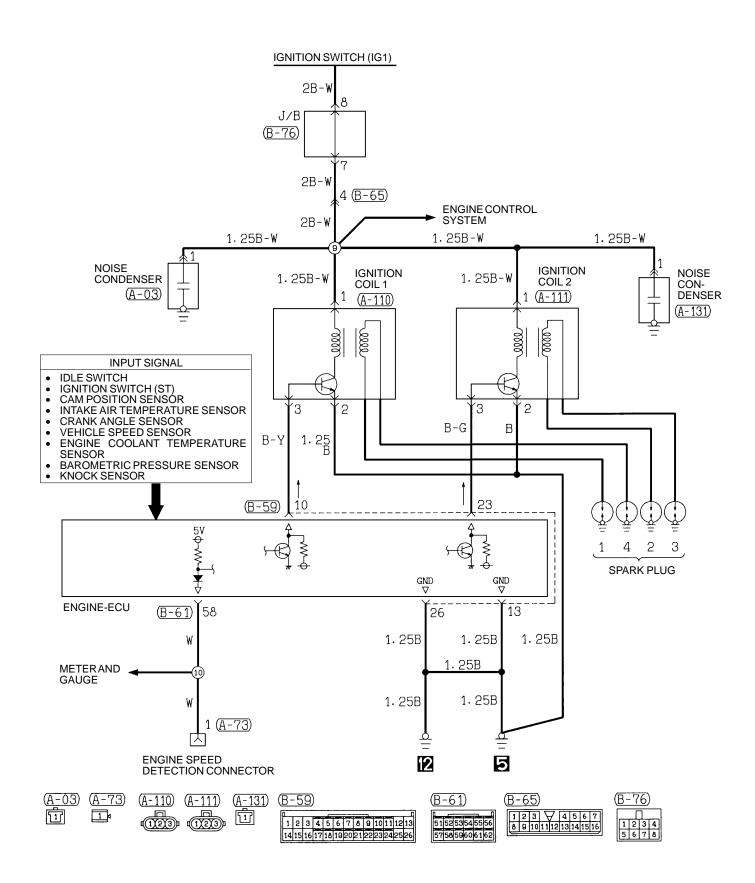




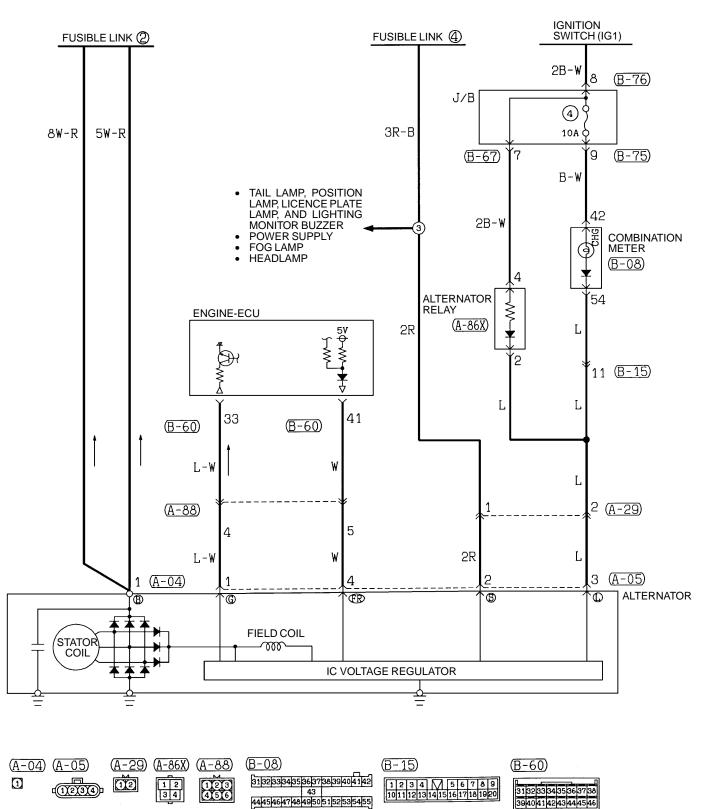
# STARTING SYSTEM

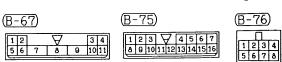


#### **IGNITION SYSTEM**

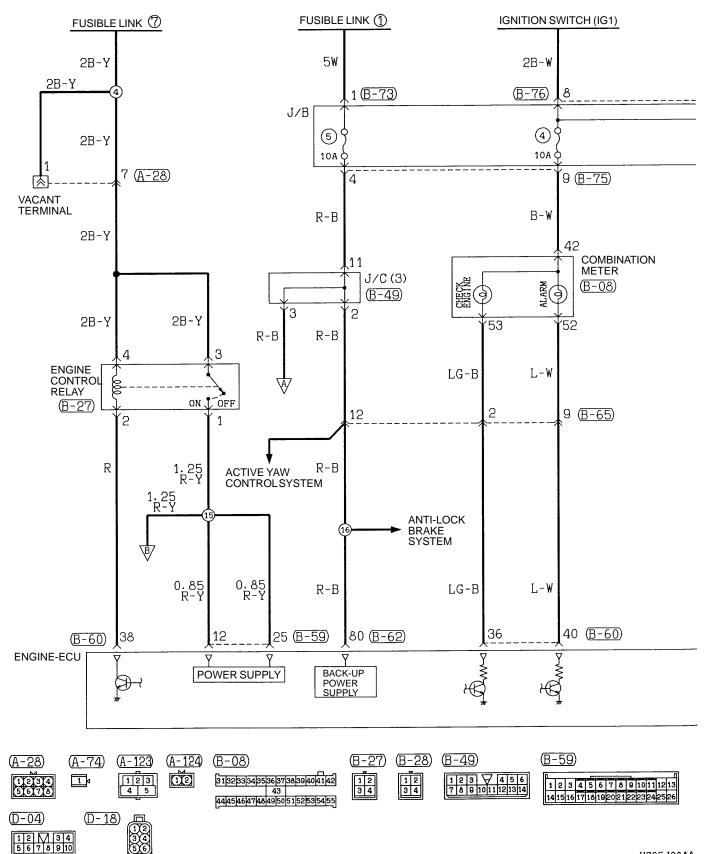


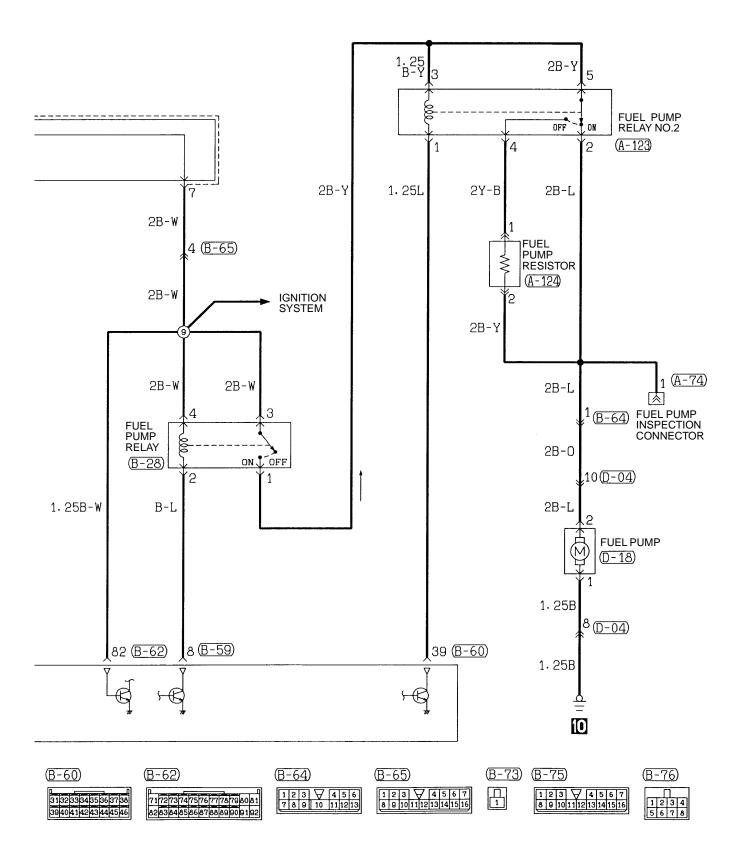
#### **CHARGING SYSTEM**



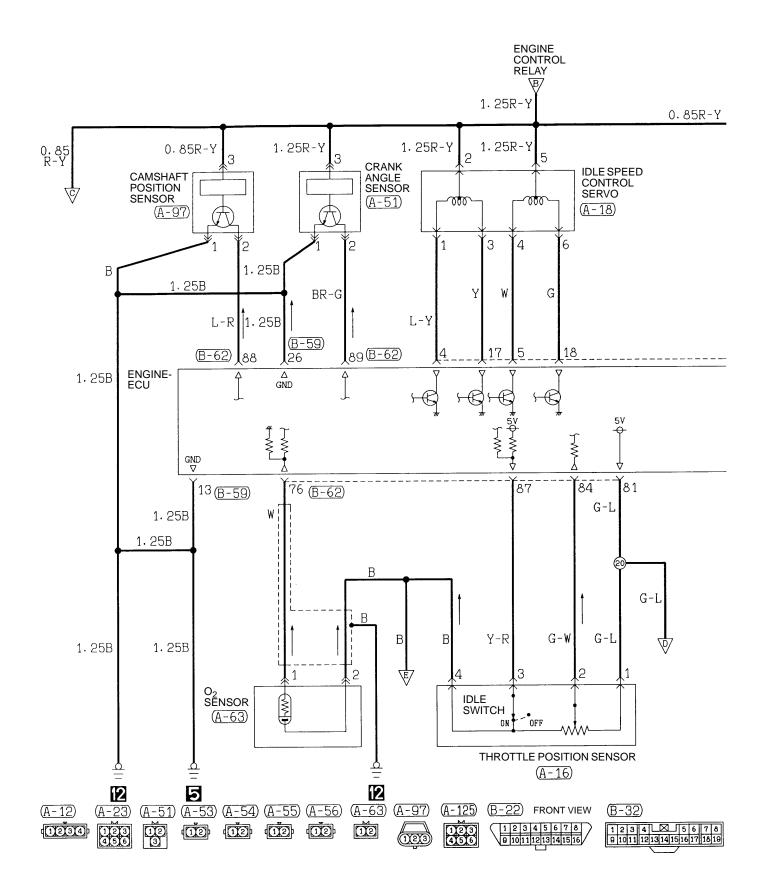


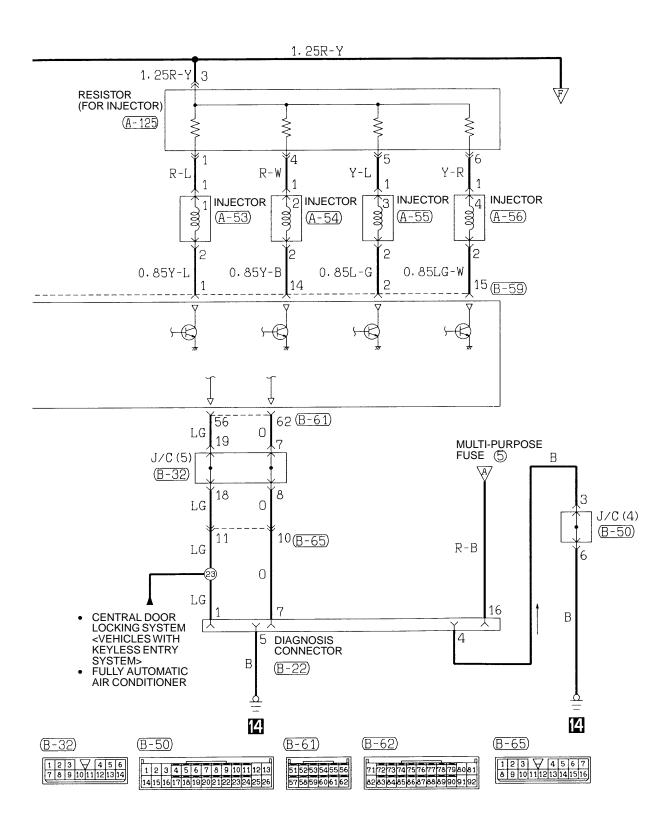
## ENGINE CONTROL SYSTEM



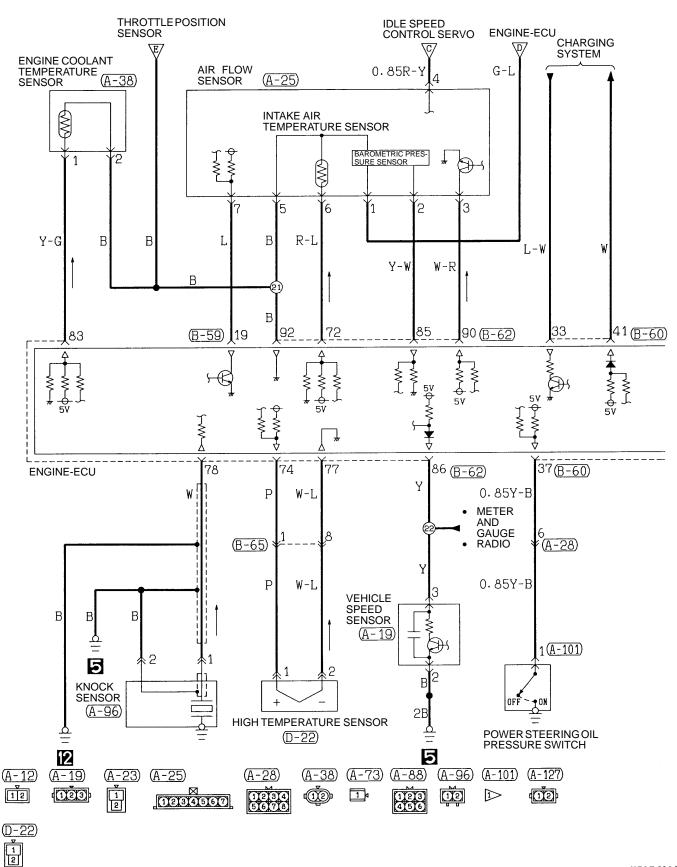


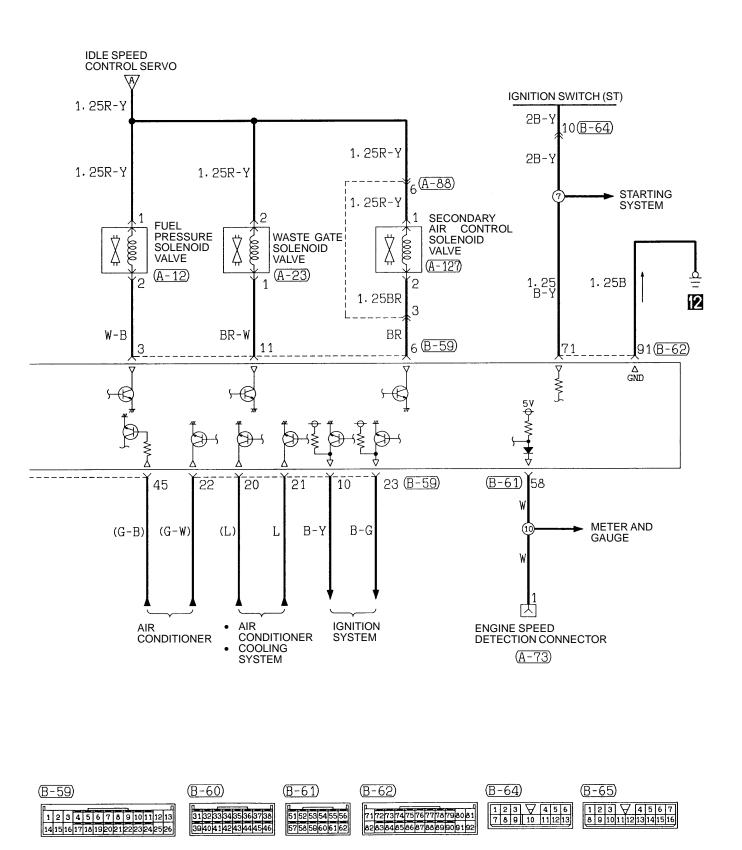
#### **ENGINE CONTROL SYSTEM (CONTINUED)**



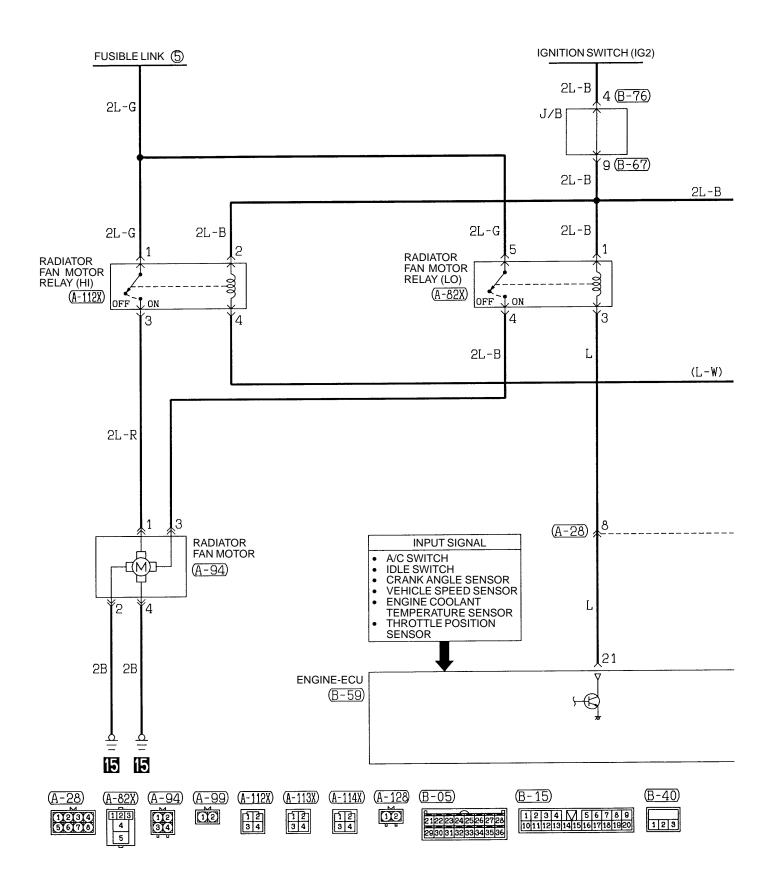


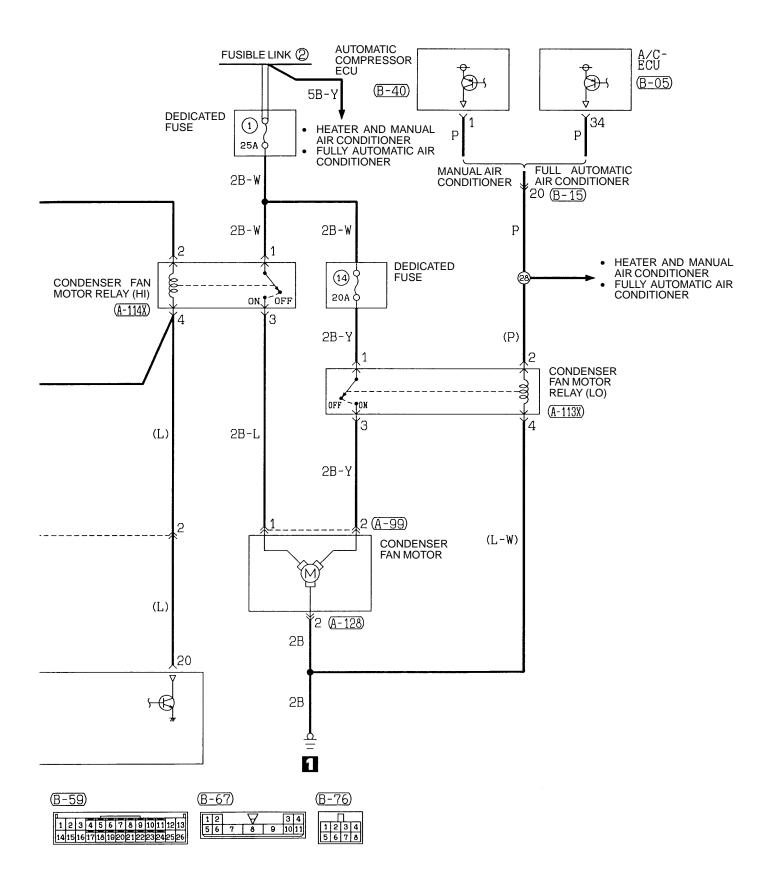
### **ENGINE CONTROL SYSTEM (CONTINUED)**



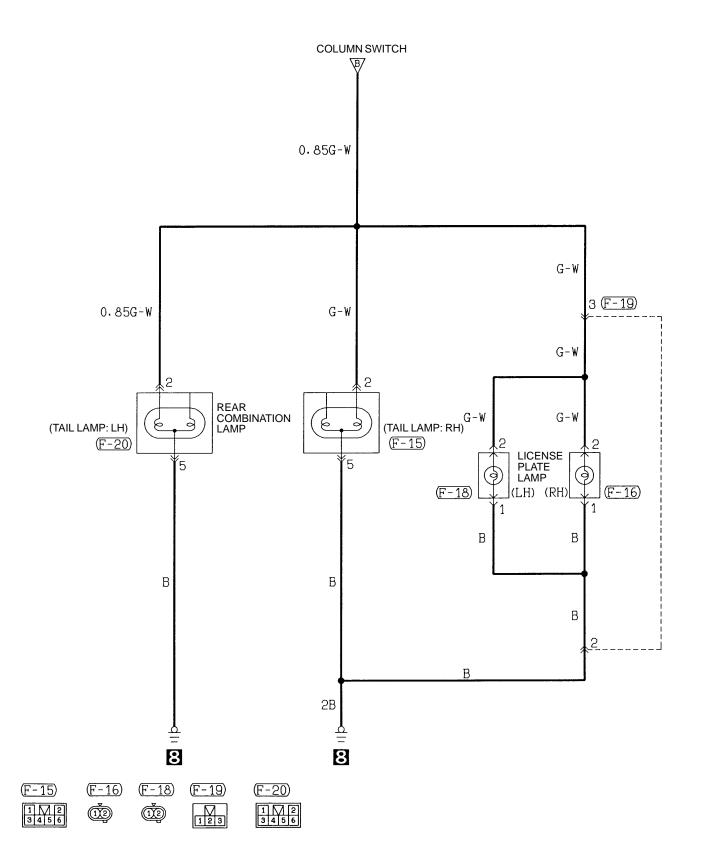


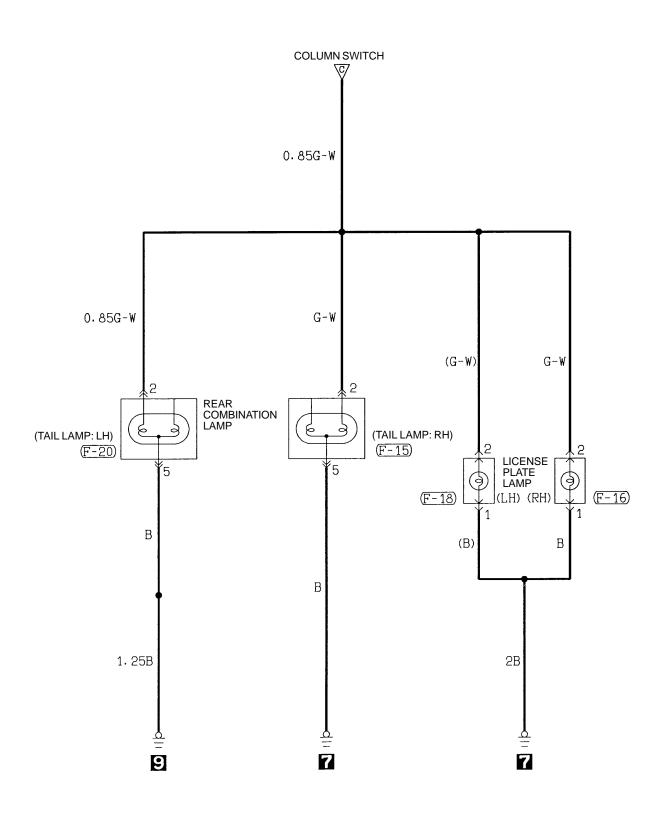
## COOLING SYSTEM



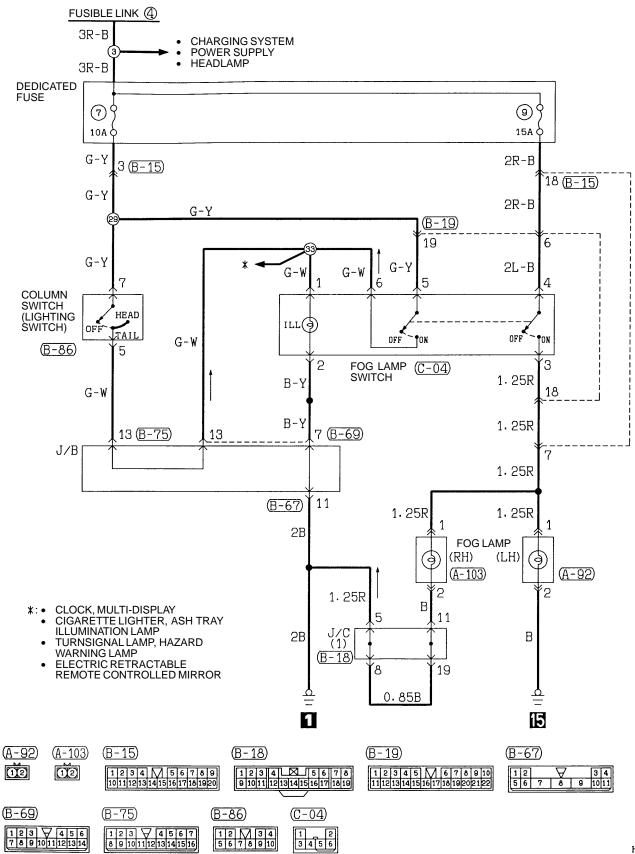


# TAIL LAMP, POSITION LAMP, LICENSE PLATE LAMP AND LIGHTING MONITOR ALARM BUZZER

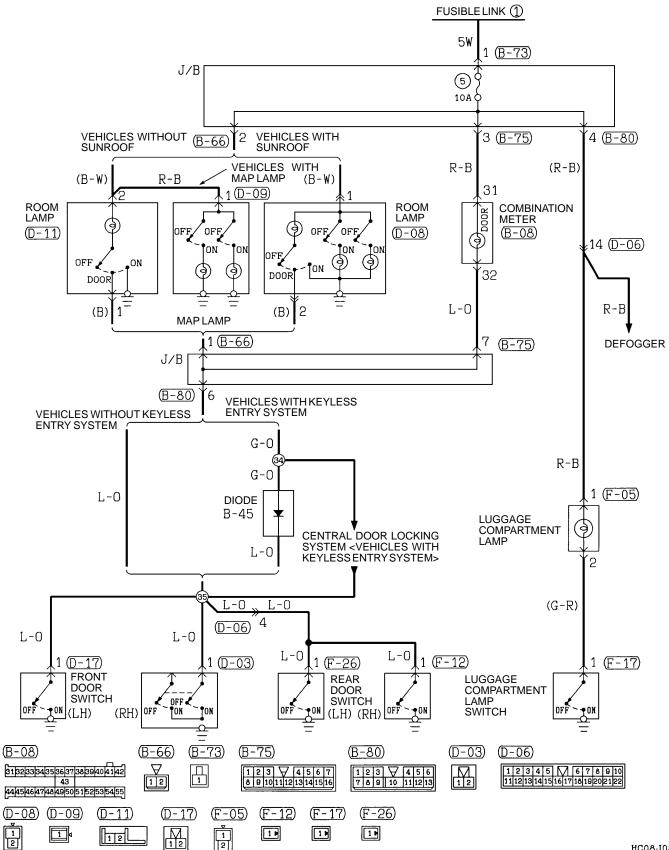




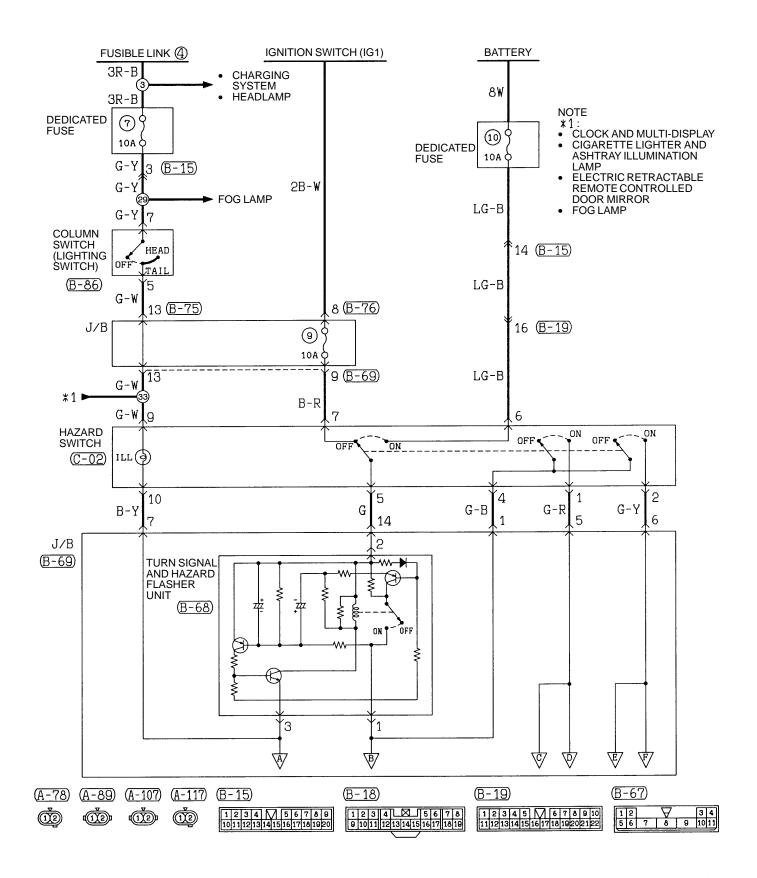
## FOG LAMP

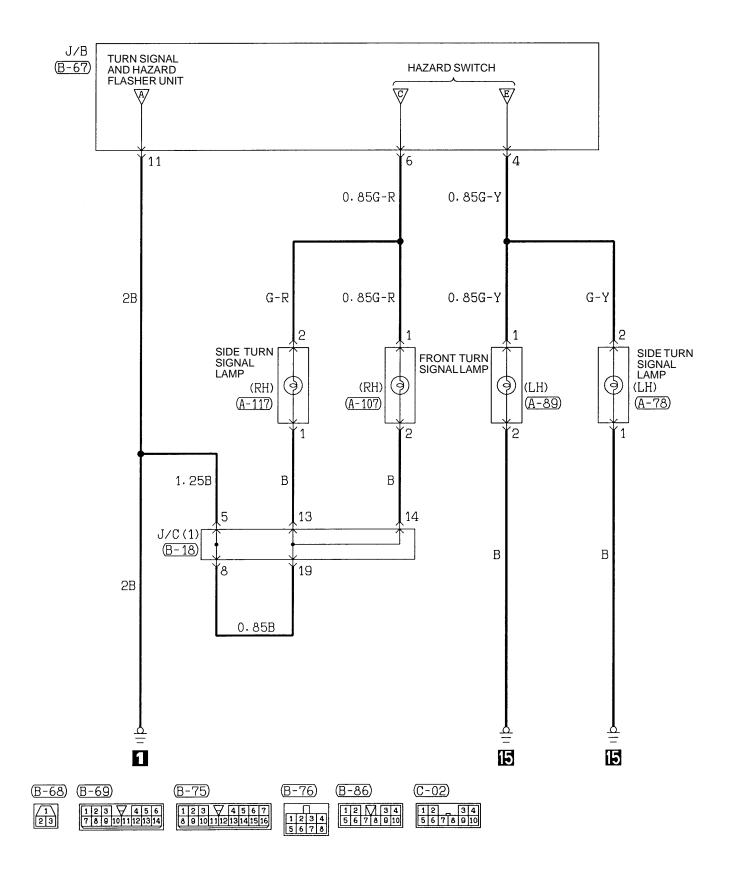


## ROOM LAMP AND LUGGAGE COMPARTMENT LAMP

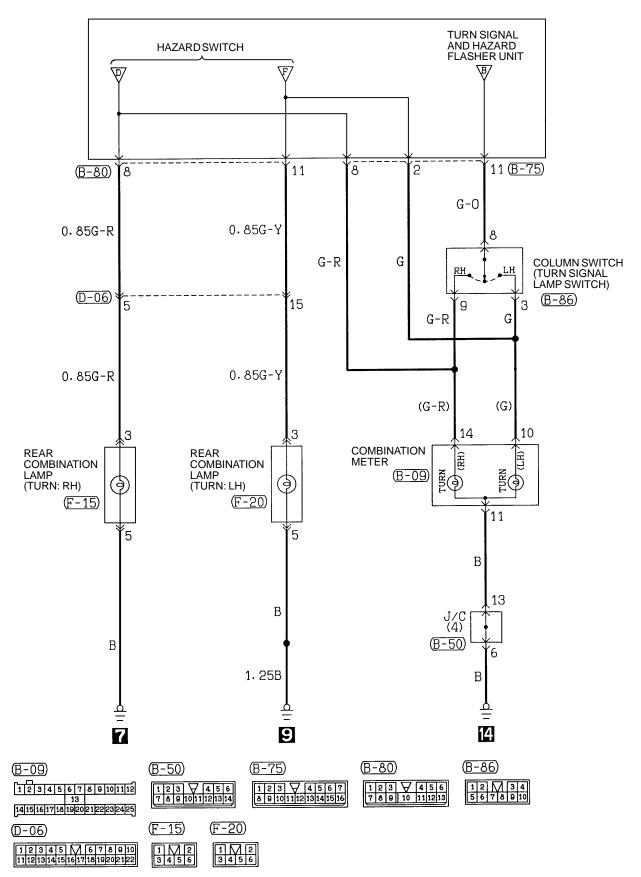


## TURN-SIGNAL LAMP AND HAZARD LAMP

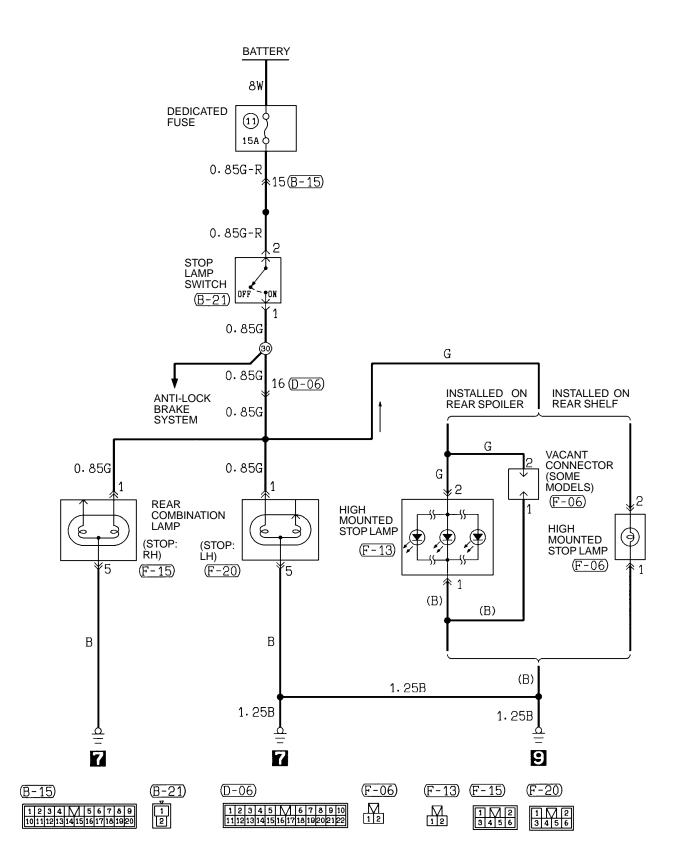




TURN-SIGNAL LAMP AND HAZARD LAMP (CONTINUED)

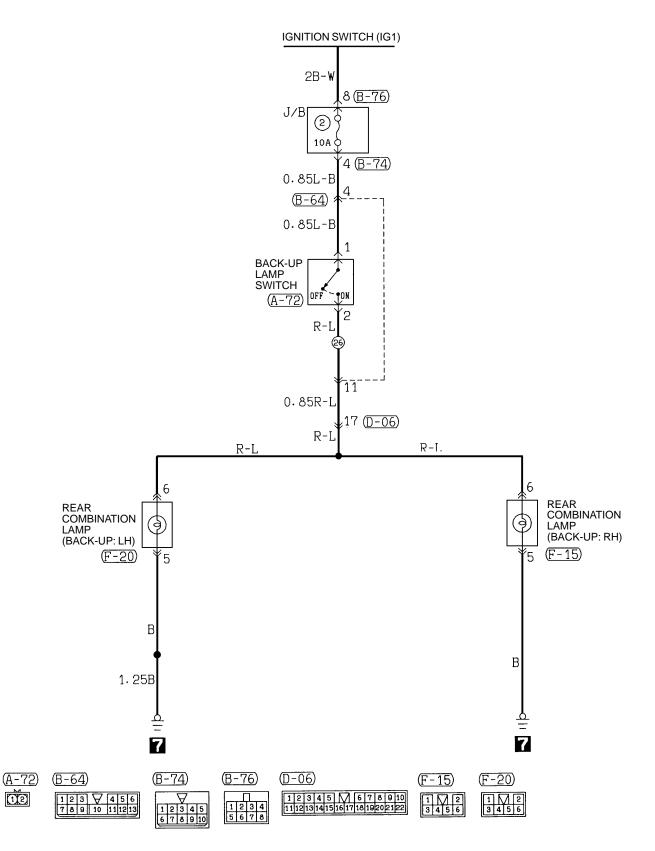


## STOP LAMP



HC09J01AA

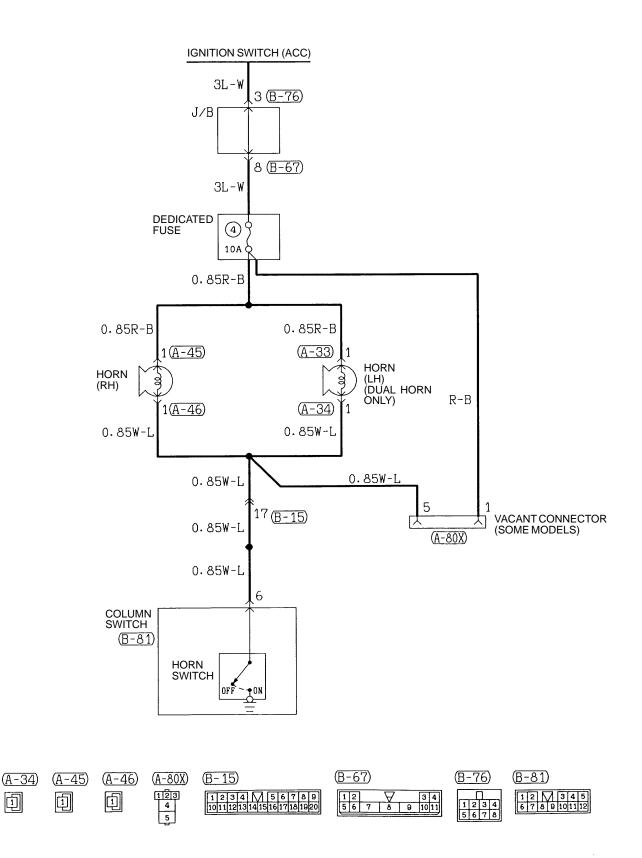
## **BACK-UP LAMP**



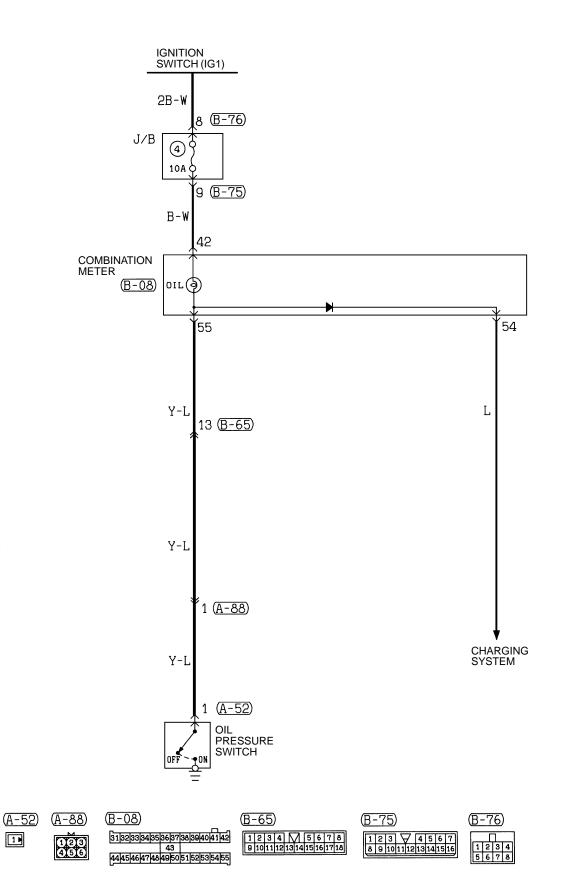
## HORN <VEHICLES WITHOUT SRS AIR BAG>

(A-33)

Ð

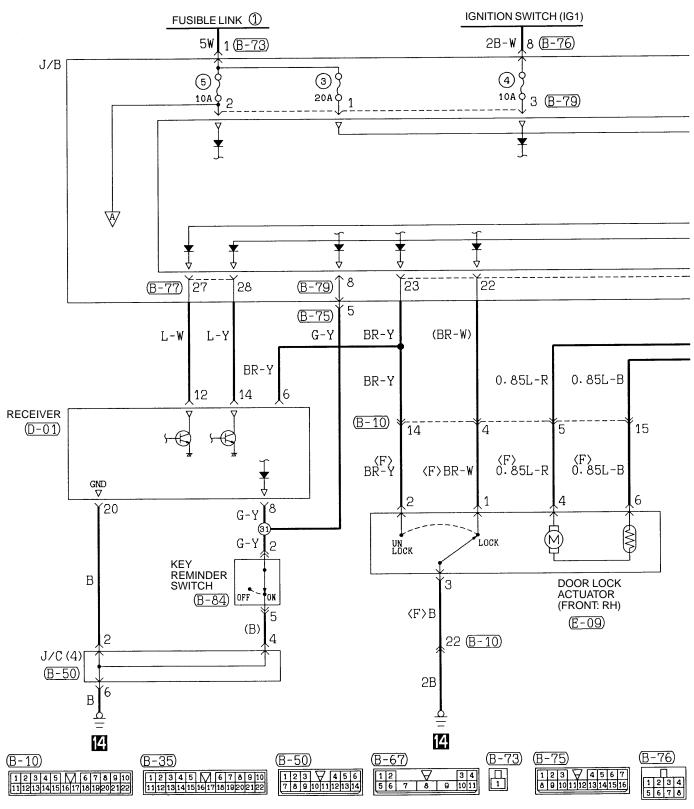


## **OIL PRESSURE WARNING LAMP**

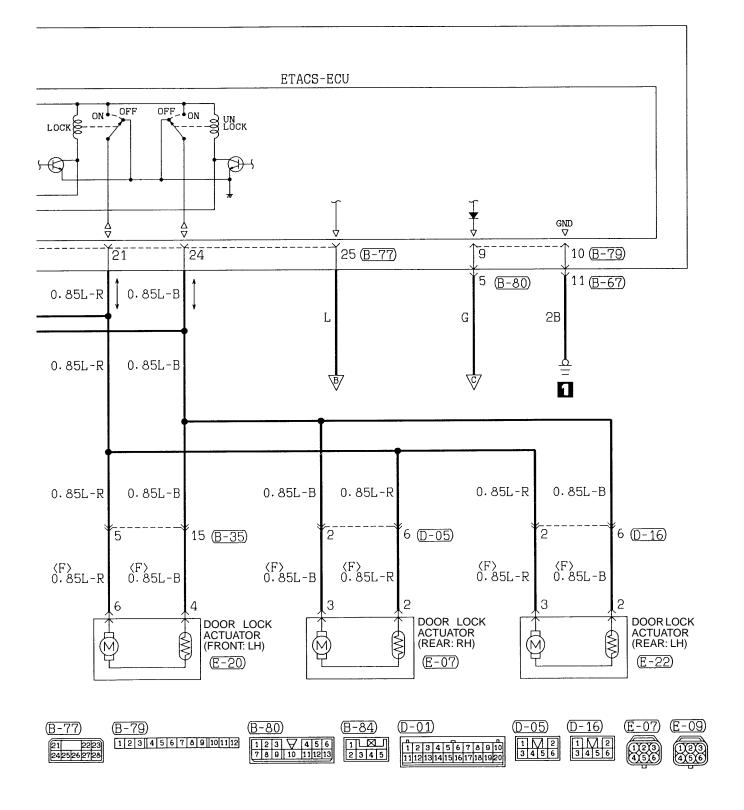


### NOTES

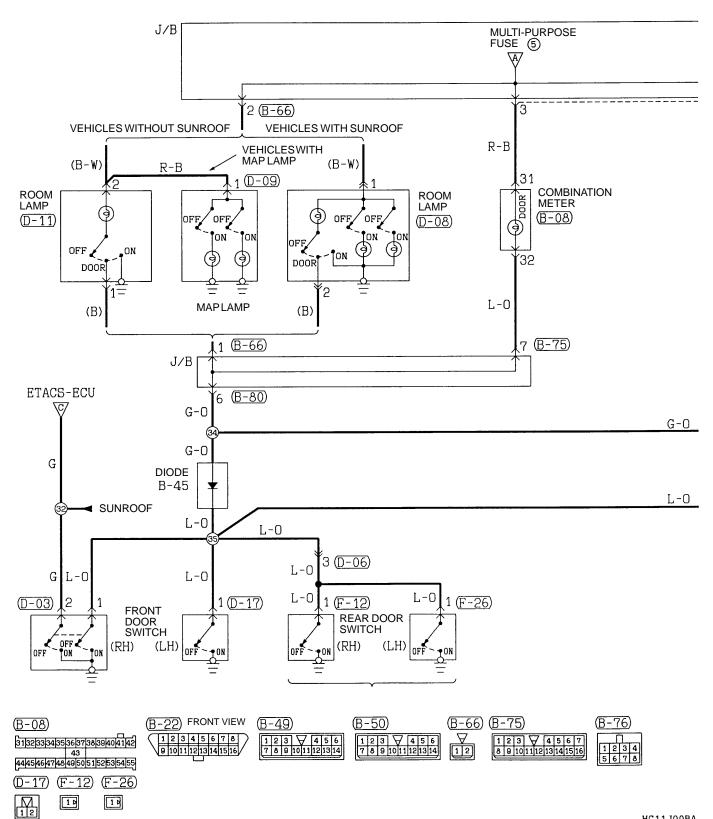
## CENTRAL DOOR LOCKING SYSTEM <VEHICLES WITH KEYLESS ENTRY SYSTEM>

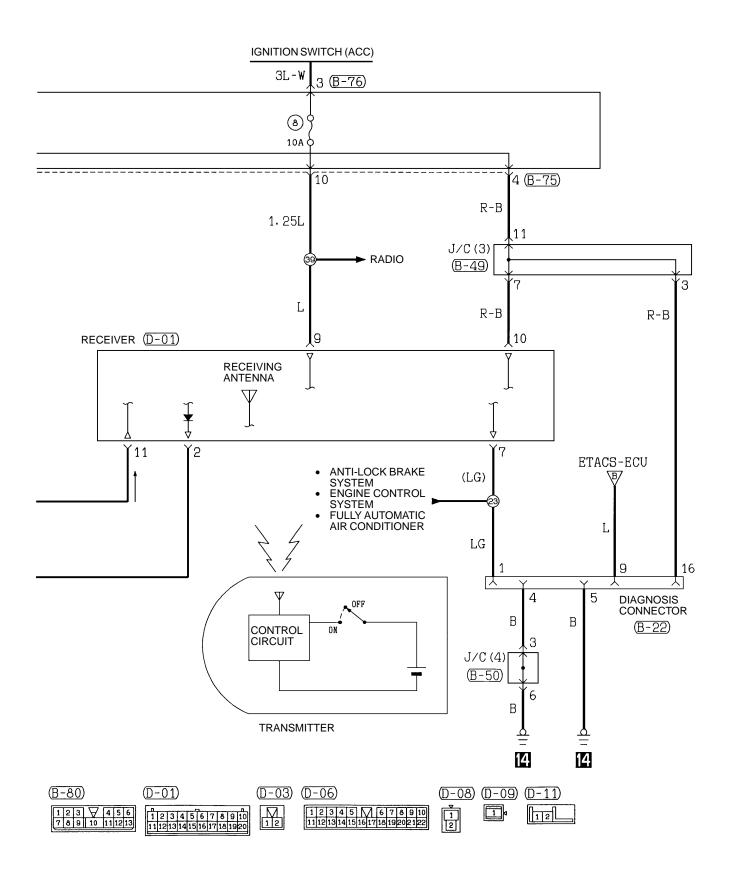




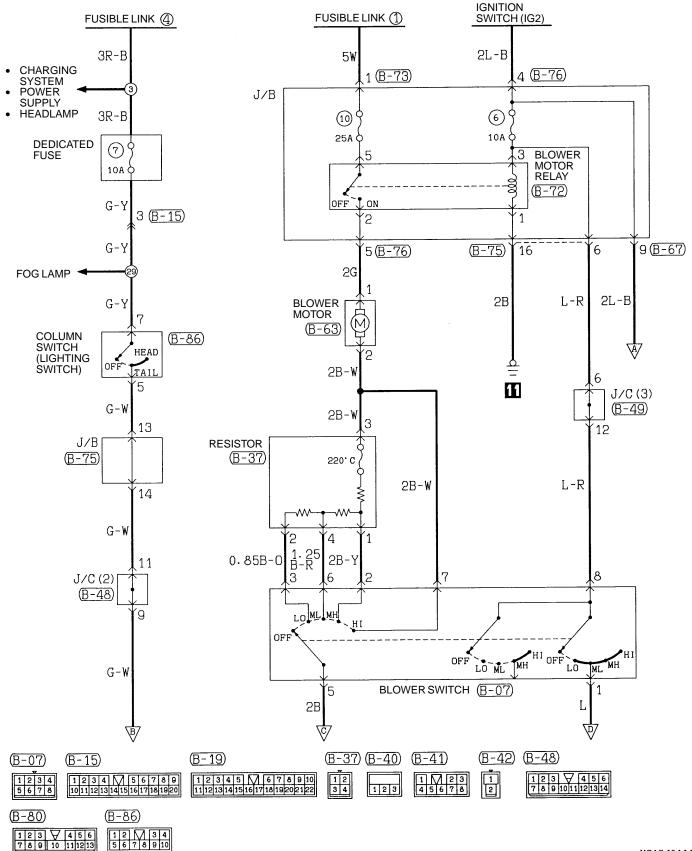


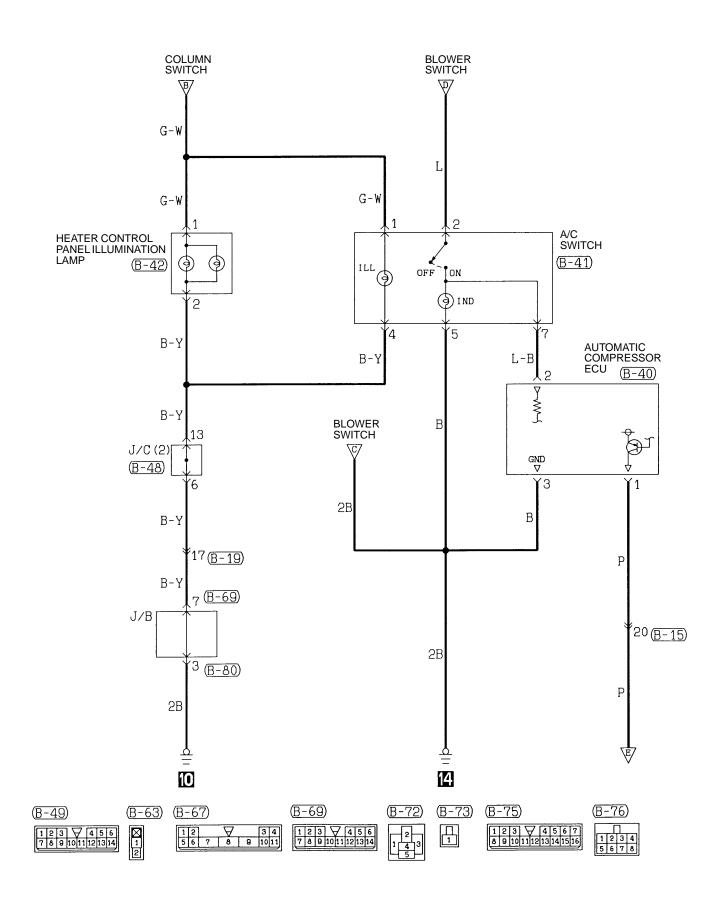
## CENTRAL DOOR LOCKING SYSTEM <VEHICLES WITH KEYLESS ENTRY SYSTEM> (CONTINUED)



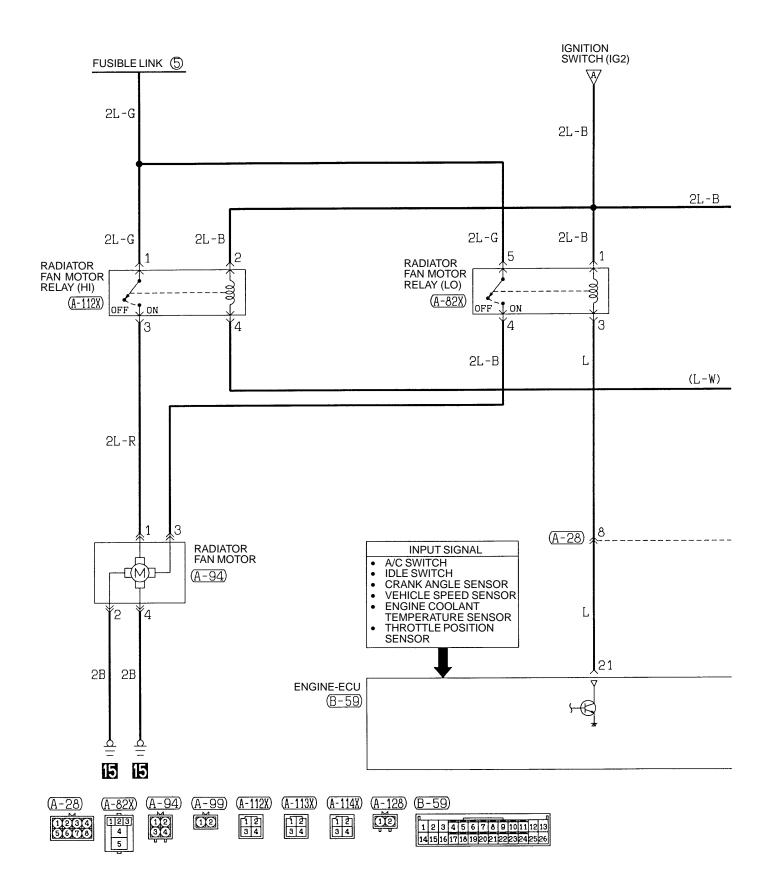


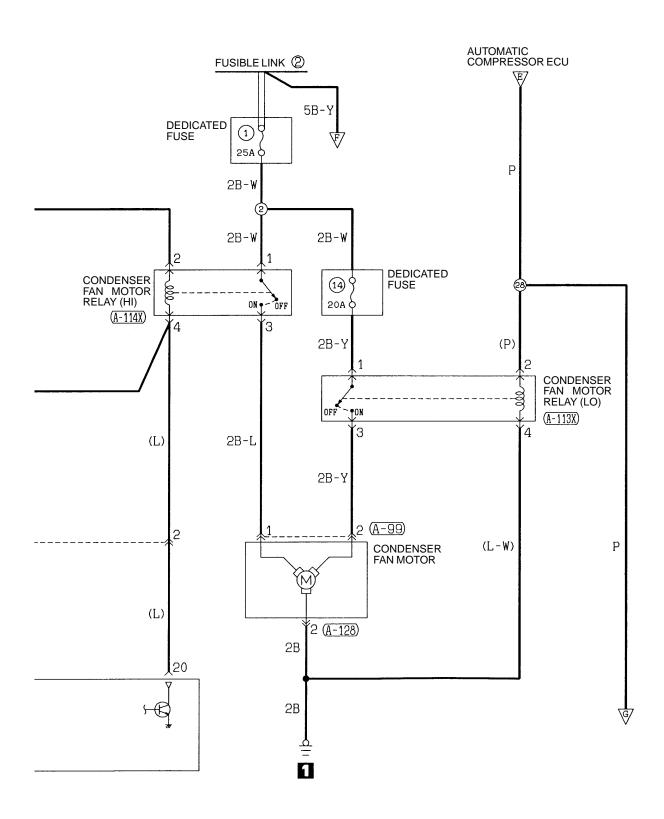
## HEATER AND MANUAL AIR CONDITIONER



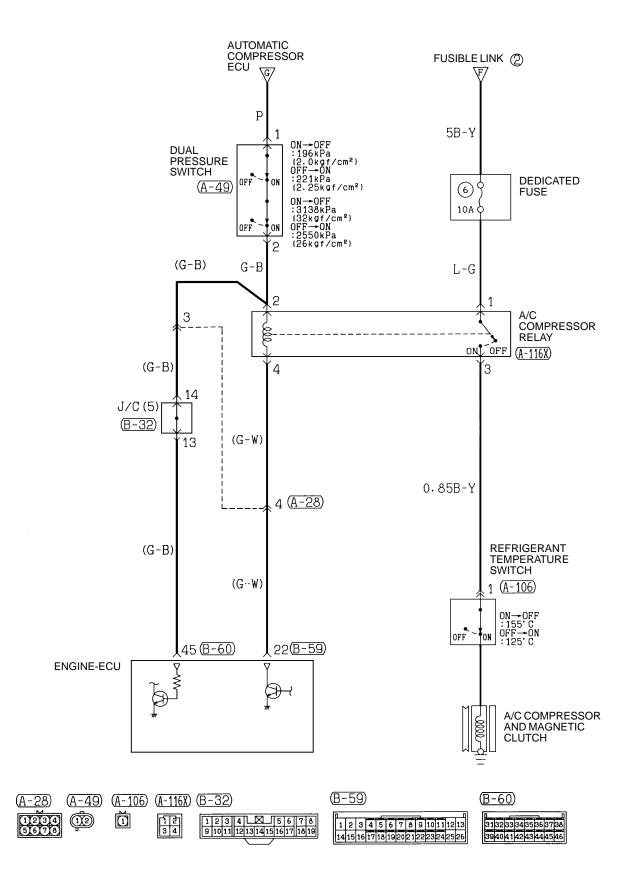


### HEATER AND MANUAL AIR CONDITIONER (CONTINUED)



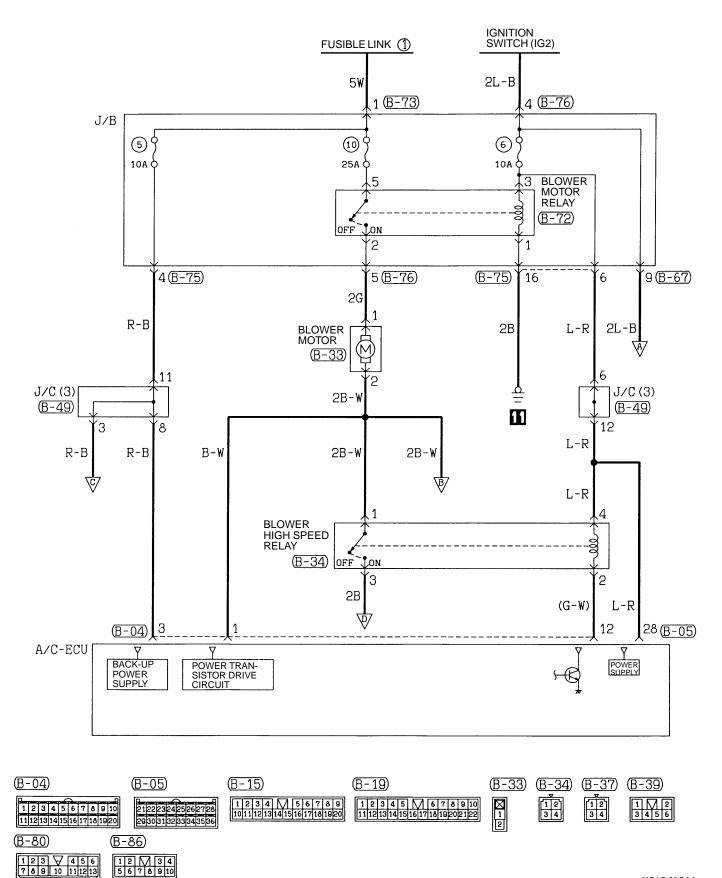


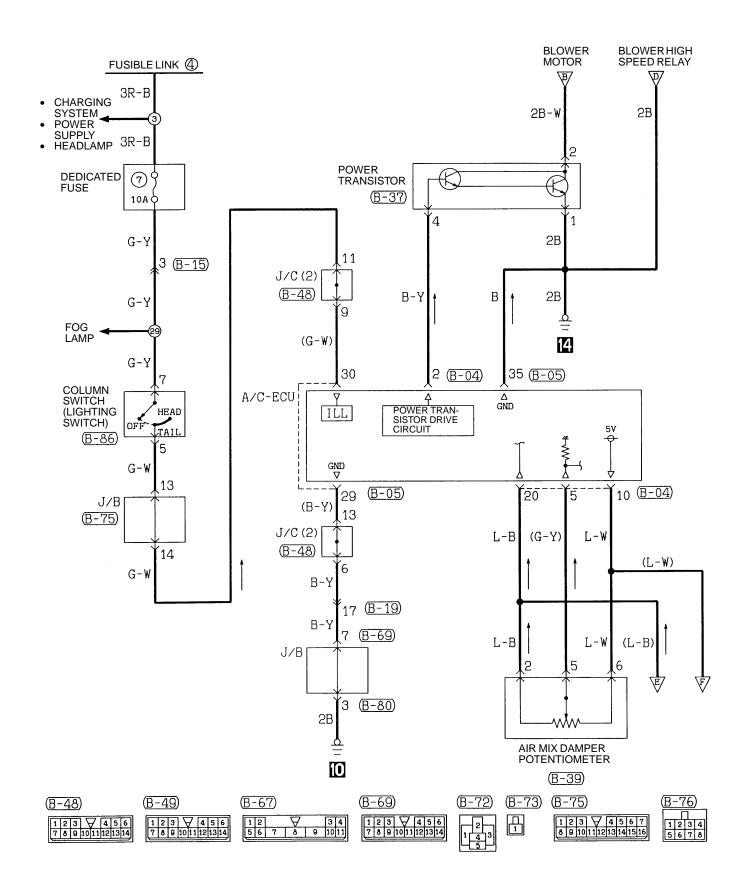
### HEATER AND MANUAL AIR CONDITIONER (CONTINUED)



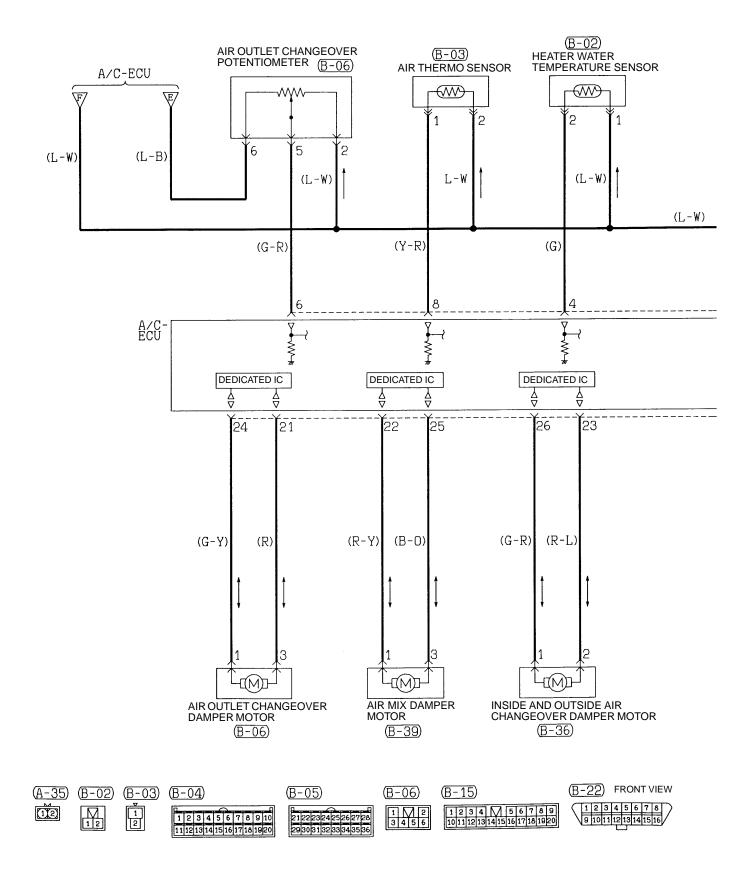
### NOTES

## FULLY AUTOMATIC AIR CONDITIONER

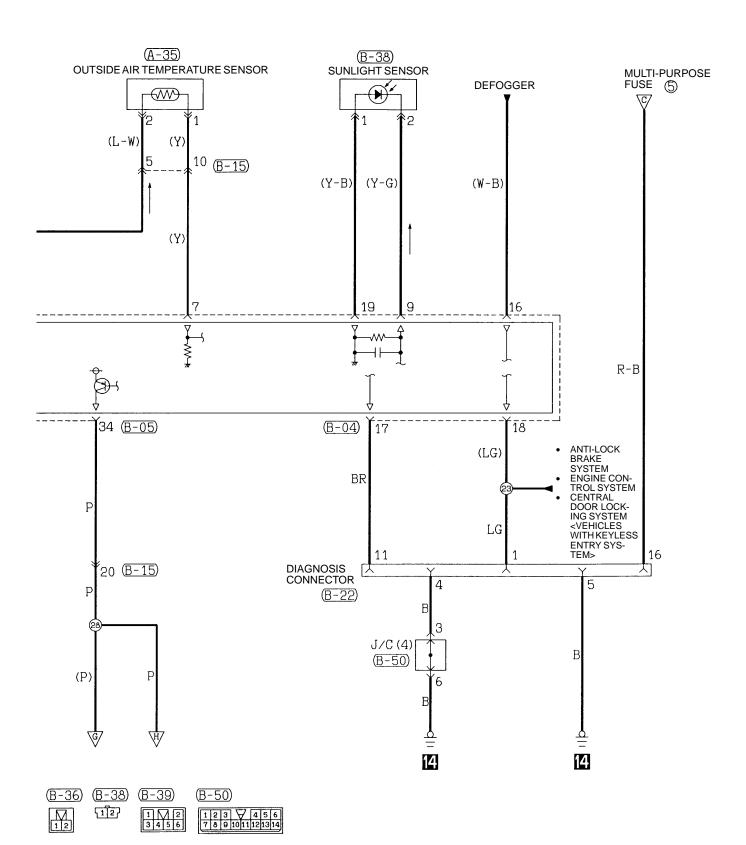




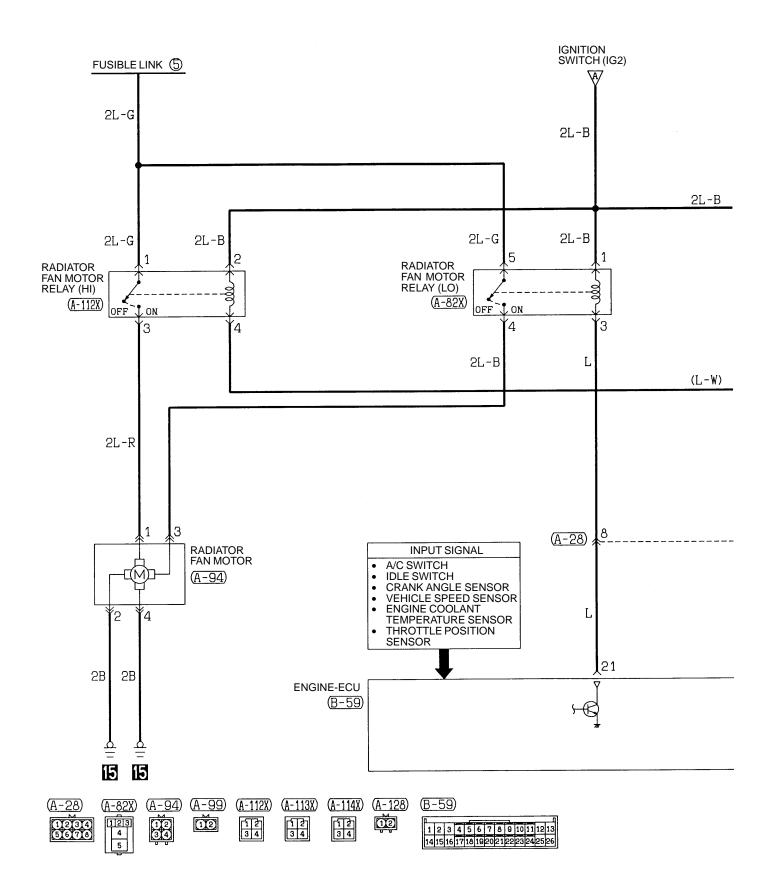
### FULLY AUTOMATIC AIR CONDITIONER (CONTINUED)

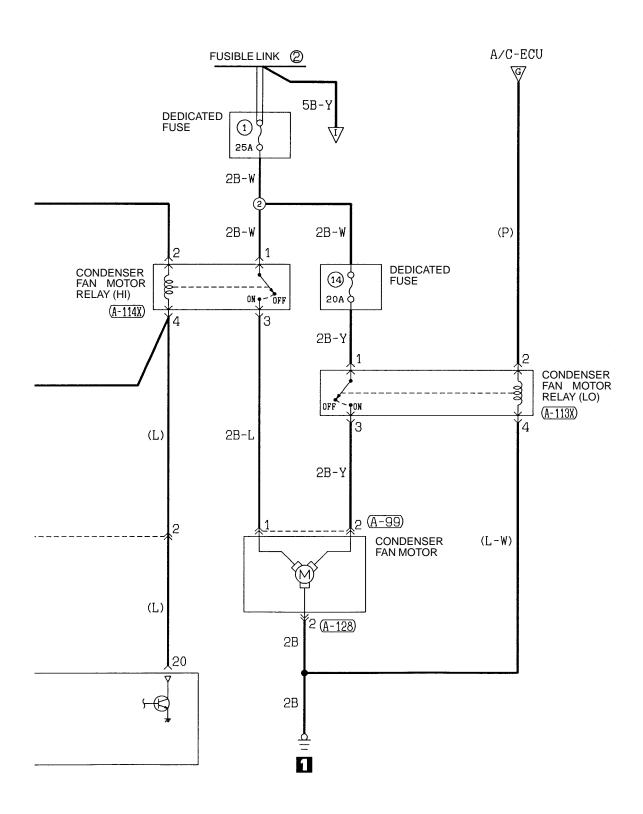




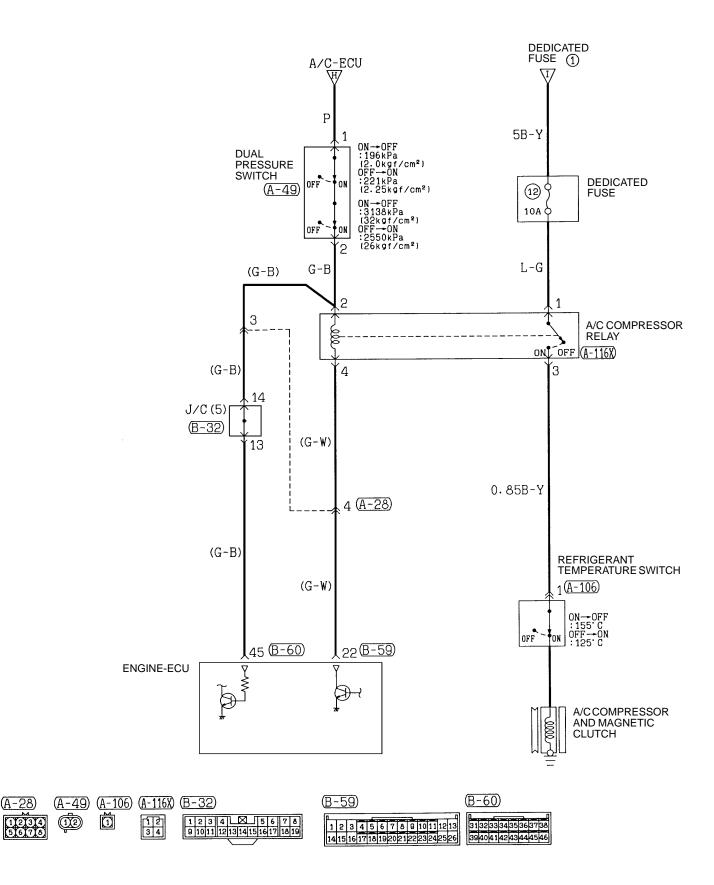


### FULLY AUTOMATIC AIR CONDITIONER (CONTINUED)



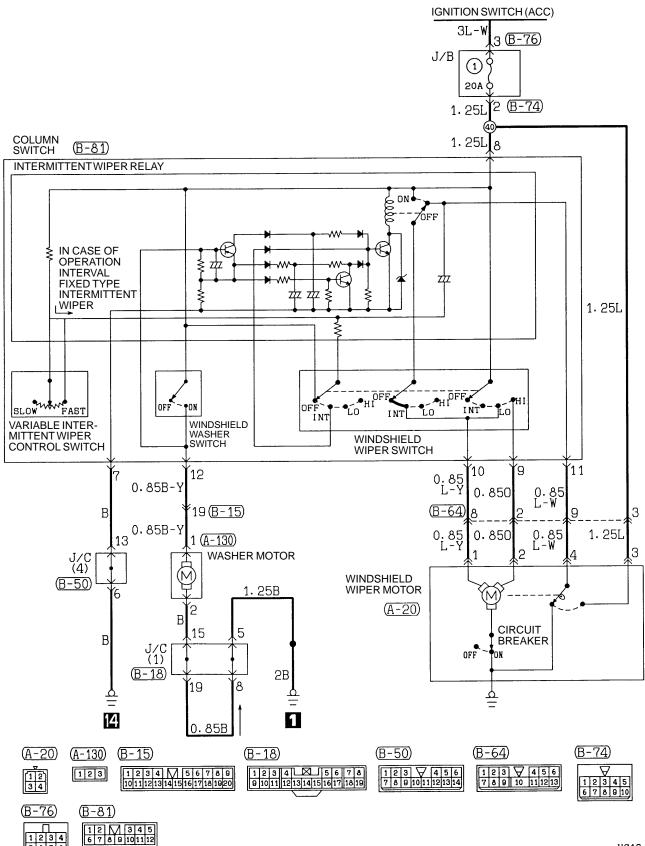


### FULLY AUTOMATIC AIR CONDITIONER (CONTINUED)



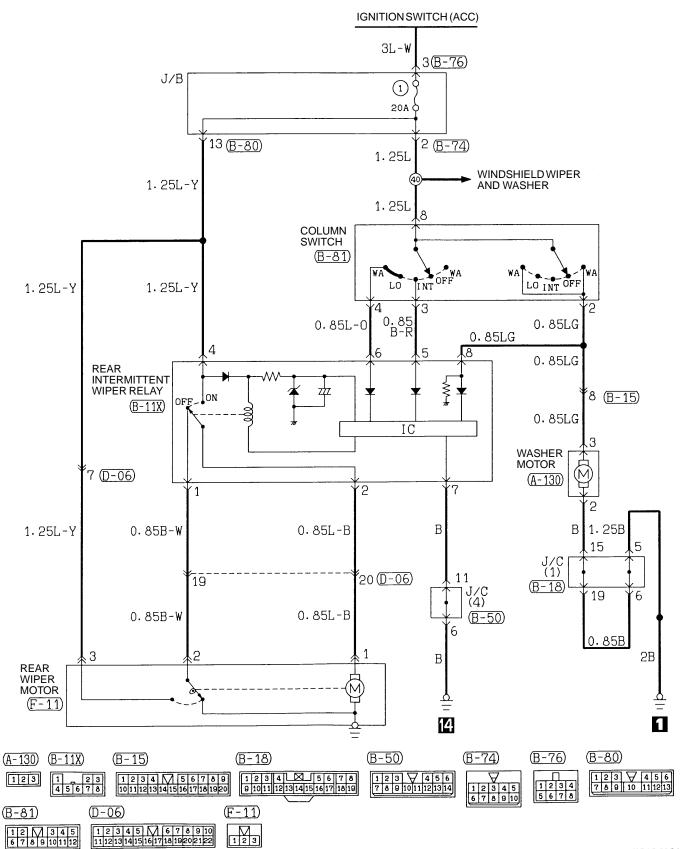
### NOTES

## WINDSHIELD WIPER AND WASHER <INTERMITTENT WIPER>



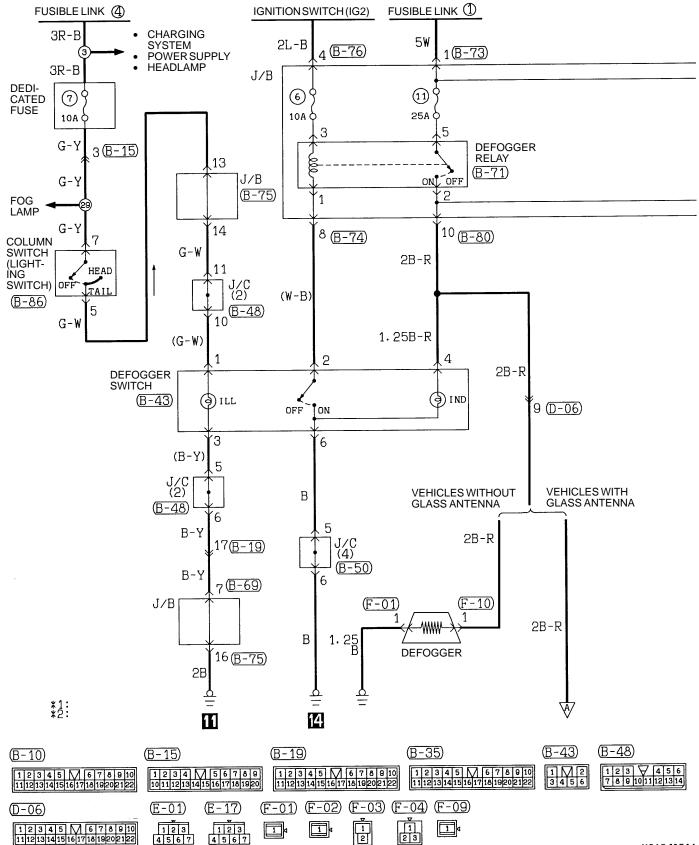
5678

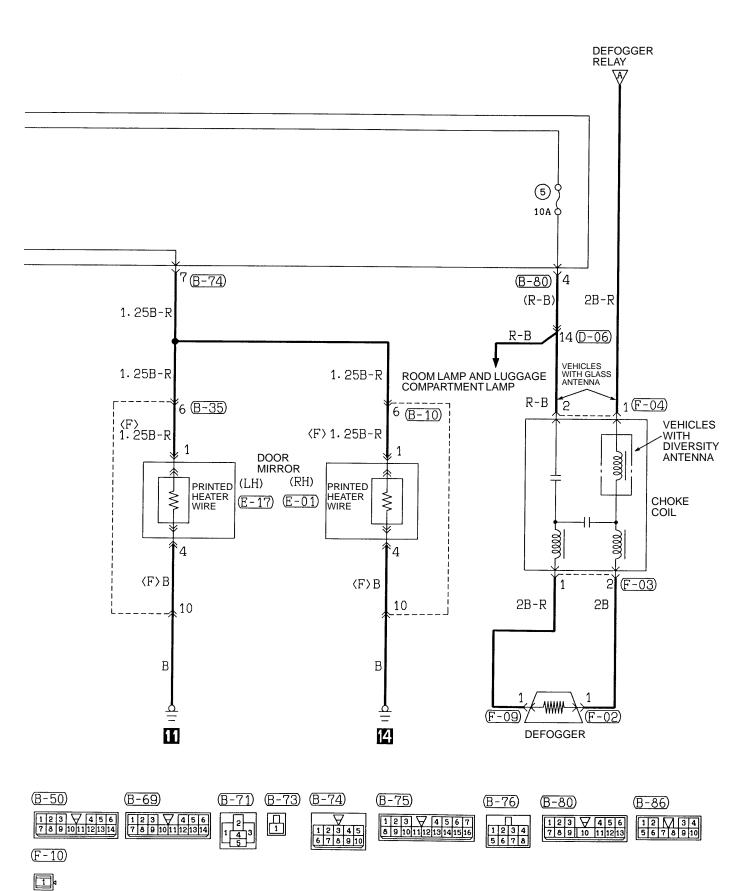
### **REAR WIPER AND WASHER**



HC13J03AA

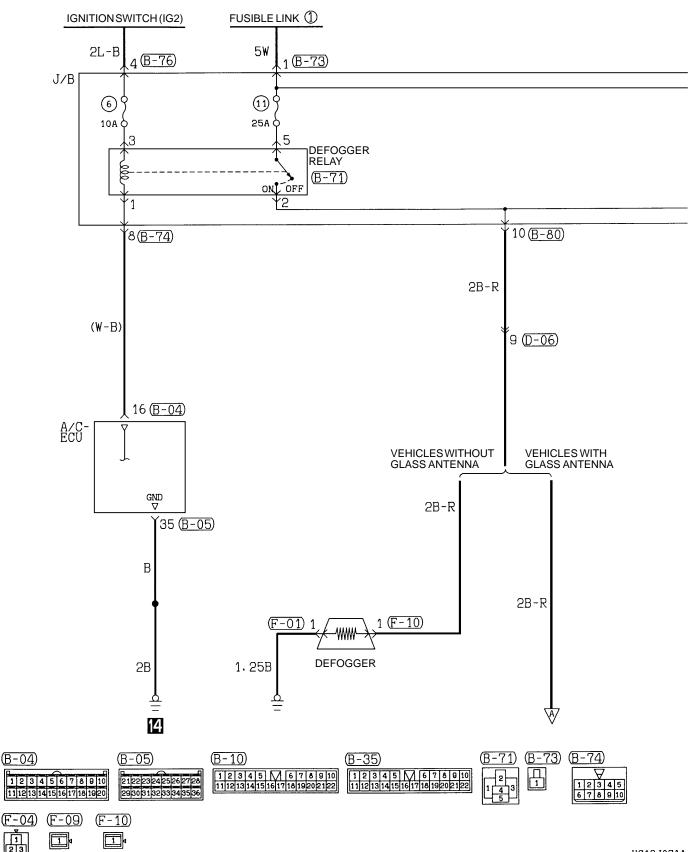
### DEFOGGER AND DOOR MIRROR HEATER <VEHICLES WITHOUT FULLY AUTOMATIC AIR CONDITIONER>

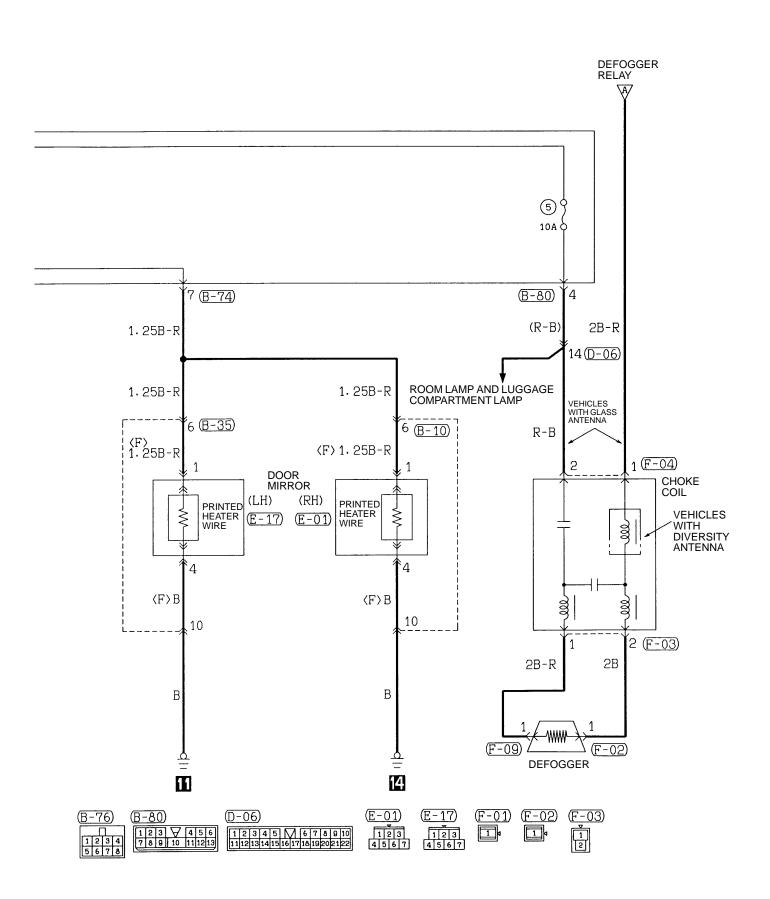




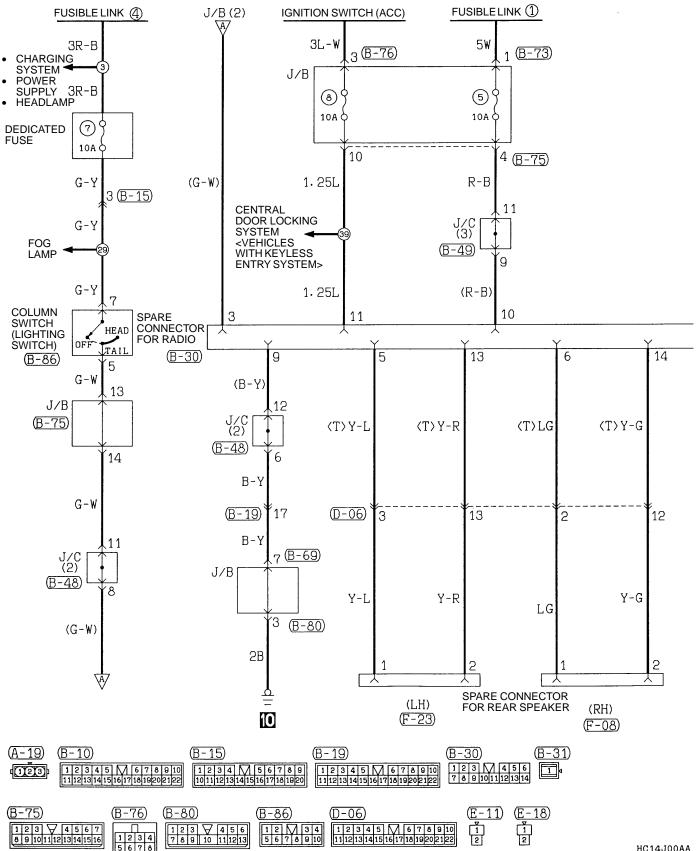
HC13J05AB

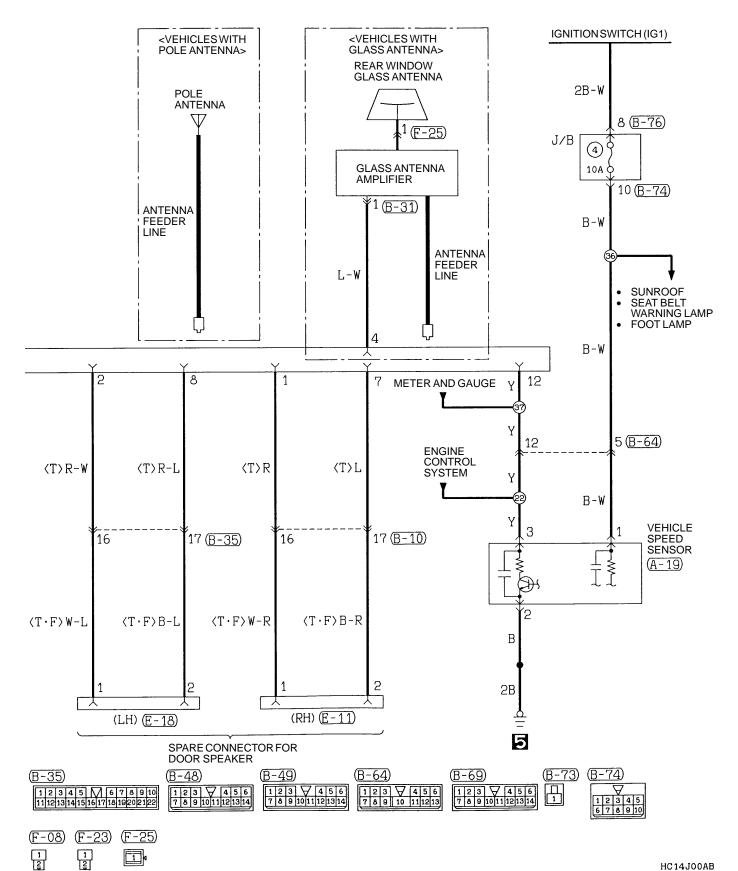
### DEFOGGER AND DOOR MIRROR HEATER <VEHICLES WITH FULLY AUTOMATIC AIR CONDITIONER>





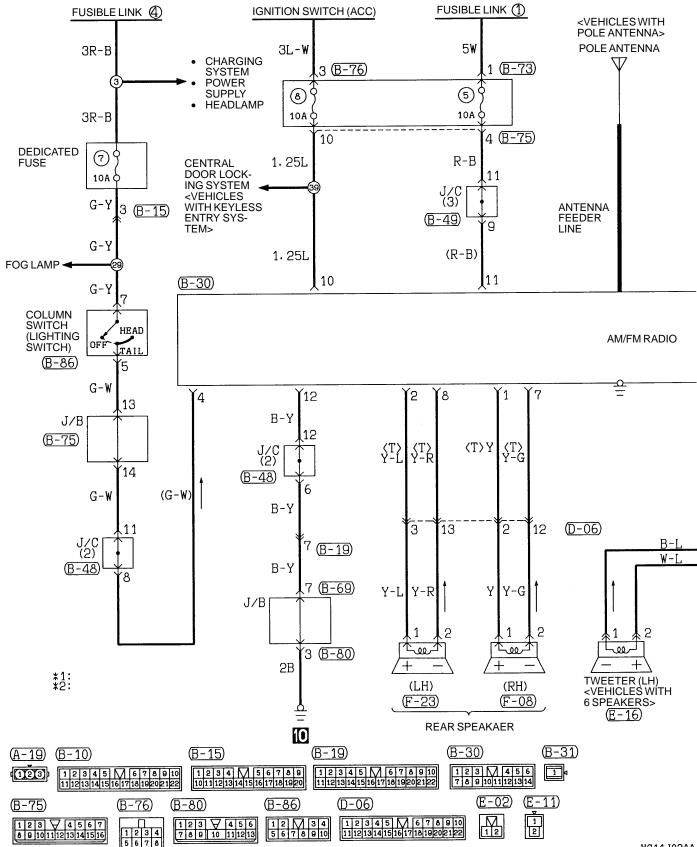
# SPARE CONNECTOR FOR RADIO

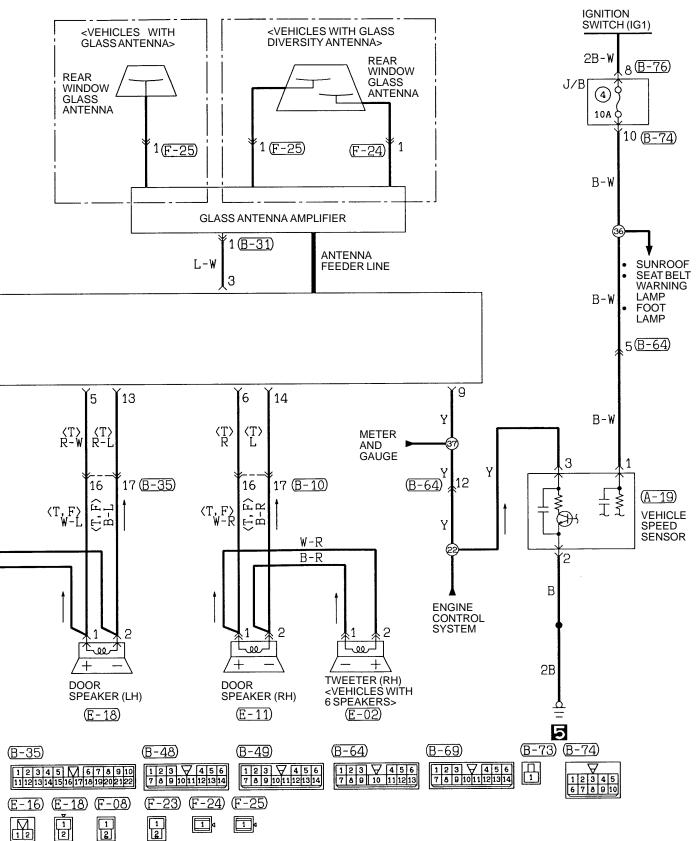




### RADIO <4-SPEAKER, 6-SPEAKER>

**B-80** 

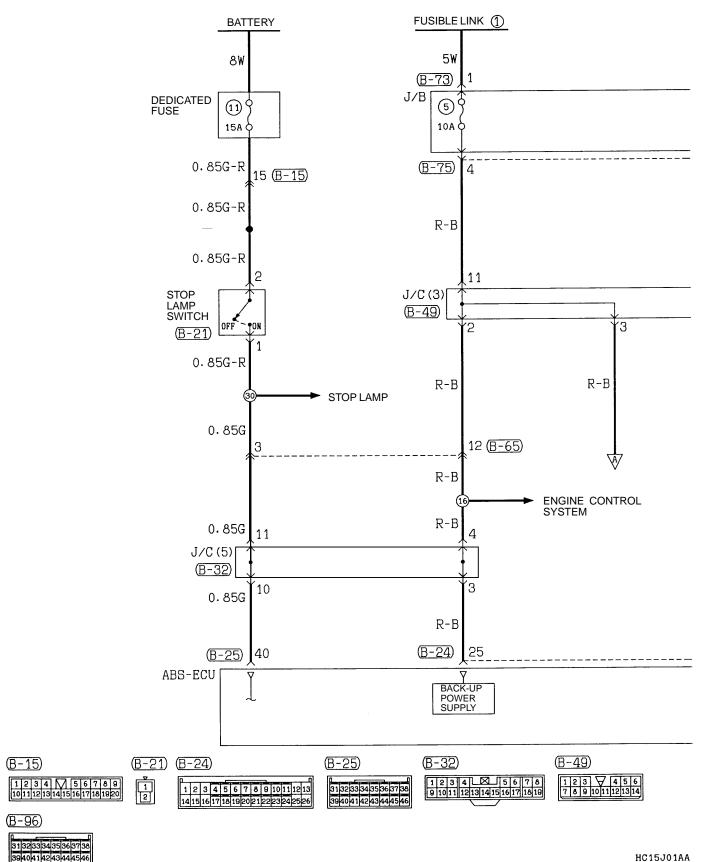


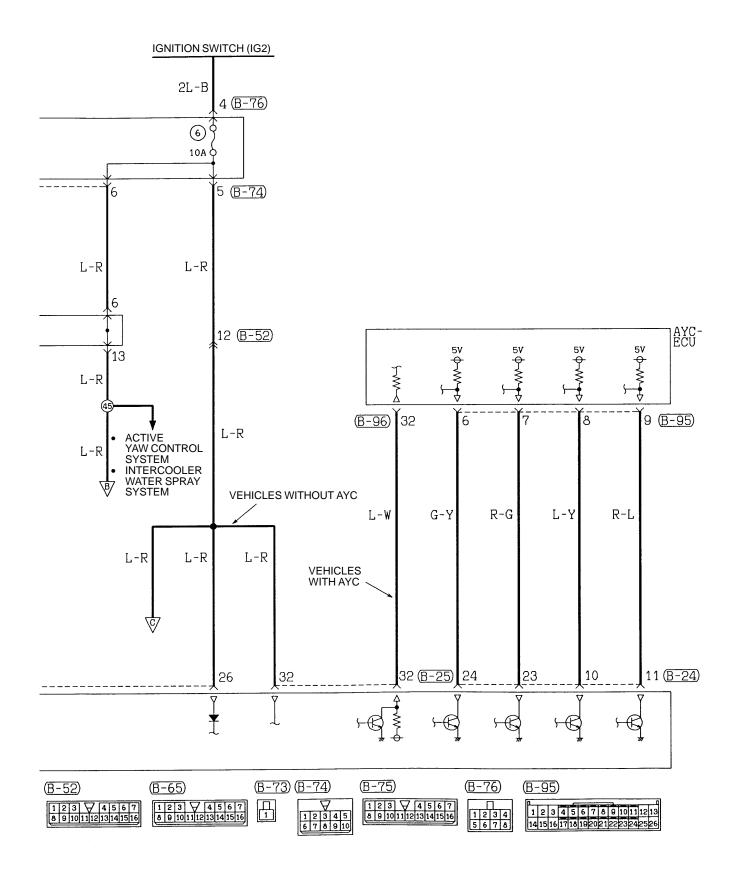


HC14J02AB

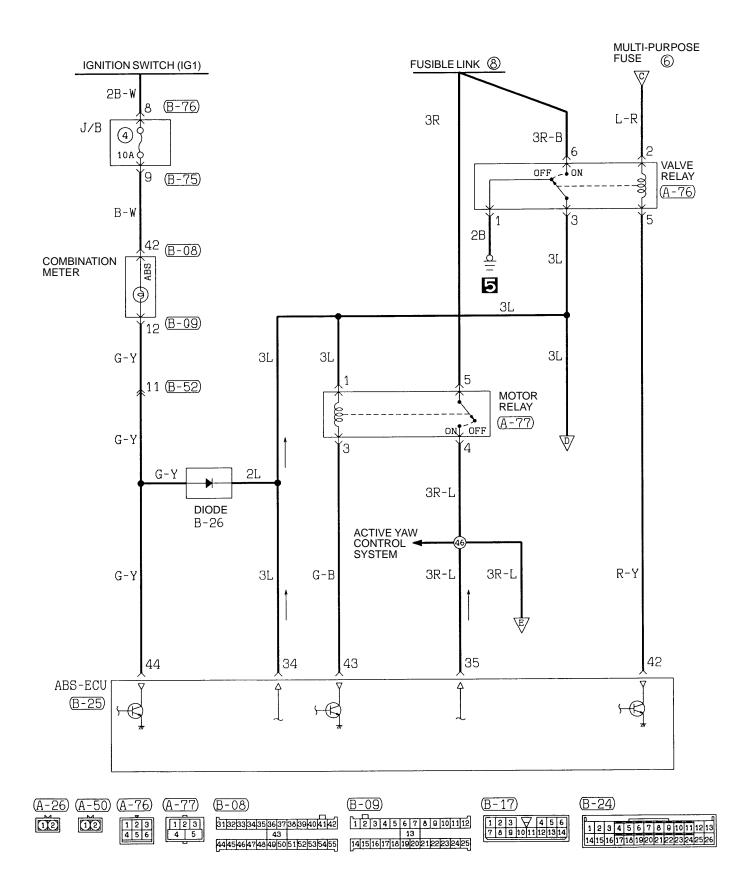
# ANTI-LOCK BRAKE SYSTEM (ABS)

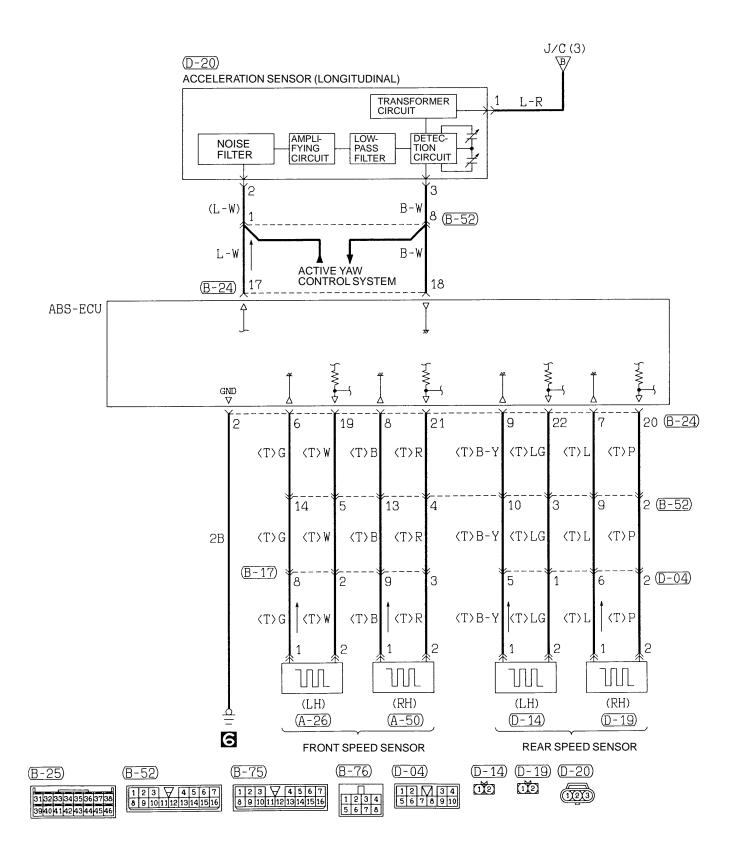
**B-82** 



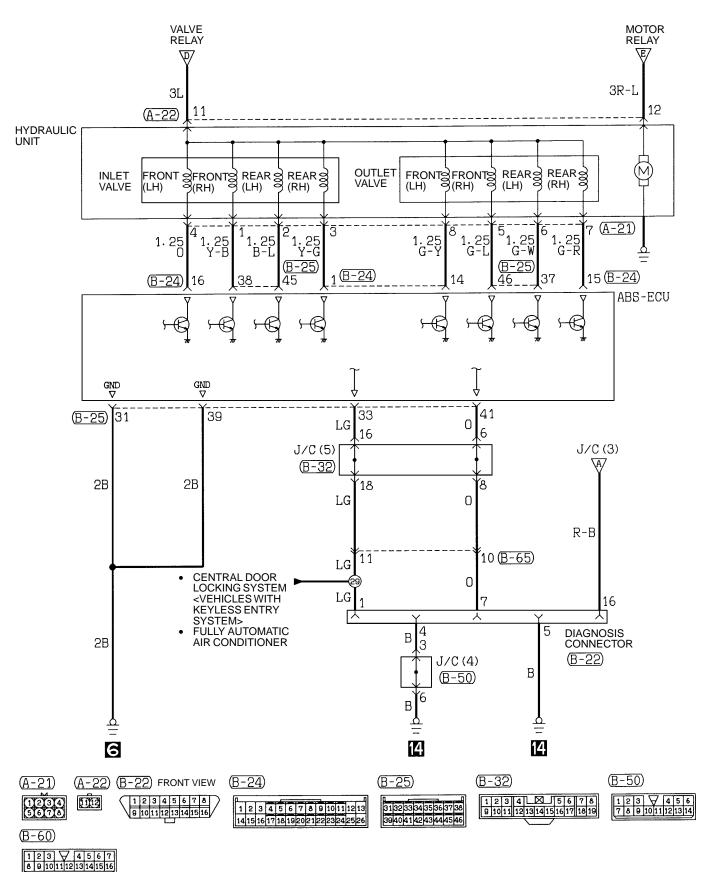


### ANTI-LOCK BRAKE SYSTEM (ABS) (CONTINUED)



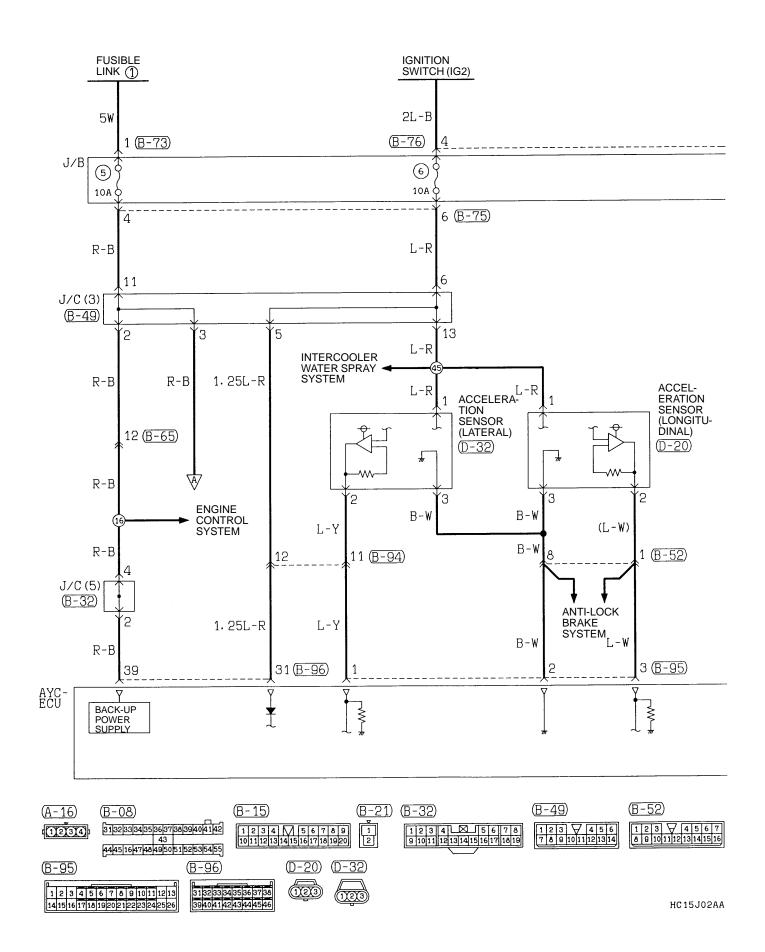


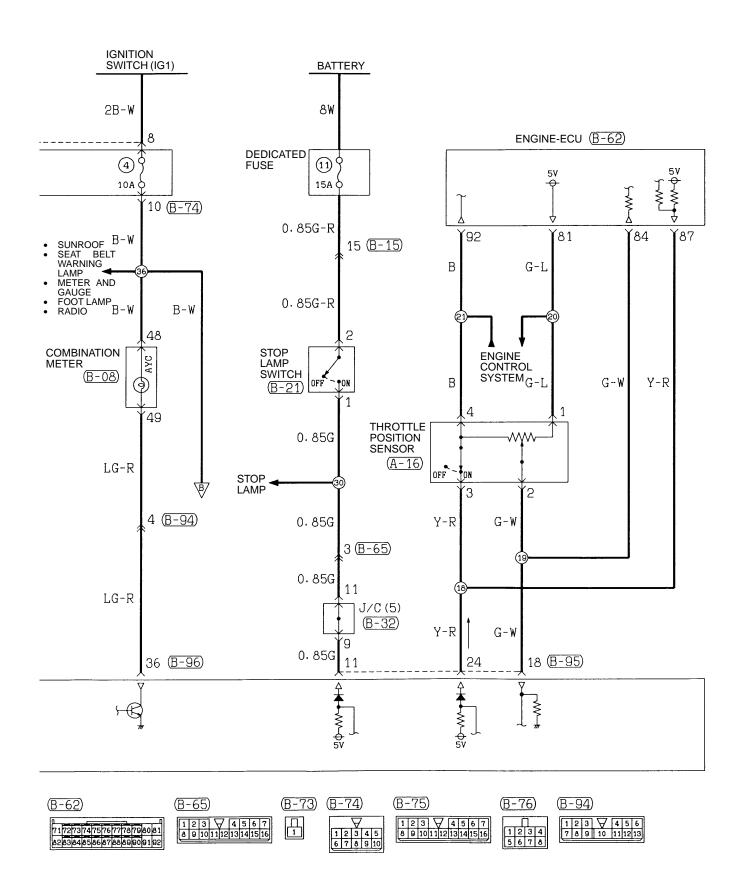
#### ANTI-LOCK BRAKE SYSTEM (ABS) (CONTINUED)



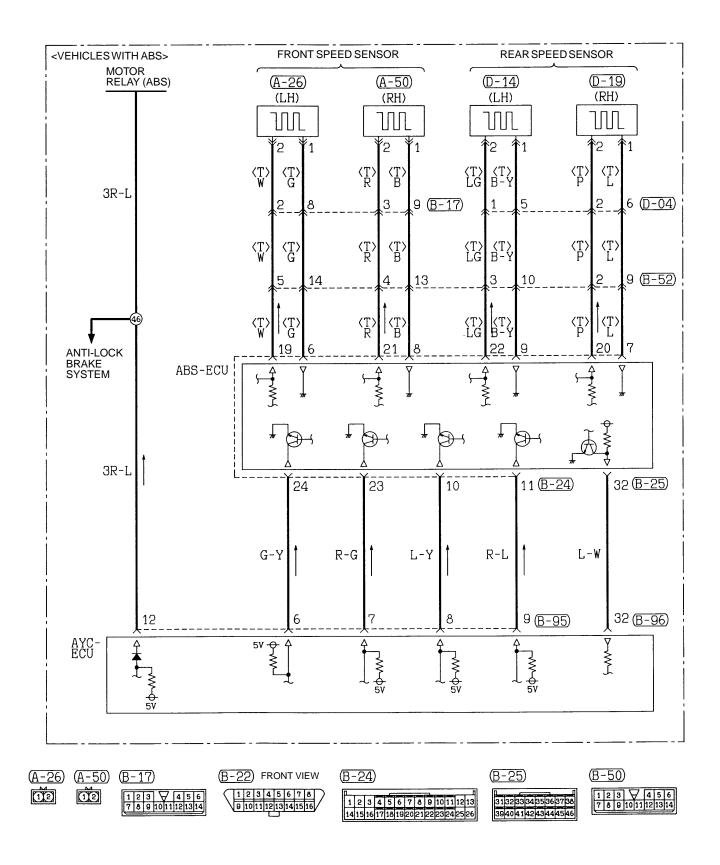
#### NOTES

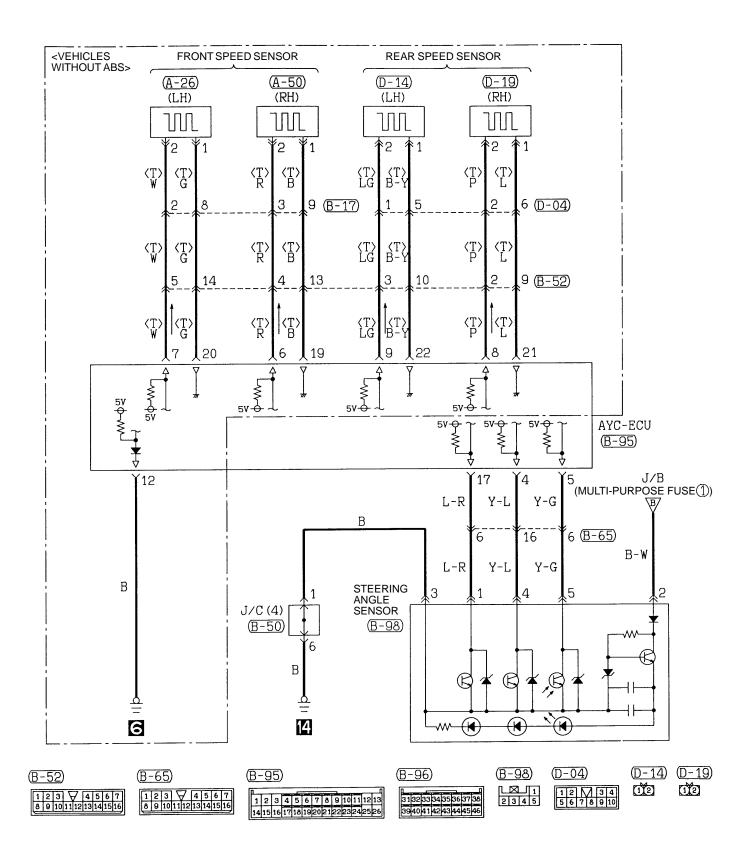
# ACTIVE YAW CONTROL SYSTEM (AYC)



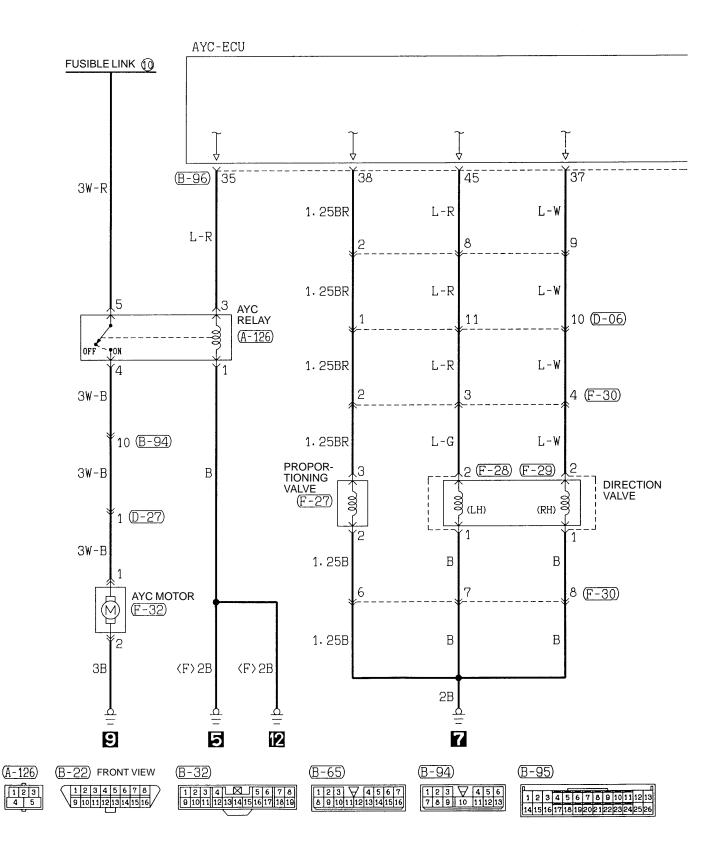


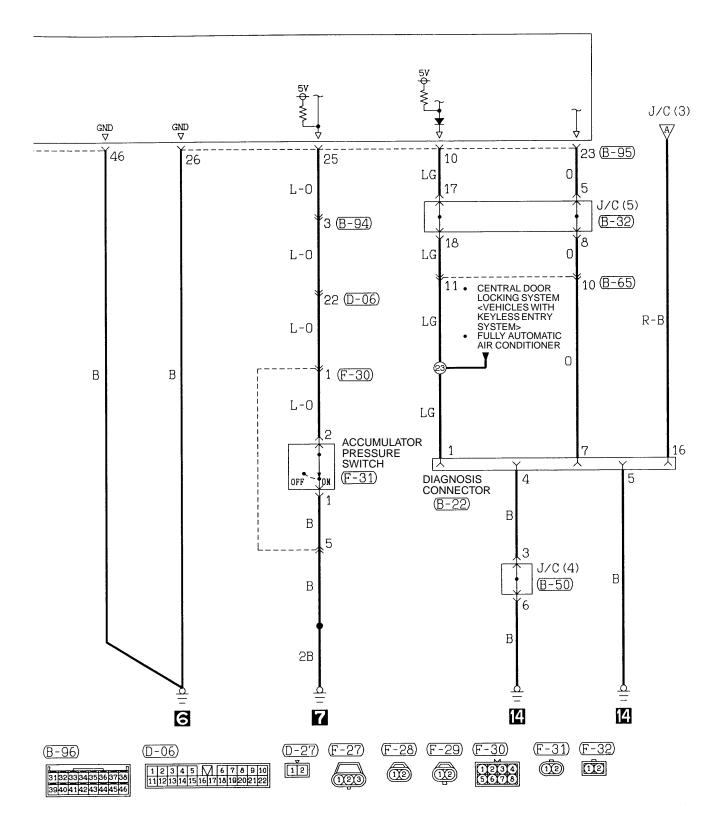
#### ACTIVE YAW CONTROL SYSTEM (AYC) (CONTINUED)





#### ACTIVE YAW CONTROL SYSTEM (AYC) (CONTINUED)





# INTERCOOLER WATER SPRAY SYSTEM

